ESO URANIUM CORP.

MIKWAM PROJECT

2006 Diamond Drilling Report

Appendix I: Drill Logs

Volume 1 of 3

2.33389

DETAILED LOG

Hole Number: **ESO 06 01**

Units: METRIC

Project Name:	New Project	Primary Coordinates	Grid: UTM:	Destination Coordinates	Grid: LOCAL:	Collar Dip:	-45.00
Project Number:	NEW	North:	5482788.00	North:		Collar Az:	10.00
Location:	Surface	East:	592322.00	East:		Length:	347.00
		Elev:	267.7	Elev:		Start Depth:	0.00
Date Started:	Mar 03, 2006	Collar Survey:	Y	Plugged:	N	Contractor:	Heath and Sherwood Drilling Inc.	Final Depth:	347.00
Date Completed:	Mar 08, 2006	Multishot Survey:	N	Hole Size:	BQ	Core Storage:	Mine Site		
		Pulse EM Survey:	N	Casing:	Left in Hole				

Comments:

Sample Averages

Survey Data

Depth	Azimuth Decimal	Dip Decimal	Test Type	Flag	Comments	Depth	Azimuth Decimal	Dip Decimal	Test Type	Flag	Comments
46.00	11.80	-43.80	ES	OK	mag field 5835 temp 7.3	**100.00**	6.60	-42.90	ES	OK	mag field 5683 temp 7.3
200.00	7.20	-42.90	ES	OK	mag field 5760 temp 8.0	**347.00**	9.80	-39.40	ES	OK	mag field 5794 temp 8.4

Detailed Lithology

From	To	Lithology
0	39.00	**OB, Overburden** Glacial Till with common boulders **MINOR INTERVALS:** **Minor Interval:** 0 - 39 OB, Overburden Common coarse material in upper part of hole . Into soft clayey material about 34-35 meters. Probable bedrock contact at 34-35 meters. NQ casing set to 39.

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm

Units: METRIC

Hole Number: **ESO 06 01**

Detailed Lithology

From	To	Lithology
39.00	87.30	**ARG, Argillite** Dark Gray to light gray fine grained argillite. The rock is composed primarily of fine grained quartz grains in a finer grained feldspar and amphibole matrix. The rock has been weakly but pervasively carbonitized. Calcite is present primarily in thin veinlets but also disseminated and in fine blebs. Some graphitic lenses occur as do some slightly coarser sandy/silty lenses.The unit is thinly bedded and cuts at 20 degrees from the core axis. The bedding shows commom soft sediment defirmation. The rock is mainly nonmagnetic but does have occasional weak magnetic response in weakly altered areas. Mineralization apperas limited to carbonitization, weak quartz veining and thin (x cm) zones of leaching. Minor amounts of pyrite apppear in the stronger carbonitized zones. **RQD** 39.00 - 41.00 : 100.00 % RQD 65.00 % Core 1.95 m recovered 41.00 - 44.00 : 100.00 % RQD 98.00 % Core 2.95 m recovered 44.00 - 47.00 : 100.00 % RQD 85.00 % Core 2.55 m recovered 47.00 - 50.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 50.00 - 53.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 53.00 - 56.00 : 100.00 % RQD 98.00 % Core 2.95 m recovered 56.00 - 59.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 59.00 - 62.00 : 100.00 % RQD 93.00 % Core 2.80 m recovered 62.00 - 65.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 65.00 - 68.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 68.00 - 71.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 71.00 - 74.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 74.00 - 77.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 77.00 - 80.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 80.00 - 83.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 83.00 - 86.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
73001	41.00	42.50	1.50				
73002	80.00	81.50	1.50				
73003	81.50	83.00	1.50				

Units: METRIC

Hole Number: **ESO 06 01**

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		RQD 86.00 - 89.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered **MINOR INTERVALS:** **Minor Interval:** 39.2 - 39.4 ARG, Argillite blocky clay zone **Texture** 39.20 - 39.40 : FG Fine Grained very fine grained, thinly bedded **Structure** 39.20 - 39.40 bedding angle cuts the core at 15 -20* to core axis **Minor Interval:** 41 - 42 ARG, Argillite Zone of slightly stronger carbonitization. The zone has irregular shaped coarse (2-3 mm) patches of fine grained pyrite. Total % of pyrite ib the zone is 1-2%. **Texture** 41.00 - 42.00 : FG Fine Grained very fine grained **Alteration** 41.00 - 42.00 :CA Carbonate, Pervasiv Pervasive, PEV Weak weak carbonate in veinlets, blebs, and patches **Structure** 41.00 - 42.00 : BTT Thinly bedded, 0 Deg to CA very thinly bedded **Minor Interval:** 45 - 46 ARG, Argillite Zone of increased carbonate alteration. Weak quartz/ankerite veining follows bedding. Minor patches and blebs of quartz ankerite are present. **Alteration** 45.00 - 46.00 :CA Carbonate, Pervasiv Pervasive, PEV Weak weak ankerite/quartz veining **Minor Interval:** 46.95 - 47.15 ARG, Argillite minor ankerite / quartz paralleling bedding								

Units: METRIC

Hole Number: **ESO 06 01**

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 53.5 - 55.17 ARG, Argillite Zone o f increased quartz - carbonate veining. Most intense where quartz vein cuta at 54.65. The zone appears to terminate at a small fault uphole from 55.17 **Alteration** 53.50 - 55.17 :SI Silica, Pervasiv Pervasive, MOD Moderate 53.50 - 55.17 :CA Carbonate, Pervasiv Pervasive, PEV Weak **Structure** 53.50 - 55.17 weak quartz - carbonate veining terminated by a structure that cuts the core axis at ~ 45° **Minor Interval:** 55.48 - 55.54 ARG, Argillite IThin zone of leaching, Possible removal of CO3 **Minor Interval:** 62 - 84 ARG, Argillite Occasional zones of variable bleaching - carbonate? removal. Minor silica replacement. A couple of good examples between 82 -83 m. There is minor FeOx mainly along fractures but also weakly desseminated. This appears to be a lithology chemistry change, more mafic clays? **Alteration** 83.00 - 83.40 :SR Sericite, Pervasiv Pervasive, MOD Moderate Zone of weak sericitization between weakly iron stained intervals								
87.30	93.10	**FVOL, Felsic volcanic** Light gray fine grained felsic volcanic. The rock consists of primarily of quartz grains in a minimal matrix of fine feldspar and amphibole. The unit is weakly foliated which may represent poorly defined bedding. The foliation cuts the core axis at 20 degrees. The unit is nonmagnetic. Uphole and downhole contacts are graditional. The unit is weakly carbonitized with minor dessimenated calcite and even lesser amounts of ankerite. A trace of very fine grained dessimenated pyrite was seen. **Alteration** 87.30 - 93.10 :CA Carbonate, Pervasiv Pervasive, PEV Weak minor amounts of weakly dessimenated calcite/carbonate, very weak calcite veining parallel to bedding **Structure** 87.30 - 93.10 : BT Bedding, 20 Deg to CA Foliation or bedding visible but poorly defined, may represent a felsic tuff **RQD** 89.00 - 92.00 : 100.00 % RQD 98.00 % Core 2.95 m recovered 92.00 - 95.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered								

Hole Number: **ESO 06 01**

Units: METRIC

Detailed Lithology

From	To	Lithology
93.10	104.27	**ARG, Argillite** Light gray fine grained argillite. The rock is composed primarily of fine grained quartz grains in a finer grained feldspar and amphibole matrix. The rock has been weakly but pervasively carbonitized. The rock has been leached and silica has replaced carbonate. The rock has a spongy porous appearance. Some dark amphibole lenses occur as do some slightly coarser sandy/silty lenses.The unit is thinly bedded and cuts at 20 degrees from the core axis. The rock is nonmagnetic. Mineralization apperas limited to weak silicification and weak quartz veining and thin (x cm) silica replacement in zones of leaching. Minor amounts of fine grained euhedral pyrite, >1%, is dessiminated and weakly associated with the porous leached silica replaced zones. Intensity of leaching increases downhole as does silicification. Veining also increases with depth. Minor calcite veining is replaced with depth by silica. Silica increases and becomes more massive both in the veins and as a total replacement. **Texture** 93.10 - 104.27 : FG Fine Grained Top of the section is fine grained but becomes more massive with increasing silicification and depth **Alteration** 93.10 - 104.27 :SI Silica, Pervasiv Pervasive, MOD Moderate increasing silicification with depth. Near the top of the section the silica is replacing leached carbonate. Near the bottom of the section the silica replacement is near total. **RQD** 95.00 - 98.00 : 100.00 % RQD 87.00 % Core 2.60 m recovered 98.00 - 101.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 101.00 - 104.00 : 100.00 % RQD 100.00 % Core 3.0 M recovered 104.00 - 107.00 : 100.00 % RQD 98.00 % Core 2.95 m recovered

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
73004	94.00	95.60	1.60				
73006	95.60	97.00	1.40				
73007	97.00	98.50	1.50				
73008	98.50	100.00	1.50				
73009	100.00	101.50	1.50				
73010	101.50	103.00	1.50				
73011	103.00	104.00	1.00				
73012	104.00	105.50	1.50				

Units: METRIC

Hole Number: **ESO 06 01**

Detailed Lithology

From	To	Lithology
104.27	147.62	**QV, Quartz vein** The unit is composed primarily of quartz. Some intervals of probable argillite with apparent bedding have been totally replaced by silica. Other intervals are massive white quartz which may be veining or total silica replacement. Several generations of quartz, quartz/sulfide, and quartz/carbonate/ sulfide veining were identified. Veining cuts the core at a wide variety of angles. There is no magnetic response. Alteration consists of massive silica flooding with minor carbonate and common pyrite.. Pyrite content exceeds 20% over thin intervals. Accessory arsenopyrite was identified **RQD** 107.00 - 110.00 : 100.00 % RQD 99.00 % Core 2.96 m recovered 110.00 - 113.00 : 100.00 % RQD 99.00 % Core 2.96 m recovered 113.00 - 116.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 116.00 - 119.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 119.00 - 122.00 : 100.00 % RQD 98.00 % Core 2.96 m recovered 122.00 - 125.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 125.00 - 128.00 : 100.00 % RQD 98.00 % Core 2.94 m recovered 128.00 - 131.00 : 100.00 % RQD 95.00 % Core 2.85 m recovered 131.00 - 134.00 : 100.00 % RQD 97.00 % Core 2.92 m recovered 134.00 - 137.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 137.00 - 140.00 : 100.00 % RQD 98.00 % Core 2.90 m recovered 140.00 - 143.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 143.00 - 146.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 146.00 - 149.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
73013	105.50	107.00	1.50				
73014	107.00	108.50	1.50				
73016	108.50	110.00	1.50				
73017	110.00	111.50	1.50				
73018	111.50	113.00	1.50				
73019	113.00	114.00	1.00				
73020	114.00	115.00	1.00				
73021	115.00	116.00	1.00				
73022	116.00	117.00	1.00				
73023	117.00	118.00	1.00				
73024	118.00	119.00	1.00				
73026	119.00	120.00	1.00				
73027	120.00	121.50	1.50				
73028	121.50	123.00	1.50				
73029	123.00	124.00	1.00				
73030	124.00	125.00	1.00				
73031	125.00	126.00	1.00				
73032	126.00	127.00	1.00				
73033	127.00	128.00	1.00				
73034	128.00	129.00	1.00				
73036	129.00	130.00	1.00				
73037	130.00	131.00	1.00				
73038	131.00	132.00	1.00				
73039	132.00	133.00	1.00				
73040	133.00	134.00	1.00				
73041	134.00	135.50	1.50				
73042	135.50	137.00	1.50				
73043	137.00	138.50	1.50				
73044	138.50	140.00	1.50				
73046	140.00	141.00	1.00				
73047	141.00	141.88	0.88				
73048	141.88	143.00	1.12				
73049	143.00	144.50	1.50				
73050	144.50	146.00	1.50				
73051	146.00	147.62	1.62				

Units: METRIC

Hole Number: **ESO 06 01**

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 104.27 - 114.9 QV, Quartz vein Massive quartz replacement. Predominately amorphous white quartz containing thin layers of black amphibole which form a foliation that mocks the bedding. Sulfide content is low, commonly 1-2%. Sulfide is primarily fine grained blebs and patches of finely crystalline pyrite with rare crystals of arsenopyrite. Ankerite is present in trace amounts, **Mineralization** 104.27 - 114.90 : PY Pyrite, Blb Blebs, 2% fine grained pyrite in blebs and paatches 104.27 - 114.90 : ASP Arsenopyrite, Diss Disseminated, 0.25% very fine grained 104.27 - 114.90 : CA Carbonate, Vein Vein, 1% ankerite in late quartz/carbonate veining **Alteration** 104.27 - 114.90 :CA Carbonate, FC Fracture Controlled, PEV Weak weak ankerite in late qtz/carbonate veining 104.27 - 114.90 :SI Silica, Pervasiv Pervasive, INT Intense massive silica replacement **Structure** 104.27 - 114.90 : FOL Foliated, 20 Deg to CA relic amphibole mocks bedding **Minor Interval:** 114.9 - 117.9 QV, Quartz vein Massive white quartz with 15-20% sulfide. Minor zones of black amphibole. Sulfides dominate the visual. **Mineralization** 114.90 - 117.90 : PY Pyrite, Blb Blebs, 5% Fine grained euhedral pyrite 114.90 - 117.90 : PY Pyrite, Diss Disseminated, 5% Fine grained euhedral pyrite 114.90 - 117.90 : PY Pyrite, Len Lenses, 10% Fine grained euhedral pyrite 114.90 - 117.90 : ASP Arsenopyrite, Diss Disseminated, 0.5% fine grained, associated with pyrite 114.90 - 117.90 : SPH Sphalerite, Diss Disseminated, 0.5% red brown to honey colored, some blebs								

Units: METRIC

Hole Number: **ESO 06 01**

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 117.9 - 119.55 QV, Quartz vein Massive quartz replacement. Predominately amorphous white quartz containing thin layers of black amphibole which form a foliation that mocks the bedding. Sulfide content is lower, commonly 5%-8%. Sulfide is primarily fine grained blebs and patches of finely crystalline pyrite with rare crystals of arsenopyrite. **Mineralization** 117.90 - 119.55 : PY Pyrite, Diss Disseminated, 2% sulfide content much lower **Alteration** 117.90 - 119.55 :SI Silica, Pervasiv Pervasive, STG Strong silicification weakens and fine bedded (argillite?) fabric comes back **Minor Interval:** 119.55 - 124 ARG, Argillite Very silicified argillite. The lense consists of very fine grained to amorphous silica with common amphibole mocking bedding. Bedding foliation cuts at 40*-45* to core axis. Silicification is still strong. Thr lense has 7%-8% sulfide that is fairly uniformally distributed. The sulfide forms small clots rather than being widely disseminated. Sulfides consist primarily of pyrite with a trace of arsenopyrite. **Mineralization** 119.55 - 124.00 : ASP Arsenopyrite, Diss Disseminated, 0.05% trace very fine grained disseminated 119.55 - 124.00 : PY Pyrite, Blb Blebs, 7% commonly in blebs **Alteration** 119.55 - 124.00 :SI Silica, Pervasiv Pervasive, STG Strong strong but not as complete total replacement as before								

Hole Number: **ESO 06 01**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 124 - 129 QV, Quartz vein Massive quartz replacement. Predominately amorphous white quartz. Sulfide content is high, commonly 15-25%. Sulfide is primarily fine grained blebs, patches, and bands of finely crystalline pyrite with crystals of arsenopyrite. Sphalerite is seen in small brown blebs. Very minor chalcopyrite with the pyrite. Lower contact is graditional grading back into a lower sulfide content massive white quartz **Mineralization** 124.00 - 129.00 : PY Pyrite, Blb Blebs, 12% 124.00 - 129.00 : ASP Arsenopyrite, Diss Disseminated, 1% 124.00 - 129.00 very fine grained, mixed with pyrite 124.00 - 129.00 : PY Pyrite, Diss Disseminated, 8% 124.00 - 129.00 : SPH Sphalerite, Diss Disseminated, 0.05% brown very fine grained **Alteration** 124.00 - 129.00 :S Sulphide, Pervasiv Pervasive, STG Strong 124.00 - 129.00 :SI Silica, Pervasiv Pervasive, INT Intense **Minor Interval:** 129 - 131 ARG, Argillite Very silicified argillite. The lense consists of very fine grained to amorphous silica with common amphibole mocking bedding. Amphibole is massive near the center of the section. Bedding foliation cuts at 40*-45* to core axis. Some chlorite os present but is pitted and partially adsorbed. Silicification is still strong. Thr lense has 5%-6% sulfide that is fairly uniformally distributed. The sulfide is widely disseminated. Sulfides consist primarily of pyrite with a trrace of arsenopyrite. The bottom contact is sharp at a faulted, brecciated, resilicified zone								

Hole Number: **ESO 06 01**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 131 - 133 BX, Breccia Coarse breccia of the massive quartz replacement. Predominately amorphous white quartz brecciated with sulfide filling the fractures. Near the top of the section the breccia is poorly cenented (reactivated?). The breccia coarsens with depth. Sulfide content is high, commonly 15-25%. Sulfide is primarily fine grained blebs, patches, and bands of finely crystalline pyrite with crystals of arsenopyrite.as mixed with pyrite Sphalerite is seen in small brown blebs. Very minor chalcopyrite mixed with the pyrite **Texture** 131.00 - 133.00 : B Breccia coarsens with depth **Mineralization** 131.00 - 133.00 : CP Chalcopyrite, Diss Disseminated, 0.05% mixed with pirite 131.00 - 133.00 : PY Pyrite, Diss Disseminated, 5% 131.00 - 133.00 : ASP Arsenopyrite, Diss Disseminated, 0.5% mixed with pyrite 131.00 - 133.00 : PY Pyrite, Blb Blebs, 10% **Alteration** 131.00 - 133.00 :S Sulphide, Pervasiv Pervasive, STG Strong 131.00 - 133.00 :SI Silica, Pervasiv Pervasive, STG Strong **Structure** 131.00 - 133.00 : FZ Fault, 90 Deg to CA high angle contact **Minor Interval:** 133 - 134.6 QV, Quartz vein Massive quartz replacement. Predominately amorphous white quartz. Whispy ankerite mocks bedding. Minor fuchsite is associated with the ankerite. Sulfide content is moderate, commonly 5%-10%. Sulfide is primarily fine grained blebs, patches, and bands of finely crystalline pyrite with crystals of arsenopyrite. Lower contact is sharp into next unit. **Mineralization** 133.00 - 134.60 : ASP Arsenopyrite, Diss Disseminated, 0.05% 133.00 - 134.60 : PY Pyrite, Diss Disseminated, 2% 133.00 - 134.60 : PY Pyrite, Blb Blebs, 5% **Alteration** 133.00 - 134.60 :S Sulphide, Pervasiv Pervasive, MOD Moderate 133.00 - 134.60 :SI Silica, Pervasiv Pervasive, STG Strong 133.00 - 134.60 :CA Carbonate, Pervasiv Pervasive, MOD Moderate whispy ankerite 133.00 - 134.60 :F Fuchsite, Pervasiv Pervasive, PEV Weak associated with ankerite							

Hole Number: **ESO 06 01**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 134.6 - 138.32 APL, Aplite Fine grsained tan to off white apalite dike. The unit consists of clear quartz eyes in a matrix of sericite and lesser amphibole. The unit has been carbonitized and has common whispy ankerite. The ankerite is with the amphibole and forms a weak fabric that cuts the core at about 40* from the core axis. The unit has been silicified in addition to the carbonic alteration. Sulfidization is weak, up to 3%, with pyrite forming irregular clasts **Mineralization** 134.60 - 138.32 : PY Pyrite, Clst Clasts, 3% **Alteration** 134.60 - 138.32 :CA Carbonate, Pervasiv Pervasive, MOD Moderate whispy ankerite 134.60 - 138.32 :SI Silica, Pervasiv Pervasive, MOD Moderate **Minor Interval:** 138.32 - 141.88 QV, Quartz vein Massive quartz replacement. Predominately amorphous white quartz. Whispy ankerite mocks bedding. Fuchsite is a minor accessory mineral associated with the ankerite. Sulfide content is moderate, commonly 5%-10%. Sulfide is primarily fine grained blebs, patches, and bands of finely crystalline pyrite. Lower contact is sharp into next unit. **Mineralization** 138.32 - 141.88 : CA Carbonate, Len Lenses, 5% whispy ankerite 138.32 - 141.88 : S Sulphide, Diss Disseminated, 5% 138.32 - 141.88 : PY Pyrite, Blb Blebs, 5% **Alteration** 138.32 - 141.88 :F Fuchsite, FC Fracture Controlled, PEV Weak associated with ankerite **Minor Interval:** 141.88 - 147.62 ARG, Argillite Dark gray to black fine grained silicified argillite. The unit consists of very fine grained to amorphous silica with common amphibole mocking bedding. Bedding foliation cuts at 40*-45* to core axis. Silicification is still strong. Graphitic slicks along fractures are common. . Thr lense has 7%-8% sulfide that is distributed. in concentrated bands and dessimenated. The sulfide forms small clots rather than being widely disseminated. Sulfides consist primarily of pyrite with possible sphalerite and and a few grains tentative bornite. This may represent a wall rock fragment in the zone **Mineralization** 141.88 - 147.62 : PY Pyrite, Blb Blebs, 5% blebs seem to concentrate in fold noses **Alteration** 141.88 - 147.62 :SI Silica, Pervasiv Pervasive, MOD Moderate 141.88 - 147.62 :SI Silica, FC Fracture Controlled, MOD Moderate common veining								

Hole Number: **ESO 06 01**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
147.62	152.80	**FVOL, Felsic volcanic** Light gray fine grained felsic volcanic. The rock consists of primarily of quartz grains in a matrix of fine feldspar and ankerite. It appears the ankerite has replaced amphibole. The unit is weakly foliated which may represent bedding. The foliation cuts the core axis at 40 degrees. The unit is nonmagnetic. Uphole and downhole contacts are graditional. The unit is strongly carbonitized with abundant ankerite. Minor fuchsite is associated with the ankerite. Sulfide consists almost entirely of fine grained pyrite. **Mineralization** 147.62 - 152.80 : PY Pyrite, Blb Blebs, 4% concentrated in fold noses? **Alteration** 147.62 - 152.80 :CA Carbonate, Pervasiv Pervasive, STG Strong ankerite replacing amphibole 147.62 - 152.80 :F Fuchsite, Pervasiv Pervasive, PEV Weak associated with ankerite 147.62 - 152.80 :S Sulphide, Pervasiv Pervasive, MOD Moderate mainly pyrite **RQD** 149.00 - 152.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 152.00 - 155.00 : 100.00 % RQD 98.00 % Core 2.95 m recovered **MINOR INTERVALS:** **Minor Interval:** 147.62 - 152.8 FVOL, Felsic volcanic **Texture** 147.62 - 152.80 : FG Fine Grained quartz eyes are coarsest with fine grained sericite and amphibole **Mineralization** 147.62 - 152.80 : PY Pyrite, SS Stringers, 2% very fine stringer, trace disseminated **Alteration** 147.62 - 152.80 :SR Sericite, Pervasiv Pervasive, STG Strong 147.62 - 152.80 :CA Carbonate, Pervasiv Pervasive, PEV Weak minor ankerite 147.62 - 152.80 :S Sulphide, FC Fracture Controlled, PEV Weak	73052	147.62	148.50	0.88				
			73053	148.50	150.00	1.50				
			73054	150.00	151.50	1.50				
			73056	151.50	152.80	1.30				

Hole Number: **ESO 06 01**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
152.80	155.98	**ARG, Argillite** Dark gray to black fine grained argillite. This section is lighter colored and contains more silica than the previous argillic unit. The bedding fabric cuts at 40* - 45* from the core axis. Alteration is primarily quartz with minor carbonate. The quartz appears pervasive while the lesser carbonate appears as ankerite in common fine veining.Sulfide is primarily pyrite but minor fine grained arsenopyrite is also seen, Sulfide appear in or immediately adjacent to fine veining and minor gashes. **RQD** 155.00 - 158.00 : 99.00 % RQD 99.00 % Core 2.97 m recovered **MINOR INTERVALS:** **Minor Interval:** 152.8 - 155.98 ARG, Argillite Dark gray to black fine grained argillite. This section is lighter colored and contains more silica than the previous argillic unit. The bedding fabric cuts at 40* - 45* from the core axis. Alteration is primarily quartz with minor carbonate. The quartz appears pervasive while the lesser carbonate appears as ankerite in common fine veining.Sulfide is primarily pyrite but minor fine grained arsenopyrite is also seen, Sulfide appear in or immediately adjacent to fine veining and minor gashes. **Texture** 152.80 - 155.98 : FG Fine Grained **Mineralization** 152.80 - 155.98 : ASP Arsenopyrite, SS Stringers, 1% 152.80 - 155.98 : PY Pyrite, SS Stringers, 4% 152.80 - 155.98 : PY Pyrite, Diss Disseminated, 2% **Alteration** 152.80 - 155.98 :SI Silica, Pervasiv Pervasive, STG Strong 152.80 - 155.98 :CA Carbonate, FC Fracture Controlled, PEV Weak **Structure** 153.26 - 153.46 : FZ Fault, 40 Deg to CA Brecciated sulfidized fault zone	73057	152.80	153.26	0.46				
			73058	153.26	154.76	1.50				
			73059	154.76	156.46	1.70				

Hole Number: **ESO 06 01**

Units: METRIC

Detailed Lithology

From	To	Lithology
155.98	166.14	**QV, Quartz vein** Off white to light gray fine grained to massive quartz vein. Upper and lower contacts vary due to inclusion of wall rock (argillite). The vein is fairly massive with occasional blue gray quartz fragments floating in a quartz cabonate matrix. The amount of blue quartz increases with depth. A poorly defined fabric cuts the core at about 20* from the core axis. Ankerite with minor accompanying fuchsite is common. Sulfides are dominated by pyrite but arsenopyrite is common also. **RQD** 158.00 - 161.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 161.00 - 164.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 164.00 - 167.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered **MINOR INTERVALS:** **Minor Interval:** 155.98 - 166.14 QV, Quartz vein Off white to light gray fine grained to massive quartz vein. Upper and lower contacts vary due to inclusion of wall rock (argillite). The vein is fairly massive with occasional blue gray quartz fragments floating in a quartz cabonate matrix. The amount of blue quartz increases with depth. A poorly defined fabric cuts the core at about 20* from the core axis. Ankerite with minor accompanying fuchsite is common. Sulfides are dominated by pyrite but arsenopyrite is common also. **Texture** 155.98 - 166.14 : M Massive **Mineralization** 155.98 - 166.14 : ASP Arsenopyrite, Blb Blebs, 4% fine grained agglomerated to form clasts 155.98 - 166.14 : PY Pyrite, Blb Blebs, 5% fine grained agglomerated to form clasts 155.98 - 166.14 : CA Carbonate, Len Lenses, 10% fine grained whispy ankerite and in bands **Alteration** 155.98 - 166.14 :CA Carbonate, Pervasiv Pervasive, STG Strong ankerite with associated fuchsite 155.98 - 166.14 :SI Silica, Pervasiv Pervasive, INT Intense at least 2 ages of quartz veining 155.98 - 166.14 :F Fuchsite, Pervasiv Pervasive, PEV Weak associated with ankerite

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
73060	156.46	158.00	1.54				
73061	158.00	159.50	1.50				
73062	159.50	161.00	1.50				
73063	161.00	162.50	1.50				
73064	162.50	164.00	1.50				
73066	164.00	165.50	1.50				
73067	165.50	167.00	1.50				

Hole Number: **ESO 06 01**

Units: METRIC

Detailed Lithology

From	To	Lithology
166.14	246.50	**ARG, Argillite** Fine grained black to dark gray fine grained argillite. The rock is composed of fine grained amphibole The bedding fabric cuts the core at 40* - 45* to core axis. Alteration consists of both silicification, both pervasive and strong quartz veining and carbonate which seems primarily pervasive. Sulfide is mainly in bands but is also disseminated and associated with veining. Pyrite dominates the sulfides **RQD** 167.00 - 170.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 170.00 - 173.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 173.00 - 176.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 176.00 - 179.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 179.00 - 182.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 182.00 - 185.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 185.00 - 188.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 188.00 - 191.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 191.00 - 194.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 194.00 - 197.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 197.00 - 200.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 200.00 - 203.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 203.00 - 206.00 : 95.00 % RQD 100.00 % Core 2.9 m recovered 206.00 - 209.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 209.00 - 212.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 212.00 - 215.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 215.00 - 218.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 218.00 - 221.00 : 100.00 % RQD 98.00 % Core 2.94 m recovered

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
73068	167.00	168.50	1.50				
73069	168.50	170.00	1.50				
73070	170.00	171.50	1.50				
73071	171.50	173.00	1.50				
73072	173.00	174.50	1.50				
73073	174.50	176.00	1.50				
73074	176.00	177.50	1.50				
73076	177.50	179.00	1.50				
73077	179.00	180.50	1.50				
73078	186.85	187.50	0.65				
73079	187.50	189.00	1.50				
73080	189.00	190.50	1.50				
73081	190.50	192.00	1.50				
73082	192.00	193.50	1.50				
73083	193.50	195.00	1.50				
73084	195.00	196.50	1.50				
73086	196.50	198.00	1.50				
73087	198.00	198.90	0.90				
73088	198.90	200.00	1.10				
73089	200.00	201.00	1.00				
73090	201.00	202.00	1.00				
73091	202.00	203.00	1.00				
73092	203.00	204.00	1.00				
73093	204.00	205.19	1.19				
73094	205.19	206.50	1.31				
73096	206.50	208.00	1.50				
73097	208.00	209.50	1.50				
73098	209.50	211.00	1.50				
73099	211.00	212.50	1.50				
73100	212.50	214.00	1.50				
73101	223.00	224.00	1.00				
73102	224.00	225.00	1.00				
73103	225.00	226.50	1.50				
73104	226.50	228.00	1.50				
73106	228.00	229.50	1.50				
73107	229.50	231.00	1.50				
73108	231.00	232.50	1.50				
73109	232.50	234.00	1.50				
73110	234.00	235.50	1.50				
73111	235.50	237.00	1.50				
73112	237.00	238.65	1.65				
73113	238.65	239.30	0.65				

Hole Number: **ESO 06 01**

Units: METRIC

Detailed Lithology

From	To	Lithology
		RQD 221.00 - 224.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 224.00 - 227.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 227.00 - 230.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 230.00 - 233.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 233.00 - 236.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 236.00 - 239.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 239.00 - 242.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 242.00 - 245.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 245.00 - 248.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered **MINOR INTERVALS:** **Minor Interval:** 166.14 - 182.4 ARG, Argillite Fine grained black to dark gray fine grained argillite. The rock is composed of fine grained amphibole The bedding fabric cuts the core at 40° - 45° to core axis. Alteration consists of both silicification, both pervasive and strong quartz veining and carbonate which seems primarily pervasive. Sulfide is mainly in bands but is also disseminated and associated with veining. Pyrite dominates the sulfides **Texture** 166.14 - 182.40 : FG Fine Grained **Mineralization** 166.14 - 182.40 : PY Pyrite, Diss Disseminated, 1% 166.14 - 182.40 : PY Pyrite, Len Lenses, 3% 166.14 - 182.40 : PY Pyrite, SS Stringers, 2% **Alteration** 166.14 - 182.40 :SI Silica, FC Fracture Controlled, STG Strong Many stages of quartz veining 166.14 - 182.40 :CA Carbonate, Pervasiv Pervasive, PEV Weak **Structure** 166.14 - 182.40 : FOL Foliated, 45 Deg to CA 166.14 - 182.40

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
73114	239.30	239.90	0.60				
73116	239.90	241.00	1.10				
73117	241.00	242.00	1.00				
73118	242.00	243.00	1.00				
73119	243.00	244.00	1.00				
73120	244.00	245.50	1.50				
73121	245.50	246.50	1.00				

Hole Number: **ESO 06 01**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 182.4 - 184.95 ARG, Argillite Medium gray fine grained mudstone..Thinl but poorly bedded. Has moderate carbonitization with weak quatz veining. **Texture** 182.40 - 184.95 : FG Fine Grained **Alteration** 182.40 - 184.95 :CA Carbonate, Pervasiv Pervasive, PEV Weak 182.40 - 184.95 :CA Carbonate, FC Fracture Controlled, MOD Moderate 182.40 - 184.95 :SI Silica, FC Fracture Controlled, PEV Weak **Structure** 182.40 - 184.95 : BTM Bedding, medium, 40 Deg to CA **Minor Interval:** 184.95 - 186.85 ARG, Argillite Fine grained black to dark gray fine grained argillite. Both upper and lower contacts with the mudstone are graditional. The rock is composed of fine grained amphibole in a finer grained quartz and clay matrix The bedding fabric cuts the core at 40* - 45* to core axis. Alteration consists of both silicification and carbonitization, both pervasive and with fine quartz veining and quartz/carbonate veining. Pyrite is mainly in bands but is also disseminated and associated with veining. **Texture** 184.95 - 186.85 : FG Fine Grained **Mineralization** 184.95 - 186.85 : PY Pyrite, Len Lenses, 1% in fold noses 184.95 - 186.85 : PY Pyrite, Diss Disseminated, 1% fine grained euhedral **Alteration** 184.95 - 186.85 :CA Carbonate, Pervasiv Pervasive, PEV Weak 184.95 - 186.85 :SI Silica, Pervasiv Pervasive, MOD Moderate also veining, veins are boudined and highly folded								

Hole Number: **ESO 06 01**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 186.85 - 198.9 ARG, Argillite Most a medium to light gray fine grained mudstone with interbeds of argillite. The mudstone consists of minor amounts of fine grained amphibole with a silica matrix. It is very thinly bedded cutting to core axis at 40* to 45*. The rock has been carbonitized as well as silicified. Both alteration types intensify with depth. Strong quartz flooding follows bedding. Pyrite appears to concentrate around small quartz blebs. Amount of sulfide increases with depth The last half meter is very heavily quartz veined. **Texture** 186.85 - 198.90 : FG Fine Grained **Mineralization** 186.85 - 198.90 : PY Pyrite, Diss Disseminated, 0% **Alteration** 186.85 - 198.90 :CA Carbonate, Pervasiv Pervasive, MOD Moderate strength increases with depth 186.85 - 198.90 :SI Silica, Pervasiv Pervasive, STG Strong strength increases with depth **Structure** 186.85 - 198.90 : BTT Thinly bedded, 45 Deg to CA **Minor Interval:** 198.9 - 205.19 QV, Quartz vein White to blue gray fine grained quartz vein. Appears to be an early blue gray vein cut by a later quartz carbonate vein. Within the quartz carbonate are common angular clasts of the blue gray. The quartz/carbonate vein is composed of quartz/ankerite/pyrite. The blue gray vein is quartz with minimal sulfides. Uphole and downhole contacts are strongly altered and veined. **Mineralization** 198.90 - 205.19 : PY Pyrite, Blb Blebs, 5% **Minor Interval:** 205.19 - 214.1 ARG, Argillite Fine grained black to dark gray fine grained argillite. The rock is composed of fine grained amphibole The bedding fabric cuts the core at 40* - 45* to core axis. Alteration consists of both silicification, both pervasive and quartz veining and carbonate which seems primarily pervasive. Minor sulfide is mainly in bands but is also disseminated and associated with veining. Pyrite dominates the sulfides **Texture** 205.19 - 214.01 : FG Fine Grained **Mineralization** 205.19 - 214.01 : PY Pyrite, Diss Disseminated, 1% **Alteration** 205.19 - 214.01 :CA Carbonate, Pervasiv Pervasive, PEV Weak 205.19 - 214.01 :SI Silica, Pervasiv Pervasive, MOD Moderate common quartz veinlets without consistent orientation								

Hole Number: **ESO 06 01**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 214.1 - 214.25 QV, Quartz vein small quartz vein with minimal sulfide **Structure** 214.10 - 214.25 : FZ Fault, 15 Deg to CA small blocky section with quartz vein **Minor Interval:** 214.25 - 218.4 ARG, Argillite Fine grained black to dark gray fine grained argillite. The rock is composed of fine grained amphibole The bedding fabric cuts the core at 40* - 45* to core axis. Bedding and veining are both strongly crenulated. Fold nose? Alteration consists of both silicification, both pervasive and strong quartz veining and carbonate which seems primarily pervasive. Sulfide is mainly in bands but is also disseminated and associated with veining. Pyrite dominates the sulfides. **Minor Interval:** 218.4 - 218.72 ARG, Argillite Fine grained black to dark gray fine grained argillite. Zone is highly fractured and has quartz and quartz/carbonate filling gashs in the rock. **Minor Interval:** 218.72 - 223.5 ARG, Argillite Fine grained black to dark gray fine grained argillite. The rock is composed of fine grained amphibole The bedding fabric cuts the core at 40* - 45* to core axis. Alteration consists of both silicification, both pervasive and strong quartz veining and carbonate which seems primarily pervasive. There are thin intervals with strong quartz or quartz carbonate filled gashes. Sulfide is mainly in bands but is also disseminated and associated with veining. Pyrite dominates the sulfides **Minor Interval:** 223.5 - 223.8 ARG, Argillite Fine grained black to dark gray fine grained argillite. Zone is highly fractured and has quartz and quartz/carbonate filling gashs in the rock. Very disrupted zone. Strong quartz microveining **Minor Interval:** 223.8 - 227.6 ARG, Argillite Fine grained black to dark gray fine grained argillite. The rock is composed of fine grained amphibole The bedding fabric cuts the core at 40* - 45* to core axis. Alteration consists of both silicification, both pervasive and strong quartz veining and carbonate which seems primarily pervasive. Sulfide is mainly in bands but is also disseminated and associated with veining. Pyrite in bands dominates the sulfides. **Mineralization** 223.80 - 227.60 : PY Pyrite, Len Lenses, 2% **Alteration** 223.80 - 227.60 :CA Carbonate, Pervasiv Pervasive, MOD Moderate 223.80 - 227.60 :SI Silica, Pervasiv Pervasive, STG Strong								

Hole Number: **ESO 06 01**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 227.6 - 227.9 ARG, Argillite strong graphitic zone **Minor Interval:** 227.9 - 229.56 ARG, Argillite much finer grained, more massive bedding. Silica content and pyrite content increasing with depth. **Mineralization** 227.90 - 229.56 : PY Pyrite, Blb Blebs, 5% 227.90 - 229.56 : PY Pyrite, Diss Disseminated, 2% 227.90 - 229.56 : PY Pyrite, Vein Vein, 3% **Alteration** 227.90 - 229.56 :SI Silica, Pervasiv Pervasive, STG Strong **Minor Interval:** 229.56 - 238.65 ARG, Argillite Fine grained black to dark gray fine grained argillite. The rock is composed of fine grained amphibole The bedding fabric cuts the core at 40* - 45* to core axis. Alteration consists of both silicification, both pervasive and strong quartz veining and carbonate which seems primarily pervasive. Silicification and sulfide content are slowly increasing with depth. Sulfide is mainly in bands but is also in larg cubic clots of fine grained euhedral pyrite. Some pyrite is associated with veining. **Minor Interval:** 238.65 - 239.9 ARG, Argillite Fine grained black to dark gray fine grained argillite. The rock is composed of fine grained amphibole in a quartz and sulfide matrix The bedding fabric cuts the core at 40* - 45* to core axis. Alteration consists primarily of silicification and pyritization, Pyrite in banding mocking the bedding dominates but pyrite is nearly massive in spots. **Texture** 238.65 - 239.90 : FG Fine Grained **Mineralization** 238.65 - 239.90 : PY Pyrite, Perv Pervasive, 40% larger pyrite clots have a pea green mineral associated Chloritoid? **Alteration** 238.65 - 239.90 :SI Silica, Pervasiv Pervasive, STG Strong 238.65 - 239.90 :S Sulphide, Pervasiv Pervasive, STG Strong only pyrite identified								

Hole Number: **ESO 06 01**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 239.9 - 243.07 ARG, Argillite Black very fine grained mudstone. It is nearly massive but some bedding fabric exists. A few bedding planes are graphitic. Its porosity allowed the formation of large clots of pyrite and quartz. Some subrounded c;lots approach 2 cm in diameter. Gash veins are commonly filled with quartz with minor r no sulfide. **Mineralization** 239.90 - 243.07 : PY Pyrite, Pat Patches, 10% 239.90 - 243.07 : PY Pyrite, Blb Blebs, 5% **Alteration** 239.90 - 243.07 :SI Silica, Pervasiv Pervasive, STG Strong **Minor Interval:** 243.07 - 246.5 ARG, Argillite Black to dark gray fine grained argillite becoming increasingly disrupted / replaced by silica. Quartz veining / replacement is increasing. The lower limit is graditional into a quartz vein or total silica replacement.								
246.50	266.05	**CONG, Conglomerate** Medium to light gray fine to medium grained pebble conglomerate. Occasional pebbles to 3 cm supported in a mixed clay/sand matrix. Sand sized quartz grains are common. The rock contains minor amphibole. Bedding fabric cuts the ellipsoidal pebbles. There are occasional interbeds of argillite. Alteration is weak. Both contacts are graditional. Sulfide is limited to widely disseminated pyrite. **RQD** 248.00 - 251.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 251.00 - 254.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 254.00 - 257.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 257.00 - 260.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 260.00 - 263.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 263.00 - 266.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 266.00 - 269.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered **MINOR INTERVALS:** **Minor Interval:** 248.15 - 248.7 QV, Quartz vein white quartz vein cuts at 25* to core axis. minimal sulfide **Minor Interval:** 249.55 - 249.75 QV, Quartz vein white quartz vein cuts at 45* to core axis. minimal sulfide	73122	246.50	247.50	1.00				
			73123	247.50	248.50	1.00				
			73124	248.50	249.50	1.00				
			73126	249.50	250.50	1.00				

Hole Number: **ESO 06 01**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
266.05	281.60	**ARG, Argillite** Black to medium gray fine grained argillite. The rock is composed primarily of fine grained quartz grains in a finer grained feldspar and amphibole matrix. Some thin graphitic lenses occur as do some slightly coarser sandy/silty lenses.The unit is thinly bedded and cuts at 45 degrees from the core axis. The bedding shows commom soft sediment defirmation. The rock is nonmagnetic. Mineralization apperas limited to thin carbonitized zones and weak quartz veining. Minor amounts of pyrite are present. **RQD** 269.00 - 272.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 272.00 - 275.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 275.00 - 278.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 278.00 - 281.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 281.00 - 284.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered **MINOR INTERVALS:** **Minor Interval:** 269.5 - 270.55 ARG, Argillite Carbonate leached zone with added silica and pyrite **Mineralization** 269.50 - 270.55 : PY Pyrite, Blb Blebs, 5% 269.50 - 270.55 : PY Pyrite, Diss Disseminated, 2% **Alteration** 269.50 - 270.55 :CA Carbonate, Pervasiv Pervasive, STG Strong 269.50 - 270.55 :SI Silica, Pervasiv Pervasive, MOD Moderate 269.50 - 270.55 :S Sulphide, Pervasiv Pervasive, PEV Weak **Minor Interval:** 270.55 - 271.2 ARG, Argillite thin sandy layer. Weakly altered and pyritized. Increased porosity caused sulfide to disseminate rather than bleb up as in section above **Mineralization** 270.55 - 271.20 : PY Pyrite, Diss Disseminated, 5%	73127	269.00	270.50	1.50				
			73128	270.50	272.00	1.50				
			73129	272.00	273.50	1.50				
			73130	273.50	275.00	1.50				

Hole Number: **ESO 06 01**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
281.60	291.00	**WACKE, Wacke** Medium to light gray fine to medium grained wacke. The rock is composed of fine quartz grains in a white feldspathic matrix and sericite with minor amphibole. Bedding is coarse to massive. Contacts with argillite above and below are graditional. The rock is relatively unaltered. Sericite appears to be metamorphic. Minor pyrite is widely disseminated through the section **Mineralization** 281.60 - 291.00 : PY Pyrite, Diss Disseminated, 1% **RQD** 284.00 - 287.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 287.00 - 290.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 290.00 - 293.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered								
291.00	298.30	**ARG, Argillite** Black to light gray fine grained argillite with minor siltstone interbeds. The rock is composed primarily of fine grained quartz grains in a finer grained amphibole and feldspar matrix. The unit is thinly bedded and cuts at 45 degrees from the core axis. The rock is nonmagnetic. Mineralization is limited to tminor amounts of pyrite that is widely disseminated. Minor quartz, quartz/carbonate, and calcite veining exists.Quartz veining appears to be early. Calcite veining appears to be late. **RQD** 293.00 - 296.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 296.00 - 299.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered								
298.30	310.90	**ARG, Argillite** Black to medium gray fine grained argillite. The rock is composed primarily of fine grained quartz grains in a finer grained amphibole and feldspar matrix. The unit is thinly bedded and cuts from 45 degrees to the core axis to being nearly parallel to the core axis. The rock is very weakly magnetic to nonmagnetic. Mineralization appears limited to metamorphic pyrite and thin minor quartz veining. Minor amounts of pyrite are present. **RQD** 299.00 - 302.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 302.00 - 305.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 305.00 - 308.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 308.00 - 311.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered								

Hole Number: **ESO 06 01**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
310.90	315.90	**WACKE, Wacke** Black to darkgray fine to medium grained wacke. The rock is composed of fine amphibole grains in a fine quartz matrix. Bedding is coarse to massive. Contacts with argillite above and below are graditional. The rock appears relatively unaltered but has a weak pitted appearance. Minor pyrite is widely disseminated through the section. The section is cut by 2 late thin (-2mm) quartz feldspar magnetite pyrite veins not seen before. **RQD** 311.00 - 314.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 314.00 - 317.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered								

Hole Number: **ESO 06 01**

Units: METRIC

Detailed Lithology

From	To	Lithology
315.90	331.90	**ARG, Argillite** Black to medium gray fine grained argillite. The rock is composed primarily of fine grained quartz grains in a finer grained amphibole and feldspar matrix. The unit is thinly bedded and cuts from 45 degrees to the core axis.The rock is nonmagnetic. Mineralization is strong at the top of this section. See details. **RQD** 317.00 - 320.00 : 100.00 % RQD 93.00 % Core 2.8 m recovered 320.00 - 323.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 323.00 - 326.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 326.00 - 329.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 329.00 - 332.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered **MINOR INTERVALS:** **Minor Interval:** 315.9 - 317.2 ARG, Argillite Medium to light gray argillite. Bleached appearance indicate softer rock. Increased fissile texture is spots. White quartz veining common. **Mineralization** 315.90 - 317.20 : S Sulphide, Blb Blebs, 3% increased sulfide **Minor Interval:** 317.2 - 319 WACKE, Wacke Blocky massive interval. It has a leached pitted appearance. Minor sulfide is disseminated through the interval. **Mineralization** 317.20 - 319.00 : PY Pyrite, Diss Disseminated, 2%

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
73131	316.00	317.50	1.50				
73132	317.50	319.00	1.50				
73133	319.00	320.00	1.00				
73134	320.00	321.00	1.00				
73136	321.00	322.00	1.00				
73137	322.00	323.00	1.00				
73138	323.00	324.00	1.00				
73139	324.00	325.00	1.00				
73140	325.00	326.00	1.00				
73141	326.00	327.00	1.00				
73142	327.00	328.00	1.00				
73143	328.00	329.00	1.00				
73144	329.00	330.50	1.50				
73145	330.50	332.00	1.50				

Hole Number: **ESO 06 01**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 319 - 320.1 FZ, Fault zone Blocky gougey section. Fault? Zone has been filled by quartz veining portoins of which have been brecciated. Sulfide is associated with the quartz veining and as a replacement of the argillite. **Mineralization** 319.00 - 320.10 : PY Pyrite, Blb Blebs, 3% 319.00 - 320.10 : PY Pyrite, Pat Patches, 2% 319.00 - 320.10 : PY Pyrite, Diss Disseminated, 2% 319.00 - 320.10 : ASP Arsenopyrite, Blb Blebs, 1% coarse blebs at 320.9 **Structure** 319.00 - 320.10 : FZ Fault, 25 Deg to CA blocky gouge section. **Minor Interval:** 320.1 - 321.1 CQV, Quartz-carbonate vein White to light gray quartz carbonate vein. Strong ankerite, fuchsite, and pyrite. **Mineralization** 320.10 - 321.10 : PY Pyrite, Clst Clasts, 3% 320.10 - 321.10 : PY Pyrite, Blb Blebs, 2% **Alteration** 320.10 - 321.10 :CA Carbonate, Pervasiv Pervasive, STG Strong 320.10 - 321.10 :F Fuchsite, Pervasiv Pervasive, PEV Weak 320.10 - 321.10 :S Sulphide, Pervasiv Pervasive, MOD Moderate 320.10 - 321.10 :SI Silica, Pervasiv Pervasive, STG Strong **Minor Interval:** 321.1 - 323.3 ARG, Argillite Strongly altered zone between veins. Carbonitized, pyritized Presence of a green chloritoid? Unidentified mineral Elevated sulfide content, primarily pyrite **Mineralization** 321.10 - 323.30 : CA Carbonate, Blb Blebs, 70% 321.10 - 323.30 : PY Pyrite, Blb Blebs, 5% 321.10 - 323.30 : PY Pyrite, Len Lenses, 5% 321.10 - 323.30 : PY Pyrite, Diss Disseminated, 3% **Alteration** 321.10 - 323.30 :CA Carbonate, Pervasiv Pervasive, INT Intense								

Hole Number: **ESO 06 01**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 323.3 - 325.8 CQV, Quartz-carbonate vein Off white zone of quartz/carbonate veining and replacement. Has been strongly carbonitized with common ankerite, and pyrite. The green chloritoid mineral is present in a greater amount, possible green FeCO3? Quartz is leached with common pitting. Orange rusty streaks may be sphalerite. **Mineralization** 323.30 - 325.80 : PY Pyrite, Blb Blebs, 3% 323.30 - 325.80 : PY Pyrite, Len Lenses, 4% 323.30 - 325.80 : SPH Sphalerite, SS Stringers, 0.1% Orange, very fine grained, rusty looking streaks **Alteration** 323.30 - 325.80 :CA Carbonate, Pervasiv Pervasive, INT Intense 323.30 - 325.80 :S Sulphide, Pervasiv Pervasive, STG Strong **Minor Interval:** 325.8 - 327.67 WACKE, Wacke Medium to light gray fine to medium grained wacke. The rock is composed of fine quartz grains in a white feldspathic matrix and sericite with minor amphibole. Bedding is coarse to massive. Contacts with argillite above and below are graditional and thin interbeds are common The rock is relatively unaltered but is cut by quartz /carbonate veining near the bottom. Minor pyrite is widely disseminated.through the section **Minor Interval:** 327.67 - 328.28 CQV, Quartz-carbonate vein milky to tan fine grained quartz/carbonate. Two stages of veining are present with a later quartz/carbonate vein citting and including pieces of the earlier white quartz vein. Ankerite and iron carbonate are common near the top of the section but are missing in the white quartz section. Pyrite was the only sulfide identified. **Mineralization** 327.67 - 328.28 : CA Carbonate, Len Lenses, 10% 327.67 - 328.28 : PY Pyrite, Pat Patches, 5% 327.67 - 328.28 : PY Pyrite, Blb Blebs, 5% 327.67 - 328.28 : PY Pyrite, SS Stringers, 3% 327.67 - 328.28 : PY Pyrite, Mass Massive, 5% **Alteration** 327.67 - 328.28 :CA Carbonate, FC Fracture Controlled, STG Strong 327.67 - 328.28 :SI Silica, FC Fracture Controlled, STG Strong **Minor Interval:** 328.28 - 331.9 ARG, Argillite Interbedded argillite and wacke. Argillite dark gray, fine grained and thinly bedded. The wacke is light gray. fine grained, and relatively massive. The wacke has thin chert interbeds generally 1-2 mm in thickness. Both are weakly carbonitized and silicified. There is only minor pyrite.								

Hole Number: **ESO 06 01**

Units: METRIC

Detailed Lithology

From	To	Lithology
331.90	347.00	**FVOL, Felsic volcanic** Light gray to off white fine grained fessic volcanic. Most is very fine grained feldspar and sericite with minor amphibole. Some sections have thin units with identifible quartz eyes. The unit was very porous and is strongly carbonitized. Whispy bands of ankerite accompanied by a green iron carbonate? and fuchsite are common. Sulfide content is low. **RQD** 332.00 - 335.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 335.00 - 338.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 338.00 - 341.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 341.00 - 344.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 344.00 - 347.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
73146	332.00	333.50	1.50				

Samples

Sample Number	From	To	Au gpt	Ag ppm	Zn ppm	Cu ppm
Sample Type **ASSAY**						
73001	41.00	42.50				
73002	80.00	81.50				
73003	81.50	83.00				
73004	94.00	95.60				
73006	95.60	97.00				
73007	97.00	98.50				
73008	98.50	100.00				
73009	100.00	101.50				
73010	101.50	103.00				
73011	103.00	104.00				
73012	104.00	105.50				
73013	105.50	107.00				
73014	107.00	108.50				
73016	108.50	110.00				
73017	110.00	111.50				
73018	111.50	113.00				
73019	113.00	114.00				
73020	114.00	115.00				
73021	115.00	116.00				
73022	116.00	117.00				

Hole Number: **ESO 06 01**

Units: METRIC

Samples

Sample Number	From	To	Au gpt	Ag ppm	Zn ppm	Cu ppm
Sample Type **ASSAY**						
73023	117.00	118.00				
73024	118.00	119.00				
73026	119.00	120.00				
73027	120.00	121.50				
73028	121.50	123.00				
73029	123.00	124.00				
73030	124.00	125.00				
73031	125.00	126.00				
73032	126.00	127.00				
73033	127.00	128.00				
73034	128.00	129.00				
73036	129.00	130.00				
73037	130.00	131.00				
73038	131.00	132.00				
73039	132.00	133.00				
73040	133.00	134.00				
73041	134.00	135.50				
73042	135.50	137.00				
73043	137.00	138.50				
73044	138.50	140.00				
73046	140.00	141.00				
73047	141.00	141.88				
73048	141.88	143.00				
73049	143.00	144.50				
73050	144.50	146.00				
73051	146.00	147.62				
73052	147.62	148.50				
73053	148.50	150.00				
73054	150.00	151.50				
73056	151.50	152.80				
73057	152.80	153.26				
73058	153.26	154.76				
73059	154.76	156.46				
73060	156.46	158.00				
73061	158.00	159.50				
73062	159.50	161.00				
73063	161.00	162.50				
73064	162.50	164.00				

Hole Number: **ESO 06 01**

Units: METRIC

Samples

Sample Number	From	To	Au gpt	Ag ppm	Zn ppm	Cu ppm
Sample Type **ASSAY**						
73066	164.00	165.50				
73067	165.50	167.00				
73068	167.00	168.50				
73069	168.50	170.00				
73070	170.00	171.50				
73071	171.50	173.00				
73072	173.00	174.50				
73073	174.50	176.00				
73074	176.00	177.50				
73076	177.50	179.00				
73077	179.00	180.50				
73078	186.85	187.50				
73079	187.50	189.00				
73080	189.00	190.50				
73081	190.50	192.00				
73082	192.00	193.50				
73083	193.50	195.00				
73084	195.00	196.50				
73086	196.50	198.00				
73087	198.00	198.90				
73088	198.90	200.00				
73089	200.00	201.00				
73090	201.00	202.00				
73091	202.00	203.00				
73092	203.00	204.00				
73093	204.00	205.19				
73094	205.19	206.50				
73096	206.50	208.00				
73097	208.00	209.50				
73098	209.50	211.00				
73099	211.00	212.50				
73100	212.50	214.00				
73101	223.00	224.00				
73102	224.00	225.00				
73103	225.00	226.50				
73104	226.50	228.00				
73106	228.00	229.50				
73107	229.50	231.00				

Hole Number: **ESO 06 01**

Units: METRIC

Samples

Sample Number	From	To	Au gpt	Ag ppm	Zn ppm	Cu ppm
Sample Type **ASSAY**						
73108	231.00	232.50				
73109	232.50	234.00				
73110	234.00	235.50				
73111	235.50	237.00				
73112	237.00	238.65				
73113	238.65	239.30				
73114	239.30	239.90				
73116	239.90	241.00				
73117	241.00	242.00				
73118	242.00	243.00				
73119	243.00	244.00				
73120	244.00	245.50				
73121	245.50	246.50				
73122	246.50	247.50				
73123	247.50	248.50				
73124	248.50	249.50				
73126	249.50	250.50				
73127	269.00	270.50				
73128	270.50	272.00				
73129	272.00	273.50				
73130	273.50	275.00				
73131	316.00	317.50				
73132	317.50	319.00				
73133	319.00	320.00				
73134	320.00	321.00				
73136	321.00	322.00				
73137	322.00	323.00				
73138	323.00	324.00				
73139	324.00	325.00				
73140	325.00	326.00				
73141	326.00	327.00				
73142	327.00	328.00				
73143	328.00	329.00				
73144	329.00	330.50				
73145	330.50	332.00				
73146	332.00	333.50				

DETAILED LOG

Hole Number: **ESO-06-02**

Units: METRIC

Project Name:	Mikwam	Primary Coordinates	Grid: UTM:	Destination Coordinates	Grid: LOCAL:	Collar Dip:	-60.00
Project Number:	ESO06-MK	North:	5482787.00	North:		Collar Az:	7.00
Location:	Surface	East:	592321.00	East:		Length:	326.00
		Elev:	2677	Elev:		Start Depth:	0.00
Date Started:	Mar 08, 2006	Collar Survey: N	Plugged: N	Contractor:	Heath and Sherwood Drilling Inc.	Final Depth:	326.00
Date Completed:	Mar 12, 2006	Multishot Survey: N	Hole Size: BQ	Core Storage:	Mine Site		
		Pulse EM Survey: N	Casing: Left in Hole				

Comments: Same location as ESO-06-01
tip-up to -60*

Sample Averages

Survey Data

Depth	Azimuth Decimal	Dip Decimal	Test Type	Flag	Comments	Depth	Azimuth Decimal	Dip Decimal	Test Type	Flag	Comments
47.00	5.30	-56.80	ES	OK	cased to 39, mag field 6009	**100.00**	5.00	-54.10	ES	OK	mag field 5786
200.00	358.90	-48.60	ES	OK	mag field 6000	**302.00**	357.50	-43.80	ES	OK	mag field 5838

Detailed Lithology

From	To	Lithology
0	35.00	**OB, Overburden**
35.00	44.70	**WACKE, Wacke** Light gray fine grained wacke. The unit is primarily massive but does have some bedding. It also has some thin dark argillite interbeds. The unit is oxidized due to weathering and is very soft. Thin bands stained with heavy Feox cut at 45* to the core axis. Minor quartz veining also cuts the unit. Base of oxidization at the bottom of this interval Is it lithology change or oxidization state?. **RQD** 35.00 - 38.00 : 100.00 % RQD 80.00 % Core 2.4 m recovered 38.00 - 41.00 : 100.00 % RQD 93.00 % Core 2.8 m recovered 41.00 - 44.00 : 100.00 % RQD 97.00 % Core 2.9 m recovered 44.00 - 47.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm

Hole Number: **ESO-06-02**

Units: METRIC

Detailed Lithology

From	To	Lithology
44.70	55.24	**ARG, Argillite** Dark gray to light gray fine grained argillite. The rock is composed primarily of fine grained quartz grains in a finer grained amphibole and feldspar matrix. There are common wacke interbeds..The unit is thinly bedded and cuts at 20 to 45degrees from the core axis. The bedding shows commom soft sediment defirmation. The rock is nonmagnetic.The rock has been pervasively altered, intensly in some zones. Ankerite is common. Limited calcite is present, commonlydisseminated and in fine blebs. Silicification is intense. Mineralization appears as carbonitization, silicification, quartz/carbonate veining and thin (x cm) zones of leaching. Sericite is common. Are we seeing a potassic alteration event? Pyrite apppears in the stronger silicified zones. Strong alteration/mineralization starts about 49.75 m. **Mineralization** 44.70 - 55.24 : PY Pyrite, Blb Blebs, 2% 44.70 - 55.24 : PY Pyrite, Diss Disseminated, 1% **Alteration** 44.70 - 55.24 :CA Carbonate, Pervasiv Pervasive, STG Strong **RQD** 47.00 - 50.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 50.00 - 53.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 53.00 - 56.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered **MINOR INTERVALS:** **Minor Interval:** 44.7 - 49.75 ARG, Argillite Dark gray to light gray fine grained argillite. There are common wacke interbeds..The unit is thinly bedded and cuts at 20 to 45degrees from the core axis. The rock is nonmagnetic.The rock has been pervasively altered, intensly in some zones. Ankerite is common. Limited calcite is present, commonlydisseminated and in fine blebs. Silicification is intense. Mineralization appears as carbonitization, silicification, quartz/carbonate veining and thin (x cm) zones of leaching. Sericite is common. Are we seeing a potassic alteration event? Pyrite apppears in the stronger silicified zones. Strong alteration/mineralization starts about 49.75 m.

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
73148	44.70	46.00	1.30				
73149	46.00	47.50	1.50				
73150	47.50	49.00	1.50				
73151	49.00	50.50	1.50				
73152	50.50	52.00	1.50				
73153	52.00	53.50	1.50				
73154	53.50	55.00	1.50				
73156	55.00	56.50	1.50				

Hole Number: **ESO-06-02**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 49.75 - 50.8 QV, Quartz vein Brecciated quartz vein. Subrounded metamorphically stretched white quartz fragments in a matrix of quartz/ankerite/pyrite. Rusty looking zones appear to be oxidized ankerite. Some green iron carbonate? is present. Zone appears to cut at a low angle (20*?) to the core axis **Mineralization** 49.75 - 50.80 : PY Pyrite, Blb Blebs, 4% 49.75 - 50.80 : PY Pyrite, Pat Patches, 4% 49.75 - 50.80 : PY Pyrite, Diss Disseminated, 5% 49.75 - 50.80 strong ankerite and FeCo3 49.75 - 50.80 : ASP Arsenopyrite, Diss Disseminated, 0.5% 50.75-50.80 **Alteration** 49.75 - 50.80 :CA Carbonate, Pervasiv Pervasive, INT Intense 49.75 - 50.80 :SI Silica, Pervasiv Pervasive, INT Intense 49.75 - 50.80 :SR Sericite, Pervasiv Pervasive, MOD Moderate **Minor Interval:** 50.8 - 52.12 WACKE, Wacke Medium to dark gray fine grained wacke. This section shows some bedding but is mainly massive. The section has a strong overprint of carbonic alteration. The rock is very hard and strongly silicified with wispy bands of ankerite. A pea green FeCO3 is also present. **Mineralization** 50.80 - 52.12 : PY Pyrite, Diss Disseminated, 0.1% **Minor Interval:** 52.12 - 55.24 ARG, Argillite black very blocky argillite. Possible fault zone from 50.80 to 54.15. Quartz and quartz/carbonate veining are commom. **Structure** 52.80 - 54.20 : FZ Fault, 80 Deg to CA blocky rubbly core								

Hole Number: **ESO-06-02**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
55.24	79.20	**WACKE, Wacke** Light gray to black fine grained wacke. The unit is massive but does show some bedding fabric. It also has some thin dark argillite interbeds. The unit has a few thin chert beds. There are also a few thin (2-3 cm) felsic beds with feldspar. These may be volcanic or small dikes that are conformable to the beding.The entire unit is nonmagnetic. Minor quartz and quartz/carbonate veining are present. The entire unit has been strongly carbonitized. Ankerite and silicification are common. Sericite is common throughout. Sulfide content is low and patchy. **Mineralization** 55.24 - 79.20 : PY Pyrite, Diss Disseminated, 1% **Alteration** 55.24 - 79.20 :CA Carbonate, Pervasiv Pervasive, MOD Moderate 55.24 - 79.20 :SI Silica, Pervasiv Pervasive, MOD Moderate 55.24 - 79.20 :SR Sericite, Pervasiv Pervasive, PEV Weak **RQD** 56.00 - 59.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 59.00 - 62.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 62.00 - 65.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 65.00 - 68.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 68.00 - 71.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 71.00 - 74.00 : 100.00 % RQD 97.00 % Core 2.9 m recovered 74.00 - 77.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 77.00 - 80.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered **MINOR INTERVALS:** **Minor Interval:** 58.6 - 59.6 WACKE, Wacke Strongly altered zone. It has a pitted bleached appearance and increased sulfide. **Mineralization** 58.60 - 59.60 : PY Pyrite, Blb Blebs, 2% 58.60 - 59.60 : PY Pyrite, Len Lenses, 2% 58.60 - 59.60 : PY Pyrite, Diss Disseminated, 1%	73157	56.50	58.00	1.50				

Hole Number: **ESO-06-02**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 59.6 - 65 WACKE, Wacke Light gray to black fine grained wacke. The unit is massive but does show some bedding fabric. Bedding fabric cuts at 25* - 30* from the core axis.It also has some thin dark argillite interbeds. The entire unit is nonmagnetic. Minor quartz and quartz/carbonate veining are present. The entire unit has been strongly carbonitized. Ankerite and silicification are common. Sericite is common throughout. Sulfide content is low and patchy. **Minor Interval:** 65 - 67.8 WACKE, Wacke Light gray to black fine grained wacke. The unit is massive but does show some bedding fabric. Bedding fabric cuts nearly parallel to the core axis. The bedding is very dirupted. Nose of a fold? The entire unit is nonmagnetic. Minor quartz and quartz/carbonate veining are present. The entire unit has been strongly carbonitized. Ankerite and silicification are common. Sericite is common throughout. Sulfide content is low and patchy. **Minor Interval:** 67.8 - 79.2 WACKE, Wacke Light gray to black fine grained wacke. The unit is massive but does show some bedding fabric. Bedding fabric cuts nearly parallel to 45* to the core axis. The bedding is very dirupted. It appears to be the repeat of the bed due to folding. The entire unit is nonmagnetic. Minor quartz and quartz/carbonate veining are present. The entire unit has been strongly carbonitized. Ankerite and silicification are common. Sericite is common throughout. Sulfide content is low and patchy. **Alteration** 67.80 - 79.20 :CA Carbonate, Pervasiv Pervasive, STG Strong 67.80 - 79.20 :SI Silica, Pervasiv Pervasive, STG Strong 67.80 - 79.20 :SR Sericite, Pervasiv Pervasive, MOD Moderate								

Hole Number: **ESO-06-02**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
79.20	90.50	**ARG, Argillite** Dark gray to light gray fine grained argillite. The rock is composed primarily of fine grained quartz grains in a finer grained amphibole and feldspar matrix. There are common wacke interbeds..The unit is thinly bedded and cuts at 40 to 45degrees from the core axis. The rock is nonmagnetic. The rock has been pervasively altered, intensly in some zones. Ankerite is common. Limited calcite is present, commonlydisseminated and in fine blebs. Silicification is moderate. Mineralization appears as carbonitization, silicification, quartz/carbonate veining and thin (x cm) zones of leaching. Sericite is common. Are we seeing a potassic alteration event? Some pyrite apppears in the stronger silicified zones. **Mineralization** 79.20 - 90.50 : PY Pyrite, Diss Disseminated, 1% **Alteration** 79.20 - 90.50 :CA Carbonate, Pervasiv Pervasive, MOD Moderate 79.20 - 90.50 :SI Silica, Pervasiv Pervasive, MOD Moderate **RQD** 80.00 - 83.00 : 100.00 % RQD 97.00 % Core 2.92 m recovered blocky bleached core 82.2-83.0 83.00 - 86.00 : 100.00 % RQD 91.00 % Core 2.72 m recovered 86.00 - 89.00 : 100.00 % RQD 98.00 % Core 2.95 m recovered 89.00 - 92.00 : 100.00 % RQD 98.00 % Core 2.95 m recovered **MINOR INTERVALS:** **Minor Interval:** 82 - 83 ARG, Argillite blocky rubbly core **Minor Interval:** 83.5 - 84.5 CQV, Quartz-carbonate vein 10 cm quartz/carbonate vein @ 84.75-84.85 with minor sulfide cuts at 45* to core axis portion below strongly carbonate altered but weak sulfide **Mineralization** 83.50 - 84.50 : PY Pyrite, Vein Vein, 2% **Minor Interval:** 88.5 - 89 CONG, Conglomerate A few black cherty enlongated fragments appear in this section. Conglomerate?	73158	84.00	85.50	1.50				

Hole Number: **ESO-06-02**

Units: METRIC

Detailed Lithology

From	To	Lithology
90.50	104.50	**WACKE, Wacke** Light gray to black fine grained wacke. The unit is massive but does show some bedding fabric. It also has some thin dark argillite interbeds. The entire unit is nonmagnetic. Minor quartz and quartz/carbonate veining are present. The entire unit has been strongly carbonitized. Ankerite and silicification are common. Sericite is common throughout. Sulfide content is low and patchy. **RQD** 92.00 - 95.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 95.00 - 98.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 98.00 - 101.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 101.00 - 104.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 104.00 - 107.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered **MINOR INTERVALS:** **Minor Interval:** 93.8 - 94.15 WACKE, Wacke at 93.80 to 93.90 is a intensely leached zone . It is followed by a blocky broken zone to 94.10. Then a small quartz/carbonate vein from 94.10 to 94.15. Minimal sulfides associated with this event. **Minor Interval:** 98 - 104.5 WACKE, Wacke increasing quartz/carbonate veining and disruption to bedding. There are a few patches of pyrite by sulfides are minimal.
104.50	106.72	**ARG, Argillite** Dark gray to light gray fine grained argillite. The rock is composed primarily of fine grained quartz grains in a finer grained amphibole and feldspar matrix. Parting feel talcy. The rock is nonmagnetic. The rock has been pervasively altered, intensity is increasing with depth. Ankerite is common. Silicification is also increasing with depth. Mineralization appears as carbonitization, silicification, and quartz/carbonate veining. Sericite quantity is increasing also. **Alteration** 104.50 - 106.72 :CA Carbonate, Pervasiv Pervasive, STG Strong 104.50 - 106.72 :SR Sericite, Pervasiv Pervasive, MOD Moderate 104.50 - 106.72 :SI Silica, Pervasiv Pervasive, STG Strong

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
73159	96.50	98.00	1.50				
73160	98.00	99.50	1.50				
73161	99.50	101.00	1.50				
73162	101.00	102.50	1.50				
73163	102.50	104.00	1.50				
73164	104.00	105.00	1.00				
73166	105.00	106.00	1.00				
73167	106.00	107.00	1.00				

DETAILED LOG

Hole Number: **ESO-06-02**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
106.72	110.22	**BX, Breccia** A breccia zone cuts the core at about 15* off of core axis. This is a complex breccia. It contains angular fragments of argillite, quartz vein, pyrite clasts, quartz carbonate veining and white carbonate fragments. The matrix is white to tan very fine grained silica. The matrix appears to be barren of sulfides. Brecciation has left some open spaces (is this a second event?). These spaces are coated with fine grained quartz and calcite. Very late quartz/ carbonate cut at near 90 degrees to the core axis. **RQD** 107.00 - 110.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 110.00 - 113.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered	73168	107.00	108.00	1.00				
			73169	108.00	109.00	1.00				
			73170	109.00	110.00	1.00				
			73171	110.00	111.00	1.00				

Hole Number: **ESO-06-02**

Units: METRIC

Detailed Lithology

From	To	Lithology
110.22	172.10	**ARG, Argillite** Dark gray to light gray fine grained argillite. The rock is composed primarily of fine grained quartz grains in a finer grained amphibole and feldspar matrix. There are common wacke interbeds. The unit is thinly bedded and cuts at 40 to 45degrees from the core axis. The rock is nonmagnetic. The rock has been pervasively altered, intensly in some zones. Ankerite is common. Limited calcite is present, commonly disseminated and in fine blebs. Silicification is weak. Mineralization appears as carbonitization, silicification, quartz/carbonate veining and zones of leaching. Sericite is common. **RQD** 113.00 - 116.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 116.00 - 119.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 119.00 - 122.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 122.00 - 125.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 125.00 - 128.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 128.00 - 131.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 131.00 - 134.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 134.00 - 137.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 137.00 - 140.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 140.00 - 143.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 143.00 - 146.00 : 100.00 % RQD 95.00 % Core 2.85 m recovered 146.00 - 149.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 149.00 - 152.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 152.00 - 155.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 155.00 - 158.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 158.00 - 161.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 161.00 - 164.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
73172	111.00	112.00	1.00				
73173	112.00	113.00	1.00				
73174	113.00	114.50	1.50				
73176	114.50	116.00	1.50				
73177	167.00	168.50	1.50				
73178	168.50	170.00	1.50				

Hole Number: **ESO-06-02**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		RQD 164.00 - 167.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 167.00 - 170.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 170.00 - 173.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered **MINOR INTERVALS:** **Minor Interval:** 110.22 - 114.5 ARG, Argillite This section of argillite has been leached, apparently from the alteration above. The rock is softer . Talcy feeling partings along bedding are common. Only a few grains of pyrite were identified in the interval. **Minor Interval:** 114.5 - 119.5 WACKE, Wacke Light gray to black fine grained wacke. The unit is massive but does show some bedding fabric. The entire unit is nonmagnetic. Minor quartz and quartz/carbonate veining are present. The entire unit has been weakly carbonitized. Sericite is common throughout. Sulfide content is low and patchy. This wacke interbed is weakly leached. Sericite alteration is strong. **Minor Interval:** 119.5 - 130.5 ARG, Argillite Dark gray to light gray fine grained argillite. The rock is composed primarily of fine grained quartz grains in a finer grained amphibole and feldspar matrix. The unit is thinly bedded and cuts at 40 to 45degrees from the core axis. The rock is nonmagnetic. The rock has been pervasively altered. Limited calcite is present, commonly disseminated and in fine blebs. Silicification is weak. Sericite is common. **Minor Interval:** 130.5 - 142.75 WACKE, Wacke Light gray to black fine grained wacke. The unit is massive but does show some bedding fabric. It also has some thin dark argillite interbeds. The entire unit is nonmagnetic. Minor quartz and quartz/carbonate veining are present. The entire unit has been strongly carbonitized. Ankerite and silicification are common. Sericite is common throughout. Sulfide content is low and patchy **Minor Interval:** 142.75 - 150.4 ARG, Argillite Dark gray to light gray fine grained argillite. The rock is composed primarily of fine grained quartz grains in a finer grained amphibole and feldspar matrix. The unit is thinly bedded and cuts at 40 to 45degrees from the core axis. The rock is nonmagnetic. The rock has been pervasively altered. Limited calcite is present, commonly disseminated and in fine blebs. Silicification is weak. Sericite is common.								

Hole Number: **ESO-06-02**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 150.4 - 163.8 WACKE, Wacke Light gray to black fine grained wacke. The unit is massive but does show some bedding fabric. It also has some thin dark argillite interbeds. The entire unit is nonmagnetic. Minor quartz and quartz/carbonate veining are present. The entire unit has been strongly carbonitized. Ankerite and silicification are common. Sericite is common throughout. Sulfide content is low and patchy **Minor Interval:** 163.9 - 163.92 CQV, Quartz-carbonate vein Thin quartz/carbonate vein with pyrite and sphalerite 2-3 mm in width cuts at 45* to core axis **Minor Interval:** 163.92 - 172.1 ARG, Argillite Dark gray to light gray fine grained argillite. The rock is composed primarily of fine grained quartz grains in a finer grained amphibole and feldspar matrix. The unit is thinly bedded and cuts at 40 to 45degrees from the core axis. The rock is nonmagnetic. The rock has been weakly pervasively altered. Several ages of quartz and quartz/carbonate veins are present. These cut the corer axis at 35 to 50* to the core axis. Most parallel bedding. The veins have increased pyrite with rare sphalerite. The interval from 167 m to 171 m has an increased amount of veining.								
172.10	177.98	**FVOL, Felsic volcanic** Light gray fine grained felsic volcanic. The rock is composed of fine quartz eyes in a feldspar matrix. Minor clots of amphibole are present. This unit is thinly bedded and has thn felsic volcanics interbedded with thin argillite intervals. The unit has been weakly altered and has minor ankerite with a trace of fuchsite. Sulfide content is slightly elevated. Intensity of alteration/sulphidization increases with depth. **Mineralization** 172.10 - 177.98 : PY Pyrite, Blb Blebs, 2% 172.10 - 177.98 : PY Pyrite, Diss Disseminated, 1% **Alteration** 172.10 - 177.98 :CA Carbonate, Pervasiv Pervasive, MOD Moderate 172.10 - 177.98 :F Fuchsite, Pervasiv Pervasive, PEV Weak 172.10 - 177.98 :S Sulphide, Pervasiv Pervasive, MOD Moderate **RQD** 173.00 - 176.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 176.00 - 179.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered								

Hole Number: **ESO-06-02**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
177.98	179.80	**CQV, Quartz-carbonate vein** The top portion of this vein is primarily fine grained white milky quartz with very minor sulfide. It grades into a section of mixed quartz/whispy ankerite/minor pyrite. The vein then grades back into quartz and grades into a silicified felsic volcanic. This vein cuts the core axis at 20*. **Mineralization** 177.98 - 179.80 : PY Pyrite, Blb Blebs, 2% 177.98 - 179.80 : PY Pyrite, SS Stringers, 1% **Alteration** 177.98 - 179.80 :CA Carbonate, Pervasiv Pervasive, MOD Moderate 177.98 - 179.80 :SI Silica, Pervasiv Pervasive, MOD Moderate **RQD** 179.00 - 182.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered								
179.80	181.62	**FVOL, Felsic volcanic** Light gray fine grained felsic volcanic. The rock is composed of fine quartz eyes in a feldspar matrix. Minor clots of amphibole are present. This unit is thinly bedded and has thn felsic volcanics interbedded with thin argillite intervals. The unit has beenstrongly altered at the top of the section. Silicification is dominant but carbonitization is strong also. Sericitic alteration is also strong. Sulfide content is relatively low, ~3%. Intensity of alteration decreases with depth (away from the vein. **Mineralization** 179.80 - 181.62 : PY Pyrite, Blb Blebs, 2% 179.80 - 181.62 : PY Pyrite, Diss Disseminated, 1% **Alteration** 179.80 - 181.62 :CA Carbonate, Pervasiv Pervasive, MOD Moderate 179.80 - 181.62 :SI Silica, Pervasiv Pervasive, STG Strong 179.80 - 181.62 :SR Sericite, Pervasiv Pervasive, STG Strong								

Hole Number: **ESO-06-02**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
181.62	185.37	**ARG, Argillite** Dark gray to light gray fine grained argillite. The rock is composed primarily of fine grained quartz grains in a finer grained amphibole and feldspar matrix. There are common massive wacke interbeds. The unit is thinly bedded and cuts at 25 to 30 degrees from the core axis. The rock is nonmagnetic. The rock has been weakly but pervasively altered. Ankerite is limited. Silicification is weak. Mineralization appears as carbonitization, silicification, and quartz/carbonate veining. Sericite is common. **Mineralization** 181.62 - 185.37 : PY Pyrite, Blb Blebs, 1% **Alteration** 181.62 - 185.37 :CA Carbonate, Pervasiv Pervasive, PEV Weak 181.62 - 185.37 :SI Silica, Pervasiv Pervasive, MOD Moderate **RQD** 182.00 - 185.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 185.00 - 188.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered								
185.37	195.00	**FVOL, Felsic volcanic** Light gray fine grained felsic volcanic. The rock is composed of fine quartz eyes in a feldspar matrix. Minor clots of amphibole are present. This unit is thinly bedded and has relatively thick felsic volcanics interbedded with thin argillite intervals. The unit has been sericitized and very weakly pyritized. Sulfide content is low, >1%. **RQD** 188.00 - 191.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 191.00 - 194.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 194.00 - 197.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered	73179	193.50	195.00	1.50				

Hole Number: **ESO-06-02**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
195.00	197.45	**QV, Quartz vein** In this interval several quartz veins with sulfide cut the interval. The quartz tends to be white to very light gray. Translucent light gray fragments of quartz float in a white milky matrix.A minor amount of tan whispy fine grained ankerite is present. Pyrite was the only sulfide identified. A black very fine grainedsooty mineral is common. On close examination the black mineral forms coloform structures with very fine grained pyrite. **Mineralization** 195.00 - 197.45 : CA Carbonate, Pat Patches, 2% 195.00 - 197.45 : PY Pyrite, Blb Blebs, 4% 195.00 - 197.45 : PY Pyrite, Diss Disseminated, 2% 195.00 - 197.45 : PY Pyrite, SS Stringers, 2% **Alteration** 195.00 - 197.45 :SI Silica, Pervasiv Pervasive, STG Strong 195.00 - 197.45 :SR Sericite, Pervasiv Pervasive, STG Strong **RQD** 197.00 - 200.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered	73180	195.00	196.00	1.00				
			73182	196.00	197.00	1.00				
			73183	197.00	198.50	1.50				

Hole Number: **ESO-06-02**

Units: METRIC

Detailed Lithology

From	To	Lithology
197.45	269.30	**FVOL, Felsic volcanic** Light gray fine grained felsic volcanic. The rock is composed of fine quartz eyes in a sericite matrix. Very minor clots of amphibole are present. This unit is massive. The unit has been strongly altered. Sericitization is dominant but silicification is strong also. Sulfide content is elevated, ~5%. The sulfide is very fine grained and is found in small clots that are well disseminated through the rock. **RQD** 200.00 - 203.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 203.00 - 206.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 206.00 - 209.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 209.00 - 212.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 212.00 - 215.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 215.00 - 218.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 218.00 - 221.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 221.00 - 224.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 224.00 - 227.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 227.00 - 230.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 230.00 - 233.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 233.00 - 236.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 236.00 - 239.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 239.00 - 242.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 242.00 - 245.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 245.00 - 248.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 248.00 - 251.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 251.00 - 254.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
73184	198.50	200.00	1.50				
73186	200.00	201.50	1.50				
73187	201.50	203.00	1.50				
73188	203.00	204.50	1.50				
73189	204.50	206.00	1.50				
73190	206.00	207.50	1.50				
73191	207.50	209.00	1.50				
73192	209.00	210.50	1.50				
73193	210.50	212.00	1.50				
73194	212.00	213.50	1.50				
73196	213.50	215.00	1.50				
73197	215.00	216.50	1.50				
73198	216.50	218.00	1.50				
73199	218.00	219.50	1.50				
73200	219.50	221.00	1.50				
73201	221.00	222.50	1.50				
73202	222.50	224.00	1.50				
73203	224.00	225.50	1.50				
73204	225.50	227.00	1.50				
73206	227.00	228.50	1.50				
73207	228.50	230.00	1.50				
73208	230.00	231.50	1.50				
73209	231.50	233.00	1.50				
73210	233.00	234.50	1.50				
73211	234.50	236.00	1.50				
73212	236.00	237.50	1.50				
73213	237.50	239.00	1.50				
73214	239.00	240.00	1.00				
73216	240.00	241.00	1.00				
73217	241.00	242.00	1.00				
73218	242.00	243.00	1.00				
73219	243.00	244.00	1.00				
73220	244.00	245.00	1.00				
73221	245.00	246.00	1.00				
73222	246.00	247.00	1.00				
73223	247.00	248.00	1.00				
73224	248.00	249.00	1.00				
73226	249.00	250.00	1.00				
73227	250.00	251.00	1.00				
73228	251.00	252.00	1.00				
73229	252.00	253.00	1.00				
73230	253.00	254.00	1.00				

Hole Number: **ESO-06-02**

Units: METRIC

Detailed Lithology

From	To	Lithology
		RQD
		254.00 - 257.00 : 100.00 % RQD 100.00 % Core
		3.0 m recovered
		257.00 - 260.00 : 100.00 % RQD 100.00 % Core
		3.0 m recovered
		260.00 - 263.00 : 100.00 % RQD 100.00 % Core
		3.0 m recovered
		263.00 - 266.00 : 100.00 % RQD 100.00 % Core
		3.0 m recovered
		266.00 - 269.00 : 100.00 % RQD 100.00 % Core
		3.0 m recovered
		269.00 - 272.00 : 100.00 % RQD 100.00 % Core
		3.0 m recovered
		MINOR INTERVALS:
		Minor Interval:
		197.45 - 210.95 FVOL, Felsic volcanic
		alteration decreasing away from quartz veining at 195-197.45
		Minor Interval:
		210.95 - 213.5 FVOL, Felsic volcanic
		section of strong quartz and quartz/carbonate veining cutting at 90 degrees to core axis
		barren, no appreciable increase in sulfide
		Minor Interval:
		213.5 - 220 FVOL, Felsic volcanic
		decreasing veining / disruption
		becoming massive, unaltered
		Minor Interval:
		220 - 223 FVOL, Felsic volcanic
		Light gray fine grained felsic volcanic. The rock is composed of fine quartz eyes in a sericite matrix. This unit is massiven but shows a weak foliation that cuts at 45* to the core axis. The unit has been pervasively altered. Sericitization is dominant but carbonitization is strong also. Sulfide content is elevated, ~3%. The sulfide is very fine grained and is found in small clots that are well disseminated through the rock. Trace amounts of arsenopyrite are also found.
		Mineralization
		220.00 - 223.00 : PY Pyrite, Diss Disseminated, 3%
		fine disseminated blebs
		Alteration
		220.00 - 223.00 :CA Carbonate, Pervasiv Pervasive, STG Strong
		common whispy ankerite
		220.00 - 223.00 :SR Sericite, Pervasiv Pervasive, STG Strong
		Minor Interval:
		223 - 225.9 FVOL, Felsic volcanic
		slightly increasing ankerite/pyrite/arsenopyrite

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
73231	254.00	255.00	1.00				
73232	255.00	256.00	1.00				
73233	256.00	257.00	1.00				
73234	257.00	258.00	1.00				
73236	258.00	259.00	1.00				
73237	259.00	260.00	1.00				
73238	260.00	261.00	1.00				
73239	261.00	262.00	1.00				
73240	262.00	263.00	1.00				
73241	263.00	264.00	1.00				
73242	264.00	265.00	1.00				
73243	265.00	266.00	1.00				
73244	266.00	267.00	1.00				
73246	267.00	268.00	1.00				
73247	268.00	269.00	1.00				
73248	269.00	270.00	1.00				

Hole Number: **ESO-06-02**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 225.9 - 225.95 CQV, Quartz-carbonate vein thin quartz carbonate vein loaded with pyrite cuts at 45* to core axis **Minor Interval:** 225.95 - 227.7 FVOL, Felsic volcanic becoming more massive alteration overprinting lithology sulfide content 3%-5% combined py and aspy **Minor Interval:** 227.7 - 227.9 CQV, Quartz-carbonate vein quartz/carbonate vein set and alteration zone cut at 355* to core axis associated sulfides are py and aspy , combined sulfides approach 8% **Minor Interval:** 227.9 - 241 FVOL, Felsic volcanic Light gray fine grained felsic volcanic. The rock is composed of fine quartz eyes in a sericite matrix. Clots where amphibole was in the upper felsic volcanic section are now sulfide. This unit is massive and very competent. . The unit has been strongly altered. Sericitization is dominant but silicification is strong also. Ankerite is common in thin whispy bands that are cutting the core axiz at 40* -45*. Sulfide content is elevated, ~8%. The sulfide is very fine grained and is found in small clots that are well disseminated through the rock as well as truely disseminated. Clots coarsen 239-241. **Mineralization** 227.90 - 241.00 : ASP Arsenopyrite, Diss Disseminated, 1.5% rims pyrite blebs and disseminated 227.90 - 241.00 : PY Pyrite, Blb Blebs, 6% 227.90 - 241.00 : PY Pyrite, Diss Disseminated, 2% **Alteration** 227.90 - 241.00 :CA Carbonate, Pervasiv Pervasive, STG Strong 227.90 - 241.00 :SR Sericite, Pervasiv Pervasive, STG Strong							

Hole Number: **ESO-06-02**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 241 - 250.25 FVOL, Felsic volcanic Light gray fine grained felsic volcanic. The rock is composed of fine quartz eyes in a sericite matrix. Thesericite is being replaces and the rock is getting a greenish tint, Clots where amphibole was in the upper felsic volcanic section are now sulfide. This unit is massive and very competent. The unit has been strongly altered. Carbonitization is dominant. Ankerite is common in thin whispy bands that are cutting the core axis at 40* - 45*. Magnetite is associated with the ankerite. The rock is becoming weakly magnetic. Sulfide content is elevated, ~8%. The sulfide is very fine grained and is found in coarse clots or small cubes made of very fine grained pyrite. Pyrite and arseno pyrite occur in close proximint but are no usually together. that are well disseminated through the rock as well as truely disseminated. Bands of ankerite with quartz and sulfides are becoming common. **Mineralization** 241.00 - 250.25 : ASP Arsenopyrite, Blb Blebs, 1.5% 241.00 - 250.25 : ASP Arsenopyrite, Diss Disseminated, 1.5% 241.00 - 250.25 : PY Pyrite, Blb Blebs, 3% 241.00 - 250.25 : PY Pyrite, Diss Disseminated, 2% 241.00 - 250.25 : PY Pyrite, SS Stringers, 2% 241.00 - 250.25 : M Magnetite, Diss Disseminated, 1% 241.00 - 250.25 : SPH Sphalerite, Diss Disseminated, 0.25% Usually associated with arsenopyrite **Alteration** 241.00 - 250.25 :CA Carbonate, Pervasiv Pervasive, INT Intense 241.00 - 250.25 :F Fuchsite, Pervasiv Pervasive, PEV Weak **Minor Interval:** 250.25 - 257.7 FVOL, Felsic volcanic Alteration continues to increase. The origional textures are becoming hard to determine. The quartz eyes are getting finer. Whispy ankerite bands with sulfides are common. The bands become nearly vein like at 250.75 and again at 251.80 to 251.9o Sulfide constituet a majority of the mineral in these thin sections. The banding cuts the core at 20* - 25*. Veining increases near the bottom of the unit. **Mineralization** 250.25 - 257.70 : ASP Arsenopyrite, Blb Blebs, 3% 250.25 - 257.70 : ASP Arsenopyrite, Diss Disseminated, 1% 250.25 - 257.70 : PY Pyrite, Blb Blebs, 3% 250.25 - 257.70 : PY Pyrite, Diss Disseminated, 2% 250.25 - 257.70 : PY Pyrite, Len Lenses, 3% **Alteration** 250.25 - 257.70 :CA Carbonate, Pervasiv Pervasive, INT Intense 250.25 - 257.70 :M Magnetite, Pervasiv Pervasive, PEV Weak								

Hole Number: **ESO-06-02**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 257.7 - 269.3 FVOL, Felsic volcanic The host rock for this section is very hard to identify. Occasional clasts or fragments of felsic intrusive are identifiable. Alteration has overprinted all relic textures. Carbonate alteration dominates. Ankerite is common in thin whispy lenses. Bands of a green iron carbonate with magnatite commonly cut the core. These bands have variable but usually elevated sulfide content. The section is highly disrupted by quartz and quartz/carbonate veining. Several ages of veining are evident with the older veins being boudined and overprinted by later alteration. The lower contact is gradational into a total silica replacement.. **Mineralization** 257.70 - 269.30 : ASP Arsenopyrite, Blb Blebs, 2% 257.70 - 269.30 : ASP Arsenopyrite, Diss Disseminated, 1% 257.70 - 269.30 : PY Pyrite, Blb Blebs, 3% 257.70 - 269.30 : PY Pyrite, Diss Disseminated, 2% 257.70 - 269.30 : M Magnetite, Pat Patches, 0.5% **Alteration** 257.70 - 269.30 :CA Carbonate, Pervasiv Pervasive, INT Intense								

Hole Number: **ESO-06-02**

Units: METRIC

Detailed Lithology

From	To	Lithology
269.30	293.58	**CQV, Quartz-carbonate vein** Major quartz/carbonate vein/replacement. Near the top identifible fragments of very replaced wall rock exist. As depth increases the bedrock fragments been totally replaced with pyrite and arsenopyrite. Near the top of the section ankerite and iron carbonate are mixed in. In the middle of the system the carbonate becomes less important. The middle of the system is quartz/pyrite/arsenopyrite. **RQD** 272.00 - 275.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 275.00 - 278.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 278.00 - 281.00 : 100.00 % RQD 100.00 % Core 2.94 m recovered 281.00 - 284.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 284.00 - 287.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 287.00 - 290.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 290.00 - 293.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 293.00 - 296.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
73249	270.00	271.00	1.00				
73250	271.00	272.00	1.00				
73251	272.00	273.00	1.00				
73252	273.00	274.00	1.00				
73253	274.00	275.00	1.00				
73254	275.00	276.00	1.00				
73257	276.00	277.00	1.00				
73258	277.00	278.00	1.00				
73259	278.00	279.00	1.00				
73260	279.00	280.00	1.00				
73261	280.00	281.00	1.00				
73262	281.00	282.00	1.00				
73264	282.00	283.00	1.00				
73266	283.00	284.00	1.00				
73267	284.00	285.00	1.00				
73268	285.00	286.00	1.00				
73269	286.00	287.00	1.00				
73270	287.00	288.00	1.00				
73271	288.00	289.00	1.00				
73272	289.00	290.00	1.00				
73274	290.00	291.00	1.00				
73276	291.00	292.00	1.00				
73277	292.00	293.00	1.00				
73278	293.00	294.00	1.00				

Hole Number: **ESO-06-02**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 269.3 - 274 CQV, Quartz-carbonate vein Fragments of the felsic volcanic are still identifble. The supporting matrix is quartz/ ankerite and a green iron carbonate. The ankerite tends to be whispy while the green iron carbonate is more massive. The green iron carbonate also has minor magnatite. The matrix carries a small percentage of sulfide. Most of the sulfides have replaced wall rock. **Texture** 269.30 - 274.00 : B Breccia fine breccia of veining **Mineralization** 269.30 - 274.00 : ASP Arsenopyrite, Blb Blebs, 3% 269.30 - 274.00 : ASP Arsenopyrite, Pat Patches, 3% 269.30 - 274.00 : ASP Arsenopyrite, Diss Disseminated, 1% 269.30 - 274.00 : PY Pyrite, Blb Blebs, 4% 269.30 - 274.00 : PY Pyrite, Diss Disseminated, 2% 269.30 - 274.00 : PY Pyrite, Pat Patches, 3% 269.30 - 274.00 : M Magnetite, Diss Disseminated, 0.5% **Alteration** 269.30 - 274.00 :CA Carbonate, Pervasiv Pervasive, INT Intense 269.30 - 274.00 :M Magnetite, Pervasiv Pervasive, STG Strong 269.30 - 274.00 :F Fuchsite, Pervasiv Pervasive, PEV Weak 269.30 - 274.00 :S Sulphide, Pervasiv Pervasive, STG Strong **Minor Interval:** 274 - 276.15 CQV, Quartz-carbonate vein Zone of total replacement of wall rock. Big patches of pyrite/arsenopyrite are floating in a matrix of silica with minor carbonate. Brecciation is common. Well rounded clear quartz fragments floating in the matrix of quartz/pyrite/arsenopyrite. Sulfide amounts high. **Mineralization** 274.00 - 276.15 : ASP Arsenopyrite, Perv Pervasive, 7% 274.00 - 276.15 : ASP Arsenopyrite, Clst Clasts, 4% 274.00 - 276.15 : ASP Arsenopyrite, Len Lenses, 4% 274.00 - 276.15 : PY Pyrite, Clst Clasts, 5% 274.00 - 276.15 : PY Pyrite, Len Lenses, 5% 274.00 - 276.15 : PY Pyrite, Perv Pervasive, 6%								

Hole Number: **ESO-06-02**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 276.15 - 281 CQV, Quartz-carbonate vein Similar to above but more wall rock fragments of several tyoes. Rock type is mainly argillite but some cherts and felsic volcanics were identified. Brecciation is common in both the fragments and the quartz vein. **Mineralization** 276.15 - 281.00 : ASP Arsenopyrite, Blb Blebs, 2% 276.15 - 281.00 : ASP Arsenopyrite, Len Lenses, 6% 276.15 - 281.00 : ASP Arsenopyrite, Diss Disseminated, 2% 276.15 - 281.00 : PY Pyrite, Len Lenses, 10% 276.15 - 281.00 : PY Pyrite, Blb Blebs, 3% 276.15 - 281.00 : PY Pyrite, Diss Disseminated, 2% **Minor Interval:** 281 - 291 CQV, Quartz-carbonate vein Zone of total replacement of wall rock. Big patches of pyrite/arsenopyrite are floating in a matrix of silica with minor carbonate. Brecciation is common. Well rounded clear quartz fragments floating in the matrix of quartz/pyrite/arsenopyrite. Sulfide amounts high.Increasing ankerite/decreasing quartz from about 291. **Minor Interval:** 291 - 293.58 CQV, Quartz-carbonate vein Increasing ankerite and increasing wall rock (argillite) fragments. Sulfide contents lowers. 293 to 293.58 is greadition into argellite wall rock								

Hole Number: **ESO-06-02**

Units: METRIC

Detailed Lithology

From	To	Lithology
293.58	326.00	**ARG, Argillite** Dark gray to light gray fine grained argillite. The rock is composed primarily of fine grained quartz grains in a finer grained amphibole and feldspar matrix. There are a few wacke interbeds. The unit is thinly bedded and cuts at 40 to 45 degrees from the core axis. The rock is nonmagnetic. Quartz and quartz/carbonate veining is common. See minor details section. **RQD** 296.00 - 299.00 : 100.00 % RQD 98.00 % Core 2.93 m recovered 299.00 - 302.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 302.00 - 305.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 305.00 - 308.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 308.00 - 311.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 311.00 - 314.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 314.00 - 317.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 317.00 - 320.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 320.00 - 323.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered 323.00 - 326.00 : 100.00 % RQD 100.00 % Core 3.0 m recovered **MINOR INTERVALS:** **Minor Interval:** 294.4 - 294.6 ARG, Argillite strong quartz and quartz/carbonate veining rock looks slightly bleached. **Minor Interval:** 304 - 305 ARG, Argillite strong quartz and quartz/carbonate veining rock looks slightly bleached. **Minor Interval:** 306.15 - 306.6 QV, Quartz vein strong quartz veining with sulfides **Minor Interval:** 306.7 - 306.71 VN, Vein massive pyrite vein

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
73279	294.00	295.00	1.00				
73280	295.00	296.00	1.00				
73281	296.00	297.50	1.50				
73282	297.50	299.00	1.50				
73283	299.00	300.50	1.50				
73284	300.50	302.00	1.50				
73286	320.40	322.10	1.70				

Hole Number: **ESO-06-02**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 308 - 310.3 VN, Vein strong quartz and quartz/carbonate veining rock looks slightly bleached. sericitic alteration **Minor Interval:** 320.4 - 322.1 CQV, Quartz-carbonate vein series of veins cutting at different angles								

Samples

Sample Number	From	To	Au gpt	Ag ppm	Zn ppm	Cu ppm
Sample Type **ASSAY**						
73148	44.70	46.00				
73149	46.00	47.50				
73150	47.50	49.00				
73151	49.00	50.50				
73152	50.50	52.00				
73153	52.00	53.50				
73154	53.50	55.00				
73156	55.00	56.50				
73157	56.50	58.00				
73158	84.00	85.50				
73159	96.50	98.00				
73160	98.00	99.50				
73161	99.50	101.00				
73162	101.00	102.50				
73163	102.50	104.00				
73164	104.00	105.00				
73166	105.00	106.00				
73167	106.00	107.00				
73168	107.00	108.00				
73169	108.00	109.00				
73170	109.00	110.00				
73171	110.00	111.00				
73172	111.00	112.00				
73173	112.00	113.00				
73174	113.00	114.50				
73176	114.50	116.00				
73177	167.00	168.50				
73178	168.50	170.00				

Hole Number: **ESO-06-02**

Units: METRIC

Samples

Sample Number	From	To	Au gpt	Ag ppm	Zn ppm	Cu ppm
Sample Type **ASSAY**						
73179	193.50	195.00				
73180	195.00	196.00				
73182	196.00	197.00				
73183	197.00	198.50				
73184	198.50	200.00				
73186	200.00	201.50				
73187	201.50	203.00				
73188	203.00	204.50				
73189	204.50	206.00				
73190	206.00	207.50				
73191	207.50	209.00				
73192	209.00	210.50				
73193	210.50	212.00				
73194	212.00	213.50				
73196	213.50	215.00				
73197	215.00	216.50				
73198	216.50	218.00				
73199	218.00	219.50				
73200	219.50	221.00				
73201	221.00	222.50				
73202	222.50	224.00				
73203	224.00	225.50				
73204	225.50	227.00				
73206	227.00	228.50				
73207	228.50	230.00				
73208	230.00	231.50				
73209	231.50	233.00				
73210	233.00	234.50				
73211	234.50	236.00				
73212	236.00	237.50				
73213	237.50	239.00				
73214	239.00	240.00				
73216	240.00	241.00				
73217	241.00	242.00				
73218	242.00	243.00				
73219	243.00	244.00				
73220	244.00	245.00				
73221	245.00	246.00				

Hole Number: **ESO-06-02**

Units: METRIC

Samples

Sample Number	From	To	Au gpt	Ag ppm	Zn ppm	Cu ppm
Sample Type **ASSAY**						
73222	246.00	247.00				
73223	247.00	248.00				
73224	248.00	249.00				
73226	249.00	250.00				
73227	250.00	251.00				
73228	251.00	252.00				
73229	252.00	253.00				
73230	253.00	254.00				
73231	254.00	255.00				
73232	255.00	256.00				
73233	256.00	257.00				
73234	257.00	258.00				
73236	258.00	259.00				
73237	259.00	260.00				
73238	260.00	261.00				
73239	261.00	262.00				
73240	262.00	263.00				
73241	263.00	264.00				
73242	264.00	265.00				
73243	265.00	266.00				
73244	266.00	267.00				
73246	267.00	268.00				
73247	268.00	269.00				
73248	269.00	270.00				
73249	270.00	271.00				
73250	271.00	272.00				
73251	272.00	273.00				
73252	273.00	274.00				
73253	274.00	275.00				
73254	275.00	276.00				
73257	276.00	277.00				
73258	277.00	278.00				
73259	278.00	279.00				
73260	279.00	280.00				
73261	280.00	281.00				
73262	281.00	282.00				
73264	282.00	283.00				
73266	283.00	284.00				

Hole Number: **ESO-06-02**

Units: METRIC

Samples

Sample Number	From	To	Au gpt	Ag ppm	Zn ppm	Cu ppm
Sample Type **ASSAY**						
73267	284.00	285.00				
73268	285.00	286.00				
73269	286.00	287.00				
73270	287.00	288.00				
73271	288.00	289.00				
73272	289.00	290.00				
73274	290.00	291.00				
73276	291.00	292.00				
73277	292.00	293.00				
73278	293.00	294.00				
73279	294.00	295.00				
73280	295.00	296.00				
73281	296.00	297.50				
73282	297.50	299.00				
73283	299.00	300.50				
73284	300.50	302.00				
73286	320.40	322.10				

Aug 18, 2006

DETAILED LOG

Units: METRIC

Hole Number: **ESO-06-03**

Project Name:	Mikwam	Primary Coordinates	Grid: UTM:	Destination Coordinates	Grid: LOCAL:	Collar Dip:	-45.00
Project Number:	ESO06-MK	North:	5482867.00	North:		Collar Az:	90.00
Location:	Surface	East:	592240.00	East:		Length:	351.00
		Elev:	263.5	Elev:		Start Depth:	0.00
Date Started:	Mar 12, 2006	Collar Survey: N	Plugged: N	Contractor:	Heath and Sherwood Drilling Inc.	Final Depth:	351.00
Date Completed:	Mar 17, 2006	Multishot Survey: N	Hole Size: BQ	Core Storage:	Mine Site		
		Pulse EM Survey: N	Casing: Left in Hole				

Comments:

Sample Averages

Survey Data

Depth	Azimuth Decimal	Dip Decimal	Test Type	Flag	Comments	Depth	Azimuth Decimal	Dip Decimal	Test Type	Flag	Comments
102.00	88.80	-40.90	ES	OK		**201.00**	93.00	-38.20	ES	OK	
300.00	104.20	-31.10	ES	OK	94.2?	**351.00**	96.00	-29.90	ES	OK	

Detailed Lithology

From	To	Lithology
0	50.00	**OB, Overburden** Overburder to about 50 meters cased to 48 meters **RQD** 48.00 - 51.00 : 100.00 % RQD 100.00 % Core Casing set at 48 .5 m rubble to 51
50.00	54.10	**WACKE, Wacke** Dark gray to off white fine grained wacke. The rock is composed of fine grained quartz in a soft white feldspar and green amphibole or chlorite matrix. .Most of the sedimentary features are overprinted by alteration and surface weathering. Whispy ankerite contitutes 10%-15% of the rock. Sulfides are common being widely disseminated and in small blebs. **Mineralization** 50.00 - 54.10 : ASP Arsenopyrite, Blb Blebs, 2% 50.00 - 54.10 : ASP Arsenopyrite, Diss Disseminated, 1% 50.00 - 54.10 : PY Pyrite, Blb Blebs, 3% 50.00 - 54.10 : PY Pyrite, Diss Disseminated, 2% **Alteration** 50.00 - 54.10 :CA Carbonate, Pervasiv Pervasive, STG Strong **RQD** 51.00 - 54.00 : 100.00 % RQD 82.00 % Core 2.45 m recovered 54.00 - 57.00 : 100.00 % RQD 100.00 % Core 3 m recovered

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
73287	51.00	52.50	1.50				
73288	52.50	54.00	1.50				
73289	54.00	55.00	1.00				

DETAILED LOG

Hole Number: **ESO-06-03**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
54.10	58.60	**CQV, Quartz-carbonate vein** Milky white fine grained quartz vein. The quartz is sugary textured. Ankerite has strongly effected fragments within the vein but is absent in the vein material. Minor amounts of sulfides are in the vein matrix but greater amounts of sulfides are concentrated in the wallrock fragments. **Mineralization** 54.10 - 58.60 : ASP Arsenopyrite, Blb Blebs, 2% 54.10 - 58.60 : PY Pyrite, Blb Blebs, 3% **RQD** 57.00 - 60.00 : 100.00 % RQD 97.00 % Core 2.9 m recovered	73290	55.00	56.00	1.00				
			73291	56.00	57.00	1.00				
			73292	57.00	58.50	1.50				

Hole Number: **ESO-06-03**

Units: METRIC

Detailed Lithology

From	To	Lithology
58.60	96.54	**WACKE, Wacke** Dark gray to off white fine grained wacke. The rock is composed of fine grained quartz in a soft white feldspar and green amphibole or chlorite matrix. .Most of the sedimentary features are overprinted by alteration. There are a few thin argillite/argillic interbeds that cut the core at a shallow angle (10*-15*). Whispy ankerite contitutes 10%-15% of the rock. There are a few thin quartz and quartz/carbonate veins. One to two percent sulfides are common being widely disseminated and in small blebs. **RQD** 60.00 - 63.00 : 100.00 % RQD 100.00 % Core 3 m recovered 63.00 - 66.00 : 100.00 % RQD 30.00 % Core .90 m recovered, bad washout 66.00 - 69.00 : 100.00 % RQD 93.00 % Core 2.8 m recovered 69.00 - 72.00 : 100.00 % RQD 100.00 % Core 3 m recovered 72.00 - 75.00 : 100.00 % RQD 100.00 % Core 3 m recovered 75.00 - 78.00 : 100.00 % RQD 90.00 % Core 2.7 m recovered 78.00 - 81.00 : 100.00 % RQD 100.00 % Core 3 m recovered 81.00 - 84.00 : 100.00 % RQD 100.00 % Core 3 m recovered 84.00 - 87.00 : 100.00 % RQD 87.00 % Core 2.6 m recovered 87.00 - 90.00 : 100.00 % RQD 100.00 % Core 3 m recovered 90.00 - 93.00 : 100.00 % RQD 60.00 % Core 1.8 m recovered bad washout 93.00 - 96.00 : 100.00 % RQD 97.00 % Core 2.9 m recovered 96.00 - 99.00 : 100.00 % RQD 97.00 % Core 2.9 m recovered

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
73293	75.00	76.50	1.50				
73294	76.50	78.00	1.50				
73296	78.00	79.50	1.50				
73297	79.50	81.00	1.50				
73298	81.00	82.50	1.50				
73299	82.50	84.00	1.50				
73300	94.50	96.10	1.60				
73301	96.10	97.50	1.40				

Hole Number: **ESO-06-03**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 75 - 78.1 CQV, Quartz-carbonate vein Zone of increased quartz/carbonate veining. Zone has been carbonitized. Sulfide content is above background. Strong ankerite/green iron carbonate banding. **Mineralization** 75.00 - 78.10 : PY Pyrite, Blb Blebs, 2% **Alteration** 75.00 - 78.10 :CA Carbonate, Pervasiv Pervasive, STG Strong common ankerite and green iron carbonate. **Minor Interval:** 78.1 - 90 WACKE, Wacke Dark gray to off white fine grained wacke. The rock is composed of fine grained quartz in a white feldspar and green amphibole or chlorite matrix. .Some of the sedimentary features are overprinted by alteration. Whispy ankerite contitutes 10%-15% of the rock. There are a few thin quartz and quartz/carbonate veins.Sulfides are common being widely disseminated and in small hairlike fracture filling. Sulfides are above background with arsenopyrite occuring.. **Mineralization** 78.10 - 90.00 : ASP Arsenopyrite, Diss Disseminated, 0.5% 78.10 - 90.00 : ASP Arsenopyrite, SS Stringers, 0.5% 78.10 - 90.00 : PY Pyrite, Diss Disseminated, 0.5% 78.10 - 90.00 : PY Pyrite, SS Stringers, 1% **Alteration** 78.10 - 90.00 :CA Carbonate, Pervasiv Pervasive, STG Strong **Minor Interval:** 96.05 - 96.1 CHERT, Chert thin black chert band cuts the core at 10*								

Hole Number: **ESO-06-03**

Units: METRIC

Detailed Lithology

From	To	Lithology
96.54	120.25	**ARG, Argillite** Dark gray to black fine grained argillite.This unit is very thinly bedded. It commonly parts along bedding with chloritic or graphitic partings.The unit has a weak carbonate component that suggests weak carbonitization. In place the alteration becomes intense. See minor details. Quartz and quartz/carbonate veining is common. Several stages or periods of veining are evident. Sulfide content is variable with 1-2% pyrite as background. **RQD** 99.00 - 102.00 : 100.00 % RQD 98.00 % Core 1.95 m recovered 102.00 - 105.00 : 100.00 % RQD 97.00 % Core 2.9 m recovered 105.00 - 108.00 : 100.00 % RQD 100.00 % Core 3 m recovered 108.00 - 111.00 : 100.00 % RQD 100.00 % Core 3 m recovered 111.00 - 114.00 : 100.00 % RQD 93.00 % Core 2.8 m recovered 114.00 - 117.00 : 100.00 % RQD 93.00 % Core 2.8 m recovered 117.00 - 120.00 : 100.00 % RQD 100.00 % Core 3 m recovered 120.00 - 123.00 : 100.00 % RQD 100.00 % Core 3 m recovered **MINOR INTERVALS:** **Minor Interval:** 96.54 - 100 ARG, Argillite Black soft fine grained argillite. Some blocky sections due to chloritic partings. Bedding highly contorted. Weak sulfide. **Mineralization** 96.54 - 100.00 : PY Pyrite, Diss Disseminated, 1% 96.54 - 100.00 : PY Pyrite, Blb Blebs, 0.5% weak banding in nose of folds? **Minor Interval:** 100 - 101 ARG, Argillite strong increase is quartz/quartz/carbonate veining. with associated sulfide **Mineralization** 100.00 - 101.00 : PY Pyrite, Diss Disseminated, 2% 100.00 - 101.00 : PY Pyrite, Len Lenses, 3% primarliy in noses of bedding 100.00 - 101.00 : PY Pyrite, SS Stringers, 1% fine quartz/pyrite stringers **Minor Interval:** 101 - 102 ARG, Argillite washout no core recovery

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
73302	110.50	112.00	1.50				
73303	112.00	113.00	1.00				
73304	113.00	114.00	1.00				
73306	114.00	115.00	1.00				
73307	115.00	116.00	1.00				
73308	116.00	117.00	1.00				
73309	117.00	118.00	1.00				
73310	118.00	119.00	1.00				
73311	119.00	120.00	1.00				
73312	120.00	121.50	1.50				

Hole Number: **ESO-06-03**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 102 - 109.9 ARG, Argillite coarser quartz and quartz/carbonate veining running sub parallel to core axis. green soft clayey partings **Mineralization** 102.00 - 109.90 : PY Pyrite, Blb Blebs, 2% 102.00 - 109.90 : PY Pyrite, Diss Disseminated, 1% 102.00 - 109.90 : PY Pyrite, Pat Patches, 2% **Alteration** 102.00 - 109.90 :CA Carbonate, FC Fracture Controlled, MOD Moderate **Minor Interval:** 109.9 - 113.5 ARG, Argillite Quartz and quartz/carbonate veining increasing with associated sulfides. Alteration changing from fracture controlled to pervasive. Alteration / sulphidization increasing with depth. Veining also increasing with depth. Graditional contact into fracture dominated zone. A single 3 cm massive sulfide band cuts the core 112.85-112.95. Band cuts at 10°-15° to core axis. **Mineralization** 109.90 - 113.50 : PY Pyrite, Diss Disseminated, 2% 109.90 - 113.50 : PY Pyrite, Blb Blebs, 2% 109.90 - 113.50 : PY Pyrite, Len Lenses, 4% 109.90 - 113.50 : CP Chalcopyrite, Diss Disseminated, 0.05% associated with pyrite bands **Alteration** 109.90 - 113.50 :CA Carbonate, Pervasiv Pervasive, PEV Weak 109.90 - 113.50 :CA Carbonate, FC Fracture Controlled, STG Strong								

Hole Number: **ESO-06-03**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 113.5 - 117 ARG, Argillite This is a highly fractured zone but shows little or no rotation / rounding of fragments. Quartz and quartz/carbonate has filled the fractures. Ankerite is mixed in the quartz as coliform blebs. Sulphidization is strong. **Texture** 113.50 - 117.00 : B Breccia very fractured but no rotation of fragments **Mineralization** 113.50 - 117.00 : PY Pyrite, Blb Blebs, 3% 113.50 - 117.00 : PY Pyrite, Diss Disseminated, 2% 113.50 - 117.00 : PY Pyrite, Len Lenses, 5% 113.50 - 117.00 : ASP Arsenopyrite, Diss Disseminated, 0.1% possible very fine grained 113.50 - 117.00 : SPH Sphalerite, Blb Blebs, 0.1% 2 clusters of red/brown crystals 113.50 - 117.00 : CA Carbonate, Pat Patches, 10% blobs of ankerite common. **Alteration** 113.50 - 117.00 :CA Carbonate, Pervasiv Pervasive, MOD Moderate 113.50 - 117.00 :CA Carbonate, FC Fracture Controlled, INT Intense **Structure** 113.50 - 117.00 **Minor Interval:** 117 - 117.75 CQV, Quartz-carbonate vein Total replacement by quartz/carbonate and sulfide. No relic textures. Strong sulfide. Pyrite euhedral crystals in dark gray very fine sulfide? matrix **Mineralization** 117.00 - 117.75 : SPH Sphalerite, Blb Blebs, 0.1% few small blebs of red/brown crystals 117.00 - 117.75 : ASP Arsenopyrite, Blb Blebs, 1% 117.00 - 117.75 : ASP Arsenopyrite, Pat Patches, 2% 117.00 - 117.75 : PY Pyrite, Blb Blebs, 2% 117.00 - 117.75 : PY Pyrite, Len Lenses, 4% 117.00 - 117.75 : PY Pyrite, Pat Patches, 3% 117.00 - 117.75 : CP Chalcopyrite, Blb Blebs, 0.25% minor patches mixed with pyrite, questionable **Minor Interval:** 117.75 - 120.25 ARG, Argillite Light greenish gray to white fine grained argillite. This section has been intensely carbonate altered. There is strong banding of light colored ankerite in a green carbonate matrix.. Veining and/or banding parallel to bedding is common. Sulfide content is lower than previous section. Alteration decreases with depth								

Hole Number: **ESO-06-03**

Units: METRIC

Detailed Lithology

From	To	Lithology
120.25	146.80	**ARBIF, Argillitic iron formation** Dark green to dark gray fine grained argillic iron foirmation. The unit is thinly bedded with common white and black chert bands. Bedding is usually well defined, cutting the core at a 15°-20° angle. The unit is variably magnetic, at time very intensely. There are minor thin beds of magnetite. Quartz and quartz/carbonate veining are usually weak. Alteration is varible but usually weak also. **RQD** 123.00 - 126.00 : 100.00 % RQD 100.00 % Core 3 m recovered 126.00 - 129.00 : 100.00 % RQD 100.00 % Core 3 m recovered 129.00 - 132.00 : 100.00 % RQD 100.00 % Core 3 m recovered 132.00 - 135.00 : 100.00 % RQD 100.00 % Core 3 m recovered 135.00 - 138.00 : 100.00 % RQD 100.00 % Core 3 m recovered 138.00 - 141.00 : 100.00 % RQD 100.00 % Core 3 m recovered 141.00 - 144.00 : 100.00 % RQD 100.00 % Core 3 m recovered 144.00 - 147.00 : 100.00 % RQD 100.00 % Core 3 m recovered **MINOR INTERVALS:** **Minor Interval:** 120.25 - 121 ARBIF, Argillitic iron formation Sulfide content and alteration drop. Minor banding and disseminated pyrite. Zoning in bands of chalcopyrite to pyrite to arsenopyrite? **Mineralization** 120.25 - 121.00 : PY Pyrite, Diss Disseminated, 1% 120.25 - 121.00 : PY Pyrite, Len Lenses, 4% 120.25 - 121.00 : ASP Arsenopyrite, Len Lenses, 1% 120.25 - 121.00 : CP Chalcopyrite, Len Lenses, 0.5% **Alteration** 120.25 - 121.00 :CA Carbonate, Pervasiv Pervasive, MOD Moderate

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
73313	121.50	123.00	1.50				
73314	123.00	124.50	1.50				
73316	124.50	126.00	1.50				
73317	126.00	127.50	1.50				
73318	127.50	129.00	1.50				
73319	129.00	130.50	1.50				
73320	130.50	132.00	1.50				
73321	132.00	133.50	1.50				
73322	133.50	135.00	1.50				
73323	135.00	136.50	1.50				
73324	136.50	138.00	1.50				
73326	138.00	139.00	1.00				
73327	139.00	140.00	1.00				
73328	140.00	141.00	1.00				
73329	141.00	142.00	1.00				
73330	142.00	143.00	1.00				
73331	143.00	144.00	1.00				
73332	144.00	145.00	1.00				
73334	145.00	146.00	1.00				
73336	146.00	147.00	1.00				

Hole Number: **ESO-06-03**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 121 - 125.5 ARBIF, Argillitic iron formation Green to dark gray banded of iron formation. Occasional white bands may be veining or bedding. Sulfide bands that look formational (rather than veining or alteration) occur. Unit is highly magnetic with occasional chert and magnetite bands. **Mineralization** 121.00 - 125.50 : PY Pyrite, Diss Disseminated, 1% 121.00 - 125.50 : PY Pyrite, Blb Blebs, 2% 121.00 - 125.50 : PY Pyrite, Pat Patches, 3% 121.00 - 125.50 : ASP Arsenopyrite, Blb Blebs, 0.5% **Minor Interval:** 125.5 - 132 ARBIF, Argillitic iron formation Off white to light gray zone of banded iron formation. There is a much higher silica content to this zone which may be due to alteration. Zone is more massive and has common quartz/carbonate veining/flooding. Ankerite and the green iron carbonate are common. Minor amounts of sericite also appear. **Mineralization** 125.50 - 132.00 : PY Pyrite, Blb Blebs, 1% 125.50 - 132.00 : PY Pyrite, Clst Clasts, 3% 125.50 - 132.00 : PY Pyrite, Diss Disseminated, 1% 125.50 - 132.00 : PY Pyrite, Len Lenses, 3% 125.50 - 132.00 : ASP Arsenopyrite, Diss Disseminated, 1% small blebs, widely scattered 125.50 - 132.00 : CP Chalcopyrite, Diss Disseminated, 0.1% associated with stringers of pyrite 125.50 - 132.00 : PY Pyrite, SS Stringers, 2% **Alteration** 125.50 - 132.00 :CA Carbonate, Pervasiv Pervasive, STG Strong 125.50 - 132.00 :SR Sericite, Pervasiv Pervasive, PEV Weak **Minor Interval:** 132 - 138.5 ARBIF, Argillitic iron formation Darker gray zone. Much less carbonate flooding. Slight increase in sericite. Sulfide content down and widely scattered **Mineralization** 132.00 - 138.50 : PY Pyrite, Blb Blebs, 1% 132.00 - 138.50 : PY Pyrite, Diss Disseminated, 1% 132.00 - 138.50 : PY Pyrite, Clst Clasts, 2% **Alteration** 132.00 - 138.50 :CA Carbonate, Pervasiv Pervasive, PEV Weak 132.00 - 138.50 :SR Sericite, Pervasiv Pervasive, PEV Weak								

DETAILED LOG

Hole Number: **ESO-06-03**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 138.5 - 145 ARBIF, Argillitic iron formation Off white to light gray zone of banded iron formation. Magnetic component is lower. There is a much higher silica content to this zone which may be due to alteration. Zone is more massive and has common quartz/carbonate veining/flooding. Ankerite and the green iron carbonate are common. Minor amounts of sericite also appear. Is this a repeat of 125.5-132? **Minor Interval:** 145 - 146.8 ARBIF, Argillitic iron formation								

Hole Number: **ESO-06-03**

Units: METRIC

Detailed Lithology

From	To	Lithology
146.80	157.35	**CQV, Quartz-carbonate vein** White to light greenish gray fine to medium grained quartz/carbonate/sulfide vein. This zone has been totally replaced with quartz/carbonate/sulfide. There are no relic textures. The quartz varies from a fine grained white sugary textured quartz to a blue gray amorphous quartz. The blue gray seem to be earlier and has less carbonate component. The carbonate component is greater on the outside edges of the vein. Ankerite and a green iron carbonate are common near the contacts. Near the center of the zone minor clots of ankerite are common but in much smaller amounts. Sulfides dominate the zone, at times becoming nearly massive. **Mineralization** 146.80 - 157.35 : ASP Arsenopyrite, Blb Blebs, 2% 146.80 - 157.35 : ASP Arsenopyrite, Diss Disseminated, 1% 146.80 - 157.35 : ASP Arsenopyrite, Len Lenses, 4% 146.80 - 157.35 : PY Pyrite, Blb Blebs, 4% 146.80 - 157.35 : PY Pyrite, Diss Disseminated, 2% 146.80 - 157.35 : PY Pyrite, Len Lenses, 5% 146.80 - 157.35 : PY Pyrite, Perv Pervasive, 5% 146.80 - 157.35 : SPH Sphalerite, Blb Blebs, 0.5% red brown to orange brown fine crystals in occasional scattered blebs **Alteration** 146.80 - 157.35 :CA Carbonate, Pervasiv Pervasive, STG Strong 146.80 - 157.35 :SI Silica, Pervasiv Pervasive, INT Intense **RQD** 147.00 - 150.00 : 100.00 % RQD 100.00 % Core 3 m recovered 150.00 - 153.00 : 100.00 % RQD 100.00 % Core 3 m recovered 153.00 - 156.00 : 100.00 % RQD 100.00 % Core 3 m recovered 156.00 - 159.00 : 100.00 % RQD 100.00 % Core 3 m recovered

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
73337	147.00	148.00	1.00				
73338	148.00	149.00	1.00				
73339	149.00	150.00	1.00				
73341	150.00	151.00	1.00				
73342	151.00	152.00	1.00				
73343	152.00	153.00	1.00				
73344	153.00	154.00	1.00				
73346	154.00	155.00	1.00				
73347	155.00	156.00	1.00				
73349	156.00	157.00	1.00				
73350	157.00	158.50	1.50				

Hole Number: **ESO-06-03**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 146.8 - 148.5 CQV, Quartz-carbonate vein Graditional contact from BIF to vein. Some displaced wallrock fragments with alteration extending into BIF. Sulfides are com monly banded with ankerite and a green iron carbonate. Sulfide content is high and increasing. **Mineralization** 146.80 - 148.50 : ASP Arsenopyrite, Blb Blebs, 1% 146.80 - 148.50 : ASP Arsenopyrite, Diss Disseminated, 1% 146.80 - 148.50 : ASP Arsenopyrite, Len Lenses, 3% 146.80 - 148.50 : ASP Arsenopyrite, Pat Patches, 3% 146.80 - 148.50 : PY Pyrite, Blb Blebs, 2% 146.80 - 148.50 : PY Pyrite, Len Lenses, 5% 146.80 - 148.50 : PY Pyrite, Pat Patches, 4% 146.80 - 148.50 : PY Pyrite, Diss Disseminated, 2% 146.80 - 148.50 : PY Pyrite, Perv Pervasive, 4% 146.80 - 148.50 : SPH Sphalerite, Blb Blebs, 0.5% small blebs with fine red brown crystals **Alteration** 146.80 - 148.50 :CA Carbonate, Pervasiv Pervasive, STG Strong 146.80 - 148.50 :SI Silica, Pervasiv Pervasive, STG Strong **Minor Interval:** 148.5 - 149.85 CQV, Quartz-carbonate vein This is the quartz dominent zone. Quartz is primarily white with a sugary texture. Minor anhedral clots of ankerite were identified. Sulfide content is high becoming nearly massive in spots. **Mineralization** 148.50 - 149.85 : ASP Arsenopyrite, Blb Blebs, 2% 148.50 - 149.85 : ASP Arsenopyrite, Diss Disseminated, 2% 148.50 - 149.85 : ASP Arsenopyrite, Len Lenses, 4% 148.50 - 149.85 : ASP Arsenopyrite, Pat Patches, 4% 148.50 - 149.85 : PY Pyrite, Blb Blebs, 3% 148.50 - 149.85 : PY Pyrite, Diss Disseminated, 2% 148.50 - 149.85 : PY Pyrite, Len Lenses, 5% 148.50 - 149.85 : PY Pyrite, Pat Patches, 5% 148.50 - 149.85 : PY Pyrite, SS Stringers, 3% 148.50 - 149.85 : ASP Arsenopyrite, SS Stringers, 1% 148.50 - 149.85 : SPH Sphalerite, Blb Blebs, 0.5% **Alteration** 148.50 - 149.85 :CA Carbonate, Pervasiv Pervasive, MOD Moderate 148.50 - 149.85 :SI Silica, Pervasiv Pervasive, INT Intense								

Hole Number: **ESO-06-03**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 149.85 - 153.1 CQV, Quartz-carbonate vein **Mineralization** 149.85 - 153.10 : ASP Arsenopyrite, Blb Blebs, 1% 149.85 - 153.10 : ASP Arsenopyrite, Diss Disseminated, 1% 149.85 - 153.10 : ASP Arsenopyrite, Pat Patches, 3% 149.85 - 153.10 : ASP Arsenopyrite, Len Lenses, 5% 149.85 - 153.10 : PY Pyrite, Blb Blebs, 2% 149.85 - 153.10 : PY Pyrite, Diss Disseminated, 2% 149.85 - 153.10 : PY Pyrite, Len Lenses, 6% 149.85 - 153.10 : PY Pyrite, Pat Patches, 6% 149.85 - 153.10 : PY Pyrite, SS Stringers, 2% 149.85 - 153.10 : ASP Arsenopyrite, SS Stringers, 1% 149.85 - 153.10 : SPH Sphalerite, Blb Blebs, 0.5% **Alteration** 149.85 - 153.10 :CA Carbonate, Pervasiv Pervasive, INT Intense 149.85 - 153.10 :SI Silica, Pervasiv Pervasive, STG Strong **Minor Interval:** 153.1 - 156.6 CQV, Quartz-carbonate vein This is the quartz dominent zone. Quartz is primarily white with a sugary texture. Minor anhedral clots of ankerite were identified. Sulfide content is high becoming nearly massive in spots. **Mineralization** 153.10 - 156.60 : ASP Arsenopyrite, Blb Blebs, 1% 153.10 - 156.60 : ASP Arsenopyrite, Diss Disseminated, 1% 153.10 - 156.60 : ASP Arsenopyrite, Len Lenses, 3% 153.10 - 156.60 : ASP Arsenopyrite, Pat Patches, 3% 153.10 - 156.60 : ASP Arsenopyrite, SS Stringers, 1% 153.10 - 156.60 : PY Pyrite, Blb Blebs, 2% 153.10 - 156.60 : PY Pyrite, Len Lenses, 5% 153.10 - 156.60 : PY Pyrite, Pat Patches, 5% 153.10 - 156.60 : PY Pyrite, SS Stringers, 3% 153.10 - 156.60 : SPH Sphalerite, Blb Blebs, 0.5% **Alteration** 153.10 - 156.60 :CA Carbonate, Pervasiv Pervasive, STG Strong 153.10 - 156.60 :SI Silica, Pervasiv Pervasive, INT Intense **Minor Interval:** 156.6 - 157.35 CQV, Quartz-carbonate vein Graditional contact from vein to BIF. Some displaced wallrock fragments with alteration extending into BIF. Sulfides are commonly banded with ankerite and a green iron carbonate. Sulfide content is high but decreasing into the wallrock.								

DETAILED LOG

Hole Number: **ESO-06-03**

Units: METRIC

Detailed Lithology

From	To	Lithology
157.35	163.58	**ARBIF, Argillitic iron formation** Off white to gray fine grained argillic iron foirmation. The unit is somewhat massive with occasional thindarker more magnetic bands. Bedding is usually poorly defined, cutting the core at a 15*-20* angle. The unit is variably magnetic. There are minor thin beds of magnetite and pyrite bands. Quartz and quartz/carbonate veining are usually weak. Alteration is intense with strong carbonitization. Whispy ankerite and more massive green iron carbonate have flooded the zone. Sulfidization is weak but above background.. **Mineralization** 157.35 - 163.58 : ASP Arsenopyrite, Diss Disseminated, 0.5% 157.35 - 163.58 : PY Pyrite, Blb Blebs, 2% 157.35 - 163.58 : PY Pyrite, Diss Disseminated, 1% **Alteration** 157.35 - 163.58 :CA Carbonate, Pervasiv Pervasive, STG Strong 157.35 - 163.58 :SI Silica, Pervasiv Pervasive, MOD Moderate **RQD** 159.00 - 162.00 : 100.00 % RQD 100.00 % Core 3 m recovered 162.00 - 165.00 : 100.00 % RQD 100.00 % Core 3 m recovered

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
73351	158.50	160.00	1.50				
73352	160.00	161.50	1.50				
73353	161.50	163.00	1.50				
73354	163.00	164.00	1.00				

Hole Number: **ESO-06-03**

Units: METRIC

Detailed Lithology

From	To	Lithology
163.58	177.00	**CQV, Quartz-carbonate vein** White to light greenish gray fine to medium grained quartz/carbonate/sulfide vein. This zone has been totally replaced with quartz/carbonate/sulfide. There are no relic textures. The quartz varies from a fine grained white sugary textured quartz to a blue gray amorphous quartz. The blue gray seem to be earlier and has less carbonate component. The carbonate component is greater on the outside edges of the vein. Ankerite and a green iron carbonate are common near the contacts. Near the center of the zone minor clots of ankerite are common but in much smaller amounts. Sulfides dominate the zone, at times becoming nearly massive. **Mineralization** 163.58 - 177.00 : ASP Arsenopyrite, Blb Blebs, 2% 163.58 - 177.00 : ASP Arsenopyrite, Diss Disseminated, 2% 163.58 - 177.00 : ASP Arsenopyrite, Len Lenses, 4% 163.58 - 177.00 : ASP Arsenopyrite, Pat Patches, 4% 163.58 - 177.00 : ASP Arsenopyrite, SS Stringers, 2% 163.58 - 177.00 : PY Pyrite, Diss Disseminated, 3% 163.58 - 177.00 : PY Pyrite, Blb Blebs, 3% 163.58 - 177.00 : PY Pyrite, Len Lenses, 6% 163.58 - 177.00 : PY Pyrite, Pat Patches, 6% 163.58 - 177.00 : PY Pyrite, SS Stringers, 3% 163.58 - 177.00 : SPH Sphalerite, SS Stringers, 0.25% 163.58 - 177.00 : SPH Sphalerite, Blb Blebs, 0.25% **Alteration** 163.58 - 177.00 :CA Carbonate, Pervasiv Pervasive, STG Strong 163.58 - 177.00 :SI Silica, Pervasiv Pervasive, INT Intense **RQD** 165.00 - 168.00 : 100.00 % RQD 100.00 % Core 3 m recovered 168.00 - 171.00 : 100.00 % RQD 100.00 % Core 3 m recovered 171.00 - 174.00 : 100.00 % RQD 100.00 % Core 3 m recovered 174.00 - 177.00 : 100.00 % RQD 100.00 % Core 3 m recovered

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
73356	164.00	165.00	1.00				
73357	165.00	166.00	1.00				
73358	166.00	167.00	1.00				
73359	167.00	168.00	1.00				
73360	168.00	169.00	1.00				
73361	169.00	170.00	1.00				
73363	170.00	171.00	1.00				
73364	171.00	172.00	1.00				
73366	172.00	173.00	1.00				
73367	173.00	174.00	1.00				
73369	174.00	175.00	1.00				
73370	175.00	176.00	1.00				
73371	176.00	177.00	1.00				

Hole Number: **ESO-06-03**

Units: METRIC

Detailed Lithology

From	To	Lithology
177.00	201.50	**ARBIF, Argillitic Iron formation** Off white to greenish gray to gray fine grained argillic iron foirmation. The unit is somewhat massive with occasional thin darker more magnetic bands. There are some very siliceous bands with possible primary pyrite. Bedding is usually well defined, cutting the core at a 15*-20* angle. The unit is variably magnetic. There are minor thin beds of magnetite. Lower contact is graditional into nonmagnetic argillite. Quartz and quartz/carbonate veining are usually weak. Alteration ismoderate primarily by carbonitization. Whispy ankerite and minor green iron carbonate have flooded the zone. Sulfidization is weak but above background. **Mineralization** 177.00 - 186.00 : ASP Arsenopyrite, Blb Blebs, 1% 177.00 - 186.00 : ASP Arsenopyrite, Diss Disseminated, 0.5% 177.00 - 186.00 : PY Pyrite, Blb Blebs, 2% 177.00 - 186.00 : PY Pyrite, Diss Disseminated, 1% 177.00 - 186.00 : PY Pyrite, SS Stringers, 1% **Alteration** 177.00 - 186.00 :CA Carbonate, Pervasiv Pervasive, STG Strong 177.00 - 186.00 :SI Silica, Pervasiv Pervasive, MOD Moderate **RQD** 177.00 - 180.00 : 100.00 % RQD 100.00 % Core 3 m recovered 180.00 - 183.00 : 100.00 % RQD 100.00 % Core 3 m recovered 183.00 - 186.00 : 100.00 % RQD 100.00 % Core 3 m recovered 186.00 - 189.00 : 100.00 % RQD 100.00 % Core 3 m recovered 189.00 - 192.00 : 100.00 % RQD 100.00 % Core 3 m recovered 192.00 - 195.00 : 100.00 % RQD 100.00 % Core 3 m recovered 195.00 - 198.00 : 100.00 % RQD 100.00 % Core 3 m recovered 198.00 - 201.00 : 100.00 % RQD 100.00 % Core 3 m recovered 201.00 - 204.00 : 100.00 % RQD 100.00 % Core 3 m recovered

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
73372	177.00	178.00	1.00				
73373	178.00	179.00	1.00				
73374	179.00	180.00	1.00				
73376	180.00	181.00	1.00				
73377	181.00	182.00	1.00				
73378	182.00	183.00	1.00				
73379	183.00	184.50	1.50				
73380	184.50	186.00	1.50				
73381	186.00	187.50	1.50				
73382	187.50	189.00	1.50				
73383	189.00	190.50	1.50				
73384	190.50	192.00	1.50				
73386	192.00	193.50	1.50				
73387	193.50	195.00	1.50				
73388	195.00	196.50	1.50				
73389	196.50	198.00	1.50				

Hole Number: **ESO-06-03**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 191.8 - 192.6 CQV, Quartz-carbonate vein Quartz/carbonate flooded zone. Minor relic bedding. Increased sulfides. **Mineralization** 191.80 - 192.60 : PY Pyrite, Blb Blebs, 3% 191.80 - 192.60 : PY Pyrite, Diss Disseminated, 1% 191.80 - 192.60 : ASP Arsenopyrite, Blb Blebs, 1% **Alteration** 191.80 - 192.60 :CA Carbonate, Pervasiv Pervasive, STG Strong **Minor Interval:** 194 - 196 ARBIF, Argillitic iron formation Several bands of iron oxide within the iron formation.								
201.50	208.50	**ARG, Argillite** Dark gray to black fine grained argillite.This unit is very thinly bedded. It commonly parts along bedding with chloritic or graphitic partings.The unit has a weak carbonate component that suggests weak carbonitization. In place the alteration becomes intense. See minor details. Quartz and quartz/carbonate veinin is common. Several stages or periods of veining are evident. Sulfide content is variable with 1-2% pyrite as background. **RQD** 204.00 - 207.00 : 100.00 % RQD 100.00 % Core 3 m recovered 207.00 - 210.00 : 100.00 % RQD 100.00 % Core 3 m recovered								
208.50	219.00	**SLTST, Siltstone** In a graditional contact with the argillite there is a gradual coarsening of grain size with depth. Bedding thickens and the rock is more massive. A few 1 cm to 2 cm arkosic or sandstone beds The unit is composed of fine to medium grained quartz grainsin an amphibole matrix. Bedding is variable in thickness but cuts the core at a shallow (5*-15*) to the core axis. The unit is not magnetic. Alteration, veining, and mineralization are minimal. **RQD** 210.00 - 213.00 : 100.00 % RQD 100.00 % Core 3 m recovered 213.00 - 216.00 : 100.00 % RQD 100.00 % Core 3 m recovered 216.00 - 219.00 : 100.00 % RQD 100.00 % Core 3 m recovered								

Hole Number: **ESO-06-03**

Units: METRIC

Detailed Lithology

From	To	Lithology
219.00	279.50	**WACKE, Wacke** Graditional contact with fine to medium grained sediments. The unit is composed of quartz grains and white feldspar crystals in a very fine grained matrix. of amphibole. Bedding is fairly well defined and cuts the core axis at about 30* or shallower. Some thin white silica bands (chemical percipitates?) cut the core parallel to bedding. Development of quartz on the fold noses appeares to be metamorphic and is accompanied by a slight increase of pyrite. Alteration and mineralization are minimal. **RQD** 219.00 - 222.00 : 100.00 % RQD 100.00 % Core 3 m recovered 222.00 - 225.00 : 100.00 % RQD 100.00 % Core 3 m recovered 225.00 - 228.00 : 100.00 % RQD 100.00 % Core 3 m recovered 228.00 - 231.00 : 100.00 % RQD 100.00 % Core 3 m recovered 231.00 - 234.00 : 100.00 % RQD 100.00 % Core 3 m recovered' 234.00 - 237.00 : 100.00 % RQD 100.00 % Core 3 m recovered 237.00 - 240.00 : 100.00 % RQD 100.00 % Core 3 m recovered 240.00 - 243.00 : 100.00 % RQD 100.00 % Core 3 m recovered 243.00 - 246.00 : 100.00 % RQD 100.00 % Core 3 m recovered 246.00 - 249.00 : 100.00 % RQD 98.00 % Core 2.94 m recovered 249.00 - 252.00 : 100.00 % RQD 100.00 % Core 3 m recovered 252.00 - 255.00 : 100.00 % RQD 100.00 % Core 3 m recovered 255.00 - 258.00 : 100.00 % RQD 100.00 % Core 3 m recovered 258.00 - 261.00 : 100.00 % RQD 97.00 % Core 2.9 m recovered 261.00 - 264.00 : 100.00 % RQD 100.00 % Core 3 m recovered 264.00 - 267.00 : 100.00 % RQD 100.00 % Core 3 m recovered 267.00 - 270.00 : 100.00 % RQD 100.00 % Core 3 m recovered 270.00 - 273.00 : 100.00 % RQD 100.00 % Core 3 m recovered

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
73390	252.50	254.00	1.50				
73391	254.00	255.00	1.00				
73392	255.00	256.50	1.50				
73393	256.50	258.00	1.50				
73394	267.00	268.00	1.00				
73396	268.00	269.00	1.00				
73397	269.00	270.00	1.00				
73398	270.00	271.75	1.75				
73399	271.75	272.50	0.75				
73400	272.50	273.50	1.00				
73401	273.50	274.50	1.00				
73402	274.50	275.50	1.00				
73403	275.50	276.50	1.00				
73404	276.50	277.50	1.00				
73406	277.50	279.00	1.50				

Hole Number: **ESO-06-03**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		RQD 273.00 - 276.00 : 100.00 % RQD 100.00 % Core 3 m recovered 276.00 - 279.00 : 100.00 % RQD 100.00 % Core 3 m recovered 279.00 - 282.00 : 100.00 % RQD 100.00 % Core 3 m recovered **MINOR INTERVALS:** **Minor Interval:** 243 - 244 PBCONG, Pebble conglomerate thin interval of pebble conglomerate **Minor Interval:** 249.5 - 250 PBCONG, Pebble conglomerate Thin interval with a scattering of pebbles **Minor Interval:** 250 - 259 WACKE, Wacke About 250 m minor amounts of sericite begin to appear. The interval hardens and appears almost glossy. Silica increases accompanied with a minor amount of pyrite. The zone fades and disappears by 259 m. **Alteration** 250.00 - 259.00 :SR Sericite, Pervasiv Pervasive, MOD Moderate 250.00 - 259.00 :SI Silica, Pervasiv Pervasive, PEV Weak **Minor Interval:** 266 - 270.25 SNSTN, Sandstone Light greenish gray medium grained sandstone. The rock consists of quartz grains in a green amphibole matrix. The increased porosity has slightly increased the sulfide content. Trace amounts of arsenopyrite were recognized. The relic bedding cuts the core axis at a 10* - 15* angle. The unit appears weakly potassically altered. Sericite is common. Fine white feldspar crystals line the minor veins cutting the core. Stronger veining cuts the core at 268.10 to 269.90. This is a relatively thin vein cutting the core at a very low angle (10*-15*). The vein is white milky quartz that looks barren. Minor sulfide is included in the vein. Perhaps 1-2% pyrite exists in veinlets cutting the vein. **Mineralization** 266.00 - 270.25 : PY Pyrite, Blb Blebs, 2% 266.00 - 270.25 : ASP Arsenopyrite, Diss Disseminated, 0.01% 266.00 - 270.25 : PY Pyrite, Diss Disseminated, 1% **Alteration** 266.00 - 270.25 :SR Sericite, Pervasiv Pervasive, MOD Moderate **Minor Interval:** 271.85 - 272.4 CQV, Quartz-carbonate vein A white milky quartz vein cuts the core at a low (10*-15*) angle. It appears barren.									

Hole Number: **ESO-06-03**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 272.4 - 277.46 CQV, Quartz-carbonate vein A white milky quartz/carbonate vein cuts the core at a low (10*-15*) angle. This vein has common patches of ankerite and green iron carbonate whispy bands. Sulfides are much more common but appear to be late in the vein growth. Most of the sulfides appear fracture controlled but are contained only in the vein. **Mineralization** 272.40 - 277.46 : PY Pyrite, SS Stringers, 5% 272.40 - 277.46 : PY Pyrite, Diss Disseminated, 1% 272.40 - 277.46 : PY Pyrite, Blb Blebs, 3% **Minor Interval:** 277.46 - 279.5 WACKE, Wacke Graditional contact between the wacke and argillite. A slow fine of the sediments. Bedding is becoming better defined and thinner.								

Hole Number: **ESO-06-03**

Units: METRIC

Detailed Lithology

From	To	Lithology
279.50	351.00	**ARG, Argillite** Dark gray to black fine grained argillite.This unit is very thinly bedded. It commonly parts along bedding with graphitic partings.The unit has a weak carbonate component that suggests weak carbonitization. In places the alteration becomes moderate. See minor details. Quartz and quartz/carbonate veining occurs. Several stages or periods of veining are evident. Sulfide content is variable with 1-2% pyrite as background. Clots of pyrite become larger in alteration zones. **RQD** 282.00 - 285.00 : 100.00 % RQD 100.00 % Core 3 m recovered 285.00 - 288.00 : 100.00 % RQD 100.00 % Core 3 m recovered 288.00 - 291.00 : 100.00 % RQD 93.00 % Core 2.8 m recovered 291.00 - 294.00 : 100.00 % RQD 100.00 % Core 3 m recovered 294.00 - 297.00 : 100.00 % RQD 100.00 % Core 3 m recovered 297.00 - 300.00 : 100.00 % RQD 100.00 % Core 3 m recovered 300.00 - 303.00 : 100.00 % RQD 100.00 % Core 3 m recovered 303.00 - 306.00 : 100.00 % RQD 100.00 % Core 3 m recovered 306.00 - 309.00 : 100.00 % RQD 100.00 % Core 3 m recovered 309.00 - 312.00 : 100.00 % RQD 100.00 % Core 3 m recovered 312.00 - 315.00 : 100.00 % RQD 100.00 % Core 3 m recovered 315.00 - 318.00 : 100.00 % RQD 100.00 % Core 3 m recovered 318.00 - 321.00 : 100.00 % RQD 100.00 % Core 3 m recovered 321.00 - 324.00 : 100.00 % RQD 100.00 % Core 3 m recovered 324.00 - 327.00 : 100.00 % RQD 100.00 % Core 3 m recovered 327.00 - 330.00 : 100.00 % RQD 100.00 % Core 3 m recovered 330.00 - 333.00 : 100.00 % RQD 100.00 % Core 3 m recovered 333.00 - 336.00 : 100.00 % RQD 100.00 % Core 3 m recovered

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
73407	320.00	321.50	1.50				
73408	321.50	322.50	1.00				
73409	322.50	323.50	1.00				
73410	323.50	324.50	1.00				
73411	324.50	326.00	1.50				
73412	326.00	327.50	1.50				
73413	327.50	329.00	1.50				
73414	329.00	330.00	1.00				
73416	330.00	331.50	1.50				
73417	331.50	333.00	1.50				
73418	333.00	334.00	1.00				
73419	334.00	335.50	1.50				
73420	344.50	346.00	1.50				
73421	346.00	347.00	1.00				
73422	347.00	348.00	1.00				
73423	348.00	349.00	1.00				
73424	349.00	350.00	1.00				
73426	350.00	351.00	1.00				

Units: METRIC

Hole Number: **ESO-06-03**

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		RQD 336.00 - 339.00 : 100.00 % RQD 100.00 % Core 3 m recovered 339.00 - 342.00 : 100.00 % RQD 100.00 % Core 3 m recovered 342.00 - 345.00 : 100.00 % RQD 100.00 % Core 3 m recovered 345.00 - 348.00 : 100.00 % RQD 100.00 % Core 3 m recovered 348.00 - 351.00 : 100.00 % RQD 100.00 % Core 3 m recovered **MINOR INTERVALS:** **Minor Interval:** 282.85 - 293 CQV, Quartz-carbonate vein Small quartz/ carbonate vein cuts the core axis at 15*. Weak pyrite with the vein **Minor Interval:** 305.8 - 308.2 SNSTN, Sandstone Fine grained quartz rich sandstone interbed. The interval consists of crudely bedded quartz grains in aminor amphibole matrix. The interval has been weakly quartz/carbonate altered with minor ankerite and weak pyritization. Pyrite content is slightly above background **Mineralization** 305.80 - 308.20 : PY Pyrite, Blb Blebs, 1% 305.80 - 308.20 : PY Pyrite, Diss Disseminated, 2% **Minor Interval:** 317.5 - 317.7 QV, Quartz vein White milky barren quartz vein cuts the core at 90*. **Minor Interval:** 318.5 - 321.6 ARG, Argillite Interval of increasing potassic alteration alteration. There is a strong introduction osf sericite with silicification. Weak increase in pyrite. **Mineralization** 318.50 - 321.60 : PY Pyrite, Blb Blebs, 3% 318.50 - 321.60 : PY Pyrite, Diss Disseminated, 1% **Alteration** 318.50 - 321.60 :SR Sericite, Pervasiv Pervasive, MOD Moderate								

Units: METRIC

Hole Number: **ESO-06-03**

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 321.6 - 322.2 QV, Quartz vein Milky to clear fine grained quartz vein with white feldspar crystals cuts the core at 50*. Minor pyrite is in the vein. Several ruby red crystals of possible sphalerite were seen. **Mineralization** 321.60 - 322.20 : PY Pyrite, Blb Blebs, 3% 321.60 - 322.20 : SPH Sphalerite, Blb Blebs, 0.05% possble, ruby red crystals at one location **Minor Interval:** 322.2 - 323.45 ARG, Argillite Altered argillite, weak sulfide **Minor Interval:** 323.45 - 324.5 QV, Quartz vein Series of, or one vein with lots of wallrock, quartz veins with common pyrite. The vein(s) are white milky quartzwith minor white feldspar. Pyrite is common. **Mineralization** 323.45 - 324.50 : PY Pyrite, Blb Blebs, 5% 323.45 - 324.50 : PY Pyrite, Diss Disseminated, 1% **Minor Interval:** 324.5 - 329.3 ARG, Argillite interval with common fine quartz veining parallel to bedding **Minor Interval:** 329.3 - 329.5 QV, Quartz vein Small quartz/pyrite vein cuts at 15* to the core axis. **Minor Interval:** 329.75 - 329.85 QV, Quartz vein Leached band of sulfide cuts the core axis at a steep angle. Interval was soft and had poor recovery. **Minor Interval:** 330.9 - 333.25 SNSTN, Sandstone thin sandy interval **Minor Interval:** 335.1 - 335.35 QV, Quartz vein Small quartz/pyrite vein cuts at 15* to the core axis. **Minor Interval:** 337 - 341 SNSTN, Sandstone sandy interval slightly increased silicification very little pyrite								

Units: METRIC

Hole Number: **ESO-06-03**

Detailed Lithology

From	To	Lithology	Assay Data							
			Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 341 - 351 ARG, Argillite From 341 m this interval is increasingly altered. This alteration is combined with a probable lithology change. The interval starts in a moderately carbonitized argillite. This argillite is black and thinly bedded. It progresses into a light green to white very fine grained, very thinly bedded possible chemical sediment. Green (iron carbonate?) alteration is dominate along bedding in the top of the interval progressing to a strong quartz/carbonate alteration that is controlled by bedding. There is a possible fold nose between 347 and 349 with strong leaching around 348. sulfides are limited to pyrite. Sulfides appear leached near the top of the interval but increase with depth. Pyrite is common in thin bands that may be chemical precipitants or may be mineralization. Brittle fracturing of thin intervals are filled with late pyrite stringers. **Mineralization** 341.00 - 351.00 : PY Pyrite, Blb Blebs, 3% 341.00 - 351.00 : PY Pyrite, SS Stringers, 3% 341.00 - 351.00 : PY Pyrite, Len Lenses, 2% **Alteration** 341.00 - 351.00 :CA Carbonate, Pervasiv Pervasive, STG Strong							

Samples

Sample Number	From	To	Au gpt	Ag ppm	Zn ppm	Cu ppm
Sample Type **ASSAY**						
73287	51.00	52.50				
73288	52.50	54.00				
73289	54.00	55.00				
73290	55.00	56.00				
73291	56.00	57.00				
73292	57.00	58.50				
73293	75.00	76.50				
73294	76.50	78.00				
73296	78.00	79.50				
73297	79.50	81.00				
73298	81.00	82.50				
73299	82.50	84.00				
73300	94.50	96.10				
73301	96.10	97.50				
73302	110.50	112.00				
73303	112.00	113.00				
73304	113.00	114.00				
73306	114.00	115.00				
73307	115.00	116.00				

Units: METRIC

Hole Number: **ESO-06-03**

Samples

Sample Number	From	To	Au gpt	Ag ppm	Zn ppm	Cu ppm
Sample Type **ASSAY**						
73308	116.00	117.00				
73309	117.00	118.00				
73310	118.00	119.00				
73311	119.00	120.00				
73312	120.00	121.50				
73313	121.50	123.00				
73314	123.00	124.50				
73316	124.50	126.00				
73317	126.00	127.50				
73318	127.50	129.00				
73319	129.00	130.50				
73320	130.50	132.00				
73321	132.00	133.50				
73322	133.50	135.00				
73323	135.00	136.50				
73324	136.50	138.00				
73326	138.00	139.00				
73327	139.00	140.00				
73328	140.00	141.00				
73329	141.00	142.00				
73330	142.00	143.00				
73331	143.00	144.00				
73332	144.00	145.00				
73334	145.00	146.00				
73336	146.00	147.00				
73337	147.00	148.00				
73338	148.00	149.00				
73339	149.00	150.00				
73341	150.00	151.00				
73342	151.00	152.00				
73343	152.00	153.00				
73344	153.00	154.00				
73346	154.00	155.00				
73347	155.00	156.00				
73349	156.00	157.00				
73350	157.00	158.50				
73351	158.50	160.00				
73352	160.00	161.50				

Units: METRIC

Hole Number: **ESO-06-03**

Samples

Sample Number	From	To	Au gpt	Ag ppm	Zn ppm	Cu ppm
Sample Type **ASSAY**						
73353	161.50	163.00				
73354	163.00	164.00				
73356	164.00	165.00				
73357	165.00	166.00				
73358	166.00	167.00				
73359	167.00	168.00				
73360	168.00	169.00				
73361	169.00	170.00				
73363	170.00	171.00				
73364	171.00	172.00				
73366	172.00	173.00				
73367	173.00	174.00				
73369	174.00	175.00				
73370	175.00	176.00				
73371	176.00	177.00				
73372	177.00	178.00				
73373	178.00	179.00				
73374	179.00	180.00				
73376	180.00	181.00				
73377	181.00	182.00				
73378	182.00	183.00				
73379	183.00	184.50				
73380	184.50	186.00				
73381	186.00	187.50				
73382	187.50	189.00				
73383	189.00	190.50				
73384	190.50	192.00				
73386	192.00	193.50				
73387	193.50	195.00				
73388	195.00	196.50				
73389	196.50	198.00				
73390	252.50	254.00				
73391	254.00	255.00				
73392	255.00	256.50				
73393	256.50	258.00				
73394	267.00	268.00				
73396	268.00	269.00				
73397	269.00	270.00				

Aug 18, 2006

DETAILED LOG

Units: METRIC

Hole Number: **ESO-06-03**

Samples

Sample Number	From	To	Au gpt	Ag ppm	Zn ppm	Cu ppm
Sample Type **ASSAY**						
73398	270.00	271.75				
73399	271.75	272.50				
73400	272.50	273.50				
73401	273.50	274.50				
73402	274.50	275.50				
73403	275.50	276.50				
73404	276.50	277.50				
73406	277.50	279.00				
73407	320.00	321.50				
73408	321.50	322.50				
73409	322.50	323.50				
73410	323.50	324.50				
73411	324.50	326.00				
73412	326.00	327.50				
73413	327.50	329.00				
73414	329.00	330.00				
73416	330.00	331.50				
73417	331.50	333.00				
73418	333.00	334.00				
73419	334.00	335.50				
73420	344.50	346.00				
73421	346.00	347.00				
73422	347.00	348.00				
73423	348.00	349.00				
73424	349.00	350.00				
73426	350.00	351.00				

DETAILED LOG

Hole Number: **ESO-06-04** Units: METRIC

Project Name:	Mikwam	Primary Coordinates Grid: UTM:			Destination Coordinates Grid: LOCAL:	Collar Dip:	-55.00
Project Number:	ESO06-MK	North:	5482807.00		North:	Collar Az:	270.00
Location:	Surface	East:	592421.00		East:	Length:	350.00
		Elev:	271.10		Elev:	Start Depth:	0.00
Date Started:	Mar 17, 2006	Collar Survey: N	Plugged: N		Contractor: Heath and Sherwood Drilling Inc.	Final Depth:	350.00
Date Completed:	Mar 21, 2006	Multishot Survey: N	Hole Size: BQ		Core Storage: Mine Site		
		Pulse EM Survey: N	Casing: Left in Hole				

Comments:

Sample Averages

Survey Data

Depth	Azimuth Decimal	Dip Decimal	Test Type	Flag	Comments	Depth	Azimuth Decimal	Dip Decimal	Test Type	Flag	Comments
38.00	286.70	-57.10	ES	OK	roll 89.1 mag field 5856 temp 9.1	**101.00**	300.00	-52.90	ES	OK	roll 64.8 mag field 5831 temp 10.2
200.00	304.30	-49.90	ES	OK	roll 43.3 mag field 5779 temp 12.3	**299.00**	308.00	-46.20	ES	OK	roll 139.4 mag field 5761 temp 12.8

Detailed Lithology

From	To	Lithology	Assay Data: Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
0	26.00	**OB, Overburden**								
26.00	40.50	**WACKE, Wacke** Light green to tan fine grained wacke. The interval is thinly bedded. Bedding cuts the core at 20*.The intervals consists of fine quartz and felds[par grains in a clay matrix. The unit has been subjected to greenschist metamorphism. It is in graditional contact with an argillite. The interval is cut by a few quartz and quartz/carbonate veins. Background sulfide appears to be about 1% finely disseminated euhedral pyrite **RQD** 26.00 - 29.00 : 100.00 % RQD 57.00 % Core 1.72 m recovered 29.00 - 32.00 : 100.00 % RQD 55.00 % Core 1.64 m recovered 32.00 - 35.00 : 100.00 % RQD 47.00 % Core 1.4 m recovered 35.00 - 38.00 : 100.00 % RQD 93.00 % Core 2.8 m rec overed 38.00 - 41.00 : 100.00 % RQD 97.00 % Core 2.9 m recovered								

Hole Number: **ESO-06-04**

Units: METRIC

Detailed Lithology

From	To	Lithology
40.50	149.75	**ARG, Argillite** Dark gray to black fine grained argillite. The rock consists of fine grained amphibole. The unit is thinly bedded with bedding cutting the core axis at angles from 15* to 40*. The interval is primarily unaltered but does have thin zones of silicification and pyritization. See details. **RQD** 41.00 - 44.00 : 100.00 % RQD 100.00 % Core 3 m recovered 44.00 - 47.00 : 100.00 % RQD 100.00 % Core 3 m recovered 47.00 - 50.00 : 100.00 % RQD 100.00 % Core 2.8 m recovered 50.00 - 53.00 : 100.00 % RQD 100.00 % Core 2.6 m recovered 53.00 - 56.00 : 100.00 % RQD 100.00 % Core 2.9 m recovered 56.00 - 59.00 : 100.00 % RQD 100.00 % Core 3 m recovered 59.00 - 62.00 : 100.00 % RQD 100.00 % Core 3 m recovered 62.00 - 65.00 : 100.00 % RQD 100.00 % Core 3 m recovered 65.00 - 68.00 : 100.00 % RQD 100.00 % Core 3 m recovered 68.00 - 71.00 : 100.00 % RQD 100.00 % Core 3 m recovered 71.00 - 74.00 : 100.00 % RQD 100.00 % Core 3 m recovered 74.00 - 77.00 : 100.00 % RQD 100.00 % Core 3 m recovered 77.00 - 80.00 : 100.00 % RQD 100.00 % Core 3 m recovered 80.00 - 83.00 : 100.00 % RQD 100.00 % Core 3 m recovered 83.00 - 86.00 : 100.00 % RQD 100.00 % Core 3 m recovered 86.00 - 89.00 : 100.00 % RQD 100.00 % Core 3 m recovered 89.00 - 92.00 : 100.00 % RQD 100.00 % Core 3 m recovered 92.00 - 95.00 : 100.00 % RQD 100.00 % Core 3 m recovered 95.00 - 98.00 : 100.00 % RQD 100.00 % Core 3 m recovered

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
73427	75.50	77.00	1.50				
73428	77.00	78.00	1.00				
73429	78.00	79.00	1.00				
73430	79.00	80.00	1.00				
73431	80.00	81.00	1.00				
73432	81.00	82.00	1.00				
73433	82.00	83.00	1.00				
73434	83.00	84.00	1.00				
73436	84.00	85.00	1.00				
73437	85.00	86.00	1.00				
73438	86.00	87.50	1.50				
73439	96.50	98.00	1.50				
73440	98.00	99.00	1.00				
73441	99.00	100.50	1.50				
73442	106.00	107.50	1.50				
73443	107.50	108.50	1.00				
73444	108.50	110.00	1.50				
73446	110.00	111.50	1.50				
73447	111.50	113.00	1.50				
73448	113.00	114.50	1.50				
73449	114.50	116.00	1.50				
73450	116.00	117.50	1.50				
73451	117.50	119.00	1.50				
73452	119.00	120.50	1.50				
73453	120.50	122.00	1.50				
73454	122.00	123.50	1.50				
73456	123.50	125.00	1.50				
73457	125.00	126.50	1.50				
73458	126.50	128.00	1.50				
73459	128.00	129.00	1.00				
73460	129.00	130.00	1.00				
73461	130.00	131.00	1.00				
73462	131.00	132.00	1.00				
73463	132.00	133.00	1.00				
73464	133.00	134.00	1.00				
73466	134.00	135.50	1.50				

Hole Number: **ESO-06-04**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		RQD 98.00 - 101.00 : 100.00 % RQD 100.00 % Core 3 m recovered 101.00 - 104.00 : 100.00 % RQD 93.00 % Core 2.8 m recovered 104.00 - 107.00 : 100.00 % RQD 100.00 % Core 3 m recovered 107.00 - 110.00 : 100.00 % RQD 100.00 % Core 3 m recovered 110.00 - 113.00 : 100.00 % RQD 100.00 % Core 3 m recovered 113.00 - 116.00 : 100.00 % RQD 100.00 % Core 2.8 m recovered 116.00 - 119.00 : 100.00 % RQD 100.00 % Core 3 m recovered 119.00 - 122.00 : 100.00 % RQD 100.00 % Core 3 m recovered 122.00 - 125.00 : 100.00 % RQD 100.00 % Core 3 m recovered 125.00 - 128.00 : 100.00 % RQD 100.00 % Core 3 m recovered 128.00 - 131.00 : 100.00 % RQD 100.00 % Core 3 m recovered 131.00 - 134.00 : 100.00 % RQD 100.00 % Core 3 m recovered 134.00 - 137.00 : 100.00 % RQD 100.00 % Core 3 m recovered 137.00 - 140.00 : 100.00 % RQD 100.00 % Core 3 m recovered 140.00 - 143.00 : 100.00 % RQD 100.00 % Core 3 m recovered 143.00 - 146.00 : 100.00 % RQD 97.00 % Core 2.92 m recovered 146.00 - 149.00 : 100.00 % RQD 100.00 % Core 3 m recovered 149.00 - 152.00 : 100.00 % RQD 100.00 % Core 3 m recovered **MINOR INTERVALS:** **Minor Interval:** 77.5 - 82.5 ARG, Argillite Sulfidized interval. Alteration starts with fracture controlled sulfides. It progresses into a silicified/pyritized zone and then back out. into fracture and bedding controlled sulfides.							

Hole Number: **ESO-06-04**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 98.35 - 98.8 CQV, Quartz-carbonate vein White milky quartz with minor ankerite and pyrite cuts the core axis at 50° **Mineralization** 98.35 - 98.80 : ASP Arsenopyrite, Blb Blebs, 1% 98.35 - 98.80 : PY Pyrite, Blb Blebs, 3% **Minor Interval:** 98.8 - 102 ARG, Argillite Pervasive quartz veining zone. A few minor quartz/carbonate veins but there is much quartz along bedding. Bedding cvuts at 45° to core axis. **Mineralization** 98.80 - 102.00 : PY Pyrite, Diss Disseminated, 2% 98.80 - 102.00 : PY Pyrite, Blb Blebs, 2% 98.80 - 102.00 : ASP Arsenopyrite, Blb Blebs, 0.5% assc with veining **Minor Interval:** 107.5 - 108.5 ARG, Argillite Fine grained light green to off white zone. Graditional to argillic iron formation? **Minor Interval:** 109.5 - 120 ARG, Argillite This interval has been pervasively quartz flooded. There is some distinctive veining but more quartz flooding along bedding. Some quartz/sulfide banding at 110-111 m and again around 115. **Mineralization** 109.50 - 120.00 : ASP Arsenopyrite, Blb Blebs, 1% usually with veining 109.50 - 120.00 : ASP Arsenopyrite, Diss Disseminated, 0.25% 109.50 - 120.00 : PY Pyrite, Blb Blebs, 4% 109.50 - 120.00 : PY Pyrite, Diss Disseminated, 2% **Alteration** 109.50 - 120.00 :CA Carbonate, Pervasiv Pervasive, PEV Weak 109.50 - 120.00 :SI Silica, Pervasiv Pervasive, STG Strong **Minor Interval:** 120 - 123.5 ARG, Argillite typical black argillite **Minor Interval:** 123.5 - 127.05 ARBIF, Argillitic iron formation This interval has a graditional contact into and out of thinly bedded argillic iron form. There are light green to off white chemical precipitant beds mixed in with fine grained muddy sediments. Bedding is variable. There is only a single magnetite interval at 125.20. The entire interval has been weakly altered. Mineralization consists of weak to moderate quartz/carbonate veining with accompanying sulfides.								

Hole Number: **ESO-06-04**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 127.05 - 134 ARG, Argillite This interval has quartz/ carbonate veining and some patches of pervasive quartz/carbonate alteration. It also has weak bands of sulfide, primarily pyrite. **Mineralization** 127.05 - 134.00 : ASP Arsenopyrite, Blb Blebs, 0.25% 127.05 - 134.00 : PY Pyrite, Blb Blebs, 2% 127.05 - 134.00 : PY Pyrite, Diss Disseminated, 1% 127.05 - 134.00 : PY Pyrite, SS Stringers, 2% **Alteration** 127.05 - 134.00 :CA Carbonate, FC Fracture Controlled, MOD Moderate 127.05 - 134.00 :CA Carbonate, Pervasiv Pervasive, PEV Weak **Minor Interval:** 134 - 137.25 ARG, Argillite alteration fades and is gone by 137.25 **Minor Interval:** 137.25 - 143.5 ARG, Argillite fine grained black argillite grades into a fine grained arkosic sediment **Minor Interval:** 143.5 - 149.75 ARG, Argillite Lighter colored pale green to off white fine grained argillite. Chemical precipitant bads are common. The interval is relatively unaltered and has no sulfides.								

Hole Number: **ESO-06-04**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
149.75	177.80	**SLTST, Siltstone** Fine grained light greenish gray siltstone. Both the upper and lower contacts are gradational with argillite. Thin argillite, wackes, and sandstones are interbedded with this unit. Occasional quartz eyes are common. There are thin intervals of pebble conglomerate. The entire interval is unaltered to very weakly altered.. Occasional coarse clots of pyrite appear metamorphic. **RQD** 152.00 - 155.00 : 100.00 % RQD 100.00 % Core 3 m recovered 155.00 - 158.00 : 100.00 % RQD 100.00 % Core 3 m recovered 158.00 - 161.00 : 100.00 % RQD 100.00 % Core 3 m recovered 161.00 - 164.00 : 100.00 % RQD 95.00 % Core 2.84 m recovered 164.00 - 167.00 : 100.00 % RQD 100.00 % Core 167.00 - 170.00 : 100.00 % RQD 100.00 % Core 170.00 - 173.00 : 100.00 % RQD 100.00 % Core 173.00 - 176.00 : 100.00 % RQD 100.00 % Core 176.00 - 179.00 : 100.00 % RQD 100.00 % Core **MINOR INTERVALS:** **Minor Interval:** 159 - 162 PBCONG, Pebble conglomerate There is a scattering of small pebbles in this interval **Minor Interval:** 167.15 - 170 PBCONG, Pebble conglomerate coarser interval with scattered pebbles								

Hole Number: **ESO-06-04**

Units: METRIC

Detailed Lithology

From	To	Lithology
177.80	269.00	**ARG, Argillite** Dark gray to black fine grained argillite. The rock consists of fine grained amphibole. The unit is thinly bedded with bedding cutting the core axis at angles from 15* to 40*. The interval is primarily unaltered. Occasional large clots of pyrite appear metamorphic. **RQD** 179.00 - 182.00 : 100.00 % RQD 100.00 % Core 182.00 - 185.00 : 100.00 % RQD 100.00 % Core 185.00 - 188.00 : 100.00 % RQD 100.00 % Core 188.00 - 191.00 : 100.00 % RQD 100.00 % Core 191.00 - 194.00 : 100.00 % RQD 100.00 % Core 194.00 - 197.00 : 100.00 % RQD 100.00 % Core 197.00 - 200.00 : 100.00 % RQD 100.00 % Core 200.00 - 203.00 : 100.00 % RQD 100.00 % Core 203.00 - 206.00 : 100.00 % RQD 100.00 % Core 206.00 - 209.00 : 100.00 % RQD 100.00 % Core 209.00 - 212.00 : 100.00 % RQD 100.00 % Core 212.00 - 215.00 : 100.00 % RQD 100.00 % Core 215.00 - 218.00 : 100.00 % RQD 100.00 % Core 218.00 - 221.00 : 100.00 % RQD 100.00 % Core 221.00 - 224.00 : 100.00 % RQD 100.00 % Core 224.00 - 227.00 : 100.00 % RQD 100.00 % Core 227.00 - 230.00 : 100.00 % RQD 100.00 % Core 230.00 - 233.00 : 100.00 % RQD 100.00 % Core 233.00 - 236.00 : 100.00 % RQD 100.00 % Core 236.00 - 239.00 : 100.00 % RQD 100.00 % Core 239.00 - 242.00 : 100.00 % RQD 100.00 % Core 242.00 - 245.00 : 100.00 % RQD 100.00 % Core 245.00 - 248.00 : 100.00 % RQD 100.00 % Core 248.00 - 251.00 : 100.00 % RQD 100.00 % Core 251.00 - 254.00 : 100.00 % RQD 100.00 % Core 254.00 - 257.00 : 100.00 % RQD 100.00 % Core 257.00 - 260.00 : 100.00 % RQD 100.00 % Core 260.00 - 263.00 : 100.00 % RQD 100.00 % Core 263.00 - 266.00 : 100.00 % RQD 100.00 % Core 266.00 - 269.00 : 100.00 % RQD 100.00 % Core

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
73467	236.00	237.50	1.50				
73468	237.50	239.00	1.50				
73469	239.00	240.50	1.50				
73470	240.50	242.00	1.50				
73471	242.00	243.00	1.00				
73472	243.00	244.00	1.00				
73473	244.00	245.00	1.00				
73474	245.00	246.00	1.00				
73476	246.00	247.00	1.00				
73477	247.00	248.00	1.00				
73478	248.00	249.00	1.00				
73479	249.00	250.00	1.00				
73480	250.00	251.00	1.00				
73481	251.00	252.00	1.00				
73482	252.00	253.00	1.00				
73483	253.00	254.00	1.00				
73484	254.00	255.00	1.00				
73486	255.00	256.00	1.00				
73487	256.00	257.00	1.00				
73488	257.00	258.00	1.00				
73489	258.00	259.00	1.00				
73490	259.00	260.00	1.00				
73491	260.00	261.00	1.00				
73492	261.00	262.00	1.00				
73493	262.00	263.00	1.00				
73494	263.00	264.00	1.00				
73496	264.00	265.00	1.00				
73497	265.00	266.00	1.00				
73498	266.00	267.00	1.00				
73499	267.00	268.00	1.00				
73500	268.00	269.00	1.00				

Hole Number: **ESO-06-04**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 217.2 - 217.85 CQV, Quartz-carbonate vein A series of veinlets/ pervasive zone crosses the core axis at 10*. There are no accompanying sulfides. **Minor Interval:** 218.8 - 218.9 CQV, Quartz-carbonate vein A small quartz/carbonate vein cuts the core axis at near 90*. There are no accompanying sulfides. **Minor Interval:** 225.5 - 229 ARG, Argillite Black to dark gray argillite with porphoblasts of pyrite, probably metamorphic. **Minor Interval:** 234.94 - 235.1 CQV, Quartz-carbonate vein quartz/carbonate vein cuts the core axis at 10*. This vein has trace amounts of pyrite. **Mineralization** 234.94 - 235.10 : PY Pyrite, SS Stringers, 0.1% **Minor Interval:** 235.5 - 236.5 CQV, Quartz-carbonate vein Several small quartz/carbonate veins cut at very low to subparallel angles to the core axis. The veins are accompanied by less than 1% combined sulfides, both pyrite and arsenopyrite. **Minor Interval:** 243.5 - 260 ARG, Argillite Altered interval. The alteration extends into the argillite but is strongest in a slightly coarser sedimentary package of siltstones and sandstones. All units are in graditional contact. Weak pervasive quartz/carbonate flooding with minor veining is dominant with strongest alteration adjacent to veins. Sulfide content varies from barren to up to 5% total combined sulfide. Pyrite porphroblasts halo the stronger alteration. **Mineralization** 243.50 - 260.00 : ASP Arsenopyrite, Diss Disseminated, 0.5% 243.50 - 260.00 : SPH Sphalerite, Diss Disseminated, 0.1% 243.50 - 260.00 : PY Pyrite, Diss Disseminated, 2% 243.50 - 260.00 : PY Pyrite, Blb Blebs, 3% **Alteration** 243.50 - 260.00 :CA Carbonate, FC Fracture Controlled, STG Strong 243.50 - 260.00 :CA Carbonate, Pervasiv Pervasive, PEV Weak **Minor Interval:** 260 - 269 ARG, Argillite The argillite is increasingly silicified. There is minor quartz/carbonate veining with some sulfides. The unit continues to alter until it is indistinguishable from the gabbro that makes up the next interval.								

Hole Number: **ESO-06-04**

Units: METRIC

Detailed Lithology			Assay Data							
From	To		Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
269.00	304.72	**GAB, Gabbro** Dark green to greenish gray medium grained gabbro. The unit consists of slightly coarser feldspar and quartz in an amphibole matrix. The rock has a strongly developed fabric that shows at least to fabric directions. Other than the metamorphism the rock is relatively fresh. Quartz filled tensional gashes are common. There are occasional fine (1-2 mm) carbonate (dolomitic?) veins with minor sulfide. Total sulfide content is <1%. **RQD** 269.00 - 272.00 : 100.00 % RQD 100.00 % Core 272.00 - 275.00 : 100.00 % RQD 100.00 % Core 275.00 - 278.00 : 100.00 % RQD 100.00 % Core 278.00 - 281.00 : 100.00 % RQD 100.00 % Core 281.00 - 284.00 : 100.00 % RQD 100.00 % Core 284.00 - 287.00 : 100.00 % RQD 100.00 % Core 287.00 - 290.00 : 100.00 % RQD 100.00 % Core 290.00 - 293.00 : 100.00 % RQD 100.00 % Core 293.00 - 296.00 : 100.00 % RQD 100.00 % Core 296.00 - 299.00 : 100.00 % RQD 100.00 % Core 299.00 - 302.00 : 100.00 % RQD 100.00 % Core 302.00 - 305.00 : 100.00 % RQD 100.00 % Core							
304.72	305.70	**FZ, Fault zone** This interval is recemented gouge and breccia. Rock fragments are generally rounded and fine. Minor sulfide is late.with weakly disseminated blebs. **Mineralization** 304.72 - 305.70 : PY Pyrite, Blb Blebs, 2% 304.72 - 305.70 : ASP Arsenopyrite, Blb Blebs, 0.01% **RQD** 305.00 - 308.00 : 100.00 % RQD 100.00 % Core	73501	304.72	305.70	0.98				
305.70	326.00	**WACKE, Wacke** This interval is a gray fine grained massive wacke. Bedding is weak to nonexistant with only slight fabric developed. The rock consists of fine grained quartz and minor feldspar in a amphibole matrix. Alingment of the amphibole crystals defines the fabric. Minor pyrite is present in trace amounts. Occasional thin (<1mm) carbonate (dolomite?) veins cut at core at 30° to 40° angles. **RQD** 308.00 - 311.00 : 100.00 % RQD 100.00 % Core 311.00 - 314.00 : 100.00 % RQD 100.00 % Core 314.00 - 317.00 : 100.00 % RQD 100.00 % Core 317.00 - 320.00 : 100.00 % RQD 100.00 % Core 320.00 - 323.00 : 100.00 % RQD 100.00 % Core 323.00 - 326.00 : 100.00 % RQD 100.00 % Core	73502	305.70	307.00	1.30				

Hole Number: **ESO-06-04**

Units: METRIC

Detailed Lithology

From	To	Lithology	Assay Data							
			Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
326.00	330.00	**SISBX, Siliceous sedimentary breccia** Very fine grained white fragments in a black matrix. It appears to have been a fine black mudstone with thin white cherty interbeds. During deformation the white cherty beds deformed brittlely while the black mudstone deformed plastically. The unit doesn't appear altered but contains 3-5% pyrite both disseminated and in blebs and weak bands. **Mineralization** 326.00 - 330.00 : PY Pyrite, Diss Disseminated, 1% 326.00 - 330.00 : PY Pyrite, Blb Blebs, 2% 326.00 - 330.00 : PY Pyrite, Len Lenses, 3% 326.00 - 330.00 : ASP Arsenopyrite, Diss Disseminated, 0.01% **RQD** 326.00 - 329.00 : 100.00 % RQD 100.00 % Core 329.00 - 332.00 : 100.00 % RQD 100.00 % Core	73503	326.00	327.00	1.00				
			73504	327.00	328.00	1.00				
			73506	328.00	329.00	1.00				
			73507	329.00	330.00	1.00				
330.00	350.00	**WACKE, Wacke** This interval is a gray fine grained massive wacke with a thin interval of siliceous breccia (similar to the interval above). Bedding is weak to nonexistant with only slight fabric developed. The rock consists of fine grained quartz and minor feldspar in a amphibole matrix. Alingment of the amphibole crystals defines the fabric. Minor pyrite is present in trace amounts. Occasional thin (<1mm) carbonate (dolomite?) veins cut at core at 20* to 40* angles. **RQD** 332.00 - 335.00 : 100.00 % RQD 100.00 % Core 335.00 - 338.00 : 100.00 % RQD 100.00 % Core 338.00 - 341.00 : 100.00 % RQD 100.00 % Core 341.00 - 344.00 : 100.00 % RQD 100.00 % Core **MINOR INTERVALS:** **Minor Interval:** 338.65 - 340 SISBX, Siliceous sedimentary breccia This is similar to the interval above. This interval was not deformed as intensively. **Minor Interval:** 340.6 - 341 SISBX, Siliceous sedimentary breccia same as above	73508	330.00	331.00	1.00				
			73509	331.00	332.00	1.00				

Samples

Sample Number	From	To	Au gpt	Ag ppm	Zn ppm	Cu ppm
Sample Type **ASSAY**						
73427	75.50	77.00				
73428	77.00	78.00				
73429	78.00	79.00				
73430	79.00	80.00				
73431	80.00	81.00				

Hole Number: **ESO-06-04**

Units: METRIC

Samples

Sample Number	From	To	Au gpt	Ag ppm	Zn ppm	Cu ppm
Sample Type **ASSAY**						
73432	81.00	82.00				
73433	82.00	83.00				
73434	83.00	84.00				
73436	84.00	85.00				
73437	85.00	86.00				
73438	86.00	87.50				
73439	96.50	98.00				
73440	98.00	99.00				
73441	99.00	100.50				
73442	106.00	107.50				
73443	107.50	108.50				
73444	108.50	110.00				
73446	110.00	111.50				
73447	111.50	113.00				
73448	113.00	114.50				
73449	114.50	116.00				
73450	116.00	117.50				
73451	117.50	119.00				
73452	119.00	120.50				
73453	120.50	122.00				
73454	122.00	123.50				
73456	123.50	125.00				
73457	125.00	126.50				
73458	126.50	128.00				
73459	128.00	129.00				
73460	129.00	130.00				
73461	130.00	131.00				
73462	131.00	132.00				
73463	132.00	133.00				
73464	133.00	134.00				
73466	134.00	135.50				
73467	236.00	237.50				
73468	237.50	239.00				
73469	239.00	240.50				
73470	240.50	242.00				
73471	242.00	243.00				
73472	243.00	244.00				
73473	244.00	245.00				

Hole Number: **ESO-06-04**

Units: METRIC

Samples

Sample Number	From	To	Au gpt	Ag ppm	Zn ppm	Cu ppm
Sample Type **ASSAY**						
73474	245.00	246.00				
73476	246.00	247.00				
73477	247.00	248.00				
73478	248.00	249.00				
73479	249.00	250.00				
73480	250.00	251.00				
73481	251.00	252.00				
73482	252.00	253.00				
73483	253.00	254.00				
73484	254.00	255.00				
73486	255.00	256.00				
73487	256.00	257.00				
73488	257.00	258.00				
73489	258.00	259.00				
73490	259.00	260.00				
73491	260.00	261.00				
73492	261.00	262.00				
73493	262.00	263.00				
73494	263.00	264.00				
73496	264.00	265.00				
73497	265.00	266.00				
73498	266.00	267.00				
73499	267.00	268.00				
73500	268.00	269.00				
73501	304.72	305.70				
73502	305.70	307.00				
73503	326.00	327.00				
73504	327.00	328.00				
73506	328.00	329.00				
73507	329.00	330.00				
73508	330.00	331.00				
73509	331.00	332.00				

SUMMARY LOG

Hole Number: **ESO-06-05** Units: METRIC

Project Name:	Mikwam	Primary Coordinates	Grid: UTM:	Destination Coordinates	Grid: LOCAL:	Collar Dip:	-55.00
Project Number:	ESO06-MK	North:	5482750.00	North:		Collar Az:	285.00
Location:	Surface	East:	592418.00	East:		Length:	338.00
		Elev:	270.70	Elev:		Start Depth:	0.00
Date Started:	Mar 21, 2006	Collar Survey:	N	Plugged:	N	Contractor:	Heath and Sherwood Drilling Inc.	Final Depth:	338.00
Date Completed:	Mar 24, 2006	Multishot Survey:	N	Hole Size:	BQ	Core Storage:	Mine Site		
		Pulse EM Survey:	N	Casing:	Left in Hole				

Comments:

Sample Averages

Lithology

Depth		Rock Type		Assay Data							
From	To	Major	Minor	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
0	31.80	OB, Overburden									
31.80	65.00	ARG, Argillite		73510	50.00	50.85	0.85				
				73511	50.85	52.08	1.23				
				73512	52.08	52.55	0.47				
				73513	52.55	53.76	1.21				
				73514	53.76	54.65	0.89				
				73516	54.65	57.00	2.35				
65.00	123.80	SLTST, Siltstone		73517	106.10	106.51	0.41				
123.80	162.44	SLTST, Siltstone		73518	130.62	131.17	0.55				
				73519	140.94	141.80	0.86				
162.44	195.18	ARG, Argillite		73520	164.00	165.00	1.00				
				73521	165.00	166.00	1.00				
				73522	166.00	167.00	1.00				
				73523	167.00	168.00	1.00				
				73524	183.00	184.00	1.00				
				73526	184.00	185.00	1.00				
				73527	185.00	186.00	1.00				
				73528	192.00	193.00	1.00				
195.18	205.00	SLTST, Siltstone									
205.00	238.58	ARG, Argillite		73529	215.00	216.00	1.00				
				73530	216.00	217.00	1.00				
				73531	217.00	218.00	1.00				
				73532	218.00	219.00	1.00				
				73533	219.00	220.00	1.00				
				73534	220.00	221.00	1.00				
				73536	221.00	222.00	1.00				
				73537	222.00	223.00	1.00				
				73538	223.00	224.00	1.00				
				73539	224.00	225.00	1.00				
				73540	234.25	236.00	1.75				

SUMMARY LOG

Hole Number: **ESO-06-05**

Units: METRIC

Depth		Rock Type		Assay Data							
From	To	Major	Minor	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
238.58	283.58	SLTST, Siltstone		73541	258.37	259.44	1.07				
283.58	338.00	ARG, Argillite		73542	295.00	295.85	0.85				
				73543	295.85	297.00	1.15				
				73544	297.00	298.40	1.40				
				73546	298.40	299.61	1.21				
				73547	299.61	300.82	1.21				
				73548	300.82	302.00	1.18				
				73549	302.00	303.30	1.30				
				73550	303.30	304.14	0.84				
				73551	304.14	305.00	0.86				
				73552	312.00	312.50	0.50				
				73553	315.40	316.48	1.08				
				73554	323.00	324.31	1.31				

DETAILED LOG

Hole Number: **ESO-06-06**

Units: METRIC

Project Name:	Mikwam	Primary Coordinates	Grid: UTM:	Destination Coordinates	Grid: LOCAL:	Collar Dip:	-55.00
Project Number:	ESO06-MK	North:	5482697.00	North:		Collar Az:	270.00
Location:	Surface	East:	592413.00	East:		Length:	350.00
		Elev:	269.6	Elev:		Start Depth:	0.00
Date Started:	Mar 24, 2006	Collar Survey: N	Plugged: N	Contractor:	Heath and Sherwood Drilling Inc.	Final Depth:	350.00
Date Completed:	Mar 30, 2006	Multishot Survey: N	Hole Size: BQ	Core Storage:	Mine Site		
		Pulse EM Survey: N	Casing: Left in Hole				

Comments:

Sample Averages

Survey Data

Depth	Azimuth Decimal	Dip Decimal	Test Type	Flag	Comments	Depth	Azimuth Decimal	Dip Decimal	Test Type	Flag	Comments
35.00	287.80	-52.50	ES	OK		**101.00**	293.10	-50.60	ES	OK	
200.00	293.40	-40.60	ES	OK		**300.00**	303.10	-32.90	ES	OK	
350.00	304.50	-31.10	ES	OK							

Detailed Lithology

From	To	Lithology	Assay Data							
			Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
0	30.50	**OB, Overburden**								

Hole Number: **ESO-06-06**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
30.50	101.90	**SLTST, Siltstone** This interval is a light gray to greenish gray fine grained siltstone. The rock consists of fine quartz grains supported by a fine clay matrix. Some of the matrix has gone to sericite. There are thin soft fine grained interbeds. The unit is uniformly thinly bedded. Bedding cuts the interval at low angles from 15* to 40 *. The rock has been metamorphosed to lower greenschist facies. Weak quartz veining concordant with bedding is common. The unit appears nearly unaltered in reference to mineralization. Sulfide in minor amounts is in or immediately adjacent to quartz **RQD** 32.00 - 35.00 : 100.00 % RQD 33.00 % Core 1 m recovered 35.00 - 38.00 : 100.00 % RQD 70.00 % Core 2.1 m recovered 38.00 - 41.00 : 100.00 % RQD 97.00 % Core 2.9 m recovered 41.00 - 44.00 : 100.00 % RQD 93.00 % Core 2.8 m recovered 44.00 - 47.00 : 100.00 % RQD 77.00 % Core 2.3 m recovered 47.00 - 50.00 : 100.00 % RQD 90.00 % Core 2.7 m recovered 50.00 - 53.00 : 100.00 % RQD 92.00 % Core 2.75 m recovered 53.00 - 56.00 : 100.00 % RQD 100.00 % Core 3 m recovered 56.00 - 59.00 : 100.00 % RQD 97.00 % Core 2.9 m recovered 59.00 - 62.00 : 100.00 % RQD 98.00 % Core 2.95 m recovered 62.00 - 65.00 : 100.00 % RQD 73.00 % Core 2.2 m recovered 65.00 - 68.00 : 100.00 % RQD 95.00 % Core 2.85 m recovered 68.00 - 71.00 : 100.00 % RQD 95.00 % Core 2.85 m recovered 71.00 - 74.00 : 100.00 % RQD 97.00 % Core 2.9 m recovered 74.00 - 77.00 : 100.00 % RQD 100.00 % Core 3 m recovered 77.00 - 80.00 : 100.00 % RQD 100.00 % Core 3 m recovered 80.00 - 83.00 : 100.00 % RQD 100.00 % Core 3 m recovered	73556	100.00	101.58	1.58				
			73557	101.58	102.88	1.30				

Hole Number: **ESO-06-06**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		RQD 83.00 - 86.00 : 100.00 % RQD 100.00 % Core 3 m recovered 86.00 - 89.00 : 100.00 % RQD 100.00 % Core 3 m recovered 89.00 - 92.00 : 100.00 % RQD 100.00 % Core 3 m recovered 92.00 - 95.00 : 100.00 % RQD 100.00 % Core 3 m recovered 95.00 - 98.00 : 100.00 % RQD 100.00 % Core 3 m recovered 98.00 - 101.00 : 100.00 % RQD 100.00 % Core 3 m recovered 101.00 - 104.00 : 100.00 % RQD 87.00 % Core 2.6 m recovered **MINOR INTERVALS:** **Minor Interval:** 34.7 - 34.8 DIA, Diabase A thin dike cuts the core at about 40*. Siltstone adjacent to the dike is silicified. Hornfels? This is in a poor recovery section. Placement is problematic. **Minor Interval:** 44 - 44.15 SLTST, Siltstone Thin band of orange oxidized ankerite cuts the core at 35* No accompanying sulfides. **Minor Interval:** 45.45 - 46.15 SLTST, Siltstone soft blocky zone, core lost **Minor Interval:** 47.75 - 47.85 QV, Quartz vein Two10 mm quartz/pyrite bands cut the core ar 25-30*. Pyrite content is strong within the bands. **Minor Interval:** 50.18 - 50.25 QV, Quartz vein barren white quartz vein cuts at 50* to core axis **Minor Interval:** 50.4 - 51.7 SLTST, Siltstone This whispy bands of yellow to orange ankerite. Minor accompanying silicification with no sulfide. **Minor Interval:** 52.95 - 53.1 SLTST, Siltstone same as above **Minor Interval:** 53.2 - 53.35 SLTST, Siltstone same as above								

Hole Number: **ESO-06-06**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 59 - 62 SLTST, Siltstone Thin whispy bands of yellow to orange ankerite follow bedding cutting the core at 50* to 60*. Accompanying silicification is weak and spotty. Sulfides are neglegible. **Minor Interval:** 81 - 90 SLTST, Siltstone Bedding starts to flatten around 81 with a fold nose centered about 85. bedding steepens and is back to about 40*-45* by 91 **Minor Interval:** 90 - 101.9 SLTST, Siltstone The siltstone fines and the amount of thin argillite beds increases. Parting are commonly soft and talcy. Gradational change to finer sediments								
101.90	102.88	**CQV, Quartz-carbonate vein** A series of quartz/carbonate veins cut what appears to be the nose of a fold. Veins cut the core axis from about 45* to nearly parallel to the core axis. Minor sulfides including pyrite and trace amounts of arsenopyrite accompany the veins. **Mineralization** 101.90 - 102.88 : ASP Arsenopyrite, Diss Disseminated, 0.05% very fine blebs scattered 101.90 - 102.88 : PY Pyrite, Blb Blebs, 2% fine blebs widely scattered **Alteration** 101.90 - 102.88 :CA Carbonate, FC Fracture Controlled, MOD Moderate								

Hole Number: **ESO-06-06**

Units: METRIC

Detailed Lithology

From	To	Lithology
102.88	120.00	**SLTST, Siltstone** This interval is a light gray to greenish gray fine grained siltstone. The rock consists of fine quartz grains supported by a fine clay matrix. Some of the matrix has gone to sericite and/or chlorite. There are thin soft fine grained interbeds. The unit is uniformly thinly bedded. Bedding cuts the interval at low angles, commonly from 15* to 40 *. In places the folding flattens and fold noses cross the core axis. The rock has been metamorphosed to lower greenschist facies. Weak quartz veining concordant with bedding is common. Veining amounts increase in the noses. The unit appears weakly altered in reference to mineralization. Sulfide in minor amounts is in or immediately adjacent to quartz or quartz/carbonate veining. Minor mineralization is disseminated. **RQD** 104.00 - 107.00 : 100.00 % RQD 100.00 % Core 3 m recovered 107.00 - 110.00 : 100.00 % RQD 100.00 % Core 3 m recovered 110.00 - 113.00 : 100.00 % RQD 100.00 % Core 3 m recovered 113.00 - 116.00 : 100.00 % RQD 100.00 % Core 3 m recovered 116.00 - 119.00 : 100.00 % RQD 100.00 % Core 3 m recovered 119.00 - 122.00 : 100.00 % RQD 100.00 % Core 3 m recovered **MINOR INTERVALS:** **Minor Interval:** 102.88 - 107.4 SLTST, Siltstone Interval of pervasive potassic? alteration. Moderate sericite development with silicification and weak sulfidization. **Mineralization** 102.88 - 107.40 : ASP Arsenopyrite, Diss Disseminated, 0.02% 102.88 - 107.40 : PY Pyrite, Diss Disseminated, 1% 102.88 - 107.40 : PY Pyrite, Blb Blebs, 2% **Alteration** 102.88 - 107.40 :SR Sericite, Pervasiv Pervasive, MOD Moderate **Minor Interval:** 107.4 - 109.3 SLTST, Siltstone Crossing the nose of another fold. weak quartz/carbonate veining running nearly parallel to core axis. **Mineralization** 107.40 - 109.30 : ASP Arsenopyrite, Diss Disseminated, 0.02% 107.40 - 109.30 : PY Pyrite, Blb Blebs, 2% **Minor Interval:** 109.3 - 113 SLTST, Siltstone Scattered quartz/carbonate veins discordant with bedding. Minor sulfides

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
73558	102.88	104.00	1.12				
73559	104.00	105.00	1.00				
73560	105.00	106.00	1.00				
73561	106.00	107.40	1.40				
73562	107.40	108.00	0.60				
73563	108.00	109.00	1.00				
73564	109.00	110.00	1.00				
73566	110.00	111.50	1.50				
73567	111.50	113.00	1.50				

DETAILED LOG

Hole Number: **ESO-06-06**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 113 - 117.5 SLTST, Siltstone Scattered weak quartz/cabonate veining with weak pyrite								

Hole Number: **ESO-06-06**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
120.00	171.25	**ARG, Argillite** Dark gray to light gray fine grained argillite. The rock is composed primarily of fine grained quartz grains in a finer grained amphibole and feldspar matrix. There are common siltstone interbeds. The unit is thinly bedded and cuts at 20 to 45degrees from the core axis. The rock is nonmagnetic.Alteration, if present, is weak. There is minor quartz/carbonate veining concordent to bedding. **RQD** 122.00 - 125.00 : 100.00 % RQD 100.00 % Core 3 m recovered 125.00 - 128.00 : 100.00 % RQD 100.00 % Core 3 m recovered 128.00 - 131.00 : 100.00 % RQD 100.00 % Core 3 m recovered 131.00 - 134.00 : 100.00 % RQD 100.00 % Core 3 m recovered 134.00 - 137.00 : 100.00 % RQD 100.00 % Core 3 m recovered 137.00 - 140.00 : 100.00 % RQD 100.00 % Core 3 m recovered 140.00 - 143.00 : 100.00 % RQD 100.00 % Core 3 m recovered 143.00 - 146.00 : 100.00 % RQD 100.00 % Core 3 m recovered 146.00 - 149.00 : 100.00 % RQD 100.00 % Core 3 m recovered 149.00 - 152.00 : 100.00 % RQD 100.00 % Core 3 m recovered 152.00 - 155.00 : 100.00 % RQD 100.00 % Core 3 m recovered 155.00 - 158.00 : 100.00 % RQD 100.00 % Core 3 m recovered 158.00 - 161.00 : 100.00 % RQD 100.00 % Core 3 m recovered 161.00 - 164.00 : 100.00 % RQD 100.00 % Core 3 m recovered 164.00 - 167.00 : 100.00 % RQD 100.00 % Core 3 m recovered 167.00 - 170.00 : 100.00 % RQD 100.00 % Core 3 m recovered 170.00 - 173.00 : 100.00 % RQD 100.00 % Core 3 m recovered								

Hole Number: **ESO-06-06**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 120 - 157.5 SLTST, Siltstone Interbed of siltstone. Minor interbeds of argillite. Siltstone is lighter colored and more massive. **Minor Interval:** 157.5 - 164.71 ARG, Argillite interval has increased quartz/carbonate veining concordant with bedding.Only very minor pyrite								

Hole Number: **ESO-06-06**

Units: METRIC

Detailed Lithology

From	To	Lithology
171.25	214.00	**SLTST, Siltstone** This interval is a light gray to greenish gray fine grained siltstone. The rock consists of fine quartz grains supported by a fine clay matrix. Some of the matrix has gone to sericite or chlorite. There are thin soft fine grained interbeds of argillite. The unit is irregularly bedded, in places being massive. Bedding cuts the interval at low angles from 15* to 40 *. The rock has been metamorphosed to lower greenschist facies. Weak quartz/carbonate veining concordant with bedding is common. The unit is wesakly to moderately potassically altered with development of sericite and silicification. Sulfide in minor amounts is in or immediately adjacent to fold noses. Both pyrite and arsenopyrite are disseminated. **RQD** 173.00 - 176.00 : 100.00 % RQD 100.00 % Core 3 m recovered 176.00 - 179.00 : 100.00 % RQD 100.00 % Core 3 m recovered 179.00 - 182.00 : 100.00 % RQD 100.00 % Core 3 m recovered 182.00 - 185.00 : 100.00 % RQD 100.00 % Core 3 m recovered 185.00 - 188.00 : 100.00 % RQD 100.00 % Core 3 m recovered 188.00 - 191.00 : 100.00 % RQD 100.00 % Core 3 m recovered 191.00 - 194.00 : 100.00 % RQD 100.00 % Core 3 m recovered 194.00 - 197.00 : 100.00 % RQD 100.00 % Core 3 m recovered 197.00 - 200.00 : 100.00 % RQD 100.00 % Core 3 m recovered 200.00 - 203.00 : 100.00 % RQD 100.00 % Core 3 m recovered 203.00 - 206.00 : 100.00 % RQD 100.00 % Core 3 m recovered 206.00 - 209.00 : 100.00 % RQD 100.00 % Core 3 m recovered 209.00 - 212.00 : 100.00 % RQD 100.00 % Core 3 m recovered 212.00 - 215.00 : 100.00 % RQD 100.00 % Core 3 m recovered

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
73568	175.00	176.50	1.50				
73569	176.50	178.00	1.50				
73570	178.00	179.50	1.50				
73571	179.50	181.00	1.50				
73572	181.00	182.50	1.50				
73573	182.50	184.00	1.50				
73574	184.00	185.50	1.50				
73576	185.50	187.00	1.50				
73577	187.00	188.00	1.00				
73578	188.00	189.36	1.36				
73579	189.36	189.84	0.48				
73580	189.84	190.50	0.66				
73581	190.50	191.50	1.00				
73582	191.50	192.50	1.00				
73583	192.50	194.00	1.50				
73584	194.00	195.50	1.50				
73586	195.50	197.00	1.50				
73587	197.00	198.50	1.50				
73588	198.50	200.00	1.50				
73589	200.00	201.50	1.50				
73590	201.50	203.00	1.50				
73591	203.00	204.50	1.50				
73592	204.50	206.00	1.50				
73593	206.00	207.50	1.50				
73594	207.50	209.00	1.50				

Hole Number: **ESO-06-06**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 171.25 - 189.3 SLTST, Siltstone This interval has a few finer beds but also has some slightly coarser interbeds. These coarser units have scattered fine quartz eyes. The intervak is pervasively potassically altered with moderate to strong sericite development and moderate to strong silicification. Quartz or quartz/carbonate veins are rare. Sulfide is minimal **Mineralization** 171.25 - 189.30 : ASP Arsenopyrite, Diss Disseminated, 0.01% very fine grained disseminated aspy, isolated crystals wide spread 171.25 - 189.30 : PY Pyrite, Diss Disseminated, 0.5% 171.25 - 189.30 : PY Pyrite, Blb Blebs, 1% **Alteration** 171.25 - 189.30 :SR Sericite, Pervasiv Pervasive, MOD Moderate **Minor Interval:** 189.3 - 189.84 MD, Mafic Dyke Black fine grained dike. This dike has been metamorphosed and origional textures/mineralization is gone. There appear to be 2-3 mm long blades that may be after hornblende. Contacts are sharp and cut the core axis at 50*. **Minor Interval:** 189.93 - 190.5 BX, Breccia Breccia zone adjacent to dike. A dsrk gray matrix supports angular clasts. Clasts are fairly small but show limited rounding. Matric appears to be a silicified rock gouge. Minor sulfides are in the matrix. **Minor Interval:** 190.5 - 214 SLTST, Siltstone The entire interval has a strong silica overprint. Some old veining is evident but is also overprinted. There is only minor sericite development. Minimal sulfides but pyrite and arsenopyrite occur. **Mineralization** 190.50 - 214.00 : ASP Arsenopyrite, Diss Disseminated, 0.01% 190.50 - 214.00 : PY Pyrite, Diss Disseminated, 0.5% 190.50 - 214.00 : PY Pyrite, Blb Blebs, 1% **Alteration** 190.50 - 214.00 :SR Sericite, Pervasiv Pervasive, PEV Weak 190.50 - 214.00 :SI Silica, Pervasiv Pervasive, STG Strong								

Hole Number: **ESO-06-06**

Units: METRIC

Detailed Lithology

From	To	Lithology
214.00	253.00	**PBCONG, Pebble conglomerate** This interval has thin conglomerate layers mixed in with finer sedimentary units. There are a few thin sandstone and siltstone units mixed with muddy units. The porosity of the unit appears high and the entire unit is weakly to moderately altered. Sericite development is weak but quartz/carbonate is common both pervasively and along veining. Sulfidization is weak with 1-2% pyrite mainly as small blebs around veins and following some more receptive beds. Rare tan bands concordant with bedding may carry strong sulfide +- arsenopyrite. Maximum width does not exceed 1 cm. These may represent early veining. Areas of interest are detailed in the minors. **Mineralization** 214.00 - 253.00 : PY Pyrite, Blb Blebs, 1% 214.00 - 253.00 : PY Pyrite, Diss Disseminated, 0.5% 214.00 - 253.00 : ASP Arsenopyrite, Diss Disseminated, 0.01% **Alteration** 214.00 - 253.00 :SR Sericite, Pervasiv Pervasive, PEV Weak 214.00 - 253.00 :CA Carbonate, Pervasiv Pervasive, MOD Moderate 214.00 - 253.00 :F Fuchsite, Pervasiv Pervasive, PEV Weak see in 2 short intervals **RQD** 215.00 - 218.00 : 100.00 % RQD 100.00 % Core 3 m recovered 218.00 - 221.00 : 100.00 % RQD 100.00 % Core 3 m recovered 221.00 - 224.00 : 100.00 % RQD 100.00 % Core 3 m recovered 224.00 - 227.00 : 100.00 % RQD 100.00 % Core 3 m recovered 227.00 - 230.00 : 100.00 % RQD 100.00 % Core 3 m recovered 230.00 - 233.00 : 100.00 % RQD 100.00 % Core 3 m recovered 233.00 - 236.00 : 100.00 % RQD 100.00 % Core 3 m recovered 236.00 - 239.00 : 100.00 % RQD 100.00 % Core 3 m recovered 239.00 - 242.00 : 100.00 % RQD 100.00 % Core 3 m recovered 242.00 - 245.00 : 100.00 % RQD 100.00 % Core 3 m recovered 245.00 - 248.00 : 100.00 % RQD 100.00 % Core 3 m recovered 248.00 - 251.00 : 100.00 % RQD 100.00 % Core 3 m recovered

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
73596	227.87	228.91	1.04				
73597	228.91	229.31	0.40				
73598	229.31	230.00	0.69				
73599	230.00	231.00	1.00				
73600	231.00	232.50	1.50				
73601	239.00	240.00	1.00				

Hole Number: **ESO-06-06**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		RQD 251.00 - 254.00 : 100.00 % RQD 100.00 % Core 3 m recovered **MINOR INTERVALS:** **Minor Interval:** 228.91 - 229.16 SNSTN, Sandstone This appears to be a this sandstone unit composed almost entirely of well rounded quartz grains. The porosity has allowed strong alteration and quartz/carbonate has flooded the unit. Fuchsite was identified. Sulfide content is low but above background. **Mineralization** 228.91 - 229.16 : ASP Arsenopyrite, Diss Disseminated, 0.05% 228.91 - 229.16 : PY Pyrite, Blb Blebs, 2% 228.91 - 229.16 : PY Pyrite, Diss Disseminated, 1% **Alteration** 228.91 - 229.16 :CA Carbonate, Pervasiv Pervasive, STG Strong 228.91 - 229.16 :F Fuchsite, Pervasiv Pervasive, PEV Weak								
253.00	272.22	**SNSTN, Sandstone** This interval has a fine grained very uniform sandstone. It is primarily massive but a few very fine sandy units help define bedding. The contact with the next unit is very sharp, cutting the core axis at 30*. The unit is weakly pervasively carbonate altered. Sulfides are minimal. It has only weak quartz/carbonate veining. **RQD** 254.00 - 257.00 : 100.00 % RQD 100.00 % Core 3 m recovered 257.00 - 260.00 : 100.00 % RQD 100.00 % Core 3 m recovered 260.00 - 263.00 : 100.00 % RQD 100.00 % Core 3 m recovered 263.00 - 266.00 : 100.00 % RQD 100.00 % Core 3 m recovered 266.00 - 269.00 : 100.00 % RQD 100.00 % Core 3 m recovered 269.00 - 272.00 : 100.00 % RQD 100.00 % Core 3 m recovered 272.00 - 275.00 : 100.00 % RQD 100.00 % Core 3 m recovered **MINOR INTERVALS:** **Minor Interval:** 257.7 - 257.72 SNSTN, Sandstone fuchsite band at 257.70 to 257.72	73602	271.22	272.22	1.00				

Hole Number: **ESO-06-06**

Units: METRIC

Detailed Lithology

From	To	Lithology
272.22	308.31	**ARG, Argillite** Dark gray to black fine grained argillite. The rock is composed primarily of fine grained quartz grains in a finer grained amphibole and feldspar matrix. Parting are graphitic near the top of the unit. The unit is thinly bedded and cuts at 30 to 40 degrees from the core axis. The bedding shows commom soft sediment defirmation. The rock is nonmagnetic. Quartz carbonate veining with minor sulfides is present near the contact. Weak quartz/carbonate veining concordant to bedding is common throughout. **RQD** 275.00 - 278.00 : 100.00 % RQD 100.00 % Core 3 m recovered 278.00 - 281.00 : 100.00 % RQD 100.00 % Core 3 m recovered 281.00 - 284.00 : 100.00 % RQD 100.00 % Core 3 m recovered 284.00 - 287.00 : 100.00 % RQD 100.00 % Core 3 m recovered 287.00 - 290.00 : 100.00 % RQD 100.00 % Core 3 m recovered 290.00 - 293.00 : 100.00 % RQD 100.00 % Core 3 m recovered 293.00 - 296.00 : 100.00 % RQD 100.00 % Core 2.6 m recovered 296.00 - 299.00 : 100.00 % RQD 100.00 % Core 3 m recovered 299.00 - 302.00 : 100.00 % RQD 100.00 % Core 3 m recovered 302.00 - 305.00 : 100.00 % RQD 100.00 % Core 3 m recovered 305.00 - 308.00 : 100.00 % RQD 100.00 % Core 3 m recovered 308.00 - 311.00 : 100.00 % RQD 100.00 % Core 3 m recovered **MINOR INTERVALS:** **Minor Interval:** 272.22 - 273 ARG, Argillite This interval has common quartz /carbonate veining. Sulfides are minimal **Mineralization** 272.22 - 273.00 : ASP Arsenopyrite, Diss Disseminated, 0.02% 272.22 - 273.00 : PY Pyrite, Blb Blebs, 1.5% 272.22 - 273.00 : PY Pyrite, Diss Disseminated, 0%

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
73603	272.22	273.22	1.00				
73604	278.00	279.00	1.00				
73606	279.00	280.00	1.00				
73607	307.31	308.31	1.00				

Hole Number: **ESO-06-06**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 278.38 - 279 ARG, Argillite Bands of carbonate alteration pass through this interval. Sulfides are minimal **Mineralization** 278.38 - 279.00 : ASP Arsenopyrite, Diss Disseminated, 0.01% 278.38 - 279.00 : PY Pyrite, Blb Blebs, 2% **Minor Interval:** 279.45 - 279.74 ARG, Argillite There is a quartz/carbonate vein that is apparently devoid of sulfides at 279.45 to 279.55. The is a set of sulfide stringers from 279.62 to 279.74. Pyrite in the interval approaches 5%. **Mineralization** 279.45 - 279.74 : PY Pyrite, SS Stringers, 4% 279.45 - 279.74 : PY Pyrite, Diss Disseminated, 1% **Minor Interval:** 279.74 - 308.31 ARG, Argillite uniform sequence of thinly bedded black argillite								

Hole Number: **ESO-06-06**

Units: METRIC

Detailed Lithology

From	To	Lithology
308.31	350.00	**ARG, Argillite** In sharp contact with the black argillite is a white to light gray sequence. This unit appears more massive but bedding may be masked by potassic alteration. The intervals has been silicified and has moderate to strong development of sericite along partings and within the rock. The rock has reacted brittlely and has occasional pyrite stringers. Quartz and quartz/carbonate veining are overprinted by the alteration. Overall sulfide content is low with most sulfides being widely disseminated. Sulfide amounts of 1-2% pyrite, a trace of arsenopyrite, and very fine grains of possible sphalerite were identified. Samples were taken near the contact. This interval was NOT sampled due to the widespread limited nature of the sulfides. **Mineralization** 308.31 - 350.00 : ASP Arsenopyrite, Diss Disseminated, 0.05% 308.31 - 350.00 : PY Pyrite, Diss Disseminated, 0.5% 308.31 - 350.00 : PY Pyrite, SS Stringers, 1% 308.31 - 350.00 : SPH Sphalerite, Diss Disseminated, 0.01% possible very fine red brown crystals **Alteration** 308.31 - 350.00 :SR Sericite, Pervasiv Pervasive, STG Strong **RQD** 311.00 - 314.00 : 100.00 % RQD 100.00 % Core 3 m recovered 314.00 - 317.00 : 100.00 % RQD 100.00 % Core 3 m recovered 317.00 - 320.00 : 100.00 % RQD 100.00 % Core 3 m recovered 320.00 - 323.00 : 100.00 % RQD 100.00 % Core 3 m recovered 323.00 - 326.00 : 100.00 % RQD 100.00 % Core 3 m recovered 326.00 - 329.00 : 100.00 % RQD 100.00 % Core 3 m recovered 329.00 - 332.00 : 100.00 % RQD 100.00 % Core 3 m recovered 332.00 - 335.00 : 100.00 % RQD 100.00 % Core 3 m recovered 335.00 - 338.00 : 100.00 % RQD 100.00 % Core 3 m recovered 338.00 - 341.00 : 100.00 % RQD 100.00 % Core 3 m recovered 341.00 - 344.00 : 100.00 % RQD 100.00 % Core 3 m recovered

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
73608	308.31	309.31	1.00				
73609	309.31	310.31	1.00				
73610	310.31	311.31	1.00				
73611	311.31	312.31	1.00				

Hole Number: **ESO-06-06**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		RQD 344.00 - 347.00 : 100.00 % RQD 100.00 % Core 3 m recovered 347.00 - 350.00 : 100.00 % RQD 100.00 % Core 3 m recovered **MINOR INTERVALS:** **Minor Interval:** 308.31 - 320 ARG, Argillite Zone of strongest potassic alteration **Minor Interval:** 320 - 350 ARG, Argillite Intensity of alteration decreases. There are thin interbeds of black argillite. Alteration almost gone by the end of the hole.								

Samples

Sample Number	From	To	Au gpt	Ag ppm	Zn ppm	Cu ppm
Sample Type **ASSAY**						
73556	100.00	101.58				
73557	101.58	102.88				
73558	102.88	104.00				
73559	104.00	105.00				
73560	105.00	106.00				
73561	106.00	107.40				
73562	107.40	108.00				
73563	108.00	109.00				
73564	109.00	110.00				
73566	110.00	111.50				
73567	111.50	113.00				
73568	175.00	176.50				
73569	176.50	178.00				
73570	178.00	179.50				
73571	179.50	181.00				
73572	181.00	182.50				
73573	182.50	184.00				
73574	184.00	185.50				
73576	185.50	187.00				
73577	187.00	188.00				
73578	188.00	189.36				
73579	189.36	189.84				
73580	189.84	190.50				
73581	190.50	191.50				

Hole Number: **ESO-06-06**

Units: METRIC

Samples

Sample Number	From	To	Au gpt	Ag ppm	Zn ppm	Cu ppm
Sample Type **ASSAY**						
73582	191.50	192.50				
73583	192.50	194.00				
73584	194.00	195.50				
73586	195.50	197.00				
73587	197.00	198.50				
73588	198.50	200.00				
73589	200.00	201.50				
73590	201.50	203.00				
73591	203.00	204.50				
73592	204.50	206.00				
73593	206.00	207.50				
73594	207.50	209.00				
73596	227.87	228.91				
73597	228.91	229.31				
73598	229.31	230.00				
73599	230.00	231.00				
73600	231.00	232.50				
73601	239.00	240.00				
73602	271.22	272.22				
73603	272.22	273.22				
73604	278.00	279.00				
73606	279.00	280.00				
73607	307.31	308.31				
73608	308.31	309.31				
73609	309.31	310.31				
73610	310.31	311.31				
73611	311.31	312.31				

Aug 18, 2006

DETAILED LOG

Units: METRIC

Hole Number: **ESO-06-07**

Project Name:	Mikwam	Primary Coordinates	Grid: UTM:	Destination Coordinates	Grid: LOCAL:	Collar Dip:	-45.00
Project Number:	ESO06-MK	North:	5482865.00	North:		Collar Az:	90.00
Location:	Surface	East:	592214.00	East:		Length:	375.00
		Elev:	267.10	Elev:		Start Depth:	0.00
Date Started:	Mar 30, 2006	Collar Survey:	N	Plugged:	N	Contractor:	Heath and Sherwood Drilling Inc.	Final Depth:	375.00
Date Completed:	Apr 03, 2006	Multishot Survey:	N	Hole Size:	BQ	Core Storage:	Mine Site		
		Pulse EM Survey:	N	Casing:	Left in Hole				

Comments:

Sample Averages

Survey Data

Depth	Azimuth Decimal	Dip Decimal	Test Type	Flag	Comments	Depth	Azimuth Decimal	Dip Decimal	Test Type	Flag	Comments
53.00	93.40	-45.60	ES	OK		**102.00**	98.20	-45.10	ES	OK	
201.00	106.40	-38.40	ES	OK		**300.00**	112.40	-32.40	ES	OK	
375.00	116.80	-28.90	ES	OK							

Detailed Lithology

From	To	Lithology
0	47.00	**OB, Overburden** overburden not retained **RQD** 45.00 - 48.00 : 100.00 % RQD 50.00 % Core 1.5 m recovered

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm

Hole Number: **ESO-06-07**

Units: METRIC

Detailed Lithology

From	To	Lithology
47.00	55.40	**PBCONG, Pebble conglomerate** Greenish gray medium to coarse grained pebble conglomerate. A wide variety of pebbles have been stretched parellel to bedding. Primaryily quartz and chert pebbles have survived but possible mafic and sedimentary clasts were identified. The matrix is fine sand to silt. The unit is fairly massive but some bedding can be seen. Bedding cuts the core axis at 10-15 degrees. The unit has a moderate amount of quartz/carbonate veining. The unit has been pervasively carbonitized. Ankerite and fuchsite were identified. Sulfide content is varible with most sulfides concentrated near veining and near the lower contact. FeOx banding near 54 is probably a surface water effect. **Mineralization** 47.00 - 55.40 : ASP Arsenopyrite, Diss Disseminated, 0.5% 47.00 - 55.40 : ASP Arsenopyrite, Blb Blebs, 1% 47.00 - 55.40 : PY Pyrite, Blb Blebs, 2% 47.00 - 55.40 : PY Pyrite, Diss Disseminated, 1% **Alteration** 47.00 - 55.40 :CA Carbonate, Pervasiv Pervasive, STG Strong 47.00 - 55.40 :F Fuchsite, Pervasiv Pervasive, PEV Weak **RQD** 48.00 - 51.00 : 100.00 % RQD 93.00 % Core 2.8 m recovered 51.00 - 54.00 : 100.00 % RQD 97.00 % Core 2.9 m recovered 54.00 - 57.00 : 100.00 % RQD 93.00 % Core 2.8 m recovered
55.40	59.00	**CQV, Quartz-carbonate vein** Fine grained white milky quartz with common colliform chlorite. Whispy ankerite and carbonate are common. Sulfide content is strong.. **Mineralization** 55.40 - 59.00 : ASP Arsenopyrite, Blb Blebs, 1% 55.40 - 59.00 : ASP Arsenopyrite, Diss Disseminated, 0.5% 55.40 - 59.00 : PY Pyrite, Blb Blebs, 3% 55.40 - 59.00 : PY Pyrite, Diss Disseminated, 2% 55.40 - 59.00 : PY Pyrite, SS Stringers, 2% 55.40 - 59.00 : SPH Sphalerite, Diss Disseminated, 0.02% red orange crystals disseminated **RQD** 57.00 - 60.00 : 100.00 % RQD 93.00 % Core 2.8 m recovered

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
73612	49.50	51.00	1.50				
73613	51.00	52.50	1.50				
73614	52.50	54.00	1.50				
73616	54.00	55.40	1.40				
73617	55.40	56.00	0.60				
73618	56.00	57.00	1.00				
73619	57.00	58.00	1.00				
73620	58.00	59.00	1.00				

Hole Number: **ESO-06-07**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
59.00	72.60	**SNSTN, Sandstone** Greenish gray fine grained sandstone or coarse siltstone. Very fine quartz grains are supported in a clay matrix. Bedding flattens and there may be a fold nose about 66 m. The interval has been pervasively carbonate altered. Silicification, ankerite, and sulfides are common. Trace amounts of fuchsite and sphalerite were identified. **Mineralization** 59.00 - 72.60 : ASP Arsenopyrite, Blb Blebs, 1% 59.00 - 72.60 : ASP Arsenopyrite, Diss Disseminated, 0.5% 59.00 - 72.60 : PY Pyrite, Blb Blebs, 2% 59.00 - 72.60 : PY Pyrite, Pat Patches, 2% 59.00 - 72.60 : PY Pyrite, Diss Disseminated, 1% 59.00 - 72.60 : PY Pyrite, SS Stringers, 2% 59.00 - 72.60 : SPH Sphalerite, Diss Disseminated, 0.05% **Alteration** 59.00 - 72.60 :CA Carbonate, Pervasiv Pervasive, STG Strong **RQD** 60.00 - 63.00 : 100.00 % RQD 95.00 % Core 2.85 m recovered 63.00 - 66.00 : 100.00 % RQD 95.00 % Core 2.85 m recovered 66.00 - 69.00 : 100.00 % RQD 100.00 % Core 3 m recovered 69.00 - 72.00 : 100.00 % RQD 100.00 % Core 3 m recovered 72.00 - 75.00 : 100.00 % RQD 100.00 % Core 3 m recovered	73621	59.00	60.00	1.00				
			73622	60.00	61.00	1.00				
			73623	61.00	62.00	1.00				
			73624	62.00	63.00	1.00				
			73626	63.00	64.00	1.00				
			73627	64.00	65.00	1.00				
			73628	65.00	66.00	1.00				
			73629	66.00	67.00	1.00				
			73630	67.00	68.00	1.00				
			73631	68.00	69.00	1.00				
			73632	69.00	70.00	1.00				
			73633	70.00	71.00	1.00				
			73634	71.00	72.00	1.00				
			73636	72.00	72.60	0.60				
72.60	79.90	**CQV, Quartz-carbonate vein** Fine grained white milky quartz with common colliform chlorite. Whispy ankerite and carbonate are common. Sulfide content is strong.. **Mineralization** 72.60 - 79.90 : ASP Arsenopyrite, Blb Blebs, 1% 72.60 - 79.90 : ASP Arsenopyrite, Diss Disseminated, 0.5% 72.60 - 79.90 : PY Pyrite, Blb Blebs, 2% 72.60 - 79.90 : PY Pyrite, Diss Disseminated, 1% 72.60 - 79.90 : PY Pyrite, Pat Patches, 3% 72.60 - 79.90 **RQD** 75.00 - 78.00 : 100.00 % RQD 97.00 % Core 2.9 m recovered 78.00 - 81.00 : 100.00 % RQD 100.00 % Core 3 m recovered	73637	72.60	73.60	1.00				
			73638	73.60	74.60	1.00				
			73639	74.60	75.60	1.00				
			73640	75.60	76.60	1.00				
			73641	76.60	77.60	1.00				
			73642	77.60	78.60	1.00				
			73643	78.60	79.90	1.30				

Hole Number: **ESO-06-07**

Units: METRIC

Detailed Lithology

From	To	Lithology
79.90	134.10	**FVOL, Felsic volcanic** Fine grained uniform sized quartz grains in a very fine matrix The interval is massive but has some fabric developed that cuts the core axis at 10-15*. The interval is nonmagnetic. The interval has strong sericite development both along fabric (bedding?) and on partings. Sericite development with silicification suggests potassic alteration. The alteration fades away from the quartz/carbonate veining in the interval above. Quartz/carbonate veining with sulfides cut the interval in several places as addressed in the details. **Mineralization** 79.90 - 134.10 : ASP Arsenopyrite, Diss Disseminated, 0.25% 79.90 - 134.10 : PY Pyrite, Diss Disseminated, 0.5% 79.90 - 134.10 : PY Pyrite, Blb Blebs, 1% 79.90 - 134.10 : PY Pyrite, SS Stringers, 1% **Alteration** 79.90 - 134.10 :CA Carbonate, Pervasiv Pervasive, STG Strong 79.90 - 134.10 :SR Sericite, Pervasiv Pervasive, STG Strong **RQD** 81.00 - 84.00 : 100.00 % RQD 93.00 % Core 2.8 m recovered 84.00 - 87.00 : 100.00 % RQD 100.00 % Core 3 m recovered 87.00 - 90.00 : 100.00 % RQD 100.00 % Core 3 m recovered 90.00 - 93.00 : 100.00 % RQD 100.00 % Core 3 m recovered 93.00 - 96.00 : 100.00 % RQD 100.00 % Core 3 m recovered 96.00 - 99.00 : 100.00 % RQD 100.00 % Core 3 m recovered 99.00 - 102.00 : 100.00 % RQD 100.00 % Core 3 m recovered 102.00 - 105.00 : 100.00 % RQD 100.00 % Core 3 m recovered 105.00 - 108.00 : 100.00 % RQD 100.00 % Core 3 m recovered 108.00 - 111.00 : 100.00 % RQD 100.00 % Core 3 m recovered 111.00 - 114.00 : 100.00 % RQD 100.00 % Core 3 m recovered 114.00 - 117.00 : 100.00 % RQD 100.00 % Core 3 m recovered 117.00 - 120.00 : 100.00 % RQD 100.00 % Core 3 m recovered

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
73644	79.90	81.00	1.10				
73646	81.00	82.00	1.00				
73647	82.00	83.00	1.00				
73648	83.00	84.00	1.00				
73649	84.00	85.50	1.50				
73650	85.50	87.00	1.50				
73651	87.00	88.50	1.50				
73652	88.50	90.00	1.50				
73653	111.00	112.00	1.00				
73654	112.00	113.00	1.00				
73656	113.00	114.00	1.00				
73657	128.00	129.53	1.53				
73658	129.53	130.53	1.00				
73659	130.53	131.45	0.92				
73660	131.45	133.00	1.55				

Hole Number: **ESO-06-07**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		RQD 120.00 - 123.00 : 100.00 % RQD 100.00 % Core 3 m recovered 123.00 - 126.00 : 100.00 % RQD 100.00 % Core 3 m recovered 126.00 - 129.00 : 100.00 % RQD 100.00 % Core 3 m recovered 129.00 - 132.00 : 100.00 % RQD 100.00 % Core 3 m recovered 132.00 - 135.00 : 100.00 % RQD 100.00 % Core 3 m recovered **MINOR INTERVALS:** **Minor Interval:** 111.5 - 111.95 CQV, Quartz-carbonate vein White fine grained quartz/carbonate vein set cuts the core axis at 40*. alteration accompanying the veins includes minor sulfides. **Minor Interval:** 112.17 - 112.3 CQV, Quartz-carbonate vein White fine grained quartz/carbonate vein set cuts the core axis at 40*. alteration accompanying the veins includes minor sulfides. **Minor Interval:** 113 - 113.15 CQV, Quartz-carbonate vein White fine grained quartz/carbonate vein set cuts the core axis at 40*. alteration accompanying the veins includes minor sulfides. **Minor Interval:** 113.71 - 113.96 CQV, Quartz-carbonate vein White fine grained quartz/carbonate vein set cuts the core axis at 40*. alteration accompanying the veins includes minor sulfides. **Minor Interval:** 129.53 - 131.45 CQV, Quartz-carbonate vein White fine grained quartz/carbonate vein set cuts the core axis at 40*. alteration accompanying the veins includes minor sulfides.							

Hole Number: **ESO-06-07**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
134.10	154.70	**ARG, Argillite** Dark gray to black fine grained argillite. The rock is composed primarily of fine grained quartz grains in a finer grained amphibole and feldspar matrix. The unit is thinly bedded and cuts at 20 to 45degrees from the core axis. The bedding shows commom soft sediment defirmation. The rock is nonmagnetic. The interval is relatively unaltered. **RQD** 135.00 - 138.00 : 100.00 % RQD 100.00 % Core 3 m recovered 138.00 - 141.00 : 100.00 % RQD 100.00 % Core 3 m recovered 141.00 - 144.00 : 100.00 % RQD 100.00 % Core 3 m recovered 144.00 - 147.00 : 100.00 % RQD 100.00 % Core 3 m recovered 147.00 - 150.00 : 100.00 % RQD 100.00 % Core 3 m recovered 150.00 - 153.00 : 100.00 % RQD 100.00 % Core 3 m recovered 153.00 - 156.00 : 100.00 % RQD 100.00 % Core 3 m recovered								

Hole Number: **ESO-06-07**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
154.70	191.40	**FVOL, Felsic volcanic** Fine grained uniform sized quartz grains in a very fine sericite matrix The interval is massive but has some fabric developed that varies from parallel to the core axis to cutting the core axis at 40*. The interval is nonmagnetic. The interval has strong sericite development both along fabric (bedding?) and on partings. Sericite development with silicification suggests weak potassic alteration. Minor quartz/carbonate veining +- sulfides cut the interval. **Mineralization** 154.70 - 191.40 : ASP Arsenopyrite, Diss Disseminated, 0.01% 154.70 - 191.40 : PY Pyrite, Diss Disseminated, 0.5% **Alteration** 154.70 - 191.40 :SR Sericite, Pervasiv Pervasive, MOD Moderate 154.70 - 191.40 :CA Carbonate, FC Fracture Controlled, PEV Weak **RQD** 156.00 - 159.00 : 100.00 % RQD 100.00 % Core 3 m recovered 159.00 - 162.00 : 100.00 % RQD 100.00 % Core 3 m recovered 162.00 - 165.00 : 100.00 % RQD 100.00 % Core 3 m recovered 165.00 - 168.00 : 100.00 % RQD 100.00 % Core 3 m recovered 168.00 - 171.00 : 100.00 % RQD 100.00 % Core 3 m recovered 171.00 - 174.00 : 100.00 % RQD 100.00 % Core 3 m recovered 174.00 - 177.00 : 100.00 % RQD 100.00 % Core 3 m recovered 177.00 - 180.00 : 100.00 % RQD 100.00 % Core 3 m recovered 180.00 - 183.00 : 100.00 % RQD 100.00 % Core 3 m recovered 183.00 - 186.00 : 100.00 % RQD 100.00 % Core 3 m recovered 186.00 - 189.00 : 100.00 % RQD 100.00 % Core 3 m recovered 189.00 - 192.00 : 100.00 % RQD 100.00 % Core 3 m recovered **MINOR INTERVALS:** **Minor Interval:** 155.18 - 155.3 FVOL, Felsic volcanic pyrite (only) bloom on what appears to be a fold nose.								

Hole Number: **ESO-06-07**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
191.40	213.64	**ARG, Argillite** Dark gray to black fine grained argillite. The rock is composed primarily of fine grained quartz grains in a finer grained amphibole and feldspar matrix. The unit is thinly bedded and cuts at 20 to 45degrees from the core axis. The bedding shows commom soft sediment defirmation. The rock is nonmagnetic. The interval is relatively unaltered. Quartz/carbonate veining occurs accompanied by minor pyrite. Veining commonly occurs somewhat diffusely in fold noses. **Mineralization** 191.40 - 213.64 : PY Pyrite, Diss Disseminated, 0.5% **RQD** 192.00 - 195.00 : 100.00 % RQD 100.00 % Core 3 m recovered 195.00 - 198.00 : 100.00 % RQD 100.00 % Core 3 m recovered 198.00 - 201.00 : 100.00 % RQD 100.00 % Core 3 m recovered 201.00 - 204.00 : 100.00 % RQD 100.00 % Core 3 m recovered 204.00 - 207.00 : 100.00 % RQD 100.00 % Core 3 m recovered 207.00 - 210.00 : 100.00 % RQD 100.00 % Core 3 m recovered 210.00 - 213.00 : 100.00 % RQD 100.00 % Core 3 m recovered 213.00 - 216.00 : 100.00 % RQD 100.00 % Core 3 m recovered								

Hole Number: **ESO-06-07**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
213.64	226.40	**FVOL, Felsic volcanic** Fine grained uniform sized quartz grains in a very fine sericite matrix The interval is massive but has some fabric developed that varies from parallel to the core axis to cutting the core axis at 40°. The interval is nonmagnetic. The interval has strong sericite development both along fabric (bedding?) and on partings. Sericite development with silicification suggests weak potassic alteration. Minor quartz/carbonate veining +- sulfides cut the interval. **Mineralization** 213.64 - 226.40 : ASP Arsenopyrite, Diss Disseminated, 0.01% 213.64 - 226.40 : PY Pyrite, Blb Blebs, 0.5% 213.64 - 226.40 : PY Pyrite, Diss Disseminated, 0.5% **Alteration** 213.64 - 226.40 :SR Sericite, Pervasiv Pervasive, MOD Moderate **RQD** 216.00 - 219.00 : 100.00 % RQD 100.00 % Core 3 m recovered 219.00 - 222.00 : 100.00 % RQD 100.00 % Core 3 m recovered 222.00 - 225.00 : 100.00 % RQD 100.00 % Core 3 m recovered 225.00 - 228.00 : 100.00 % RQD 100.00 % Core 3 m recovered **MINOR INTERVALS:** **Minor Interval:** 213.64 - 214.4 FVOL, Felsic volcanic Transition zone from argillite. The quartz eyes which define the unit are irregular in shape and distribution. The fabric appears intact with a gradual increase in size and shape uniformity with depth. It may represent a cooling boundry?	73661	225.00	226.40	1.40				

Hole Number: **ESO-06-07**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
226.40	231.68	**CQV, Quartz-carbonate vein** White to milky fine grained quartz/sericite vein with minor carbonate. The vein cuts the core axis at 40*. The vein has dark inclusions/streaks of amphibole after some mafic or iron rich inclusions/bands. Ankerite occurs as whispy bands seemingly more associated with wall rock inclusions than in the vein itself. Sericite is intimately associated with the quartz and forms common bands of fluid flow within the vein. Sulfides are limited but widely scattered. Most sulfide (AsPy and Py) fringe the dark bands and wall rock fragments. A lesser amount float freely in the quartz. **Mineralization** 226.40 - 231.68 : ASP Arsenopyrite, Diss Disseminated, 1% 226.40 - 231.68 : PY Pyrite, Blb Blebs, 2% 226.40 - 231.68 : PY Pyrite, Diss Disseminated, 2% 226.40 - 231.68 : PY Pyrite, SS Stringers, 1% **RQD** 228.00 - 231.00 : 100.00 % RQD 100.00 % Core 3 m recovered 231.00 - 234.00 : 100.00 % RQD 100.00 % Core 3 m recovered	73662	226.40	227.40	1.00				
			73663	227.40	228.40	1.00				
			73664	228.40	229.40	1.00				
			73666	229.40	230.40	1.00				
			73667	230.40	231.68	1.28				

Hole Number: **ESO-06-07**

Units: METRIC

Detailed Lithology

From	To	Lithology
231.68	375.00	**ARG, Argillite** Dark gray to light gray fine grained argillite. The rock is composed primarily of fine grained quartz grains in a finer grained amphibole and feldspar matrix. The unit is thinly bedded and cuts at 20 to 45degrees from the core axis. The bedding shows commom soft sediment defirmation. The rock is nonmagnetic. Near the top of the section the rock has been pervasively altered, intensly in some zones. With depth (and distance from the quartz/carbonate vein above) the alteration fades. The interval has common quartz/carbonate veining. In some intervals the veining is intense. Irregular zones of carbonic and/or potassic alteration are detailed. **RQD** 234.00 - 237.00 : 100.00 % RQD 100.00 % Core 3 m recovered 237.00 - 240.00 : 100.00 % RQD 100.00 % Core 3 m recovered 240.00 - 243.00 : 100.00 % RQD 100.00 % Core 3 m recovered 243.00 - 246.00 : 100.00 % RQD 100.00 % Core 3 m recovered 246.00 - 249.00 : 100.00 % RQD 100.00 % Core 3 m recovered 249.00 - 252.00 : 100.00 % RQD 100.00 % Core 3 m recovered 252.00 - 255.00 : 100.00 % RQD 100.00 % Core 3 m recovered 255.00 - 258.00 : 100.00 % RQD 100.00 % Core 3 m recovered 258.00 - 261.00 : 100.00 % RQD 100.00 % Core 3 m recovered 261.00 - 264.00 : 100.00 % RQD 100.00 % Core 3 m recovered 264.00 - 267.00 : 100.00 % RQD 100.00 % Core 3 m recovered 267.00 - 270.00 : 100.00 % RQD 100.00 % Core 3 m recovered 270.00 - 273.00 : 100.00 % RQD 100.00 % Core 3 m recovered 273.00 - 276.00 : 100.00 % RQD 100.00 % Core 3 m recovered 276.00 - 279.00 : 100.00 % RQD 100.00 % Core 279.00 - 282.00 : 100.00 % RQD 100.00 % Core 282.00 - 285.00 : 100.00 % RQD 100.00 % Core 285.00 - 288.00 : 100.00 % RQD 100.00 % Core 288.00 - 291.00 : 100.00 % RQD 100.00 % Core

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
73668	231.68	233.00	1.32				
73669	233.00	234.50	1.50				
73670	234.50	236.00	1.50				
73671	236.00	237.50	1.50				
73672	237.50	239.00	1.50				
73673	239.00	240.50	1.50				
73674	240.50	242.00	1.50				
73676	315.00	316.50	1.50				
73677	316.50	318.00	1.50				
73678	318.00	319.00	1.00				
73679	319.00	320.00	1.00				
73680	320.00	321.00	1.00				
73681	321.00	322.50	1.50				
73682	322.50	324.00	1.50				
73683	324.00	325.50	1.50				
73684	325.50	326.50	1.00				
73686	326.50	327.50	1.00				
73687	327.50	328.50	1.00				
73688	328.50	329.50	1.00				
73689	329.50	330.50	1.00				
73690	330.50	331.50	1.00				
73691	331.50	332.50	1.00				
73692	332.50	333.50	1.00				
73693	333.50	334.50	1.00				
73694	334.50	336.00	1.50				
73696	336.00	337.50	1.50				
73697	337.50	339.00	1.50				
73698	339.00	340.50	1.50				
73699	340.50	342.00	1.50				
73700	342.00	343.00	1.00				
73701	343.00	344.00	1.00				
73702	344.00	345.00	1.00				
73703	345.00	346.50	1.50				
73704	346.50	347.50	1.00				
73706	347.50	348.50	1.00				
73707	348.50	349.50	1.00				
73708	349.50	351.00	1.50				
73709	356.13	357.63	1.50				
73710	357.63	358.47	0.84				
73711	358.47	360.00	1.53				

Hole Number: **ESO-06-07**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		RQD								
		291.00 - 294.00 : 100.00 % RQD 100.00 % Core								
		294.00 - 297.00 : 100.00 % RQD 100.00 % Core								
		297.00 - 300.00 : 100.00 % RQD 100.00 % Core								
		300.00 - 303.00 : 100.00 % RQD 100.00 % Core								
		303.00 - 306.00 : 100.00 % RQD 100.00 % Core								
		306.00 - 309.00 : 100.00 % RQD 100.00 % Core								
		309.00 - 312.00 : 100.00 % RQD 100.00 % Core								
		312.00 - 315.00 : 100.00 % RQD 100.00 % Core								
		315.00 - 318.00 : 100.00 % RQD 100.00 % Core								
		318.00 - 321.00 : 100.00 % RQD 100.00 % Core								
		321.00 - 324.00 : 100.00 % RQD 100.00 % Core								
		324.00 - 327.00 : 100.00 % RQD 100.00 % Core								
		327.00 - 330.00 : 100.00 % RQD 100.00 % Core								
		330.00 - 333.00 : 100.00 % RQD 100.00 % Core								
		333.00 - 336.00 : 100.00 % RQD 100.00 % Core								
		336.00 - 339.00 : 100.00 % RQD 100.00 % Core								
		339.00 - 342.00 : 100.00 % RQD 100.00 % Core								
		342.00 - 345.00 : 100.00 % RQD 100.00 % Core								
		345.00 - 348.00 : 100.00 % RQD 100.00 % Core								
		348.00 - 351.00 : 100.00 % RQD 100.00 % Core								
		351.00 - 354.00 : 100.00 % RQD 100.00 % Core								
		354.00 - 357.00 : 100.00 % RQD 100.00 % Core								
		357.00 - 360.00 : 100.00 % RQD 100.00 % Core								
		360.00 - 363.00 : 100.00 % RQD 100.00 % Core								
		363.00 - 366.00 : 100.00 % RQD 100.00 % Core								
		366.00 - 369.00 : 100.00 % RQD 100.00 % Core								
		369.00 - 372.00 : 100.00 % RQD 100.00 % Core								
		372.00 - 375.00 : 100.00 % RQD 100.00 % Core								

Hole Number: **ESO-06-07**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 231.68 - 244.1 ARG, Argillite Dark gray to light gray fine grained argillite. The rock is composed primarily of fine grained quartz grains in a finer grained amphibole and feldspar matrix. The unit is thinly bedded and cuts at 20 to 45degrees from the core axis. The bedding shows commom soft sediment defirmation. The rock is nonmagnetic.The rock has been pervasively altered, intensly in some zones. Sericite is the dominant mineral. Ankerite is common. Silicification is intense. Mineralization appears as sericitization, silicification, quartz/carbonate veining We are seeing a potassic alteration event. Pyrite apppears in the stronger silicified zones. **Mineralization** 231.68 - 244.10 : PY Pyrite, Blb Blebs, 2% 231.68 - 244.10 : PY Pyrite, Diss Disseminated, 1% **Alteration** 231.68 - 244.10 :SR Sericite, Pervasiv Pervasive, STG Strong 231.68 - 244.10 :CA Carbonate, Pervasiv Pervasive, MOD Moderate **Minor Interval:** 244.1 - 246.8 PBCONG, Pebble conglomerate A thin interval of flattened and stretched pebbles to cobbles. Some quartz/chert pebbles have retained some roundness but lithic pebbles are very elongated. The interval is potassically altered with the rims of the pebbles and the matrix being strongly sericitized. Pyrite is weak at 2-3%. **Mineralization** 244.10 - 246.80 : PY Pyrite, Diss Disseminated, 0.5% 244.10 - 246.80 : PY Pyrite, Blb Blebs, 1% **Minor Interval:** 280.8 - 282 ARG, Argillite bedding flattens fold nose? **Minor Interval:** 285.4 - 290.5 ARG, Argillite Fine grained thinly bedded light colored to white sediments. There is very weak sericite development. Trace of pyrite. Graditional with darker interbeds near each contact.								

Hole Number: **ESO-06-07**

Units: METRIC

Detailed Lithology

From	To	Lithology	Assay Data							
			Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 310 - 325.5 ARG, Argillite Intensity of quartz/carbonate veining increases. Most of the veining is ,1 mm and concordant. No apparent sulfidization with this event. A different generation of veining cutting the core axis at 50*-70* angles does carry pyrite to 5%. Pyrite was the only sulfide identified. **Mineralization** 310.00 - 325.00 : PY Pyrite, SS Stringers, 2% 310.00 - 325.00 : PY Pyrite, Blb Blebs, 2% 310.00 - 325.00 : PY Pyrite, Diss Disseminated, 1% **Alteration** 310.00 - 325.00 :CA Carbonate, FC Fracture Controlled, MOD Moderate **Minor Interval:** 325.5 - 350.5 ARG, Argillite Interval of moderate to strong alteration. Intensity of the alteration varies quickly and there are patches of weakly altered or unaltered argillite in the interval. Alteration type varies also. Near the top of the interval sericitic replacement is strong but it grades into strong ankerite bands then into a weakly altered zone then into another sericitic zone. Sulfides are irregularly distributed with a few concentrated bands of pyrite. Trace amounts of arsenopyrite were seen with banding near 345.5 and 347. **Mineralization** 325.50 - 350.50 : ASP Arsenopyrite, Diss Disseminated, 0.01% 325.50 - 350.50 : PY Pyrite, Blb Blebs, 2% 325.50 - 350.50 : PY Pyrite, SS Stringers, 3% 325.50 - 350.50 : PY Pyrite, Diss Disseminated, 1% **Alteration** 325.50 - 350.50 :CA Carbonate, FC Fracture Controlled, MOD Moderate 325.50 - 350.50 :SR Sericite, Pervasiv Pervasive, MOD Moderate **Minor Interval:** 357.65 - 360.6 ARG, Argillite Sharp contact into alteration. Interval has a bleached appearance but is very silicifiedSulfide bands occur occur at 357.75-357.77 and 358.32 to 358 37								

Samples

Sample Number	From	To	Au gpt	Ag ppm	Zn ppm	Cu ppm
Sample Type **ASSAY**						
73612	49.50	51.00				
73613	51.00	52.50				
73614	52.50	54.00				

Hole Number: **ESO-06-07**

Units: METRIC

Samples

Sample Number	From	To	Au gpt	Ag ppm	Zn ppm	Cu ppm
Sample Type **ASSAY**						
73616	54.00	55.40				
73617	55.40	56.00				
73618	56.00	57.00				
73619	57.00	58.00				
73620	58.00	59.00				
73621	59.00	60.00				
73622	60.00	61.00				
73623	61.00	62.00				
73624	62.00	63.00				
73626	63.00	64.00				
73627	64.00	65.00				
73628	65.00	66.00				
73629	66.00	67.00				
73630	67.00	68.00				
73631	68.00	69.00				
73632	69.00	70.00				
73633	70.00	71.00				
73634	71.00	72.00				
73636	72.00	72.60				
73637	72.60	73.60				
73638	73.60	74.60				
73639	74.60	75.60				
73640	75.60	76.60				
73641	76.60	77.60				
73642	77.60	78.60				
73643	78.60	79.90				
73644	79.90	81.00				
73646	81.00	82.00				
73647	82.00	83.00				
73648	83.00	84.00				
73649	84.00	85.50				
73650	85.50	87.00				
73651	87.00	88.50				
73652	88.50	90.00				
73653	111.00	112.00				
73654	112.00	113.00				
73656	113.00	114.00				
73657	128.00	129.53				

Hole Number: **ESO-06-07**

Units: METRIC

Samples

Sample Number	From	To	Au gpt	Ag ppm	Zn ppm	Cu ppm
Sample Type **ASSAY**						
73658	129.53	130.53				
73659	130.53	131.45				
73660	131.45	133.00				
73661	225.00	226.40				
73662	226.40	227.40				
73663	227.40	228.40				
73664	228.40	229.40				
73666	229.40	230.40				
73667	230.40	231.68				
73668	231.68	233.00				
73669	233.00	234.50				
73670	234.50	236.00				
73671	236.00	237.50				
73672	237.50	239.00				
73673	239.00	240.50				
73674	240.50	242.00				
73676	315.00	316.50				
73677	316.50	318.00				
73678	318.00	319.00				
73679	319.00	320.00				
73680	320.00	321.00				
73681	321.00	322.50				
73682	322.50	324.00				
73683	324.00	325.50				
73684	325.50	326.50				
73686	326.50	327.50				
73687	327.50	328.50				
73688	328.50	329.50				
73689	329.50	330.50				
73690	330.50	331.50				
73691	331.50	332.50				
73692	332.50	333.50				
73693	333.50	334.50				
73694	334.50	336.00				
73696	336.00	337.50				
73697	337.50	339.00				
73698	339.00	340.50				
73699	340.50	342.00				

Hole Number: **ESO-06-07**

Units: METRIC

Samples

Sample Number	From	To	Au gpt	Ag ppm	Zn ppm	Cu ppm
Sample Type **ASSAY**						
73700	342.00	343.00				
73701	343.00	344.00				
73702	344.00	345.00				
73703	345.00	346.50				
73704	346.50	347.50				
73706	347.50	348.50				
73707	348.50	349.50				
73708	349.50	351.00				
73709	356.13	357.63				
73710	357.63	358.47				
73711	358.47	360.00				

DETAILED LOG

Hole Number: **ESO-06-08**

Units: METRIC

Project Name:	Mikwam	Primary Coordinates	Grid: UTM:		Destination Coordinates	Grid: LOCAL:	Collar Dip: -60.00
Project Number:	ESO06-MK	North:	5483004.00		North:		Collar Az: 180.00
Location:	Surface	East:	592421.00		East:		Length: 241.00
		Elev:	272.2		Elev:		Start Depth: 0.00
Date Started:	Apr 25, 2006	Collar Survey: N	Plugged: N		Contractor:	Heath and Sherwood Drilling Inc.	Final Depth: 241.00
Date Completed:	Apr 29, 2006	Multishot Survey: N	Hole Size: BQ		Core Storage:	Mine Site	
		Pulse EM Survey: N	Casing: Left in Hole				

Comments:

Sample Averages

Survey Data

Depth	Azimuth Decimal	Dip Decimal	Test Type	Flag	Comments	Depth	Azimuth Decimal	Dip Decimal	Test Type	Flag	Comments
56.00	198.50	-57.20	ES	OK	roll 149.4 mag field 5885 temp 13	**101.00**	202.50	-56.30	ES	OK	roll 279.3 mag field 6006 temp 12.7
200.00	190.70	-48.00	ES	OK	roll 260.3 mag field 5651 8.8	**241.00**	184.00	-40.60	ES	OK	roll 28.5 mag field 5742 temp 16.2

Detailed Lithology

From	To	Lithology	Assay Data: Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
0	50.00	**OB, Overburden** **RQD** 47.00 - 50.00 : 100.00 % RQD 30.00 % Core 90 cm recovered								
50.00	61.00	**ARG, Argillite** Dark gray to black fine grained argillite. The rock is composed of fine grained amphibole in a finer grained amphibole matrix. The unit is thinly bedded with bedding fabric cutting the core at 30 to 50*. The interval is very soft and recovery was poor. Minor sulfides are present as are minor FeOx. Sulfide content less than 1%. It is in graditional contact with the lower unit of banded iron formation. **RQD** 50.00 - 53.00 : 100.00 % RQD 32.00 % Core 95 cm recovered 53.00 - 56.00 : 100.00 % RQD 42.00 % Core 1.25 m recovered 56.00 - 59.00 : 100.00 % RQD 70.00 % Core 2.10 m recovered 59.00 - 62.00 : 100.00 % RQD 77.00 % Core 2.32 m recovered	73712	59.00	60.50	1.50				
			73713	60.50	62.00	1.50				

Hole Number: **ESO-06-08**

Units: METRIC

Detailed Lithology

From	To	Lithology
61.00	99.90	**ARBIF, Argillitic iron formation** Dark greenish gray with black (magnetite) and white (silica) bands. This unit consists of a green fine grained amphibole in a very fine matrix. Occasional white siliceous bands and black magnetite bands are present. The unit is variably, strongly in places, magnetic. Apparent soft sediment deformation is common. This interval has occasional quartz/carbonate veining. Veining is concordant to bedding. The rock is totally oxidized to 66.25 where minor sulfides appear. Background sulfide is 2-3% with increased sulfides and/or iron oxides in places. **RQD** 62.00 - 65.00 : 100.00 % RQD 93.00 % Core 2.80 m recovered 65.00 - 68.00 : 100.00 % RQD 78.00 % Core 2.35 m recovered 68.00 - 71.00 : 100.00 % RQD 87.00 % Core 2.60 m recovered 71.00 - 74.00 : 100.00 % RQD 78.00 % Core 2.35 m recovered 74.00 - 77.00 : 100.00 % RQD 88.00 % Core 2.65 m recovered 77.00 - 80.00 : 100.00 % RQD 78.00 % Core 2.35 m reecovered 80.00 - 83.00 : 100.00 % RQD 88.00 % Core 2.65 m recovered 83.00 - 86.00 : 100.00 % RQD 97.00 % Core 2.9 m recovered 86.00 - 89.00 : 100.00 % RQD 100.00 % Core 3 m recovered 89.00 - 92.00 : 100.00 % RQD 63.00 % Core 1.9 m recovered 92.00 - 95.00 : 100.00 % RQD 97.00 % Core 2.9 m recovered 95.00 - 98.00 : 100.00 % RQD 100.00 % Core 3 m recovered 98.00 - 101.00 : 100.00 % RQD 100.00 % Core 3 m recovered **MINOR INTERVALS:** **Minor Interval:** 61 - 62 ARBIF, Argillitic iron formation strongly developed magnetite and white quartz bands. Increase in amount of iron oxides after sulfides. Estimate 5-7% total sulfides replaced.

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
73714	62.00	63.50	1.50				
73716	63.50	65.00	1.50				
73717	65.00	66.50	1.50				
73718	66.50	68.00	1.50				
73719	68.00	69.50	1.50				
73720	69.50	71.00	1.50				
73721	71.00	72.50	1.50				
73722	72.50	74.00	1.50				
73723	74.00	75.50	1.50				
73724	75.50	77.00	1.50				
73726	77.00	78.50	1.50				
73727	78.50	80.00	1.50				
73728	80.00	81.50	1.50				
73729	81.50	83.00	1.50				
73730	83.00	84.50	1.50				
73731	84.50	86.00	1.50				
73732	86.00	87.50	1.50				
73733	87.50	89.00	1.50				
73734	92.00	93.00	1.00				
73736	93.00	94.00	1.00				
73737	94.00	95.00	1.00				
73738	95.00	96.00	1.00				
73739	96.00	97.00	1.00				
73740	97.00	98.00	1.00				
73741	98.00	99.50	1.50				
73742	99.50	101.00	1.50				

Hole Number: **ESO-06-08**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 63 - 64 ARBIF, Argillitic iron formation strongly developed magnetite and white quartz bands. Increase in amount of iron oxides after sulfides. Estimate 5-7% total sulfides replaced. **Minor Interval:** 66 - 68 ARBIF, Argillitic iron formation strongly developed magnetite and white quartz bands. Increase in amount of iron oxides and sulfides. Estimate 5-7% total sulfides mostly replaced replaced. **Minor Interval:** 69.5 - 70.25 ARBIF, Argillitic iron formation strongly developed magnetite and white quartz bands. Increase in amount of iron oxides and sulfides. Estimate 5-7% total sulfides, mostly replaced **Minor Interval:** 77.5 - 79 ARBIF, Argillitic iron formation strongly developed magnetite, hematite, and white quartz bands. Increase in amount of iron oxides and sulfides. Estimate 5-7% total, lesser iron oxides **Minor Interval:** 80.2 - 80.3 ARBIF, Argillitic iron formation strongly developed magnetite, hematite, and white quartz bands. Increase in amount of iron oxides and sulfides. Estimate 5-7% total, minor iron oxides **Minor Interval:** 81.9 - 82.1 ARBIF, Argillitic iron formation Weakly discordant quartz/carbonate veining ankerite common in the veins, common pyrite associated with the veins **Mineralization** 81.90 - 82.10 : PY Pyrite, Diss Disseminated, 3% 81.90 - 82.10 : PY Pyrite, Blb Blebs, 1% 81.90 - 82.10 : PY Pyrite, SS Stringers, 2% **Minor Interval:** 82.1 - 84 ARG, Argillite dark green argillite with common discordant quartz/carbonate veining and weak pervasive quartz/carbonate alteration. Sulfide content increases. **Mineralization** 82.10 - 84.00 : PY Pyrite, Blb Blebs, 2% 82.10 - 84.00 : PY Pyrite, Diss Disseminated, 1% 82.10 - 84.00 : PY Pyrite, SS Stringers, 1% 82.10 - 84.00 : ASP Arsenopyrite, Diss Disseminated, 0.02% rare, assc with veining **Minor Interval:** 89 - 91 ARG, Argillite black soft crumbly leached zone, nil sulfide								

Hole Number: **ESO-06-08**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 93 - 96 ARG, Argillite dark green argillite with several thin sections of pervasive quartz/carbonate alteration sometimes surrounding weak veining. Sulfide increases in areas of alteration with rare arsenopyrite. **Mineralization** 93.00 - 96.00 : ASP Arsenopyrite, Diss Disseminated, 0.02% 93.00 - 96.00 : PY Pyrite, Diss Disseminated, 1% 93.00 - 96.00 : PY Pyrite, Blb Blebs, 2%								
99.90	106.80	**ARG, Argillite** Dark gray to black fine grained argillite. The rock is composed of fine grained amphibole in a finer grained amphibole matrix. The unit is thinly bedded with bedding fabric cutting the core at 30 to 50*. Soft sediment deformation as denoted by the bedding fabric is common. The contact with the upper argillic banded iron formation is sharp. The contact with the lower unit of siltstone is a gradational slight coarsening of grain size. The entire argillite unit has moderate quartz/carbonate alteration with common fine condordant veining, Sulfide content is low. **RQD** 101.00 - 104.00 : 100.00 % RQD 100.00 % Core 3 m recovered 104.00 - 107.00 : 100.00 % RQD 100.00 % Core 3 m recovered	73743	101.00	102.00	1.00				
			73744	102.00	103.00	1.00				
			73746	103.00	104.00	1.00				
			73747	104.00	105.00	1.00				

Hole Number: **ESO-06-08**

Units: METRIC

Detailed Lithology

From	To	Lithology
106.80	225.37	**SLTST, Siltstone** dark to medium gray fine grained siltstone. The interval is composed of fine amphibole in a matrix of finer amphibole and feldspathoid. The interval is mainly massive but minor finer interbeds of argillite near the top of the unit suggest bedding fabric. A second fabric cuts at nearly orthogonal angles. Towards the bottom of the unit a coarsening event takes place. Thin beds of sandstone and pebble conglomerate occur. Several fold noses are cut by the core. Bedding fabric suggests that bedding is at low angles (10-30°) to the core axis. Alteration is lower to middle greenschist. Mineralization is absent in most of the section. Minor zones of mineralization are included in the minors. Background sulfides are very rare. **RQD** 107.00 - 110.00 : 100.00 % RQD 100.00 % Core 3 m recovered 110.00 - 113.00 : 100.00 % RQD 100.00 % Core 3 m recovered 113.00 - 116.00 : 100.00 % RQD 100.00 % Core 3 m recovered 116.00 - 119.00 : 100.00 % RQD 100.00 % Core 3 m recovered 119.00 - 122.00 : 100.00 % RQD 100.00 % Core 3 m recovered 122.00 - 125.00 : 100.00 % RQD 100.00 % Core 3 m recovered 125.00 - 128.00 : 100.00 % RQD 100.00 % Core 3 m recovered 128.00 - 131.00 : 100.00 % RQD 100.00 % Core 3 m recovered 131.00 - 134.00 : 100.00 % RQD 100.00 % Core 3 m recovered 134.00 - 137.00 : 100.00 % RQD 100.00 % Core 3 m recovered 137.00 - 140.00 : 100.00 % RQD 100.00 % Core 3 m recovered 140.00 - 143.00 : 100.00 % RQD 100.00 % Core 3 m recovered 143.00 - 146.00 : 100.00 % RQD 100.00 % Core 3 m recovered 146.00 - 149.00 : 100.00 % RQD 100.00 % Core 3 m recovered 149.00 - 152.00 : 100.00 % RQD 100.00 % Core 3 m recovered 152.00 - 155.00 : 100.00 % RQD 100.00 % Core 3 m recovered

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
73748	135.00	136.00	1.00				
73749	136.00	137.00	1.00				
73750	153.50	154.97	1.47				
73751	154.97	155.78	0.81				
73752	155.78	156.85	1.07				
73753	156.85	158.00	1.15				
73754	158.00	158.70	0.70				
73756	158.70	159.67	0.97				
73757	159.67	160.36	0.69				
73758	160.36	162.00	1.64				
73759	162.00	163.74	1.74				
73760	163.74	164.62	0.88				
73761	164.62	165.50	0.88				
73762	165.50	167.00	1.50				
73763	167.00	168.00	1.00				
73764	168.00	169.10	1.10				
73766	169.10	169.61	0.51				
73767	169.61	170.63	1.02				
73768	170.63	171.78	1.15				
73769	171.78	173.00	1.22				
73770	192.27	193.27	1.00				
73771	193.27	194.35	1.08				
73772	194.35	195.16	0.81				
73773	195.16	196.66	1.50				
73774	224.00	225.37	1.37				

Hole Number: **ESO-06-08**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		RQD								
		155.00 - 158.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		158.00 - 161.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		161.00 - 164.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		164.00 - 167.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		167.00 - 170.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		170.00 - 173.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		173.00 - 176.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		176.00 - 179.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		179.00 - 182.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		182.00 - 185.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		185.00 - 188.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		188.00 - 191.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		191.00 - 194.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		194.00 - 197.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		197.00 - 200.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		200.00 - 203.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		203.00 - 206.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		206.00 - 209.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		209.00 - 212.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		212.00 - 215.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		215.00 - 218.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								

Hole Number: **ESO-06-08**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		RQD 218.00 - 221.00 : 100.00 % RQD 100.00 % Core 3 m recovered 221.00 - 224.00 : 100.00 % RQD 100.00 % Core 224.00 - 227.00 : 100.00 % RQD 100.00 % Core **MINOR INTERVALS:** **Minor Interval:** 122 - 123.5 SLTST, Siltstone zone of moderate calcite epidote +- magnetite alteration trace of pyrite **Minor Interval:** 135.25 - 136.9 SLTST, Siltstone this interval seems to represent fold noses of the two fabrics. Two styles of alteration are present. The younger? style is quartz/carbonate veining accompanied by minor pyrite. It cuts the core axis at 70-80*. The older alteration appears more pervasive bvut that may be due to metamorphism. It is a calcite epidote +- alteration that is roughly concordant with bedding. Both styles are weak. Total pyrite in the interval is .5%. **Mineralization** 135.25 - 136.90 : PY Pyrite, Blb Blebs, 0.5% **Alteration** 135.25 - 136.90 :E Epidote, Pervasiv Pervasive, PEV Weak 135.25 - 136.90 :CA Carbonate, Pervasiv Pervasive, PEV Weak 135.25 - 136.90 :CA Carbonate, FC Fracture Controlled, PEV Weak 135.25 - 136.90 :SI Silica, FC Fracture Controlled, PEV Weak 135.25 - 136.90 :M Magnetite, Pervasiv Pervasive, PEV Weak **Minor Interval:** 136.9 - 138.55 PBCONG, Pebble conglomerate This interval has flattened and stretched primarily quartz pebbles supported in a greenish clay matrix. The pebbles may have been quartzite. The pebbles contain a trace amount of pyrite. No sulfides in the matrix.. This unit cuts the core axis at about 45*. **Minor Interval:** 152 - 154 ARG, Argillite black soft argillite interval									

Hole Number: **ESO-06-08**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 154 - 171.78 SLTST, Siltstone This interval has been cut by numerous quartz+- carbonate veins. The veins cut the core axis at a 25 30* angle. The veins have been metamorphosed and consist of quartz, feldspathoid, and a dark mafic mineral (amphibole?). and to a minor degree boudined. Sulfides are mainly in the veins but have also weakly disseminated into the surrounding wallrock. Overall sulfide content is low exceeding .5% in only a few spots. **Mineralization** 154.00 - 171.78 : PY Pyrite, Blb Blebs, 1% 154.00 - 171.78 : PY Pyrite, SS Stringers, 1% 154.00 - 171.78 : PY Pyrite, Diss Disseminated, 0.5% 154.00 - 171.78 : ASP Arsenopyrite, Diss Disseminated, 0.01% **Minor Interval:** 193.27 - 195.16 SLTST, Siltstone interval of weak silicification. The interval has been moderately pervasively silica flooded. Silicification fades out in both directions. Weak sulfides present. **Mineralization** 193.27 - 195.16 : ASP Arsenopyrite, Diss Disseminated, 0.01% 193.27 - 195.16 : PY Pyrite, Blb Blebs, 0.5% 193.27 - 195.16 : PY Pyrite, SS Stringers, 0.5% 193.27 - 195.16 : PY Pyrite, Diss Disseminated, 0.25% **Minor Interval:** 198 - 225.37 SLTST, Siltstone From 198 there is a gradual coarsening of sediments. This small pebble conglomerates are mixed in with fine to coarse sandy units. There are some thin fine grained beds also.								
225.37	231.14	**CQV, Quartz-carbonate vein** White to light greenish gray fine to medium grained quartz/carbonate/sulfide vein. This zone has been totally replaced with quartz/carbonate/ minor sulfide. There are no relic textures. The quartz varies from a fine grained white sugary textured to a blue gray amorphous quartz. Ankerite and a green iron carbonate are common. Near the center of the zone minor clots of ankerite are common. Quartz dominates the zone. **Mineralization** 225.37 - 231.14 : ASP Arsenopyrite, Blb Blebs, 0.25% 225.37 - 231.14 : ASP Arsenopyrite, Diss Disseminated, 0.1% 225.37 - 231.14 : PY Pyrite, Blb Blebs, 1% 225.37 - 231.14 : PY Pyrite, Diss Disseminated, 0.5% 225.37 - 231.14 : PY Pyrite, SS Stringers, 1% **RQD** 227.00 - 230.00 : 100.00 % RQD 100.00 % Core 230.00 - 233.00 : 100.00 % RQD 100.00 % Core	73776	225.37	226.33	0.96				
			73777	226.33	227.29	0.96				
			73778	227.29	228.25	0.96				
			73779	228.25	229.21	0.96				
			73780	229.21	230.27	1.06				
			73781	230.27	231.14	0.87				

Hole Number: **ESO-06-08**

Units: METRIC

Detailed Lithology

From	To	Lithology
231.14	241.00	**SLTST, Siltstone** dark to medium gray fine grained siltstone. The interval is composed of fine amphibole in a matrix of finer amphibole and feldspathoid. The interval is mainly massive but minor finer interbeds of argillite near the top of the unit suggest bedding fabric. A second fabric cuts at nearly orthogonal angles.Thin beds of sandstone and pebble conglomerate occur. Bedding fabric suggests that bedding is at low to moderate angles (30-40*) to the core axis. Alteration is lower to middle greenschist. Mineralization is absent. Background sulfides are very rare. **RQD** 233.00 - 236.00 : 100.00 % RQD 100.00 % Core 236.00 - 239.00 : 100.00 % RQD 100.00 % Core

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
73782	231.14	232.50	1.36				
73783	232.50	234.00	1.50				

Samples

Sample Number	From	To	Au gpt	Ag ppm	Zn ppm	Cu ppm
Sample Type **ASSAY**						
73712	59.00	60.50				
73713	60.50	62.00				
73714	62.00	63.50				
73716	63.50	65.00				
73717	65.00	66.50				
73718	66.50	68.00				
73719	68.00	69.50				
73720	69.50	71.00				
73721	71.00	72.50				
73722	72.50	74.00				
73723	74.00	75.50				
73724	75.50	77.00				
73726	77.00	78.50				
73727	78.50	80.00				
73728	80.00	81.50				
73729	81.50	83.00				
73730	83.00	84.50				
73731	84.50	86.00				
73732	86.00	87.50				
73733	87.50	89.00				
73734	92.00	93.00				
73736	93.00	94.00				
73737	94.00	95.00				
73738	95.00	96.00				
73739	96.00	97.00				
73740	97.00	98.00				

Hole Number: **ESO-06-08**

Units: METRIC

Samples

Sample Number	From	To	Au gpt	Ag ppm	Zn ppm	Cu ppm
Sample Type **ASSAY**						
73741	98.00	99.50				
73742	99.50	101.00				
73743	101.00	102.00				
73744	102.00	103.00				
73746	103.00	104.00				
73747	104.00	105.00				
73748	135.00	136.00				
73749	136.00	137.00				
73750	153.50	154.97				
73751	154.97	155.78				
73752	155.78	156.85				
73753	156.85	158.00				
73754	158.00	158.70				
73756	158.70	159.67				
73757	159.67	160.36				
73758	160.36	162.00				
73759	162.00	163.74				
73760	163.74	164.62				
73761	164.62	165.50				
73762	165.50	167.00				
73763	167.00	168.00				
73764	168.00	169.10				
73766	169.10	169.61				
73767	169.61	170.63				
73768	170.63	171.78				
73769	171.78	173.00				
73770	192.27	193.27				
73771	193.27	194.35				
73772	194.35	195.16				
73773	195.16	196.66				
73774	224.00	225.37				
73776	225.37	226.33				
73777	226.33	227.29				
73778	227.29	228.25				
73779	228.25	229.21				
73780	229.21	230.27				
73781	230.27	231.14				
73782	231.14	232.50				

Hole Number: **ESO-06-08**

Units: METRIC

Samples

Sample Number	From	To	Au gpt	Ag ppm	Zn ppm	Cu ppm
Sample Type **ASSAY**						
73783	232.50	234.00				

DETAILED LOG

Hole Number: **ESO-06-09**

Units: METRIC

Project Name:	Mikwam	Primary Coordinates	Grid: UTM:	Destination Coordinates	Grid: LOCAL:	Collar Dip:	-45.00
Project Number:	ESO06-MK	North:	5483004.00	North:		Collar Az:	180.00
Location:	Surface	East:	592420.00	East:		Length:	306.00
		Elev:	272.2	Elev:		Start Depth:	0.00
Date Started:	Apr 29, 2006	Collar Survey: N	Plugged: N	Contractor:	Heath and Sherwood Drilling Inc.	Final Depth:	306.00
Date Completed:	May 03, 2006	Multishot Survey: N	Hole Size: BQ	Core Storage:	Mine Site		
		Pulse EM Survey: N	Casing: Left in Hole				

Comments:

Sample Averages

Survey Data

Depth	Azimuth Decimal	Dip Decimal	Test Type	Flag	Comments	Depth	Azimuth Decimal	Dip Decimal	Test Type	Flag	Comments
63.00	205.10	-46.90	ES	OK	roll 319.0 mag field 5757 temp 14.2	**111.00**	201.10	-45.90	ES	OK	roll 233.2 mag field 5793 temp 16.4
222.00	180.20	-32.80	ES	OK	roll 173.6 mag field 5616 temp 18.1	**306.00**	168.50	-21.90	ES	OK	roll 312.1 mag field 5697 temp 22.7

Detailed Lithology

From	To	Lithology
0	54.00	**OB, Overburden** deeper than usual overburden **RQD** 0.00 - 51.00 : 100.00 % RQD 100.00 % Core overburden 51.00 - 54.00 : 100.00 % RQD 100.00 % Core 1.76 m recovered

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm

Hole Number: **ESO-06-09**

Units: METRIC

Detailed Lithology

From	To	Lithology
54.00	84.10	**ARBIF, Argillitic iron formation** Dark greenish gray with black (magnetite) and white (silica) bands. This unit consists of a green fine grained amphibole in a very fine matrix. Occasional white siliceous bands and black magnetite bands are present. The unit is variably, strongly in places, magnetic. Apparent soft sediment deformation is common. Lower parts of the interval show some brittle deformation and have some offset in bedding. This fracturing has been filled with green matrix which appears to be matamorphic fluids. This interval has common quartz/carbonate veining with sulfides and/or iron oxides. Veining is primarily concordant to bedding. A very fine tensional gash veining also occurs. These gashs are filled with quartz and/or sulfide. The rock is totally oxidized to 59.5 where minor sulfides (pyrite and very fine grained arsenopyrite) appear. The last oxides are at 84.10. Background sulfide is 2-3% with increased sulfides and/or iron oxides in and adjacent to veining. The core is blocky and broken. Loss of core / sample quality caused the 1.5 m sampling standard. **RQD** 54.00 - 57.00 : 100.00 % RQD 100.00 % Core 3 m recovered 57.00 - 60.00 : 100.00 % RQD 100.00 % Core 2.7 m recovered 60.00 - 63.00 : 100.00 % RQD 100.00 % Core 2.1 m recovered 63.00 - 66.00 : 100.00 % RQD 100.00 % Core 2.4 m recovered 66.00 - 69.00 : 100.00 % RQD 100.00 % Core 2.4 m recovered 69.00 - 72.00 : 100.00 % RQD 100.00 % Core 2.5 m recovered 72.00 - 75.00 : 100.00 % RQD 100.00 % Core 2.8 m recovered 75.00 - 78.00 : 100.00 % RQD 100.00 % Core 2.8 m recovered 78.00 - 81.00 : 100.00 % RQD 100.00 % Core 2.6 m recovered 81.00 - 84.00 : 100.00 % RQD 100.00 % Core 2.8 m recovered 84.00 - 87.00 : 100.00 % RQD 100.00 % Core 2.9 m recovered
84.10	88.00	**ARG, Argillite** There is a gradual coarsening from argillite to siltstone at 88 m **RQD** 87.00 - 90.00 : 100.00 % RQD 100.00 % Core 3.0 recovered

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
73784	57.00	58.50	1.50				
73786	58.50	60.00	1.50				
73787	60.00	61.50	1.50				
73788	61.50	63.00	1.50				
73789	63.00	64.50	1.50				
73790	64.50	66.00	1.50				
73791	66.00	67.50	1.50				
73792	67.50	69.00	1.50				
73793	69.00	70.50	1.50				
73794	70.50	72.00	1.50				
73796	72.00	73.50	1.50				
73797	73.50	75.00	1.50				
73798	75.00	76.50	1.50				
73799	76.50	78.00	1.50				
73800	78.00	79.50	1.50				
73801	79.50	81.00	1.50				
73802	81.00	82.00	1.00				
73803	82.00	83.00	1.00				
73804	83.00	84.10	1.10				
73806	84.10	85.50	1.40				
73807	85.50	87.00	1.50				

Hole Number: **ESO-06-09**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
88.00	134.50	**SLTST, Siltstone** dark to medium gray fine grained siltstone. The interval is composed of fine amphibole in a matrix of finer amphibole and feldspathoid. The interval is mainly massive but minor finer interbeds of argillite near the top of the unit suggest bedding fabric. A second fabric cuts at nearly orthogonal angles. Towards the bottom of the unit a coarsening event takes place. Thin beds of sandstone and pebble conglomerate occur. Several fold noses are cut by the core. Bedding fabric suggests that bedding is at moderate angles (30-40°) to the core axis. Alteration is lower to middle greenschist. Mineralization is absent in most of the section. Minor zones of mineralization are included in the minors. Background sulfides are very rare. **RQD** 90.00 - 93.00 : 100.00 % RQD 100.00 % Core 3.0 recovered 93.00 - 96.00 : 100.00 % RQD 100.00 % Core 3.0 recovered 96.00 - 99.00 : 100.00 % RQD 100.00 % Core 3.0 recovered 99.00 - 102.00 : 100.00 % RQD 100.00 % Core 3.0 recovered 102.00 - 105.00 : 100.00 % RQD 100.00 % Core 3.0 recovered 105.00 - 108.00 : 100.00 % RQD 100.00 % Core 3.0 recovered 108.00 - 111.00 : 100.00 % RQD 100.00 % Core 3.0 recovered 111.00 - 114.00 : 100.00 % RQD 100.00 % Core 3.0 recovered 114.00 - 117.00 : 100.00 % RQD 100.00 % Core 3.0 recovered 117.00 - 120.00 : 100.00 % RQD 100.00 % Core 3.0 recovered 120.00 - 123.00 : 100.00 % RQD 100.00 % Core 3.0 recovered 123.00 - 126.00 : 100.00 % RQD 100.00 % Core 3.0 recovered 126.00 - 129.00 : 100.00 % RQD 100.00 % Core 3.0 recovered 129.00 - 132.00 : 100.00 % RQD 100.00 % Core 3.0 recovered 132.00 - 135.00 : 100.00 % RQD 100.00 % Core 3.0 recovered								

Hole Number: **ESO-06-09**

Units: METRIC

Detailed Lithology

From	To	Lithology
134.50	182.44	**PBCONG, Pebble conglomerate** This interval has pebble conglomerate layers mixed in with finer sedimentary units. There are a few thin sandstone and siltstone units mixed with muddy units. The porosity of the unit appears high and the entire unit is weakly altered. Graphitic parting are common near the top of the interval but change to sericitic partings by 170 m. Sericite development occurs but quartz/carbonate is more common primarily along veining. The quartz/carbonate/sericite alteration and quartz/carbonate/sericite veining increases in intensity to the bottom of this interval. Sulfidization is weak with 1-2% pyrite mainly as small blebs around veins and following some more receptive beds. Trace amounts of very fine grained arsenopyrite are widely disseminated **RQD** 135.00 - 138.00 : 100.00 % RQD 100.00 % Core 3.0 recovered 138.00 - 141.00 : 100.00 % RQD 100.00 % Core 3.0 recovered 141.00 - 144.00 : 100.00 % RQD 100.00 % Core 3.0 recovered 144.00 - 147.00 : 100.00 % RQD 100.00 % Core 3.0 recovered 147.00 - 150.00 : 100.00 % RQD 100.00 % Core 3.0 recovered 150.00 - 153.00 : 100.00 % RQD 100.00 % Core 3.0 recovered 153.00 - 156.00 : 100.00 % RQD 100.00 % Core 3.0 recovered 156.00 - 159.00 : 100.00 % RQD 100.00 % Core 3.0 recovered 159.00 - 162.00 : 100.00 % RQD 100.00 % Core 3.0 recovered 162.00 - 165.00 : 100.00 % RQD 100.00 % Core 3.0 recovered 165.00 - 168.00 : 100.00 % RQD 100.00 % Core 3.0 recovered 168.00 - 171.00 : 100.00 % RQD 100.00 % Core 3.0 recovered 171.00 - 174.00 : 100.00 % RQD 100.00 % Core 3.0 recovered 174.00 - 177.00 : 100.00 % RQD 100.00 % Core 3.0 recovered 177.00 - 180.00 : 100.00 % RQD 100.00 % Core 3.0 recovered 180.00 - 183.00 : 100.00 % RQD 100.00 % Core 3.0 recovered

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
73808	158.00	159.20	1.20				
73809	159.20	159.39	0.19				
73810	159.39	160.50	1.11				
73811	180.00	181.50	1.50				
73812	181.50	182.44	0.94				

Hole Number: **ESO-06-09**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 159.2 - 159.39 CQV, Quartz-carbonate vein A small quartz/carbonate vein cuts at 50 degrees to the core axis. It has common dark green amphibole after mafic minerals in the vein. It has common whispy ankerite and strong green carbonate. Sulfide with the vein is minor. Pyrite is most abundant in stringers that cut both the vein and the wallrock. **Mineralization** 159.20 - 159.39 : PY Pyrite, SS Stringers, 2% 159.20 - 159.39 : PY Pyrite, Diss Disseminated, 0.5% 159.20 - 159.39 : ASP Arsenopyrite, Diss Disseminated, 0.01% **Minor Interval:** 166.91 - 167.5 ARG, Argillite thin interval of dark green argillite **Minor Interval:** 168.14 - 168.21 CQV, Quartz-carbonate vein A small quartz/carbonate vein cuts at 50 degrees to the core axis. It has common whispy ankerite and strong green carbonate. Sulfide with the vein is minor. **Minor Interval:** 171.23 - 172 MVOL, Mafic Volcanic This thin dark green unit is very fine grained except for white feldspar laths to 1 mm, There are no chill margins so it doesn't appear to be a dike. It does look very similar to some of the pebbles in the conglomerate.								
182.44	183.55	**CQV, Quartz-carbonate vein** Quartz carbonate vein. This vein has white to blue gray quartz with ankerite and a green iron carbonate, It has common fine grained sulfides. **Mineralization** 182.44 - 183.55 : ASP Arsenopyrite, Diss Disseminated, 0.5% 182.44 - 183.55 : ASP Arsenopyrite, Blb Blebs, 1% 182.44 - 183.55 : PY Pyrite, Blb Blebs, 2% 182.44 - 183.55 : PY Pyrite, Diss Disseminated, 1% 182.44 - 183.55 : PY Pyrite, SS Stringers, 2% **Alteration** 182.44 - 183.55 :F Fuchsite, Pervasiv Pervasive, PEV Weak **RQD** 183.00 - 186.00 : 100.00 % RQD 100.00 % Core 3.0 recovered	73813	182.44	183.44	1.00				
			73814	183.44	184.44	1.00				

Hole Number: **ESO-06-09**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
183.55	184.44	**ARG, Argillite** Dark gray to light gray fine grained argillite. The rock is composed primarily of fine grained quartz grains in a finer grained amphibole and feldspar matrix. The unit is thinly bedded and cuts at 40 to 45degrees from the core axis. The rock is nonmagnetic.The rock has been pervasively altered, intensly in some zones. Ankerite is common. Silicification is intense. Mineralization appears as carbonitization, silicification, quartz/carbonate veining and thin (x cm) zones of leaching. Sericite is common. potassic alteration event? Pyrite apppears in the stronger silicified zones. **Alteration** 183.55 - 184.44 :CA Carbonate, FC Fracture Controlled, MOD Moderate 183.55 - 184.44 :SR Sericite, FC Fracture Controlled, MOD Moderate 183.55 - 184.44 :SI Silica, FC Fracture Controlled, MOD Moderate 183.55 - 184.44 :S Sulphide, FC Fracture Controlled, PEV Weak								
184.44	184.64	**MS, Massive sulphide** This interval is a narrow band of nearly massive pyrite. There are minor inclusions of quartz. **Mineralization** 184.44 - 184.64 : PY Pyrite, Mass Massive, 95%	73816	184.44	184.64	0.20				

Hole Number: **ESO-06-09**

Units: METRIC

Detailed Lithology

From	To	Lithology
184.64	195.10	**ARG, Argillite** Dark gray to light gray fine grained argillite. The rock is composed primarily of fine grained quartz grains in a finer grained amphibole and feldspar matrix. The unit is thinly bedded and cuts at 40 to 45 degrees from the core axis. The rock is nonmagnetic.The rock has been pervasively altered, intensly in some zones. Ankerite is common. Silicification is intense. Mineralization appears as carbonitization, silicification, and quartz/carbonate veining and thin (x cm) zones of leaching. Sericite is common. potassic alteration event? Pyrite and arsenopyrite apppear in the stronger silicified zones. **Mineralization** 184.64 - 195.10 : PY Pyrite, Blb Blebs, 2% 184.64 - 195.10 : PY Pyrite, Diss Disseminated, 1% 184.64 - 195.10 : ASP Arsenopyrite, Diss Disseminated, 0.25% **Alteration** 184.64 - 195.10 :SI Silica, Pervasiv Pervasive, MOD Moderate 184.64 - 195.10 :CA Carbonate, Pervasiv Pervasive, MOD Moderate 184.64 - 195.10 :SR Sericite, Pervasiv Pervasive, MOD Moderate **RQD** 186.00 - 189.00 : 100.00 % RQD 100.00 % Core 3.0 recovered 189.00 - 192.00 : 100.00 % RQD 100.00 % Core 3.0 recovered 192.00 - 195.00 : 100.00 % RQD 100.00 % Core 3.0 recovered 195.00 - 198.00 : 100.00 % RQD 100.00 % Core 3.0 recovered

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
73817	184.64	185.64	1.00				
73818	185.64	186.64	1.00				
73819	186.64	188.14	1.50				
73820	193.50	195.00	1.50				
73821	195.00	196.00	1.00				

Hole Number: **ESO-06-09**

Units: METRIC

Detailed Lithology

From	To	Lithology
195.10	205.56	**PBCONG, Pebble conglomerate** This interval has pebble conglomerate layers mixed in with finer sedimentary units. There are a few thin siltstone and argillite units mixed with units of small pebble in a fine sandy matrix. The porosity of the unit appears high and the entire unit is sericitically altered. Sericite development is moderate with common quartz/carbonate veining. The quartz/carbonate/sericite alteration and quartz/carbonate/sericite veining increases in intensity to the bottom of this interval. Sulfidization is moderate with 1-2% pyrite mainly as blebs around veins and following some more receptive beds. Some of the coarser pyrite blebs are cubic. Trace amounts of very fine grained arsenopyrite are widely disseminated **Mineralization** 195.10 - 205.56 : ASP Arsenopyrite, Diss Disseminated, 0.1% 195.10 - 205.56 : PY Pyrite, Diss Disseminated, 1% 195.10 - 205.56 : PY Pyrite, Blb Blebs, 1% 195.10 - 205.56 : PY Pyrite, SS Stringers, 1% **Alteration** 195.10 - 205.56 :CA Carbonate, Pervasiv Pervasive, MOD Moderate 195.10 - 205.56 :SI Silica, Pervasiv Pervasive, MOD Moderate 195.10 - 205.56 :SR Sericite, Pervasiv Pervasive, MOD Moderate **RQD** 198.00 - 201.00 : 100.00 % RQD 100.00 % Core 3.0 recovered 201.00 - 204.00 : 100.00 % RQD 100.00 % Core 3.0 recovered 204.00 - 207.00 : 100.00 % RQD 100.00 % Core 3.0 recovered **MINOR INTERVALS:** **Minor Interval:** 198.9 - 199 CQV, Quartz-carbonate vein White to light greenish gray fine to medium grained quartz/carbonate/sulfide vein. The vein is poorly defined and is somewhat pervasive alteration. Sulfides are not particularly high. **Mineralization** 198.90 - 199.00 : PY Pyrite, Blb Blebs, 1% 198.90 - 199.00 : PY Pyrite, SS Stringers, 2% 198.90 - 199.00 : PY Pyrite, Diss Disseminated, 1% 198.90 - 199.00 : ASP Arsenopyrite, Diss Disseminated, 0.25%

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
73822	196.00	197.00	1.00				
73823	197.00	198.00	1.00				
73824	198.00	198.90	0.90				
73826	198.90	199.90	1.00				
73827	199.90	200.90	1.00				
73828	200.90	202.00	1.10				
73829	202.00	203.00	1.00				
73830	203.00	204.00	1.00				
73831	204.00	205.00	1.00				
73832	205.00	206.00	1.00				

Hole Number: **ESO-06-09**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 200 - 200.2 CQV, Quartz-carbonate vein White to light greenish gray fine to medium grained quartz/carbonate/sulfide vein. The vein is poorly defined and is somewhat pervasive alteration. Sulfides are not particularly high. **Mineralization** 200.00 - 200.20 : PY Pyrite, SS Stringers, 2% 200.00 - 200.20 : PY Pyrite, Blb Blebs, 1% 200.00 - 200.20 : PY Pyrite, Diss Disseminated, 2% 200.00 - 200.20 : ASP Arsenopyrite, Diss Disseminated, 0.25% **Minor Interval:** 201.17 - 201.25 CQV, Quartz-carbonate vein White to light greenish gray fine to medium grained quartz/carbonate/sulfide vein. The vein is poorly defined and is somewhat pervasive alteration. Sulfides are not particularly high. **Mineralization** 201.17 - 201.25 : ASP Arsenopyrite, Diss Disseminated, 0.25% 201.17 - 201.25 : PY Pyrite, Blb Blebs, 2% 201.17 - 201.25 : PY Pyrite, Diss Disseminated, 1% 201.17 - 201.25 : PY Pyrite, SS Stringers, 2%								
205.56	215.68	**SLTST, Siltstone** Medium gray to light gray fine grained siltstone. This interval is a fining event from the unit above although occasional small pebbles are seen. The siltstone is finely bedded with intense folding. Bedding angles vary from nearly parallel to the core axis to about 70 degrees from the core axis. The entire interval has been pervasively altered. Sericite and silicification are dominant with ankerite and carbonate secondary. Sulfides are widely disseminated but low volume. **Mineralization** 205.56 - 215.68 : PY Pyrite, SS Stringers, 2% 205.56 - 215.68 : ASP Arsenopyrite, Diss Disseminated, 0.25% 205.56 - 215.68 : PY Pyrite, Blb Blebs, 2% 205.56 - 215.68 : PY Pyrite, Diss Disseminated, 1% **Alteration** 205.56 - 215.68 :CA Carbonate, Pervasiv Pervasive, MOD Moderate 205.56 - 215.68 :SR Sericite, Pervasiv Pervasive, STG Strong 205.56 - 215.68 :SI Silica, Pervasiv Pervasive, STG Strong **RQD** 207.00 - 210.00 : 100.00 % RQD 100.00 % Core 3.0 recovered 210.00 - 213.00 : 100.00 % RQD 100.00 % Core 3.0 recovered 213.00 - 216.00 : 100.00 % RQD 100.00 % Core 3.0 recovered	73833	206.00	207.00	1.00				
			73834	207.00	208.00	1.00				
			73836	208.00	209.00	1.00				
			73837	209.00	210.00	1.00				
			73838	210.00	211.00	1.00				
			73839	211.00	212.00	1.00				
			73840	212.00	213.00	1.00				
			73841	213.00	214.00	1.00				
			73842	214.00	215.00	1.00				
			73843	215.00	215.90	0.90				

Hole Number: **ESO-06-09**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
215.68	218.43	**ARG, Argillite** Dark gray to light gray fine grained argillite. The rock is composed primarily of fine grained quartz grains in a finer grained amphibole and feldspar matrix. The unit is thinly bedded and cuts at 50 to 70 degrees from the core axis. The rock is nonmagnetic.The rock has been pervasively altered, intensly in some zones. Silicification with sericite is intense. Ankerite is common. Mineralization appears as silicification, sericitization, carbonitization, and quartz/carbonate veining. potassic alteration event? Sulfides apppear in the stronger silicified zones. Intensity of alteration and mineralization increase with depth. **Mineralization** 215.68 - 218.43 : ASP Arsenopyrite, Diss Disseminated, 0.25% 215.68 - 218.43 : PY Pyrite, Blb Blebs, 1% 215.68 - 218.43 : PY Pyrite, Diss Disseminated, 0.5% 215.68 - 218.43 : PY Pyrite, SS Stringers, 2% **Alteration** 215.68 - 218.43 :SI Silica, Pervasiv Pervasive, STG Strong 215.68 - 218.43 :CA Carbonate, Pervasiv Pervasive, MOD Moderate 215.68 - 218.43 :SR Sericite, Pervasiv Pervasive, STG Strong **RQD** 216.00 - 219.00 : 100.00 % RQD 100.00 % Core 3.0 recovered	73844	215.90	216.50	0.60				
			73846	216.50	217.50	1.00				
			73847	217.50	218.43	0.93				
218.43	219.70	**CQV, Quartz-carbonate vein** This interval is a pervasive overprint of the metasediments. Origional rock type is unclear. The interval has been massively silica/sericite/ankerite/sulfide flooded. **Mineralization** 218.43 - 219.70 : ASP Arsenopyrite, Blb Blebs, 0.25% 218.43 - 219.70 : ASP Arsenopyrite, Diss Disseminated, 0.25% 218.43 - 219.70 : PY Pyrite, Diss Disseminated, 2% 218.43 - 219.70 : PY Pyrite, Blb Blebs, 2% 218.43 - 219.70 : PY Pyrite, SS Stringers, 2% 218.43 - 219.70 : PY Pyrite, Pat Patches, 2% **RQD** 219.00 - 222.00 : 100.00 % RQD 100.00 % Core 3.0 recovered	73848	218.43	219.00	0.57				
			73849	219.00	219.70	0.70				

Hole Number: **ESO-06-09**

Units: METRIC

Detailed Lithology

From	To	Lithology
219.70	271.37	**ARG, Argillite** Dark gray to light gray fine grained argillite. The rock is composed primarily of fine grained quartz grains in a finer grained amphibole and feldspar matrix. Thin sections of argillic iron formation occur. The unit is thinly bedded and cuts at 40 to 45 degrees from the core axis. The rock is mainly nonmagnetic except in the iron formation beds.The rock has been pervasively altered, moderately in some zones. Weak pervasive quartz/ankerite/pyrite occurs in several zones **Mineralization** 219.70 - 225.00 : ASP Arsenopyrite, Blb Blebs, 0.5% 219.70 - 225.00 : ASP Arsenopyrite, Diss Disseminated, 0.25% 219.70 - 225.00 : PY Pyrite, Blb Blebs, 2% 219.70 - 225.00 : PY Pyrite, Diss Disseminated, 1% 219.70 - 225.00 : PY Pyrite, SS Stringers, 2% 219.70 - 225.00 : PY Pyrite, Pat Patches, 2% **Alteration** 219.70 - 225.00 :CA Carbonate, Pervasiv Pervasive, MOD Moderate 219.70 - 225.00 :SI Silica, Pervasiv Pervasive, STG Strong 219.70 - 225.00 :SR Sericite, Pervasiv Pervasive, STG Strong **RQD** 222.00 - 225.00 : 100.00 % RQD 100.00 % Core 3.0 recovered 225.00 - 228.00 : 100.00 % RQD 100.00 % Core 3.0 recovered 228.00 - 231.00 : 100.00 % RQD 100.00 % Core 3.0 recovered 231.00 - 234.00 : 100.00 % RQD 100.00 % Core 3.0 recovered 234.00 - 237.00 : 100.00 % RQD 100.00 % Core 3.0 recovered 237.00 - 240.00 : 100.00 % RQD 100.00 % Core 3.0 recovered 240.00 - 243.00 : 100.00 % RQD 100.00 % Core 3.0 recovered 243.00 - 246.00 : 100.00 % RQD 100.00 % Core 3.0 recovered 246.00 - 249.00 : 100.00 % RQD 100.00 % Core 3.0 recovered 249.00 - 252.00 : 100.00 % RQD 100.00 % Core 3.0 recovered 252.00 - 255.00 : 100.00 % RQD 100.00 % Core 3.0 recovered 255.00 - 258.00 : 100.00 % RQD 100.00 % Core 3.0 recovered

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
73850	219.70	220.35	0.65				
73851	220.35	221.00	0.65				
73852	221.00	222.00	1.00				
73853	222.00	223.00	1.00				
73854	223.00	224.00	1.00				
73856	224.00	225.00	1.00				
73857	225.00	226.00	1.00				
73858	226.00	227.50	1.50				
73859	229.50	231.00	1.50				
73860	231.00	232.00	1.00				
73861	232.00	233.50	1.50				
73862	235.30	236.80	1.50				
73863	236.80	238.10	1.30				
73864	238.10	239.60	1.50				
73866	249.00	250.25	1.25				
73867	250.25	250.88	0.63				
73868	250.88	252.00	1.12				
73869	252.00	253.50	1.50				
73870	253.50	255.00	1.50				
73871	255.00	256.50	1.50				
73872	256.50	258.00	1.50				
73873	258.00	259.00	1.00				
73874	259.00	259.66	0.66				
73876	259.66	261.00	1.34				
73877	261.00	262.62	1.62				
73878	262.62	264.00	1.38				
73879	264.00	265.00	1.00				
73880	265.00	265.92	0.92				
73881	265.92	267.00	1.08				
73882	267.00	268.50	1.50				
73883	268.50	270.00	1.50				
73884	270.00	271.37	1.37				

Hole Number: **ESO-06-09**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		RQD 258.00 - 261.00 : 100.00 % RQD 93.00 % Core 2.8 m recovered 261.00 - 264.00 : 100.00 % RQD 93.00 % Core 2.8 m recovered 264.00 - 267.00 : 100.00 % RQD 93.00 % Core 2.8 m recovered 267.00 - 270.00 : 100.00 % RQD 93.00 % Core 2.8 m recovered 270.00 - 273.00 : 100.00 % RQD 100.00 % Core **MINOR INTERVALS:** **Minor Interval:** 219.7 - 225 ARBIF, Argillitic iron formation Dark greenish gray with black (magnetite) and white (silica) bands. This unit consists of a green fine grained amphibole in a very fine matrix. Occasional white siliceous bands and black magnetite bands are present. The unit is variably, strongly in places, magnetic. Parts of the interval show some brittle deformation and have some offset in bedding. This fracturing has been filled with quartz/sericite/carbonate/sulfides. **Mineralization** 219.70 - 225.00 : ASP Arsenopyrite, Diss Disseminated, 0.5% 219.70 - 225.00 : PY Pyrite, Diss Disseminated, 2% 219.70 - 225.00 : PY Pyrite, Blb Blebs, 2% 219.70 - 225.00 : PY Pyrite, SS Stringers, 2% **Alteration** 219.70 - 225.00 :CA Carbonate, Pervasiv Pervasive, MOD Moderate 219.70 - 225.00 :SI Silica, Pervasiv Pervasive, STG Strong 219.70 - 225.00 :SR Sericite, Pervasiv Pervasive, STG Strong **Minor Interval:** 231 - 232 ARG, Argillite several quartz/carbonate/sulfide veins cut the core axis at 45-50* **Mineralization** 231.00 - 232.00 : ASP Arsenopyrite, Diss Disseminated, 0.02% 231.00 - 232.00 : PY Pyrite, Blb Blebs, 1% 231.00 - 232.00 : PY Pyrite, Diss Disseminated, 1% **Minor Interval:** 236.8 - 238.1 ARG, Argillite several quartz/carbonate/sulfide veins cut the core axis at 45-50* **Mineralization** 236.80 - 238.10 : ASP Arsenopyrite, Diss Disseminated, 0.02% 236.80 - 238.10 : PY Pyrite, Diss Disseminated, 1% 236.80 - 238.10 : PY Pyrite, Blb Blebs, 1%								

Aug 18, 2006

DETAILED LOG

Units: METRIC

Hole Number: **ESO-06-09**

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 250.25 - 250.88 ARG, Argillite A single 2 cm quartz/carbonate /sulfide vein runs subparallel to the core axis. It has a thin (1mm) sulfide rim on the outer edge of the vein. Brecciated wall rock fragments are included in the vein **Mineralization** 250.25 - 250.88 : ASP Arsenopyrite, Diss Disseminated, 0.02% 250.25 - 250.88 : PY Pyrite, Diss Disseminated, 1% 250.25 - 250.88 : PY Pyrite, Blb Blebs, 1% **Alteration** 250.25 - 250.88 :CA Carbonate, Pervasiv Pervasive, PEV Weak 250.25 - 250.88 :CA Carbonate, FC Fracture Controlled, MOD Moderate 250.25 - 250.88 :SI Silica, FC Fracture Controlled, MOD Moderate 250.25 - 250.88 :SR Sericite, FC Fracture Controlled, MOD Moderate **Minor Interval:** 252 - 259.66 ARBIF, Argillitic iron formation Dark greenish gray with black (magnetite) and white (silica) bands. This unit consists of a green fine grained amphibole in a very fine matrix. Occasional white siliceous bands and black magnetite bands are present. The unit is variably, strongly in places, magnetic. Parts of the interval show some brittle deformation and have some offset in bedding. This fracturing/microveining has been weakly filled with quartz/sericite/carbonate/sulfides. **Mineralization** 252.00 - 259.66 : ASP Arsenopyrite, Diss Disseminated, 0.05% 252.00 - 259.66 : PY Pyrite, Diss Disseminated, 1% 252.00 - 259.66 : PY Pyrite, SS Stringers, 1% **Alteration** 252.00 - 259.66 :CA Carbonate, Pervasiv Pervasive, PEV Weak 252.00 - 259.66 :SI Silica, Pervasiv Pervasive, MOD Moderate 252.00 - 259.66 :SR Sericite, Pervasiv Pervasive, MOD Moderate **Minor Interval:** 259.66 - 262.62 ARG, Argillite black fine grained argillite **Minor Interval:** 262.62 - 265.92 ARBIF, Argillitic iron formation Dark greenish gray with black (magnetite) and white (silica) bands. This unit consists of a green fine grained amphibole in a very fine matrix. Occasional white siliceous bands and black magnetite bands are present. The unit is variably, strongly in places, magnetic. Parts of the interval show some brittle deformation and have some offset in bedding. This fracturing/microveining has been weakly filled with quartz/sericite/carbonate/sulfides. **Minor Interval:** 265.92 - 271.37 ARG, Argillite black fine grained argillite								

Aug 18, 2006

DETAILED LOG

Units: METRIC

Hole Number: **ESO-06-09**

Detailed Lithology

From	To	Lithology
271.37	306.00	**SLTST, Siltstone** Medium gray to light gray fine grained siltstone. This interval is a coarsening event from the unit above and is in gradational contact with the argillite. Occasional small pebbles are seen. The siltstone is thinly bedded with minor folding and distortion of bedding.. Bedding angles vary from nearly perpendicular to the core axis to about 50 degrees from the core axis. The entire interval has been pervasively altered. Sericite and silicification are dominant with ankerite and carbonate secondary. SOccasional quartz/carbonate veins are overprinted by the pervasive alteration. Sulfides are widely disseminated but low volume. **Mineralization** 271.37 - 306.00 : ASP Arsenopyrite, Diss Disseminated, 0.01% 271.37 - 306.00 : PY Pyrite, Diss Disseminated, 0.25% 271.37 - 306.00 : PY Pyrite, Blb Blebs, 0.25% 271.37 - 306.00 : PY Pyrite, SS Stringers, 0.25% **Alteration** 271.37 - 306.00 :CA Carbonate, Pervasiv Pervasive, MOD Moderate 271.37 - 306.00 :SI Silica, Pervasiv Pervasive, MOD Moderate 271.37 - 306.00 :SR Sericite, Pervasiv Pervasive, MOD Moderate **MINOR INTERVALS:** **Minor Interval:** 282 - 282.3 SLTST, Siltstone A 1-2 mm quartz/pyrite vein cuts the core axis at a low angle. The vein contains quartz and pyrite and shows open space filling structutes. Vein walls show sharp contacts

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
73886	271.37	272.00	0.63				
73887	272.00	273.00	1.00				
73888	273.00	274.00	1.00				
73889	274.00	275.00	1.00				
73890	275.00	276.00	1.00				
73891	276.00	277.50	1.50				
73892	277.50	279.00	1.50				
73893	279.00	280.50	1.50				
73894	280.50	282.00	1.50				
73896	282.00	282.30	0.30				
73897	282.30	283.50	1.20				
73898	283.50	285.00	1.50				
73899	285.00	286.50	1.50				
73900	286.50	288.00	1.50				
73901	288.00	289.50	1.50				
73902	289.50	291.00	1.50				
73903	291.00	292.50	1.50				
73904	292.50	294.00	1.50				
73906	294.00	295.50	1.50				
73907	295.50	297.00	1.50				
73908	297.00	298.50	1.50				
73909	298.50	300.00	1.50				
73910	300.00	301.50	1.50				
73911	301.50	303.00	1.50				
73912	303.00	304.50	1.50				
73913	304.50	306.00	1.50				

Samples

Sample Number	From	To	Au gpt	Ag ppm	Zn ppm	Cu ppm
Sample Type **ASSAY**						
73784	57.00	58.50				
73786	58.50	60.00				
73787	60.00	61.50				
73788	61.50	63.00				
73789	63.00	64.50				
73790	64.50	66.00				
73791	66.00	67.50				
73792	67.50	69.00				
73793	69.00	70.50				
73794	70.50	72.00				
73796	72.00	73.50				

Hole Number: **ESO-06-09**

Units: METRIC

Samples

Sample Number	From	To	Au gpt	Ag ppm	Zn ppm	Cu ppm
Sample Type **ASSAY**						
73797	73.50	75.00				
73798	75.00	76.50				
73799	76.50	78.00				
73800	78.00	79.50				
73801	79.50	81.00				
73802	81.00	82.00				
73803	82.00	83.00				
73804	83.00	84.10				
73806	84.10	85.50				
73807	85.50	87.00				
73808	158.00	159.20				
73809	159.20	159.39				
73810	159.39	160.50				
73811	180.00	181.50				
73812	181.50	182.44				
73813	182.44	183.44				
73814	183.44	184.44				
73816	184.44	184.64				
73817	184.64	185.64				
73818	185.64	186.64				
73819	186.64	188.14				
73820	193.50	195.00				
73821	195.00	196.00				
73822	196.00	197.00				
73823	197.00	198.00				
73824	198.00	198.90				
73826	198.90	199.90				
73827	199.90	200.90				
73828	200.90	202.00				
73829	202.00	203.00				
73830	203.00	204.00				
73831	204.00	205.00				
73832	205.00	206.00				
73833	206.00	207.00				
73834	207.00	208.00				
73836	208.00	209.00				
73837	209.00	210.00				
73838	210.00	211.00				

Hole Number: **ESO-06-09**

Units: METRIC

Samples

Sample Number	From	To	Au gpt	Ag ppm	Zn ppm	Cu ppm
Sample Type **ASSAY**						
73839	211.00	212.00				
73840	212.00	213.00				
73841	213.00	214.00				
73842	214.00	215.00				
73843	215.00	215.90				
73844	215.90	216.50				
73846	216.50	217.50				
73847	217.50	218.43				
73848	218.43	219.00				
73849	219.00	219.70				
73850	219.70	220.35				
73851	220.35	221.00				
73852	221.00	222.00				
73853	222.00	223.00				
73854	223.00	224.00				
73856	224.00	225.00				
73857	225.00	226.00				
73858	226.00	227.50				
73859	229.50	231.00				
73860	231.00	232.00				
73861	232.00	233.50				
73862	235.30	236.80				
73863	236.80	238.10				
73864	238.10	239.60				
73866	249.00	250.25				
73867	250.25	250.88				
73868	250.88	252.00				
73869	252.00	253.50				
73870	253.50	255.00				
73871	255.00	256.50				
73872	256.50	258.00				
73873	258.00	259.00				
73874	259.00	259.66				
73876	259.66	261.00				
73877	261.00	262.62				
73878	262.62	264.00				
73879	264.00	265.00				
73880	265.00	265.92				

Hole Number: **ESO-06-09**

Units: METRIC

Samples

Sample Number	From	To	Au gpt	Ag ppm	Zn ppm	Cu ppm
Sample Type **ASSAY**						
73881	265.92	267.00				
73882	267.00	268.50				
73883	268.50	270.00				
73884	270.00	271.37				
73886	271.37	272.00				
73887	272.00	273.00				
73888	273.00	274.00				
73889	274.00	275.00				
73890	275.00	276.00				
73891	276.00	277.50				
73892	277.50	279.00				
73893	279.00	280.50				
73894	280.50	282.00				
73896	282.00	282.30				
73897	282.30	283.50				
73898	283.50	285.00				
73899	285.00	286.50				
73900	286.50	288.00				
73901	288.00	289.50				
73902	289.50	291.00				
73903	291.00	292.50				
73904	292.50	294.00				
73906	294.00	295.50				
73907	295.50	297.00				
73908	297.00	298.50				
73909	298.50	300.00				
73910	300.00	301.50				
73911	301.50	303.00				
73912	303.00	304.50				
73913	304.50	306.00				

DETAILED LOG

Hole Number: **ESO-06-10**

Units: METRIC

Project Name:	Mikwam	Primary Coordinates	Grid: UTM:	Destination Coordinates	Grid: LOCAL:	Collar Dip:	-65.00
Project Number:	ESO06-MK	North:	5483107.00	North:		Collar Az:	180.00
Location:	Surface	East:	592420.00	East:		Length:	402.00
		Elev:	271.10	Elev:		Start Depth:	0.00
Date Started:	May 04, 2006	Collar Survey: N	Plugged: N	Contractor:	Heath and Sherwood Drilling Inc.	Final Depth:	402.00
Date Completed:	May 10, 2006	Multishot Survey: N	Hole Size: BQ	Core Storage:	Mine Site		
		Pulse EM Survey: N	Casing: Left in Hole				

Comments:

Sample Averages

Survey Data

Depth	Azimuth Decimal	Dip Decimal	Test Type	Flag	Comments	Depth	Azimuth Decimal	Dip Decimal	Test Type	Flag	Comments
60.00	202.90	-59.60	ES	OK	roll 247.6 mag field 6609	**100.00**	191.70	-56.20	ES	OK	roll 165.8 mag field 5992 temp 10.2
200.00	186.50	-49.10	ES	OK	roll 123.1 mag field 5764 temp 12.4	**300.00**	183.10	-44.50	ES	OK	roll 272.7 mag field 5783
400.00	190.00	-38.40	ES	OK							

Detailed Lithology

From	To	Lithology	Assay Data: Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
0	45.00	**OB, Overburden** overburden not retained								
45.00	53.60	**ARG, Argillite** Dark gray to black fine grained argillite. The rock consists of fine grained amphibole in a matrix of finer amphibole. The rock is fairly soft. This may be natural or the weathering of the unit. The rock is moderately oxidized. The unit is thinly bedded with bedding cutting the core axis at angles from 40* to 45*. The interval is primarily unaltered with only minor quartz/carbonate veining **RQD** 45.00 - 48.00 : 100.00 % RQD 82.00 % Core 2.45 m recovered 48.00 - 51.00 : 100.00 % RQD 93.00 % Core 2.80 m recovered 51.00 - 54.00 : 100.00 % RQD 93.00 % Core 2.80 m recovered								

Hole Number: **ESO-06-10**

Units: METRIC

Detailed Lithology

From	To	Lithology
53.60	87.00	**SLTST, Siltstone** Dark to medium greenish-gray fine grained siltstone. The interval is composed of fine amphibole and/or chlorite in a matrix of finer amphibole/chlorite and feldspathoid. The interval is mainly massive but minor finer interbeds of argillite suggest bedding fabric. Bedding fabric suggests that bedding is at moderate angles (40-50°) to the core axis. Alteration is lower to middle greenschist. Mineralization is absent in most of the section. Where present minor zones of mineralization are included in the minor comments. Background sulfides are very rare. The unit is weakly oxidized. **RQD** 54.00 - 57.00 : 100.00 % RQD 97.00 % Core 2.90 m recovered 57.00 - 60.00 : 100.00 % RQD 50.00 % Core 1.50 m recovered 60.00 - 63.00 : 100.00 % RQD 70.00 % Core 2.10 m recovered 63.00 - 66.00 : 100.00 % RQD 77.00 % Core 2.30 m recovered 66.00 - 69.00 : 100.00 % RQD 87.00 % Core 2.60 m recovered 69.00 - 72.00 : 100.00 % RQD 90.00 % Core 2.70 m recovered 72.00 - 75.00 : 100.00 % RQD 97.00 % Core 2.90 m recovered 75.00 - 78.00 : 100.00 % RQD 100.00 % Core 3 m recovered 78.00 - 81.00 : 100.00 % RQD 100.00 % Core 3 m recovered 81.00 - 84.00 : 100.00 % RQD 93.00 % Core 2.80 m recovered 84.00 - 87.00 : 100.00 % RQD 100.00 % Core 3 m recovered **MINOR INTERVALS:** **Minor Interval:** 57.3 - 57.9 CQV, Quartz-carbonate vein Oxidized quartz/carbonate vein

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
73914	55.80	57.30	1.50				
73916	57.30	57.90	0.60				
73917	57.90	60.00	2.10				
73918	73.30	74.80	1.50				
73919	74.80	75.32	0.52				
73920	75.32	76.82	1.50				
73921	83.00	84.00	1.00				
73922	84.00	85.00	1.00				
73923	85.00	86.00	1.00				

Hole Number: **ESO-06-10**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 74.8 - 75.32 CQV, Quartz-carbonate vein Partially oxidized quartz/carbonate vein common rusty streaks after ankerite some sulfides have oxidized along fractures but pyrite and arsenopyrite were identified **Mineralization** 74.80 - 75.32 : ASP Arsenopyrite, Blb Blebs, 0.5% 74.80 - 75.32 : ASP Arsenopyrite, Diss Disseminated, 0.5% 74.80 - 75.32 : PY Pyrite, Blb Blebs, 2% 74.80 - 75.32 : PY Pyrite, Diss Disseminated, 1% 74.80 - 75.32 : PY Pyrite, Pat Patches, 2% **Minor Interval:** 83.6 - 85.3 SLTST, Siltstone A series of quartz/carbonate veins cut the core axis concordant to bedding. Biggest is from 85.05 to 85.20. Veins are quartz/carbonate/sericite. There is minor alteration in the wallrock. Veining is partially oxidized. Sulfide content is low. **Mineralization** 83.60 - 85.30 : ASP Arsenopyrite, Diss Disseminated, 0.5% 83.60 - 85.30 : PY Pyrite, Diss Disseminated, 1% 83.60 - 85.30 : PY Pyrite, Blb Blebs, 2%								

Hole Number: **ESO-06-10**

Units: METRIC

Detailed Lithology

From	To	Lithology
87.00	199.55	**ARG, Argillite** Dark gray to black fine grained argillite. The rock consists of fine grained amphibole in a matrix of finer amphibole. The rock is weakly oxidized. The unit is thinly bedded with bedding cutting the core axis at angles from 40° to 45°. The interval is primarily unaltered with only minor quartz/carbonate veining. There is a less than 1% occurance of pyrite. **RQD** 87.00 - 90.00 : 100.00 % RQD 90.00 % Core 2.70 m recovered 90.00 - 93.00 : 100.00 % RQD 67.00 % Core 2.00 m recovered 93.00 - 96.00 : 100.00 % RQD 67.00 % Core 2.00 m recovered 96.00 - 99.00 : 100.00 % RQD 90.00 % Core 2.70 m recovered 99.00 - 102.00 : 100.00 % RQD 100.00 % Core 3 m recovered 102.00 - 105.00 : 100.00 % RQD 82.00 % Core 2.45 m recovered 105.00 - 108.00 : 100.00 % RQD 90.00 % Core 2.70 m recovered 108.00 - 111.00 : 100.00 % RQD 100.00 % Core 3 m recovered 111.00 - 114.00 : 100.00 % RQD 100.00 % Core 3 m recovered 114.00 - 117.00 : 100.00 % RQD 100.00 % Core 3 m recovered 117.00 - 120.00 : 100.00 % RQD 100.00 % Core 3 m recovered 120.00 - 123.00 : 100.00 % RQD 100.00 % Core 3 m recovered 123.00 - 126.00 : 100.00 % RQD 100.00 % Core 3 m recovered 126.00 - 129.00 : 100.00 % RQD 100.00 % Core 3 m recovered 129.00 - 132.00 : 100.00 % RQD 100.00 % Core 3 m recovered 132.00 - 135.00 : 100.00 % RQD 100.00 % Core 3 m recovered 135.00 - 138.00 : 100.00 % RQD 100.00 % Core 3 m recovered 138.00 - 141.00 : 100.00 % RQD 100.00 % Core 3 m recovered

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
73924	132.32	133.82	1.50				
73926	133.82	134.84	1.02				
73927	134.84	136.00	1.16				
73928	136.00	137.00	1.00				
73929	137.00	138.00	1.00				
73930	138.00	139.00	1.00				
73931	139.00	140.00	1.00				
73932	140.00	141.00	1.00				
73933	141.00	142.50	1.50				
73934	142.50	144.00	1.50				
73936	144.00	145.50	1.50				
73937	145.50	147.00	1.50				
73938	147.00	148.50	1.50				
73939	148.50	149.50	1.00				
73940	149.50	150.50	1.00				
73941	150.50	151.50	1.00				
73942	151.50	152.50	1.00				
73943	152.50	154.00	1.50				
73944	180.00	181.45	1.45				
73946	181.45	181.98	0.53				
73947	181.98	183.48	1.50				
73948	197.50	199.00	1.50				
73949	199.00	199.55	0.55				

Hole Number: **ESO-06-10**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		RQD								
		141.00 - 144.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		144.00 - 147.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		147.00 - 150.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		150.00 - 153.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		153.00 - 156.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		156.00 - 159.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		159.00 - 162.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		162.00 - 165.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		165.00 - 168.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		168.00 - 171.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		171.00 - 174.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		174.00 - 177.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		177.00 - 180.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		180.00 - 183.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		183.00 - 186.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		186.00 - 189.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		189.00 - 192.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		192.00 - 195.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		195.00 - 198.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		198.00 - 201.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								

Hole Number: **ESO-06-10**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 102 - 104 ARG, Argillite In this interval are 2 +- 10 cm quartz/carbonate/chlorite veins. Unusual due to high chlorite content. sulfides are minimal There is a fold nose from about 103.8 to 104 **Minor Interval:** 110 - 112 SLTST, Siltstone thin siltstone unit **Minor Interval:** 120.49 - 120.59 ARG, Argillite fold nose marked by quartz/carbonate vein/pod **Minor Interval:** 124 - 130 ARG, Argillite weak sericitic alteration / sericite along partings **Minor Interval:** 132.34 - 134.84 IVOL, Intermediate Volcanic Medium gray fine grained intermediate volcanic dike. The rock consists of fine grained amphibole in a matrix of quartz. Some of the amphibole has formed in lathlike structures similar to (after?) hornblende. Contacts at both top and bottom show 2-3 cm alteration zones. Alteration consists of quartz veining concordant to bedding and weak pyritization. **Minor Interval:** 135.5 - 140.5 ARG, Argillite Interval of extensive fine quartz veining with pyrite **Mineralization** 135.50 - 140.50 : PY Pyrite, Diss Disseminated, 2% 135.50 - 140.50 : PY Pyrite, Blb Blebs, 3% 135.50 - 140.50 : PY Pyrite, SS Stringers, 3% **Alteration** 135.50 - 140.50 :SI Silica, Pervasiv Pervasive, MOD Moderate 135.50 - 140.50 :S Sulphide, Pervasiv Pervasive, MOD Moderate 135.50 - 140.50 :SR Sericite, Pervasiv Pervasive, PEV Weak								

Hole Number: **ESO-06-10**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 140.5 - 143.5 ARG, Argillite decreasing veining, silicification, and sulfide increasing sericite **Mineralization** 140.50 - 143.50 : PY Pyrite, Blb Blebs, 2% 140.50 - 143.50 : PY Pyrite, Diss Disseminated, 1% 140.50 - 143.50 : PY Pyrite, SS Stringers, 1% **Alteration** 140.50 - 143.50 :S Sulphide, Pervasiv Pervasive, PEV Weak 140.50 - 143.50 :SI Silica, Pervasiv Pervasive, PEV Weak 140.50 - 143.50 :SR Sericite, Pervasiv Pervasive, MOD Moderate **Minor Interval:** 143.5 - 153 SLTST, Siltstone slightly coarser grained, strong sericite alteration, weak sulfide 149.3 - 149.7 increased pyrite is a fold nose 150.3 - 151.4 increased quartz/carbonate veining with minor sulfides 151.8 - 152.1 A late 1 mm quartz/carbonate pyrite vein cuts the core at ~10 degrees. Open space filling textures **Minor Interval:** 171 - 174 ARG, Argillite A series of fold noses cross in this interval ther is slightly elevated pyrite **Minor Interval:** 175.02 - 175.1 CQV, Quartz-carbonate vein A 6 cm quartz/carbonate vein cuts the core at 50*. It contains minimal sulfide **Minor Interval:** 181.45 - 181.98 ARG, Argillite A series of minor quartz veins cut the core. The best is 181.85 - 181.98 a quartz/pyrite set of stringers **Minor Interval:** 197.2 - 198.4 ARG, Argillite A single 1 mm quartz/pyrite vein runs near parallel to the core axis. The vein is late and show open space filling textures. **Minor Interval:** 199 - 199.4 ARG, Argillite A single 2 mm quartz/pyrite vein runs near parallel to the core axis. The vein is late and show open space filling textures. It is the same type as pervious entry only larger and more irregular								

Hole Number: **ESO-06-10**

Units: METRIC

Detailed Lithology

From	To	Lithology
199.55	201.80	**BX, Breccia** This interval starts with a quartz/pyrite vein from 199.55- 199.73. It cuts the core at 70-80°. It has limited sulfides. From 199.73 to ~201.80 is a breccia zone that has been healed by quartz/pyrite. The fragments are fairly fine and angular to subrounded. No gouge was seen. Some vugs lined with quartz and pyrite suggest open space filling. Quartz is the major substance filling the breccis. Sulfide, primarily pyrite, forms the remainder of the filling. Pyrhotite was tentatively identified. **Mineralization** 199.55 - 201.80 : PO Pyrhotite, Blb Blebs, 1% 199.55 - 201.80 : PY Pyrite, Blb Blebs, 4% 199.55 - 201.80 : PY Pyrite, SS Stringers, 3% 199.55 - 201.80 : PY Pyrite, Len Lenses, 5% 199.55 - 201.80 : PY Pyrite, Clst Clasts, 2% **RQD** 201.00 - 204.00 : 100.00 % RQD 92.00 % Core 2.75 m recovered

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
73950	199.55	200.00	0.45				
73951	200.00	201.00	1.00				
73952	201.00	202.00	1.00				

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Units: METRIC

Detailed Lithology

From	To	Lithology
201.80	224.78	**ARG, Argillite** This interval varies from a black to dark gray fine grained argillite to a greenisn white fine grained argillic banded iron formation. Grain size and low energy depositional environment ties the interval together. **RQD** 204.00 - 207.00 : 100.00 % RQD 100.00 % Core 3 m recovered 207.00 - 210.00 : 100.00 % RQD 100.00 % Core 3 m recovered 210.00 - 213.00 : 100.00 % RQD 100.00 % Core 3 m recovered 213.00 - 216.00 : 100.00 % RQD 100.00 % Core 3 m recovered 216.00 - 219.00 : 100.00 % RQD 100.00 % Core 3 m recovered 219.00 - 222.00 : 100.00 % RQD 100.00 % Core 3 m recovered 222.00 - 225.00 : 100.00 % RQD 100.00 % Core 3 m recovered **MINOR INTERVALS:** **Minor Interval:** 201.8 - 203.27 ARG, Argillite Black soft fine grained argillite, sooty **Minor Interval:** 203.27 - 224.78 ARBIF, Argillitic iron formation Dark greenish gray with black (magnetite) and white (silica) bands. This unit consists of a green fine grained amphibole in a very fine matrix. Occasional white siliceous bands and black magnetite bands are present. The unit is variably, strongly in places, magnetic. Apparent soft sediment deformation is common. Lower parts of the interval show some brittle deformation and have some offset in bedding. This fracturing has been filled with green matrix which appears to be matamorphic fluids. This interval has common quartz/carbonate veining with minor sulfides. Veining is primarily concordant to bedding. A very fine tensional gash veining also occurs. These gashs are filled with quartz and/or sulfide.

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
73953	202.00	203.00	1.00				
73954	203.00	204.00	1.00				
73956	204.00	205.50	1.50				
73957	205.50	207.00	1.50				

Hole Number: **ESO-06-10**

Units: METRIC

Detailed Lithology

From	To	Lithology
224.78	339.13	**SLTST, Siltstone** Dark to medium greenish-gray fine grained siltstone. The interval is composed of fine amphibole and/or chlorite in a matrix of finer amphibole/chlorite and feldspathoid. Thin interbeds of pebble conglomerate are common and the number of interbeds, their thickness , and pebble size increase with depth. The interval is mainly massive but bedding fabric suggests that bedding is at moderate angles (40-50*) to the core axis. Several fold noses were noted as defined by the flattening of bedding angles. Alteration is lower to middle greenschist. Mineralization is limited in most of the section. Background sulfides are very rare.Nearing the bottom of the interval mineralization increases as noted in the minor intervals. **RQD** 225.00 - 228.00 : 100.00 % RQD 100.00 % Core 3 m recovered 228.00 - 231.00 : 100.00 % RQD 100.00 % Core 3 m recovered 231.00 - 234.00 : 100.00 % RQD 100.00 % Core 3 m recovered 234.00 - 237.00 : 100.00 % RQD 100.00 % Core 3 m recovered 237.00 - 240.00 : 100.00 % RQD 100.00 % Core 3 m recovered 240.00 - 243.00 : 100.00 % RQD 100.00 % Core 3 m recovered 243.00 - 246.00 : 100.00 % RQD 100.00 % Core 3 m recovered 246.00 - 249.00 : 100.00 % RQD 100.00 % Core 3 m recovered 249.00 - 252.00 : 100.00 % RQD 100.00 % Core 3 m recovered 252.00 - 255.00 : 100.00 % RQD 100.00 % Core 3 m recovered 255.00 - 258.00 : 100.00 % RQD 100.00 % Core 3 m recovered 258.00 - 261.00 : 100.00 % RQD 100.00 % Core 3 m recovered 261.00 - 264.00 : 100.00 % RQD 100.00 % Core 3 m recovered 264.00 - 267.00 : 100.00 % RQD 100.00 % Core 3 m recovered 267.00 - 270.00 : 100.00 % RQD 100.00 % Core 3 m recovered 270.00 - 273.00 : 100.00 % RQD 100.00 % Core 3 m recovered

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
73958	331.00	332.50	1.50				
73959	332.50	334.00	1.50				
73960	334.00	335.50	1.50				
73961	335.50	336.50	1.00				
73962	336.50	337.42	0.92				
73963	337.42	338.28	0.86				
73964	338.28	339.13	0.85				

Hole Number: **ESO-06-10**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		RQD 273.00 - 276.00 : 100.00 % RQD 100.00 % Core 3 m recovered 276.00 - 279.00 : 100.00 % RQD 100.00 % Core 3 m recovered 279.00 - 282.00 : 100.00 % RQD 100.00 % Core 3 m recovered 282.00 - 285.00 : 100.00 % RQD 100.00 % Core 3 m recovered 285.00 - 288.00 : 100.00 % RQD 100.00 % Core 3 m recovered 288.00 - 291.00 : 100.00 % RQD 100.00 % Core 3 m recovered 291.00 - 294.00 : 100.00 % RQD 100.00 % Core 3 m recovered 294.00 - 297.00 : 100.00 % RQD 100.00 % Core 3 m recovered 297.00 - 300.00 : 100.00 % RQD 100.00 % Core 3 m recovered 300.00 - 303.00 : 100.00 % RQD 100.00 % Core 3 m recovered 303.00 - 306.00 : 100.00 % RQD 100.00 % Core 3 m recovered 306.00 - 309.00 : 100.00 % RQD 100.00 % Core 3 m recovered 309.00 - 312.00 : 100.00 % RQD 100.00 % Core 3 m recovered 312.00 - 315.00 : 100.00 % RQD 100.00 % Core 3 m recovered 315.00 - 318.00 : 100.00 % RQD 100.00 % Core 3 m recovered 318.00 - 321.00 : 100.00 % RQD 100.00 % Core 3 m recovered 321.00 - 324.00 : 100.00 % RQD 100.00 % Core 3 m recovered 324.00 - 327.00 : 100.00 % RQD 100.00 % Core 3 m recovered 327.00 - 330.00 : 100.00 % RQD 100.00 % Core 3 m recovered 330.00 - 333.00 : 100.00 % RQD 100.00 % Core 3 m recovered 333.00 - 336.00 : 100.00 % RQD 100.00 % Core 3 m recovered								

Hole Number: **ESO-06-10**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		RQD 336.00 - 339.00 : 100.00 % RQD 100.00 % Core 3 m recovered 339.00 - 342.00 : 100.00 % RQD 100.00 % Core 3 m recovered **MINOR INTERVALS:** **Minor Interval:** 271.4 - 272.6 PBCONG, Pebble conglomerate Poorly sorted small pebble conglomerate **Minor Interval:** 274.6 - 276 PBCONG, Pebble conglomerate Poorly sorted small pebble conglomerate **Minor Interval:** 276.3 - 277.7 PBCONG, Pebble conglomerate Poorly sorted small pebble conglomerate **Minor Interval:** 279 - 283.75 PBCONG, Pebble conglomerate Poorly sorted large pebble to cobble sized conglomerate **Minor Interval:** 292.3 - 293 PBCONG, Pebble conglomerate Poorly sorted small pebble conglomerate **Minor Interval:** 293 - 293.7 PBCONG, Pebble conglomerate Poorly sorted small pebble conglomerate **Minor Interval:** 308.5 - 310 PBCONG, Pebble conglomerate Poorly sorted small pebble conglomerate **Minor Interval:** 318 - 319.75 PBCONG, Pebble conglomerate Poorly sorted small pebble conglomerate **Minor Interval:** 321 - 322.5 PBCONG, Pebble conglomerate Poorly sorted small pebble conglomerate							

Hole Number: **ESO-06-10**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 327 - 335 PBCONG, Pebble conglomerate Scattered pebble conglomerate beds. The interval is weakly pervasively altered with alteration increasing with depth. **Mineralization** 327.00 - 335.00 : ASP Arsenopyrite, Diss Disseminated, 0.1% 327.00 - 335.00 : PY Pyrite, Blb Blebs, 2% 327.00 - 335.00 : PY Pyrite, Diss Disseminated, 2% 327.00 - 335.00 : PY Pyrite, SS Stringers, 1% 327.00 - 335.00 : SPH Sphalerite, Diss Disseminated, 0.05% along the wallrock/vein contact zone. Deposition early in vein life? **Alteration** 327.00 - 335.00 :SI Silica, Pervasiv Pervasive, MOD Moderate 327.00 - 335.00 :SR Sericite, Pervasiv Pervasive, MOD Moderate 327.00 - 335.00 :F Fuchsite, Pervasiv Pervasive, PEV Weak occasionalcrystals, commonly in pressure shadow of pebbles 327.00 - 335.00 :CA Carbonate, Pervasiv Pervasive, MOD Moderate **Minor Interval:** 335.5 - 338.28 SNSTN, Sandstone The interval is very light colored with common equally spaced quartz eyes. It may be a felsic volcanic or a sandstone. The matrix is very fine grained sericite. Starting in the pebble conglomerate above the unit is increasingly silicified, sericitized, and pyritized. Neart he bottom of the interval the overprinting is nearly complete. **Mineralization** 335.50 - 338.28 : ASP Arsenopyrite, Diss Disseminated, 0.5% 335.50 - 338.28 : PY Pyrite, Diss Disseminated, 1% 335.50 - 338.28 : PY Pyrite, Blb Blebs, 2% 335.50 - 338.28 scattered and assc with veining **Alteration** 335.50 - 338.28 :SI Silica, Pervasiv Pervasive, MOD Moderate 335.50 - 338.28 :SR Sericite, Pervasiv Pervasive, MOD Moderate 335.50 - 338.28 :S Sulphide, Pervasiv Pervasive, PEV Weak 335.50 - 338.28 :F Fuchsite, Pervasiv Pervasive, PEV Weak widely scattered with ankerite 335.50 - 338.28 :CA Carbonate, Pervasiv Pervasive, MOD Moderate								

Hole Number: **ESO-06-10**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 338.28 - 339.13 ARG, Argillite Black fine grained argillite. Upper contact is transitional from siltstone. The unit has been silicified and has common fine quartz and quartz/carbonate veining that is usually concordant to bedding **Mineralization** 338.28 - 339.13 : PY Pyrite, Blb Blebs, 2% 338.28 - 339.13 : PY Pyrite, SS Stringers, 2% 338.28 - 339.13 : PY Pyrite, Diss Disseminated, 1% 338.28 - 339.13 : ASP Arsenopyrite, Diss Disseminated, 0.25% **Alteration** 338.28 - 339.13 :SI Silica, FC Fracture Controlled, MOD Moderate 338.28 - 339.13 :SR Sericite, FC Fracture Controlled, PEV Weak								
339.13	339.60	**CQV, Quartz-carbonate vein** White sugary textured quartz with common ankerite and sulfides. It appears to be a total replacement of the host rather than a "vein". Off-white to tan whispy ankerite is common as is a green iron carbonate. Pyrite is the primary sulfide but arsenopyrite and sphalerite are also present. **Mineralization** 339.13 - 339.60 : ASP Arsenopyrite, Diss Disseminated, 1% 339.13 - 339.60 : PY Pyrite, Diss Disseminated, 2% 339.13 - 339.60 : PY Pyrite, Blb Blebs, 2% 339.13 - 339.60 : PY Pyrite, SS Stringers, 2% 339.13 - 339.60 : SPH Sphalerite, Blb Blebs, 0.05%	73966	339.13	339.60	0.47				

Hole Number: **ESO-06-10**

Units: METRIC

Detailed Lithology

From	To	Lithology
339.60	402.00	**SLTST, Siltstone** Dark to medium greenish-gray fine grained siltstone. The interval is composed of fine amphibole in a matrix of finer amphibol and feldspathoid. The interval is mainly massive but minor finer interbeds of argillite suggest bedding fabric. Bedding fabric suggests that bedding is at moderate angles (40-50°) to the core axis. Alteration is lower to middle greenschist. Mineralization is variable in most of the section dependant upon rock porosity (?) and proximity to structures controlling the mineralization. Background sulfides are ~1% with mineralized zones having greater amounts. **Alteration** 339.60 - 370.00 :CA Carbonate, Pervasiv Pervasive, PEV Weak 339.60 - 370.00 :SI Silica, Pervasiv Pervasive, PEV Weak 339.60 - 370.00 :SR Sericite, Pervasiv Pervasive, PEV Weak **RQD** 342.00 - 345.00 : 100.00 % RQD 100.00 % Core 3 m recovered 345.00 - 348.00 : 100.00 % RQD 100.00 % Core 3 m recovered 348.00 - 351.00 : 100.00 % RQD 100.00 % Core 3 m recovered 351.00 - 354.00 : 100.00 % RQD 100.00 % Core 3 m recovered 354.00 - 357.00 : 100.00 % RQD 100.00 % Core 3 m recovered 357.00 - 360.00 : 100.00 % RQD 100.00 % Core 3 m recovered 360.00 - 363.00 : 100.00 % RQD 100.00 % Core 3 m recovered 363.00 - 366.00 : 100.00 % RQD 100.00 % Core 3 m recovered 366.00 - 369.00 : 100.00 % RQD 100.00 % Core 3 m recovered 369.00 - 372.00 : 100.00 % RQD 100.00 % Core 3 m recovered 372.00 - 375.00 : 100.00 % RQD 100.00 % Core 3 m recovered 375.00 - 378.00 : 100.00 % RQD 100.00 % Core 3 m recovered 378.00 - 381.00 : 100.00 % RQD 100.00 % Core 3 m recovered 381.00 - 384.00 : 100.00 % RQD 100.00 % Core 3 m recovered 384.00 - 387.00 : 100.00 % RQD 100.00 % Core 3 m recovered

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
73967	339.60	340.50	0.90				
73968	340.50	341.50	1.00				
73969	341.50	342.50	1.00				
73970	342.50	343.50	1.00				
73971	343.50	344.50	1.00				
73972	344.50	345.50	1.00				
73973	345.50	347.00	1.50				
73974	347.00	348.50	1.50				
73976	348.50	350.00	1.50				
73977	350.00	351.50	1.50				
73978	351.50	353.00	1.50				
73979	363.00	364.50	1.50				
73980	364.50	366.00	1.50				
73981	366.00	367.50	1.50				
73982	367.50	369.00	1.50				
73983	376.50	378.00	1.50				
73984	378.00	379.00	1.00				
73986	379.00	380.05	1.05				
73987	380.05	381.00	0.95				
73988	381.00	382.50	1.50				
73989	393.00	394.50	1.50				
73990	394.50	396.00	1.50				

Hole Number: **ESO-06-10**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		RQD 387.00 - 390.00 : 100.00 % RQD 100.00 % Core 3 m recovered 390.00 - 393.00 : 100.00 % RQD 100.00 % Core 3 m recovered 393.00 - 396.00 : 100.00 % RQD 100.00 % Core 3 m recovered 396.00 - 399.00 : 100.00 % RQD 100.00 % Core 3 m recovered 399.00 - 402.00 : 100.00 % RQD 100.00 % Core 3 m recovered **MINOR INTERVALS:** **Minor Interval:** 339.6 - 344.3 SNSTN, Sandstone The interval is very light colored with common equally spaced quartz eyes. It may be a felsic volcanic or a sandstone. The matrix is very fine grained sericite. Near the top of the interval the overprinting is nearly complete. The alteration fades with depth. **Mineralization** 339.60 - 344.30 : ASP Arsenopyrite, Diss Disseminated, 0.25% 339.60 - 344.30 : PY Pyrite, Perv Pervasive, 2% 339.60 - 344.30 : PY Pyrite, Blb Blebs, 2% 339.60 - 344.30 : PY Pyrite, SS Stringers, 1% **Alteration** 339.60 - 344.30 :CA Carbonate, Pervasiv Pervasive, MOD Moderate 339.60 - 344.30 :SI Silica, Pervasiv Pervasive, MOD Moderate 339.60 - 344.30 :SR Sericite, Pervasiv Pervasive, PEV Weak 339.60 - 344.30 :F Fuchsite, Pervasiv Pervasive, PEV Weak **Minor Interval:** 344.3 - 362 SLTST, Siltstone Dark to medium greenish-gray fine grained siltstone. The interval is composed of fine amphibole in a matrix of finer amphibol and feldspathoid. The interval is mainly massive but minor finer interbeds of argillite suggest bedding fabric. Bedding fabric suggests that bedding is at moderate angles (40-50°) to the core axis. Alteration is lower to middle greenschist. The section is relatively unaltered and unmineralized.								

Hole Number: **ESO-06-10**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 362 - 380.05 SLTST, Siltstone Interval of stronger alteration. Sericitic partings and strong sericite development. Moderate silicification and moderate carbonitization. Notable absence of sulfides **Mineralization** 362.00 - 380.05 : PY Pyrite, Blb Blebs, 1% **Alteration** 362.00 - 380.05 :CA Carbonate, Pervasiv Pervasive, MOD Moderate 362.00 - 380.05 :SI Silica, Pervasiv Pervasive, MOD Moderate 362.00 - 380.05 :SR Sericite, Pervasiv Pervasive, STG Strong							

Samples

Sample Number	From	To	Au gpt	Ag ppm	Zn ppm	Cu ppm
Sample Type **ASSAY**						
73914	55.80	57.30				
73916	57.30	57.90				
73917	57.90	60.00				
73918	73.30	74.80				
73919	74.80	75.32				
73920	75.32	76.82				
73921	83.00	84.00				
73922	84.00	85.00				
73923	85.00	86.00				
73924	132.32	133.82				
73926	133.82	134.84				
73927	134.84	136.00				
73928	136.00	137.00				
73929	137.00	138.00				
73930	138.00	139.00				
73931	139.00	140.00				
73932	140.00	141.00				
73933	141.00	142.50				
73934	142.50	144.00				
73936	144.00	145.50				
73937	145.50	147.00				
73938	147.00	148.50				
73939	148.50	149.50				
73940	149.50	150.50				

Hole Number: **ESO-06-10**

Units: METRIC

Samples

Sample Number	From	To	Au gpt	Ag ppm	Zn ppm	Cu ppm
Sample Type **ASSAY**						
73941	150.50	151.50				
73942	151.50	152.50				
73943	152.50	154.00				
73944	180.00	181.45				
73946	181.45	181.98				
73947	181.98	183.48				
73948	197.50	199.00				
73949	199.00	199.55				
73950	199.55	200.00				
73951	200.00	201.00				
73952	201.00	202.00				
73953	202.00	203.00				
73954	203.00	204.00				
73956	204.00	205.50				
73957	205.50	207.00				
73958	331.00	332.50				
73959	332.50	334.00				
73960	334.00	335.50				
73961	335.50	336.50				
73962	336.50	337.42				
73963	337.42	338.28				
73964	338.28	339.13				
73966	339.13	339.60				
73967	339.60	340.50				
73968	340.50	341.50				
73969	341.50	342.50				
73970	342.50	343.50				
73971	343.50	344.50				
73972	344.50	345.50				
73973	345.50	347.00				
73974	347.00	348.50				
73976	348.50	350.00				
73977	350.00	351.50				
73978	351.50	353.00				
73979	363.00	364.50				
73980	364.50	366.00				
73981	366.00	367.50				
73982	367.50	369.00				

Hole Number: **ESO-06-10**

Units: METRIC

Samples

Sample Number	From	To	Au gpt	Ag ppm	Zn ppm	Cu ppm
Sample Type **ASSAY**						
73983	376.50	378.00				
73984	378.00	379.00				
73986	379.00	380.05				
73987	380.05	381.00				
73988	381.00	382.50				
73989	393.00	394.50				
73990	394.50	396.00				

DETAILED LOG

Hole Number: **ESO-06-11** Units: METRIC

Project Name:	Mikwam	Primary Coordinates	Grid: UTM:	Destination Coordinates	Grid: LOCAL:	Collar Dip:	-70.00
Project Number:	ESO06-MK	North:	5483107.00	North:		Collar Az:	180.00
Location:	Surface	East:	592372.00	East:		Length:	242.00
		Elev:	271.50	Elev:		Start Depth:	0.00
Date Started:	May 10, 2006	Collar Survey: N	Plugged: N	Contractor:	Heath and Sherwood Drilling Inc.	Final Depth:	242.00
Date Completed:	May 15, 2006	Multishot Survey: N	Hole Size: BQ	Core Storage:	Mine Site		
		Pulse EM Survey: N	Casing: Left in Hole				

Comments: Hole lost at 242 m with drill steel and core barrel in bottom of hole. Hole ESO-06-11A was a redrill and continuation of this hole.

Sample Averages

Survey Data

Depth	Azimuth Decimal	Dip Decimal	Test Type	Flag	Comments	Depth	Azimuth Decimal	Dip Decimal	Test Type	Flag	Comments
54.00	196.40	-68.60	ES	OK	roll 337.3 mag field 5966	**100.00**	198.90	-69.50	ES	OK	roll 78.4 mag field 5948
201.00	169.30	-61.00	ES	OK	roll 124.4 mag field 9177						

Detailed Lithology

From	To	Lithology	Assay Data: Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
0	44.00	**OB, Overburden** bouldery to about 44 cased to 42 **RQD** 42.00 - 45.00 : 100.00 % RQD 35.00 % Core 1.05 m recovered								

DETAILED LOG

Hole Number: **ESO-06-11**

Units: METRIC

Detailed Lithology

From	To	Lithology
44.00	148.10	**ARG, Argillite** Dark gray to light gray fine grained argillite. The rock is composed primarily of fine grained quartz grains in a finer grained amphibole and feldspar matrix. There are common siltstone interbeds. The unit is thinly bedded and cuts at 40 to 45 degrees from the core axis except in areas of fold noses where the bedding fabric flattens. The bedding shows commom soft sediment defirmation and at least one additional folding fabric. The rock is nonmagnetic.The rock has been pervasively altered, intensly in some zones. Sericite is common. Silicification approaches moderate in some zones. Mineralization appears as sericitazition, silicification, and zone of very fine but intense shear(?) microveining Pyrite apppears commonly with higher percentages in the stronger sericitized/silicified zones. **Alteration** 44.00 - 100.00 :SR Sericite, Pervasiv Pervasive, MOD Moderate 44.00 - 100.00 :SI Silica, Pervasiv Pervasive, MOD Moderate 44.00 - 100.00 :S Sulphide, Pervasiv Pervasive, PEV Weak **RQD** 45.00 - 48.00 : 100.00 % RQD 33.00 % Core 1.00 m recovered 48.00 - 51.00 : 100.00 % RQD 67.00 % Core 2.00 m recovered 51.00 - 54.00 : 100.00 % RQD 97.00 % Core 2.90 m recovered 54.00 - 57.00 : 100.00 % RQD 100.00 % Core 3. 00 m recovered 57.00 - 60.00 : 100.00 % RQD 100.00 % Core 3. 00 m recovered 60.00 - 63.00 : 100.00 % RQD 87.00 % Core 2.60 m recovered 63.00 - 66.00 : 100.00 % RQD 92.00 % Core 2.75 m recovered 66.00 - 69.00 : 100.00 % RQD 100.00 % Core 3. 00 m recovered 69.00 - 72.00 : 100.00 % RQD 97.00 % Core 2.90 m recovered 72.00 - 75.00 : 100.00 % RQD 92.00 % Core 2.75 m recovered 75.00 - 78.00 : 100.00 % RQD 90.00 % Core 2.70 m recovered 78.00 - 81.00 : 100.00 % RQD 93.00 % Core 2.80 m recovered 81.00 - 84.00 : 100.00 % RQD 100.00 % Core 3. 00 m recovered 84.00 - 87.00 : 100.00 % RQD 100.00 % Core 3. 00 m recovered

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
73991	51.00	52.00	1.00				
73992	52.00	53.00	1.00				
73993	53.00	54.00	1.00				
73994	54.00	55.00	1.00				
73996	55.00	56.00	1.00				
73997	56.00	57.00	1.00				
73998	57.00	58.00	1.00				
73999	58.00	59.00	1.00				
74000	59.00	60.00	1.00				
30001	60.00	61.00	1.00				
30002	61.00	62.00	1.00				
30003	62.00	63.00	1.00				
30004	63.00	64.00	1.00				
30006	64.00	65.00	1.00				
30007	65.00	66.00	1.00				
30008	66.00	67.00	1.00				
30009	67.00	68.00	1.00				
30010	68.00	69.00	1.00				
30011	69.00	70.50	1.50				
30012	70.50	72.00	1.50				
30013	72.00	73.50	1.50				
30014	73.50	75.00	1.50				
30016	75.00	76.50	1.50				
30017	76.50	78.00	1.50				
30018	78.00	79.00	1.00				
30019	79.00	80.28	1.28				
30020	80.28	81.00	0.72				
30021	81.00	82.00	1.00				
30022	82.00	83.00	1.00				
30023	83.00	84.00	1.00				
30024	84.00	85.00	1.00				
30026	85.00	86.00	1.00				
30027	86.00	87.00	1.00				
30028	87.00	88.00	1.00				
30029	88.00	89.00	1.00				
30030	89.00	90.00	1.00				
30031	90.00	91.00	1.00				
30032	91.00	92.06	1.06				
30033	92.06	93.00	0.94				
30034	93.00	94.64	1.64				
30036	94.64	96.00	1.36				
30037	96.00	97.50	1.50				

DETAILED LOG

Hole Number: **ESO-06-11**

Units: METRIC

Detailed Lithology

From	To	Lithology
		RQD
		87.00 - 90.00 : 100.00 % RQD 100.00 % Core
		3. 00 m recovered
		90.00 - 93.00 : 100.00 % RQD 100.00 % Core
		3. 00 m recovered
		93.00 - 96.00 : 100.00 % RQD 100.00 % Core
		3. 00 m recovered
		96.00 - 99.00 : 100.00 % RQD 100.00 % Core
		3. 00 m recovered
		99.00 - 102.00 : 100.00 % RQD 100.00 % Core
		3. 00 m recovered
		102.00 - 105.00 : 100.00 % RQD 100.00 % Core
		3. 00 m recovered
		105.00 - 108.00 : 100.00 % RQD 100.00 % Core
		3. 00 m recovered
		108.00 - 111.00 : 100.00 % RQD 100.00 % Core
		3. 00 m recovered
		111.00 - 114.00 : 100.00 % RQD 100.00 % Core
		3. 00 m recovered
		114.00 - 117.00 : 100.00 % RQD 100.00 % Core
		3. 00 m recovered
		117.00 - 120.00 : 100.00 % RQD 100.00 % Core
		3. 00 m recovered
		120.00 - 123.00 : 100.00 % RQD 100.00 % Core
		3. 00 m recovered
		123.00 - 126.00 : 100.00 % RQD 100.00 % Core
		3. 00 m recovered
		126.00 - 129.00 : 100.00 % RQD 100.00 % Core
		3. 00 m recovered
		129.00 - 132.00 : 100.00 % RQD 100.00 % Core
		3. 00 m recovered
		132.00 - 135.00 : 100.00 % RQD 100.00 % Core
		3. 00 m recovered
		135.00 - 138.00 : 100.00 % RQD 87.00 % Core
		2.60 m recovered
		138.00 - 141.00 : 100.00 % RQD 100.00 % Core
		3. 00 m recovered
		141.00 - 144.00 : 100.00 % RQD 100.00 % Core
		3. 00 m recovered
		144.00 - 147.00 : 100.00 % RQD 100.00 % Core
		3. 00 m recovered
		147.00 - 150.00 : 100.00 % RQD 100.00 % Core
		3. 00 m recovered

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
30038	97.50	99.00	1.50				
30039	99.00	100.50	1.50				
30040	115.50	117.00	1.50				
30041	117.00	118.19	1.19				
30042	118.19	119.62	1.43				
30043	126.00	127.50	1.50				
30044	127.50	129.00	1.50				

Hole Number: **ESO-06-11**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 44 - 51.5 ARG, Argillite Black fine grained argillite with common distorted thin quartz and (few) quartz/carbonate veins. Rock has been weakly pyritized. Partings are graphitic **Mineralization** 44.00 - 51.50 : PY Pyrite, Diss Disseminated, 2% 44.00 - 51.50 : PY Pyrite, Blb Blebs, 2% **Alteration** 44.00 - 51.50 :SR Sericite, Pervasiv Pervasive, PEV Weak 44.00 - 51.50 :SI Silica, Pervasiv Pervasive, PEV Weak 44.00 - 51.50 :S Sulphide, Pervasiv Pervasive, PEV Weak **Minor Interval:** 51.5 - 56.37 ARG, Argillite Black fine grained argillite. This argillite shows common very fine grained microfacturing that cuts perpendicular to the core axis. The fractures are filled with a black fine grained substance of unknown minerals. The rock has been sulfidized and sericitized. **Mineralization** 51.50 - 56.37 : PY Pyrite, Diss Disseminated, 2% 51.50 - 56.37 : PY Pyrite, Blb Blebs, 2% 51.50 - 56.37 : PY Pyrite, SS Stringers, 1% **Alteration** 51.50 - 56.37 :SR Sericite, Pervasiv Pervasive, MOD Moderate 51.50 - 56.37 :SI Silica, Pervasiv Pervasive, PEV Weak 51.50 - 56.37 :S Sulphide, Pervasiv Pervasive, PEV Weak **Minor Interval:** 56.37 - 59.6 SLTST, Siltstone Dark gray fine grained siltstone. This unit is more massive and shows less bedding fabric and minimal microveining. The unit has been moderately to strongly sericitized, silicified and pyritized **Mineralization** 56.37 - 59.60 : PY Pyrite, Blb Blebs, 2% 56.37 - 59.60 : PY Pyrite, Diss Disseminated, 2% 56.37 - 59.60 : PY Pyrite, SS Stringers, 2% 56.37 - 59.60 : ASP Arsenopyrite, Diss Disseminated, 0.01% possible very fine grained AsPy 56.37 - 59.60 : PY Pyrite, Pat Patches, 2% **Alteration** 56.37 - 59.60 :SR Sericite, Pervasiv Pervasive, STG Strong 56.37 - 59.60 :SI Silica, Pervasiv Pervasive, MOD Moderate 56.37 - 59.60 :S Sulphide, Pervasiv Pervasive, PEV Weak								

Hole Number: **ESO-06-11**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 59.6 - 67 ARG, Argillite Black fine grained argillite with common distorted thin quartz and (few) quartz/carbonate veins. Rock has been weakly pyritized. Partings are graphitic. A fold nose occurs around 64 m. **Mineralization** 59.60 - 67.00 : PY Pyrite, Blb Blebs, 2% 59.60 - 67.00 : PY Pyrite, Diss Disseminated, 2% 59.60 - 67.00 : PY Pyrite, SS Stringers, 2% **Alteration** 59.60 - 67.00 :S Sulphide, Pervasiv Pervasive, MOD Moderate 59.60 - 67.00 :CA Carbonate, FC Fracture Controlled, PEV Weak **Minor Interval:** 67 - 69 SLTST, Siltstone Dark gray fine grained siltstone. This unit is more massive and shows less bedding fabric and minimal microveining. The unit has been moderately to strongly sericitized, silicified and pyritized There appear to be 3 fold noses in this interval. Alteration is fairly intense. Some microveining/shearing also occurs. **Mineralization** 67.00 - 69.00 : PY Pyrite, Blb Blebs, 2% 67.00 - 69.00 : PY Pyrite, Diss Disseminated, 2% 67.00 - 69.00 : PY Pyrite, Pat Patches, 2% 67.00 - 69.00 : PY Pyrite, SS Stringers, 2% 67.00 - 69.00 : ASP Arsenopyrite, Diss Disseminated, 0.01% possible very fine grained disseminated AsPy **Alteration** 67.00 - 69.00 :SR Sericite, Pervasiv Pervasive, STG Strong 67.00 - 69.00 :SI Silica, Pervasiv Pervasive, MOD Moderate 67.00 - 69.00 :S Sulphide, Pervasiv Pervasive, PEV Weak								

Hole Number: **ESO-06-11**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 69 - 80.28 ARG, Argillite Black fine grained argillite with common distorted thin quartz and (few) quartz/carbonate veins. Rock has been weakly pyritized. Partings are graphitic. A fold noses occur several times between 74 m to 80 m. **Mineralization** 69.00 - 80.28 : PY Pyrite, Blb Blebs, 2% 69.00 - 80.28 : PY Pyrite, Diss Disseminated, 2% 69.00 - 80.28 : PY Pyrite, Pat Patches, 1% **Alteration** 69.00 - 80.28 :SI Silica, Pervasiv Pervasive, PEV Weak 69.00 - 80.28 :CA Carbonate, Pervasiv Pervasive, PEV Weak 69.00 - 80.28 :SR Sericite, Pervasiv Pervasive, PEV Weak 69.00 - 80.28 :S Sulphide, Pervasiv Pervasive, PEV Weak **Minor Interval:** 80.28 - 92.06 SLTST, Siltstone Dark gray fine grained siltstone. This unit is more massive and shows less bedding fabric and minimal microveining. The unit has been moderately to strongly sericitized, silicified and pyritized There appear to be 3 fold noses in this interval. Alteration is fairly intense. Some microveining/shearing also occurs. **Mineralization** 80.28 - 92.06 : PY Pyrite, Diss Disseminated, 2% 80.28 - 92.06 : PY Pyrite, Blb Blebs, 2% 80.28 - 92.06 : PY Pyrite, SS Stringers, 2% 80.28 - 92.06 : PY Pyrite, Pat Patches, 2% **Alteration** 80.28 - 92.06 :SR Sericite, Pervasiv Pervasive, STG Strong 80.28 - 92.06 :SI Silica, Pervasiv Pervasive, MOD Moderate 80.28 - 92.06 :S Sulphide, Pervasiv Pervasive, PEV Weak **Minor Interval:** 92.06 - 94.64 ARG, Argillite Black fine grained argillite with common distorted thin quartz and (few) quartz/carbonate veins. Rock has been weakly pyritized. Partings are graphitic. **Mineralization** 92.06 - 94.64 : PY Pyrite, Blb Blebs, 2% 92.06 - 94.64 : PY Pyrite, Diss Disseminated, 2% **Alteration** 92.06 - 94.64 :SR Sericite, Pervasiv Pervasive, PEV Weak 92.06 - 94.64 :SI Silica, Pervasiv Pervasive, PEV Weak								

Hole Number: **ESO-06-11**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 94.64 - 102 SLTST, Siltstone Dark gray fine grained siltstone. This unit is more massive and shows less bedding fabric and minimal microveining. The unit has been weakly to moderately sericitized, silicified and pyritized There appear to be 3 fold noses (95 m, 97 m, & 98 m) in this interval. Alteration is fairly weak. **Mineralization** 94.64 - 102.00 : PY Pyrite, Blb Blebs, 2% 94.64 - 102.00 : PY Pyrite, Diss Disseminated, 2% **Alteration** 94.64 - 102.00 :SR Sericite, Pervasiv Pervasive, MOD Moderate 94.64 - 102.00 :SI Silica, Pervasiv Pervasive, PEV Weak 94.64 - 102.00 :S Sulphide, Pervasiv Pervasive, PEV Weak **Minor Interval:** 102 - 104.87 ARG, Argillite Black fine grained argillite with common distorted thin quartz and (few) quartz/carbonate veins. Rock has been weakly pyritized. Partings are chloritic. **Mineralization** 102.00 - 104.87 : PY Pyrite, Blb Blebs, 1% 102.00 - 104.87 : PY Pyrite, Diss Disseminated, 1% **Alteration** 102.00 - 104.87 :SI Silica, Pervasiv Pervasive, PEV Weak 102.00 - 104.87 :SR Sericite, Pervasiv Pervasive, PEV Weak **Minor Interval:** 104.87 - 106.7 SLTST, Siltstone Dark gray fine grained siltstone. This unit is more massive and shows minor bedding fabric. The unit has been weakly sericitized, silicified and pyritized. Alteration is fairly weak. **Mineralization** 104.87 - 106.70 : PY Pyrite, Blb Blebs, 2% 104.87 - 106.70 : PY Pyrite, Diss Disseminated, 1% 104.87 - 106.70 : PY Pyrite, SS Stringers, 1% **Alteration** 104.87 - 106.70 :SR Sericite, Pervasiv Pervasive, MOD Moderate 104.87 - 106.70 :SI Silica, Pervasiv Pervasive, PEV Weak 104.87 - 106.70 :S Sulphide, Pervasiv Pervasive, PEV Weak								

Hole Number: **ESO-06-11**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 106.7 - 110.83 ARG, Argillite Black fine grained argillite with common distorted thin quartz and common quartz/carbonate veins. Rock has been weakly pyritized. Partings are chloritic. A fold nose around 109 m has heavy quartz/carbonate veining. **Mineralization** 106.70 - 110.83 : PY Pyrite, Blb Blebs, 1% 106.70 - 110.83 : PY Pyrite, Diss Disseminated, 1% **Alteration** 106.70 - 110.83 :CA Carbonate, FC Fracture Controlled, PEV Weak **Minor Interval:** 110.83 - 117.17 SLTST, Siltstone Dark gray fine grained siltstone. This unit is more massive and shows minor bedding fabric. Alteration is fairly weak. **Minor Interval:** 117.17 - 118.19 FVOL, Felsic volcanic Very fine grained quartz and white feldspar. The intervals has amphibole replacing a blade-like mafic mineral. Water lain felsic tuff? Weakly sericitized, devoid of sulfides. **Alteration** 117.17 - 118.19 :SR Sericite, Pervasiv Pervasive, PEV Weak **Minor Interval:** 118.19 - 126 ARG, Argillite Black fine grained argillite with occasional distorted thin quartz and/or quartz/carbonate veins. Rock has been weakly pyritized. Partings are graphitic. **Minor Interval:** 126 - 128.48 SLTST, Siltstone Dark gray fine grained siltstone. This unit is more massive and shows minor bedding fabric. Alteration is fairly weak. **Minor Interval:** 128.48 - 131.7 ARG, Argillite Black fine grained argillite with occasional distorted thin quartz and/or quartz/carbonate veins. Rock has been weakly pyritized. Partings are graphitic. **Minor Interval:** 131.7 - 133.14 SLTST, Siltstone Dark gray fine grained siltstone. This unit is more massive and shows minor bedding fabric. Sericitic alteration is present but weak. **Alteration** 131.70 - 133.14 :SR Sericite, Pervasiv Pervasive, PEV Weak **Minor Interval:** 133.14 - 133.3 FVOL, Felsic volcanic Fine grained quartz and feldspar. Weak contact metamorphism on uphole side. Small felsic dike?								

Hole Number: **ESO-06-11**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 133.3 - 137.27 SLTST, Siltstone Dark gray fine grained siltstone. This unit is more massive and shows minor bedding fabric. Sericitic alteration is moderate. This interval shows weak microfracturing particularly around 135.25. **Mineralization** 133.30 - 137.27 : PY Pyrite, Diss Disseminated, 0.25% **Alteration** 133.30 - 137.27 :SR Sericite, Pervasiv Pervasive, MOD Moderate 133.30 - 137.27 :SI Silica, Pervasiv Pervasive, PEV Weak **Minor Interval:** 137.27 - 148.1 ARG, Argillite Black fine grained argillite with occasional distorted thin quartz and/or quartz/carbonate veins. Rock has been weakly pyritized. Partings are graphitic.								

Hole Number: **ESO-06-11**

Units: METRIC

Detailed Lithology

From	To	Lithology
148.10	242.00	**SLTST, Siltstone** This interval is a dark to medium gray fine grained siltstone. The rock is composed of fine amphibole in a matrix of finer amphibole and feldspathoid. The interval is mainly massive but minor finer interbeds of argillite suggest bedding fabric. Several fold noses are cut by the core. Bedding fabric suggests that bedding is at moderate angles (30-50*) to the core axis except in areas of fold noses where the bedding flattens. Alteration is lower to middle greenschist. Mineralization is absent in most of the section. Minor zones of mineralization are included in the minors. Background sulfides are very rare. **Alteration** 148.10 - 240.00 :CA Carbonate, FC Fracture Controlled, PEV Weak 148.10 - 240.00 :SI Silica, FC Fracture Controlled, PEV Weak **RQD** 150.00 - 153.00 : 100.00 % RQD 100.00 % Core 3. 00 m recovered 153.00 - 156.00 : 100.00 % RQD 100.00 % Core 3. 00 m recovered 156.00 - 159.00 : 100.00 % RQD 100.00 % Core 2.90 m recovered 159.00 - 162.00 : 100.00 % RQD 100.00 % Core 2.90 m recovered 162.00 - 165.00 : 100.00 % RQD 100.00 % Core 2.85 m recovered 165.00 - 168.00 : 100.00 % RQD 100.00 % Core 1.90 m recovered 168.00 - 171.00 : 100.00 % RQD 100.00 % Core 3. 00 m recovered 171.00 - 174.00 : 100.00 % RQD 100.00 % Core 3. 00 m recovered 174.00 - 177.00 : 100.00 % RQD 100.00 % Core 3. 00 m recovered 177.00 - 180.00 : 100.00 % RQD 100.00 % Core 3. 00 m recovered 180.00 - 183.00 : 100.00 % RQD 100.00 % Core 3. 00 m recovered 183.00 - 186.00 : 100.00 % RQD 100.00 % Core 186.00 - 189.00 : 100.00 % RQD 100.00 % Core 189.00 - 192.00 : 100.00 % RQD 100.00 % Core **MINOR INTERVALS:** **Minor Interval:** 148.1 - 154.46 SLTST, Siltstone Dark gray fine grained siltstone. This unit is massive and shows minor bedding fabric. Alteration is fairly weak.

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
30046	213.00	214.00	1.00				
30047	214.00	215.00	1.00				
30048	215.00	216.00	1.00				
30049	216.00	216.76	0.76				
30050	216.76	218.00	1.24				
30051	218.00	219.00	1.00				
30052	219.00	220.00	1.00				
30053	220.00	221.00	1.00				
30054	221.00	222.00	1.00				
30056	222.00	223.00	1.00				
30057	223.00	223.64	0.64				
30058	223.64	225.00	1.36				

Hole Number: **ESO-06-11**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 154.46 - 154.85 CQV, Quartz-carbonate vein A series of veins cut the core at 30* to 50* from the core axcis.The veins are primarily white sugary quartz with minor ankerite. The veins have very limited sifides with small portions occasionaly approaching 1% pyrite. **Minor Interval:** 154.85 - 160 SLTST, Siltstone Dark gray fine grained siltstone. This unit is massive and shows minor bedding fabric. Alteration is fairly weak. Several thin leached zone appear between 157 m and 158 m. The are light colored vuggy sugary textured quartz. **Minor Interval:** 160 - 161.2 ARG, Argillite Black fine grained argillite with occasional distorted thin quartz and/or quartz/carbonate veins. Rock has been weakly pyritized. Partings are graphitic. **Minor Interval:** 161.2 - 165.4 SLTST, Siltstone Dark gray fine grained siltstone. This unit is massive and shows minor bedding fabric. Alteration is fairly weak. There is a zone of leaching of unknown thickness. The crumbly rock did not recover well and there was a ~1 m core loss in the 3 m interval. The remaining pieces are sugary textured siltstone with quartz, quartz/carbonate, and carbonate/chlorite/pyrite veining. **Minor Interval:** 165.4 - 169.88 ARG, Argillite Black fine grained argillite with occasional distorted thin quartz and/or quartz/carbonate veins. Rock has been weakly pyritized. Partings are graphitic. **Minor Interval:** 169.88 - 172.18 SLTST, Siltstone Dark gray fine grained siltstone. This unit is massive and shows minor bedding fabric. Alteration is fairly weak. **Minor Interval:** 172.18 - 173.32 ARG, Argillite Black fine grained argillite with occasional distorted thin quartz and/or quartz/carbonate veins. Rock has been weakly pyritized. Partings are graphitic. **Minor Interval:** 173.32 - 179.18 SLTST, Siltstone Dark gray fine grained siltstone. This unit is massive and shows minor bedding fabric. Alteration is fairly weak. **Minor Interval:** 179.18 - 181.43 ARG, Argillite Black fine grained argillite with occasional distorted thin quartz and/or quartz/carbonate veins. Rock has been weakly pyritized. Partings are graphitic. There is a fold nose around 180.								

Hole Number: **ESO-06-11**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 181.43 - 185.68 SLTST, Siltstone Dark gray fine grained siltstone. This unit is massive and shows minor bedding fabric. Alteration is fairly weak. **Minor Interval:** 185.68 - 191.77 ARG, Argillite Black fine grained argillite with occasional distorted thin quartz and/or quartz/carbonate veins. Rock has been weakly pyritized. Partings are graphitic. There is a fold nose with a quartz/carbonate vein at 187 m. **Minor Interval:** 191.77 - 206.9 SLTST, Siltstone Dark gray fine grained siltstone. This unit is massive and shows minor bedding fabric. Alteration is fairly weak. There is bed flattening and another fold nose at 199. Another fold at 201.5. A pair of quartz filled tension gashes at 206 m . A good example of a second penetrating fabric between 195.5 and 196 and again at 202.8. The second fabric is accompanied by weak sericitic alteration. **Alteration** 191.77 - 206.90 :SR Sericite, Pervasiv Pervasive, PEV Weak **Minor Interval:** 206.9 - 216.7 ARG, Argillite Black fine grained argillite with occasional distorted thin quartz and/or quartz/carbonate veins. Rock has been weakly pyritized. The section from 213.15 to 213.6 has been heavily pyritized concordant to bedding. Pyrit content increases to 3-4%. Another spot of increased pyrite on a fold nose at 215.3m. Another fold nose and pyrite increase about 215.5 past the contact with the next interval Partings remain graphitic. **Minor Interval:** 216.7 - 218.95 SLTST, Siltstone Dark gray fine grained siltstone. This unit is massive and shows minor bedding fabric. Alteration is fairly weak but pyrite increases near both upper and lower contacts.. **Minor Interval:** 218.95 - 223.64 ARG, Argillite Black fine grained argillite with occasional distorted thin quartz and/or quartz/carbonate veins. Rock has been pyritized. Pyrite content increases from 221.7 to 222. There is another increase accompanying a fold nose about223. Partings remain mostly graphitic with minor pyrite. **Minor Interval:** 223.64 - 228.51 SLTST, Siltstone Dark gray fine grained siltstone. This unit is massive and shows minor bedding fabric. Alteration is fairly weak. Three fold noses between 225 and 228 are not accompanied by sulfide.								

Hole Number: **ESO-06-11**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 228.51 - 230.79 ARG, Argillite Black fine grained argillite with occasional distorted thin quartz and/or quartz/carbonate veins. Partings remain mostly graphitic. There is a fold nose about 230.4. **Minor Interval:** 230.79 - 234.13 SLTST, Siltstone Dark gray fine grained siltstone. This unit is massive and shows minor bedding fabric. Alteration is fairly weak. A sharp fold nose is right at the contact. **Minor Interval:** 234.13 - 236.5 ARG, Argillite Black fine grained argillite with occasional distorted thin quartz and/or quartz/carbonate veins. Partings remain mostly graphitic. **Minor Interval:** 236.5 - 242 SLTST, Siltstone Dark gray fine grained siltstone. This unit is massive and shows minor bedding fabric. Alteration is fairly weak.								

Samples

Sample Number	From	To	Au gpt	Ag ppm	Zn ppm	Cu ppm
Sample Type **ASSAY**						
73991	51.00	52.00				
73992	52.00	53.00				
73993	53.00	54.00				
73994	54.00	55.00				
73996	55.00	56.00				
73997	56.00	57.00				
73998	57.00	58.00				
73999	58.00	59.00				
74000	59.00	60.00				
30001	60.00	61.00				
30002	61.00	62.00				
30003	62.00	63.00				
30004	63.00	64.00				
30006	64.00	65.00				
30007	65.00	66.00				
30008	66.00	67.00				
30009	67.00	68.00				
30010	68.00	69.00				
30011	69.00	70.50				

Hole Number: **ESO-06-11**

Units: METRIC

Samples

Sample Number	From	To	Au gpt	Ag ppm	Zn ppm	Cu ppm
Sample Type **ASSAY**						
30012	70.50	72.00				
30013	72.00	73.50				
30014	73.50	75.00				
30016	75.00	76.50				
30017	76.50	78.00				
30018	78.00	79.00				
30019	79.00	80.28				
30020	80.28	81.00				
30021	81.00	82.00				
30022	82.00	83.00				
30023	83.00	84.00				
30024	84.00	85.00				
30026	85.00	86.00				
30027	86.00	87.00				
30028	87.00	88.00				
30029	88.00	89.00				
30030	89.00	90.00				
30031	90.00	91.00				
30032	91.00	92.06				
30033	92.06	93.00				
30034	93.00	94.64				
30036	94.64	96.00				
30037	96.00	97.50				
30038	97.50	99.00				
30039	99.00	100.50				
30040	115.50	117.00				
30041	117.00	118.19				
30042	118.19	119.62				
30043	126.00	127.50				
30044	127.50	129.00				
30046	213.00	214.00				
30047	214.00	215.00				
30048	215.00	216.00				
30049	216.00	216.76				
30050	216.76	218.00				
30051	218.00	219.00				
30052	219.00	220.00				
30053	220.00	221.00				

Hole Number: **ESO-06-11**

Units: METRIC

Samples

Sample Number	From	To	Au gpt	Ag ppm	Zn ppm	Cu ppm
Sample Type **ASSAY**						
30054	221.00	222.00				
30056	222.00	223.00				
30057	223.00	223.64				
30058	223.64	225.00				

DETAILED LOG

Hole Number: **ESO-06-11A**

Units: METRIC

Project Name:	Mikwam	Primary Coordinates	Grid: UTM:		Destination Coordinates	Grid: LOCAL:	Collar Dip: -70.00
Project Number:	ESO06-MK	North:	5483107.00		North:		Collar Az: 180.00
Location:	Surface	East:	592372.00		East:		Length: 350.00
		Elev:	271.50		Elev:		Start Depth: 0.00
Date Started:	May 15, 2006	Collar Survey: N	Plugged: N		Contractor:	Heath and Sherwood Drilling Inc.	Final Depth: 350.00
Date Completed:	May 19, 2006	Multishot Survey: N	Hole Size: BQ		Core Storage:	Mine Site	
		Pulse EM Survey: N	Casing: Left in Hole				

Comments:

Sample Averages

Survey Data

Depth	Azimuth Decimal	Dip Decimal	Test Type	Flag	Comments	Depth	Azimuth Decimal	Dip Decimal	Test Type	Flag	Comments
50.00	200.60	-66.40	ES	OK	roll 230.6 mag field 5971 temp 24.3	**101.00**	201.70	-66.20	ES	OK	roll 294.4 mag field 5916 temp 17.5
200.00	182.70	-61.30	ES	OK	roll 311.6 mag field 5840 temp 18.4	**302.00**	176.50	-58.20	ES	OK	roll 150.6 mag field 5354 temp 14.6
350.00	193.80	-57.50	ES	OK	roll 208.9 mag field 5076 temp 13.9						

Detailed Lithology

From	To	Lithology
0	47.00	**OB, Overburden**
47.00	242.00	**MSED, Metasediments** This interval was logged in ESO-06-11. This hole is a redrill due to the drill pipe coming apart in the hole. Fishing attempts were unsucessful and hole 11 was abandoned with drill rod and complete core barrel in the bottom of the hole. Core was recovered to 242 in hole 11. Log of hole 11 A will start at 242. The redrilled hole was about .5 meter from lost hole 11.

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm

Hole Number: **ESO-06-11A**

Units: METRIC

Detailed Lithology

From	To	Lithology
242.00	267.30	**ARG, Argillite** Dark gray to light gray fine grained argillite. The rock is composed primarily of fine grained quartz grains in a finer grained amphibole and feldspar matrix. There are common siltstone interbeds. The unit is thinly bedded and cuts at 40 to 45 degrees from the core axis except in areas of fold noses where the bedding fabric flattens. The bedding shows commom soft sediment defirmation and at least one additional folding fabric. The rock is nonmagnetic.The rock has been weakly but pervasively altered, intensity increases in some zones. Sericite is common within these zones. Silicification approaches moderate in some zones. Mineralization appears as sericitazition, silicification, and pyritization Pyrite apppears commonly with higher percentages in the stronger sericitized/silicified zones. **RQD** 242.00 - 245.00 : 100.00 % RQD 100.00 % Core 3 m recovered 245.00 - 248.00 : 100.00 % RQD 100.00 % Core 3 m recovered 248.00 - 251.00 : 100.00 % RQD 100.00 % Core 3 m recovered 251.00 - 254.00 : 100.00 % RQD 100.00 % Core 3 m recovered 254.00 - 257.00 : 100.00 % RQD 100.00 % Core 3 m recovered 257.00 - 260.00 : 100.00 % RQD 100.00 % Core 3 m recovered 260.00 - 263.00 : 100.00 % RQD 100.00 % Core 3 m recovered 263.00 - 266.00 : 100.00 % RQD 100.00 % Core 3 m recovered 266.00 - 269.00 : 100.00 % RQD 100.00 % Core 3 m recovered **MINOR INTERVALS:** **Minor Interval:** 242 - 255.85 ARG, Argillite Dark gray to light gray fine grained argillite. The rock is composed primarily of fine grained quartz grains in a finer grained amphibole and feldspar matrix. There are common thin (1-2 cm) siltstone interbeds. The unit is thinly bedded and cuts at 40 to 45 degrees from the core axis except in areas of fold noses where the bedding fabric flattens. The bedding shows commom soft sediment defirmation and at least one additional folding fabric. The rock is nonmagnetic.The rock is weakly altered.

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
30059	254.35	255.85	1.50				
30060	255.85	256.77	0.92				
30061	256.77	258.23	1.46				
30062	259.70	261.20	1.50				
30063	261.20	261.94	0.74				
30064	261.94	262.70	0.76				
30066	262.70	264.00	1.30				
30067	264.00	265.00	1.00				
30068	265.00	266.00	1.00				
30069	266.00	267.30	1.30				

Hole Number: **ESO-06-11A**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 255.85 - 256.77 ARG, Argillite A series of small quartz/carbonate +- sulfide veins and pyrite +- minor quartz/carbonate stringers cut the core in this interval. The system cuts at about 70*from the core axis. The quartz carbonate veining is weak but the pyrite stringers are common. Very little pervasive alteration. **Mineralization** 255.85 - 256.77 : PY Pyrite, SS Stringers, 5% 255.85 - 256.77 : PY Pyrite, Blb Blebs, 2% 255.85 - 256.77 : PY Pyrite, Diss Disseminated, 1% **Alteration** 255.85 - 256.77 :S Sulphide, FC Fracture Controlled, MOD Moderate 255.85 - 256.77 :CA Carbonate, FC Fracture Controlled, PEV Weak 255.85 - 256.77 :SI Silica, FC Fracture Controlled, PEV Weak **Minor Interval:** 256.77 - 261.2 ARG, Argillite black fine grained argillite **Minor Interval:** 261.2 - 262.7 ARG, Argillite Black fine grained argillite. Three +- 5 cm quartz/carbonate/pyrite veins cut through in this interval. The veins carry about 3-5% sulfide. **Mineralization** 261.20 - 262.70 : PY Pyrite, SS Stringers, 3% 261.20 - 262.70 : PY Pyrite, Blb Blebs, 1% 261.20 - 262.70 : PY Pyrite, Diss Disseminated, 1% **Minor Interval:** 262.7 - 264.5 ARG, Argillite Black fine grained argillite begins to be pervasively altered with increasing quartz/carbonate and weak sulfide. Contact with next unit, siltstone is obscured by the fine blocky mature of the core. Possible fault zone? **Mineralization** 262.70 - 264.50 : PY Pyrite, Diss Disseminated, 2% 262.70 - 264.50 : PY Pyrite, Blb Blebs, 1% **Alteration** 262.70 - 264.50 :CA Carbonate, Pervasiv Pervasive, PEV Weak 262.70 - 264.50 :SI Silica, Pervasiv Pervasive, PEV Weak 262.70 - 264.50 :SR Sericite, Pervasiv Pervasive, PEV Weak								

Hole Number: **ESO-06-11A**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 264.5 - 267.3 SLTST, Siltstone This interval is a dark to medium gray fine grained siltstone. The rock is composed of fine amphibole in a matrix of finer amphibole and feldspathoid. The interval is mainly massive but minor finer interbeds of argillite suggest bedding fabric. Several fold noses are cut by the core. Bedding fabric suggests that bedding is at moderate angles (30-50*) to the core axis except in areas of fold noses where the bedding flattens. Alteration is lower to middle greenschist. Mineralization is weak but pervasive in most of the section. Background sulfides are increased. **Mineralization** 264.50 - 267.30 : ASP Arsenopyrite, Diss Disseminated, 0.01% 264.50 - 267.30 : PY Pyrite, Diss Disseminated, 2%								

DETAILED LOG

Hole Number: **ESO-06-11A**

Units: METRIC

Detailed Lithology

From	To	Lithology
267.30	326.56	**ARBIF, Argillitic Iron formation** Dark greenish gray with black (magnetite) and rare white (silica) bands. This unit consists of a black to dark green fine grained amphibole in a very fine matrix. Rare white siliceous bands and occasional black magnetite bands are present. The unit is variably, strongly in places, magnetic. Pyrite is located with or near weak diffuse magnaite bands. Sericitic alteration is present in the interval. Most of the mineralization is limited to weak zones of diffuse quartz/carbonate veining with varible sulfides. **RQD** 269.00 - 272.00 : 100.00 % RQD 100.00 % Core 3 m recovered 272.00 - 275.00 : 100.00 % RQD 100.00 % Core 3 m recovered 275.00 - 278.00 : 100.00 % RQD 100.00 % Core 3 m recovered 278.00 - 281.00 : 100.00 % RQD 100.00 % Core 3 m recovered 281.00 - 284.00 : 100.00 % RQD 100.00 % Core 3 m recovered 284.00 - 287.00 : 100.00 % RQD 100.00 % Core 3 m recovered 287.00 - 290.00 : 100.00 % RQD 100.00 % Core 3 m recovered 290.00 - 293.00 : 100.00 % RQD 100.00 % Core 3 m recovered 293.00 - 296.00 : 100.00 % RQD 100.00 % Core 3 m recovered 296.00 - 299.00 : 100.00 % RQD 100.00 % Core 3 m recovered 299.00 - 302.00 : 100.00 % RQD 100.00 % Core 3 m recovered 302.00 - 305.00 : 100.00 % RQD 100.00 % Core 3 m recovered 305.00 - 308.00 : 100.00 % RQD 100.00 % Core 3 m recovered 308.00 - 311.00 : 100.00 % RQD 100.00 % Core 3 m recovered 311.00 - 314.00 : 100.00 % RQD 100.00 % Core 3 m recovered 314.00 - 317.00 : 100.00 % RQD 100.00 % Core 3 m recovered 317.00 - 320.00 : 100.00 % RQD 100.00 % Core 3 m recovered 320.00 - 323.00 : 100.00 % RQD 100.00 % Core 3 m recovered

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
30070	267.30	268.00	0.70				
30071	268.00	269.00	1.00				
30072	276.00	277.47	1.47				
30073	277.47	278.47	1.00				
30074	278.47	280.03	1.56				
30076	287.00	288.52	1.52				
30077	288.52	289.52	1.00				
30078	289.52	290.52	1.00				
30079	290.52	292.00	1.48				
30080	292.00	293.00	1.00				
30081	293.00	294.00	1.00				
30082	294.00	295.00	1.00				
30083	295.00	296.50	1.50				
30084	296.50	298.00	1.50				
30086	302.60	304.10	1.50				
30087	304.10	305.38	1.28				
30088	305.38	306.67	1.29				
30089	306.67	307.47	0.80				
30090	307.47	308.14	0.67				
30091	308.14	309.03	0.89				
30092	309.03	310.35	1.32				
30093	310.35	311.00	0.65				
30094	311.00	312.00	1.00				
30096	312.00	313.00	1.00				
30097	313.00	314.00	1.00				
30098	314.00	315.00	1.00				
30099	324.00	325.50	1.50				
30100	325.50	326.56	1.06				

Hole Number: **ESO-06-11A**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		RQD 323.00 - 326.00 : 100.00 % RQD 100.00 % Core 3 m recovered 326.00 - 329.00 : 100.00 % RQD 100.00 % Core 3 m recovered **MINOR INTERVALS:** **Minor Interval:** 267.3 - 277.47 ARBIF, Argillitic iron formation Drak gray to black fine grained argillite. There are thin bands of magnetite with in the interval. Alteration is very weak. **Minor Interval:** 277.47 - 278.47 ARBIF, Argillitic iron formation Three diffuse quartz/carbonate/pyrite veins cut this interval. Sulfides are scattered thru the veining but concentrated at the wallrock contact. There is a fold nose at the top of the interval which coincides with the veining. **Mineralization** 277.47 - 278.47 : PY Pyrite, SS Stringers, 2% 277.47 - 278.47 : PY Pyrite, Diss Disseminated, 1% 277.47 - 278.47 : PY Pyrite, Blb Blebs, 1% **Alteration** 277.47 - 278.47 :CA Carbonate, FC Fracture Controlled, PEV Weak 277.47 - 278.47 :SI Silica, FC Fracture Controlled, PEV Weak **Minor Interval:** 278.47 - 288.52 ARBIF, Argillitic iron formation Dark greenish gray with black (magnetite). This unit consists of a black to dark green fine grained amphibole in a very fine matrix. Rare siltstone bands and occasional black magnetite bands are present. The unit is variably, strongly in places, magnetic. Most pyrite is located with or near weak diffuse sulfide bands. There is a fold nose near 284 . Quartz/carbonate veining is rare. **Minor Interval:** 288.52 - 295 SLTST, Siltstone Dark green to dark greenish gray fine grained siltstone. This interval is slightly coarser and has behaved more brittle / less ductile. Fine microveining in an orthogonal pattern is evident in several spots. This microveining appears dry but these areas have been sericitized pervasively. Several quartz/carbonate veins cut the core axis. Sulfides are associated with these veins, both in the veins and adjoining the veins in the wallrock. Total sulfide is low 3-4%. **Minor Interval:** 295 - 305.38 SLTST, Siltstone Dark green fine grained siltstone. This unit is more massive and less altered / veined.								

Hole Number: **ESO-06-11A**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 305.38 - 314 ARBIF, Argillitic iron formation Dark green fine grained siltstone. This unit is fairly massive but has distinct beds of white silica and black magnetite. The exhalitive beds are folded and are repetitive. The area around 307 is a fold nose with weak crackle breccia. The exhalitive beds behaved brittlely and have common ofsets of bedding. This folded area has several quartz/carbonate veins with generally weak but varible sulfides. **Minor Interval:** 314 - 325.5 ARBIF, Argillitic iron formation Black fine grained argillite with common variably magnetic lenses or beds. The darker beds usually are more magnetic. The unit begins to be pervasively altered with increasing sericite, quartz/carbonate, and weak sulfide near the bottom of the interval. **Minor Interval:** 325.5 - 326.56 ARBIF, Argillitic iron formation A fold nose between 325.5 and 326 conrols the emplacement of a quartz/carbonate vein with minor sulfide. The rock has a weak pervasive potassic alteration overprint.								

Aug 18, 2006

DETAILED LOG

Units: METRIC

Hole Number: **ESO-06-11A**

Detailed Lithology

From	To	Lithology
326.56	329.90	**CQV, Quartz-carbonate vein** White sugary textured quartz with common iron carbonate and sulfides. Off-white to tan whispy ankerite is common as is a amorphous green iron carbonate. Pyrite is the primary sulfide but arsenopyrite is also present in very limited amounts. **RQD** 329.00 - 332.00 : 100.00 % RQD 100.00 % Core 3 m recovered **MINOR INTERVALS:** **Minor Interval:** 326.56 - 328.75 CQV, Quartz-carbonate vein White sugary textured quartz with common iron carbonate and sulfides. Off-white to tan whispy ankerite is common as is a amorphous green iron carbonate. Pyrite is the primary sulfide but arsenopyrite is also present in very limited amounts. **Minor Interval:** 328.75 - 329.5 ARBIF, Argillitic iron formation **Mineralization** 328.75 - 329.50 : PY Pyrite, Diss Disseminated, 1% 328.75 - 329.50 : PY Pyrite, SS Stringers, 2% **Alteration** 328.75 - 329.50 :SR Sericite, Pervasiv Pervasive, PEV Weak 328.75 - 329.50 :SI Silica, Pervasiv Pervasive, PEV Weak 328.75 - 329.50 :CA Carbonate, Pervasiv Pervasive, MOD Moderate **Minor Interval:** 329.5 - 329.9 CQV, Quartz-carbonate vein White sugary textured quartz with common iron carbonate and sulfides. Off-white to tan whispy ankerite is common as is a amorphous green iron carbonate. Pyrite is the primary sulfide but arsenopyrite is also present in very limited amounts. **Mineralization** 329.50 - 329.90 : ASP Arsenopyrite, Diss Disseminated, 0.1% 329.50 - 329.90 : PY Pyrite, Blb Blebs, 2% 329.50 - 329.90 : PY Pyrite, Diss Disseminated, 2% 329.50 - 329.90 : PY Pyrite, SS Stringers, 2% 329.50 - 329.90 : PY Pyrite, Pat Patches, 2%

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
30101	326.56	327.21	0.65				
30102	327.21	328.00	0.79				
30103	328.00	328.75	0.75				
30104	328.75	329.50	0.75				
30106	329.50	330.90	1.40				

Hole Number: **ESO-06-11A**

Units: METRIC

Detailed Lithology

From	To	Lithology
329.90	350.00	**ARBIF, Argillitic iron formation** Dark gray to dark greenish gray with occasional black (magnetite) bands. This unit consists of a black to dark green fine grained amphibole in a very fine matrix. Rare siltstone bands, occasional black magnetite bands, and fine grained white to light green silica are present. The unit is variably, strongly in places, magnetic. Thin quartz/carbonate veining is common. Several thin zones of intense microveining and pervasive sericitic alteration were recognized. **Mineralization** 329.90 - 350.00 : ASP Arsenopyrite, Diss Disseminated, 0.01% 329.90 - 350.00 : PY Pyrite, Diss Disseminated, 1% 329.90 - 350.00 : PY Pyrite, Blb Blebs, 1% 329.90 - 350.00 : PY Pyrite, SS Stringers, 1% **Alteration** 329.90 - 350.00 :CA Carbonate, FC Fracture Controlled, PEV Weak 329.90 - 350.00 :SR Sericite, Pervasiv Pervasive, PEV Weak 329.90 - 350.00 :SI Silica, Pervasiv Pervasive, PEV Weak **RQD** 332.00 - 335.00 : 100.00 % RQD 100.00 % Core 3 m recovered 335.00 - 338.00 : 100.00 % RQD 100.00 % Core 3 m recovered 338.00 - 341.00 : 100.00 % RQD 100.00 % Core 3 m recovered 341.00 - 344.00 : 100.00 % RQD 100.00 % Core 3 m recovered 344.00 - 347.00 : 100.00 % RQD 100.00 % Core 3 m recovered 347.00 - 350.00 : 100.00 % RQD 100.00 % Core 3 m recovered **MINOR INTERVALS:** **Minor Interval:** 329.9 - 335 ARBIF, Argillitic iron formation Dark gray to dark greenish gray with occasional black (magnetite) bands. This unit consists of a black to dark green fine grained amphibole in a very fine matrix. Rare siltstone bands, occasional black magnetite bands, and fine grained white to light green silica are present. The unit is variably, strongly in places, magnetic. Thin quartz/carbonate veining is common. Several thin zones of intense microveining and pervasive sericitic alteration were recognized.

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
30107	330.90	332.00	1.10				
30108	332.00	333.25	1.25				
30109	333.25	334.50	1.25				
30110	334.50	336.00	1.50				
30111	343.00	344.00	1.00				
30112	344.00	345.00	1.00				
30113	345.00	346.00	1.00				
30114	346.00	347.00	1.00				
30116	347.00	348.00	1.00				
30117	348.00	349.00	1.00				
30118	349.00	350.00	1.00				

Hole Number: **ESO-06-11A**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 335 - 343.5 ARBIF, Argillitic iron formation Dark gray to dark greenish gray with occasional black (magnetite) bands. This unit consists of a black to dark green fine grained amphibole in a very fine matrix. Rare siltstone bands, occasional black magnetite bands, and fine grained white to light green silica are present. The unit is variably, strongly in places, magnetic. **Minor Interval:** 343.5 - 350 ARBIF, Argillitic iron formation Dark gray to dark greenish gray with occasional black (magnetite) bands. This unit consists of green fine grained amphibole in a very fine matrix. Rare siltstone bands, occasional black magnetite bands, and fine grained white to light green silica are present. The unit is variably, strongly in places, magnetic. Quartz/carbonate veining with pyrite is common. **Mineralization** 343.50 - 350.00 : PY Pyrite, Diss Disseminated, 1% 343.50 - 350.00 : PY Pyrite, Blb Blebs, 1% 343.50 - 350.00 : PY Pyrite, SS Stringers, 2% 343.50 - 350.00 : ASP Arsenopyrite, Diss Disseminated, 0.01% rare very fine crystals **Alteration** 343.50 - 350.00 :CA Carbonate, FC Fracture Controlled, MOD Moderate 343.50 - 350.00 :SI Silica, FC Fracture Controlled, PEV Weak								

Samples

Sample Number	From	To	Au gpt	Ag ppm	Zn ppm	Cu ppm
Sample Type **ASSAY**						
30059	254.35	255.85				
30060	255.85	256.77				
30061	256.77	258.23				
30062	259.70	261.20				
30063	261.20	261.94				
30064	261.94	262.70				
30066	262.70	264.00				
30067	264.00	265.00				
30068	265.00	266.00				
30069	266.00	267.30				
30070	267.30	268.00				
30071	268.00	269.00				
30072	276.00	277.47				
30073	277.47	278.47				
30074	278.47	280.03				

Hole Number: **ESO-06-11A**

Units: METRIC

Samples

Sample Number	From	To	Au gpt	Ag ppm	Zn ppm	Cu ppm
Sample Type **ASSAY**						
30076	287.00	288.52				
30077	288.52	289.52				
30078	289.52	290.52				
30079	290.52	292.00				
30080	292.00	293.00				
30081	293.00	294.00				
30082	294.00	295.00				
30083	295.00	296.50				
30084	296.50	298.00				
30086	302.60	304.10				
30087	304.10	305.38				
30088	305.38	306.67				
30089	306.67	307.47				
30090	307.47	308.14				
30091	308.14	309.03				
30092	309.03	310.35				
30093	310.35	311.00				
30094	311.00	312.00				
30096	312.00	313.00				
30097	313.00	314.00				
30098	314.00	315.00				
30099	324.00	325.50				
30100	325.50	326.56				
30101	326.56	327.21				
30102	327.21	328.00				
30103	328.00	328.75				
30104	328.75	329.50				
30106	329.50	330.90				
30107	330.90	332.00				
30108	332.00	333.25				
30109	333.25	334.50				
30110	334.50	336.00				
30111	343.00	344.00				
30112	344.00	345.00				
30113	345.00	346.00				
30114	346.00	347.00				
30116	347.00	348.00				
30117	348.00	349.00				

Hole Number: **ESO-06-11A**

Units: METRIC

Samples

Sample Number	From	To	Au gpt	Ag ppm	Zn ppm	Cu ppm
Sample Type **ASSAY**						
30118	349.00	350.00				

DETAILED LOG

Hole Number: **ESO-06-12**

Units: METRIC

Project Name:	Mikwam	Primary Coordinates	Grid: UTM:	Destination Coordinates	Grid: LOCAL:	Collar Dip:	-70.00
Project Number:	ESO06-MK	North:	5483004.00	North:		Collar Az:	180.00
Location:	Surface	East:	592373.00	East:		Length:	602.00
		Elev:	272.20	Elev:		Start Depth:	0.00
Date Started:	May 19, 2006	Collar Survey: N	Plugged: N	Contractor:	Heath and Sherwood Drilling Inc.	Final Depth:	602.00
Date Completed:	May 28, 2006	Multishot Survey: N	Hole Size: BQ	Core Storage:	Mine Site		
		Pulse EM Survey: N	Casing: Left in Hole				

Comments:

Sample Averages

Survey Data

Depth	Azimuth Decimal	Dip Decimal	Test Type	Flag	Comments	Depth	Azimuth Decimal	Dip Decimal	Test Type	Flag	Comments
54.00	189.80	-70.90	ES	OK	roll 327.7 mag field 5859 temp 10.9	**102.00**	188.10	-71.40	ES	OK	roll 138.9 mag field 6017 temp 13.6
204.00	189.60	-71.10	ES	OK	roll 97.4 mag field 5887 temp 13.5	**300.00**	193.20	-70.20	ES	OK	roll 99.4 mag field 5873 temp 14.9
400.00	191.20	-68.10	ES	OK	roll 62.2 mag field 6772 temp 12.4	**500.00**	197.10	-65.20	ES	OK	roll 210.8 mag field 5657 temp 13.0
602.00	208.50	-59.90	ES	OK	roll 112.0 mag field 5605 temp 15.1						

Detailed Lithology

From	To	Lithology
0	41.00	**OB, Overburden** cased to 42.5 overburden not retained **RQD** 39.00 - 42.00 : 100.00 % RQD 14.00 % Core 42 cm recovered

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm

Hole Number: **ESO-06-12**

Units: METRIC

Detailed Lithology

From	To	Lithology
41.00	74.00	**ARG, Argillite** Sooty black to dark gray to light gray fine grained argillite. The rock is composed primarily of fine grained quartz grains in a finer grained amphibole and sericite matrix. There are common thin siltstone interbeds..The unit is thinly bedded and cuts at 40* to 45* degrees from the core axis except in folded areas where bedding flattens and is parallel to core axis. The bedding shows commom soft sediment defirmation and at least 2 directions of fabric orientation. The rock is nonmagnetic.The rock has been pervasively altered, intensly in some zones. Sericite is common in some zones. Silicification and pyritization are moderate to strong in some zones. Mineralization appears as sericitization, silicification, weak quartz/carbonate veining. Pyrite apppears in the stronger silicified zones. Mineralization details are in the minors. **RQD** 42.00 - 45.00 : 100.00 % RQD 73.00 % Core 2.20 m recovered 45.00 - 48.00 : 100.00 % RQD 90.00 % Core 2.70 m recovered 48.00 - 51.00 : 100.00 % RQD 80.00 % Core 2.40 m recovered 51.00 - 54.00 : 100.00 % RQD 100.00 % Core 3 m recovered 54.00 - 57.00 : 100.00 % RQD 97.00 % Core 2.90 m recovered 57.00 - 60.00 : 100.00 % RQD 97.00 % Core 2.90 m recovered 60.00 - 63.00 : 100.00 % RQD 90.00 % Core 2.70 m recovered 63.00 - 66.00 : 100.00 % RQD 100.00 % Core 3 m recovered 66.00 - 69.00 : 100.00 % RQD 100.00 % Core 3 m recovered 69.00 - 72.00 : 100.00 % RQD 92.00 % Core 2.75 m recovered 72.00 - 75.00 : 100.00 % RQD 90.00 % Core 2.70 m recovered

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
30119	41.00	42.00	1.00				
30120	42.00	43.50	1.50				
30121	43.50	45.00	1.50				
30122	45.00	46.00	1.00				
30123	46.00	47.00	1.00				
30124	47.00	48.00	1.00				
30126	48.00	49.00	1.00				
30127	49.00	50.00	1.00				
30128	50.00	51.00	1.00				
30129	51.00	52.00	1.00				
30130	52.00	52.87	0.87				
30131	52.87	54.00	1.13				
30132	54.00	55.00	1.00				
30133	55.00	55.64	0.64				
30134	55.64	56.00	0.36				
30136	56.00	57.00	1.00				
30137	57.00	57.79	0.79				
30138	57.79	59.05	1.26				
30139	59.05	60.00	0.95				
30140	60.00	60.63	0.63				
30141	60.63	61.43	0.80				
30142	61.43	61.76	0.33				
30143	61.76	62.75	0.99				
30144	62.75	64.00	1.25				
30146	64.00	64.87	0.87				
30147	64.87	66.00	1.13				
30148	66.00	67.06	1.06				
30149	67.06	68.00	0.94				
30150	68.00	69.00	1.00				
30151	69.00	70.00	1.00				
30152	70.00	71.00	1.00				
30153	71.00	72.00	1.00				
30154	72.00	73.00	1.00				
30156	73.00	74.00	1.00				

Hole Number: **ESO-06-12**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 41 - 44 ARG, Argillite This interval has been strongly sericitized and has common black microveining along stress shearing that cuts nearly perpendicular to the core. Poor recovery and blocky nature obscure the contacts and prevent accurate measurements. **Mineralization** 41.00 - 44.00 : ASP Arsenopyrite, Diss Disseminated, 0.1% 41.00 - 44.00 : PY Pyrite, Diss Disseminated, 1% 41.00 - 44.00 : PY Pyrite, Blb Blebs, 1% 41.00 - 44.00 : PY Pyrite, SS Stringers, 2% **Alteration** 41.00 - 44.00 :SI Silica, Pervasiv Pervasive, MOD Moderate 41.00 - 44.00 :S Sulphide, Pervasiv Pervasive, MOD Moderate 41.00 - 44.00 :SR Sericite, Pervasiv Pervasive, STG Strong **Minor Interval:** 44 - 47 ARG, Argillite Blacker, less sericitized argillite. **Mineralization** 44.00 - 47.00 : PY Pyrite, Blb Blebs, 1% 44.00 - 47.00 : PY Pyrite, Diss Disseminated, 1% 44.00 - 47.00 : PY Pyrite, SS Stringers, 1% **Alteration** 44.00 - 47.00 :SR Sericite, Pervasiv Pervasive, MOD Moderate 44.00 - 47.00 :SI Silica, Pervasiv Pervasive, PEV Weak 44.00 - 47.00 :S Sulphide, Pervasiv Pervasive, PEV Weak **Minor Interval:** 47 - 52.82 SLTST, Siltstone Light gray to darker greenish gray fine grained siltstone. This unit is more massive. It has been strongly sericitized but only weakly silicified and pyritized. Several 10-15 cm intervals of black microveining indicate high stress areas. **Mineralization** 47.00 - 52.82 : PY Pyrite, Blb Blebs, 1% 47.00 - 52.82 : PY Pyrite, Diss Disseminated, 1% 47.00 - 52.82 : PY Pyrite, SS Stringers, 1% **Alteration** 47.00 - 52.82 :SR Sericite, Pervasiv Pervasive, STG Strong 47.00 - 52.82 :SI Silica, Pervasiv Pervasive, PEV Weak 47.00 - 52.82 :S Sulphide, Pervasiv Pervasive, PEV Weak								

Hole Number: **ESO-06-12**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 52.82 - 55.64 ARG, Argillite Sooty black to dark gray fine grained argillite. The rock is composed primarily of fine grained quartz grains in a finer grained amphibole and sericite matrix. The unit is thinly bedded and cuts at 40* to 45* degrees from the core axis except in folded areas where bedding flattens and is parallel to core axis. The bedding shows commom soft sediment defirmation and at least 2 directions of fabric orientation. The rock is nonmagnetic.The rock has been pervasively altered. Pyritization is moderate to strong in some narrow intervals. Mineralization appears as pyritization with weak sericitization, silicification, weak quartz/carbonate veining. The rock has a slightly bleached appearance and zones of sugary texture. **Mineralization** 52.82 - 55.64 : PY Pyrite, Blb Blebs, 2% 52.82 - 55.64 : PY Pyrite, Diss Disseminated, 1% 52.82 - 55.64 : PY Pyrite, SS Stringers, 2% **Alteration** 52.82 - 55.64 :SR Sericite, Pervasiv Pervasive, PEV Weak 52.82 - 55.64 :SI Silica, Pervasiv Pervasive, PEV Weak 52.82 - 55.64 :S Sulphide, Pervasiv Pervasive, PEV Weak **Minor Interval:** 55.64 - 57 SLTST, Siltstone Dark green fine grained massive siltstone. Fairly massive. The rock has a slightly bleached appearance and zones of sugary texture. **Mineralization** 55.64 - 57.00 : PY Pyrite, Diss Disseminated, 1% 55.64 - 57.00 : PY Pyrite, Blb Blebs, 1% **Alteration** 55.64 - 57.00 :SR Sericite, Pervasiv Pervasive, PEV Weak 55.64 - 57.00 :SI Silica, Pervasiv Pervasive, PEV Weak 55.64 - 57.00 :S Sulphide, Pervasiv Pervasive, PEV Weak **Minor Interval:** 57 - 59.05 ARG, Argillite Sooty black to dark gray fine grained argillite. The rock is composed primarily of fine grained quartz grains in a finer grained amphibole and sericite matrix. The unit is thinly bedded and cuts at 40* to 45* degrees from the core axis except in folded areas where bedding flattens and is parallel to core axis. The bedding shows commom soft sediment defirmation and at least 2 directions of fabric orientation. The rock is nonmagnetic.The rock has been pervasively altered. Pyritization is moderate to strong in some narrow intervals. Mineralization appears as pyritization with weak sericitization, silicification, and weak quartz/carbonate veining.								

Hole Number: **ESO-06-12**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 59.05 - 64.87 ARG, Argillite Increasing alteration nearly overprints argillic bedding. Dark gray to light gray fine grained argillite. The rock is composed primarily of fine grained quartz grains in a finer grained amphibole and sericite matrix. The unit is thinly bedded and cuts at 40* to 45* degrees from the core axis except in folded areas where bedding flattens and is parallel to core axis. The bedding shows commom soft sediment defirmation and at least 2 directions of fabric orientation. The rock is nonmagnetic.The rock has been intensly pervasively altered. Sericite is common. Silicification and pyritization are moderate to strong. Mineralization appears as sericitization, silicification, pyritization and weak quartz/carbonate veining. Some ankerite / green Fe carbonate bands were noticed. **Mineralization** 59.05 - 64.87 : PY Pyrite, Blb Blebs, 3% 59.05 - 64.87 : PY Pyrite, Diss Disseminated, 2% 59.05 - 64.87 : PY Pyrite, SS Stringers, 3% **Alteration** 59.05 - 64.87 :SR Sericite, Pervasiv Pervasive, STG Strong 59.05 - 64.87 :SI Silica, Pervasiv Pervasive, MOD Moderate 59.05 - 64.87 :S Sulphide, Pervasiv Pervasive, STG Strong 59.05 - 64.87 :CA Carbonate, FC Fracture Controlled, PEV Weak minor qtz/co3 veining								

Hole Number: **ESO-06-12**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 64.87 - 67.06 ARG, Argillite Sooty black to dark gray fine grained argillite. The rock is composed primarily of fine grained quartz grains in a finer grained amphibole and sericite matrix. The unit is thinly bedded and cuts at 40* to 45* degrees from the core axis except in folded areas where bedding flattens and is parallel to core axis. The bedding shows commom soft sediment defirmation and at least 2 directions of fabric orientation. The rock is nonmagnetic.The rock has been pervasively altered. Pyritization is moderate to strong in some narrow intervals. Mineralization appears as pyritization with weak sericitization, silicification, and weak quartz/carbonate veining. **Mineralization** 64.87 - 67.06 : ASP Arsenopyrite, Diss Disseminated, 0.1% some very fine grained AsPy mixed with pyrite 64.87 - 67.06 : PY Pyrite, Blb Blebs, 3% 64.87 - 67.06 : PY Pyrite, Diss Disseminated, 2% 64.87 - 67.06 : PY Pyrite, SS Stringers, 3% **Alteration** 64.87 - 67.06 :CA Carbonate, FC Fracture Controlled, PEV Weak 64.87 - 67.06 :CA Carbonate, Pervasiv Pervasive, MOD Moderate 64.87 - 67.06 :SI Silica, Pervasiv Pervasive, MOD Moderate 64.87 - 67.06 :SR Sericite, Pervasiv Pervasive, PEV Weak 64.87 - 67.06 :S Sulphide, Pervasiv Pervasive, MOD Moderate								

Hole Number: **ESO-06-12**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 67.06 - 69 ARG, Argillite Increasing alteration nearly overprints argillic bedding. Dark gray to light gray fine grained argillite. The rock is composed primarily of fine grained quartz grains in a finer grained amphibole and sericite matrix. The unit is thinly bedded and cuts at 40* to 45* degrees from the core axis except in folded areas where bedding flattens and is parallel to core axis. The bedding shows commom soft sediment defirmation and at least 2 directions of fabric orientation. The rock is nonmagnetic.The rock has been intensly pervasively altered. Sericite is common. Silicification and pyritization are moderate to strong. Mineralization appears as sericitization, silicification, pyritization and weak quartz/carbonate veining. Ankerite / green Fe carbonate bands were noticed. **Mineralization** 67.06 - 69.00 : ASP Arsenopyrite, Diss Disseminated, 0.1% 67.06 - 69.00 : PY Pyrite, Blb Blebs, 3% 67.06 - 69.00 : PY Pyrite, Diss Disseminated, 2% 67.06 - 69.00 : PY Pyrite, SS Stringers, 3% 67.06 - 69.00 : PY Pyrite, Perv Pervasive, 3% **Alteration** 67.06 - 69.00 :CA Carbonate, Pervasiv Pervasive, PEV Weak 67.06 - 69.00 :SI Silica, Pervasiv Pervasive, STG Strong 67.06 - 69.00 :SR Sericite, Pervasiv Pervasive, STG Strong 67.06 - 69.00 :S Sulphide, Pervasiv Pervasive, MOD Moderate **Minor Interval:** 69 - 71.02 ARG, Argillite Dark gray fine grained argillite. The rock is composed primarily of fine grained quartz grains in a finer grained amphibole and sericite matrix. The unit is thinly bedded and cuts at 40* to 45* degrees from the core axis except in folded areas where bedding flattens and is parallel to core axis. The bedding shows commom soft sediment defirmation and at least 2 directions of fabric orientation. The rock is nonmagnetic.The rock has been pervasively altered. Pyritization is moderate to strong in some narrow intervals. Mineralization appears as pyritization with sericitization, silicification, and weak quartz/carbonate veining. A penetrating shear fabric cuts nearly perpendicular to the core at several spots in this interval. It is marked by black microveining. **Alteration** 69.00 - 71.02 :CA Carbonate, Pervasiv Pervasive, PEV Weak 69.00 - 71.02 :SR Sericite, Pervasiv Pervasive, PEV Weak 69.00 - 71.02 :SI Silica, Pervasiv Pervasive, MOD Moderate 69.00 - 71.02 :S Sulphide, Pervasiv Pervasive, MOD Moderate								

Hole Number: **ESO-06-12**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 71.02 - 74 ARG, Argillite Sooty black to dark gray fine grained argillite. The rock is composed primarily of fine grained quartz grains in a finer grained amphibole and sericite matrix. The unit is thinly bedded and cuts at 40* to 45* degrees from the core axis except in folded areas where bedding flattens and is parallel to core axis. The bedding shows commom soft sediment defirmation and at least 2 directions of fabric orientation. The rock is nonmagnetic.The rock has been pervasively altered. Pyritization is moderate in some narrow bands. Mineralization appears as pyritization with weak sericitization, silicification, and weak quartz/carbonate veining.								

Hole Number: **ESO-06-12**

Units: METRIC

Detailed Lithology

From	To	Lithology
74.00	88.80	**SLTST, Siltstone** This interval is a dark to medium gray fine grained siltstone. The rock is composed of fine amphibole in a matrix of finer amphibole and feldspathoid. The interval is mainly massive but minor finer interbeds of argillite suggest bedding fabric. Several fold noses are cut by the core. Bedding fabric suggests that bedding is at moderate angles (30-50*) to the core axis except in areas of fold noses where the bedding flattens. Alteration is lower to middle greenschist.The rock has been intensly pervasively altered. Sericite is common. Silicification and pyritization are moderate to strong. Mineralization appears as sericitization, silicification, pyritization and weak quartz/carbonate veining. Some ankerite / green Fe carbonate bands were noticed. Zones of mineralization are included in the minors. **RQD** 75.00 - 78.00 : 100.00 % RQD 93.00 % Core 2.80 m recovered 78.00 - 81.00 : 100.00 % RQD 92.00 % Core 2.75 m recovered 81.00 - 84.00 : 100.00 % RQD 100.00 % Core 3 m recovered 84.00 - 87.00 : 100.00 % RQD 100.00 % Core 3 m recovered 87.00 - 90.00 : 100.00 % RQD 100.00 % Core 3 m recovered **MINOR INTERVALS:** **Minor Interval:** 74 - 77 SLTST, Siltstone This interval is a dark to medium gray fine grained siltstone. The rock has been intensly pervasively altered. Sericite is common. Silicification and pyritization are moderate . Mineralization appears as sericitization, silicification, pyritization and weak quartz/carbonate veining. Some ankerite / green Fe carbonate bands were noticed. **Mineralization** 74.00 - 77.00 : PY Pyrite, Blb Blebs, 1% 74.00 - 77.00 : PY Pyrite, Diss Disseminated, 1% 74.00 - 77.00 : PY Pyrite, SS Stringers, 1% 74.00 - 77.00 **Alteration** 74.00 - 77.00 :CA Carbonate, FC Fracture Controlled, PEV Weak 74.00 - 77.00 :SR Sericite, Pervasiv Pervasive, MOD Moderate 74.00 - 77.00 :SI Silica, Pervasiv Pervasive, PEV Weak 74.00 - 77.00 :S Sulphide, Pervasiv Pervasive, PEV Weak

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
30157	74.00	75.00	1.00				
30158	75.00	76.00	1.00				
30159	76.00	77.00	1.00				
30160	77.00	78.00	1.00				
30161	78.00	79.00	1.00				
30162	79.00	80.00	1.00				
30163	80.00	81.00	1.00				
30164	81.00	82.00	1.00				
30166	82.00	83.00	1.00				
30167	83.00	84.00	1.00				
30168	84.00	85.00	1.00				
30169	85.00	86.00	1.00				
30170	86.00	87.00	1.00				
30171	87.00	88.00	1.00				
30172	88.00	89.00	1.00				

Hole Number: **ESO-06-12**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 77 - 79 SLTST, Siltstone This interval is a dark to medium gray fine grained siltstone. The rock has been intensly pervasively altered. Sericite is common. Silicification and pyritization are moderate . Mineralization appears as sericitization, silicification, pyritization and weak quartz/carbonate veining. Some ankerite / green Fe carbonate bands were noticed. **Mineralization** 77.00 - 79.00 : PY Pyrite, Blb Blebs, 2% 77.00 - 79.00 : PY Pyrite, Diss Disseminated, 1% 77.00 - 79.00 : PY Pyrite, SS Stringers, 2% 77.00 - 79.00 : ASP Arsenopyrite, Diss Disseminated, 0.01% suspected very fine grained AsPy **Alteration** 77.00 - 79.00 :CA Carbonate, FC Fracture Controlled, MOD Moderate 77.00 - 79.00 :SR Sericite, Pervasiv Pervasive, MOD Moderate 77.00 - 79.00 :SI Silica, Pervasiv Pervasive, MOD Moderate 77.00 - 79.00 :S Sulphide, Pervasiv Pervasive, PEV Weak **Minor Interval:** 79 - 84.3 SLTST, Siltstone This interval is a dark to medium gray fine grained siltstone. The rock has been intensly pervasively altered. Sericite is common. Silicification and pyritization are moderate . Mineralization appears as sericitization, silicification, pyritization and weak quartz/carbonate veining. Some ankerite / green Fe carbonate bands were noticed. This interval has been strongly folded with 3 fold noses. Bedding is very disrupted. Sulfide is very patchy. **Mineralization** 79.00 - 84.30 : PY Pyrite, Blb Blebs, 2% 79.00 - 84.30 : PY Pyrite, Pat Patches, 3% 79.00 - 84.30 : PY Pyrite, Diss Disseminated, 1% 79.00 - 84.30 : PY Pyrite, SS Stringers, 2% **Alteration** 79.00 - 84.30 :CA Carbonate, FC Fracture Controlled, PEV Weak 79.00 - 84.30 :CA Carbonate, Pervasiv Pervasive, PEV Weak 79.00 - 84.30 :SI Silica, Pervasiv Pervasive, MOD Moderate 79.00 - 84.30 :SR Sericite, Pervasiv Pervasive, MOD Moderate 79.00 - 84.30 :S Sulphide, Pervasiv Pervasive, PEV Weak							

Hole Number: **ESO-06-12**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 84.3 - 88.8 ARG, Argillite Interbedded argillites and siltstones. Mineralization is fading. The interval is slightly sanded and bleached. A weak penetrating shear fabric cuts nearly perpendicular to the core at several spots in this interval. It is marked by black microveining. **Alteration** 84.30 - 88.80 :CA Carbonate, Pervasiv Pervasive, PEV Weak 84.30 - 88.80 :SI Silica, Pervasiv Pervasive, PEV Weak 84.30 - 88.80 :SR Sericite, Pervasiv Pervasive, MOD Moderate 84.30 - 88.80 :S Sulphide, Pervasiv Pervasive, PEV Weak								

Hole Number: **ESO-06-12**

Units: METRIC

Detailed Lithology

From	To	Lithology
88.80	99.20	**ARG, Argillite** Sooty black to dark gray to light gray fine grained argillite. The rock is composed primarily of fine grained quartz grains in a finer grained amphibole and sericite matrix. There are common thin siltstone interbeds..The unit is thinly bedded and cuts at 40* to 45* degrees from the core axis except in folded areas where bedding flattens and is parallel to core axis. About 91.2 the bedding bends over to 10* to parallel to the core axis. It maintains the near parallel to the core axis orientation past 105. The zone is marked by several quartz/carbonate veins, blocky/brecciated rock, and poor core recovery. The rock is nonmagnetic.The rock has been pervasively altered, modeately in some zones. Sericite is common in some zones. Silicification and pyritization are moderate to strong in some zones. Mineralization appears as sericitization, silicification, weak quartz/carbonate veining. Pyrite apppears in the stronger silicified zones. Mineralization details are in the minors.About 91.2 the bedding bends over to 10* to parallel to the core axis. It maintains the near parallel to the core axis orientation past 105. The zone is marked by several quartz/carbonate veins, blocky/brecciated rock, and poor core recovery **Mineralization** 88.80 - 99.20 : PY Pyrite, Diss Disseminated, 0.5% 88.80 - 99.20 : PY Pyrite, Blb Blebs, 1% 88.80 - 99.20 : PY Pyrite, SS Stringers, 1% **Alteration** 88.80 - 99.20 :CA Carbonate, FC Fracture Controlled, PEV Weak 88.80 - 99.20 :SI Silica, Pervasiv Pervasive, PEV Weak 88.80 - 99.20 :SR Sericite, Pervasiv Pervasive, PEV Weak 88.80 - 99.20 :S Sulphide, FC Fracture Controlled, PEV Weak **RQD** 90.00 - 93.00 : 100.00 % RQD 100.00 % Core 3 m recovered 93.00 - 96.00 : 100.00 % RQD 91.00 % Core 2.70 m recovered 96.00 - 99.00 : 100.00 % RQD 87.00 % Core 2.60 m recovered 99.00 - 102.00 : 100.00 % RQD 100.00 % Core 3 m recovered

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
30173	89.00	90.00	1.00				
30174	90.00	91.50	1.50				
30176	91.50	93.00	1.50				
30177	93.00	94.00	1.00				
30178	94.00	94.40	0.40				
30179	94.40	94.80	0.40				
30180	94.80	96.00	1.20				
30181	96.00	97.00	1.00				
30182	97.00	98.00	1.00				
30183	98.00	99.00	1.00				

Hole Number: **ESO-06-12**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 88.8 - 91.2 ARG, Argillite Sooty black to dark gray to light gray fine grained argillite. The rock is composed primarily of fine grained quartz grains in a finer grained amphibole and sericite matrix. The unit is thinly bedded and cuts at 40* to 45* degrees from the core axis except in folded areas where bedding flattens and is parallel to core axis. The rock has been pervasively altered, moderately in some zones. Silicification and pyritization are weak in same zones. **Mineralization** 88.80 - 91.20 : PY Pyrite, Blb Blebs, 1% 88.80 - 91.20 : PY Pyrite, Diss Disseminated, 0.5% 88.80 - 91.20 : PY Pyrite, SS Stringers, 1% **Alteration** 88.80 - 91.20 :CA Carbonate, FC Fracture Controlled, MOD Moderate 88.80 - 91.20 :SR Sericite, Pervasiv Pervasive, PEV Weak 88.80 - 91.20 :SI Silica, Pervasiv Pervasive, PEV Weak 88.80 - 91.20 :S Sulphide, Pervasiv Pervasive, PEV Weak **Minor Interval:** 91.2 - 94 ARG, Argillite Sooty black to dark gray to light gray fine grained argillite. The rock is composed primarily of fine grained quartz grains in a finer grained amphibole and sericite matrix. The unit is thinly bedded, flattens, and is parallel to core axis. The rock has been weakly pervasively altered. Silicification and pyritization are weak. **Mineralization** 91.20 - 94.00 : PY Pyrite, Blb Blebs, 1% 91.20 - 94.00 : PY Pyrite, Clst Clasts, 0.5% **Minor Interval:** 94 - 94.4 CQV, Quartz-carbonate vein White sugary textured quartz with common iron carbonate and sulfides. Off-white to tan whispy ankerite is common as is a amorphous green iron carbonate. Pyrite is the primary sulfide but arsenopyrite is also present in very limited amounts. **Mineralization** 94.00 - 94.40 : PY Pyrite, Blb Blebs, 2% 94.00 - 94.40 : PY Pyrite, Diss Disseminated, 2% 94.00 - 94.40 : PY Pyrite, SS Stringers, 3% 94.00 - 94.40 : ASP Arsenopyrite, Diss Disseminated, 0.1% **Minor Interval:** 94.4 - 97 ARG, Argillite Interval with poor recovery. Blocky fragments suggest one or more quartz/carbonate veins. **Minor Interval:** 97 - 99.2 ARG, Argillite								

Hole Number: **ESO-06-12**

Units: METRIC

Detailed Lithology

From	To	Lithology
99.20	250.62	**SLTST, Siltstone** This interval is a dark to medium gray fine grained siltstone. The rock is composed of fine amphibole in a matrix of finer amphibole and feldspathoid. The interval is mainly massive but minor finer interbeds of argillite suggest bedding fabric. Several fold noses are cut by the core. Bedding fabric suggests that bedding is at moderate angles (30-50*) to the core axis except in areas of fold noses where the bedding flattens. Alteration is lower to middle greenschist.The rock has been weakly pervasively altered in spots. **RQD** 102.00 - 105.00 : 100.00 % RQD 93.00 % Core 2.80 m recovered8 105.00 - 108.00 : 100.00 % RQD 100.00 % Core 3 m recovered 108.00 - 111.00 : 100.00 % RQD 100.00 % Core 3 m recovered 111.00 - 114.00 : 100.00 % RQD 100.00 % Core 3 m recovered 114.00 - 117.00 : 100.00 % RQD 100.00 % Core 3 m recovered 117.00 - 120.00 : 100.00 % RQD 100.00 % Core 3 m recovered 120.00 - 123.00 : 100.00 % RQD 100.00 % Core 3 m recovered 123.00 - 126.00 : 100.00 % RQD 100.00 % Core 3 m recovered 126.00 - 129.00 : 100.00 % RQD 100.00 % Core 3 m recovered 129.00 - 132.00 : 100.00 % RQD 100.00 % Core 3 m recovered 132.00 - 135.00 : 100.00 % RQD 100.00 % Core 3 m recovered 135.00 - 138.00 : 100.00 % RQD 100.00 % Core 3 m recovered 138.00 - 141.00 : 100.00 % RQD 100.00 % Core 3 m recovered 141.00 - 144.00 : 100.00 % RQD 100.00 % Core 3 m recovered 144.00 - 147.00 : 100.00 % RQD 100.00 % Core 3 m recovered 147.00 - 150.00 : 100.00 % RQD 100.00 % Core 3 m recovered 150.00 - 153.00 : 100.00 % RQD 100.00 % Core 3 m recovered 153.00 - 156.00 : 100.00 % RQD 100.00 % Core 3 m recovered

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
30184	189.00	190.50	1.50				
30186	190.50	192.00	1.50				
30187	192.00	193.00	1.00				
30188	193.00	194.00	1.00				
30189	194.00	195.00	1.00				
30190	195.00	195.62	0.62				
30191	195.62	196.00	0.38				
30192	196.00	197.00	1.00				
30193	197.00	198.00	1.00				
30194	198.00	199.00	1.00				
30196	199.00	199.63	0.63				
30197	199.63	200.30	0.67				
30198	200.30	201.10	0.80				
30199	201.10	202.45	1.35				
30200	202.45	202.70	0.25				
30201	202.70	203.92	1.22				
30202	203.92	204.30	0.38				
30203	204.30	205.10	0.80				
30204	205.10	205.87	0.77				
30206	205.87	206.97	1.10				
30207	206.97	208.00	1.03				
30208	208.00	209.10	1.10				
30209	209.10	210.45	1.35				
30210	210.45	211.62	1.17				
30211	211.62	212.78	1.16				
30212	212.78	213.66	0.88				
30213	213.66	214.64	0.98				
30214	214.64	215.10	0.46				
30216	215.10	216.00	0.90				
30217	216.00	217.00	1.00				
30218	217.00	218.00	1.00				
30219	218.00	219.00	1.00				
30220	219.00	220.50	1.50				
30221	247.50	249.00	1.50				
30222	249.00	250.00	1.00				
30223	250.00	250.62	0.62				

Hole Number: **ESO-06-12**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		RQD								
		156.00 - 159.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		159.00 - 162.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		162.00 - 165.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		165.00 - 168.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		168.00 - 171.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		171.00 - 174.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		174.00 - 177.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		177.00 - 180.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		180.00 - 183.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		183.00 - 186.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		186.00 - 189.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		189.00 - 192.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		192.00 - 195.00 : 100.00 % RQD 100.00 % Core								
		2.70 m recovered								
		195.00 - 198.00 : 100.00 % RQD 100.00 % Core								
		2.70 m recovered								
		198.00 - 201.00 : 100.00 % RQD 100.00 % Core								
		2.80 m recovered								
		201.00 - 204.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		204.00 - 207.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		207.00 - 210.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		210.00 - 213.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		213.00 - 216.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		216.00 - 219.00 : 100.00 % RQD 100.00 % Core								
		2.80 m recovered								

Hole Number: **ESO-06-12**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		RQD 219.00 - 222.00 : 100.00 % RQD 100.00 % Core 3 m recovered 222.00 - 225.00 : 100.00 % RQD 100.00 % Core 3 m recovered 225.00 - 228.00 : 100.00 % RQD 100.00 % Core 3 m recovered 228.00 - 231.00 : 100.00 % RQD 100.00 % Core 3 m recovered 231.00 - 234.00 : 100.00 % RQD 100.00 % Core 3 m recovered 234.00 - 237.00 : 100.00 % RQD 100.00 % Core 3 m recovered 237.00 - 240.00 : 100.00 % RQD 100.00 % Core 3 m recovered 240.00 - 243.00 : 100.00 % RQD 100.00 % Core 3 m recovered 243.00 - 246.00 : 100.00 % RQD 100.00 % Core 3 m recovered 246.00 - 249.00 : 100.00 % RQD 100.00 % Core 3 m recovered 249.00 - 252.00 : 100.00 % RQD 100.00 % Core 3 m recovered **MINOR INTERVALS:** **Minor Interval:** 99.2 - 118.32 SLTST, Siltstone This interval is a dark to medium gray fine grained siltstone. The rock is composed of fine amphibole in a matrix of finer amphibole and feldspathoid. The interval is mainly massive but minor finer interbeds of argillite suggest bedding fabric. Bedding fabric suggests that bedding is at moderate angles (30-50*) to the core axis except in areas of folding where the bedding flattens. Alteration is lower to middle greenschist.The rock is unmineralized except for the presence of a few thin quartz/carbonate veins of less than 2 cm. **Minor Interval:** 118.32 - 120.05 TUFF, Tuff Off white to cream colored fine grained felsic tuff. The rock is composed of very fine quartz grains in a quartz matrix. A few slightly larger amphibole crystals occur. The percentage of amphibole increases slightly with depth. It has been metamorphosed and has a slight fabric to it otherwise it is massive. It has been affected by regional metamorphism but little else.								

Hole Number: **ESO-06-12**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 120.05 - 132.6 SLTST, Siltstone This interval is a dark to medium gray fine grained siltstone. The rock is composed of fine amphibole in a matrix of finer amphibole and feldspathoid. The interval is mainly massive but minor finer interbeds of argillite suggest bedding fabric. Bedding fabric suggests that bedding is at moderate angles (30-50*) to the core axis except in areas of folding where the bedding flattens. Alteration is lower to middle greenschist.The rock is unmineralized except for the presence of a few thin quartz/carbonate veins of less than 2 cm. **Minor Interval:** 132.6 - 132.8 SLTST, Siltstone This interval is a dark to medium gray fine grained siltstone. The rock is composed of fine amphibole in a matrix of finer amphibole and feldspathoid. The interval is mainly massive but minor finer interbeds of argillite suggest bedding fabric. Bedding fabric suggests that bedding is at moderate angles (30-50*) to the core axis except in areas of folding where the bedding flattens. Alteration is lower to middle greenschist.The rock is unmineralized except for the presence of a few thin quartz/carbonate veins of less than 2 cm. A small displacement fault cuts the core at about 20*. Well developed slickenslides are coated with black chlorite. **Minor Interval:** 132.8 - 145 SLTST, Siltstone This interval is a dark to medium gray fine grained siltstone. The rock is composed of fine amphibole in a matrix of finer amphibole and feldspathoid. The interval is mainly massive but minor finer interbeds of argillite suggest bedding fabric. Bedding fabric suggests that bedding is at moderate angles (30-50*) to the core axis except in areas of folding where the bedding flattens. Several folds cross this interval and bedding flattens in several spots.Alteration is lower to middle greenschist.The rock is unmineralized except for the presence of a few thin quartz/carbonate veins of less than 2 cm. There is an increase in number of small quartz/carbonate/pyrite veins in this interval. The veins constitute a very minor portion of the rock. No arsenopyrite was identified associated with the veins. **Minor Interval:** 145 - 163.03 SLTST, Siltstone This interval is a dark to medium gray fine grained siltstone. The rock is composed of fine amphibole in a matrix of finer amphibole and feldspathoid. The interval is mainly massive but minor finer interbeds of argillite suggest bedding fabric. Bedding fabric suggests that bedding is at moderate angles (30-50*) to the core axis except in areas of folding where the bedding flattens. Several folds cross this interval and bedding flattens in several spots.Alteration is lower to middle greenschist.The rock is unmineralized except for the presence of a few thin quartz/carbonate veins of less than 2 cm. **Minor Interval:** 163.3 - 163.4 CQV, Quartz-carbonate vein A 10 cm vein cut the core at high angle. The vein has calcite and quartz with open space filling textures. No associated sulfides.									

Hole Number: **ESO-06-12**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 163.4 - 186.3 SLTST, Siltstone This interval is a dark to medium gray fine grained siltstone. The rock is composed of fine amphibole in a matrix of finer amphibole and feldspathoid. The interval is mainly massive but minor finer interbeds of argillite suggest bedding fabric. Bedding fabric suggests that bedding is at low angles (10-20*) to the core axis. Alteration is lower to middle greenschist. Some coarse cubes of pyrite are widely disseminated as a result of metamorphism. Background pyrite is less than 1%. The only mineralization is weak pyrite associated with minor quartz/carbonate veining. **Minor Interval:** 186.3 - 187.7 SLTST, Siltstone Siltstone as above but is very blocky/ disky. Chlorite developed on partings. Possible shear zone? Some core recovery problems. **Structure** 186.30 - 187.70 : SZ Shear Zone, 30 Deg to CA **Minor Interval:** 187.7 - 194 SLTST, Siltstone Siltstone as above but increased number of thin bedding concordant quartz/carbonate veins. May be in conjunction with shear zones surrounding this interval. **Minor Interval:** 194 - 195.62 SLTST, Siltstone Siltstone similar to above but is very blocky/ disky. Chlorite developed on partings. Strong quartz/carbonate/pyrite veining is obscured by core recovery problems. Possible shear zone? Sulfide, as are quartz/carbonate veins, are patchy through the interval. In the lower part of the interval the sulfides, with quartz and ankerite, serve to cement a breccia. Open space filling textures are common. Breccia fines near lower contact to rock particles and gouge. Mixture has cemented the rock fragments and not been rebrecciated. **Mineralization** 194.00 - 195.62 : PY Pyrite, Diss Disseminated, 1% 194.00 - 195.62 : PY Pyrite, Int Interstitial, 4% 194.00 - 195.62 : PY Pyrite, Pat Patches, 4% 194.00 - 195.62 : PY Pyrite, SS Stringers, 3% 194.00 - 195.62 : CP Chalcopyrite, Pat Patches, 1% **Alteration** 194.00 - 195.62 :CA Carbonate, FC Fracture Controlled, MOD Moderate 194.00 - 195.62 :SI Silica, FC Fracture Controlled, MOD Moderate 194.00 - 195.62 :S Sulphide, FC Fracture Controlled, MOD Moderate **Structure** 194.00 - 195.62							

Hole Number: **ESO-06-12**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 195.62 - 199.63 CQV, Quartz-carbonate vein This interval is more of a total replacement of the siltstone with quartz/carbonate rather than a vein. Some relic "ghost" textures of the bedrock remain. Quartz/carbonate/pyrite has overprinted the siltstone. **Mineralization** 195.62 - 199.63 : PY Pyrite, Blb Blebs, 3% 195.62 - 199.63 : PY Pyrite, SS Stringers, 3% 195.62 - 199.63 : PY Pyrite, Diss Disseminated, 2% 195.62 - 199.63 : ASP Arsenopyrite, Diss Disseminated, 0.5% irregular distribution, different episodes of mineralization? 195.62 - 199.63 : SPH Sphalerite, Blb Blebs, 0.25% honey orange to black 195.62 - 199.63 : PY Pyrite, Pat Patches, 2% **Alteration** 195.62 - 199.63 :CA Carbonate, Pervasiv Pervasive, STG Strong 195.62 - 199.63 :SI Silica, Pervasiv Pervasive, STG Strong 195.62 - 199.63 :SR Sericite, Pervasiv Pervasive, MOD Moderate **Minor Interval:** 199.63 - 202.64 SLTST, Siltstone This interval is a dark to medium gray fine grained siltstone. The rock is composed of fine amphibole in a matrix of finer amphibole and feldspathoid. The interval is mainly massive but minor finer interbeds of argillite suggest bedding fabric. Bedding fabric suggests that bedding is at moderate angles (40-45*) to the core axis. Alteration is lower to middle greenschist. The section has been strongly cut by quartz/carbonate veining. Irregularly spaced and orientated veins to 3 cm are common. Blocky/disky section from 200 to 200.3 m **Mineralization** 199.63 - 202.64 : ASP Arsenopyrite, Diss Disseminated, 0.1% 199.63 - 202.64 : SPH Sphalerite, Blb Blebs, 0.05% 199.63 - 202.64 : PY Pyrite, Blb Blebs, 3% 199.63 - 202.64 : PY Pyrite, SS Stringers, 2% 199.63 - 202.64 : PY Pyrite, Diss Disseminated, 1% **Alteration** 199.63 - 202.64 :CA Carbonate, FC Fracture Controlled, STG Strong 199.63 - 202.64 :SI Silica, FC Fracture Controlled, STG Strong 199.63 - 202.64 :SR Sericite, FC Fracture Controlled, MOD Moderate 199.63 - 202.64 :S Sulphide, FC Fracture Controlled, PEV Weak								

Hole Number: **ESO-06-12**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 202.64 - 202.7 CQV, Quartz-carbonate vein Strong quartz/carbonate with weak sulfide cuts the core in this interval. **Mineralization** 202.64 - 202.70 : ASP Arsenopyrite, Diss Disseminated, 0.25% 202.64 - 202.70 : PY Pyrite, Blb Blebs, 2% 202.64 - 202.70 : PY Pyrite, Clst Clasts, 1% 202.64 - 202.70 : PY Pyrite, Pat Patches, 2% 202.64 - 202.70 : SPH Sphalerite, Blb Blebs, 0.1% red honey to black **Minor Interval:** 202.7 - 203.92 SLTST, Siltstone This interval is a dark to medium gray fine grained siltstone. The rock is composed of fine amphibole in a matrix of finer amphibole and feldspathoid. The interval is mainly massive but minor finer interbeds of argillite suggest bedding fabric. Bedding fabric suggests that bedding is at moderate angles (40-45*) to the core axis. Alteration is lower to middle greenschist. The section has been strongly cut by quartz/carbonate veining. Concordant veins to 3 cm are common. **Mineralization** 202.70 - 203.92 : PY Pyrite, Diss Disseminated, 1% 202.70 - 203.92 : PY Pyrite, Blb Blebs, 2% **Alteration** 202.70 - 203.92 :CA Carbonate, FC Fracture Controlled, MOD Moderate 202.70 - 203.92 :SI Silica, FC Fracture Controlled, MOD Moderate 202.70 - 203.92 :SR Sericite, FC Fracture Controlled, PEV Weak **Minor Interval:** 203.92 - 204.3 CQV, Quartz-carbonate vein Strong quartz/carbonate with weak sulfide cuts the core in this interval. **Mineralization** 203.92 - 204.30 : ASP Arsenopyrite, Diss Disseminated, 0.1% 203.92 - 204.30 : PY Pyrite, Blb Blebs, 2% 203.92 - 204.30 : PY Pyrite, Diss Disseminated, 2% 203.92 - 204.30 : PY Pyrite, SS Stringers, 3%								

Hole Number: **ESO-06-12**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 204.3 - 205.1 SLTST, Siltstone This interval is a dark to medium gray fine grained siltstone. The rock is composed of fine amphibole in a matrix of finer amphibole and feldspathoid. The interval is mainly massive but minor finer interbeds of argillite suggest bedding fabric. Bedding fabric suggests that bedding is at moderate angles (40-45*) to the core axis. Alteration is lower to middle greenschist. The section has been strongly cut by quartz/carbonate veining. Disruptive veins are common. A single gaudy 2 mm late vein cuts the core axis at a shallow (10-15*) angle. **Mineralization** 204.30 - 205.10 : PY Pyrite, Blb Blebs, 2% 204.30 - 205.10 : PY Pyrite, Diss Disseminated, 2% **Alteration** 204.30 - 205.10 :CA Carbonate, FC Fracture Controlled, STG Strong 204.30 - 205.10 :SI Silica, FC Fracture Controlled, MOD Moderate 204.30 - 205.10 :SR Sericite, FC Fracture Controlled, PEV Weak **Minor Interval:** 205.1 - 205.87 CQV, Quartz-carbonate vein Strong quartz/carbonate with sulfide cuts the core in this interval. **Mineralization** 205.10 - 205.87 : ASP Arsenopyrite, Diss Disseminated, 0.25% 205.10 - 205.87 : PY Pyrite, Blb Blebs, 3% 205.10 - 205.87 : PY Pyrite, SS Stringers, 3% 205.10 - 205.87 : PY Pyrite, Diss Disseminated, 2% 205.10 - 205.87 : SPH Sphalerite, Diss Disseminated, 0.1% **Minor Interval:** 205.87 - 206.97 SLTST, Siltstone This interval is a dark to medium gray fine grained siltstone. The rock is composed of fine amphibole in a matrix of finer amphibole and feldspathoid. The interval is mainly massive but minor finer interbeds of argillite suggest bedding fabric. Bedding fabric suggests that bedding is at moderate angles (40-45*) to the core axis. Alteration is lower to middle greenschist. The section has been strongly cut by quartz/carbonate veining. Disruptive veins are common. **Mineralization** 205.87 - 206.97 : PY Pyrite, Diss Disseminated, 2% 205.87 - 206.97 : PY Pyrite, Blb Blebs, 2% 205.87 - 206.97 : PY Pyrite, SS Stringers, 2% 205.87 - 206.97 : ASP Arsenopyrite, Diss Disseminated, 0.1% **Alteration** 205.87 - 206.97 :CA Carbonate, FC Fracture Controlled, MOD Moderate 205.87 - 206.97 :SI Silica, FC Fracture Controlled, MOD Moderate 205.87 - 206.97 :SR Sericite, FC Fracture Controlled, PEV Weak								

Hole Number: **ESO-06-12**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 206.97 - 209.1 CQV, Quartz-carbonate vein Strong quartz/carbonate with weak sulfide cuts the core in this interval. **Mineralization** 206.97 - 209.10 : ASP Arsenopyrite, Diss Disseminated, 0.25% 206.97 - 209.10 : PY Pyrite, Blb Blebs, 2% 206.97 - 209.10 : PY Pyrite, SS Stringers, 3% 206.97 - 209.10 : PY Pyrite, Diss Disseminated, 1% 206.97 - 209.10 : PY Pyrite, Pat Patches, 3% **Minor Interval:** 209.1 - 210.45 SLTST, Siltstone This interval is a dark to medium gray fine grained siltstone. The rock is composed of fine amphibole in a matrix of finer amphibole and feldspathoid. The interval is mainly massive but minor finer interbeds of argillite suggest bedding fabric. Bedding fabric suggests that bedding is at moderate angles (40-45*) to the core axis. Alteration is lower to middle greenschist. The section has been strongly cut by quartz/carbonate veining. Disruptive veins are very common. **Mineralization** 209.10 - 210.45 : PY Pyrite, Blb Blebs, 2% 209.10 - 210.45 : PY Pyrite, Diss Disseminated, 1% 209.10 - 210.45 : PY Pyrite, SS Stringers, 2% **Alteration** 209.10 - 210.45 :CA Carbonate, FC Fracture Controlled, MOD Moderate 209.10 - 210.45 :SI Silica, FC Fracture Controlled, MOD Moderate 209.10 - 210.45 :SR Sericite, FC Fracture Controlled, MOD Moderate **Minor Interval:** 210.45 - 212.78 SLTST, Siltstone This interval is a dark to medium gray fine grained siltstone. The rock is composed of fine amphibole in a matrix of finer amphibole and feldspathoid. The interval is mainly massive but minor finer interbeds of argillite suggest bedding fabric. Bedding fabric suggests that bedding is at moderate angles (40-45*) to the core axis. Bedding also suggests a fold nose cutting across the core at this interval. Alteration is lower to middle greenschist. The section has been cut by quartz/carbonate veining. **Mineralization** 210.45 - 212.78 : PY Pyrite, Blb Blebs, 1% 210.45 - 212.78 : PY Pyrite, Diss Disseminated, 1% **Alteration** 210.45 - 212.78 :CA Carbonate, FC Fracture Controlled, PEV Weak 210.45 - 212.78 :SI Silica, FC Fracture Controlled, PEV Weak								

Hole Number: **ESO-06-12**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 212.78 - 213.66 CQV, Quartz-carbonate vein Strong quartz/carbonate with weak sulfide cuts the core in this interval. **Mineralization** 212.78 - 213.66 : ASP Arsenopyrite, Diss Disseminated, 0.25% 212.78 - 213.66 : PY Pyrite, Blb Blebs, 2% 212.78 - 213.66 : PY Pyrite, Diss Disseminated, 2% 212.78 - 213.66 : PY Pyrite, SS Stringers, 3% 212.78 - 213.66 : PY Pyrite, Pat Patches, 4% **Minor Interval:** 213.66 - 214.64 SLTST, Siltstone This interval is a dark to medium gray fine grained siltstone. The rock is composed of fine amphibole in a matrix of finer amphibole and feldspathoid. The interval is mainly massive but minor finer interbeds of argillite suggest bedding fabric. Bedding fabric suggests that bedding is at moderate angles (40-45*) to the core axis. Alteration is lower to middle greenschist. The section has been strongly cut by quartz/carbonate veining. Disruptive veins are common. **Mineralization** 213.66 - 214.64 : PY Pyrite, Blb Blebs, 2% 213.66 - 214.64 : PY Pyrite, Diss Disseminated, 1% 213.66 - 214.64 : PY Pyrite, SS Stringers, 1% **Alteration** 213.66 - 214.64 :CA Carbonate, FC Fracture Controlled, MOD Moderate 213.66 - 214.64 :SI Silica, FC Fracture Controlled, MOD Moderate 213.66 - 214.64 :SR Sericite, FC Fracture Controlled, PEV Weak **Minor Interval:** 214.64 - 215.1 CQV, Quartz-carbonate vein Strong quartz/carbonate with sulfide cuts the core in this interval. **Mineralization** 214.64 - 215.10 : ASP Arsenopyrite, Diss Disseminated, 0.25% 214.64 - 215.10 : PY Pyrite, Diss Disseminated, 1% 214.64 - 215.10 : PY Pyrite, Blb Blebs, 3% 214.64 - 215.10 : PY Pyrite, SS Stringers, 3% 214.64 - 215.10 : PY Pyrite, Pat Patches, 3%								

Hole Number: **ESO-06-12**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 215.1 - 217.05 SLTST, Siltstone This interval is a dark to medium gray fine grained siltstone. The rock is composed of fine amphibole in a matrix of finer amphibole and feldspathoid. The interval is mainly massive but minor finer interbeds of argillite suggest bedding fabric. Bedding fabric suggests that bedding is at moderate angles (40-45*) to the core axis. Alteration is lower to middle greenschist. The section has been strongly cut by quartz/carbonate veining. Disruptive veins are common. **Mineralization** 215.10 - 217.05 : ASP Arsenopyrite, Diss Disseminated, 0.1% 215.10 - 217.05 : PY Pyrite, Diss Disseminated, 2% 215.10 - 217.05 : PY Pyrite, Blb Blebs, 2% **Alteration** 215.10 - 217.05 :CA Carbonate, FC Fracture Controlled, MOD Moderate 215.10 - 217.05 :SI Silica, FC Fracture Controlled, PEV Weak **Minor Interval:** 217.05 - 217.9 SZ, Shear zone blocky rubbly core **Minor Interval:** 217.9 - 226 SLTST, Siltstone This interval is a dark to medium gray fine grained siltstone. The rock is composed of fine amphibole in a matrix of finer amphibole and feldspathoid. The interval is mainly massive but minor finer interbeds of argillite suggest bedding fabric. Bedding fabric suggests that bedding is at moderate angles (30-50*) to the core axis except in areas of fold noses where the bedding flattens. Alteration is lower to middle greenschist.The rock has been weakly cut by quartz/carbonate veining. **Minor Interval:** 226 - 250.62 SLTST, Siltstone This interval is a dark to medium gray fine grained siltstone. The rock is composed of fine amphibole in a matrix of finer amphibole and feldspathoid. The interval is mainly massive but minor finer interbeds of argillite suggest bedding fabric. Several fold noses are cut by the core. Bedding fabric suggests that bedding is at moderate angles (30-50*) to the core axis except in areas of fold noses where the bedding flattens. Fold noses 229-231, 232.5-239, 239.5- 241, and 242-249, Alteration is lower to middle greenschist.The rock has been weakly pervasively altered in spots and has common quartz/carbonate,primarily in the fold noses. The bedding is very disrupted by folding and quartz/carbonate veining as the lower contact is approached.								

Hole Number: **ESO-06-12**

Units: METRIC

Detailed Lithology

From	To	Lithology
250.62	349.85	**ARBIF, Argillitic Iron formation** Dark greenish gray with black (magnetite) and rare white (silica) bands. This unit consists of a dark green to black fine grained amphibole in a very fine matrix. Rare white siliceous bands and occasional black magnetite bands are present. The interval has been strongly folded with some sharp kink folds present. Bedding angles varies widely, from 60* to parallel to the core axis. A second penetrating fabric cuts at near right angles to bedding. Tight folds and disrupted zones are usually site for quartz/carbonate veining or pervasive silica +- carbonate flooding. Most of the mineralization is limited to zones of diffuse quartz/carbonate veining with varible sulfides. Most veining is discordant with bedding and seems to perfer the other fabric but not exclusively. **RQD** 252.00 - 255.00 : 100.00 % RQD 100.00 % Core 3 m recovered 255.00 - 258.00 : 100.00 % RQD 100.00 % Core 3 m recovered 258.00 - 261.00 : 100.00 % RQD 100.00 % Core 3 m recovered 261.00 - 264.00 : 100.00 % RQD 100.00 % Core 3 m recovered 264.00 - 267.00 : 100.00 % RQD 100.00 % Core 3 m recovered 267.00 - 270.00 : 100.00 % RQD 100.00 % Core 3 m recovered 270.00 - 273.00 : 100.00 % RQD 100.00 % Core 3 m recovered 273.00 - 276.00 : 100.00 % RQD 100.00 % Core 3 m recovered 276.00 - 279.00 : 100.00 % RQD 100.00 % Core 3 m recovered 279.00 - 282.00 : 100.00 % RQD 100.00 % Core 3 m recovered 282.00 - 285.00 : 100.00 % RQD 100.00 % Core 3 m recovered 285.00 - 288.00 : 100.00 % RQD 100.00 % Core 3 m recovered 288.00 - 291.00 : 100.00 % RQD 100.00 % Core 3 m recovered 291.00 - 294.00 : 100.00 % RQD 100.00 % Core 3 m recovered 294.00 - 297.00 : 100.00 % RQD 100.00 % Core 3 m recovered 297.00 - 300.00 : 100.00 % RQD 100.00 % Core 3 m recovered

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
30224	250.62	252.00	1.38				
30226	282.10	283.60	1.50				
30227	283.60	284.60	1.00				
30228	284.60	285.16	0.56				
30229	285.16	286.00	0.84				
30230	286.00	287.00	1.00				
30231	287.00	288.00	1.00				
30232	328.50	330.00	1.50				
30233	330.00	331.00	1.00				
30234	331.00	332.50	1.50				

Hole Number: **ESO-06-12**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		RQD 300.00 - 303.00 : 100.00 % RQD 100.00 % Core 3 m recovered 303.00 - 306.00 : 100.00 % RQD 100.00 % Core 3 m recovered 306.00 - 309.00 : 100.00 % RQD 100.00 % Core 3 m recovered 309.00 - 312.00 : 100.00 % RQD 100.00 % Core 3 m recovered 312.00 - 315.00 : 100.00 % RQD 100.00 % Core 3 m recovered 315.00 - 318.00 : 100.00 % RQD 100.00 % Core 3 m recovered 318.00 - 321.00 : 100.00 % RQD 100.00 % Core 3 m recovered 321.00 - 324.00 : 100.00 % RQD 100.00 % Core 3 m recovered 324.00 - 327.00 : 100.00 % RQD 100.00 % Core 3 m recovered 327.00 - 330.00 : 100.00 % RQD 100.00 % Core 3 m recovered 330.00 - 333.00 : 100.00 % RQD 100.00 % Core 3 m recovered 333.00 - 336.00 : 100.00 % RQD 100.00 % Core 3 m recovered 336.00 - 339.00 : 100.00 % RQD 100.00 % Core 3 m recovered 339.00 - 342.00 : 100.00 % RQD 100.00 % Core 3 m recovered 342.00 - 345.00 : 100.00 % RQD 100.00 % Core 3 m recovered 345.00 - 348.00 : 100.00 % RQD 100.00 % Core 3 m recovered 348.00 - 351.00 : 100.00 % RQD 100.00 % Core 3 m recovered								

Hole Number: **ESO-06-12**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 284.6 - 285.16 CQV, Quartz-carbonate vein quartz/carbonate vein cuts the core axis at 45*. **Mineralization** 284.60 - 285.16 : PY Pyrite, SS Stringers, 3% 284.60 - 285.16 : ASP Arsenopyrite, Diss Disseminated, 0.5% fine xtals near upper contact, isolated in the quartz 284.60 - 285.16 : PY Pyrite, Len Lenses, 5% 284.60 - 285.16 : PY Pyrite, Blb Blebs, 4% 284.60 - 285.16 : PY Pyrite, Diss Disseminated, 2% **Minor Interval:** 330 - 331 CQV, Quartz-carbonate vein A quartz/carbonate vein concordant with bedding cut the core at a 10* angle. The vein has heavy sulfide. **Mineralization** 330.00 - 331.00 : PY Pyrite, SS Stringers, 3% 330.00 - 331.00 : PY Pyrite, Len Lenses, 15% 330.00 - 331.00 : PY Pyrite, Blb Blebs, 5% 330.00 - 331.00 : PY Pyrite, Diss Disseminated, 2% **Minor Interval:** 344.62 - 344.68 CQV, Quartz-carbonate vein sulfide loaded quartz/carbonate vein. **Mineralization** 344.62 - 344.68 : ASP Arsenopyrite, Blb Blebs, 2% 344.62 - 344.68 : PY Pyrite, Len Lenses, 15% 344.62 - 344.68 : PY Pyrite, Blb Blebs, 5% 344.62 - 344.68 : SPH Sphalerite, Blb Blebs, 0.5%								
349.85	357.64	**ARG, Argillite** Sooty black to dark gray fine grained argillite. The rock is composed primarily of fine grained quartz grains in a finer grained amphibole. The unit is thinly bedded and cuts at 10* to 15* degrees from the core axis. The rock is nonmagnetic.The rock is relatively unaltered. **RQD** 351.00 - 354.00 : 100.00 % RQD 100.00 % Core 3 m recovered 354.00 - 357.00 : 100.00 % RQD 100.00 % Core 3 m recovered 357.00 - 360.00 : 100.00 % RQD 100.00 % Core 3 m recovered								

Hole Number: **ESO-06-12**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
357.64	469.20	**SLTST, Siltstone** This interval is a dark to medium gray fine grained siltstone. The rock is composed of fine amphibole in a matrix of finer amphibole and feldspathoid. Minor coarser beds of sandstone occur. There seems to be a gradual coarsening with depth. The interval is mainly massive but minor finer interbeds of argillite suggest bedding fabric. Several fold noses are cut by the core. Bedding fabric suggests that bedding is at moderate angles (30-50°) to the core axis except in areas of fold noses where the bedding flattens. Alteration is lower to middle greenschist.The rock has been weakly pervasively altered in spots. **RQD** 360.00 - 363.00 : 100.00 % RQD 100.00 % Core 3 m recovered 363.00 - 366.00 : 100.00 % RQD 100.00 % Core 3 m recovered 366.00 - 369.00 : 100.00 % RQD 100.00 % Core 3 m recovered 369.00 - 372.00 : 100.00 % RQD 100.00 % Core 3 m recovered 372.00 - 375.00 : 100.00 % RQD 100.00 % Core 3 m recovered 375.00 - 378.00 : 100.00 % RQD 100.00 % Core 3 m recovered 378.00 - 381.00 : 100.00 % RQD 100.00 % Core 3 m recovered 381.00 - 384.00 : 100.00 % RQD 97.00 % Core 2.90 m recovered 384.00 - 387.00 : 100.00 % RQD 100.00 % Core 3 m recovered 387.00 - 390.00 : 100.00 % RQD 100.00 % Core 3 m recovered 390.00 - 393.00 : 100.00 % RQD 100.00 % Core 3 m recovered 393.00 - 396.00 : 100.00 % RQD 100.00 % Core 3 m recovered 396.00 - 399.00 : 100.00 % RQD 100.00 % Core 3 m recovered 399.00 - 402.00 : 100.00 % RQD 100.00 % Core 3 m recovered 402.00 - 405.00 : 100.00 % RQD 100.00 % Core 3 m recovered 405.00 - 408.00 : 100.00 % RQD 100.00 % Core 3 m recovered 408.00 - 411.00 : 100.00 % RQD 100.00 % Core 3 m recovered								

Hole Number: **ESO-06-12**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		RQD								
		411.00 - 414.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		414.00 - 417.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		417.00 - 420.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		420.00 - 423.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		423.00 - 426.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		426.00 - 429.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		429.00 - 432.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		432.00 - 435.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		435.00 - 438.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		438.00 - 441.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered'								
		441.00 - 444.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		444.00 - 447.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		447.00 - 450.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		450.00 - 453.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		453.00 - 456.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		456.00 - 459.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		459.00 - 462.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								
		462.00 - 465.00 : 100.00 % RQD 75.00 % Core								
		2.25 m recovered								
		465.00 - 468.00 : 100.00 % RQD 93.00 % Core								
		2.8 m recovered								
		468.00 - 471.00 : 100.00 % RQD 100.00 % Core								
		3 m recovered								

Hole Number: **ESO-06-12**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 357.64 - 378.16 SLTST, Siltstone This interval is a medium to light gray fine grained siltstone. The rock iscomposed of fine amphibole in a matrix of finer amphibole and feldspathoid. Thin coarser beds of sandstone occur. The interval is mainly massive but minor finer interbeds of argillite suggest bedding fabric. Several fold noses are cut by the core. Bedding fabric suggests that bedding is at moderate angles (30-50*) to the core axis except in areas of fold noses where the bedding flattens. Alteration is lower to middle greenschist. The rock is relatively unaltered. **Minor Interval:** 378.16 - 380.43 SNSTN, Sandstone This interval is a medium to light greenish-gray fine grained sandstone. The rock iscomposed of fine amphibole in a matrix of finer amphibole and feldspathoid. Thin finer beds of siltstone occur. The interval is mainly massive but minor finer interbeds of siltstone suggest bedding fabric. . Several fold noses are cut by the core. Bedding fabric suggests that bedding is at moderate angles (30-50*) to the core axis except in areas of fold noses where the bedding flattens. Alteration is lower to middle greenschist. The rock is relatively unaltered. **Minor Interval:** 380.43 - 381.52 SLTST, Siltstone This interval is a medium to light gray fine grained siltstone. The rock iscomposed of fine amphibole in a matrix of finer amphibole and feldspathoid. Thin coarser beds of sandstone occur. The interval is mainly massive but minor finer interbeds of argillite suggest bedding fabric. Several fold noses are cut by the core. Bedding fabric suggests that bedding is at moderate angles (30-50*) to the core axis except in areas of fold noses where the bedding flattens. Alteration is lower to middle greenschist. The rock is relatively unaltered. **Minor Interval:** 381.52 - 382.78 SNSTN, Sandstone This interval is a medium to light greenish-gray fine grained sandstone. The rock iscomposed of fine amphibole in a matrix of finer amphibole and feldspathoid. Thin finer beds of siltstone occur. The interval is mainly massive but minor finer interbeds of siltstone suggest bedding fabric. . Several fold noses are cut by the core. Bedding fabric suggests that bedding is at moderate angles (30-50*) to the core axis except in areas of fold noses where the bedding flattens. Alteration is lower to middle greenschist. The rock is relatively unaltered. This appears to be a small stream channel because three small pebbles are located at the bottom contact. Down is down? **Minor Interval:** 382.78 - 386.57 SLTST, Siltstone This interval is a medium to light gray fine grained siltstone. The rock iscomposed of fine amphibole in a matrix of finer amphibole and feldspathoid. Thin coarser beds of sandstone occur. The interval is mainly massive but minor finer interbeds of argillite suggest bedding fabric. Several fold noses are cut by the core. Bedding fabric suggests that bedding is at moderate angles (30-50*) to the core axis except in areas of fold noses where the bedding flattens. Alteration is lower to middle greenschist. The rock is relatively unaltered.								

Hole Number: **ESO-06-12**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 386.57 - 391.15 SNSTN, Sandstone This interval is a medium to light greenish-gray fine grained sandstone. The rock iscomposed of fine amphibole in a matrix of finer amphibole and feldspathoid. Thin finer beds of siltstone occur. The interval is mainly massive but minor finer interbeds of siltstone suggest bedding fabric. . Several fold noses are cut by the core. Bedding fabric suggests that bedding is at moderate angles (30-50*) to the core axis except in areas of fold noses where the bedding flattens. Alteration is lower to middle greenschist. The rock is relatively unaltered. **Minor Interval:** 391.15 - 392.68 SLTST, Siltstone This interval is a medium to light gray fine grained siltstone. The rock iscomposed of fine amphibole in a matrix of finer amphibole and feldspathoid. Thin coarser beds of sandstone occur. The interval is mainly massive but minor finer interbeds of argillite suggest bedding fabric. Several fold noses are cut by the core. Bedding fabric suggests that bedding is at moderate angles (30-50*) to the core axis except in areas of fold noses where the bedding flattens. Alteration is lower to middle greenschist. The rock is relatively unaltered. **Minor Interval:** 392.68 - 412 SNSTN, Sandstone This interval is a medium to light greenish-gray fine grained sandstone. The rock iscomposed of fine amphibole in a matrix of finer amphibole and feldspathoid. Thin finer beds of siltstone occur. The interval is mainly massive but minor finer interbeds of siltstone suggest bedding fabric. . Several fold noses are cut by the core. Bedding fabric suggests that bedding is at moderate angles (30-50*) to the core axis except in areas of fold noses where the bedding flattens. Alteration is lower to middle greenschist. The rock is relatively unaltered. **Minor Interval:** 412 - 412.9 ARG, Argillite Thinly bedded black argillite. **Minor Interval:** 412.9 - 431.42 SLTST, Siltstone This interval is a dark to medium gray fine grained siltstone. The rock is composed of fine amphibole in a matrix of finer amphibole and feldspathoid. Minor coarser beds of sandstone occur. The interval is mainly massive but minor finer interbeds of argillite suggest bedding fabric. Bedding fabric suggests that bedding is at low angles (10-15*) to the core axis. Alteration is lower to middle greenschist.The rock has been weakly pervasively altered in spots. **Minor Interval:** 431.42 - 433.48 FZ, Fault zone Dry fault zone? The zone of weakness is parallel to bedding. May be just formational.								

Hole Number: **ESO-06-12**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 433.48 - 464 SLTST, Siltstone This interval is a dark to medium gray fine grained siltstone. The rock is composed of fine amphibole in a matrix of finer amphibole and feldspathoid. Minor coarser beds of sandstone occur. The interval is mainly massive but minor finer interbeds of argillite suggest bedding fabric. Bedding fabric suggests that bedding is at low angles (10-15*) to the core axis. Alteration is lower to middle greenschist.The rock has been weakly pervasively altered in spots.								
469.20	501.80	**SNSTN, Sandstone** Light gray to greenish gray fine grained sandstone. The rock is composed primarily of quartz grains in a matrix of amphibole (chlorite?). Partings are also chloritic. The unit is coarsely bedded and poorly sorted. Several poorly defined/sorted pebble conglomerate units occur. Bedding angles are low, cutting the core axis at 10* to 15*.The interval has been metamorphosed to greenschist facies and the pebbles are stretched and deformed. No mineralization is present. **RQD** 471.00 - 474.00 : 100.00 % RQD 100.00 % Core 3 m recovered 474.00 - 477.00 : 100.00 % RQD 100.00 % Core 3 m recovered 477.00 - 480.00 : 100.00 % RQD 100.00 % Core 3 m recovered 480.00 - 483.00 : 100.00 % RQD 100.00 % Core 3 m recovered 483.00 - 486.00 : 100.00 % RQD 100.00 % Core 3 m recovered 486.00 - 489.00 : 100.00 % RQD 100.00 % Core 3 m recovered 489.00 - 492.00 : 100.00 % RQD 100.00 % Core 3 m recovered 492.00 - 495.00 : 100.00 % RQD 100.00 % Core 3 m recovered 495.00 - 498.00 : 100.00 % RQD 100.00 % Core 3 m recovered 498.00 - 501.00 : 100.00 % RQD 100.00 % Core 3 m recovered 501.00 - 504.00 : 100.00 % RQD 100.00 % Core 3 m recovered								

Hole Number: **ESO-06-12**

Units: METRIC

Detailed Lithology

From	To	Lithology
501.80	602.00	**SLTST, Siltstone** This interval is a dark to medium gray to greenish gray fine grained siltstone. The rock is composed of fine amphibole in a matrix of finer amphibole and feldspathoid. Coarser beds of sandstone and minor pebble conglomerates occur. as do a few finer beds of argillite and argillic iron formation. The interval is mainly massive but minor finer interbeds of argillite suggest bedding fabric. Bedding fabric suggests that bedding is at moderate angles (30-40°) to the core axis except in areas of fold noses where the bedding flattens. Regional metamorphism is lower to middle greenschist. The rock is mainly nonmagnetic but some zones to have weak magnetism.The rock has been varibly pervasively altered and has common diffused quartz veining. Quartz/ankerite/sericite/pyrite mineralization is common. The mineralization is dessimenated in the more porous rocks but is blebby and spoty in the argillite. Some of the pebbles were mineralized while others are fringed by or have veinlets of mineralization. **Mineralization** 501.80 - 560.00 : PY Pyrite, Blb Blebs, 1.5% 501.80 - 560.00 : PY Pyrite, Diss Disseminated, 1.5% 501.80 - 560.00 : ASP Arsenopyrite, Diss Disseminated, 0.25% **Alteration** 501.80 - 560.00 :CA Carbonate, Pervasiv Pervasive, STG Strong 501.80 - 560.00 :S Sulphide, Pervasiv Pervasive, PEV Weak 501.80 - 560.00 :SI Silica, Pervasiv Pervasive, STG Strong 501.80 - 560.00 :SR Sericite, Pervasiv Pervasive, MOD Moderate **RQD** 504.00 - 507.00 : 100.00 % RQD 100.00 % Core 3 m recovered 507.00 - 510.00 : 100.00 % RQD 100.00 % Core 3 m recovered 510.00 - 513.00 : 100.00 % RQD 100.00 % Core 3 m recovered 513.00 - 516.00 : 100.00 % RQD 100.00 % Core 3 m recovered 516.00 - 519.00 : 100.00 % RQD 100.00 % Core 3 m recovered 519.00 - 522.00 : 100.00 % RQD 100.00 % Core 3 m recovered' 522.00 - 525.00 : 100.00 % RQD 100.00 % Core 3 m recovered 525.00 - 528.00 : 100.00 % RQD 100.00 % Core 3 m recovered 528.00 - 531.00 : 100.00 % RQD 100.00 % Core 3 m recovered 531.00 - 534.00 : 100.00 % RQD 100.00 % Core 3 m recovered

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
30236	506.00	507.45	1.45				
30237	507.45	508.00	0.55				
30238	508.00	509.00	1.00				
30239	509.00	510.00	1.00				
30240	510.00	511.00	1.00				
30241	511.00	512.00	1.00				
30242	512.00	513.00	1.00				
30243	513.00	514.00	1.00				
30244	514.00	515.00	1.00				
30246	515.00	515.90	0.90				
30247	515.90	517.00	1.10				
30248	517.00	518.00	1.00				
30249	518.00	519.00	1.00				
30250	519.00	520.00	1.00				
30251	520.00	521.00	1.00				
30252	521.00	522.00	1.00				
30253	522.00	523.00	1.00				
30254	523.00	524.00	1.00				
30256	524.00	525.00	1.00				
30257	525.00	526.00	1.00				
30258	526.00	527.00	1.00				
30259	527.00	527.40	0.40				
30260	527.40	528.00	0.60				
30261	528.00	529.00	1.00				
30262	529.00	530.00	1.00				
30263	530.00	531.00	1.00				
30264	531.00	532.00	1.00				
30266	532.00	533.00	1.00				
30267	533.00	534.00	1.00				
30268	534.00	535.00	1.00				
30269	535.00	536.00	1.00				
30270	536.00	537.00	1.00				
30271	537.00	538.00	1.00				
30272	538.00	539.00	1.00				
30273	539.00	540.00	1.00				
30274	540.00	541.25	1.25				
30276	541.25	542.00	0.75				
30277	542.00	543.00	1.00				
30278	543.00	544.00	1.00				
30279	544.00	544.90	0.90				
30280	544.90	546.00	1.10				
30281	546.00	547.00	1.00				

Hole Number: **ESO-06-12**

Units: METRIC

Detailed Lithology		
From	To	Lithology
		RQD
		534.00 - 537.00 : 100.00 % RQD 100.00 % Core
		3 m recovered
		537.00 - 540.00 : 100.00 % RQD 100.00 % Core
		3 m recovered
		540.00 - 543.00 : 100.00 % RQD 100.00 % Core
		3 m recovered
		543.00 - 546.00 : 100.00 % RQD 100.00 % Core
		3 m recovered
		546.00 - 549.00 : 100.00 % RQD 100.00 % Core
		3 m recovered
		549.00 - 552.00 : 100.00 % RQD 100.00 % Core
		3 m recovered
		552.00 - 555.00 : 100.00 % RQD 100.00 % Core
		3 m recovered
		555.00 - 558.00 : 100.00 % RQD 100.00 % Core
		3 m recovered
		558.00 - 561.00 : 100.00 % RQD 100.00 % Core
		3 m recovered
		561.00 - 564.00 : 100.00 % RQD 100.00 % Core
		3 m recovered
		564.00 - 567.00 : 100.00 % RQD 100.00 % Core
		3 m recovered
		567.00 - 570.00 : 100.00 % RQD 100.00 % Core
		3 m recovered
		570.00 - 573.00 : 100.00 % RQD 100.00 % Core
		3 m recovered
		573.00 - 576.00 : 100.00 % RQD 100.00 % Core
		3 m recovered
		576.00 - 579.00 : 100.00 % RQD 100.00 % Core
		3 m recovered
		579.00 - 582.00 : 100.00 % RQD 100.00 % Core
		3 m recovered
		582.00 - 585.00 : 100.00 % RQD 100.00 % Core
		3 m recovered
		585.00 - 588.00 : 100.00 % RQD 100.00 % Core
		3 m recovered
		588.00 - 591.00 : 100.00 % RQD 100.00 % Core
		3 m recovered
		591.00 - 594.00 : 100.00 % RQD 100.00 % Core
		3 m recovered
		594.00 - 597.00 : 100.00 % RQD 100.00 % Core
		3 m recovered

Assay Data							
Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
30282	547.00	548.00	1.00				
30283	548.00	549.00	1.00				
30284	549.00	550.00	1.00				
30286	550.00	551.00	1.00				
30287	551.00	552.00	1.00				
30288	552.00	553.00	1.00				
30289	553.00	554.00	1.00				
30290	554.00	554.86	0.86				
30291	554.86	556.00	1.14				
30292	556.00	557.00	1.00				
30293	557.00	558.00	1.00				
30294	558.00	559.00	1.00				
30296	559.00	560.00	1.00				
30297	560.00	561.00	1.00				
30298	561.00	562.00	1.00				
30299	562.00	563.00	1.00				
30300	563.00	564.00	1.00				
30301	564.00	565.00	1.00				
30302	565.00	566.00	1.00				
30303	566.00	567.00	1.00				
30304	567.00	568.00	1.00				
30306	568.00	569.00	1.00				
30307	569.00	570.00	1.00				
30308	570.00	571.00	1.00				
30309	571.00	572.00	1.00				
30310	572.00	573.00	1.00				
30311	573.00	573.45	0.45				
30312	573.45	574.00	0.55				
30313	574.00	575.00	1.00				
30314	575.00	576.00	1.00				
30316	576.00	577.00	1.00				
30317	577.00	578.00	1.00				
30318	578.00	579.00	1.00				
30319	579.00	580.00	1.00				
30320	580.00	581.00	1.00				
30321	581.00	582.00	1.00				
30322	582.00	583.00	1.00				
30323	583.00	584.00	1.00				
30324	584.00	585.00	1.00				
30326	585.00	586.00	1.00				
30327	586.00	587.00	1.00				
30328	587.00	588.00	1.00				

Hole Number: **ESO-06-12**

Units: METRIC

Detailed Lithology

From	To	Lithology
		RQD 597.00 - 600.00 : 100.00 % RQD 100.00 % Core 3 m recovered 600.00 - 602.00 : 100.00 % RQD 100.00 % Core 2 m recovered **MINOR INTERVALS:** **Minor Interval:** 501.8 - 506 ARG, Argillite Black to dark gray to light gray fine grained argillite. The rock is composed primarily of fine grained quartz grains in a finer grained amphibole and sericite matrix. There are common thin siltstone interbeds..The unit is thinly bedded and cuts at 10* to 15* degrees from the core axis except in folded areas where bedding flattens and is parallel to core axis. The bedding shows commom soft sediment defirmation and at least 2 directions of fabric orientation. The rock is weakly magnetic in a few intervals. The interval has been metamorphosed to greenschist facies. Above the fault zone altertion is weak, consisting of weak sericitization. Below the fault zone alteration increases to the bottom of the interval **Minor Interval:** 506 - 507.2 FZ, Fault zone dry shear zone at low angle to core. weak argillization **Minor Interval:** 507.2 - 515.9 SNSTN, Sandstone Light gray to greenish gray fine grained sandstone. The rock is composed primarily of quartz grains in a matrix of amphibole. The unit is coarsely bedded and poorly sorted. Bedding angles are low, cutting the core axis at 20* to 30*.The interval has been metamorphosed to greenschist facies. The unit has been pervasively altered and mineralized. Quartz/ankerite/sericite alteration with pyrite, arsenopyrite, and fuchsite are common. **Mineralization** 507.20 - 515.90 : ASP Arsenopyrite, Diss Disseminated, 0.25% 507.20 - 515.90 : PY Pyrite, Diss Disseminated, 2% 507.20 - 515.90 : PY Pyrite, Blb Blebs, 1% **Alteration** 507.20 - 515.90 :CA Carbonate, Pervasiv Pervasive, STG Strong 507.20 - 515.90 :SI Silica, Pervasiv Pervasive, STG Strong 507.20 - 515.90 :S Sulphide, Pervasiv Pervasive, PEV Weak 507.20 - 515.90 :F Fuchsite, Pervasiv Pervasive, PEV Weak 507.20 - 515.90 :SR Sericite, Pervasiv Pervasive, PEV Weak

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
30329	588.00	589.00	1.00				
30330	589.00	589.73	0.73				
30331	589.73	591.00	1.27				
30332	591.00	592.00	1.00				
30333	592.00	593.00	1.00				
30334	593.00	594.00	1.00				
30336	594.00	595.00	1.00				
30337	595.00	596.00	1.00				
30338	596.00	596.73	0.73				
30339	596.73	598.00	1.27				
30340	598.00	599.00	1.00				
30341	599.00	600.00	1.00				
30342	600.00	601.00	1.00				
30343	601.00	602.00	1.00				

Hole Number: **ESO-06-12**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 515.9 - 527.4 PBCONG, Pebble conglomerate This interval has pebble conglomerate layers mixed in with finer sedimentary units. There are a few thin siltstone units mixed with units of silt to sand matrix with small pebbles. The porosity of the unit appears high and the entire unit is sericitically altered. Sericite development is moderate with common quartz/carbonate veining. The quartz/carbonate/sericite alteration and quartz/carbonate/sericite veining varies in intensity to the bottom of this interval. Sulfidization is moderate with 1-2% pyrite mainly as blebs around diffuse quartz/ankerite veins and following some more receptive beds. Some of the coarser pyrite blebs are cubic. Trace amounts of very fine grained arsenopyrite and fuchsite are widely disseminated **Mineralization** 515.90 - 527.40 : ASP Arsenopyrite, Diss Disseminated, 0.25% 515.90 - 527.40 : PY Pyrite, Blb Blebs, 2% 515.90 - 527.40 : PY Pyrite, Diss Disseminated, 1% **Alteration** 515.90 - 527.40 :CA Carbonate, Pervasiv Pervasive, STG Strong 515.90 - 527.40 :F Fuchsite, Pervasiv Pervasive, PEV Weak 515.90 - 527.40 :SI Silica, Pervasiv Pervasive, STG Strong 515.90 - 527.40 :SR Sericite, Pervasiv Pervasive, PEV Weak 515.90 - 527.40 :S Sulphide, Pervasiv Pervasive, PEV Weak **Minor Interval:** 527.4 - 541.25 SLTST, Siltstone This interval is a dark to medium gray fine grained siltstone. The rock is composed of fine amphibole in a matrix of finer amphibole and feldspathoid. Minor coarser beds of sandstone occur. Regional metamorphism is lower to middle greenschist.The rock has been intensely pervasively altered. **Mineralization** 527.40 - 541.25 : ASP Arsenopyrite, Diss Disseminated, 0.25% 527.40 - 541.25 : PY Pyrite, Diss Disseminated, 1% 527.40 - 541.25 : PY Pyrite, Blb Blebs, 2% **Alteration** 527.40 - 541.25 :CA Carbonate, Pervasiv Pervasive, STG Strong 527.40 - 541.25 :F Fuchsite, Pervasiv Pervasive, PEV Weak 527.40 - 541.25 :SI Silica, Pervasiv Pervasive, STG Strong 527.40 - 541.25 :SR Sericite, Pervasiv Pervasive, MOD Moderate 527.40 - 541.25 :SR Sericite, Pervasiv Pervasive, STG Strong							

Hole Number: **ESO-06-12**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 541.25 - 544.9 PBCONG, Pebble conglomerate This interval has pebble conglomerate layers mixed in with finer sedimentary units. There are a few thin siltstone units mixed with units of silt to sand matrix with small pebbles. The porosity of the unit appears high and the entire unit is sericitically altered. Sericite development is moderate with common quartz/carbonate veining. The quartz/carbonate/sericite alteration and quartz/carbonate/sericite veining varies in intensity to the bottom of this interval. Sulfidization is moderate with 1-2% pyrite mainly as blebs around diffuse quartz/ankerite veins and following some more receptive beds. Some of the coarser pyrite blebs are cubic. Trace amounts of very fine grained arsenopyrite and fuchsite are widely disseminated **Mineralization** 541.25 - 544.90 : ASP Arsenopyrite, Diss Disseminated, 0.25% 541.25 - 544.90 : PY Pyrite, Diss Disseminated, 2% 541.25 - 544.90 : PY Pyrite, Blb Blebs, 2% 541.25 - 544.90 : SPH Sphalerite, Diss Disseminated, 0.01% very fine orange-brown crystals? **Alteration** 541.25 - 544.90 :CA Carbonate, Pervasiv Pervasive, STG Strong 541.25 - 544.90 :SI Silica, Pervasiv Pervasive, STG Strong 541.25 - 544.90 :SR Sericite, Pervasiv Pervasive, MOD Moderate 541.25 - 544.90 :F Fuchsite, Pervasiv Pervasive, PEV Weak 541.25 - 544.90 :S Sulphide, Pervasiv Pervasive, PEV Weak **Minor Interval:** 544.9 - 554.86 SLTST, Siltstone This interval is a dark to medium gray fine grained siltstone. The rock is composed of fine amphibole in a matrix of finer amphibole and feldspathoid. Minor coarser beds of sandstone occur. Regional metamorphism is lower to middle greenschist.The rock has been intensely pervasively altered. **Mineralization** 544.90 - 554.86 : ASP Arsenopyrite, Diss Disseminated, 0.25% 544.90 - 554.86 : PY Pyrite, Blb Blebs, 2% 544.90 - 554.86 : PY Pyrite, Diss Disseminated, 2% 544.90 - 554.86 : SPH Sphalerite, Diss Disseminated, 0.01% as above **Alteration** 544.90 - 554.86 :CA Carbonate, Pervasiv Pervasive, STG Strong 544.90 - 554.86 :F Fuchsite, Pervasiv Pervasive, PEV Weak 544.90 - 554.86 :S Sulphide, Pervasiv Pervasive, PEV Weak 544.90 - 554.86 :SI Silica, Pervasiv Pervasive, STG Strong 544.90 - 554.86 :SR Sericite, Pervasiv Pervasive, STG Strong								

Hole Number: **ESO-06-12**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 554.86 - 573.45 PBCONG, Pebble conglomerate This interval has pebble conglomerate layers mixed in with finer sedimentary units. There are a few thin siltstone units mixed with units of silt to sand matrix with small pebbles. The porosity of the unit appears high and the entire unit is sericitically altered. Sericite development is moderate with common difuse uartz/carbonate veining. The quartz/carbonate/sericite alteration and quartz/carbonate/sericite veining varies in intensity to the bottom of this interval. Sulfidization is moderate with 1-2% pyrite mainly as blebs around diffuse quartz/ankerite veins and following some more receptive beds. Some of the coarser pyrite blebs are cubic. Trace amounts of very fine grained arsenopyrite and fuchsite are widely disseminated **Mineralization** 554.86 - 573.45 : ASP Arsenopyrite, Diss Disseminated, 0.25% 554.86 - 573.45 : PY Pyrite, Diss Disseminated, 2% 554.86 - 573.45 : PY Pyrite, Blb Blebs, 2% **Alteration** 554.86 - 573.45 :CA Carbonate, Pervasiv Pervasive, STG Strong 554.86 - 573.45 :F Fuchsite, Pervasiv Pervasive, PEV Weak 554.86 - 573.45 :SI Silica, Pervasiv Pervasive, STG Strong 554.86 - 573.45 :S Sulphide, Pervasiv Pervasive, PEV Weak 554.86 - 573.45 :SR Sericite, Pervasiv Pervasive, STG Strong **Minor Interval:** 573.45 - 577.8 SLTST, Siltstone This interval is a dark to medium gray to greenish white fine grained siltstone. The rock is composed of fine amphibole in a matrix of finer amphibole and feldspathoid. Minor coarser beds of sandstone occur. Regional metamorphism is lower to middle greenschist.The rock has been intensely pervasively altered. **Mineralization** 573.45 - 577.80 : ASP Arsenopyrite, Diss Disseminated, 0.25% 573.45 - 577.80 : PY Pyrite, Blb Blebs, 2% 573.45 - 577.80 : PY Pyrite, Diss Disseminated, 2% **Alteration** 573.45 - 577.80 :CA Carbonate, Pervasiv Pervasive, STG Strong 573.45 - 577.80 :F Fuchsite, Pervasiv Pervasive, PEV Weak 573.45 - 577.80 :S Sulphide, Pervasiv Pervasive, PEV Weak 573.45 - 577.80 :SI Silica, Pervasiv Pervasive, STG Strong 573.45 - 577.80 :SR Sericite, Pervasiv Pervasive, STG Strong								

Hole Number: **ESO-06-12**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 577.8 - 589.73 PBCONG, Pebble conglomerate This interval has pebble conglomerate layers mixed in with finer sedimentary units. There are a few thin siltstone units mixed with units of silt to sand matrix with small pebbles. The porosity of the unit appears high and the entire unit is sericitically altered. Sericite development is moderate with common quartz/carbonate veining. The quartz/carbonate/sericite alteration and quartz/carbonate/sericite veining varies in intensity to the bottom of this interval. Sulfidization is moderate with 1-2% pyrite mainly as blebs around diffuse quartz/ankerite veins and following some more receptive beds. Some of the coarser pyrite blebs are cubic. Trace amounts of very fine grained arsenopyrite and fuchsite are widely disseminated **Mineralization** 577.80 - 589.73 : ASP Arsenopyrite, Diss Disseminated, 0.25% 577.80 - 589.73 : PY Pyrite, Blb Blebs, 2% 577.80 - 589.73 : PY Pyrite, Diss Disseminated, 2% **Alteration** 577.80 - 589.73 :CA Carbonate, Pervasiv Pervasive, STG Strong 577.80 - 589.73 :F Fuchsite, Pervasiv Pervasive, PEV Weak 577.80 - 589.73 :S Sulphide, Pervasiv Pervasive, PEV Weak 577.80 - 589.73 :SI Silica, Pervasiv Pervasive, STG Strong 577.80 - 589.73 :SR Sericite, Pervasiv Pervasive, STG Strong **Minor Interval:** 589.73 - 596.73 ARG, Argillite Black to dark gray toblack fine grained argillite. The rock is composed primarily of fine grained quartz grains in a finer grained amphibole and sericite matrix. The unit is thinly bedded and cuts at 10* to 15* degrees from the core axis except in folded areas where bedding flattens and is parallel to core axis. The bedding shows commom soft sediment defirmation and at least 2 directions of fabric orientation. The interval has been metamorphosed to greenschist facies. The rock has been intensely pervasively altered. **Mineralization** 589.73 - 596.73 : ASP Arsenopyrite, Diss Disseminated, 0.25% 589.73 - 596.73 : PY Pyrite, Blb Blebs, 2% 589.73 - 596.73 : PY Pyrite, Diss Disseminated, 2% **Alteration** 589.73 - 596.73 :CA Carbonate, Pervasiv Pervasive, STG Strong 589.73 - 596.73 :F Fuchsite, Pervasiv Pervasive, PEV Weak 589.73 - 596.73 :SI Silica, Pervasiv Pervasive, STG Strong 589.73 - 596.73 :SR Sericite, Pervasiv Pervasive, STG Strong 589.73 - 596.73 :S Sulphide, Pervasiv Pervasive, PEV Weak								

Hole Number: **ESO-06-12**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 596.73 - 602 SLTST, Siltstone This interval is a dark to medium gray to greenish white fine grained siltstone. The rock is composed of fine amphibole in a matrix of finer amphibole and feldspathoid. Minor coarser beds of sandstone occur. Regional metamorphism is lower to middle greenschist.The rock has been intensely pervasively altered. **Mineralization** 596.73 - 602.00 : ASP Arsenopyrite, Diss Disseminated, 0.25% 596.73 - 602.00 : PY Pyrite, Diss Disseminated, 2% 596.73 - 602.00 : PY Pyrite, Blb Blebs, 2% **Alteration** 596.73 - 602.00 :CA Carbonate, Pervasiv Pervasive, STG Strong 596.73 - 602.00 :F Fuchsite, Pervasiv Pervasive, PEV Weak 596.73 - 602.00 :S Sulphide, Pervasiv Pervasive, PEV Weak 596.73 - 602.00 :SI Silica, Pervasiv Pervasive, STG Strong 596.73 - 602.00 :SR Sericite, Pervasiv Pervasive, PEV Weak							

Samples

Sample Number	From	To	Au gpt	Ag ppm	Zn ppm	Cu ppm
Sample Type **ASSAY**						
30119	41.00	42.00				
30120	42.00	43.50				
30121	43.50	45.00				
30122	45.00	46.00				
30123	46.00	47.00				
30124	47.00	48.00				
30126	48.00	49.00				
30127	49.00	50.00				
30128	50.00	51.00				
30129	51.00	52.00				
30130	52.00	52.87				
30131	52.87	54.00				
30132	54.00	55.00				
30133	55.00	55.64				
30134	55.64	56.00				
30136	56.00	57.00				
30137	57.00	57.79				
30138	57.79	59.05				
30139	59.05	60.00				
30140	60.00	60.63				

Hole Number: **ESO-06-12**

Units: METRIC

Samples

Sample Number	From	To	Au gpt	Ag ppm	Zn ppm	Cu ppm
Sample Type **ASSAY**						
30141	60.63	61.43				
30142	61.43	61.76				
30143	61.76	62.75				
30144	62.75	64.00				
30146	64.00	64.87				
30147	64.87	66.00				
30148	66.00	67.06				
30149	67.06	68.00				
30150	68.00	69.00				
30151	69.00	70.00				
30152	70.00	71.00				
30153	71.00	72.00				
30154	72.00	73.00				
30156	73.00	74.00				
30157	74.00	75.00				
30158	75.00	76.00				
30159	76.00	77.00				
30160	77.00	78.00				
30161	78.00	79.00				
30162	79.00	80.00				
30163	80.00	81.00				
30164	81.00	82.00				
30166	82.00	83.00				
30167	83.00	84.00				
30168	84.00	85.00				
30169	85.00	86.00				
30170	86.00	87.00				
30171	87.00	88.00				
30172	88.00	89.00				
30173	89.00	90.00				
30174	90.00	91.50				
30176	91.50	93.00				
30177	93.00	94.00				
30178	94.00	94.40				
30179	94.40	94.80				
30180	94.80	96.00				
30181	96.00	97.00				
30182	97.00	98.00				

Hole Number: **ESO-06-12**

Units: METRIC

Samples

Sample Number	From	To	Au gpt	Ag ppm	Zn ppm	Cu ppm
Sample Type **ASSAY**						
30183	98.00	99.00				
30184	189.00	190.50				
30186	190.50	192.00				
30187	192.00	193.00				
30188	193.00	194.00				
30189	194.00	195.00				
30190	195.00	195.62				
30191	195.62	196.00				
30192	196.00	197.00				
30193	197.00	198.00				
30194	198.00	199.00				
30196	199.00	199.63				
30197	199.63	200.30				
30198	200.30	201.10				
30199	201.10	202.45				
30200	202.45	202.70				
30201	202.70	203.92				
30202	203.92	204.30				
30203	204.30	205.10				
30204	205.10	205.87				
30206	205.87	206.97				
30207	206.97	208.00				
30208	208.00	209.10				
30209	209.10	210.45				
30210	210.45	211.62				
30211	211.62	212.78				
30212	212.78	213.66				
30213	213.66	214.64				
30214	214.64	215.10				
30216	215.10	216.00				
30217	216.00	217.00				
30218	217.00	218.00				
30219	218.00	219.00				
30220	219.00	220.50				
30221	247.50	249.00				
30222	249.00	250.00				
30223	250.00	250.62				
30224	250.62	252.00				

Hole Number: **ESO-06-12**

Units: METRIC

Samples

Sample Number	From	To	Au gpt	Ag ppm	Zn ppm	Cu ppm
Sample Type **ASSAY**						
30226	282.10	283.60				
30227	283.60	284.60				
30228	284.60	285.16				
30229	285.16	286.00				
30230	286.00	287.00				
30231	287.00	288.00				
30232	328.50	330.00				
30233	330.00	331.00				
30234	331.00	332.50				
30236	506.00	507.45				
30237	507.45	508.00				
30238	508.00	509.00				
30239	509.00	510.00				
30240	510.00	511.00				
30241	511.00	512.00				
30242	512.00	513.00				
30243	513.00	514.00				
30244	514.00	515.00				
30246	515.00	515.90				
30247	515.90	517.00				
30248	517.00	518.00				
30249	518.00	519.00				
30250	519.00	520.00				
30251	520.00	521.00				
30252	521.00	522.00				
30253	522.00	523.00				
30254	523.00	524.00				
30256	524.00	525.00				
30257	525.00	526.00				
30258	526.00	527.00				
30259	527.00	527.40				
30260	527.40	528.00				
30261	528.00	529.00				
30262	529.00	530.00				
30263	530.00	531.00				
30264	531.00	532.00				
30266	532.00	533.00				
30267	533.00	534.00				

Hole Number: **ESO-06-12**

Units: METRIC

Samples

Sample Number	From	To	Au gpt	Ag ppm	Zn ppm	Cu ppm
Sample Type **ASSAY**						
30268	534.00	535.00				
30269	535.00	536.00				
30270	536.00	537.00				
30271	537.00	538.00				
30272	538.00	539.00				
30273	539.00	540.00				
30274	540.00	541.25				
30276	541.25	542.00				
30277	542.00	543.00				
30278	543.00	544.00				
30279	544.00	544.90				
30280	544.90	546.00				
30281	546.00	547.00				
30282	547.00	548.00				
30283	548.00	549.00				
30284	549.00	550.00				
30286	550.00	551.00				
30287	551.00	552.00				
30288	552.00	553.00				
30289	553.00	554.00				
30290	554.00	554.86				
30291	554.86	556.00				
30292	556.00	557.00				
30293	557.00	558.00				
30294	558.00	559.00				
30296	559.00	560.00				
30297	560.00	561.00				
30298	561.00	562.00				
30299	562.00	563.00				
30300	563.00	564.00				
30301	564.00	565.00				
30302	565.00	566.00				
30303	566.00	567.00				
30304	567.00	568.00				
30306	568.00	569.00				
30307	569.00	570.00				
30308	570.00	571.00				
30309	571.00	572.00				

Hole Number: **ESO-06-12**

Units: METRIC

Samples

Sample Number	From	To	Au gpt	Ag ppm	Zn ppm	Cu ppm
Sample Type **ASSAY**						
30310	572.00	573.00				
30311	573.00	573.45				
30312	573.45	574.00				
30313	574.00	575.00				
30314	575.00	576.00				
30316	576.00	577.00				
30317	577.00	578.00				
30318	578.00	579.00				
30319	579.00	580.00				
30320	580.00	581.00				
30321	581.00	582.00				
30322	582.00	583.00				
30323	583.00	584.00				
30324	584.00	585.00				
30326	585.00	586.00				
30327	586.00	587.00				
30328	587.00	588.00				
30329	588.00	589.00				
30330	589.00	589.73				
30331	589.73	591.00				
30332	591.00	592.00				
30333	592.00	593.00				
30334	593.00	594.00				
30336	594.00	595.00				
30337	595.00	596.00				
30338	596.00	596.73				
30339	596.73	598.00				
30340	598.00	599.00				
30341	599.00	600.00				
30342	600.00	601.00				
30343	601.00	602.00				

DETAILED LOG

Hole Number: **ESO-06-13**

Units: METRIC

Project Name:	Mikwam	Primary Coordinates	Grid: UTM:		Destination Coordinates	Grid: LOCAL:	Collar Dip: -52.50
Project Number:	ESO06-MK	North:	5483004.00		North:		Collar Az: 180.00
Location:	Surface	East:	592373.00		East:		Length: 472.83
		Elev:	272.20		Elev:		Start Depth: 0.00
Date Started:	May 28, 2006	Collar Survey: N	Plugged: N		Contractor:	Heath and Sherwood Drilling Inc.	Final Depth: 472.83
Date Completed:	Jun 01, 2006	Multishot Survey: N	Hole Size: BQ		Core Storage:	Mine Site	
		Pulse EM Survey: N	Casing: Left in Hole				

Comments:

Sample Averages

Survey Data

Depth	Azimuth Decimal	Dip Decimal	Test Type	Flag	Comments	Depth	Azimuth Decimal	Dip Decimal	Test Type	Flag	Comments
62.00	196.60	-53.40	ES	OK		**101.00**	195.10	-54.90	ES	OK	
200.00	195.50	-50.60	ES	OK		**300.00**	182.80	-40.80	ES	OK	
400.00	182.60	-30.40	ES	OK		**509.00**	188.10	-22.00	ES	OK	

Detailed Lithology

From	To	Lithology
0	53.00	**OB, Overburden** overburden not retained
53.00	61.50	**SLTST, Siltstone** This interval is a dark to medium gray to greenish gray fine grained siltstone. The rock is composed of fine amphibole in a matrix of finer amphibole and feldspathoid. The interval is mainly massive but minor finer interbeds suggest bedding fabric. Bedding fabric suggests that bedding is at moderate angles (30-50*) to the core axis. Metamorphism is lower to middle greenschist.The rock has been intensly pervasively altered. Carbonate, mainly ankerite is common and has oxidized to rusty straeks and bands. Silicification and pyritization are moderate. Mineralization appears as carbonitization, silicification, pyritization and weak quartz/carbonate veining. Ankerite / green Fe carbonate bands are dominant.

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
30344	56.00	57.50	1.50				
30346	57.50	59.00	1.50				
30347	59.00	60.50	1.50				
30348	60.50	62.00	1.50				

Hole Number: **ESO-06-13**

Units: METRIC

Detailed Lithology

From	To	Lithology
61.50	112.15	**ARG, Argillite** Dark gray to black fine grained argillite. The rock consists of fine grained amphibole in a matrix of finer amphibole. The rock is fairly soft. This may be natural or the weathering of the unit. The rock is moderately oxidized. The unit is thinly bedded with bedding cutting the core axis at angles from 40* to 45*. The interval is weakly pervasively altered and has minor quartz/carbonate/pyrite veining. The veining appears to control most of the mineralization . Small pyrite stringers are common adjacent to the veining. Some coarse cubes of pyrite are scattered through the Interval. Their location away from veining suggest metamorphic pyrite. Mineralization increases near the lower contact **Alteration** 61.50 - 112.15 :CA Carbonate, FC Fracture Controlled, MOD Moderate 61.50 - 112.15 :SI Silica, FC Fracture Controlled, MOD Moderate 61.50 - 112.15 :S Sulphide, FC Fracture Controlled, PEV Weak **RQD** 65.00 - 68.00 : 100.00 % RQD 80.00 % Core 2.40 m recovered 68.00 - 71.00 : 100.00 % RQD 87.00 % Core 2.60 m recovered 71.00 - 74.00 : 100.00 % RQD 57.00 % Core 1.70 m recovered 74.00 - 77.00 : 100.00 % RQD 65.00 % Core 1.95 m recovered 77.00 - 80.00 : 100.00 % RQD 63.00 % Core 1.90 m recovered 80.00 - 83.00 : 100.00 % RQD 97.00 % Core 2.90 m recovered 83.00 - 86.00 : 100.00 % RQD 83.00 % Core 2.50 m recovered 86.00 - 89.00 : 100.00 % RQD 87.00 % Core 2.60 m recovered 89.00 - 92.00 : 100.00 % RQD 97.00 % Core 2.90 m recovered 92.00 - 95.00 : 100.00 % RQD 67.00 % Core 2.00 m recovered 95.00 - 98.00 : 100.00 % RQD 87.00 % Core 2.60 m recovered 98.00 - 101.00 : 100.00 % RQD 97.00 % Core 2.90 m recovered 101.00 - 104.00 : 100.00 % RQD 100.00 % Core 3 m recovered 104.00 - 107.00 : 100.00 % RQD 100.00 % Core 3 m recovered

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
30349	62.00	65.00	3.00				
30350	65.00	66.50	1.50				
30351	66.50	68.00	1.50				
30352	68.00	69.50	1.50				
30353	69.50	71.00	1.50				
30354	71.00	72.50	1.50				
30356	72.50	74.00	1.50				
30357	74.00	75.50	1.50				
30358	75.50	77.00	1.50				
30359	77.00	78.50	1.50				
30360	78.50	80.00	1.50				
30361	80.00	81.00	1.00				
30362	81.00	82.00	1.00				
30363	82.00	83.00	1.00				
30364	92.00	93.50	1.50				
30366	93.50	95.00	1.50				
30367	95.00	96.50	1.50				
30368	96.50	98.00	1.50				
30369	98.00	99.50	1.50				
30370	99.50	101.00	1.50				
30371	101.00	102.50	1.50				
30372	102.50	104.00	1.50				
30373	104.00	105.50	1.50				
30374	105.50	107.00	1.50				
30376	107.00	108.50	1.50				
30377	108.50	110.00	1.50				
30378	110.00	111.00	1.00				
30379	111.00	112.16	1.16				

Hole Number: **ESO-06-13**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		RQD 107.00 - 110.00 : 100.00 % RQD 100.00 % Core 3 m recovered 110.00 - 113.00 : 100.00 % RQD 100.00 % Core 3 m recovered **MINOR INTERVALS:** **Minor Interval:** 62.2 - 65 CQV, Quartz-carbonate vein rubbly quartz/carbonate vein with sulfides partially oxidized, poor recovery /sample **Minor Interval:** 77.5 - 77.7 CQV, Quartz-carbonate vein rubbly quartz/carbonate vein with sulfides partially oxidized, poor recovery /sample **Minor Interval:** 79.6 - 79.8 CQV, Quartz-carbonate vein rubbly quartz/carbonate vein with sulfides partially oxidized, poor recovery /sample **Mineralization** 79.60 - 79.80 : ASP Arsenopyrite, Diss Disseminated, 0.5% 79.60 - 79.80 : PY Pyrite, Blb Blebs, 2% 79.60 - 79.80 : PY Pyrite, Diss Disseminated, 2% 79.60 - 79.80 : PY Pyrite, SS Stringers, 2% **Minor Interval:** 97 - 102.2 ARG, Argillite Dark gray to black fine grained argillite. The rock consists of fine grained amphibole in a matrix of finer amphibole. The rock is fairly soft. The unit is thinly bedded with bedding cutting the core axis at angles from 40* to 45*. The interval is moderately pervasively altered and has common quartz/carbonate/pyrite veining. The veining appears to control most of the mineralization . Small pyrite stringers are common adjacent to the veining. The mineralization appears to have selected more porous units within the intervals and flooded the units with quartz/carbonate. Veining is poorly defined. **Mineralization** 97.00 - 102.20 : PY Pyrite, Blb Blebs, 2% 97.00 - 102.20 : PY Pyrite, SS Stringers, 1% 97.00 - 102.20 : PY Pyrite, Diss Disseminated, 1% **Alteration** 97.00 - 102.20 :CA Carbonate, FC Fracture Controlled, MOD Moderate 97.00 - 102.20 :SI Silica, FC Fracture Controlled, MOD Moderate 97.00 - 102.20 :S Sulphide, FC Fracture Controlled, PEV Weak								

Hole Number: **ESO-06-13**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 105 - 112.15 ARG, Argillite Dark gray to black fine grained argillite. The rock consists of fine grained amphibole in a matrix of finer amphibole. The rock is fairly soft. The unit is thinly bedded with bedding cutting the core axis at angles from 40* to 45*. The interval is moderately pervasively altered and has common quartz/carbonate/pyrite veining. The veining appears to control most of the mineralization . Small pyrite stringers are common adjacent to the veining. The mineralization appears to have selected more porous units within the intervals and flooded the units with quartz/carbonate. Veining is poorly defined. The amount / intensity of mineralization increases with depth. The contact with the lower unit is strongly mineralized **Mineralization** 105.00 - 112.15 : PY Pyrite, Blb Blebs, 3% 105.00 - 112.15 : PY Pyrite, Diss Disseminated, 2% 105.00 - 112.15 : PY Pyrite, SS Stringers, 4% 105.00 - 112.15 : SPH Sphalerite, Blb Blebs, 0.1% fine orange-brown crystals 105.00 - 112.15 : ASP Arsenopyrite, Diss Disseminated, 0.5% **Alteration** 105.00 - 112.15 :SI Silica, Pervasiv Pervasive, STG Strong 105.00 - 112.15 :CA Carbonate, Pervasiv Pervasive, STG Strong 105.00 - 112.15 :SR Sericite, Pervasiv Pervasive, PEV Weak 105.00 - 112.15 :M Magnetite, Pervasiv Pervasive, MOD Moderate								

Hole Number: **ESO-06-13**

Units: METRIC

Detailed Lithology

From	To	Lithology
112.15	120.44	**SLTST, Siltstone** Light gray to greenish gray to off white fine grained siltstone. The rock is composed primarily of quartz grains in a quartz/sericite/feldspathoid matrix. What little remains of bedding fabric suggests that bedding angles cross the core axis at moderate angles (30°-50°). Folding is common due to structure and/or soft sediment deformation. The unit is nonmagnetic. Alteratin / mineralization has overprinted most structure and texture. Pervasive and vein quartz/carbonate/sulfide/sericite/fuchsite dominates. **RQD** 113.00 - 116.00 : 100.00 % RQD 100.00 % Core 3 m recovered 116.00 - 119.00 : 100.00 % RQD 100.00 % Core 3 m recovered 119.00 - 122.00 : 100.00 % RQD 100.00 % Core 3 m recovered **MINOR INTERVALS:** **Minor Interval:** 112.15 - 114.64 SLTST, Siltstone Light green fine grained siltstone. This interval has been heavily quartz/carbonate/sulfide altered . Most alteration appears bedding concordant. It has moderate poorly defined quartz/carbonate veining. Upper contact with argillite is most altered. **Mineralization** 112.15 - 114.64 : ASP Arsenopyrite, Diss Disseminated, 0.5% 112.15 - 114.64 : PY Pyrite, Blb Blebs, 3% 112.15 - 114.64 : PY Pyrite, Diss Disseminated, 2% 112.15 - 114.64 : PY Pyrite, Pat Patches, 5% 112.15 - 114.64 : PY Pyrite, Perv Pervasive, 5% 112.15 - 114.64 : SPH Sphalerite, Diss Disseminated, 0.5% small clusters of fine orange-red crystals **Alteration** 112.15 - 114.64 :CA Carbonate, Pervasiv Pervasive, INT Intense 112.15 - 114.64 :SI Silica, Pervasiv Pervasive, INT Intense 112.15 - 114.64 :SR Sericite, Pervasiv Pervasive, MOD Moderate 112.15 - 114.64 :F Fuchsite, Pervasiv Pervasive, MOD Moderate 112.15 - 114.64 :S Sulphide, Pervasiv Pervasive, MOD Moderate **Minor Interval:** 114.64 - 115.15 CQV, Quartz-carbonate vein White sugary textured quartz vein with carbonate, fuchsite, and sulfide **Mineralization** 114.64 - 115.15 : ASP Arsenopyrite, Diss Disseminated, 0.5% 114.64 - 115.15 : PY Pyrite, Blb Blebs, 3% 114.64 - 115.15 : PY Pyrite, SS Stringers, 3% 114.64 - 115.15 : PY Pyrite, Pat Patches, 5% 114.64 - 115.15 : SPH Sphalerite, Diss Disseminated, 0.25%

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
30380	112.16	113.00	0.84				
30381	113.00	114.00	1.00				
30382	114.00	114.64	0.64				
30383	114.64	115.15	0.51				
30384	115.15	116.00	0.85				
30386	116.00	117.00	1.00				
30387	117.00	118.00	1.00				
30388	118.00	119.00	1.00				
30389	119.00	120.00	1.00				
30390	120.00	120.44	0.44				

Hole Number: **ESO-06-13**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 115.15 - 120.44 SLTST, Siltstone Light gray to greenish gray to off white fine grained siltstone. The rock is composed primarily of quartz grains in a quartz/sericite/feldspathoid matrix. What little remains of bedding fabric suggests that bedding angles cross the core axis at moderate angles (30*-50*). Folding is common due to structure and/or soft sediment deformation. The unit is nonmagnetic. Alteratin / mineralization has overprinted some structure and texture. A second penetrating fabrc is marked by fine quartz filled hairline veinlets that are nearly perpendicular to the bedding. Pervasive and vein quartz/carbonate/sulfide/sericite/fuchsite are common. **Mineralization** 115.15 - 120.44 : PY Pyrite, Blb Blebs, 2% 115.15 - 120.44 : PY Pyrite, SS Stringers, 2% 115.15 - 120.44 : PY Pyrite, Diss Disseminated, 1% 115.15 - 120.44 : SPH Sphalerite, Diss Disseminated, 0.1% 115.15 - 120.44 : ASP Arsenopyrite, Diss Disseminated, 0.1% **Alteration** 115.15 - 120.44 :CA Carbonate, Pervasiv Pervasive, STG Strong 115.15 - 120.44 :SI Silica, Pervasiv Pervasive, STG Strong 115.15 - 120.44 :F Fuchsite, Pervasiv Pervasive, MOD Moderate 115.15 - 120.44 :SR Sericite, Pervasiv Pervasive, STG Strong 115.15 - 120.44 :S Sulphide, Pervasiv Pervasive, PEV Weak								

Hole Number: **ESO-06-13**

Units: METRIC

Detailed Lithology

From	To	Lithology
120.44	133.07	**FVOL, Felsic volcanic** Off white to light gray fine grained waterlain felsic volcanic The top of the interval is very fine grained. Midway through the interval quartz eyes appear (either a sandstone or a quartz eye felsic tuff). Below that is a quartz/feldspar porphyry tuff that appears waterlain with interbedded light gren siltstone At the bottom it grades back into a siltstone then into argillite. Alteration masks / alters the appearance of most textures. **Mineralization** 120.44 - 133.07 : ASP Arsenopyrite, Diss Disseminated, 0.1% 120.44 - 133.07 : PY Pyrite, Blb Blebs, 2% 120.44 - 133.07 : PY Pyrite, Diss Disseminated, 2% 120.44 - 133.07 : PY Pyrite, SS Stringers, 1% 120.44 - 133.07 : SPH Sphalerite, Diss Disseminated, 0.1% **Alteration** 120.44 - 133.07 :CA Carbonate, Pervasiv Pervasive, INT Intense 120.44 - 133.07 :SI Silica, Pervasiv Pervasive, INT Intense 120.44 - 133.07 :F Fuchsite, Pervasiv Pervasive, MOD Moderate 120.44 - 133.07 :SI Silica, Pervasiv Pervasive, STG Strong 120.44 - 133.07 :S Sulphide, Pervasiv Pervasive, PEV Weak **RQD** 122.00 - 125.00 : 100.00 % RQD 100.00 % Core 3 m recovered 125.00 - 128.00 : 100.00 % RQD 100.00 % Core 3 m recovered 128.00 - 131.00 : 100.00 % RQD 100.00 % Core 3 m recovered 131.00 - 134.00 : 100.00 % RQD 100.00 % Core 3 m recovered

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
30391	120.44	121.00	0.56				
30392	121.00	122.00	1.00				
30393	122.00	123.00	1.00				
30394	123.00	124.00	1.00				
30396	124.00	125.00	1.00				
30397	125.00	126.00	1.00				
30398	126.00	127.00	1.00				
30399	127.00	128.00	1.00				
30400	128.00	129.00	1.00				
30401	129.00	130.00	1.00				
30402	130.00	131.00	1.00				
30403	131.00	132.00	1.00				
30404	132.00	133.07	1.07				

Hole Number: **ESO-06-13**

Units: METRIC

Detailed Lithology

From	To	Lithology
133.07	231.97	**ARG, Argillite** Dark gray to black fine grained argillite. The rock consists of fine grained amphibole in a matrix of finer amphibole. The unit is thinly bedded with bedding cutting the core axis at angles from 40* to 45*. The upper contact is graditional from siltstone. Pervasive mineralization is strongest in the siltstone.The interval has common quartz/carbonate/pyrite veining. The veining appears to control most of the mineralization but some areas of intense veining are also pervasively altered. Small pyrite stringers are common adjacent to the veining. **RQD** 134.00 - 137.00 : 100.00 % RQD 100.00 % Core 3 m recovered 137.00 - 140.00 : 100.00 % RQD 100.00 % Core 3 m recovered 140.00 - 143.00 : 100.00 % RQD 100.00 % Core 3 m recovered 143.00 - 146.00 : 100.00 % RQD 100.00 % Core 3 m recovered 146.00 - 149.00 : 100.00 % RQD 93.00 % Core 2.80 m recovered 149.00 - 152.00 : 100.00 % RQD 95.00 % Core 2.85 m recovered 152.00 - 155.00 : 100.00 % RQD 100.00 % Core 3 m recovered 155.00 - 158.00 : 100.00 % RQD 70.00 % Core 2.10 m recovered 158.00 - 161.00 : 100.00 % RQD 97.00 % Core 2.90 m recovered 161.00 - 164.00 : 100.00 % RQD 90.00 % Core 2,70 m recovered 164.00 - 167.00 : 100.00 % RQD 100.00 % Core 3 m recovered 167.00 - 170.00 : 100.00 % RQD 100.00 % Core 3 m recovered 170.00 - 173.00 : 100.00 % RQD 100.00 % Core 3 m recovered 173.00 - 176.00 : 100.00 % RQD 100.00 % Core 3 m recovered 176.00 - 179.00 : 100.00 % RQD 83.00 % Core 2.50 m recovered 179.00 - 182.00 : 100.00 % RQD 100.00 % Core 3 m recovered 182.00 - 185.00 : 100.00 % RQD 93.00 % Core 2.80 m recovered 185.00 - 188.00 : 100.00 % RQD 100.00 % Core 3 m recovered

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
30406	133.07	134.29	1.22				
30407	134.29	135.50	1.21				
30408	135.50	136.50	1.00				
30409	136.50	137.15	0.65				
30410	137.15	138.30	1.15				
30411	138.30	139.10	0.80				
30412	139.10	140.00	0.90				
30413	140.00	141.00	1.00				
30414	141.00	142.00	1.00				
30416	142.00	143.27	1.27				
30417	143.27	144.00	0.73				
30418	144.00	145.00	1.00				
30419	145.00	146.00	1.00				
30420	146.00	147.50	1.50				
30421	147.50	149.00	1.50				
30422	149.00	150.00	1.00				
30423	150.00	151.00	1.00				
30424	151.00	152.00	1.00				
30426	152.00	153.00	1.00				
30427	153.00	154.00	1.00				
30428	154.00	155.00	1.00				
30429	155.00	156.50	1.50				
30430	156.50	158.00	1.50				
30431	158.00	159.00	1.00				
30432	159.00	160.00	1.00				
30433	160.00	161.00	1.00				
30434	161.00	161.68	0.68				
30436	161.68	162.36	0.68				
30437	162.36	162.95	0.59				
30438	162.95	164.00	1.05				
30439	164.00	165.00	1.00				
30440	165.00	166.00	1.00				
30441	166.00	167.00	1.00				
30442	167.00	168.00	1.00				
30443	168.00	169.00	1.00				
30444	169.00	170.00	1.00				
30446	170.00	171.00	1.00				
30447	171.00	172.00	1.00				
30448	172.00	173.00	1.00				
30449	173.00	174.00	1.00				
30450	174.00	175.00	1.00				
30451	175.00	176.00	1.00				

Hole Number: **ESO-06-13**

Units: METRIC

Detailed Lithology

From	To	Lithology
		RQD
		188.00 - 191.00 : 100.00 % RQD 100.00 % Core
		3 m recovered
		191.00 - 194.00 : 100.00 % RQD 100.00 % Core
		3 m recovered
		194.00 - 197.00 : 100.00 % RQD 100.00 % Core
		3 m recovered
		197.00 - 200.00 : 100.00 % RQD 100.00 % Core
		3 m recovered
		200.00 - 203.00 : 100.00 % RQD 100.00 % Core
		3 m recovered
		203.00 - 206.00 : 100.00 % RQD 100.00 % Core
		3 m recovered
		206.00 - 209.00 : 100.00 % RQD 100.00 % Core
		3 m recovered
		209.00 - 212.00 : 100.00 % RQD 100.00 % Core
		3 m recovered
		212.00 - 215.00 : 100.00 % RQD 100.00 % Core
		3 m recovered
		215.00 - 218.00 : 100.00 % RQD 100.00 % Core
		3 m recovered
		218.00 - 221.00 : 100.00 % RQD 82.00 % Core
		2.45 m recovered
		221.00 - 224.00 : 100.00 % RQD 100.00 % Core
		3 m recovered
		224.00 - 227.00 : 100.00 % RQD 100.00 % Core
		3 m recovered
		227.00 - 230.00 : 100.00 % RQD 95.00 % Core
		2.85 m recovered
		230.00 - 233.00 : 100.00 % RQD 100.00 % Core
		3 m recovered

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
30452	176.00	177.50	1.50				
30453	177.50	179.00	1.50				
30454	179.00	180.00	1.00				
30456	189.00	190.00	1.00				
30457	194.00	195.00	1.00				
30458	195.00	196.00	1.00				
30459	196.00	197.00	1.00				
30460	197.00	197.94	0.94				
30461	197.94	198.80	0.86				
30462	198.80	199.68	0.88				
30463	199.68	200.38	0.70				
30464	200.38	200.97	0.59				
30466	200.97	202.00	1.03				
30467	202.00	203.00	1.00				
30468	203.00	204.00	1.00				
30469	204.00	205.00	1.00				
30470	205.00	206.00	1.00				
30471	206.00	207.50	1.50				
30472	218.00	219.00	1.00				
30473	219.00	220.00	1.00				
30474	220.00	221.00	1.00				
30476	221.00	222.00	1.00				
30477	222.00	223.00	1.00				
30478	223.00	224.00	1.00				

Hole Number: **ESO-06-13**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 133.07 - 134.29 SLTST, Siltstone Light gray to greenish gray to off white fine grained siltstone. The rock is composed primarily of quartz grains in a quartz/sericite/feldspathoid matrix. The unit is nonmagnetic. Alteratin / mineralization has overprinted most structure and texture. A second penetrating fabric is marked by fine quartz filled hairline veinlets that are nearly perpendicular to the bedding. Pervasive and vein quartz/carbonate/sulfide/sericite/fuchsite are common. **Mineralization** 133.07 - 134.29 : ASP Arsenopyrite, Diss Disseminated, 0.25% 133.07 - 134.29 : PY Pyrite, Diss Disseminated, 2% 133.07 - 134.29 : PY Pyrite, Blb Blebs, 2% 133.07 - 134.29 : PY Pyrite, SS Stringers, 2% 133.07 - 134.29 : PY Pyrite, Pat Patches, 4% 133.07 - 134.29 : SPH Sphalerite, Diss Disseminated, 0.1% **Alteration** 133.07 - 134.29 :CA Carbonate, Pervasiv Pervasive, INT Intense 133.07 - 134.29 :SI Silica, Pervasiv Pervasive, INT Intense 133.07 - 134.29 :F Fuchsite, Pervasiv Pervasive, PEV Weak 133.07 - 134.29 :SR Sericite, Pervasiv Pervasive, MOD Moderate 133.07 - 134.29 :S Sulphide, Pervasiv Pervasive, PEV Weak								

Hole Number: **ESO-06-13**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 134.29 - 136.5 ARG, Argillite Sooty black to dark gray to light gray fine grained argillite. The rock is composed primarily of fine grained quartz grains in a finer grained amphibole and sericite matrix. The unit is thinly bedded and cuts at 40* to 45* degrees from the core axis except in folded areas where bedding flattens and is parallel to core axis. About 136.5 the bedding bends over to 10* to parallel to the core axis. It maintains the near parallel to the core axis orientation into the next interval. A second penetrating pattern is defined by fine quartz filled fractures that are nearly perpendicular to the core.The zone is marked by few quartz/carbonate veins. The rock is nonmagnetic.The rock has been weakly pervasively altered. Sericite is common. Silicification and pyritization are weak. Mineralization appears weakly as sericitization, silicification, weak quartz/carbonate veining. Pyrite apppears in the stronger silicified zones. **Mineralization** 134.29 - 136.50 : ASP Arsenopyrite, Diss Disseminated, 0.1% 134.29 - 136.50 : PY Pyrite, Blb Blebs, 2% 134.29 - 136.50 : PY Pyrite, Diss Disseminated, 2% 134.29 - 136.50 : PY Pyrite, SS Stringers, 2% **Alteration** 134.29 - 136.50 :CA Carbonate, FC Fracture Controlled, MOD Moderate 134.29 - 136.50 :SI Silica, FC Fracture Controlled, MOD Moderate 134.29 - 136.50 :F Fuchsite, FC Fracture Controlled, PEV Weak 134.29 - 136.50 :S Sulphide, FC Fracture Controlled, PEV Weak 134.29 - 136.50 :SR Sericite, FC Fracture Controlled, MOD Moderate								

Hole Number: **ESO-06-13**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 136.5 - 139.1 ARG, Argillite Sooty black to dark gray to light gray fine grained argillite. The rock is composed primarily of fine grained quartz grains in a finer grained amphibole and sericite matrix. The unit is thinly bedded and cuts at 40* to 45* degrees from the core axis except in folded areas where bedding flattens and is parallel to core axis. About 136.5 the bedding bends over to 10* to parallel to the core axis. This fold is marked by strong quartz/carbonate veining mainly concordant with veining. A second penetrating pattern is defined by fine quartz filled fractures that are nearly perpendicular to the core. The rock has been moderately pervasively altered. Sericite is common. Silicification and pyritization are common. Mineralization appears as sericitization, silicification, and quartz/carbonate veining. Pyrite apppears in the stronger silicified zones. **Mineralization** 136.50 - 139.10 : PY Pyrite, Diss Disseminated, 2% 136.50 - 139.10 : PY Pyrite, Blb Blebs, 2% 136.50 - 139.10 : PY Pyrite, SS Stringers, 3% 136.50 - 139.10 : ASP Arsenopyrite, Diss Disseminated, 0.1% **Alteration** 136.50 - 139.10 :CA Carbonate, FC Fracture Controlled, STG Strong 136.50 - 139.10 :SI Silica, FC Fracture Controlled, STG Strong 136.50 - 139.10 :SR Sericite, FC Fracture Controlled, MOD Moderate 136.50 - 139.10 :F Fuchsite, FC Fracture Controlled, PEV Weak 136.50 - 139.10 :S Sulphide, FC Fracture Controlled, PEV Weak								

Hole Number: **ESO-06-13**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 139.1 - 143.27 ARG, Argillite Sooty black to dark gray to light gray fine grained argillite. The rock is composed primarily of fine grained quartz grains in a finer grained amphibole and sericite matrix. The unit is thinly bedded and cuts at 40* to 45* degrees from the core axis except in folded areas where bedding flattens and is parallel to core axis. The zone is marked by few quartz/carbonate veins. The rock is nonmagnetic.The rock has been weakly pervasively altered. Sericite is common. Silicification and pyritization are weak. Mineralization appears weakly as sericitization, silicification, weak quartz/carbonate veining. Pyrite apppears in the stronger silicified zones. **Mineralization** 139.10 - 143.27 : PY Pyrite, Diss Disseminated, 2% 139.10 - 143.27 : PY Pyrite, Blb Blebs, 2% 139.10 - 143.27 : PY Pyrite, SS Stringers, 1% **Alteration** 139.10 - 143.27 :CA Carbonate, FC Fracture Controlled, MOD Moderate 139.10 - 143.27 :SI Silica, FC Fracture Controlled, MOD Moderate 139.10 - 143.27 :F Fuchsite, FC Fracture Controlled, PEV Weak 139.10 - 143.27 :SR Sericite, FC Fracture Controlled, PEV Weak 139.10 - 143.27 :S Sulphide, FC Fracture Controlled, PEV Weak **Minor Interval:** 143.27 - 145.1 SLTST, Siltstone Light gray to greenish gray to off white fine grained siltstone. The rock is composed primarily of quartz grains in a quartz/sericite/feldspathoid matrix. The unit is nonmagnetic. Alteration / mineralization has overprinted most structure and texture. A second penetrating fabric is marked by fine quartz filled hairline veinlets that are nearly perpendicular to the bedding. Pervasive and vein quartz/carbonate/sulfide/sericite/fuchsite are common. **Mineralization** 143.27 - 145.10 : ASP Arsenopyrite, Diss Disseminated, 0.5% 143.27 - 145.10 : PY Pyrite, Blb Blebs, 2% 143.27 - 145.10 : PY Pyrite, Diss Disseminated, 1% 143.27 - 145.10 : PY Pyrite, SS Stringers, 3% 143.27 - 145.10 : PY Pyrite, Pat Patches, 2% 143.27 - 145.10 : SPH Sphalerite, Diss Disseminated, 0.1% **Alteration** 143.27 - 145.10 :CA Carbonate, Pervasiv Pervasive, INT Intense 143.27 - 145.10 :SI Silica, Pervasiv Pervasive, INT Intense 143.27 - 145.10 :F Fuchsite, Pervasiv Pervasive, MOD Moderate 143.27 - 145.10 :SR Sericite, Pervasiv Pervasive, STG Strong 143.27 - 145.10 :S Sulphide, Pervasiv Pervasive, MOD Moderate								

Hole Number: **ESO-06-13**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 145.1 - 149 ARG, Argillite Sooty black to dark gray to light gray fine grained argillite. The rock is composed primarily of fine grained quartz grains in a finer grained amphibole and sericite matrix. The unit is thinly bedded and cuts at 40* to 45* degrees from the core axis. The zone is marked by few quartz/carbonate veins. The rock is nonmagnetic.The rock has been weakly pervasively altered. Sericite is common. Silicification and pyritization are weak. Mineralization appears weakly as sericitization, silicification, weak quartz/carbonate veining. Pyrite apppears in the stronger silicified zones. **Minor Interval:** 149 - 155 ARG, Argillite Sooty black to dark gray to light gray fine grained argillite. The rock is composed primarily of fine grained quartz grains in a finer grained amphibole and sericite matrix. The unit is thinly bedded and cuts at 40* to 45* degrees from the core axis. A second penetrating pattern is defined by fine quartz filled fractures and intense sericitization.that are nearly perpendicular to the core.The zone is marked by strong quartz/carbonate/sulfide veining. The rock is nonmagnetic.The rock has been pervasively altered. Sericite is common. Silicification and pyritization are moderate. Mineralization appears as sericitization, silicification, quartz/carbonate veining. Pyrite apppears in the stronger silicified zones. **Mineralization** 149.00 - 155.00 : ASP Arsenopyrite, Diss Disseminated, 0.1% 149.00 - 155.00 : PY Pyrite, Diss Disseminated, 2% 149.00 - 155.00 : PY Pyrite, Blb Blebs, 2% 149.00 - 155.00 : PY Pyrite, SS Stringers, 2% 149.00 - 155.00 : SPH Sphalerite, Diss Disseminated, 0.05% **Alteration** 149.00 - 155.00 :F Fuchsite, FC Fracture Controlled, PEV Weak 149.00 - 155.00 :S Sulphide, FC Fracture Controlled, PEV Weak 149.00 - 155.00 :SR Sericite, FC Fracture Controlled, MOD Moderate 149.00 - 155.00 :CA Carbonate, FC Fracture Controlled, MOD Moderate 149.00 - 155.00 :SI Silica, FC Fracture Controlled, MOD Moderate								

Hole Number: **ESO-06-13**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 155 - 158 CQV, Quartz-carbonate vein This interval is broken out because of poor recovery of a quartz/carbonate vein with strong sulfide. Core recovery in this section was 70% (2.1 m for a 3 m run). In this interval strongly mineralized argillite and a sulfide rich quartz/carbonate vein were recovered. How much of which was lost is unknown. Sample was divided to the middle of the interval, ie 1.05 m per sample. The interval included a late brecciation / vein cement of tan carbonate with sulfides. Rough percentages for the interval is about 60% quartz/carbonate vein and 40% silicified carbonitized argillite. **Texture** 155.00 - 158.00 : B Breccia recent breccia/cement **Mineralization** 155.00 - 158.00 : ASP Arsenopyrite, Diss Disseminated, 0.1% possible associated with blebs of pyrite 155.00 - 158.00 : PY Pyrite, Blb Blebs, 3% 155.00 - 158.00 : PY Pyrite, Diss Disseminated, 2% 155.00 - 158.00 : PY Pyrite, SS Stringers, 5% 155.00 - 158.00 : PY Pyrite, Pat Patches, 5% 155.00 - 158.00 : PY Pyrite, Len Lenses, 5% **Alteration** 155.00 - 158.00 :CA Carbonate, Pervasiv Pervasive, INT Intense 155.00 - 158.00 :SI Silica, Pervasiv Pervasive, INT Intense 155.00 - 158.00 :F Fuchsite, Pervasiv Pervasive, MOD Moderate 155.00 - 158.00 :S Sulphide, Pervasiv Pervasive, STG Strong 155.00 - 158.00 :SR Sericite, Pervasiv Pervasive, STG Strong								

Hole Number: **ESO-06-13**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 158 - 162.36 ARG, Argillite Sooty black to dark gray to light gray fine grained argillite. The rock is composed primarily of fine grained quartz grains in a finer grained amphibole and sericite matrix. The unit is thinly bedded and cuts at 40* to 45* degrees from the core axis except in folded areas where bedding flattens and is parallel to core axis. The zone is marked by common quartz/carbonate veins. The rock is nonmagnetic.The rock has been pervasively altered. Sericite is common. Silicification and pyritization are common. Mineralization appears surrounding minor quartz/carbonate veining as sericitization, silicification, and sulfidization. **Mineralization** 158.00 - 162.36 : PY Pyrite, Blb Blebs, 2% 158.00 - 162.36 : PY Pyrite, Diss Disseminated, 2% 158.00 - 162.36 : PY Pyrite, SS Stringers, 2% **Alteration** 158.00 - 162.36 :CA Carbonate, FC Fracture Controlled, STG Strong 158.00 - 162.36 :F Fuchsite, FC Fracture Controlled, PEV Weak 158.00 - 162.36 :S Sulphide, FC Fracture Controlled, PEV Weak 158.00 - 162.36 :SR Sericite, FC Fracture Controlled, PEV Weak 158.00 - 162.36 :SI Silica, FC Fracture Controlled, MOD Moderate **Minor Interval:** 162.36 - 162.95 CQV, Quartz-carbonate vein White sugary textured quartz/carbonate vein with heavy sulfide. **Mineralization** 162.36 - 162.95 : PY Pyrite, Blb Blebs, 5% 162.36 - 162.95 : PY Pyrite, Pat Patches, 5% 162.36 - 162.95 : PY Pyrite, SS Stringers, 5% 162.36 - 162.95 : PY Pyrite, Diss Disseminated, 2%								

Hole Number: **ESO-06-13**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 162.95 - 167 ARG, Argillite Sooty black to dark gray to light gray fine grained argillite. The rock is composed primarily of fine grained quartz grains in a finer grained amphibole and sericite matrix. The unit is thinly bedded and cuts at 40* to 45* degrees from the core axis except in folded areas where bedding flattens and is parallel to core axis. The rock is nonmagnetic. The zone is marked by few quartz/carbonate veins. The rock has been strongly pervasively altered. Sericite is common. Silicification and pyritization are common. Dessimenated mineralization appears surrounding minor quartz/carbonate veining as sericitization, silicification, and sulfidization. **Mineralization** 162.95 - 167.00 : ASP Arsenopyrite, Diss Disseminated, 0.1% 162.95 - 167.00 : PY Pyrite, Blb Blebs, 4% 162.95 - 167.00 : PY Pyrite, Diss Disseminated, 3% 162.95 - 167.00 : PY Pyrite, SS Stringers, 3% **Alteration** 162.95 - 167.00 :CA Carbonate, Pervasiv Pervasive, MOD Moderate 162.95 - 167.00 :S Sulphide, Pervasiv Pervasive, MOD Moderate 162.95 - 167.00 :SI Silica, Pervasiv Pervasive, MOD Moderate 162.95 - 167.00 :F Fuchsite, Pervasiv Pervasive, PEV Weak 162.95 - 167.00 :SR Sericite, Pervasiv Pervasive, PEV Weak **Minor Interval:** 167 - 170 ARG, Argillite Sooty black to dark gray to light gray fine grained argillite. The rock is composed primarily of fine grained quartz grains in a finer grained amphibole and sericite matrix. The unit is thinly bedded and cuts at 40* to 45* degrees from the core axis except in folded areas where bedding flattens and is parallel to core axis. The rock is nonmagnetic. The zone is dominated by quartz/carbonate veins. The rock has been weakly pervasively altered. Sericite is common. Silicification and pyritization are common. Mineralization appears surrounding minor quartz/carbonate veining as sericitization, silicification, and sulfidization. **Mineralization** 167.00 - 170.00 : PY Pyrite, Blb Blebs, 2% 167.00 - 170.00 : PY Pyrite, Diss Disseminated, 1% **Alteration** 167.00 - 170.00 :CA Carbonate, FC Fracture Controlled, STG Strong 167.00 - 170.00 :SI Silica, FC Fracture Controlled, PEV Weak 167.00 - 170.00 :SR Sericite, FC Fracture Controlled, PEV Weak								

Hole Number: **ESO-06-13**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 170 - 171.5 ARG, Argillite Sooty black to dark gray to light gray fine grained argillite. The rock is composed primarily of fine grained quartz grains in a finer grained amphibole and sericite matrix. The unit is thinly bedded and cuts at 40* to 45* degrees from the core axis except in folded areas where bedding flattens and is parallel to core axis. The rock is nonmagnetic. The zone has weak quartz/carbonate veins. The rock has been pervasively altered along a second penetrating fabric that is perpendicular to the bedding fabric. This fabric appears associated with a fold nose. Sericitization appears to dominate the second fabric. Silicification and pyritization are common. **Mineralization** 170.00 - 171.50 : PY Pyrite, Blb Blebs, 2% 170.00 - 171.50 : PY Pyrite, Diss Disseminated, 2% **Alteration** 170.00 - 171.50 :SR Sericite, Pervasiv Pervasive, STG Strong 170.00 - 171.50 :CA Carbonate, Pervasiv Pervasive, PEV Weak 170.00 - 171.50 :SI Silica, Pervasiv Pervasive, MOD Moderate **Minor Interval:** 171.5 - 173 ARG, Argillite Sooty black to dark gray to light gray fine grained argillite. The rock is composed primarily of fine grained quartz grains in a finer grained amphibole and sericite matrix. The unit is thinly bedded and cuts at 40* to 45* degrees from the core axis except in folded areas where bedding flattens and is parallel to core axis. The rock is nonmagnetic. The zone is marked by common quartz/carbonate veins. Sericite is common. Silicification and weak pyritization are common. Mineralization appears surrounding quartz/carbonate veining as sericitization, silicification, and sulfidization. **Mineralization** 171.50 - 173.00 : PY Pyrite, Blb Blebs, 2% 171.50 - 173.00 : PY Pyrite, Diss Disseminated, 1% **Alteration** 171.50 - 173.00 :CA Carbonate, FC Fracture Controlled, STG Strong 171.50 - 173.00 :SI Silica, FC Fracture Controlled, PEV Weak 171.50 - 173.00 :SR Sericite, FC Fracture Controlled, PEV Weak 171.50 - 173.00 :S Sulphide, FC Fracture Controlled, PEV Weak								

Hole Number: **ESO-06-13**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 173 - 175 ARG, Argillite Sooty black to dark gray to light gray fine grained argillite. The rock is composed primarily of fine grained quartz grains in a finer grained amphibole and sericite matrix. The unit is thinly bedded and cuts at 40* to 45* degrees from the core axis except in folded areas where bedding flattens and is parallel to core axis. The rock is nonmagnetic. The zone has weak quartz/carbonate veins. The rock has been pervasively altered along a second penetrating fabric that is perpendicular to the bedding fabric. This fabric appears associated with a fold nose. Sericitization appears to dominate the second fabric. Silicification and pyritization are common. **Mineralization** 173.00 - 175.00 : PY Pyrite, Diss Disseminated, 2% 173.00 - 175.00 : PY Pyrite, Blb Blebs, 1% **Alteration** 173.00 - 175.00 :CA Carbonate, Pervasiv Pervasive, PEV Weak 173.00 - 175.00 :SI Silica, Pervasiv Pervasive, MOD Moderate 173.00 - 175.00 :SR Sericite, Pervasiv Pervasive, MOD Moderate **Minor Interval:** 175 - 179.5 ARG, Argillite Sooty black to dark gray to light gray fine grained argillite. The rock is composed primarily of fine grained quartz grains in a finer grained amphibole and sericite matrix. The unit is thinly bedded and cuts at 40* to 45* degrees from the core axis except in folded areas where bedding flattens and is parallel to core axis. The rock is nonmagnetic. The zone is marked by common quartz/carbonate veins that are concordat with bedding. Sericite is common. Silicification and weak pyritization are common. Mineralization appears surrounding quartz/carbonate veining as sericitization, silicification, and sulfidization. The alteration weakens with depth. **Mineralization** 175.00 - 179.50 : PY Pyrite, Diss Disseminated, 1% 175.00 - 179.50 : PY Pyrite, Blb Blebs, 1% **Alteration** 175.00 - 179.50 :CA Carbonate, FC Fracture Controlled, PEV Weak **Minor Interval:** 179.5 - 191 ARG, Argillite Dark gray to black fine grained argillite. The rock consists of fine grained amphibole in a matrix of finer amphibole. The unit is thinly bedded with bedding cutting the core axis at angles from 40* to 45*. The interval has common weak quartz/carbonate/pyrite veining concordant with bedding. Metamorphism is greenschist. Alteration is weak.								

Hole Number: **ESO-06-13**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 191 - 196 ARG, Argillite Sooty black to dark gray to light gray fine grained argillite. The rock is composed primarily of fine grained quartz grains in a finer grained amphibole and sericite matrix. The unit is thinly bedded and cuts at 40* to 45* degrees from the core axis.The rock is nonmagnetic. The zone is marked by increasingly frequent quartz/carbonate veins. The amount of veining increases with depth. Lower contact is a fault zone. **Mineralization** 191.00 - 196.00 191.00 - 196.00 : PY Pyrite, Blb Blebs, 2% 191.00 - 196.00 : PY Pyrite, SS Stringers, 2% **Alteration** 191.00 - 196.00 :CA Carbonate, FC Fracture Controlled, STG Strong 191.00 - 196.00 :SI Silica, FC Fracture Controlled, MOD Moderate 191.00 - 196.00 :SR Sericite, FC Fracture Controlled, PEV Weak 191.00 - 196.00 :S Sulphide, FC Fracture Controlled, PEV Weak **Minor Interval:** 196 - 197.94 FZ, Fault zone very rubbly broken core. common graphitic partings, quartz/carbonate material cementing fragments and in vein strong sulfides with the vein material **Mineralization** 196.00 - 197.94 : PY Pyrite, Blb Blebs, 2% 196.00 - 197.94 : PY Pyrite, SS Stringers, 2% 196.00 - 197.94 : PY Pyrite, Diss Disseminated, 1% **Minor Interval:** 197.94 - 199.68 ARG, Argillite Black to dark gray to light gray fine grained argillite. The rock is composed primarily of fine grained quartz grains in a finer grained amphibole and sericite matrix. The unit is thinly bedded and cuts at 40* to 45* degrees from the core axis. The rock is nonmagnetic. The zone is dominated by quartz/carbonate veins. The rock has been weakly pervasively altered. Sericite is common. Silicification and pyritization are common. Mineralization appears surrounding quartz/carbonate veining as sericitization, silicification, and sulfidization. **Mineralization** 197.94 - 199.68 : PY Pyrite, Blb Blebs, 2% 197.94 - 199.68 : PY Pyrite, Diss Disseminated, 1% **Alteration** 197.94 - 199.68 :CA Carbonate, FC Fracture Controlled, MOD Moderate 197.94 - 199.68 :SI Silica, FC Fracture Controlled, PEV Weak								

Hole Number: **ESO-06-13**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 199.68 - 200.38 CQV, Quartz-carbonate vein White sugary textured quartz/carbonate vein with sulfide. **Mineralization** 199.68 - 200.38 : ASP Arsenopyrite, Diss Disseminated, 0.1% 199.68 - 200.38 : PY Pyrite, Blb Blebs, 3% 199.68 - 200.38 : PY Pyrite, Diss Disseminated, 2% 199.68 - 200.38 : PY Pyrite, SS Stringers, 2% **Minor Interval:** 200.38 - 200.97 ARG, Argillite Black to dark gray to light gray fine grained argillite. The rock is composed primarily of fine grained quartz grains in a finer grained amphibole and sericite matrix. The unit is thinly bedded and cuts at 40* to 45* degrees from the core axis. The rock is nonmagnetic. The zone is dominated by quartz/carbonate veins. The rock has been weakly pervasively altered. Sericite is common. Silicification and pyritization are common. Mineralization appears surrounding quartz/carbonate veining as sericitization, silicification, and sulfidization. **Mineralization** 200.38 - 200.97 : PY Pyrite, Blb Blebs, 2% 200.38 - 200.97 : PY Pyrite, Diss Disseminated, 1% **Alteration** 200.38 - 200.97 :CA Carbonate, FC Fracture Controlled, MOD Moderate 200.38 - 200.97 :SI Silica, FC Fracture Controlled, PEV Weak 200.38 - 200.97 :S Sulphide, FC Fracture Controlled, PEV Weak **Minor Interval:** 200.97 - 203 ARG, Argillite Dark gray to black fine grained argillite. The rock consists of fine grained amphibole in a matrix of finer amphibole. The unit is thinly bedded with bedding cutting the core axis at angles from 40* to 45*. The interval has common weak quartz/carbonate/pyrite veining concordant with bedding. Metamorphism is greenschist. Alteration is weak.								

Hole Number: **ESO-06-13**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 203 - 210.3 ARG, Argillite Black to dark gray to light gray fine grained argillite. The rock is composed primarily of fine grained quartz grains in a finer grained amphibole and sericite matrix. The unit is thinly bedded and cuts at 40* to 45* degrees from the core axis. The rock is nonmagnetic. The zone is dominated by quartz/carbonate veins. The rock has been weakly pervasively altered. Sericite is common. Silicification and pyritization are common. Mineralization appears surrounding quartz/carbonate veining as sericitization, silicification, and sulfidization. **Mineralization** 203.00 - 210.30 : PY Pyrite, Blb Blebs, 2% 203.00 - 210.30 : PY Pyrite, Diss Disseminated, 1% **Alteration** 203.00 - 210.30 :CA Carbonate, FC Fracture Controlled, MOD Moderate 203.00 - 210.30 :SI Silica, FC Fracture Controlled, PEV Weak 203.00 - 210.30 :S Sulphide, FC Fracture Controlled, PEV Weak **Minor Interval:** 210.3 - 220 ARG, Argillite Dark gray to black fine grained argillite. The rock consists of fine grained amphibole in a matrix of finer amphibole. The unit is thinly bedded with bedding cutting the core axis at angles from 40* to 45*. The interval has common weak quartz/carbonate/pyrite veining concordant with bedding. Metamorphism is greenschist. Alteration is weak. **Minor Interval:** 220 - 220.5 FZ, Fault zone small rubbley fragments **Minor Interval:** 220.5 - 231.97 ARG, Argillite								

Hole Number: **ESO-06-13**

Units: METRIC

Detailed Lithology

From	To	Lithology
231.97	306.45	**SLTST, Siltstone** This interval is a dark to medium gray fine grained siltstone. The rock is composed of fine amphibole in a matrix of finer amphibole and feldspathoid. The interval is mainly massive but minor finer interbeds of argillite suggest bedding fabric. Several fold noses are cut by the core. Bedding fabric suggests that bedding is at moderate angles (30-50*) to the core axis except in areas of fold noses where the bedding flattens. Alteration is lower to middle greenschist.The rock has been weakly pervasively altered in spots. Zones with a second penetrating fabric are marked by pervasive sericitic alteration. **RQD** 233.00 - 236.00 : 100.00 % RQD 100.00 % Core 3 m recovered 236.00 - 239.00 : 100.00 % RQD 100.00 % Core 3 m recovered 239.00 - 242.00 : 100.00 % RQD 100.00 % Core 3 m recovered 242.00 - 245.00 : 100.00 % RQD 100.00 % Core 3 m recovered 245.00 - 248.00 : 100.00 % RQD 100.00 % Core 3 m recovered 248.00 - 251.00 : 100.00 % RQD 100.00 % Core 3 m recovered 251.00 - 254.00 : 100.00 % RQD 100.00 % Core 3 m recovered 254.00 - 257.00 : 100.00 % RQD 100.00 % Core 3 m recovered 257.00 - 260.00 : 100.00 % RQD 100.00 % Core 3 m recovered 260.00 - 263.00 : 100.00 % RQD 100.00 % Core 3 m recovered 263.00 - 266.00 : 100.00 % RQD 100.00 % Core 3 m recovered 266.00 - 269.00 : 100.00 % RQD 100.00 % Core 3 m recovered 269.00 - 272.00 : 100.00 % RQD 100.00 % Core 3 m recovered 272.00 - 275.00 : 100.00 % RQD 100.00 % Core 3 m recovered 275.00 - 278.00 : 100.00 % RQD 100.00 % Core 3 m recovered 278.00 - 281.00 : 100.00 % RQD 100.00 % Core 3 m recovered 281.00 - 284.00 : 100.00 % RQD 100.00 % Core 284.00 - 287.00 : 100.00 % RQD 100.00 % Core

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
30479	290.00	291.10	1.10				

Hole Number: **ESO-06-13**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		RQD 287.00 - 290.00 : 100.00 % RQD 100.00 % Core 290.00 - 293.00 : 100.00 % RQD 100.00 % Core 293.00 - 296.00 : 100.00 % RQD 100.00 % Core 296.00 - 299.00 : 100.00 % RQD 100.00 % Core 299.00 - 302.00 : 100.00 % RQD 100.00 % Core 302.00 - 305.00 : 100.00 % RQD 100.00 % Core 305.00 - 308.00 : 100.00 % RQD 100.00 % Core **MINOR INTERVALS:** **Minor Interval:** 231.97 - 245 SLTST, Siltstone This interval is a dark to medium gray fine grained siltstone. The rock is composed of fine amphibole in a matrix of finer amphibole and feldspathoid. The interval is mainly massive but minor finer interbeds of argillite suggest bedding fabric. Several fold noses are cut by the core. Bedding fabric suggests that bedding is at moderate angles (30-50*) to the core axis except in areas of fold noses where the bedding flattens. Metamorphism is lower to middle greenschist.The rock has been weakly pervasively altered in spots. Zones with a second penetrating fabric are marked by pervasive sericitic alteration. Other alteration is absent. **Minor Interval:** 245 - 247.27 ARG, Argillite Dark gray to black fine grained argillite. The rock consists of fine grained amphibole in a matrix of finer amphibole. The unit is thinly bedded with bedding cutting the core axis at angles from 40* to 45*. The interval has weak quartz/carbonate/pyrite veining mainly concordant with bedding. Alteration is weak. **Alteration** 245.00 - 247.27 :CA Carbonate, FC Fracture Controlled, PEV Weak **Minor Interval:** 247.27 - 283.57 SLTST, Siltstone This interval is a dark to medium gray fine grained siltstone. The rock is composed of fine amphibole in a matrix of finer amphibole and feldspathoid. The interval is mainly massive but minor finer interbeds of argillite suggest bedding fabric. Several fold noses are cut by the core. Bedding fabric suggests that bedding is at moderate angles (30-50*) to the core axis except in areas of fold noses where the bedding flattens. Metamorphism is lower to middle greenschist.The rock has been weakly pervasively altered in spots. Zones with a second penetrating fabric are marked by pervasive sericitic alteration. The amount of alteration increases with depth. **Alteration** 247.27 - 283.57 :SR Sericite, Pervasiv Pervasive, PEV Weak **Minor Interval:** 283.57 - 289.55 ARG, Argillite vfg, laminated, small scale folds in core, local foliation oblique to compositional banding. v fg diss py throughout								

Hole Number: **ESO-06-13**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		MINOR INTERVALS: **Minor Interval:** 289.55 - 306.45 SLTST, Siltstone sub unit of fg grey siltsone, contains minor interval of arg., contains qtz-carb vein discordant to bedding, weak diss py locally stronger in fg unit, oca cg (.25 cm) py cubes								
306.45	335.70	**ARG, Argillite** vfg, dark grey, laminated to thinly bedded, local bedding parallel qtz-carb veinlets, no apparent suphide association with veins., common fg to vfg py locally banded, zone with higher sulphide content sampled **RQD** 308.00 - 311.00 : 100.00 % RQD 100.00 % Core 311.00 - 314.00 : 100.00 % RQD 100.00 % Core 314.00 - 317.00 : 100.00 % RQD 100.00 % Core 317.00 - 320.00 : 100.00 % RQD 100.00 % Core 320.00 - 323.00 : 100.00 % RQD 100.00 % Core 323.00 - 326.00 : 100.00 % RQD 100.00 % Core 326.00 - 329.00 : 100.00 % RQD 100.00 % Core 329.00 - 332.00 : 100.00 % RQD 100.00 % Core 332.00 - 335.00 : 100.00 % RQD 100.00 % Core 335.00 - 338.00 : 100.00 % RQD 100.00 % Core	30480	309.20	310.23	1.03				
			30481	310.23	311.00	0.77				
			30482	311.00	312.30	1.30				
			30483	312.30	312.94	0.64				
			30484	312.94	314.00	1.06				
			30486	335.62	336.75	1.13				
335.70	397.60	**ARBIF, Argillitic iron formation** sharp upper contact, banded green rock contrasts with banded grey rock, unit consists of green f.g. arg type band, magnetite bands, and grey siliceous hard chert(?) bands, magnetite bands are 10-15% of unit, small qtz-car vein with py at upper contact (5 cm), otherwise only very moinor qtz+/- cfarb eins with no sulphide ass. dom. parallel to banding but localy are v. small (1 cm) orthogonal "gashes" **RQD** 338.00 - 341.00 : 100.00 % RQD 100.00 % Core 341.00 - 344.00 : 100.00 % RQD 100.00 % Core 344.00 - 347.00 : 100.00 % RQD 100.00 % Core **MINOR INTERVALS:** **Minor Interval:** 353.8 - 361.64 ARG, Argillite sub unit contains only occassional magnetitie band, (> 1%), contains 30 cm qtz Fe carb vein without sulphide ass. **Minor Interval:** 371 - 381 ARG, Argillite sub unit of magnetite poor chloritic sediment (as sub-unit above)	30487	354.00	354.45	0.45				
			30488	371.23	372.15	0.92				

Hole Number: **ESO-06-13**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
397.60	420.75	**ARG, Argillite** unit is continuous with above but lacks any magnetite bands -is dominanly chloritic but with more apparently siltstone type interbeds and possibly chert beds, minor qtz Fe carb veining, vein at upper contact, v. minor sulphide, unit contains qtz - fe carb - hydrothermal chl zone with diss. to patchy vfg py over .35 m at 416m	30489	410.18	410.87	0.69				
			30490	416.00	417.00	1.00				
			30491	417.00	418.00	1.00				
			30492	418.00	419.00	1.00				
			30493	419.00	420.00	1.00				
			30494	420.00	421.00	1.00				
420.75	439.17	**ARG, Argillite** unit is continuous with above - green chloritic argillite with minor chert beds but is distinguished by the occurrence of vfg py which occurs 1)diss to semi-massive bands parallel to banding (transposed bedding) with sharp contacts, 2) as semi masssive irregular accumuation that appear to be limited to compositional bands but internally have a mottled texture, and 3) zones of vfg py with silicifiecation and locally clear qtz with carbonate and vey locally aspy. banded py zones < 10 cm and py is < 5% of zone, bottome part of the unit contains a dark grey argillte zone, (i.e. not chl arg) as per up hole units **Mineralization** 420.75 - 439.17 : PY Pyrite, Len Lenses, 3% 431.05 - 431.95 : ASP Arsenopyrite, Diss Disseminated, 0.5% **MINOR INTERVALS:** **Minor Interval:** 421.7 - 422 ARBIF, Argillitic iron formation small horizon of banded magnetite and chert, probably sig. grunereite, no min. ass.	30496	421.00	422.00	1.00				
			30497	422.00	423.50	1.50				
			30498	423.50	425.00	1.50				
			30499	425.00	426.70	1.70				
			30500	426.70	428.00	1.30				
			30501	428.00	428.75	0.75				
			30502	428.75	429.62	0.87				
			30503	429.62	431.00	1.38				
			30504	431.00	432.00	1.00				
			30506	432.00	432.88	0.88				
			30507	432.88	434.00	1.12				
			30508	434.00	435.00	1.00				
			30509	435.00	436.00	1.00				
			30510	436.00	437.00	1.00				
			30511	437.00	438.00	1.00				
			30512	438.00	439.17	1.17				
439.17	456.00	**ARG, Argillite** lithologically appears to be continuous with above, above is folded at the contact and the unit is marked by very strong alteration and highly irregular core angle, alteration is quartz, carbonate, sericite, small (local) fuchsite, textures are disctrrete silification and carb-mica alteration of host rock, no distinct large scale vein(s) but pervasive silica and smaller scale < 1 cm type veins, veins fabric is highly irregular evidence of complex internal folding within the alteration zone, however, intense fabric associated with boudinage appears to be at approx 45 TCA, minor kink folds of fabric., < 1% py, generally f.g.and diss, aspy generally f.g. locally up to .5 cm and << 1% throughout interval., trace sphalerite	30513	439.17	440.00	0.83				
			30514	440.00	441.00	1.00				
			30516	441.00	442.00	1.00				
			30517	442.00	443.00	1.00				
			30518	443.00	444.00	1.00				
			30519	444.00	445.00	1.00				
			30520	445.00	446.00	1.00				
			30521	446.00	447.00	1.00				
			30522	447.00	448.00	1.00				
			30523	448.00	449.00	1.00				
			30524	449.00	450.00	1.00				
			30526	450.00	451.00	1.00				
			30527	451.00	451.73	0.73				
			30528	451.73	453.00	1.27				
			30529	453.00	454.00	1.00				
			30530	454.00	455.00	1.00				
			30531	455.00	456.00	1.00				

Hole Number: **ESO-06-13**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
456.00	472.83	**WACKE, Wacke** unit is interbedded dominantly greywacke and siltstone with lesser argillite, unaltered, v minor qurtz venlete bedding parallel, < 1 cm, no carb of sul. ass. scattered py cubes up to .75 cm << 1%, lowermost part of the unit is a quartz fragmental unit., possibly a quartz crystal tuff								

Samples

Sample Number	From	To	Au gpt	Ag ppm	Zn ppm	Cu ppm
Sample Type **ASSAY**						
30344	56.00	57.50				
30346	57.50	59.00				
30347	59.00	60.50				
30348	60.50	62.00				
30349	62.00	65.00				
30350	65.00	66.50				
30351	66.50	68.00				
30352	68.00	69.50				
30353	69.50	71.00				
30354	71.00	72.50				
30356	72.50	74.00				
30357	74.00	75.50				
30358	75.50	77.00				
30359	77.00	78.50				
30360	78.50	80.00				
30361	80.00	81.00				
30362	81.00	82.00				
30363	82.00	83.00				
30364	92.00	93.50				
30366	93.50	95.00				
30367	95.00	96.50				
30368	96.50	98.00				
30369	98.00	99.50				
30370	99.50	101.00				
30371	101.00	102.50				
30372	102.50	104.00				
30373	104.00	105.50				
30374	105.50	107.00				
30376	107.00	108.50				
30377	108.50	110.00				
30378	110.00	111.00				

Hole Number: **ESO-06-13**

Units: METRIC

Samples

Sample Number	From	To	Au gpt	Ag ppm	Zn ppm	Cu ppm
Sample Type **ASSAY**						
30379	111.00	112.16				
30380	112.16	113.00				
30381	113.00	114.00				
30382	114.00	114.64				
30383	114.64	115.15				
30384	115.15	116.00				
30386	116.00	117.00				
30387	117.00	118.00				
30388	118.00	119.00				
30389	119.00	120.00				
30390	120.00	120.44				
30391	120.44	121.00				
30392	121.00	122.00				
30393	122.00	123.00				
30394	123.00	124.00				
30396	124.00	125.00				
30397	125.00	126.00				
30398	126.00	127.00				
30399	127.00	128.00				
30400	128.00	129.00				
30401	129.00	130.00				
30402	130.00	131.00				
30403	131.00	132.00				
30404	132.00	133.07				
30406	133.07	134.29				
30407	134.29	135.50				
30408	135.50	136.50				
30409	136.50	137.15				
30410	137.15	138.30				
30411	138.30	139.10				
30412	139.10	140.00				
30413	140.00	141.00				
30414	141.00	142.00				
30416	142.00	143.27				
30417	143.27	144.00				
30418	144.00	145.00				
30419	145.00	146.00				
30420	146.00	147.50				

Hole Number: **ESO-06-13**

Units: METRIC

Samples

Sample Number	From	To	Au gpt	Ag ppm	Zn ppm	Cu ppm
Sample Type **ASSAY**						
30421	147.50	149.00				
30422	149.00	150.00				
30423	150.00	151.00				
30424	151.00	152.00				
30426	152.00	153.00				
30427	153.00	154.00				
30428	154.00	155.00				
30429	155.00	156.50				
30430	156.50	158.00				
30431	158.00	159.00				
30432	159.00	160.00				
30433	160.00	161.00				
30434	161.00	161.68				
30436	161.68	162.36				
30437	162.36	162.95				
30438	162.95	164.00				
30439	164.00	165.00				
30440	165.00	166.00				
30441	166.00	167.00				
30442	167.00	168.00				
30443	168.00	169.00				
30444	169.00	170.00				
30446	170.00	171.00				
30447	171.00	172.00				
30448	172.00	173.00				
30449	173.00	174.00				
30450	174.00	175.00				
30451	175.00	176.00				
30452	176.00	177.50				
30453	177.50	179.00				
30454	179.00	180.00				
30456	189.00	190.00				
30457	194.00	195.00				
30458	195.00	196.00				
30459	196.00	197.00				
30460	197.00	197.94				
30461	197.94	198.80				
30462	198.80	199.68				

Hole Number: **ESO-06-13**

Units: METRIC

Samples

Sample Number	From	To	Au gpt	Ag ppm	Zn ppm	Cu ppm
Sample Type **ASSAY**						
30463	199.68	200.38				
30464	200.38	200.97				
30466	200.97	202.00				
30467	202.00	203.00				
30468	203.00	204.00				
30469	204.00	205.00				
30470	205.00	206.00				
30471	206.00	207.50				
30472	218.00	219.00				
30473	219.00	220.00				
30474	220.00	221.00				
30476	221.00	222.00				
30477	222.00	223.00				
30478	223.00	224.00				
30479	290.00	291.10				
30480	309.20	310.23				
30481	310.23	311.00				
30482	311.00	312.30				
30483	312.30	312.94				
30484	312.94	314.00				
30486	335.62	336.75				
30487	354.00	354.45				
30488	371.23	372.15				
30489	410.18	410.87				
30490	416.00	417.00				
30491	417.00	418.00				
30492	418.00	419.00				
30493	419.00	420.00				
30494	420.00	421.00				
30496	421.00	422.00				
30497	422.00	423.50				
30498	423.50	425.00				
30499	425.00	426.70				
30500	426.70	428.00				
30501	428.00	428.75				
30502	428.75	429.62				
30503	429.62	431.00				
30504	431.00	432.00				

Hole Number: **ESO-06-13**

Units: METRIC

Samples

Sample Number	From	To	Au gpt	Ag ppm	Zn ppm	Cu ppm
Sample Type **ASSAY**						
30506	432.00	432.88				
30507	432.88	434.00				
30508	434.00	435.00				
30509	435.00	436.00				
30510	436.00	437.00				
30511	437.00	438.00				
30512	438.00	439.17				
30513	439.17	440.00				
30514	440.00	441.00				
30516	441.00	442.00				
30517	442.00	443.00				
30518	443.00	444.00				
30519	444.00	445.00				
30520	445.00	446.00				
30521	446.00	447.00				
30522	447.00	448.00				
30523	448.00	449.00				
30524	449.00	450.00				
30526	450.00	451.00				
30527	451.00	451.73				
30528	451.73	453.00				
30529	453.00	454.00				
30530	454.00	455.00				
30531	455.00	456.00				

DETAILED LOG

Hole Number: **ESO-06-14**

Units: METRIC

Project Name:	Mikwam	Primary Coordinates	Grid: UTM:		Destination Coordinates	Grid: LOCAL:	Collar Dip: -60.00
Project Number:	ESO06-MK	North:	5483004.00		North:		Collar Az: 180.00
Location:	Surface	East:	592272.00		East:		Length: 221.00
		Elev:	271.80		Elev:		Start Depth: 0.00
Date Started:	Jun 07, 2006	Collar Survey: N	Plugged: N		Contractor:	Heath and Sherwood Drilling Inc.	Final Depth: 221.00
Date Completed:	Jun 14, 2006	Multishot Survey: N	Hole Size: BQ		Core Storage:	Mine Site	
		Pulse EM Survey: N	Casing: Left in Hole				

Comments:

Sample Averages

Survey Data

Depth	Azimuth Decimal	Dip Decimal	Test Type	Flag	Comments	Depth	Azimuth Decimal	Dip Decimal	Test Type	Flag	Comments
56.00	192.20	-58.70	ES	OK		**101.00**	183.20	-53.50	ES	OK	
200.00	178.40	-37.10	ES	OK		**220.00**	179.20	-29.60	ES	OK	

Detailed Lithology

From	To	Lithology	Assay Data							
			Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
0	49.00	**OB, Overburden**								

DETAILED LOG

Hole Number: **ESO-06-14**

Units: METRIC

Detailed Lithology

From	To	Lithology
49.00	73.90	**ARG, Argillite** Green argillite with quartz carbonate veins (mostly mm, rarely cm). The carbonate minerals are calcite and siderite-ankerite. Pyrite occurs disseminated and in veins. The total sulfide content does not exceed 1-2% of the rock. Traces of fine grained disseminated arsenopyrite? Dispersed crystals (mm to cm) of euhedral pyrite. Bedding is 50 degrees to core axis. **RQD** 50.00 - 53.00 : 100.00 % RQD 100.00 % Core 2.90 m recovered 53.00 - 56.00 : 100.00 % RQD 100.00 % Core 2.80 m recovered 56.00 - 59.00 : 100.00 % RQD 100.00 % Core 2.45 m recovered 59.00 - 62.00 : 100.00 % RQD 100.00 % Core 1.50 m recovered 62.00 - 65.00 : 100.00 % RQD 100.00 % Core 2.40 m recovered 65.00 - 68.00 : 100.00 % RQD 100.00 % Core 2.80 m recovered 68.00 - 71.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 71.00 - 74.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered **MINOR INTERVALS:** **Minor Interval:** 49 - 71.5 ARG, Argillite Green argillite with a layer of dark grey argillite at 62.00-65.00 m. **Minor Interval:** 71.5 - 73.9 ARG, Argillite Mostly black argillite : black argillite layers alternating with some siltstone/sandstone layers.

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
30532	56.30	56.57	0.27				
30533	62.00	63.00	1.00				
30534	63.00	63.65	0.65				
30536	63.65	64.00	0.35				
30537	64.00	64.76	0.76				
30538	64.76	66.16	1.40				
30539	67.75	68.00	0.25				
30540	68.65	69.39	0.74				
30541	70.00	70.35	0.35				
30542	71.33	72.82	1.49				
30543	73.18	73.84	0.66				

Hole Number: **ESO-06-14**

Units: METRIC

Detailed Lithology

From	To	Lithology
73.90	100.90	**SNSTN, Sandstone** Alternating light grey and dark grey fine grained sandstone (or siltstone) with very low sulfide content. Bedding is 45 -55 degrees to core axis. **RQD** 74.00 - 77.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 77.00 - 80.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 80.00 - 83.00 : 100.00 % RQD 100.00 % Core 2.90 m recovered 83.00 - 86.00 : 100.00 % RQD 100.00 % Core 2.95 m recovered 86.00 - 89.00 : 100.00 % RQD 100.00 % Core 2.95 m recovered 89.00 - 92.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 92.00 - 95.00 : 100.00 % RQD 100.00 % Core 2.60 m recovered 95.00 - 98.00 : 100.00 % RQD 100.00 % Core 2.80 m recovered 98.00 - 101.00 : 100.00 % RQD 100.00 % Core 2.45 m recovered **MINOR INTERVALS:** **Minor Interval:** 73.9 - 76 SNSTN, Sandstone Light grey fine grained sandstone (or siltstone) with a layer of black argillite (with quartz carbonate veins) at 77.50-77.84 m. **Minor Interval:** 78.4 - 79.5 SLTST, Siltstone Light grey siltstone (almost a sandstone).

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
30544	79.84	80.13	0.29				
30546	84.50	85.00	0.50				
30547	94.47	94.71	0.24				

Hole Number: **ESO-06-14**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
100.90	113.30	**SNSTN, Sandstone** Sandstone with minor quartz carbonate veins (1%). **Mineralization** 106.00 - 113.30 : PY Pyrite, Diss Disseminated, 2% **RQD** 101.00 - 104.00 : 100.00 % RQD 100.00 % Core 2.90 m recovered 104.00 - 107.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 107.00 - 110.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 110.00 - 113.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 113.00 - 116.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered	30548	106.00	107.00	1.00				
			30549	107.00	108.00	1.00				
			30550	108.00	109.00	1.00				
			30551	109.00	110.00	1.00				
			30552	110.00	111.00	1.00				
			30553	111.00	111.60	0.60				
			30554	112.00	113.00	1.00				
			30556	113.24	114.44	1.20				
113.30	118.20	**SNSTN, Sandstone** Grey fine grained sandstone (or sandstone). Minor quartz carbonate veins. **Mineralization** 113.30 - 118.20 : PY Pyrite, Diss Disseminated, 2% **RQD** 116.00 - 119.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered	30557	114.79	115.88	1.09				
			30558	116.34	116.94	0.60				
118.20	119.20	**SNSTN, Sandstone** Sandstone with minor quartz carbonate veins. **Mineralization** 118.20 - 119.20 : PY Pyrite, Diss Disseminated, 2% **RQD** 119.00 - 122.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered	30559	119.00	120.00	1.00				
119.20	125.60	**SNSTN, Sandstone** Grey fine grained sandstone (or siltstone). **RQD** 122.00 - 125.00 : 100.00 % RQD 100.00 % Core 2.95 m recovered 125.00 - 128.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered	30560	122.00	123.00	1.00				
			30561	123.00	124.00	1.00				
			30562	124.00	125.00	1.00				
			30563	125.00	126.00	1.00				
125.60	126.40	**SNSTN, Sandstone**	30564	126.00	127.00	1.00				
126.40	127.00	**ARG, Argillite** Black argillite: mostly black argillite with some siltstone/sandstone layers.								

Hole Number: **ESO-06-14**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
127.00	128.80	**SNSTN, Sandstone** Sandstone. **RQD** 128.00 - 131.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered								
128.80	137.00	**ARG, Argillite** Black argillite: alternating sandstone layers and black argillite. Black argillite is by far the predominant rock type. The black argillite layers have moderate to high quartz carbonate veins. **RQD** 131.00 - 134.00 : 100.00 % RQD 100.00 % Core 2.85 m recovered 134.00 - 137.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered **MINOR INTERVALS:** **Minor Interval:** 128.8 - 130.2 ARG, Argillite Black argillite with minor quartz carbonate veins. **Mineralization** 128.80 - 130.20 : PY Pyrite, Diss Disseminated, 2% **Minor Interval:** 130.2 - 130.3 SNSTN, Sandstone Sandstone. **Mineralization** 130.20 - 130.30 : PY Pyrite, Diss Disseminated, 1% **Minor Interval:** 130.3 - 134.8 ARG, Argillite Black argillite with moderate to high quantity of quartz carbonate veins. This unit contains one vein (cm) of euhedral greenish calcite crystals. **Mineralization** 130.30 - 132.60 : PY Pyrite, Diss Disseminated, 2% **Minor Interval:** 134.8 - 135.2 SNSTN, Sandstone Sandstone with low to moderate quartz carbonate veins. One quartz vein with 50% pyrite at 135 m. **Mineralization** 134.80 - 135.20 : PY Pyrite, Pat Patches, 10% **Minor Interval:** 135.2 - 137 ARG, Argillite Black argillite with moderate to high quantity of quartz carbonate veins. **Mineralization** 135.20 - 137.00 : PY Pyrite, Diss Disseminated, 5%	30566	129.00	130.00	1.00				
			30567	130.00	131.00	1.00				
			30568	131.00	132.00	1.00				
			30569	132.00	133.00	1.00				
			30570	133.00	134.00	1.00				
			30571	134.00	135.00	1.00				
			30572	135.00	136.00	1.00				
			30573	136.00	137.00	1.00				

Hole Number: **ESO-06-14**

Units: METRIC

Detailed Lithology

From	To	Lithology
137.00	155.80	**CQV, Quartz-carbonate vein** Large quartz sericite carbonate sulfide vein in which carbonate (calcite) is a very minor phase. Quartz is milky white as well as colorless. Patches and veins of pyrite and arsenopyrite (often euhedral) are distributed over the whole width of this vein. Pyrite is by far the predominant sulfide. The contact between the quartz carbonate vein and the black argillite rock unit above is rather sharp at 137.00 m. The interval 137.00-137.20 contains black argillite and quartz carbonate vein material in about equal proportions. The depth 152.05-152.55 m is a massive sulfide (i.e. about 50% of the rock is made of sulfides). There is some fractured material (sericitized and chloritized) which occupies the depth at 147-148 m and at various locations within the quartz carbonate vein. At least one third of the interval 137-156 m (the whole width of the vein) is composed of sericitized material, possibly the wallrock metasediments now sericitized. Pyrite and arsenopyrite are present in the sericitized material as well as in the other parts of the vein. At 155.80 m the quantity of coarse quartz in the rock drops to nil so that the contact between this unit and the one below is set at 155.80 m. **RQD** 137.00 - 140.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 140.00 - 143.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 143.00 - 146.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 146.00 - 149.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 149.00 - 152.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 152.00 - 155.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 155.00 - 158.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered **MINOR INTERVALS:** **Minor Interval:** 152.05 - 152.55 MS, Massive sulphide About 50% to 55% of the rock is made of pyrite and arsenopyrite, the former being predominant.

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
30574	137.00	138.00	1.00				
30576	138.00	139.00	1.00				
30577	139.00	140.00	1.00				
30578	140.00	141.00	1.00				
30579	141.00	142.00	1.00				
30580	142.00	143.00	1.00				
30581	143.00	144.00	1.00				
30582	144.00	145.00	1.00				
30583	145.00	146.00	1.00				
30584	146.00	147.00	1.00				
30586	147.00	148.00	1.00				
30587	148.00	149.00	1.00				
30588	149.00	150.00	1.00				
30589	150.00	151.00	1.00				
30590	151.00	152.00	1.00				
30591	152.00	153.00	1.00				
30592	153.00	154.00	1.00				
30593	154.00	155.00	1.00				
30594	155.00	156.00	1.00				

Hole Number: **ESO-06-14**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
155.80	180.40	**SNSTN, Sandstone** Moderately to pervasively sericitized sandstone with rare (1-2%) pyrite and locally slightly magnetic. Pervasively sericitized zones (somewhat also chloritized): 155.80-159.50, 162.50-165.10, 176.00-178.00, and 180.30-180.40 m. Minor amount of calcite veins (1 mm to 1 cm in width) with euhedral pyrite. The overall content of pyrite in this unit does not exceed 1%. One occurrence of sphalerite? Gradational contact with next unit below: the next unit below contains a smaller number of sericitized zones, so that the contact is set arbitrarily at 180.40 m. Bedding is about 60 degrees to core axis. **RQD** 158.00 - 161.00 : 100.00 % RQD 100.00 % Core 2.95 m recovered 161.00 - 164.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 164.00 - 167.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 167.00 - 170.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 170.00 - 173.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 173.00 - 176.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 176.00 - 179.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 179.00 - 182.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered	30596	156.00	157.00	1.00				
			30597	157.00	158.00	1.00				
			30598	163.00	164.00	1.00				
			30599	164.00	165.00	1.00				
			30600	176.00	177.00	1.00				
			30601	177.00	178.00	1.00				
			30602	180.00	181.00	1.00				

Hole Number: **ESO-06-14**

Units: METRIC

Detailed Lithology

From	To	Lithology
180.40	221.00	**SNSTN, Sandstone** Rather "fresh sandstone". Alternating grey sandstone and black argillite with disseminated arsenopyrite and pyrite. Pyrite is the predominant sulfide. The total sulfide content of the black argillite is 1-2% whereas the sulfide content of the grey sandstone is even less than that. The arsenopyrite occurs essentially in the black argillite and often occurs without associated pyrite. The unit contains occasional mm arsenopyrite and pyrite bearing quartz carbonate veinlets. Several cm wide ankerite veins. Bedding is 55 degrees to core axis. **RQD** 182.00 - 185.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 185.00 - 188.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 188.00 - 191.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 191.00 - 194.00 : 100.00 % RQD 100.00 % Core 2.95 m recovered 194.00 - 197.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 197.00 - 200.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 200.00 - 203.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 203.00 - 206.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 206.00 - 209.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 209.00 - 212.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 212.00 - 215.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 215.00 - 218.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 218.00 - 221.00 : 100.00 % RQD 100.00 % Core 2.95 m recovered

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
30603	191.00	192.00	1.00				
30604	198.00	199.00	1.00				
30606	199.00	200.00	1.00				
30607	209.00	209.78	0.78				
30608	211.00	212.00	1.00				
30609	212.00	213.00	1.00				
30610	213.00	214.00	1.00				
30611	214.00	215.00	1.00				
30612	215.00	216.00	1.00				
30613	216.00	217.00	1.00				

Samples

Sample Number	From	To	Au gpt	Ag ppm	Zn ppm	Cu ppm
Sample Type **ASSAY**						
30532	56.30	56.57				
30533	62.00	63.00				
30534	63.00	63.65				
30536	63.65	64.00				

Hole Number: **ESO-06-14**

Units: METRIC

Samples

Sample Number	From	To	Au gpt	Ag ppm	Zn ppm	Cu ppm
Sample Type **ASSAY**						
30537	64.00	64.76				
30538	64.76	66.16				
30539	67.75	68.00				
30540	68.65	69.39				
30541	70.00	70.35				
30542	71.33	72.82				
30543	73.18	73.84				
30544	79.84	80.13				
30546	84.50	85.00				
30547	94.47	94.71				
30548	106.00	107.00				
30549	107.00	108.00				
30550	108.00	109.00				
30551	109.00	110.00				
30552	110.00	111.00				
30553	111.00	111.60				
30554	112.00	113.00				
30556	113.24	114.44				
30557	114.79	115.88				
30558	116.34	116.94				
30559	119.00	120.00				
30560	122.00	123.00				
30561	123.00	124.00				
30562	124.00	125.00				
30563	125.00	126.00				
30564	126.00	127.00				
30566	129.00	130.00				
30567	130.00	131.00				
30568	131.00	132.00				
30569	132.00	133.00				
30570	133.00	134.00				
30571	134.00	135.00				
30572	135.00	136.00				
30573	136.00	137.00				
30574	137.00	138.00				
30576	138.00	139.00				
30577	139.00	140.00				
30578	140.00	141.00				

Hole Number: **ESO-06-14**

Units: METRIC

Samples

Sample Number	From	To	Au gpt	Ag ppm	Zn ppm	Cu ppm
Sample Type **ASSAY**						
30579	141.00	142.00				
30580	142.00	143.00				
30581	143.00	144.00				
30582	144.00	145.00				
30583	145.00	146.00				
30584	146.00	147.00				
30586	147.00	148.00				
30587	148.00	149.00				
30588	149.00	150.00				
30589	150.00	151.00				
30590	151.00	152.00				
30591	152.00	153.00				
30592	153.00	154.00				
30593	154.00	155.00				
30594	155.00	156.00				
30596	156.00	157.00				
30597	157.00	158.00				
30598	163.00	164.00				
30599	164.00	165.00				
30600	176.00	177.00				
30601	177.00	178.00				
30602	180.00	181.00				
30603	191.00	192.00				
30604	198.00	199.00				
30606	199.00	200.00				
30607	209.00	209.78				
30608	211.00	212.00				
30609	212.00	213.00				
30610	213.00	214.00				
30611	214.00	215.00				
30612	215.00	216.00				
30613	216.00	217.00				

DETAILED LOG

Hole Number: **ESO-06-15**

Units: METRIC

Project Name:	Mikwam	Primary Coordinates	Grid: UTM:		Destination Coordinates	Grid: LOCAL:	Collar Dip: -60.00
Project Number:	ESO06-MK	North:	5483107.00		North:		Collar Az: 180.00
Location:	Surface	East:	592272.00		East:		Length: 351.00
		Elev:	211.90		Elev:		Start Depth: 0.00
Date Started:	Jun 15, 2006	Collar Survey: N	Plugged: N		Contractor:	Heath and Sherwood Drilling Inc.	Final Depth: 351.00
Date Completed:	Jun 19, 2006	Multishot Survey: N	Hole Size: BQ		Core Storage:	Mine Site	
		Pulse EM Survey: N	Casing: Left in Hole				

Comments:

Sample Averages

Survey Data

Depth	Azimuth Decimal	Dip Decimal	Test Type	Flag	Comments	Depth	Azimuth Decimal	Dip Decimal	Test Type	Flag	Comments
63.00	199.00	-61.30	ES	OK		**102.00**	189.00	-60.30	ES	OK	
204.00	188.30	-52.30	ES	OK		**303.00**	192.30	-47.20	ES	OK	
351.00	196.40	-44.30	ES	OK							

Detailed Lithology

From	To	Lithology
0	40.70	**OB, Overburden**
40.70	52.95	**ARG, Argillite** Black argillite with mm to cm quartz carbonate veins and and very minor pyrite (disseminated and in quartz carbonate veins). Only 8.75 m of the core (65%) was recovered over this 13.30 m interval. Traces of arsenopyrite? **RQD** 40.70 - 42.00 : 100.00 % RQD 100.00 % Core 1.25 m recovered 42.00 - 45.00 : 100.00 % RQD 100.00 % Core 2.10 m recovered 45.00 - 48.00 : 100.00 % RQD 100.00 % Core 1.70 m recovered 48.00 - 51.00 : 100.00 % RQD 100.00 % Core 1.35 m recovered 51.00 - 54.00 : 100.00 % RQD 100.00 % Core 2.35 m recovered
52.95	53.70	**FZ, Fault zone** Fault zone? with quartz and ankerite? Traces of finely disseminated pyrite and arsenopyrite.
53.70	54.00	**ARG, Argillite** Chloritic argillite. Rock composed essentially of chlorite, no other mineral present.

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
30614	46.00	46.50	0.50				
30616	51.00	52.00	1.00				

DETAILED LOG

Hole Number: **ESO-06-15**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
54.00	54.30	**BIF, Iron formation** Banded iron formation (alternating white layers of fine grained quartz and brown layers of magnetic iron oxide). The layers are 1-5 mm thick. **RQD** 54.00 - 57.00 : 100.00 % RQD 100.00 % Core 2.25 m recovered								
54.30	58.50	**ARG, Argillite** Green argillite with quartz carbonate veins and traces of pyrite. Traces of sphalerite? **RQD** 57.00 - 60.00 : 100.00 % RQD 100.00 % Core 2.90 m recovered								
58.50	63.00	**ARG, Argillite** Light grey argillite with quartz carbonate veins (mm to cm). Bedding is 75 degrees to core axis. **RQD** 60.00 - 63.00 : 100.00 % RQD 100.00 % Core 2.90 m recovered								

DETAILED LOG

Units: METRIC

Hole Number: **ESO-06-15**

Detailed Lithology

From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
63.00	91.90	**ARG, Argillite** Green argillite with a quartz carbonate vein content which varies from nothing to almost 25%. The interval 63.50-64.20 m is partly sericitized. Some intervals (71.50-72.50 m; 80.00-80.30 m; 83.70-84.00 m.10; 84.20-87.20 m) are composed of chlorite only, no other mineral is present in these intervals. This unit changes progressively to light grey argillite to black grey argillite. Rare veinlets of ankerite. Banded iron formation (20 cm in thickness at depth 88.00 m; alternating white layers of fine grained quartz and brown layers of magnetic iron oxide). The layers of the BIF are 1-5 mm thick. **RQD** 63.00 - 66.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 66.00 - 69.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 69.00 - 72.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 72.00 - 75.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 75.00 - 78.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 78.00 - 81.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 81.00 - 84.00 : 100.00 % RQD 100.00 % Core 2.10 m recovered 84.00 - 87.00 : 100.00 % RQD 100.00 % Core 1.80 m recovered 87.00 - 90.00 : 100.00 % RQD 100.00 % Core 2.60 m recovered 90.00 - 93.00 : 100.00 % RQD 100.00 % Core 2.90 m recovered	30617	76.50	77.50	1.00				
			30618	79.70	80.00	0.30				
			30619	80.00	81.00	1.00				
			30620	87.50	88.00	0.50				
91.90	100.20	**ARG, Argillite** Black argillite with quartz carbonate veins (mm to cm) and traces of pyrite. Bedding is 70 degrees to core axis. **RQD** 93.00 - 96.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 96.00 - 99.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 99.00 - 102.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered	30621	98.50	99.50	1.00				

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DETAILED LOG

Units: METRIC

Hole Number: **ESO-06-15**

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
100.20	102.10	**SNSTN, Sandstone** Metasandstone with no sulfides and very rare mm veinlets of quartz carbonate. **RQD** 102.00 - 105.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered								

Hole Number: **ESO-06-15**

Units: METRIC

Detailed Lithology

From	To	Lithology
102.10	165.00	**CONG, Conglomerate** Polymictic metaconglomerate with flattened pebbles up to 12 cm in length. This unit contains traces of fine grained disseminated pyrite. The intervals 102.50-102.80, 105.80-106.30,107.00-107.15, 108.25-108.40, and 120.65-120.90 m are moderately chloritized and have a very low pyrite content. The chloritized zones contain few mm to cm quartz ankerite veins and coarse grained quartz veins. The interval 114.00-125.70 m is slightly chloritized. Minor ankerite veinlets. The contact between this unit and the next rock unit down is within the chlorite alteration zone described thereafter, but obscured by it . However, the last pebble witch can be identified as such with an absolute certainty is at depth 164.90 m. Therefore, the boundary between the polymictic conglomerate and the next rock unit below is set at 165.00 m. Bedding is 70 degrees to core axis. Chlorite alteration zone (159.00-179.00 m): the rocks in this interval are highly to moderately chloritized and locally moderately to highly sericitized. There is a large quantity of quartz and quartz carbonate veins up to several cm in width. Quartz is coarse grained and colorless to milky white. The only carbonate present is white calcite. The only sulphide present is pyrite, disseminated in the rocks and as massive layers and patches in the quartz and the quartz carbonate veins. The thickness of pyrite layers in the veins may be up to 2-3 cm. The interval 177.15-177.30 m is graphitic and highly chloritized. **RQD** 105.00 - 108.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 108.00 - 111.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 111.00 - 114.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 114.00 - 117.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 117.00 - 120.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 120.00 - 123.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 123.00 - 126.00 : 100.00 % RQD 100.00 % Core 2.80 m recovered 126.00 - 129.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 129.00 - 132.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 132.00 - 135.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 135.00 - 138.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 138.00 - 141.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
30622	102.50	103.00	0.50				
30623	105.80	106.30	0.50				
30624	107.06	107.48	0.42				
30626	120.50	121.00	0.50				
30627	159.00	160.00	1.00				
30628	160.00	161.00	1.00				
30629	161.00	162.00	1.00				
30630	162.00	163.00	1.00				
30631	163.00	164.00	1.00				
30632	164.00	165.00	1.00				

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DETAILED LOG

Units: METRIC

Hole Number: **ESO-06-15**

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		RQD 141.00 - 144.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 144.00 - 147.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 147.00 - 150.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 150.00 - 153.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 153.00 - 156.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 156.00 - 159.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 159.00 - 162.00 : 100.00 % RQD 100.00 % Core 2.95 m recovered 162.00 - 165.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered								
165.00	188.50	**SNSTN, Sandstone** Alternating grey fine grained sandstone (or siltstone) and black argillite. Chlorite alteration zone (159.00-179.00 m): this zone is described in the previous rock unit. Bedding is 50 degrees to core axis. **RQD** 165.00 - 168.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 168.00 - 171.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 171.00 - 174.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 174.00 - 177.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 177.00 - 180.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 180.00 - 183.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 183.00 - 186.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 186.00 - 189.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered	30633	165.00	166.00	1.00				
			30634	166.00	167.00	1.00				
			30636	167.00	168.00	1.00				
			30637	168.00	169.00	1.00				
			30638	169.00	170.00	1.00				
			30639	170.00	171.00	1.00				
			30640	171.00	172.00	1.00				
			30641	172.00	173.00	1.00				
			30642	173.00	174.00	1.00				
			30643	174.00	175.00	1.00				
			30644	175.00	176.00	1.00				
			30646	176.00	177.00	1.00				
			30647	177.00	178.00	1.00				
			30648	178.00	179.00	1.00				

Units: METRIC

Hole Number: **ESO-06-15**

Detailed Lithology

From	To	Lithology
188.50	197.80	**ARG, Argillite** Black argillite with moderate quantity of mm to cm quartz carbonate veins. Fine to coarse disseminated pyrite (2-3%). Bedding is 70 degrees to core axis. **RQD** 189.00 - 192.00 : 100.00 % RQD 100.00 % Core 2.75 m recovered 192.00 - 195.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 195.00 - 198.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered
197.80	217.50	**ARG, Argillite** Pyrite-rich dark argillite. Dark argillite with moderate to high quantity of mm to cm quartz carbonate pyrite veins. The total pyrite content is several percent. There are two series of quartz carbonate veins: the first is concordant with the foliation and the second series is almost at right angle to the foliation. The pyrite is disseminated within the black argillite and mostly in the quartz carbonate veins concordant to the foliation. The veins at right angle to the foliation contain much less pyrite than the others and are generally barren. A typical and common case is that of a barren quartz carbonate vein cutting pyrite rich veins concordant to the foliation. Quartz carbonate vein (1-2 cm) with very low pyrite content at 203.20 m. Quartz carbonate vein (2-3 cm) with moderate pyrite content at 208.15 m. **RQD** 198.00 - 201.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 201.00 - 204.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 204.00 - 207.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 207.00 - 210.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 210.00 - 213.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 213.00 - 216.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 216.00 - 219.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
30649	191.00	192.00	1.00				
30650	192.00	193.00	1.00				
30651	195.00	196.00	1.00				
30652	196.00	197.00	1.00				
30653	197.00	198.00	1.00				
30654	198.00	199.00	1.00				
30656	199.00	200.00	1.00				
30657	200.00	201.00	1.00				
30658	201.00	202.00	1.00				
30659	202.00	203.00	1.00				
30660	203.00	204.00	1.00				
30661	204.00	205.00	1.00				
30662	205.00	206.00	1.00				
30663	206.00	207.00	1.00				
30664	207.00	208.00	1.00				
30666	208.00	209.00	1.00				
30667	209.00	210.00	1.00				
30668	210.00	211.00	1.00				
30669	211.00	212.00	1.00				
30670	212.00	213.00	1.00				
30671	213.00	214.00	1.00				
30672	214.00	215.00	1.00				
30673	215.00	216.00	1.00				
30674	216.00	217.00	1.00				
30676	217.00	217.50	0.50				

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DETAILED LOG

Units: METRIC

Hole Number: **ESO-06-15**

Detailed Lithology

From	To	Lithology
217.50	232.15	**SNSTN, Sandstone** Fine grained sandstone (or siltstone). Very rare pyrite. **RQD** 219.00 - 222.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 222.00 - 225.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 225.00 - 228.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 228.00 - 231.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 231.00 - 234.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered
232.15	239.90	**ARG, Argillite** Black argillite with moderate quantity of mm to cm quartz carbonate veins. Low to moderate pyrite content. Pyrite disseminated and in quartz carbonate veins. **RQD** 234.00 - 237.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 237.00 - 240.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered
239.90	250.20	**SNSTN, Sandstone** Alternating (layer thickness = 0.5 to 1 m) fine grained sandstone (or siltstone) and black argillite. The sandstone is locally slightly magnetic indicating the presence of magnetite. Zones of sericitic alteration at 248.45-248.75 m, 249.45-249.60 m, 249.80-250.20 m. Bedding is 55 degrees to core axis. **RQD** 240.00 - 243.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 243.00 - 246.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 246.00 - 249.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 249.00 - 252.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered
250.20	256.50	**ARG, Argillite** Black argillite with moderate to high quartz carbonate veins content and moderate pyrite content. **RQD** 252.00 - 255.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 255.00 - 258.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
30677	232.00	233.00	1.00				
30678	233.00	234.00	1.00				
30679	234.00	235.00	1.00				
30680	235.00	236.00	1.00				
30681	236.00	237.00	1.00				
30682	237.00	238.00	1.00				
30683	238.00	239.00	1.00				
30684	239.00	240.00	1.00				
30686	248.40	248.80	0.40				
30687	249.27	249.97	0.70				
30688	251.00	252.00	1.00				
30689	252.00	253.00	1.00				
30690	253.00	254.00	1.00				
30691	254.00	255.00	1.00				
30692	255.00	256.00	1.00				
30693	256.00	257.00	1.00				

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DETAILED LOG

Units: METRIC

Hole Number: **ESO-06-15**

Detailed Lithology

From	To	Lithology
256.50	278.70	**CQV, Quartz-carbonate vein** Large quartz carbonate sulfides vein. Very low carbonate content. Moderate to high pyrite and arsenopyrite contents. Pyrite is by far the predominant sulfide. Although pyrite and arsenopyrite occur all over this large quartz carbonate vein, sulfides are most abundant in the interval 259.90-260.25 m where they composed 35% of the rock. The areas with high sulfide abundances have a spongy texture. Quartz is coarse grained and milky white to colorless. About 25% of the interval 256.50-275.50 m is occupied by fractured sericitized material (possibly the wallrock metasediments now sericitized and chloritized). Pyrite and arsenopyrite are fine to coarse grained and occur disseminated as well as patches, veins and veinlets within the large quartz carbonate vein itself and the sericitized material therein. This rock unit is very similar (with respect to thickness, mineralogy and texture,) to the corresponding rock unit in hole ESO-06-14. **RQD** 258.00 - 261.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 261.00 - 264.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 264.00 - 267.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 267.00 - 270.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 270.00 - 273.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 273.00 - 276.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 276.00 - 279.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
30694	257.00	258.00	1.00				
30696	258.00	259.00	1.00				
30697	259.00	260.00	1.00				
30698	260.00	261.00	1.00				
30699	261.00	262.00	1.00				
30700	262.00	263.00	1.00				
30701	263.00	264.00	1.00				
30702	264.00	265.00	1.00				
30703	265.00	266.00	1.00				
30704	266.00	267.00	1.00				
30706	267.00	268.00	1.00				
30707	268.00	269.00	1.00				
30708	269.00	270.00	1.00				
30709	270.00	271.00	1.00				
30710	271.00	272.00	1.00				
30711	272.00	273.00	1.00				
30712	273.00	274.00	1.00				
30713	274.00	275.00	1.00				
30714	275.00	276.00	1.00				
30716	276.00	277.00	1.00				
30717	277.00	278.00	1.00				
30718	278.00	279.00	1.00				

Units: METRIC

Hole Number: **ESO-06-15**

Detailed Lithology

From	To	Lithology
278.70	308.00	**SNSTN, Sandstone** Pervasively sericitized sandstone. The limit between this unit and the one above is not sharp but rather gradational over 11.5 m from 278.65 m to 290.15 m: the volume of the rock occupied by the coarse grained colorless to milky white quartz is decreasing progressively. This transitional zone (278.65-290.15) is a pervasively sericitized-chloritized conglomeratic sandstone at the top (near 278.70 m) and a pervasively sericitized-chloritized sandstone at the base (near 290.15 m). In this transitional zone as well as in the above quartz carbonate vein unit, the sericitized-chloritized material is fractured and cut by veins (generally mm to cm) of quartz carbonate sulfides veins. The whole 278.70-308.00 m interval is in fact a sericite-chlorite alteration zone with very low quantity of quartz carbonate veins (1% or less) and minor sulfides content (1% or less). The unit is locally slightly magnetic. Although the sulfides content is low in this unit, arsenopyrite predominates over pyrite. Pyrite and arsenopyrite are fine grained and disseminated. The alteration in this rock unit is not as homogeneous as in the corresponding rock unit in hole ESO-06-14. In hole ESO-06-14, the same rock unit as a nice, constant, and homogeneous alteration, whereas in the present hole this alteration is somewhat "patchy". **RQD** 279.00 - 282.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 282.00 - 285.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 285.00 - 288.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 288.00 - 291.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 291.00 - 294.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 294.00 - 297.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 297.00 - 300.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 300.00 - 303.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 303.00 - 306.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 306.00 - 309.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
30719	279.00	280.00	1.00				
30720	280.00	281.00	1.00				
30721	281.00	282.00	1.00				
30722	282.00	283.00	1.00				
30723	283.00	284.00	1.00				
30724	284.00	285.00	1.00				
30726	285.00	286.00	1.00				
30727	286.00	287.00	1.00				
30728	287.00	288.00	1.00				
30729	288.00	289.00	1.00				
30730	289.00	290.00	1.00				
30731	290.00	291.00	1.00				
30732	291.00	292.00	1.00				
30733	292.00	293.00	1.00				
30734	293.00	294.00	1.00				
30736	294.00	295.00	1.00				
30737	295.00	296.00	1.00				
30738	296.00	297.00	1.00				
30739	297.00	298.00	1.00				
30740	298.00	299.00	1.00				
30741	299.00	300.00	1.00				
30742	300.00	301.00	1.00				
30743	301.00	302.00	1.00				
30744	302.00	303.00	1.00				
30746	303.00	304.00	1.00				
30747	304.00	305.00	1.00				
30748	305.00	306.00	1.00				
30749	306.00	307.00	1.00				
30750	307.00	308.00	1.00				

Hole Number: **ESO-06-15**

Units: METRIC

Detailed Lithology

From	To	Lithology
308.00	351.00	**SNSTN, Sandstone** 308.00-348.80 m: Grey sandstone ("fresh"). The contact between the sericitized-chloritized sandstone above and the fresh grey sandstone is gradational over about 1 m at 307.5-308.5 m. The grey sandstone contains traces of pyrite and a very low quantity of quartz carbonate veins. This unit contains some black argillite layers alternating with grey sandstone in the interval 319-323 m. The unit is locally slightly magnetic. 348.8-351 m: Grey sandstone with high content of quartz carbonate veins. Although the pyrite content is low, it is nevertheless higher than in the other part of the unit. Several layers (1-5 mm thick) of sericite-rich are present Pyrite occurs mostly as cm patches, but also disseminated and in veins. **RQD** 309.00 - 312.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 312.00 - 315.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 315.00 - 318.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 318.00 - 321.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 321.00 - 324.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 324.00 - 327.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 327.00 - 330.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 330.00 - 333.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 333.00 - 336.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 336.00 - 339.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 339.00 - 342.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 342.00 - 345.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 345.00 - 348.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 348.00 - 351.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
30751	308.00	309.00	1.00				
30752	348.50	349.00	0.50				
30753	349.00	350.00	1.00				
30754	350.00	351.00	1.00				

Hole Number: **ESO-06-15**

Units: METRIC

Samples

Sample Number	From	To	Au gpt	Ag ppm	Zn ppm	Cu ppm
Sample Type **ASSAY**						
30614	46.00	46.50				
30616	51.00	52.00				
30617	76.50	77.50				
30618	79.70	80.00				
30619	80.00	81.00				
30620	87.50	88.00				
30621	98.50	99.50				
30622	102.50	103.00				
30623	105.80	106.30				
30624	107.06	107.48				
30626	120.50	121.00				
30627	159.00	160.00				
30628	160.00	161.00				
30629	161.00	162.00				
30630	162.00	163.00				
30631	163.00	164.00				
30632	164.00	165.00				
30633	165.00	166.00				
30634	166.00	167.00				
30636	167.00	168.00				
30637	168.00	169.00				
30638	169.00	170.00				
30639	170.00	171.00				
30640	171.00	172.00				
30641	172.00	173.00				
30642	173.00	174.00				
30643	174.00	175.00				
30644	175.00	176.00				
30646	176.00	177.00				
30647	177.00	178.00				
30648	178.00	179.00				
30649	191.00	192.00				
30650	192.00	193.00				
30651	195.00	196.00				
30652	196.00	197.00				
30653	197.00	198.00				
30654	198.00	199.00				
30656	199.00	200.00				

Hole Number: **ESO-06-15**

Units: METRIC

Samples

Sample Number	From	To	Au gpt	Ag ppm	Zn ppm	Cu ppm
Sample Type **ASSAY**						
30657	200.00	201.00				
30658	201.00	202.00				
30659	202.00	203.00				
30660	203.00	204.00				
30661	204.00	205.00				
30662	205.00	206.00				
30663	206.00	207.00				
30664	207.00	208.00				
30666	208.00	209.00				
30667	209.00	210.00				
30668	210.00	211.00				
30669	211.00	212.00				
30670	212.00	213.00				
30671	213.00	214.00				
30672	214.00	215.00				
30673	215.00	216.00				
30674	216.00	217.00				
30676	217.00	217.50				
30677	232.00	233.00				
30678	233.00	234.00				
30679	234.00	235.00				
30680	235.00	236.00				
30681	236.00	237.00				
30682	237.00	238.00				
30683	238.00	239.00				
30684	239.00	240.00				
30686	248.40	248.80				
30687	249.27	249.97				
30688	251.00	252.00				
30689	252.00	253.00				
30690	253.00	254.00				
30691	254.00	255.00				
30692	255.00	256.00				
30693	256.00	257.00				
30694	257.00	258.00				
30696	258.00	259.00				
30697	259.00	260.00				
30698	260.00	261.00				

Hole Number: **ESO-06-15**

Units: METRIC

Samples

Sample Number	From	To	Au gpt	Ag ppm	Zn ppm	Cu ppm
Sample Type **ASSAY**						
30699	261.00	262.00				
30700	262.00	263.00				
30701	263.00	264.00				
30702	264.00	265.00				
30703	265.00	266.00				
30704	266.00	267.00				
30706	267.00	268.00				
30707	268.00	269.00				
30708	269.00	270.00				
30709	270.00	271.00				
30710	271.00	272.00				
30711	272.00	273.00				
30712	273.00	274.00				
30713	274.00	275.00				
30714	275.00	276.00				
30716	276.00	277.00				
30717	277.00	278.00				
30718	278.00	279.00				
30719	279.00	280.00				
30720	280.00	281.00				
30721	281.00	282.00				
30722	282.00	283.00				
30723	283.00	284.00				
30724	284.00	285.00				
30726	285.00	286.00				
30727	286.00	287.00				
30728	287.00	288.00				
30729	288.00	289.00				
30730	289.00	290.00				
30731	290.00	291.00				
30732	291.00	292.00				
30733	292.00	293.00				
30734	293.00	294.00				
30736	294.00	295.00				
30737	295.00	296.00				
30738	296.00	297.00				
30739	297.00	298.00				
30740	298.00	299.00				

Hole Number: **ESO-06-15**

Units: METRIC

Samples

Sample Number	From	To	Au gpt	Ag ppm	Zn ppm	Cu ppm
Sample Type **ASSAY**						
30741	299.00	300.00				
30742	300.00	301.00				
30743	301.00	302.00				
30744	302.00	303.00				
30746	303.00	304.00				
30747	304.00	305.00				
30748	305.00	306.00				
30749	306.00	307.00				
30750	307.00	308.00				
30751	308.00	309.00				
30752	348.50	349.00				
30753	349.00	350.00				
30754	350.00	351.00				

DETAILED LOG

Hole Number: **ESO-06-16** Units: METRIC

Project Name:	Mikwam	Primary Coordinates Grid: UTM:			Destination Coordinates Grid: LOCAL:	Collar Dip:	-60.00
Project Number:	ESO06-MK	North:	5482831.00		North:	Collar Az:	360.00
Location:	Surface	East:	592371.00		East:	Length:	220.75
		Elev:	270.30		Elev:	Start Depth:	0.00
Date Started:	Jun 20, 2006	Collar Survey:	N	Plugged: N	Contractor: Heath and Sherwood Drilling Inc.	Final Depth:	220.75
Date Completed:	Jun 23, 2006	Multishot Survey:	N	Hole Size: BQ	Core Storage: Mine Site		
		Pulse EM Survey:	N	Casing: Left in Hole			

Comments:

Sample Averages

Survey Data

Depth	Azimuth Decimal	Dip Decimal	Test Type	Flag	Comments	Depth	Azimuth Decimal	Dip Decimal	Test Type	Flag	Comments
41.00	15.70	-50.10	ES	OK		**101.00**	24.00	-47.50	ES	OK	
220.75	25.60	-41.20	ES	OK							

Detailed Lithology

From	To	Lithology
0	31.65	**OB, Overburden**
31.65	36.50	**CQV, Quartz-carbonate vein** Quartz carbonate vein with ankerite and sericitized-chloritized material. Massive vein of coarse grained colorless and milky white quartz at 32.53-32.90 m and 35.80-36.30 m. Low to moderate quantity of brown material (in patches and filling fractures) wich could be ankerite and/or sulfide alteration. Low total sulfides (pyrite and arsenopyrite) content. Pyrite is the predominant sulfide. The sericitized-chloritized material is fractured and the fractures are filled with quartz and sulfides. **RQD** 31.65 - 32.00 : 100.00 % RQD 100.00 % Core 0.35 m recovered 32.00 - 35.00 : 100.00 % RQD 100.00 % Core 2.95 m recovered 35.00 - 38.00 : 100.00 % RQD 100.00 % Core 2.30 m recovered

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
30756	31.65	32.00	0.35				
30757	32.00	33.00	1.00				
30758	33.00	34.00	1.00				
30759	34.00	35.00	1.00				
30760	35.00	36.00	1.00				
30761	36.00	37.00	1.00				

DETAILED LOG

Hole Number: **ESO-06-16**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
36.50	51.17	**CONG, Conglomerate** Polymictic conglomerate with a grey or greenish matrix (36.85-37.35 m; 41.70-42.10 m; 44.70-45.20 m) and traces of fine grained disseminated pyrite and arsenopyrite? Very few quartz carbonate veinlets. **RQD** 38.00 - 41.00 : 100.00 % RQD 100.00 % Core 2.80 m recovered 41.00 - 44.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 44.00 - 47.00 : 100.00 % RQD 100.00 % Core 2.80 m recovered 47.00 - 50.00 : 100.00 % RQD 100.00 % Core 2.95 m recovered 50.00 - 53.00 : 100.00 % RQD 100.00 % Core 2.97 m recovered	30762	37.00	38.00	1.00				
51.17	53.40	**ARG, Argillite** Green argillite with traces of fine grained disseminated pyrite and minor quartz carbonate veins. **RQD** 53.00 - 56.00 : 100.00 % RQD 100.00 % Core 2.90 m recovered								
53.40	56.10	**ARG, Argillite** Black argillite with moderate quartz carbonate veins and traces of disseminated pyrite. **RQD** 56.00 - 59.00 : 100.00 % RQD 100.00 % Core 2.94 m recovered	30763	56.00	57.00	1.00				
56.10	58.20	**ARG, Argillite** Green argillite with a 40-cm wide sericitized zone rich in quartz carbonate veins and pyrite (disseminated, patches, and veins).	30764 30766	57.00 58.00	58.00 58.50	1.00 0.50				
58.20	59.30	**BIF, Iron formation** Banded iron formation (alternating white layers of fine grained quartz and brown layers of magnetic iron oxide). The layers are 1-5 mm thick. This unit is cut by a 2-cm wide coarse grained quartz carbonate vein. **RQD** 59.00 - 62.00 : 100.00 % RQD 100.00 % Core 2.90 m recovered	30767	59.10	59.85	0.75				

DETAILED LOG

Units: METRIC

Hole Number: **ESO-06-16**

Detailed Lithology

From	To	Lithology
59.30	67.00	**ARG, Argillite** Green argillite with few layers of black argillite. This unit is locally sericitized (the interval 61.10-62.50 m is heavely sericitized). This unit is also cut by numerous quartz carbonate veins and contains several rusty zones (ankerite and/or pyrite alteration) with a spongy texture (59.30-59.45; 59.70-59.90; 60.50-61.10; 61.80-62.05; 62.15-62.95; 63.50-63.75; 64.40-64.50; 64.75-65.05; 65.15-65.20; 65.45-66.50): although they all contain pyrite, only the zone 62.15-62.95 is pyrite-rich. Pyrite is fine to medium grained and occurs disseminated and in veins. On many occasions, euhedral pyrite can clearly be seen filling those voids of the spongy texture. **RQD** 62.00 - 65.00 : 100.00 % RQD 100.00 % Core 2.90 m recovered 65.00 - 68.00 : 100.00 % RQD 100.00 % Core 2.70 m recovered
67.00	69.00	**ARG, Argillite** Black argillite with traces of disseminated pyrite and moderate (interval 67.00-68.00 m) to high (interval 68.00-69.00 m) quartz carbonate veins. **RQD** 68.00 - 71.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
30768	59.85	61.00	1.15				
30769	61.00	62.00	1.00				
30770	62.00	63.00	1.00				
30771	63.00	64.00	1.00				
30772	64.00	65.00	1.00				
30773	65.00	66.00	1.00				
30774	68.00	69.00	1.00				

DETAILED LOG

Hole Number: **ESO-06-16**

Units: METRIC

Detailed Lithology

From	To	Lithology
69.00	130.80	**ARBIF, Argillitic iron formation** Banded iron formation (BIF) interlayered with green argillite and minor black argillite. The BIF are composed of alternating fine grained milky white quartz layers (1-5 mm thick) and brown layers (1-5 mm thick) of magnetic iron oxides. The BIF are sulfide free. Low to very low disseminated (generally fine grained) pyrite in the green argillite. Traces of fine grained arsenopyrite disseminated in the green argillite. Pyrite is chiefly located at the numerous contacts green argillite-BIF. The green argillite is locally partly sericitized. About 12% of this unit is banded iron formations. Bedding is 45 degrees to core axis. **RQD** 71.00 - 74.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 74.00 - 77.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 77.00 - 80.00 : 100.00 % RQD 100.00 % Core 2.90 m recovered 80.00 - 83.00 : 100.00 % RQD 100.00 % Core 2.90 m recovered 83.00 - 86.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 86.00 - 89.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 89.00 - 92.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 92.00 - 95.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 95.00 - 98.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 98.00 - 101.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 101.00 - 104.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 104.00 - 107.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 107.00 - 110.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 110.00 - 113.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 113.00 - 116.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 116.00 - 119.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 119.00 - 122.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
30776	69.00	70.00	1.00				
30777	70.00	70.50	0.50				
30796	78.00	79.00	1.00				
30797	92.00	92.50	0.50				
30798	100.00	101.00	1.00				
30778	102.50	103.00	0.50				
30799	112.50	113.00	0.50				
30800	115.90	116.40	0.50				
30801	116.80	117.60	0.80				
30802	127.00	128.00	1.00				
30779	129.00	129.70	0.70				
30780	130.00	131.00	1.00				

DETAILED LOG

Hole Number: **ESO-06-16**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		RQD 122.00 - 125.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 125.00 - 128.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 128.00 - 131.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered								
130.80	137.00	**ARG, Argillite** Black argillite with low to moderate quartz carbonate veins content. Traces of pyrite. **RQD** 131.00 - 134.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 134.00 - 137.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered								

DETAILED LOG

Hole Number: **ESO-06-16**

Units: METRIC

Detailed Lithology		
From	To	Lithology
137.00	196.00	**ARBIF, Argillitic iron formation** Same as ARBIF from the interval 69.00-130.80 m. Fine grained sphalerite at 181.35 m. Bedding is 30-40 degrees to core axis. **RQD** 137.00 - 140.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 140.00 - 143.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 143.00 - 146.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 146.00 - 149.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 149.00 - 152.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 152.00 - 155.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 155.00 - 158.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 158.00 - 161.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 161.00 - 164.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 164.00 - 167.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 167.00 - 170.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 170.00 - 173.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 173.00 - 176.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 176.00 - 179.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 179.00 - 182.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 182.00 - 185.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 185.00 - 188.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 188.00 - 191.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 191.00 - 194.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 194.00 - 197.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
30781	137.00	138.00	1.00				
30782	140.00	141.00	1.00				
30783	141.00	142.00	1.00				
30784	142.50	143.00	0.50				
30803	147.00	148.00	1.00				
30804	148.00	149.00	1.00				
30786	153.50	154.50	1.00				
30787	161.00	162.00	1.00				
30788	162.00	162.50	0.50				
30806	174.50	175.00	0.50				
30789	177.00	178.00	1.00				
30790	178.00	179.00	1.00				
30791	179.00	180.00	1.00				
30792	180.00	181.00	1.00				
30793	181.00	182.00	1.00				
30794	191.00	192.00	1.00				
30807	192.00	193.00	1.00				
30808	194.00	195.00	1.00				

DETAILED LOG

Hole Number: **ESO-06-16**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
196.00	201.40	**ARG, Argillite** Black argillite with low to moderate quartz carbonate veins and low content of fine grained disseminated pyrite. Vein of quartz carbonate at 199.65-199.90 m with traces of pyrite. This unit is slightly magnetic up to 197.50 m. **RQD** 197.00 - 200.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 200.00 - 203.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered	30809	199.50	200.00	0.50				
201.40	202.10	**SNSTN, Sandstone** Barren sandstone: no sulfides, noquartz carbonate veins. Contact continuous with the unit above and below. Bedding 40 degrees to core axis.								
202.10	211.50	**ARG, Argillite** Black argillite with traces of pyrite. The quartz carbonate veins content is generally low to moderate. However, the interval 203.40-203.80 m has a high quartz carbonate veins content. **RQD** 203.00 - 206.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 206.00 - 209.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 209.00 - 212.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered	30810	203.00	204.00	1.00				
211.50	220.75	**SNSTN, Sandstone** Sandstone interlayered with minor black argillite. Traces of fine to medium grained disseminated pyrite. Bedding is 40 degrees to core axis. **RQD** 212.00 - 215.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 215.00 - 218.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 218.00 - 220.75 : 100.00 % RQD 100.00 % Core 2.75 m recovered								

Samples

Sample Number	From	To	Au gpt	Ag ppm	Zn ppm	Cu ppm
Sample Type **ASSAY**						
30756	31.65	32.00				
30757	32.00	33.00				
30758	33.00	34.00				
30759	34.00	35.00				
30760	35.00	36.00				
30761	36.00	37.00				

Hole Number: **ESO-06-16**

Units: METRIC

Samples

Sample Number	From	To	Au gpt	Ag ppm	Zn ppm	Cu ppm
Sample Type **ASSAY**						
30762	37.00	38.00				
30763	56.00	57.00				
30764	57.00	58.00				
30766	58.00	58.50				
30767	59.10	59.85				
30768	59.85	61.00				
30769	61.00	62.00				
30770	62.00	63.00				
30771	63.00	64.00				
30772	64.00	65.00				
30773	65.00	66.00				
30774	68.00	69.00				
30776	69.00	70.00				
30777	70.00	70.50				
30796	78.00	79.00				
30797	92.00	92.50				
30798	100.00	101.00				
30778	102.50	103.00				
30799	112.50	113.00				
30800	115.90	116.40				
30801	116.80	117.60				
30802	127.00	128.00				
30779	129.00	129.70				
30780	130.00	131.00				
30781	137.00	138.00				
30782	140.00	141.00				
30783	141.00	142.00				
30784	142.50	143.00				
30803	147.00	148.00				
30804	148.00	149.00				
30786	153.50	154.50				
30787	161.00	162.00				
30788	162.00	162.50				
30806	174.50	175.00				
30789	177.00	178.00				
30790	178.00	179.00				
30791	179.00	180.00				
30792	180.00	181.00				

Hole Number: **ESO-06-16**

Units: METRIC

Samples

Sample Number	From	To	Au gpt	Ag ppm	Zn ppm	Cu ppm
Sample Type **ASSAY**						
30793	181.00	182.00				
30794	191.00	192.00				
30807	192.00	193.00				
30808	194.00	195.00				
30809	199.50	200.00				
30810	203.00	204.00				

DETAILED LOG

Hole Number: **ESO-06-17**

Units: METRIC

Project Name:	Mikwam	Primary Coordinates	Grid: UTM:	Destination Coordinates	Grid: LOCAL:	Collar Dip:	-50.00
Project Number:	ESO06-MK	North:	5482718.00	North:		Collar Az:	360.00
Location:	Surface	East:	592372.00	East:		Length:	401.00
		Elev:	267.60	Elev:		Start Depth:	0.00
Date Started:	Jun 24, 2006	Collar Survey: N	Plugged: N	Contractor:	Heath and Sherwood Drilling Inc.	Final Depth:	401.00
Date Completed:	Jun 29, 2006	Multishot Survey: N	Hole Size: BQ	Core Storage:	Mine Site		
		Pulse EM Survey: N	Casing: Left in Hole				

Comments:

Sample Averages

Survey Data

Depth	Azimuth Decimal	Dip Decimal	Test Type	Flag	Comments	Depth	Azimuth Decimal	Dip Decimal	Test Type	Flag	Comments
50.00	12.90	-50.20	ES	OK		**101.00**	10.70	-46.10	ES	OK	
200.00	10.70	-40.70	ES	OK		**308.00**	15.00	-32.60	ES	OK	
401.00	17.60	-26.20	ES	OK							

Detailed Lithology

From	To	Lithology
0	30.30	**OB, Overburden**

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm

DETAILED LOG

Hole Number: **ESO-06-17**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
30.30	55.80	**SNSTN, Sandstone** Interlayered sandstone, siltstone, and black argillite. The unit is sandstone dominated and is locally sericitized. Low pyrite content. Fine to medium grained disseminated pyrite. Low quartz carbonate veins content. Bedding is 45 degrees to core axis. **RQD** 30.30 - 32.00 : 100.00 % RQD 100.00 % Core 1.70 m recovered 32.00 - 35.00 : 100.00 % RQD 100.00 % Core 2.65 m recovered 35.00 - 38.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 38.00 - 41.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 41.00 - 44.00 : 100.00 % RQD 100.00 % Core 2.00 m recovered 44.00 - 47.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 47.00 - 50.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 50.00 - 53.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 53.00 - 56.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered	30811	48.00	49.00	1.00				
			30812	55.00	56.00	1.00				
55.80	60.15	**SNSTN, Sandstone** Sandstone. Very low quartz carbonate veins content. Traces of pyrite. Bedding is about 45 degrees to core axis. **RQD** 56.00 - 59.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 59.00 - 62.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered								

Hole Number: **ESO-06-17**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
60.15	77.00	**CONG, Conglomerate** Polymictic conglomerate. This unit is locally sericitized. Elongated pebbles have a length up to 7 cm. Bedding is about 45 degrees to core axis. **RQD** 62.00 - 65.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 65.00 - 68.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 68.00 - 71.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 71.00 - 74.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 74.00 - 77.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered	30813	65.50	66.00	0.50				
			30814	66.00	67.00	1.00				
			30816	68.00	69.00	1.00				
77.00	108.80	**CONG, Conglomerate** Polymictic conglomerate interlayered with sandstone. This unit is locally sericitized. Minor fine to medium grained disseminated pyrite (rarely in veins). Bedding is 45 degrees to core axis. Low quartz carbonate veins content. Fuchsite at 92.5 m. The interval 83.00-108.00 m is rather greenish as a result of the presence of chlorite. **RQD** 77.00 - 80.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 80.00 - 83.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 83.00 - 86.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 86.00 - 89.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 89.00 - 92.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 92.00 - 95.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 95.00 - 98.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 98.00 - 101.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 101.00 - 104.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 104.00 - 107.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 107.00 - 110.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered	30817	84.00	85.00	1.00				
			30910	106.00	107.00	1.00				
			30911	107.00	108.00	1.00				
			30818	108.00	109.00	1.00				

Hole Number: **ESO-06-17**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
108.80	110.10	**CQV, Quartz-carbonate vein** The quartz carbonate vein is between the conglomeratic unit (above) and the black argillite unit (below) and has a very low pyrite content. The quartz is coarse grained and colorless to milky white. The interval 108.80-110.10 m is a mixture of sericitized sandstone, quartz carbonate vein material and black argillite and the contacts with the rock units above (sericitized sandstone) and below (black argillite) are not really sharp so that the present CQV rock unit could be subdivided as follows: 108.80-108.95 m: sericitized sandstone is predominant. 108.95-109.75 m: coarse quartz is predominant. 109.75-110.10 m: black argillite is predominant. **RQD** 110.00 - 113.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered	30819	109.00	110.00	1.00				
			30820	110.00	111.00	1.00				
110.10	123.45	**ARG, Argillite** Black argillite with low to moderate quartz carbonate veins. Minor fine to coarse grained pyrite in patches and veins. Bedding is at 45 degrees of core axis. **RQD** 113.00 - 116.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 116.00 - 119.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 119.00 - 122.00 : 100.00 % RQD 100.00 % Core 2.55 m recovered 122.00 - 125.00 : 100.00 % RQD 100.00 % Core 2.97 m recovered	30821	111.00	112.00	1.00				
			30822	115.00	116.00	1.00				
			30823	116.00	117.00	1.00				
			30824	117.00	118.00	1.00				
123.45	137.55	**SNSTN, Sandstone** Fine grained sandstone (or siltstone) interlayered with black argillite. The sandstone contains traces of pyrite whereas the black argillite has often a very high pyrite content (pyrite is fine to coarse grained, disseminated, in patches and in veins). Bedding is 37 degrees to core axis. **RQD** 125.00 - 128.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 128.00 - 131.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 131.00 - 134.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 134.00 - 137.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 137.00 - 140.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered	30826	129.50	130.50	1.00				
			30827	133.00	134.00	1.00				
			30828	134.00	135.00	1.00				
			30829	135.00	136.00	1.00				
			30830	136.00	137.00	1.00				
			30831	137.00	138.00	1.00				

Hole Number: **ESO-06-17**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
137.55	148.50	**ARG, Argillite** Black argillite with low to moderate pyrite (medium to coarse grained) content and minor quartz carbonate veins. Bedding is 35 degrees to core axis. The rock unit is locally slightly magnetic. **RQD** 140.00 - 143.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 143.00 - 146.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 146.00 - 149.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered	30832	138.00	139.00	1.00				
			30833	139.00	140.00	1.00				
			30834	140.00	141.00	1.00				
			30836	147.00	148.00	1.00				
			30837	148.00	149.00	1.00				
148.50	152.50	**SNSTN, Sandstone** Fine grained sandstone (or siltstone) with traces of pyrite and very minor quartz carbonate veins. **RQD** 149.00 - 152.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 152.00 - 155.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered								
152.50	157.90	**SNSTN, Sandstone** Fine grained sandstone interlayered with black argillite. Bedding is 30 degrees to core axis. This unit has an overall very low pyrite content and contains traces of arsenopyrite. The interval 153.50-154.85 m contains a large quantity of quartz carbonate veins and sericitized material; minor pyrite and traces of arsenopyrite. The interval 157.00-160.0 is chiefly sandstone and is sericitized. **RQD** 155.00 - 158.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered	30838	153.50	154.00	0.50				
157.90	164.20	**SNSTN, Sandstone** Sandstone with minor disseminated coarse grained pyrite and minor quartz carbonate veins. Bedding is 40 degrees to core axis. **RQD** 158.00 - 161.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 161.00 - 164.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 164.00 - 167.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered	30839	164.00	165.00	1.00				
164.20	169.00	**ARG, Argillite** Black argillite with interlayered sandstone and a high quartz carbonate veins content. Pyrite is abundant coarse grained and disseminated or in veins. **RQD** 167.00 - 170.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered	30840	165.00	166.00	1.00				
			30841	166.00	167.00	1.00				
			30842	167.00	168.00	1.00				
			30843	168.00	169.00	1.00				

Hole Number: **ESO-06-17**

Units: METRIC

Detailed Lithology

From	To	Lithology
169.00	226.78	**SNSTN, Sandstone** Coarse grained sandstone and fine grained sandstone with minor black argillite. The following intervals of the rock unit have been heavily sericitized: 171.80-173.90, 175.40-178.00, 179.80-180.20, 205.70-206.40, 215.00-215.50, 218.00-220.50 m. The interval 205.60-206.40 m is conglomeratic (polymictic). The overall content of quartz carbonate veins is low to moderate and the pyrite content is low. Pyrite is coarse grained and mainly disseminated. This rock unit contains several fracture blanketted by euhedral calcite crystal (1-5 mm) which grew in open space. Bedding is 50 degrees to core axis. **RQD** 170.00 - 173.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 173.00 - 176.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 176.00 - 179.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 179.00 - 182.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 182.00 - 185.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 185.00 - 188.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 188.00 - 191.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 191.00 - 194.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 194.00 - 197.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 197.00 - 200.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 200.00 - 203.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 203.00 - 206.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 206.00 - 209.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 209.00 - 212.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 212.00 - 215.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 215.00 - 218.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 218.00 - 221.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
30844	171.00	172.00	1.00				
30846	172.00	173.00	1.00				
30847	173.00	174.00	1.00				
30848	175.50	176.00	0.50				
30849	176.00	177.00	1.00				
30850	177.00	178.00	1.00				
30851	179.50	180.50	1.00				
30852	183.00	184.00	1.00				
30853	197.00	198.00	1.00				
30854	198.00	199.00	1.00				
30856	199.00	200.00	1.00				
30857	201.00	201.50	0.50				
30858	205.50	206.50	1.00				
30859	219.50	220.50	1.00				

Hole Number: **ESO-06-17**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		RQD 221.00 - 224.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 224.00 - 227.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered								
226.78	227.90	**SNSTN, Sandstone** Sericitized sandstone with minor disseminated coarse grained pyrite and minor quartz carbonate veins content. Bedding is 25 degrees to core axis. **RQD** 227.00 - 230.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered	30860	227.50	228.50	1.00				
227.90	241.85	**ARG, Argillite** Black argillite with minor quartz carbonate veins and minor disseminated coarse grained pyrite. Interlayered with miknor black argillite. Bedding is 25 degrees to core axis. **RQD** 230.00 - 233.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 233.00 - 236.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 236.00 - 239.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 239.00 - 242.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered	30861	241.00	242.00	1.00				
241.85	246.75	**SNSTN, Sandstone** Sericitized sandstone with low to moderate pyrite and minor arsenopyrite. The rock unit is overall greenish and slightly chloritized and it is locally highly chloritized. There is a 7 cm wide quartz carbonate vein at 244.25 m; this vein has only traces of pyrite. Gradational contact to next unit below: the quantity of coarse grained quartz increases from 246.12 m to 246.75 m where the sandstone disappears. **RQD** 242.00 - 245.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 245.00 - 248.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered	30862 30863 30864 30866	242.00 243.00 245.00 246.00	243.00 244.00 246.00 247.00	1.00 1.00 1.00 1.00				

Hole Number: **ESO-06-17**

Units: METRIC

Detailed Lithology

From	To	Lithology
246.75	264.05	**CQV, Quartz-carbonate vein** Quartz carbonate vein with abundant sulfides (fine to medium grained spongy pyrite in patches and veins and coarse euhedral arsenopyrite). Pyrite is by far the predominant sulfide. The areas with very high sulfides content have a spongy texture. The quartz is colorless to milky white. About 20-25% of the interval 246.75-264.05 m is sericitized material (probably parts of the wallrocks now sericitized and chloritized). The contact with the sandstone is gradational and described with that rock unit. The contact with the next unit (black argillite) at 264.05 is sharp. **RQD** 248.00 - 251.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 251.00 - 254.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 254.00 - 257.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 257.00 - 260.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 260.00 - 263.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 263.00 - 266.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered
264.05	281.35	**ARG, Argillite** Black argillite interlayered with minor fine grained sandstone. Low to moderate quartz carbonate veins. Minor fine to coarse grained pyrite disseminated and in veins. Bedding is at 35 degrees of core axis. **RQD** 266.00 - 269.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 269.00 - 272.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 272.00 - 275.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 275.00 - 278.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 278.00 - 281.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 281.00 - 284.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
30867	247.00	248.00	1.00				
30868	248.00	249.00	1.00				
30869	249.00	250.00	1.00				
30870	250.00	251.00	1.00				
30871	251.00	252.00	1.00				
30872	252.00	253.00	1.00				
30873	253.00	254.00	1.00				
30874	254.00	255.00	1.00				
30876	255.00	256.00	1.00				
30877	256.00	257.00	1.00				
30878	257.00	258.00	1.00				
30879	258.00	259.00	1.00				
30880	259.00	260.00	1.00				
30881	260.00	261.00	1.00				
30882	261.00	262.00	1.00				
30883	262.00	263.00	1.00				
30884	263.00	264.00	1.00				
30886	264.00	265.00	1.00				
30887	268.50	269.50	1.00				
30888	281.00	282.00	1.00				

Hole Number: **ESO-06-17**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
281.35	301.05	**ARBIF, Argillitic iron formation** Green argillite interlayered with brown and white banded iron formation (BIF). The BIF are composed of alternating fine grained milky white quartz layers (1-5 mm thick) and brown layers (1-5 mm thick) of magnetic iron oxides. The BIF are sulfide free. Minor disseminated (generally fine grained) pyrite in the green argillite. Pyrite is chiefly located at the numerous contacts green argillite-BIF. The green argillite is locally partly sericitized. About 12% of this unit is banded iron formations. Bedding is 45 degrees to core axis. **RQD** 284.00 - 287.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 287.00 - 290.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 290.00 - 293.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 293.00 - 296.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 296.00 - 299.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 299.00 - 302.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered	30889	282.00	283.00	1.00				
			30891	290.50	291.50	1.00				

Hole Number: **ESO-06-17**

Units: METRIC

Detailed Lithology

From	To	Lithology
301.05	378.25	**ARG, Argillite** Black argillite with minor fine grained sandstone (or silstone). Low to moderate quartz carbonate veins. Minor fine to coarse grained pyrite disseminated and in veins. Bedding is at 45 degrees of core axis. **RQD** 302.00 - 305.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 305.00 - 308.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 308.00 - 311.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 311.00 - 314.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 314.00 - 317.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 317.00 - 320.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 320.00 - 323.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 323.00 - 326.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 326.00 - 329.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 329.00 - 332.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 332.00 - 335.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 335.00 - 338.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 338.00 - 341.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 341.00 - 344.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 344.00 - 347.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 347.00 - 350.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 350.00 - 353.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 353.00 - 356.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 356.00 - 359.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered

Assay Data

Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
30890	307.50	308.00	0.50				
30892	312.70	313.20	0.50				
30893	318.50	319.50	1.00				
30894	326.00	326.50	0.50				
30896	332.50	333.50	1.00				
30897	334.00	335.00	1.00				
30898	335.00	336.00	1.00				
30899	343.00	344.00	1.00				
30900	356.00	357.00	1.00				
30901	358.00	359.00	1.00				
30902	359.00	360.00	1.00				
30903	360.00	361.00	1.00				
30904	361.00	362.00	1.00				
30906	362.00	363.00	1.00				
30907	363.00	364.00	1.00				
30908	366.00	367.00	1.00				
30909	372.00	373.00	1.00				

Hole Number: **ESO-06-17**

Units: METRIC

Detailed Lithology			Assay Data							
From	To	Lithology	Sample Number	From	To	Length	Au gpt	Ag ppm	Zn ppm	Cu ppm
		RQD 359.00 - 362.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 362.00 - 365.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 365.00 - 368.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 368.00 - 371.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 371.00 - 374.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 374.00 - 377.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 377.00 - 380.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered								
378.25	401.00	**SNSTN, Sandstone** Fine grained sandstone (or siltstone) with lesser black argillite. Low to moderate quartz carbonate veins. Overal low pyrite content (fine grained; disseminated and in veins. The contact with the with the previous rock unit black argillite at 378.25 m is continuous/gradational: the present rock unit merely contains more fine grained sandstone (or silstone) layers. **RQD** 380.00 - 383.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 383.00 - 386.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 386.00 - 389.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 389.00 - 392.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 392.00 - 395.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 395.00 - 398.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered 398.00 - 401.00 : 100.00 % RQD 100.00 % Core 3.00 m recovered								

Samples

Sample Number	From	To	Au gpt	Ag ppm	Zn ppm	Cu ppm
Sample Type **ASSAY**						
30811	48.00	49.00				
30812	55.00	56.00				
30813	65.50	66.00				

Hole Number: **ESO-06-17**

Units: METRIC

Samples

Sample Number	From	To	Au gpt	Ag ppm	Zn ppm	Cu ppm
Sample Type **ASSAY**						
30814	66.00	67.00				
30816	68.00	69.00				
30817	84.00	85.00				
30910	106.00	107.00				
30911	107.00	108.00				
30818	108.00	109.00				
30819	109.00	110.00				
30820	110.00	111.00				
30821	111.00	112.00				
30822	115.00	116.00				
30823	116.00	117.00				
30824	117.00	118.00				
30826	129.50	130.50				
30827	133.00	134.00				
30828	134.00	135.00				
30829	135.00	136.00				
30830	136.00	137.00				
30831	137.00	138.00				
30832	138.00	139.00				
30833	139.00	140.00				
30834	140.00	141.00				
30836	147.00	148.00				
30837	148.00	149.00				
30838	153.50	154.00				
30839	164.00	165.00				
30840	165.00	166.00				
30841	166.00	167.00				
30842	167.00	168.00				
30843	168.00	169.00				
30844	171.00	172.00				
30846	172.00	173.00				
30847	173.00	174.00				
30848	175.50	176.00				
30849	176.00	177.00				
30850	177.00	178.00				
30851	179.50	180.50				
30852	183.00	184.00				
30853	197.00	198.00				

Hole Number: **ESO-06-17**

Units: METRIC

Samples

Sample Number	From	To	Au gpt	Ag ppm	Zn ppm	Cu ppm
Sample Type **ASSAY**						
30854	198.00	199.00				
30856	199.00	200.00				
30857	201.00	201.50				
30858	205.50	206.50				
30859	219.50	220.50				
30860	227.50	228.50				
30861	241.00	242.00				
30862	242.00	243.00				
30863	243.00	244.00				
30864	245.00	246.00				
30866	246.00	247.00				
30867	247.00	248.00				
30868	248.00	249.00				
30869	249.00	250.00				
30870	250.00	251.00				
30871	251.00	252.00				
30872	252.00	253.00				
30873	253.00	254.00				
30874	254.00	255.00				
30876	255.00	256.00				
30877	256.00	257.00				
30878	257.00	258.00				
30879	258.00	259.00				
30880	259.00	260.00				
30881	260.00	261.00				
30882	261.00	262.00				
30883	262.00	263.00				
30884	263.00	264.00				
30886	264.00	265.00				
30887	268.50	269.50				
30888	281.00	282.00				
30889	282.00	283.00				
30891	290.50	291.50				
30890	307.50	308.00				
30892	312.70	313.20				
30893	318.50	319.50				
30894	326.00	326.50				
30896	332.50	333.50				

Hole Number: **ESO-06-17**

Units: METRIC

Samples

Sample Number	From	To	Au gpt	Ag ppm	Zn ppm	Cu ppm
Sample Type **ASSAY**						
30897	334.00	335.00				
30898	335.00	336.00				
30899	343.00	344.00				
30900	356.00	357.00				
30901	358.00	359.00				
30902	359.00	360.00				
30903	360.00	361.00				
30904	361.00	362.00				
30906	362.00	363.00				
30907	363.00	364.00				
30908	366.00	367.00				
30909	372.00	373.00				