



32E05NE0050 2.14208 ST. LAURENT

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2.14208

**ST. LAURENT PROPERTY
DIAMOND DRILLING REPORT
FEBRUARY 1991**

RECEIVED

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MINING LANDS SECTION

Joe MacPherson
Timmins Office

April 15, 1991



32E05NE0050 2.14208 ST. LAURENT

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SUMMARY

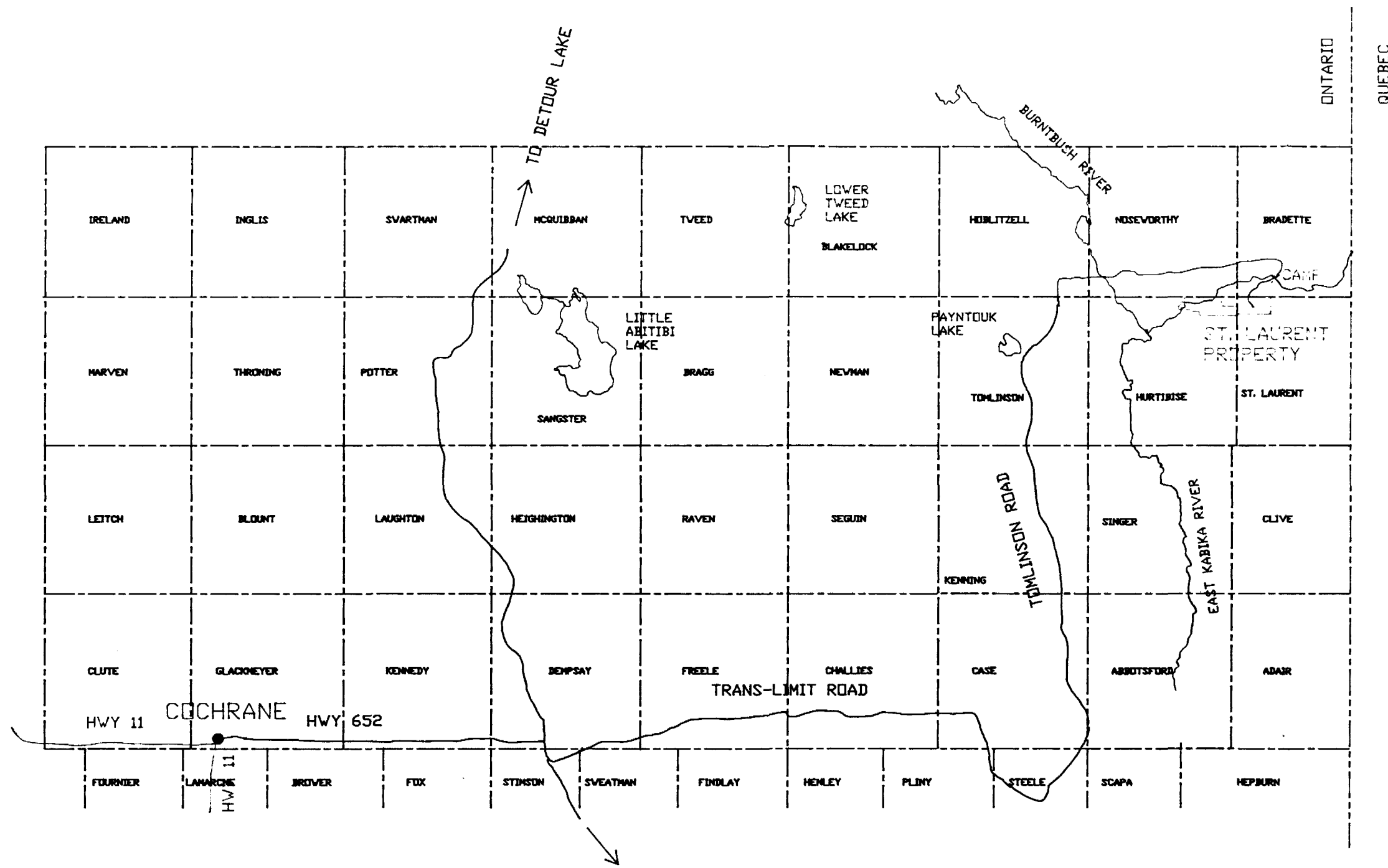
A diamond drilling program consisting of 1883 metres in 8 holes was completed on TOTAL Energold's property in St. Laurent and Hurtubise townships during the period February 12-26, 1991. The company holds a group of 89 contiguous claims in the above-mentioned townships, centred approximately 120 kilometres northeast of Cochrane, Ontario.

The drill program targeted on several Induced Polarization anomalies located during a survey carried out in the fall of 1990. These IP anomalies were interpreted to be graphitic shear zones similar to that hosting Inco's Golden Pond deposit to the northeast.

The stratigraphy consists of a band of iron tholeiitic basalts striking ENE through the center of the property. To the south, a thick sequence of clastic and chemical metasediments were encountered, while to the north, a similar sequence was located, flanked to the north by a thin unit of felsic volcanics and, further north, intermediate to mafic volcanics. All rock units were moderately to intensely altered and deformed.

The results of the drill program confirmed the presence of a strong, wide alteration/deformation zone conformable with stratigraphy, having a strike length of at least 3 kilometres and widths approaching 1 kilometre. Gold values, however, were very low and no economic values were intersected.

It is recommended that no further work take place at this time. Filing of all assessment work will retain the claims in good standing for a period of two years.



LEGEND

- Paved Highway
- Gravel Road
- Winter Road

TOTAL ENERGO GOLD CORPORATION			
ST. LAURENT PROPERTY			
LOCATION AND ACCESS			
Drawn: J.A.P.	Checked: J.A.P.	Scale:	Drawing: 31/65
Date: APRIL, 1991	Revised: APRIL, 1991	Province: Ontario	NTS: 3/16" = 1"

LOCATION AND ACCESS

The St. Laurent Property consists of 89 contiguous claims located along the northern borders of St. Laurent and Hurtubise townships, in the District of Cochrane, Ontario. The property is centred 120 kilometres northeast of Cochrane, in NTS sheet 32E/5.

Access to the property is via a series of logging roads from Cochrane, where the Detour Lake Mine road leads north to the intersection with the Trans-Limit Road, which heads due east to the Quebec border. The Tomlinson Road leads north from kilometre 89 on the Trans-Limit Road. At the end of this road, a distance of some 45 kilometres, a network of winter roads extends east for a distance of 32 kilometres to the north part of the property on the Burntbush River.

REGIONAL GEOLOGY

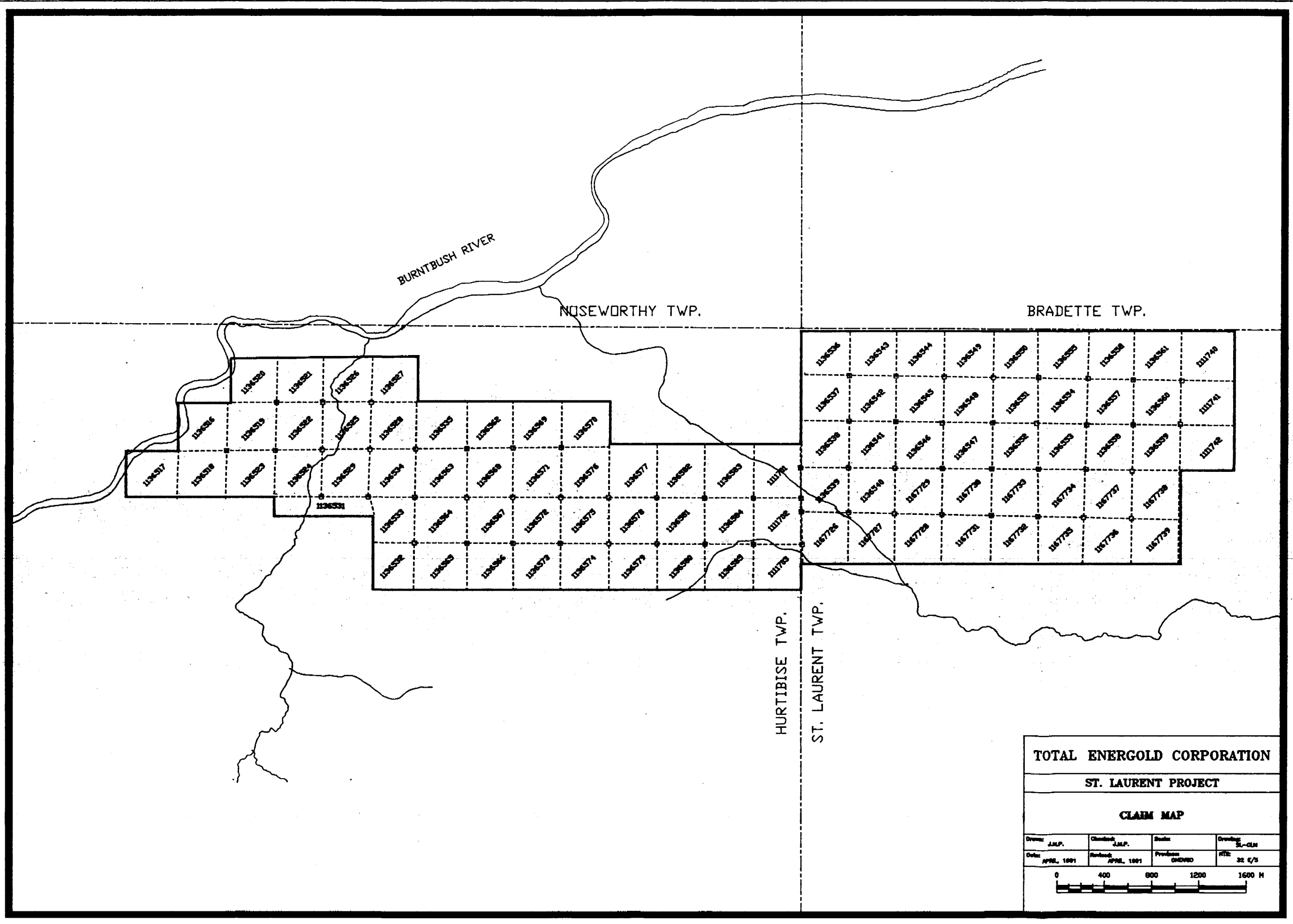
The property is located near the northwest margin of the Abitibi Greenstone Belt, in the Casa Berardi area. The regional geology is comprised of three units, bounded by granitic rocks to the north and south. The lower unit consists of mafic and ultramafic flows and comagmatic intrusives. The middle unit is a complex assemblage of felsic to mafic volcanics, clastic and chemical metasediments, and is the primary host to gold and base metal mineralization in the area. The third and youngest unit is comprised predominantly of clastic sediments. All three units have undergone greenschist to lower amphibolite grade metamorphism.

PROPERTY GEOLOGY

The St. Laurent Property is located in the middle regional unit, and hosts a homoclinal sequence of clastic and chemical sediments, minor mafic volcanics, and felsic volcanics, associated epiclastic rocks and related synvolcanic intrusives. All units dip steeply to the south, and have been regionally metamorphosed to greenschist facies. The sequence has been variably altered and deformed by a strong, wide deformation zone trending subparallel to stratigraphy. This deformation zone has a strike length of tens of kilometres and was encountered on previous drilling on TOTAL's Collet property 20 kilometres to the east in Quebec.

RESULTS OF THE DRILL PROGRAM

There are numerous IP chargeability and resistivity features present on the property. Those targeted for diamond drilling were interpreted to represent either graphitic shear zones similar to the Casa Berardi Fault with the potential to host lode gold deposits or silicified zones (resistivity highs) hosting disseminated gold-bearing sulfides.

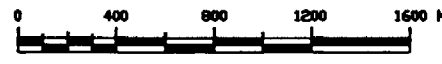


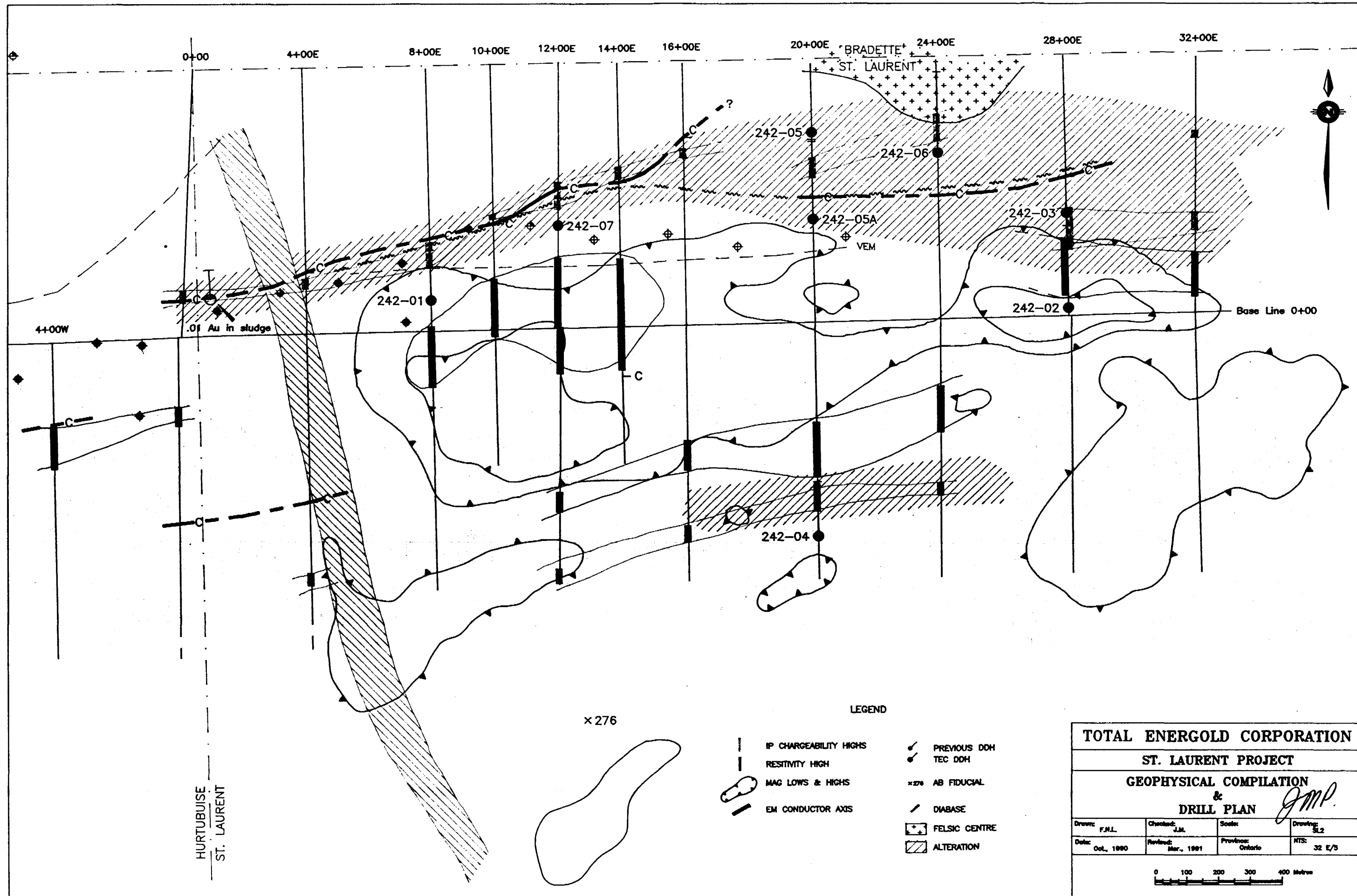
TOTAL ENERGOLD CORPORATION

ST. LAURENT PROJECT

CLAIM MAP

Drawn: J.M.P.	Checked: J.M.P.	Scale:	Drawing: SL-01A
Date: APRIL 1991	Revised: APRIL 1991	Project: ONDVED	NS: 32 E/S





HURTUBUISE
ST. LAURENT

x 276

LEGEND

- IP CHARGEABILITY HIGHS
- - - RESISTIVITY HIGH
- MAG LOWS & HIGHS
- EM CONDUCTOR AXIS
- PREVIOUS DDH
- TEC DDH
- x 276 AB FIDUCIAL
- DIABASE
- ⊕ FELSIC CENTRE
- ▨ ALTERATION

TOTAL ENERGO GOLD CORPORATION			
ST. LAURENT PROJECT			
GEOPHYSICAL COMPILATION & DRILL PLAN			
Drawn: F.M.L.	Checked: J.M.	Scale:	Drawing: SL2
Date: Oct., 1990	Revised: Mar., 1991	Province: Ontario	NTS: 32 E/5

All drill holes intersected strong alteration and deformation. Felsic volcanics were strongly altered to sericite and exhibited signs of intense ductile shearing. The chemical sediments (chert, jasper iron formation) were highly brecciated and fractured, and commonly exhibited remobilization of primary sulfides into fractures.

The amount of quartz veining was usually less than 1%, occurring as narrow irregular stringers and, less commonly, discrete veins approaching 1 metre in width. Sulfide content of the veins was very low.

Gold values were low in all rock types. The highest values of the program (70-82 ppb Au) were encountered in a brecciated chert unit with 5% fracture-controlled sulfides in DDH 242-04. The graphitic shears and the quartz veins they host rarely exceeded gold contents of 10 ppb.

CONCLUSIONS AND RECOMMENDATIONS

The February drill program on the St. Laurent property delineated a strong, wide regional deformation zone conformable with stratigraphy. Gold values within the deformation zone were uniformly low.

It is recommended that no further work be done on the property at this time.

CERTIFICATION

I, Joseph A. MacPherson, of Newmarket, Ontario hereby certify that:

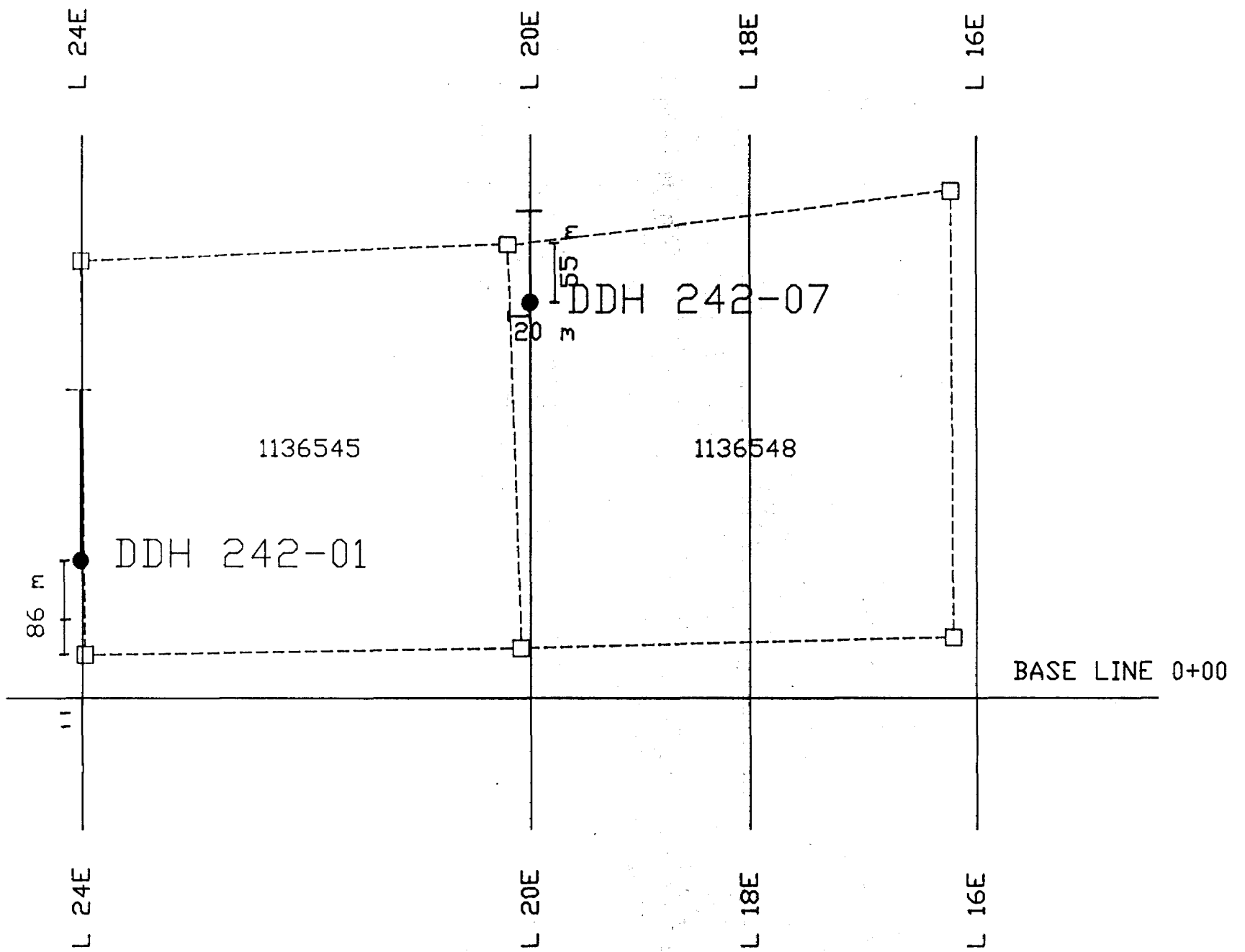
- 1) I am a graduate from Laurentian University, Sudbury, Ontario obtained in May 1980, with an Honours B.Sc. in Geology.
- 2) I have been practising my profession in Canada since 1980.
- 4) I have no direct interest in the properties, leases or securities of TOTAL Energold Corporation.
- 5) I have based conclusions and recommendations contained in this report on knowledge obtained from geophysics and diamond drilling conducted on the property between November 1990 and March 1991.

Dated this 15th day of April, 1991
Timmins, Ontario



Joseph A. MacPherson

APPENDIX 1



TOTAL ENERGOLD CORPORATION			
ST. LAURENT			
LOCATION MAP			
DDH 242-01			
Drawn: J.M.P.	Checked: JMP	Scale: 1:5000	Drawing: SL1LOC
Date: March, 1991	Revised: April, 1991	Province: Ontario	NTS: 32 E/5

ITOTAL ENERGO GOLD CORPORATION

DIAMOND DRILL RECORD

Co-ords: 100N Section: L800E HOLE NO: 242-01
Bearing: 360° Core Size: BQ Property: St. Laurent
Dip: -47° Grid System: Location: St. Laurent Twp.
Elevation: Claim: 1136542, 1136545
Length: 231.01m Date Started: Feb. 13, 1991
Measurement: metres Date Completed: Feb. 18, 1991
Comments: *J. A. MacPherson* Logged By: Joe MacPherson

Depth	Azimuth	Dip	Depth	Azimuth	Dip	Depth	Azimuth	Dip
18.29		-47°	121.95		-38°	232.01		-35°
60.98		-40°	182.93		-35°			

LOG SUMMARY

FROM	TO	LITHOLOGY
0.00	17.07	CASING
17.07	32.60	RHYOLITE TO DACITE FLOWS
32.60	47.30	ASSEMBLAGE OF FELSIC TUFF, LAPILLI TUFF AND AGGLOMERATE, SERICITIZED, LOCALLY SILICIFIED
47.30	79.50	COARSE FELSIC FRAGMENTALS: LAPILLI TUFF TO AGGLOMERATE
79.50	92.84	INTERBEDDED FELSIC TUFF, CRYSTAL TUFF AND THIN DACITIC TO RHYOLITIC FLOWS
92.84	97.20	FELSIC TUFF WITH ARGILLACEOUS MATRIX
97.20	103.60	FELSIC APHANITIC RHYOLITE AND FINE-GRAINED TUFFS
103.60	151.69	MASSIVE QUARTZ EYE RHYOLITE
151.69	154.34	SERICITIC FELSIC TUFFS
154.34	158.70	SILICEOUS INTERFLOW SEDIMENTS
158.70	163.14	RHYOLITE FLOW
163.14	166.65	GRAPHITIC SHEAR ZONE
166.65	171.80	MASSIVE RHYOLITE FLOW WITH GRAPHITIC FRACTURES
171.80	175.57	GRAPHITIC SHEAR ZONE AND BRECCIATED RHYOLITE
175.57	182.55	SILICIFIED TECTONIC BRECCIA
182.55	189.87	MIXED ASSEMBLAGE OF PYRITIC ARGILLITE AND FELSIC TUFF TO LAPILLI TUFF
189.87	221.29	VARIABLY ALTERED FELSIC VOLCANIC FLOWS AND FINE TUFFS
221.29	232.01	MASSIVE RHYOLITE FLOWS
	232.01	END OF HOLE

TOTAL ENERGO GOLD CORPORATION

HOLE NO: 242-01

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FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
0.00	17.07	OVERBURDEN					
17.07	32.60	RHYOLITE TO DACITE FLOWS Sequence of massive to strongly foliated felsic flows, varying in composition from rhyolite to dacite. Dacite flows are fine to medium grained, and consist of approximately equal amounts of feldspar and quartz, often exhibiting an ophitic growth, imparting a lathe-like appearance to the flow. The rhyolite is massive aphanitic and hard. Both rock types are variably altered and sericitic. The rhyolites are more highly altered, lime green and exhibit numerous slip planes at 60° to the C.A. The dacite flows, although altered, are not as obviously sericitic as the rhyolites. No sulfide mineralization noted.	20601 20602	19.45 31.30	20.12 32.60	0.67 1.30	0 0
		19.45 to 20.12 10 cm rusty shear at 19.55 meters, and a 20 cm rusty quartz ankerite vein centered at 19.90 meters. Trace pyrite in rusty quartz vein. Rusty shear is broken and very fissile.					
		31.30 to 32.60 section contains 2 quartz ankerite chlorite veins, 5-10cm wide, trace pyrite, hosted by a well foliated and sericitic rhyolite.					
32.60	47.30	ASSEMBLAGE OF FELSIC TUFF, LAPILLI TUFF AND AGGLOMERATE, SERICITIZED, LOCALLY SILICIFIED Complex section of thinly bedded tuffs, highly altered and sheared. General gradation down the hole to coarser fragmentals. Clast types are: massive aphanitic rhyolite (40%), quartz eye rhyolite (40%), argillite (15%), and less than 5% pyrite and/or pyrite/graphitic argillite. Largest lapilli noted was 6 cm in dimension. Both clasts and host rock of the tuffs are highly altered, and the host is also locally silicified. 5% chloritic stringers at random angles to the C.A. Strong foliation and local shearing at 55° to the C.A. Contacts are generally gradational between tuff units, although the finer units are well sorted. All clasts are angular. No crystal tuff noted. Note: samples taken on the basis of geological contacts and/or changes in intensity of alteration.	20603 20604 20605 20606 20607 20608 20609 20610 20611 20612 20613	32.60 33.50 34.90 35.52 36.50 37.18 38.60 40.00 41.75 43.25 44.90	33.50 34.90 35.52 36.50 37.18 38.60 40.00 41.75 43.25 44.90	0.90 1.40 0.62 0.98 0.68 1.42 1.40 1.75 1.50 1.65 2.40	0 0 7 0 0 0 0 0 10 0 0

TOTAL ENERGO GOLD CORPORATION

HOLE NO: 242-01

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FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
		32.60 to 33.50 25% irregular quartz ankerite veining, intense sericitic slips at 55° to the C.A. Narrow 1 cm quartz veinlet at 10° to the C.A.					
		33.50 to 34.90 5% quartz ankerite veining, local 10-20 cm of intense sericite alteration.					
		34.90 to 35.52 Light grey, possibly interflow sediments. Trace pyrite.					
		35.52 to 36.50 Brecciated, fractured (chloritic), 15% quartz ankerite veining, local narrow intense sericitic shears (5 cm wide).					
		36.50 to 37.18 Silica-flooded and strongly sericitic - original texture obliterated. Grey to lime green, trace pyrite.					
		37.18 to 38.60 20 cm quartz ankerite vein at start of this predominantly tuffaceous section. Moderately to strongly sericitic, forming strong schistosity at 50 degrees to the CA.					
		38.60 to 40.00 Predominantly tuff, with a few lapilli size fragments. Notable for a few 1 cm rounded fragments of pyritic argillite. Continued strong to intense alteration.					
		40.00 to 41.75 Tuff, sericitic, locally silicified, tr pyrite, occasional argillaceous slip, tr pyrite.					
		41.75 to 43.25 Tuff, coarsening towards the end of the section to lapilli tuff. Fragments up to 3 cm in largest dimension. Larger fragments more sericitic than the matrix.					
		43.25 to 44.90 25 cm graphitic shear at top of section. Below this the tuff/lapilli tuff is intensely sheared and altered to sericite and quartz. 1-2% cubic pyrite.					
		44.90 to 47.30 80% core recovery. Broken and quartz veined lapilli tuff. 5% white quartz veins at a variety of angles to the CA. 1% pyrite an average. 1cm massive pyrite at 47.30 meters.					
47.30	79.50	COARSE FELSIC FRAGMENTALS: LAPILLI TUFF TO AGGLOMERATE Poorly sorted felsic fragmental with clasts					

TOTAL ENERGO GOLD CORPORATION

HOLE NO: 242-01

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FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
		<p>ranging in size from a few millimeters to in greater than 10 cm. All fragments are felsic and vary in composition from massive aphanitic to quartz eye to feldspar phyric (dacite). Matrix is distinctive black, fine grained, argillaceous, and possibly locally graphitic. Matrix unaltered, some felsic fragments are weakly sericitized. Overall, unit is poorly sorted, and all fragments are angular, with the exception of the small ones, which are subrounded to rounded. Nil pyrite. Upper contact with altered lapilli tuff is very sharp - possibly a shear contact between blocks in a wide shear zone??</p> <p>Below 58.2 meters, the matrix gradually becomes lighter in colour and more siliceous. Composition of the clasts is the same, and the rock is essentially unaltered. A weak local calcite crackle fracture is present.</p>					
79.50	92.84	<p>INTERBEDDED FELSIC TUFF, CRYSTAL TUFF AND THIN DACITIC TO RHYOLITIC FLOWS</p> <p>Medium grey, siliceous, hard. Beds vary from a few cm to 30 cm thick and often exhibit sharp contacts at 65 degrees to the CA. Occasional weak sericitic wisps. Tuffaceous beds are clast-supported - mainly felsic quartz eye rhyolite to aphanitic rhyolite. Occasional lapilli size clast may be present. Crystal tuffs are usually quartz eye bearing, with occasional minor feldspar. Dacite flows are fine grained to locally medium grained and feldspar phenocryst-rich. The fine grained tuffs may contain up to 0.5% cubic pyrite. Rare white quartz vein.</p> <p>Below 81 meters, the unit is almost entirely composed of lapilli tuff, with individual lapilli up to 6 cm in size. Fragment types vary from aphanitic rhyolite to quartz eye rhyolite to dacite. Sericite continues to be present only as thin irregular wisps. Occasional very small (mm size) fuchsitic fragment present. Tr cubic pyrite throughout.</p>					
92.84	97.20	<p>FELSIC TUFF WITH ARGILLACEOUS MATRIX</p> <p>Black, well foliated to locally sheared at 60 degrees to the CA. Fragments range from 1-2</p>	20614	96.10	96.60	0.50	0

TOTAL ENERGO GOLD CORPORATION

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FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
		mm to 1 cm and rarely larger. They consist of individual quartz and feldspar grains, and larger (up to 1 cm) felsic rock fragments (aphanitic to quartz eye rhyolite) and rare lapilli size fragments of varying composition. Locally sheared and quartz veined, no pyrite noted.					
		96.10 to 96.60 Shear zone with a 15 cm white quartz vein, no pyrite, chloritic fractures. No alteration.					
		After 96.60 the rock becomes more foliated is cut by narrow shears, very chloritic, and usually occupied by white quartz veins intruding parallel to foliation.					
97.20	103.60	FELSIC APHANTIC RHYOLITE AND FINE-GRAINED TUFFS	20615	97.20	98.50	1.30	7
		Fine-grained rhyolite and minor tuff, moderately to locally strongly altered and sheared over 5-15 cm. Grades from the overlying black argillite-matrix tuff to a light grey-green colour. Numerous distinct sericite stringers oriented at 70 degrees to the CA. Lower contact sharp and marked by 2 cm fault gouge and 1 15 cm white quartz vein.	20616	98.50	99.37	0.87	10
			20617	99.37	100.85	1.48	0
			20618	100.85	102.41	1.56	0
			20619	102.41	103.60	1.19	10
		Shear zones noted at: 92.44 (20 cm)-argillaceous;					
		99.25 (10 cm)-sericitic, unconsolidated gouge;					
		102.65 (1 cm)-sericitic;					
		103.50 (2 cm)-sericitic, unconsolidated gouge					
		97.20-98.50 Locally sheared, 5% white quartz veining, 1-2% disseminated pyrite at 97.40 meters, in argillaceous shear.					
		98.50-99.37 As above, shear is sericitic. 2% white quartz veining. Weakly pyritic at 98.90 meters.					
		99.37-100.85 Sericitic flows, 1% grey crackle fracture, tr pyrite, 1% white quartz veining.					
		100.85-102.41 As above.					
		102.41-103.60 As above, 15 cm white quartz vein at lower contact.					

TOTAL ENERGOLD CORPORATION

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FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
103.60	151.69	MASSIVE QUARTZ EYE RHYOLITE Massive, light greenish-grey, moderately to locally very hard. Distinctive feature is 5% rounded grey translucent quartz eyes and occasional fuchsitic fragment (highly altered mafic rock fragment or ash?). Also, 3% masses of yellow sericite/ankerite, which may be the alteration product of a third type of fragment. 1% random grey quartz-filled crackle fractures, tr pyrite. Locally broken and ground, but otherwise quite competent. Grading into short sections (maximum 20 cm) of feldspar phyric flow at: 116.05m, 121.30m, 122.25m, 122.85m 133.80 3 cm white quartz vein associated with 2 cm of unconsolidated fault gouge. Below 140.00 meters, the core takes on a weak foliation oriented at 65-70 degrees to the CA. Also, there are 2-3% grey quartz-filled random fractures below this point as well. 140.00-143.00 1 meter of ground core. 144.15-151.69 Increasing sericite content and degree of foliation.					
151.69	154.34	SERICITIC FELSIC TUFFS Strongly foliated at 55 degrees to the CA. Foliation formed by parallel alignment of sericite wisps and masses. Local fault gouge, as at 151.75 meters. Minor quartz veining associated with these faults. Tr pyrite. 151.69-153.30 Sericitic, 10% grey quartz carbonate veinlets and masses parallel to foliation. Tr pyrite. 153.30-154.34 As above. 40 cm of strong faulting with gouge and 20% white quartz veining centered at 154.15 meters. Tr pyrite.	20620 20621	151.69 153.30	153.30 154.34	1.61 1.04	7 0
154.34	158.70	SILICEOUS INTERFLOW SEDIMENTS Moderately silicified, dark grey to black, not sericitic, moderately foliated at 60 degrees to the CA. 15 cm of unconsolidated fault gouge at					

TOTAL ENERGOLD CORPORATION

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FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
		155.50 meters. 5 cm crack-seal grey quartz vein at 155.15 meters. Tr pyrite in sericitic fractures in vein.					
		154.34-155.80 Weakly sericitic, faulted, 2% grey crack-seal quartz veining at 155.15 meters. Tr pyrite.					
158.70	163.14	RHYOLITE FLOW Strongly deformed and brecciated, very weakly sericitic. Crackle fracture common, weak foliation developed at 55 degrees to the CA.					
163.14	166.65	GRAPHITIC SHEAR ZONE Very fissile, rock highly deformed, local 100% graphite, minor pyrite and quartz veining. Intense shearing at 65 degrees to the CA.	20622	163.14	163.70	0.56	0
		163.70 to 165.00 100% graphitic fault gouge. Totally unconsolidated.					
		163.14-163.70 60% graphite, 5% late quartz veining, 1% pyrite.					
166.65	171.80	MASSIVE RHYOLITE FLOW WITH GRAPHITIC FRACTURES Massive dark grey rhyolite is cut by 15-25% random fractures, filled with graphite-chlorite. Minor 1 cm fault gouge. Local sericitic patches contain black quartz ankerite stringers with 1-4% very finely disseminated arsenopyrite. The arsenopyrite-bearing sections occur from 166.65-167.6, from 168.50-169.00, and at 170.45, 171.20. The sulphide is very subtle and difficult to observe under 20X lens. Distinguishing characteristic for arsenopyrite-bearing rock is slight increase in pervasive sericite, imparting a light green tinge to the otherwise grey rock.	20623 20624 20625 20626 20627 20628 20629 20630 20631	166.65 167.60 168.50 169.00 169.50 170.00 170.50 171.00 171.55 171.80	167.60 168.50 169.00 169.50 170.00 170.50 171.00 171.55 171.80	0.95 0.90 0.50 0.50 0.50 0.50 0.50 0.55 0.55 0.25	17 0 0 0 0 0 0 0 0 0
		166.65 to 167.60 Numerous sightings of fine arsenopyrite in narrow irregular black quartz ankerite veinlets. Light green tinge to section on average. Tr pyrite.					
		167.60 to 168.50 Crackle-fractured siliceous rhyolite. 25% irregular fractures filled with graphite and chlorite. Tr pyrite.					

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HOLE NO: 242-01

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FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
		168.50 to 169.00 Arsenopyrite-bearing section, as per 166.65-167.60.					
		169.00 to 169.50 Crackle fractured siliceous rhyolite. 10% graphite-chlorite fractures. Tr pyrite.					
		169.50 to 170.00 As above. 10% graphite-chlorite fractures.					
		170.00 to 170.50 As above. 15% fractures. Slight greenish tinge to rock locally, but no arsenopyrite noted. Tr pyrite.					
		170.50 to 171.00 As above. 20% fractures.					
		171.00 to 171.55 As above. Lower contact sheared, chloritic and graphitic. 1 sight arsenopyrite noted.					
		171.55 to 171.80 Mixed graphitic shear and siliceous fractured rhyolite.					
171.80	175.57	GRAPHITIC SHEAR ZONE AND BRECCIATED RHYOLITE	20632	171.80	173.00	1.20	0
		Local intense graphitic shears cutting brecciated and locally sericitic rhyolite. Section is broken and crushed - core recovery 60%.	20633	173.00	174.00	1.00	0
		Local minor pyrite, arsenopyrite and chalcopyrite, always in black quartz ankerite veinlets or masses. The graphite-chlorite fracture fillings are mostly absent in this section, compared with the previous section.	20634	174.00	175.57	1.57	0
		171.80 to 173.00 Numerous strong graphitic shears, core broken, recovery 60%.					
		173.00 to 174.00 Broken core, mainly brecciated rhyolite.					
		174.00 to 175.57 60% recovery, local bits of sericitic rhyolite with tr arsenopyrite.					
175.57	182.55	SILICIFIED TECTONIC BRECCIA	20635	175.57	175.95	0.38	0
		Felsic volcanic fragments, angular and widely varying in size, hosted by a black aphanitic matrix composed of graphite and chloritic argillite (??), strongly silicified, locally pyritic.	20636	176.95	177.50	0.55	10
		Two kinds of pyrite are present. The first is	20637	177.50	178.00	0.50	7
			20638	178.00	178.50	0.50	17
			20639	178.50	179.00	0.50	0
			20640	179.00	179.50	0.50	14

TOTAL ENERGO GOLD CORPORATION

HOLE NO: 242-01

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FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
		fine-grained and has a dull lustre. It occurs as masses within the argillaceous matrix of the breccia. The second type of pyrite has a brighter lustre and is coarser-grained, occurring as cubes and local masses with white to light grey quartz carbonate veinlets and in narrow fractures crosscutting both matrix and breccia fragments.	20641	179.50	180.00	0.50	10
			20642	180.00	180.50	0.50	14
			20643	180.50	181.00	0.50	0
			20644	181.00	181.50	0.50	14
			20645	181.50	182.00	0.50	10
			20646	182.00	182.55	0.55	17
		175.57 to 176.95 Black, fine-grained, foliated at 60 degrees to the CA. 5% felsic rock fragments up to 1 cm dimension. Tr pyrite only. Brecciation and accompanying silicification starts at 176.95 meters and increase in intensity down the hole. Percentage of quartz veining also increase down the hole. Higher pyrite contents appear to be associated with increase intensity of silicification.					
		176.95 to 177.50 Heterolithic breccia, although all fragments are felsic. Tr pyrite in silicified sections, which are short (10 cm) but increase in intensity and frequency towards the lower contact.					
		177.50 to 178.00 Moderate pervasive silicification. Some felsic fragments sericitic. 2% pyrite, mainly as masses within the black matrix of the breccia. 1% white irregular quartz veining.					
		178.00 to 178.50 As above. 2% pyrite in matrix.					
		178.50 to 179.00 3-5% pyrite, all in fractures or in narrow quartz ankerite veins within the black siliceous matrix of the breccia. Few breccia fragments in this section.					
		179.00 to 179.50 Strongly silicified. 3% pyrite, as masses and a minor amount in fractures with quartz.					
		179.50 to 180.00 1% pyrite, 10% white irregular quartz veining, no pyrite in veins.					
		180.00 to 180.50 5% fine pyritic masses in black siliceous matrix. A further 2-3% bright pyrite in 10% narrow CA-parallel quartz ankerite stringers.					

TOTAL ENERGOLD CORPORATION

HOLE NO: 242-01

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FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
	180.50 to 181.00	Low-angle quartz-pyrite stringers, 10% pyrite.					
	181.00 to 181.50	As above. quartz stringers crenulated at 60 degrees to CA (same as general foliation).					
	181.50 to 182.00	20% CA-parallel quartz veining, 25% massive and bright pyrite.					
	182.00 to 182.55	20% sedimentary (dull lustre) pyrite. 10% bright pyrite in quartz veins.					
	Below 182.55 meters, the intensity of silicification decreases, as does the intensity of brecciation. The core takes on a more sedimentary appearance, as evidenced by the appearance of highly contorted fine grained bands of pyrite.						
182.55	189.87	MIXED ASSEMBLAGE OF PYRITIC ARGILLITE AND FELSIC TUFF TO LAPILLI TUFF	20647	182.55	183.00	0.45	14
			20648	183.00	183.50	0.50	10
			20649	183.50	184.00	0.50	14
		Complex assemblage of sediments and felsic tuffs, Generally, the tuffaceous rocks are moderately sericitic, while the sediments appear unaltered, with the exception of local minor silicification and quartz veining. The argillaceous units are usually cut by several graphitic shears. The result is broken and crushed rock and poor core recoveries in these sections.	20650	184.00	184.50	0.50	17
			20651	184.50	185.00	0.50	14
			20652	185.00	185.50	0.50	17
			20653	185.50	186.00	0.50	10
			20654	186.00	186.50	0.50	14
			20655	186.50	187.00	0.50	10
			20656	187.00	187.50	0.50	14
			20657	187.50	188.00	0.50	7
			20658	188.00	188.50	0.50	0
			20659	188.50	189.00	0.50	14
			20660	189.00	189.87	0.87	14
	182.55 to 185.00	Generally argillite, cut by several graphitic shears, at 184.28, 184.58 and 185.55 meters. 3% pyrite on average.					
	182.55 to 183.00	25% grey quartz ankerite veining at 20 degrees to the CA, containing 10% pyrite along the vein margins. A further 5% pyrite in narrow irregular fractures. Moderately silicified.					
	183.00 to 183.50	Breccia. Large fragments, tr pyrite.					
	183.50 to 184.00	Graphitic shear at 183.40. 5%					

TOTAL ENERGO GOLD CORPORATION

HOLE NO: 242-01

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FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
		pyrite in black silicified matrix of breccia.					
		184.00 to 184.50 2 cm sericitic shear at 184.05. 15 cm grey quartz ankerite vein with 3% pyrite as masses from 184.5-184.65 m. Overall, moderately silicified.					
		184.50 to 185.00 Sericitic and brecciated towards the lower contact. 1% pyrite.					
		185.00 to 185.50 30 cm of weakly sericitic and crackle fractured massive felsic volcanic. Tr pyrite. Fractures filled with grey quartz.					
		185.50 to 186.00 2 cm graphitic/sericitic fault gouge at 185.97 meters. Becoming moderately sericitic towards end of section. 1% pyrite, 3% dark grey quartz ankerite stringers.					
		186.00 to 186.50 Moderately sericitic, patchy silicification, tr pyrite. 2% black quartz ankerite stringers.					
		186.50 to 187.00 Last 20 cm is black fractured quartz vein with tr pyrite in fractures.					
		187.00 to 187.50 Dark grey to black quartz vein. Last 20 cm faulted and broken core. Poor recovery (80%). 1% pyrite.					
		187.50 to 188.00 Faulted upper contact, continuing weakly silicified, sericitic. 2% masses of pyrite.					
		188.00 to 188.50 Grey with light green tinge. 3% black irregular quartz crackle fracture. 2% pyrite.					
		188.50 to 189.00 As above.					
		189.00 to 189.87 Broken core. Black, weakly silicified, occasional sericitic wisp. 1 cm unconsolidated graphitic fault gouge at lower contact.					
189.87	221.29	VARIABLELY ALTERED FELSIC VOLCANIC FLOWS AND FINE TUFFS	20661	192.85	193.85	1.00	0
		Sharp upper contact with argillaceous/graphitic shear zone at 189.87 meters. Section is a	20662	195.20	196.05	0.85	0
			20663	199.00	200.00	1.00	14
			20664	203.33	207.77	4.44	10
			20665	215.25	216.27	1.02	10

TOTAL ENERGO GOLD CORPORATION

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FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
		mixture of light greenish grey to black. The latter is due to intense fracturing and subsequent fracture filling by black quartz ankerite veinlets. Tr overall, locally 2-3% in areas of more intense fracturing. 1% white quartz veining in sericitic sections only.	20666	216.27	217.55	1.28	0
		192.85 to 193.85 Mixed sericitic and black fractured zone. 15 cm quartz sericite vein in sericitic volcanics, tr pyrite in black fractured volcanics.					
		195.20 to 196.05 Strongly fractured and brecciated felsic volcanic. Minor sericitic sections. 1% white quartz veining. 0.5% disseminated pyrite.					
		199.00 to 200.00 Fine grained, massive, black and silicified. 1-2% disseminated pyrite. May be originally a fine grained felsic tuff.					
		203.33 to 203.77 10 cm sericitic and pyritic fault. 5% pyrite, 10% quartz in fault zone. Remainder of section is massive siliceous rhyolite.					
		Below 203.77 meters, the core continues to consist of alternating black fractured section and moderately foliated sericitic sections. Pyrite content and amount of quartz veining is low.					
		215.25 to 217.55 Sericitic Shear Zone. Massive sericitic sections cut by 25% black quartz ankerite veinlets parallel to foliation (at 55 degrees to CA). Veins contain 1% fine disseminated pyrite.					
		215.25 to 216.27 Sericitic, light green to greenish grey, 10% black quartz ankerite veins, tr pyrite.					
		216.27 to 217.55 As above, 0.5-1% pyrite.					
221.29	232.01	MASSIVE RHYOLITE FLOWS Not altered, medium grey, very siliceous, minor fracturing, no pyrite. Aphanitic to locally quartz eye bearing.					
232.01		END OF HOLE					

TOTAL ENERGOLD CORPORATION

HOLE NO: 242-01

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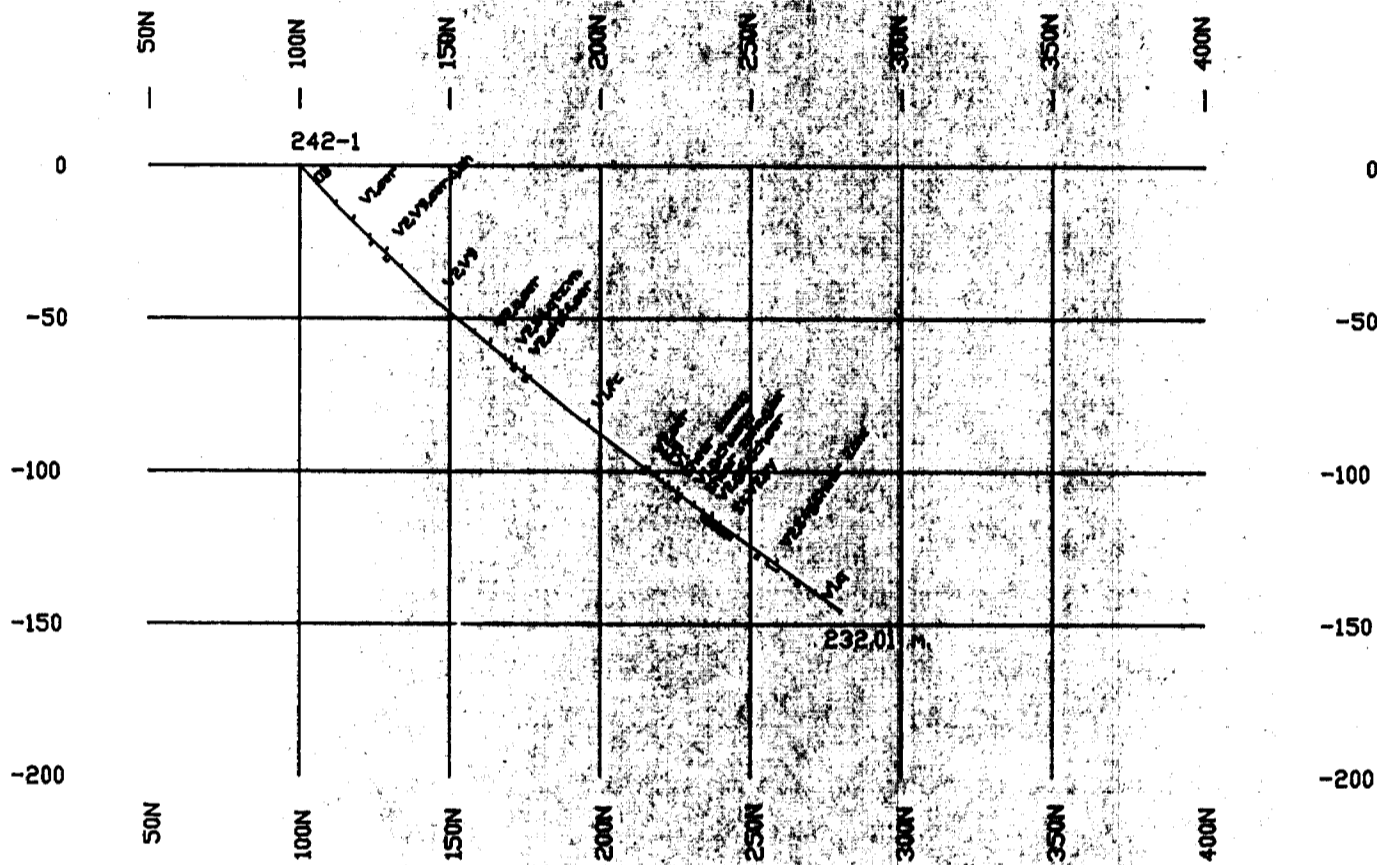
SAMPLE #	FROM	TO	LENGTH	Cu (ppm)	Zn (ppm)	Ag (ppm)
20601	19.45	20.12	0.67	9	62	
20602	31.30	32.60	1.30	9	85	
20603	32.60	33.50	0.90	30	56	
20604	33.50	34.90	1.40	49	74	
20605	34.90	35.52	0.62	19	70	
20606	35.52	36.50	0.98	26	68	
20607	36.50	37.18	0.68	25	85	
20608	37.18	38.60	1.42	31	80	
20609	38.60	40.00	1.40	27	79	
20610	40.00	41.75	1.75	39	90	
20611	41.75	43.25	1.50	28	79	
20612	43.25	44.90	1.65	29	81	
20613	44.90	47.30	2.40	27	63	
20614	96.10	96.60	0.50	25	46	
20615	97.20	98.50	1.30	60	58	
20616	98.50	99.37	0.87	31	62	
20617	99.37	100.85	1.48	26	59	
20618	100.85	102.41	1.56	39	68	
20619	102.41	103.60	1.19	23	67	
20620	151.69	153.30	1.61	30	66	
20621	153.30	154.34	1.04	19	57	
20622	163.14	163.70	0.56	61	92	
20623	166.65	167.60	0.95	9	45	
20624	167.60	168.50	0.90	6	26	
20625	168.50	169.00	0.50	5	19	
20626	169.00	169.50	0.50	8	33	

TOTAL ENERGOLD CORPORATION

HOLE NO: 242-01

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SAMPLE #	FROM	TO	LENGTH	Cu (ppm)	Zn (ppm)	Ag (ppm)
20627	169.50	170.00	0.50	7	30	
20628	170.00	170.50	0.50	8	27	
20629	170.50	171.00	0.50	11	25	
20630	171.00	171.55	0.55	5	25	
20631	171.55	171.80	0.25	8	27	
20632	171.80	173.00	1.20	9	40	
20633	173.00	174.00	1.00	6	35	
20634	174.00	175.57	1.57	71	34	
20635	175.57	176.95	1.38	62	67	
20636	176.95	177.50	0.55	29	31	
20637	177.50	178.00	0.50	144	111	
20638	178.00	178.50	0.50	74	137	
20639	178.50	179.00	0.50	135	125	
20640	179.00	179.50	0.50	164	26	
20641	179.50	180.00	0.50	75	25	
20642	180.00	180.50	0.50	101	27	
20643	180.50	181.00	0.50	126	22	
20644	181.00	181.50	0.50	170	58	
20645	181.50	182.00	0.50	185	52	
20646	182.00	182.55	0.55	271	219	
20647	182.55	183.00	0.45	295	31	
20648	183.00	183.50	0.50	53	58	
20649	183.50	184.00	0.50	126	54	
20650	184.00	184.50	0.50	152	63	
20651	184.50	185.00	0.50	204	41	
20652	185.00	185.50	0.50	10	67	



LEGEND

VOLCANICS

- V2 Felsic
- V4 Intermediate
- V7 Basalt
- V9 Tuff
- V10 Agglomerate

SEDIMENTS

- S3 Greywacke
- S4 Argillite

INTRUSIVES

- I1 Felsic
- I6 Diabase

- ob overburden
- fl fault
- bx breccia
- p pillowed
- qv quartz vein

- gf graphite
- ser sericite
- fo fuchsite
- cb carbonised
- sl sillified
- sl slightly
- alt altered

- py pyrrhotite
- py pyrite
- cpy arsenopyrite
- mt magnetite
- Fe iron stibnite

- IP Induced Polarization Anomaly



TOTAL ENERGOLD CORPORATION

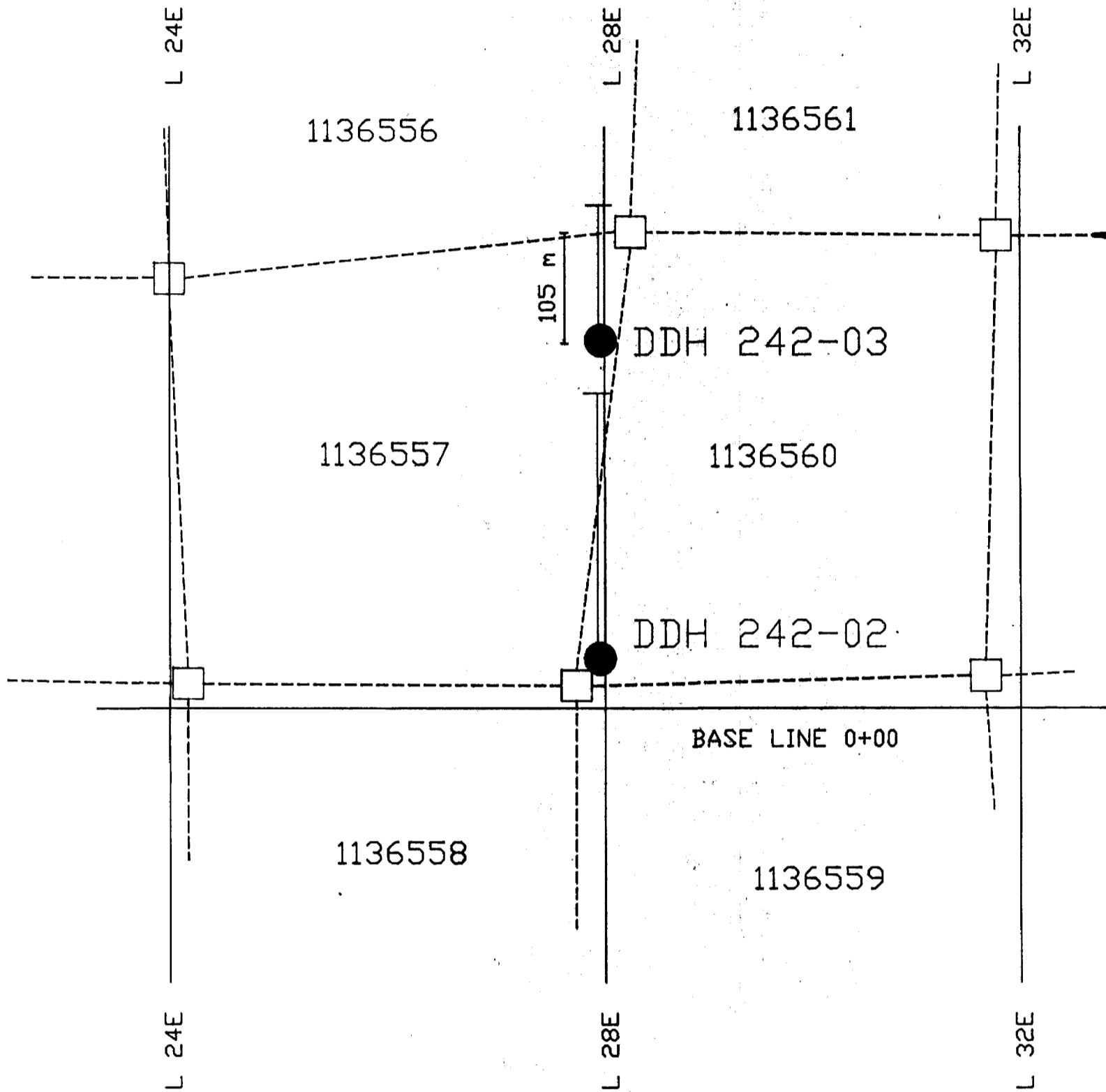
ST. LAURENT

**DDH 242-1
Section 8+00 E
Facing West**

JMP

Drawn: J.J.P.	Checked: J.P.	Scale: 1:2500	Drawing: SL-1
Date: March, 1991	Revised: March, 1991	Province: Ontario	NIS: 32 E/5

0 20 40 60 80 METRES



TOTAL ENERGOLD CORPORATION			
ST. LAURENT			
LOCATION MAP			
DDH 242-02			
Drawn: J.M.P.	Checked: J.M.P.	Scale: 1:5000	Drawing: SL2-LOC
Date: March, 1991	Revised: March, 1991	Province: Ontario	NTS: 32 E/5

TOTAL ENERGO GOLD CORPORATION

DIAMOND DRILL RECORD

Co-ords: 25N Section: L2800E HOLE NO: 242-02
Bearing: 360° Core Size: BQ Property: St. Laurent
Dip: -45° Grid System: Location:
Elevation: Claim: 1136557, 1136560
Length: 367.63m Date Started: Feb. 16, 1991
Measurement: metres Date Completed: Feb. 21, 1991
Comments: Logged By: Joe MacPherson

J. A. MacPherson

Depth	Azimuth	Dip	Depth	Azimuth	Dip	Depth	Azimuth	Dip
15.24		-46°	239.63		-35°			
91.46		-45°	365.85		-22°			
163.42		-38°						

LOG SUMMARY

FROM	TO	LITHOLOGY
0.00	10.37	OVERBURDEN
10.37	150.17	MASSIVE MAFIC METAVOLCANIC FLOWS: IRON THOLEIITIC BASALT
150.17	176.85	INTERBEDDED ARGILLITE, INTERMEDIATE TUFF AND JASPER IRON FORMATION
176.85	190.95	CHERT-JASPER IRON FORMATION WITH GRAPHITIC INTERBEDS
190.95	197.05	INTERBEDDED GREYWACKE, GREY-GREEN CHERT AND JASPER IRON FORMATION
197.05	227.00	CLASTIC METASEDIMENTS: MEDIUM TO COARSE GREYWACKE
227.00	230.09	MODERATELY SHEARED AND SERICITIZED GREYWACKE
230.09	236.50	MIXED SEQUENCE OF CHEMICAL AND CLASTIC METASEDIMENTS
236.50	244.14	INTERBEDDED ARGILLITE AND FINE CLASTIC METASEDIMENTS
244.14	246.69	FRACTURED AND BRECCIATED CHERT
246.69	277.17	CLASTIC METASEDIMENTS
277.17	286.69	SHEARED GRAPHITIC AND SERICITIC ARGILLITE
286.69	293.84	FINE GRAINED CLASTIC METASEDIMENTS
293.84	324.93	FELSIC TUFF OR QUARTZ FELDSPATHIC METASEDIMENT
324.93	340.56	INTERBEDDED CHERT, GRAPHITE AND FINE GRAINED ARGILLITE
340.56	367.63	FINE GRAINED CLASTIC METASEDIMENT
	367.63	END OF HOLE

TOTAL ENERGOLD CORPORATION

HOLE NO: 242-02

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FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
0.00	10.37	OVERBURDEN Clay, sand, gravel, boulders near bedrock.					
10.37	150.17	MASSIVE MAFIC METAVOLCANIC FLOWS: IRON THOLEIITIC BASALT Thick unit of massive, medium green, fine to locally medium grained iron tholeiitic flows. Weakly chloritic, nil pyrite, 1% irregular quartz calcite veining with trace-1% pyrite. Pervasively carbonatized - calcite.	20252	13.10	13.45	0.35	NS
			20253	20.10	20.25	0.15	NS
			20254	58.54	59.45	0.91	NS
			20255	59.45	60.60	1.15	NS
			20256	70.63	72.10	1.47	NS
			20257	81.08	81.66	0.58	NS
			20258	140.55	141.40	0.85	NS
			20259	146.35	147.00	0.65	0
		13.10 to 13.45 Quartz calcite vein, 1% cubic pyrite.					
		13.10 to 13.45 As above.					
		20.10 to 20.25 Quartz calcite vein, 1% cubic pyrite.					
		20.10 to 20.25 As above.					
		Amygdaloidal from 29.26-31.00 meters.					
		38.11 to 58.54 Fault Zone. Broken rock, 80% core recovery, rock is very soft and strongly chloritic.					
		58.54 to 60.60 Quartz stringer zone. 15% irregular quartz stringers at various angles to the C.A. Quartz only, no calcite, and the wallrock is not pervasively calcitic as it is above and below the section. Veins contain 5-10% specular hematite and 1% pyrite. Wallrock is moderately to strongly chloritic, medium green, and moderately soft.					
		58.54 to 59.45 15% quartz veining, 3% hematite and 1% pyrite in veins.					
		59.45 to 60.60 15% quartz veining, 10% hematite and 1% pyrite in veins.					
		Below 60.60 meters, the rock is massive, medium green, calcitic iron tholeiitic basalt.					
		70.75 5 cm band of jasper-magnetite iron formation. Moderately magnetic, banded at 45° to the C.A.					

TOTAL ENERGOLD CORPORATION

HOLE NO: 242-02

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FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
		70.63 to 72.10 3% quartz veining, minor magnetite in veins, trace pyrite. Minor pyrite in jasper IF at 70.75 meters.					
		81.08 to 81.66 20 cm quartz vein with 25% disseminated magnetite, 1% pyrite.					
		89.80 20 cm of weak shearing at 60° to the C.A.					
		Further down the section, notably past 110 meters, the rock becomes lighter green with a greyish tinge, and is slightly harder, reflecting a gradation towards more intermediate composition.					
		132.69 to 147.00 Zone of weak shearing and white quartz veining. Weak sericite development. Trace pyrite. Weak foliation at 65° to the C.A.					
		140.55 to 141.40 15% white quartz veining in weak shear, chloritic wallrock, trace pyrite.					
		146.35 to 147.00 25 cm quartz vein with chloritic inclusions and wallrock. Trace pyrite in vein.					
50.17	176.85	INTERBEDDED ARGILLITE, INTERMEDIATE TUFF, AND JASPER IRON FORMATION	20260	150.17	151.75	1.58	0
			20261	156.28	157.07	0.79	7
			20262	165.05	166.17	1.12	0
		Complex section of interbedded fine-grained, foliated and weakly sericitic argillite, fine grained to medium grained greywacke, and very hard jasper iron formation. For the most part, the rocks are unaltered and undeformed. Exceptions to this are the occasional thin argillaceous bed, which may exhibit strong foliation and weak sericite development. Locally the jasper iron formation may be brecciated and fractured, and cut by late quartz veins. Overall, sulphide mineralization is trace, with local sections of jasper partially replaced by up to 2% cubic pyrite.	20263	170.75	171.55	0.80	0
			20264	171.55	172.50	0.95	0
		150.17 to 151.75 Weakly sericitic argillite interbedded with fractured and quartz veined grey-green chert. 5% white quartz veining in cherty beds. 30% white irregular quartz veining with sericitic inclusions in the last 50 cm. Trace					

TOTAL ENERGO GOLD CORPORATION

HOLE NO: 242-04

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FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
		pyrite.					
	150.17 to 151.75	Interbedded quartz veined grey-green chert and sericitic argillite. Trace pyrite.					
	151.75 to 156.28	Predominantly interbedded argillite and fine grained greywacke. Bedding contacts indistinct, but a weak foliation is oriented at 55° to the C.A.					
	156.28 to 157.07	Brecciated and quartz veined jasper iron formation. 15% white irregular quartz veins, at various angles to the C.A.					
	156.28 to 157.07	Brecciated jasper IF. Trace pyrite. 15% quartz veinlets.					
	157.07 to 162.50	Intermediate tuff. 10% mafic rock fragments, massive, unaltered.					
	162.50 to 163.87	Thinly bedded grey-green chert. Top 20 cm quartz veined and brecciated.					
	163.87 to 165.05	Fine grained intermediate tuff, 10% mafic rock fragments, minor black quartz veinlets.					
	165.05 to 167.38	Interbedded jasper iron formation, grey-green chert. Locally brecciated and quartz veined - these sections may contain up to 2% pyrite. Jasper beds vary in width from a few mm to 10 cm and are oriented at 70° to the C.A. Local slumping to 30° to the C.A. 1% disseminated cubic pyrite in jasper beds.					
	165.05 to 166.17	Brecciated and quartz veined grey-green chert and minor JIF. 2% pyrite in fractures and as cubes within white quartz veins.					
	167.38 to 170.75	Greywacke. Fine grained, 10% rock fragments (chloritic), trace pyrite. Very minor quartz chlorite veining.					
	170.75 to 172.50	Interbedded grey-green chert and JIF. Weakly brecciated and quartz veined. Minor fracture-controlled pyrite.					

TOTAL ENERGO GOLD CORPORATION

HOLE NO: 242-04

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FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
		172.50 to 176.85 Minor crystal tuff, fine grained argillite, and greywacke. Not altered or quartz veined.					
176.85	190.95	CHERT-JASPER IRON FORMATION WITH GRAPHITIC INTERBEDS	20265	176.85	177.30	0.45	0
			20266	177.30	178.00	0.70	0
		Main iron formation unit. Description similar to previous units of chert-jasper, with the addition of graphitic beds up to 3 cm thick interlayered with the jasper and chert.	20267	178.00	178.50	0.50	0
			20268	178.50	179.00	0.50	0
			20269	179.00	179.50	0.50	14
			20270	179.50	180.00	0.50	0
			20271	180.00	180.50	0.50	0
		176.85 to 181.22 Predominantly interbedded chert and JIF. 60% jasper beds at 65° to the C.A. 40% grey-green chert. 10% fracturing filled with grey-green and white quartz veinlets. 1-2% pyrite in fractures and as individual cubes.	20272	180.50	181.22	0.72	0
			20273	181.22	182.00	0.78	0
			20274	182.00	182.50	0.50	0
			20275	182.50	183.00	0.50	0
			20276	183.00	183.50	0.50	0
			20277	183.50	184.00	0.50	0
			20278	184.00	184.50	0.50	0
		176.85 to 177.30 2-3% narrow quartz stringers with 1% cubic pyrite. A further 1% pyrite in grey-green chert. Specular hematite in C.A.-parallel quartz stringer.					
		177.30 to 178.00 70% brecciated jasper beds. Fractures filled with remobilized grey-green chert.					
		178.00 to 178.50 50:50 grey-green chert & jasper beds, at 65° to the C.A. 3% irregular grey quartz-filled fractures. Trace pyrite.					
		178.50 to 179.00 60% grey-green chert, 1% pyrite.					
		179.00 to 179.50 As above.					
		179.50 First appearance of dark grey to black argillaceous beds, 1-3 cm wide, which grade down the hole to graphitic argillite and eventually to almost 100% graphite.					
		179.50 to 180.00 40% argillite (weakly siliceous), 40% grey-green chert, 20% jasper. 5% C.A.-parallel quartz veining with 2-5% pyrite in veins.					
		180.00 to 180.50 60% grey-green chert, 40% argillite, no jasper. Trace pyrite.					

TOTAL ENERGO GOLD CORPORATION

HOLE NO: 242-02

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FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
		180.50 to 181.22 70% jasper, very minor fracturing and quartz veining.					
		181.22 to 184.50 Very little jasper in section. Composed predominantly of interbedded grey-green chert and graphite, locally strongly fractured and brecciated with 10% narrow (<1 cm) quartz veinlets.					
		181.22 to 182.00 5% fracturing, weak brecciation, trace pyrite.					
		182.00 to 182.50 25% fracturing, 10% quartz veining, 1-2% cubic pyrite. 5% graphitic interbeds, locally slumped subparallel to C.A. and remobilized.					
		182.50 to 183.00 Strongly fractured (50%) and brecciated, 20% quartz veining, traces of jasper (fragments, remobilized beds), trace pyrite.					
		183.00 to 183.50 As above, 30% quartz veining, 2% pyrite, usually at graphitic bed margins.					
		183.50-184.00 20% graphitic beds, sharp contacts at 55° to C.A.					
		184.00 to 184.50 As above.					
		184.50 to 190.95 Jasper beds reappear. Section less brecciated and fractured. Local slumping of chert, at 186 and 187.50 meters. Foliation weak at 60° to the C.A. 5% graphitic beds.					
190.95	197.05	INTERBEDDED GREYWACKE, GREY-GREEN CHERT AND JASPER IRON FORMATION	20279	192.13	193.56	1.43	0
			20280	195.19	195.87	0.68	0
			20281	196.20	197.05	0.85	0
		Similar to section from 150.17 to 176.85 meters. Iron formation contains minor graphitic interbeds.					
		190.95 to 192.13 Massive fine grained greywacke. 2% mafic rock fragments.					
		192.13 to 193.56 40% jasper, 55% grey-green chert, 5% graphitic argillite, well bedded at 65° to the C.A. Minor pyrite in fractures.					

TOTAL ENERGO GOLD CORPORATION

HOLE NO: 242-02

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FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
		192.13 to 193.56 Minor fractures, trace pyrite, local weak brecciation. 2 cm of semi-massive pyrite at end of section, at contact with underlying greywacke.					
		193.56 to 195.19 Greywacke, medium grained, massive.					
		195.19 to 195.87 Chert-jasper unit. 3 cm massive pyrite at top of section. Well bedded at 65° to the C.A. Minor fracturing, no brecciation.					
		195.19 to 195.87 Trace pyrite, except for the first 3 cm of massive pyrite.					
		195.87 to 197.05 Lower contact of chemical sediments section. Sharp contact with underlying clastic metasediments. 50% jasper/grey-green chert, 50% fine grained greywacke.					
		196.20 to 197.05 Jasper-chert, 5 cm at top of section contains 20% banded pyrite.					
197.05	227.00	CLASTIC METASEDIMENTS: MEDIUM TO COARSE GREYWACKE Thick sequence of fine to medium grained greywacke. Thickly bedded; individual beds well sorted. Clast types are: mafic rock fragments-10%, grey quartz-5%, feldspar-10%, white quartz-10%, jasper-<1%. Not altered, very minor quartz veining. Below 221 meters, the core takes on a weak foliation, oriented to 65° to the C.A. The sedimentary unit also becomes coarser grained down the hole, with some clast sizes approaching 0.4 cm.					
227.00	230.09	MODERATELY SHEARED AND SERICITIC GREYWACKE Increasing intensity of alteration and shearing down the hole. Numerous sericitic slips oriented at 65° to the C.A. Colour is banded lime green and light grey, the latter representing weakly silicified layers. Original clasts still visible throughout, indicating relatively low intensity of shearing and alteration.					

TOTAL ENERGOLD CORPORATION

HOLE NO: 242-04

Page No: 8 of 13

FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
230.09	236.50	MIXED SEQUENCE OF CHEMICAL AND CLASTIC METASEDIMENTS	20282	230.09	230.89	0.80	0
		Interbedded chemical metasediments - chert, weak jasper iron formation, and fine grained clastic metasediments - greywacke. The chemical metasediments are siliceous, fractured and locally brecciated. Fractures are filled with white and grey quartz, locally pyrite-bearing. The clastic metasediments are weakly foliated at 70° to the C.A. and may be weakly sericitic.	20283	230.89	231.75	0.86	0
			20284	234.60	234.98	0.38	0
			20285	234.98	236.50	1.52	0
		230.09 to 231.75 Mixed sequence of brecciated chert and jasper iron formation. Jasper brecciated. 102% disseminated and cubic pyrite.					
		230.09 to 230.89 Brecciated grey chert. 25% grey fractures. 1-2% cubic pyrite.					
		230.89 to 231.75 Minor jasper iron formation. 5% grey quartz veinlets parallel to C.A. with trace pyrite.					
		231.75 to 234.60 Weakly sericitic and foliated (at 70° to the C.A.) greywacke. Narrow sericitic slips.					
		234.60 to 236.50 Weakly sericitic and foliated chert and fine grained clastic metasediments.					
		234.60 to 234.98 Jasper IF, 2-3% disseminated pyrite, 5% fracture-filling quartz stringers. Bedding well preserved at 85° to the C.A.					
		234.98 to 236.50 Soft, fine grained impure quartz clast-bearing clastic metasediment. A few strong sericitic slips at 85° to the C.A. Colour is grey with a slight greenish tint.					
236.50	244.14	INTERBEDDED ARGILLITE AND FINE CLASTIC METASEDIMENTS					
		Moderately to strongly sericitized and deformed fine grained sedimentary sequence. Strongly foliated at 80° to the C.A. Trace pyrite. 2% foliation-parallel white quartz veining.					
244.14	246.69	FRACTURED AND BRECCIATED CHERT	20287	245.10	245.50	0.40	0
		Locally well bedded grey-green chert, brecciated and quartz veined. 2% disseminated cubic pyrite in brecciated chert and grey silicified zones. 5% white quartz veins with	20288	245.50	246.00	0.50	0
			20289	246.00	246.69	0.69	0

TOTAL ENERGO GOLD CORPORATION

HOLE NO: 242-02

Page No: 9 of 13

FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
		ankeritic margins, generally subparallel to the C.A. 15% grey quartz stockworks.					
		244.14 to 245.10 Moderate to strong brecciation, 5% white quartz veining, 10% grey quartz stockworks, 2 % disseminated pyrite.					
		245.10 to 245.50 As above, 50% grey quartz stockworks, 10% white quartz veining.					
		245.50 to 246.00 As above.					
		246.00 to 246.69 Less brecciation and quartz veining, 1% pyrite, bedding at 80° to the C.A.					
246.69	277.17	CLASTIC METASEDIMENTS	20290	261.10	262.10	1.00	0
		Medium grey, light greenish tinge. 20% felsic rock fragments, 2-3% blue quartz eyes set in a fine-grained quartzo-feldspathic and weakly sericitic matrix.. Bedding contacts obscure. Weakly foliated at 80° to the C.A. Local weak sericitization accompanying grey quartz ankerite veins, up to 5 cm wide, scattered irregularly throughout the section.	20291	262.10	263.67	1.57	0
			20292	263.31	264.38	1.07	0
		261.10 to 266.50 Increased intensity of sericite alteration and deformation. Local strong 1 cm sericitic shears. 10% dark grey quartz ankerite veining over 1 meter intervals. Trace pyrite. From 261.10-262.10 meters a brown massive mineral occurs in bands oriented at 80° to the C.A. Secondary growths of actinolite/tremolite occur within these bands (ankerite-sericite?).					
		261.10 to 262.10 Trace pyrite. Brown banding hosting 10% tremolite/actinolite.					
		262.10 to 264.38 Moderate to strongly altered fine-grained sediments hosting 15% dark grey quartz ankerite veining.					
		262.10 to 263.67 25% dark grey quartz ankerite veining in a quartz sericite schist. Strong schistosity at 80° to the C.A. Trace-1% cubic pyrite locally.					
		263.31 to 264.38 Intense sericite alteration hosting 5% white quartz veining and 15% grey brecciated pervasive silicified sections. Trace pyrite.					

TOTAL ENERGO GOLD CORPORATION

HOLE NO: 242-02

Page No: 10 of 18

FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
		264.38 to 266.50 Intense sericitic shear zone. 25 cm of sericitic fault gouge centered at 264.80 meters.					
		Below 266.50 meters, the rock remains a fine grained clastic metasediment, pervasively sericitic (moderate intensity). Colour varies from light greenish grey to lime green in the thinly bedded sections. Foliation parallel to bedding at 70° to the C.A. Occasional 1 cm dark grey quartz ankerite veinlet parallel to foliation.					
277.17	286.69	SHEARED GRAPHITIC AND SERICITIC ARGILLITE	20293	279.10	280.25	1.15	0
		Sericitic to graphitic shear zone. Host may have been originally a graphitic argillite - now difficult to tell if graphite is hydrothermal in origin. Very fissile, fault gouge over 1-3 cm. 5% grey quartz ankerite veining, 3-5% pyrite, as narrow foliation parallel bands and in irregular fractures.	20294	283.54	284.50	0.96	0
			20295	284.50	285.50	1.00	0
			277.70 to 277.80 Sericitic shear zone. 25 cm of strong sericitic fault gouge, trace pyrite, 5% grey quartz ankerite veining.				
		279.10 to 280.25 Weakly graphitic shear. 25% grey-white quartz ankerite veining, 20% grey quartz veining, deformed subparallel to the C.A. 5% pyrite in latter. A few strongly sericitic slips.					
		283.54 to 286.69 Main graphite-sericite shear zone. Consists of alternating black (graphitic) greenish (sericitic) and grey to grey-black (quartz veins, pervasive silicification). 5% very fine pyrite in quartz sericite masses oriented parallel to foliation (5% of section). Grey-white quartz veining is irregular and barren of pyrite. Black graphitic sections vary from 1 cm to 10 cm wide and host 102% disseminated pyrite. Overall, the section contains 2-3% pyrite.					
		283.54 to 284.50 As above, 10% grey quartz veining. Locally 2 cm of graphitic fault gouge.					
		284.50 to 285.50 As above, 5% quartz-sericite-pyrite bands.					

TOTAL ENER GOLD CORPORATION

HOLE NO: 242-02

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FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
		286.69 to 288.34 Quartz sericite schist. Very well banded at 75° to the C.A. Trace pyrite.					
		286.69 to 288.34 As above.					
		285.50 to 286.69 As above.					
286.69	293.84	FINE-GRAINED CLASTIC METASEDIMENTS	20296	286.69	288.34	1.65	0
		Weakly sericitic, moderately foliated at 75° degrees to the C.A.	20297	285.50	286.69	1.19	7
			20298	292.84	293.84	1.00	0
		292.84 to 293.84 Weak graphitic shear zone. Minor quartz veining, local narrow sericitic slips.					
293.84	324.93	FELSIC TUFF OR QUARTZ FELDSPATHIC METASEDIMENT					
		A matrix of fine-grained sericite and quartz supports 25% clasts consisting of 75% quartz-feldspar aggregates (felsic volcanic?) and 25% blue quartz. All clasts are striated and elongated parallel to foliation, which is moderate at 80° to the C.A. Trace pyrite, minor dark grey quartz ankerite veining, barren of pyrite.					
324.93	340.56	INTERBEDDED CHERT, GRAPHITE AND FINE-GRAINED ARGILLITE	20299	326.20	326.95	0.75	0
		Upper contact gradational over 50 cm, strongly sheared and sericitic. Lower contact also gradational and strongly sericitic over 1.5 meters. Unit consists of interbedded fine-grained argillite (grey to black, weakly silicified), chert (dark grey, locally slumped, minor brecciation) and graphite (1-3 cm beds and thin seams parallel to bedding within larger chert units). Core angles of bedding are 80°. Unit is hard and shows little sign of alteration, except at the contacts, where the wallrock is strongly sericitic and sheared. 1% late white quartz veining parallel to bedding. Little deformation and crackle fracturing. Pyrite occurs as masses within graphitic beds and as cubes disseminated throughout the chert units. Total pyrite content is < 1%. Locally it may be remobilized along narrow irregular fractures with graphite or argillite within the cherty units.	20300	329.05	330.25	1.20	0
			20301	335.69	336.50	0.81	0
			20302	336.50	337.40	0.90	7

TOTAL ENERGO GOLD CORPORATION

HOLE NO: 242-02

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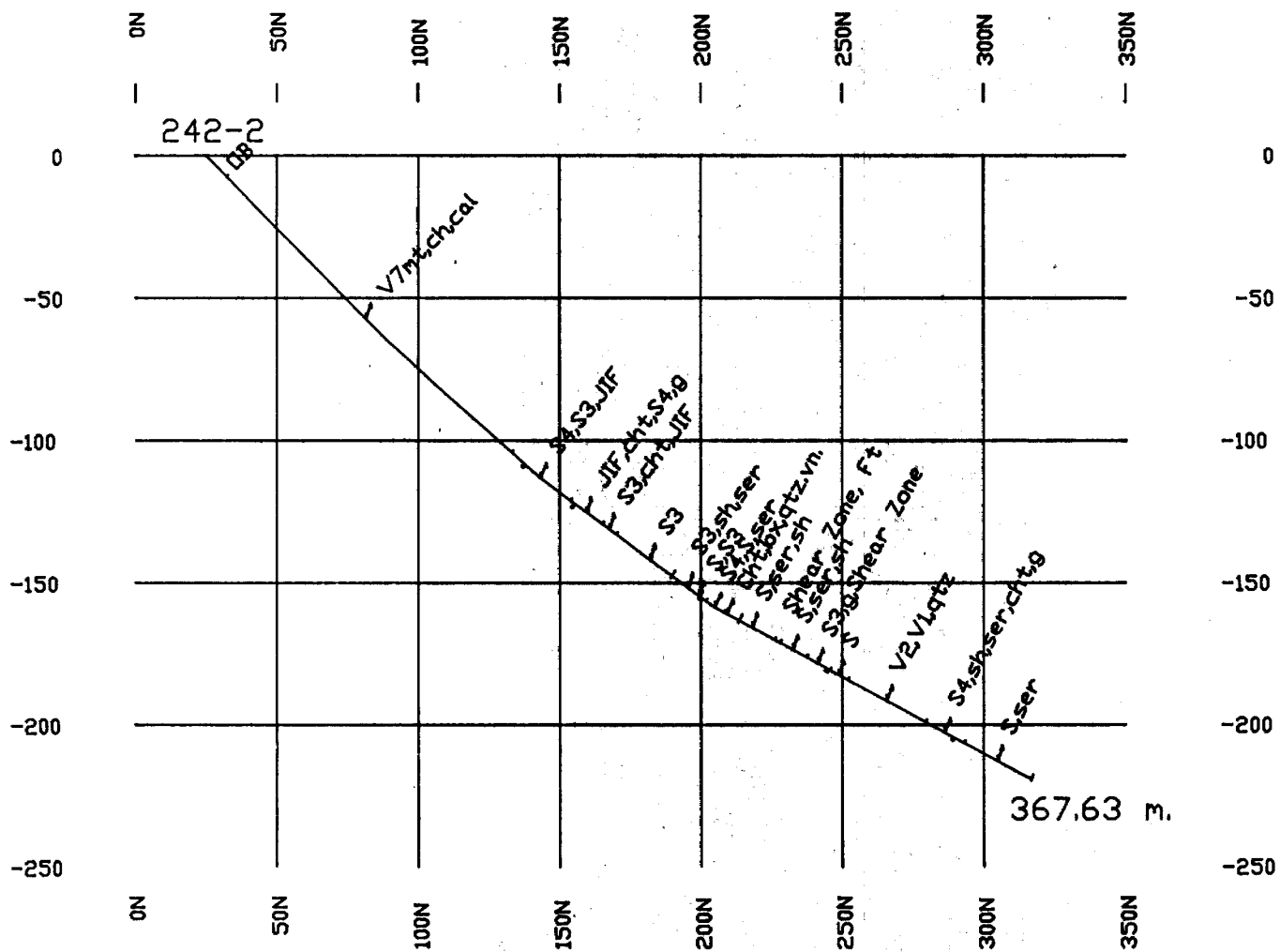
FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
		324.93 to 326.20 Interbedded very sericitic and cherty beds. Chert becoming dominant down the hole. 2 cm fault gouge at 325 m, 1 cm fault gouge at 325.20 meters. 1% pyrite.					
		326.20 to 326.95 5% white quartz veining, 2% pyrite in discontinuous lenses wedging out parallel to the foliation and bedding.					
		326.20 to 326.95 As above.					
		A few specks of chalcopyrite occur near intersections of graphitic fractures within the dark grey cherty units.					
		329.05 to 330.25 As above, chalcopyrite in grey chert cut by 10% irregular graphitic fractures, strongly crenulated subparallel to the C.A.					
		335.69 to 337.40 Slight increase in pyrite mineralization and fracturing. 5% white quartz veining. 1-2% pyrite in fractures and in thin beds within the cherty units.					
		335.69 to 336.50 Slumping of chert/graphite beds, 5% white quartz veining at 25° to the C.A. 1% pyrite with graphite in narrow seams parallel to foliation.					
		336.50 to 337.40 25% white quartz veining, no pyrite. Also, a 20 cm mass of quartz and ankerite, grey colour, trace disseminated pyrite.					
		337.40 to 340.56 Transition between chert-graphite and underlying fine-grained clastic metasediment. Moderately to locally strongly sericitic over 2-3 cm. 1% pyrite in 1-2 cm bands of quartz-sericite.					
340.56	367.63	FINE-GRAINED CLASTIC METASEDIMENT Thickly bedded, grey with a light green tinge, well sorted. Clasts are mainly subrounded to rounded feldspar and minor translucent quartz. Matrix is fine-grained, quartzofeldspathic, with a strong sericitic component. Minor cherty interbeds with 1% pyrite. Weakly foliated at 75-80° to the C.A.	20303	364.20	365.13	0.93	0
		360 to 361.53 Weak shearing minor fault gouge over 102 cm, minor quartz veining, no					

TOTAL ENERGO GOLD CORPORATION

HOLE NO: 242-02

Page No: 13 of 13

FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
		pyrite. From 360-361.5 the unit is coarser-grained, with clasts up to 5 mm of similar composition to the previous description.					
		364.20 to 365.13 Minor cherty interbeds with 2-3% pyrite over 10 cm within chert. Finer grained beds very sericitic.					
		364.20 to 365.13 As above.					
		365.13 to 367.00 Interbedded chert and sericitic mudstone. Foliation parallel to bedding at 70-80° to the C.A.					
		367.00 to 367.63 Thinly bedded chert, mudstone and fine grained arenite. Not altered.					
367.63		END OF HOLE					



LEGEND

VOLCANICS

- V2 Felsic
- V4 Intermediate
- V7 Basalt
- V8 Tuff
- V10 Agglomerate

SEDIMENTS

- S3 Graywacke
- S4 Argillite

INTRUSIVES

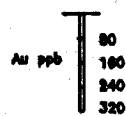
- 1R Felsic
- D6 Diabase

- ob overburden
- ft fault
- br breccia
- p pillowed
- qv quartz vein

- gf graphite
- ser sericite
- fo fuchsite
- ob carbonated
- sl silicified
- sl slightly
- alt altered

- py pyrrhotite
- py pyrite
- asp arsenopyrite
- mt magnetite
- Fe iron thioalite

IP Induced Polarization Anomaly



TOTAL ENERGOLD CORPORATION

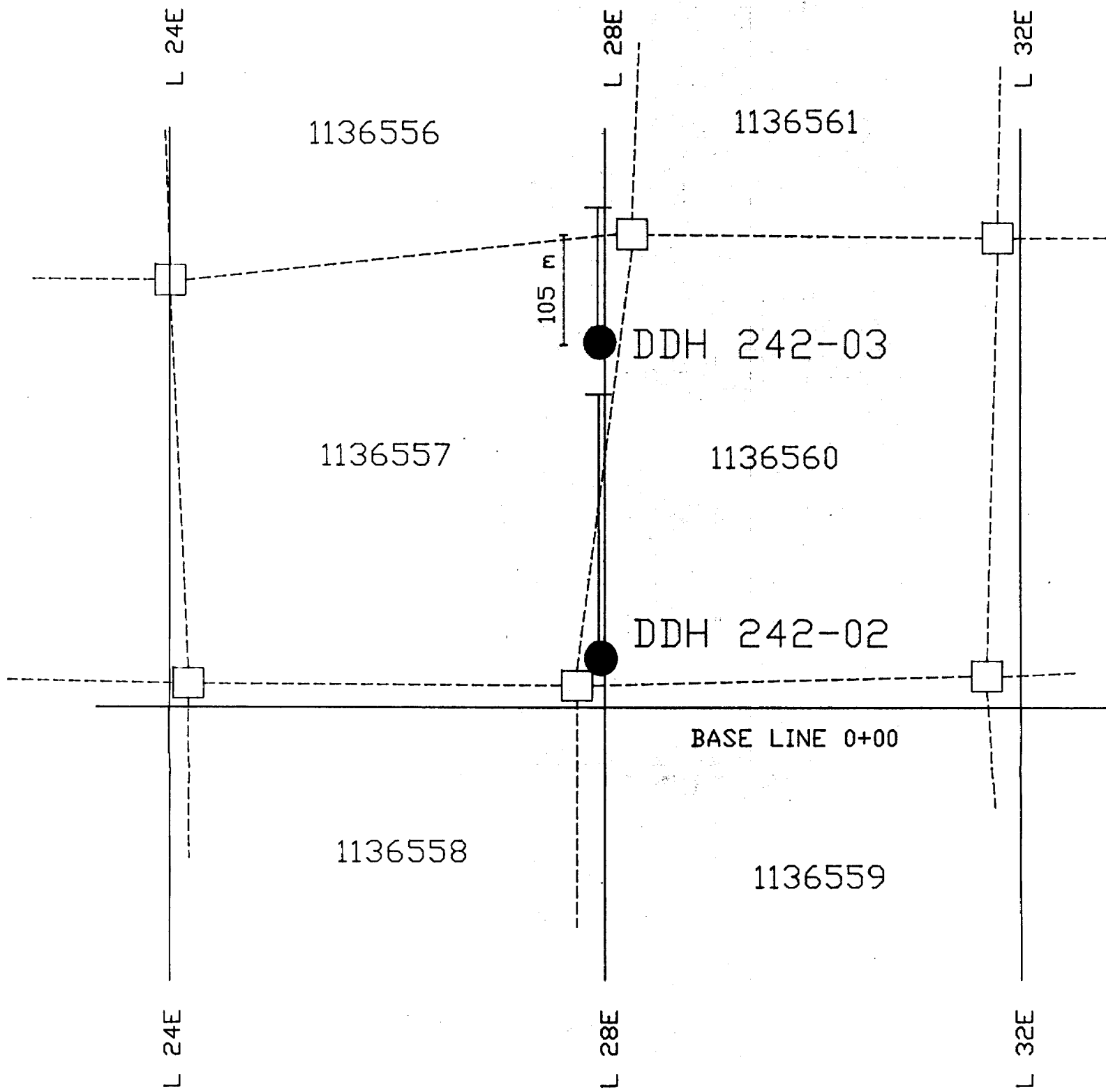
ST. LAURENT

DDH 242-2
Section 28+00 E
Facing West

JMP

Drawn: J.M.P.	Checked: JMP	Scale: 1:2500	Drawing: SL-2
Date: March, 1991	Revised: March, 1991	Province: Ontario	NTS: 32 E/5

0 20 40 60 80 METRES



TOTAL ENERGOLD CORPORATION			
ST. LAURENT			
LOCATION MAP			
DDH 242-03			
Drawn: J.M.P.	Checked: JMP	Scale: 1:5000	Drawing: SL3-LOC
Date: March, 1991	Revised: March, 1991	Province: Ontario	NTS: 32 E/5

TOTAL ENERGOLD CORPORATION

DIAMOND DRILL RECORD

Co-ords: 325N Section: L2800E HOLE NO: 242-03
Bearing: 360° Core Size: BQ Property: St. Laurent
Dip: -45° Grid System: Location: St. Laurent Twp.
Elevation: Claim: 1136557, 1136560
Length: 193.90m Date Started: Feb. 22, 1991
Measurement: metres Date Completed: Feb. 24, 1991
Comments: Logged By: Joe MacPherson

J. A. MacPherson

Depth	Azimuth	Dip	Depth	Azimuth	Dip	Depth	Azimuth	Dip
18.29		-45°	121.95		-38°			
76.22		-43°	187.80		-28°			

LOG SUMMARY

FROM	TO	LITHOLOGY
0.00	17.07	OVERBURDEN
17.07	57.60	FELSIC TUFFS, MINOR FLOWS
57.60	117.65	INTERMEDIATE VOLCANIC FLOWS
117.65	196.90	MASSIVE SERICITIC FELSIC VOLCANIC FLOWS
196.90	199.95	SILICEOUS INTERMEDIATE TUFF, ASH TUFF
	199.95	END OF HOLE

TOTAL ENERGOLD CORPORATION

HOLE NO: 242-03

Page No: 2 of 3

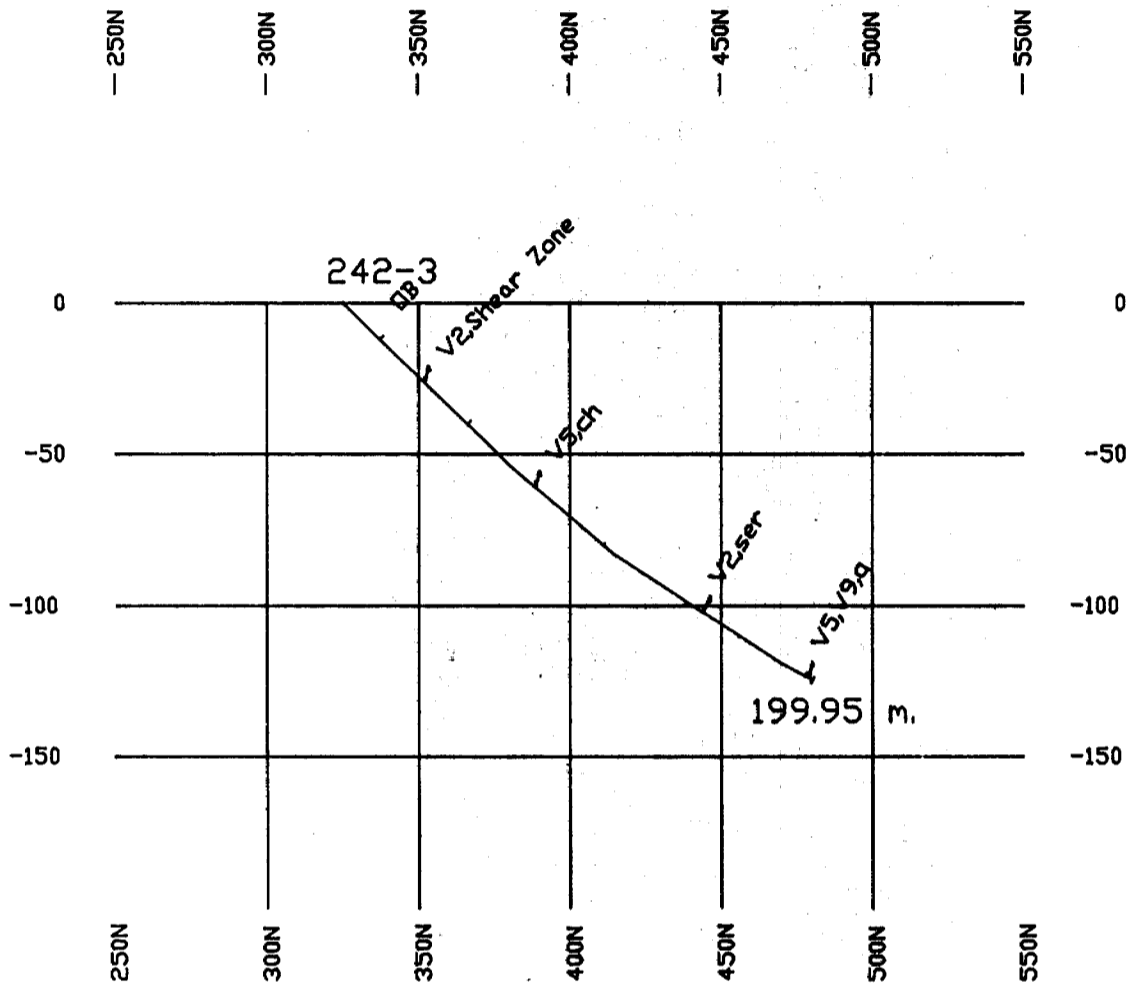
FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
0.00	17.07	OVERBURDEN Sand, clay, gravel, boulders near bedrock.					
17.07	57.60	FELSIC TUFFS, MINOR FLOWS Fine-grained, well banded/foliated at 55° to the C.A. Sheared and weakly sericitic to 28.42 meters. Locally broken, faulted, with minor white quartz veining accompanying the faulting. Faults with minor gouge at: 23.00, 24.75, 28.35, 31.90, 45.30, 50.30, meters. Faults less than 15 cm wide.	20721 20722 20723	26.90 44.12 45.00	28.42 45.20 46.20	1.52 1.08 1.20	0 0 0
		26.90 to 28.42 Strongly sheared and sericitic zone, minor graphitic slips in grey quartz from 26.90-27.25 meters.					
		44.12 to 45.20 Quartz-graphite Fault Zone and Veining . 30% white quartz veining intruding along numerous graphitic slips. Tr pyrite, local weak silicification.					
		44.12 to 45.00 20% white quartz veining. Numerous graphitic slips along vein contacts and within veins.					
		45.00 to 46.20 As above, 40% white quartz veining, minor silicification.					
		Unit is weakly sericitic from 38.53-50.60 meters. Local strong foliation at 55-60° to the C.A. Below 50.60 meters, a few sericitic slips are present. Core remains weakly silicified to 53.75 meters. Banding/foliation becomes fainter towards the lower contact.					
57.60	117.65	INTERMEDIATE VOLCANIC FLOWS Massive, medium grey, hard. Sausseritized feldspars set in a fine-grained matrix of quartz, feldspar and minor sericite. Individual flows up to 3 meters thick.					
		91.00 30 cm quartz vein, broken, no pyrite.					
		87.17 to 88.00 Weak shearing at 60° to the C.A. Minor sericite.					
		Below 84.00 meters, feldspar porphyritic flows are present interbedded with the massive flows. Matrix of the flows becomes slightly more mafic (fine-grained chlorite) and darker					

TOTAL ENERGO GOLD CORPORATION

HOLE NO: 242-03

Page No: 3 of 3

FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
		grey from 99.00-102.50 meters. Gradational below this point to more felsic matrix. Occasional 1 cm pyrite cube.					
		Lower contact is sheared and gradational with felsic volcanics. Strongly foliated at 70° over 2 meters, minor graphitic slips, trace pyrite.					
117.65	196.90	MASSIVE SERICITIC FELSIC VOLCANIC FLOWS Quartz eye rhyolite, massive, strongly sericitic locally, hard, light greenish green to lime green. 5% grey quartz phenocrysts, 1-2% late white quartz veinlets at 55-70° to the C.A.					
		142.80 to 143.10 Weak jasper interflow siliceous sediments, banded at 80° to the C.A.					
		151.00 to 153.00 Strongly silicified and sericitic, crackle fractured, translucent green, hard, trace pyrite.					
		165.00 to 166.40 Siliceous interflow, white, tr py, massive, weak sericitization.					
		180.20 to 182.66 Siliceous interflow, as above.					
		After 187.40 meters, the strong sericite alteration fades out, and the rock is a medium grey colour, massive, siliceous, with tr py. 10% interflow tuff.					
196.90	199.95	SILICEOUS INTERMEDIATE TUFF, ASH TUFF Thinly bedded ash tuff to quartz crystal tuff, set in a fine grained weakly chloritic matrix. Trace pyrite. <5% quartz phenos in crystal tuff. Bedding at 70° to the C.A.					
199.95		END OF HOLE					



LEGEND

VOLCANICS

- V2 Felcic
- V4 Intermediate
- V7 Basalt
- V8 Tuff
- V10 Agglomerate

SEDIMENTS

- S3 Greywacke
- S4 Argillite

INTRUSIVES

- 1R Felcic
- D6 Diabase

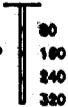
- ob overburden
- ft fault
- bx breccia
- p pillowed
- qv quartz vein

- gf graphite
- ser sericite
- fo fuchsite
- cb carbonatized
- sl sillified
- sl slightly altered
- alt altered

- po pyrrhotite
- py pyrite
- cpy arsenopyrite
- mt magnetite
- Fe iron trolite

IP Induced Polarization Anomaly

Au ppb

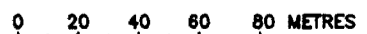


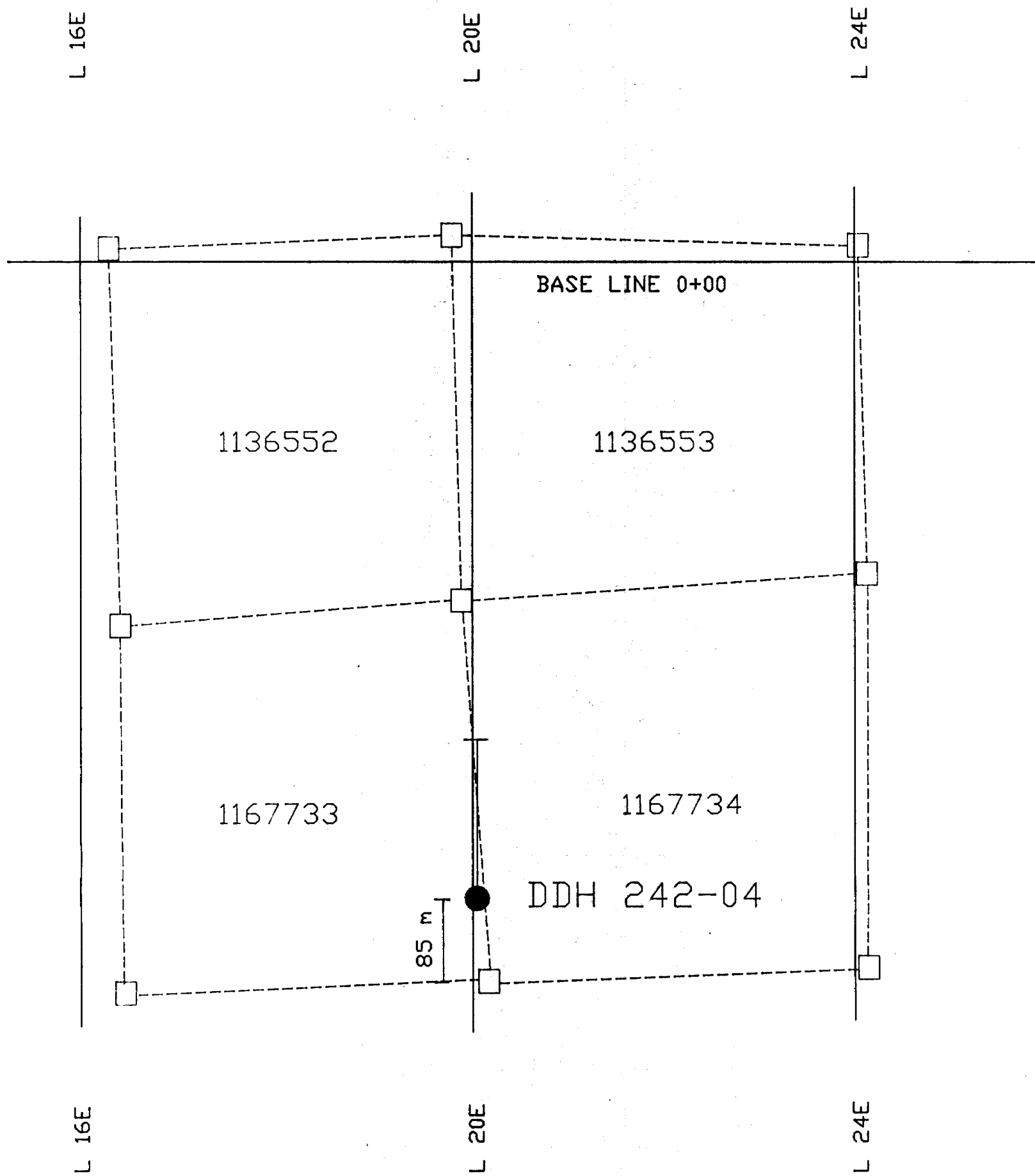
TOTAL ENERGOLD CORPORATION

ST. LAURENT

**DDH 242-3
Section 28+00 E
Facing West**

Drawn: J.M.P.	Checked: J.M.P.	Scale: 1:2500	Drawing: EL-3
Date: March, 1991	Revised: March, 1991	Province: Ontario	NTS: 32 E/5





TOTAL ENERGOLD CORPORATION			
ST. LAURENT			
LOCATION MAP			
DDH 242-04			
Drawn: J.M.P.	Checked: J.M.P.	Scale: 1:5000	Drawing: SL4-LOC
Date: March, 1991	Revised: March, 1991	Province: Ontario	NTS: 32 E/5

TOTAL ENERGOLD CORPORATION

DIAMOND DRILL RECORD

Co-ords: 675S Section: L2000E HOLE NO: 242-04
Bearing: 360° Core Size: BQ Property: St. Laurent
Dip: -45° Grid System: Location: St. Laurent Twp.
Elevation: Claim: 1167733, 1167734
Length: 242.62m Date Started: Feb. 13, 1991
Measurement: metres Date Completed: Feb. 23, 1991
Comments: *J.A. MacPherson* Logged By: Joe MacPherson

Depth	Azimuth	Dip	Depth	Azimuth	Dip	Depth	Azimuth	Dip
64.93		-45°	121.95		-44°			
182.92		-41°						

LOG SUMMARY

FROM	TO	LITHOLOGY
0.00	64.89	OVERBURDEN
64.89	99.47	CLASTIC METASEDIMENTS
99.47	105.46	BRECCIATED, FRACTURED, QUARTZ VEINED CHERT AND ARGILLITE
105.46	154.82	FINE-GRAINED CLASTIC METASEDIMENTS
154.82	168.00	BRECCIATED AND QUARTZ VEINED CHERT, MINOR CHERT-GRAPHITE
168.00	184.82	CLASTIC METASEDIMENTS
184.82	201.67	CHEMICAL METASEDIMENTS: CHERT, ARGILLITE
201.67	218.52	GREYWACKE
218.52	225.50	CHEMICAL METASEDIMENTS: CHERT, ARGILLITE
225.50	233.48	GREYWACKE
233.48	242.62	INTERMEDIATE TO MAFIC METAVOLCANICS
	242.62	END OF HOLE

TOTAL ENERGOLD CORPORATION

HOLE NO: 242-04

Page No: 2 of 10

FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
0.00	64.89	OVERBURDEN					
64.89	99.47	CLASTIC METASEDIMENTS Fine grained to locally medium grained, well foliated at 45 to 50° to the C.A. Highly weathered to 69.60 meters. Medium greenish grey. 10% feldspathic clasts, ranging in size from 2 mm to 5 mm, well rounded, in a matrix of fine-grained quartzo-feldspathic material and chlorite. After 80 meters, the rock becomes weakly sericitic, corresponding with an increase in foliation intensity. Trace pyrite, < 1% pinkish grey quartz stringers (< 1cm wide) oriented parallel to foliation. 76.60 10cm shear zone, sericitic, fault gouge. Unconsolidated fault gouge also at 94.65-94.70, 98.15-98.25 meters. After these faults, the foliation is intense at 45° to the C.A. After 98.35 meters, intensity of sericite alteration increases. Numerous sericitic slips and sericitic seams along bedding contacts. Sericitic shear zone from 99.10-99.47 meters. Very fissile, strongly sheared at 35° to the C.A. Fault gouge.					
99.47	105.46	BRECCIATED, FRACTURED, QUARTZ VEINED CHERT AND ARGILLITE Interbedded chert and argillite, moderately to locally strongly brecciated and fractured, and cut by white and grey quartz veins. Degree of deformation locally intense enough to obliterate original bedding, but where visible, bedding is oriented at 50-60° to the C.A. The less deformed rock consists of alternating dark grey, light greenish grey chert and medium to dark greyish green fine grained argillite. Section hosts about 5% white quartz veining with sericitic and chloritic fractures and margins. Grey quartz veinlets occupy an irregular crackle fracture which is locally intense over 5-30 cm.	20667 20668 20669 20670 20671 20672 20673	99.47 100.34 101.63 102.31 103.05 103.80 105.03 105.46	100.34 101.63 102.31 103.05 103.80 105.03 105.46	0.87 1.29 0.68 0.74 0.75 1.23 0.43	14 0 24 0 21 0 0

TOTAL ENERGY GOLD CORPORATION

HOLE NO: 242-04

Page No: 3 of 10

FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
		Pyrite occurs as isolated cubes (rare), as fine disseminations in brecciated sections (1%), and as masses and irregular bands within all rock types. Pyritic banding parallel to bedding is most common.					
		99.47 to 100.34 Brecciated, quartz veined chert. 40% thin grey irregular quartz stringers, 5% white quartz veining, trace pyrite.					
		100.34 to 101.63 10% grey quartz stringers, 10% white quartz veining. Pyrite occurs as grey cloudy masses along low-angle grey quartz vein margins, and as well formed cubes within the less deformed parts of the chert, and semi-massive along very thin seams within the argillite.					
		101.63-102.31 Mainly brecciated and quartz veined chert. 10% white quartz veining. 1% pyrite in narrow seams parallel to bedding.					
		102.31 to 103.05 Predominantly well bedded chert, 5% grey quartz-filled crackle fracture, trace pyrite.					
		103.05 to 103.80 Strongly brecciated and fractured. 1% pyrite.					
		103.80 to 105.03 20% lost core. 10 cm strong fault zone with unconsolidated fault gouge. Hangingwall of fault is very sericitic and contains 2-3% disseminated pyrite and in masses with grey quartz and sericite.					
		105.03 to 105.46 Quartz veined and moderately brecciated lower contact to the chert/argillite section. 3-5% pyrite as convoluted masses within the argillaceous beds.					
105.46	154.82	FINE-GRAINED CLASTIC METASEDIMENTS	20674	115.92	117.10	1.18	0
		As per earlier description: intensity of pervasive sericite alteration decreasing away from the contact with the brecciated chert/argillite unit. Numerous sericitic slips oriented at 55° to the C.A. Below 144.00 meters, the intensity of the sericite alteration increases again, as the sedimentary unit	20675	118.42	119.27	0.85	0
			20676	128.57	129.56	0.99	17
			20677	129.56	130.25	0.69	0
			20678	130.25	131.00	0.75	0
			20679	131.00	132.35	1.35	10
			20680	132.35	133.00	0.65	0
			20681	133.00	133.68	0.68	0
			20682	138.25	139.23	0.98	0

TOTAL ENERGO GOLD CORPORATION

HOLE NO: 242-04

Page No: 4 of 10

FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
		becomes more fine-grained. Appearance of cloudy, small irregular masses of grey quartz, sericite and pyrite (< 1% of rock) after 115.92 meters.	20683	140.00	141.20	1.20	0
			20684	141.20	142.06	0.86	0
			20685	142.06	143.00	0.94	0
			20686	147.90	148.20	0.30	0
		115.92 to 117.10 Moderately sericitic, well foliated at 55° to the C.A. < 1% grey quartz-sericite-fine pyrite masses and discontinuous seams.					
		118.42 to 119.27 1% dark grey quartz stringers with 50% pyrite. Stringers are very thin (< 2 mm), irregular, and make up < 1% of section.					
		128.57 to 133.60 Increase in overall pyrite content to 1-2%. Pyrite occurs in thin irregular dark grey quartz stringers and masses randomly located throughout the section. Moderate sericite alteration, strong foliation at 55° to the C.A. Host appears to be a thinly bedded clastic metasediment.					
		128.57 to 129.56 Brecciated and bleached wallrock to a 15 cm low-angle quartz vein, at 128.90 meters. 5% pyrite as masses and fracture fillings, in breccia and vein.					
		129.56 to 130.25 Wisps and streaks of dark grey quartz-pyrite, 1% total pyrite.					
		130.25 to 131.00 As above, a 5 cm section of quartz-pyrite at 120.00 meters.					
		131.00 to 132.35 Becoming more sericitic: trace pyrite and quartz veining.					
		132.35 to 133.00 5% dark grey quartz-pyrite veining and masses up to 7 cm wide. 50% pyrite in these section. 3% pyrite overall.					
		133.00 to 133.68 2% dark grey quart-pyrite irregular wisps and fracture fillings.					
		Below 135 meters, the rock is a mixture of medium grained to fine grained variably sericitic metasediments. Fine grained beds are more sericitic. Occasional grey quartz-pyrite vein parallel to foliation, at 60° to the C.A. The core is also notable for the presence of 1-2% rounded black clasts - could be rhyolite					

TOTAL ENERGO GOLD CORPORATION

HOLE NO: 242-04

Page No: 5 of 10

FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
		or siliceous argillite.					
	138.25 to 139.23	1% dark grey quartz-pyrite banding and irregular masses.					
	140.00 to 141.20	2-3% dark grey quartz pyrite masses hosting 50% pyrite.					
	141.20 to 142.06	Strong shearing at 35° to the C.A., 50 cm medium grey quartz ankerite vein, broken, with numerous sericitic slips.					
	142.06 to 143.00	1-2% dark grey quartz-pyrite bands and irregular masses. These have individual extents of no more than 2-3 cm.					
	147.90 to 148.20	1% dark grey quartz banding parallel to foliation. Host is a fine to medium grained arenite.					
154.82	168.00	BRECCIATED AND QUARTZ VEINED CHERT, MINOR CHERT-GRAPHITE	20687	154.82	156.00	1.18	0
		Strongly deformed and brecciated chert unit with minor graphitic beds. 40% white quartz veining in section from 154.82 to 160.33 meters. These veins consist of 75% quartz, 20% yellow ankerite, and 5% sericitic slips and cherty inclusions. More or less barren of pyrite, except in the cherty inclusions, where 1-2% cubic pyrite may be present. The veining is present as an irregular stockworks cutting the core at various angles. This vein set appears to be late, and crosscuts an earlier set which is grey, very narrow (< < 1 cm), and also cuts the core at various angles.	20688	156.00	157.00	1.00	0
			20689	157.00	158.00	1.00	0
			20690	158.00	159.00	1.00	0
			20691	159.00	160.33	1.33	0
			20692	162.45	163.50	1.05	0
			20693	163.50	164.50	1.00	10
			20694	164.50	165.50	1.00	0
			20695	165.50	166.50	1.00	0
			20696	166.50	168.00	1.50	0
	160.33 to 162.45	60% medium brown mineral, very soft, hosting chlorite porphyroblasts. The chlorite has a well formed crystal habit and also occurs as radiating aggregates. Very minor quartz veining in this section.					
	154.82 to 156.00	40% white quartz-ankerite veining, minor brecciation. 5% early dark grey quartz veining. Trace pyrite.					
	156.00 to 157.00	75% white quartz ankerite veining, trace pyrite.					

TOTAL ENERGO GOLD CORPORATION

HOLE NO: 242-04

Page No: 6 of 10

FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
	157.00 to 158.00	50% white quartz ankerite veining, 1% cubic pyrite in cherty inclusions.					
	158.00 to 159.00	30% white quartz ankerite veining, silicified chert wallrock with 1% cubic pyrite.					
	159.00 to 160.33	75% white quartz ankerite veining, more ankerite in veins here (20%), trace pyrite in chert wallrock.					
	162.45 to 168.00	Chert, varying in colour from white to grey to greenish grey. Well bedded, average bedding thickness 1-2 cm, at an average of 60° to the C.A. Degrees of quartz veining and fracturing very low (<5% total). 1-2% pyrite in irregular fractures, seams parallel to bedding, and as isolated cubes.					
	162.45 to 163.50	Slumped chert. 2% pyrite along bedding contacts. Less than 5% fracturing.					
	163.50 to 164.50	As above.					
	164.50 to 165.50	As above. Pyrite remobilized along narrow graphitic (?) fractures. 1% white quartz veining.					
	165.50 to 166.50	As above. Trace chalcopyrite, minor jasper beds.					
	166.50 to 168.00	As above. Trace chalcopyrite, 1-2% remobilized fracture-controlled pyrite.					
168.00	184.82	CLASTIC METASEDIMENTS Weakly sericitic, becoming less so down the hole. Fine to medium grained. Clasts are predominantly quartzo-feldspathic, set in a fine grained quartz-feldspathic-sericite matrix. Foliation moderate at 60° to the C.A., decreasing in intensity down the hole. Trace pyrite. Last 20 cm weakly sericitic.					
184.82	200.67	CHEMICAL METASEDIMENTS: CHERT, ARGILLITE Thinly bedded chert, minor jasper, and siliceous argillite. Average bed thickness is 1 cm, average orientation to C.A. is 60°, and consists of alternating bands of white, light to dark	20697	184.82	186.00	1.18	0
			20698	186.00	187.00	1.00	0
			20699	187.00	188.00	1.00	0
			20700	188.00	189.00	1.00	0
			20701	189.00	190.00	1.00	0

TOTAL ENERGOLD CORPORATION

HOLE NO: 242-04

Page No: 7 of 10

FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
		grey, black, and greenish grey. All beds moderately to locally strongly brecciated and crackle fractured. Sequence hosts 5% white irregular quartz veins and up to 20% dark grey irregular thin grey quartz crackle fractures, oriented at various angles to the C.A., but often subparallel. Pyrite content is highly variable from trace to semi-massive over 1-2 cm, usually associated with the argillaceous beds. Occasional speck of chalcopyrite.	20702	190.00	191.00	1.00	0
			20703	191.00	192.00	1.00	0
			20704	192.00	193.00	1.00	0
			20705	193.00	194.00	1.00	0
			20706	194.00	195.00	1.00	0
			20707	195.00	196.00	1.00	0
			20708	196.00	197.00	1.00	0
			20709	197.00	198.00	1.00	0
			20710	198.00	199.00	1.00	31
			20711	199.00	200.00	1.00	0
			20712	200.00	201.67	1.67	0
		184.82 to 186.00 Well bedded, semi-massive pyrite over 1-2 cm, at 185.40 meters, associated with white quartz.					
		186.00 to 187.00 Grey-green chert primarily, weak crackle fracture, trace pyrite.					
		187.00 to 188.00 Strong brecciation and crackle fracture, 1% disseminated pyrite in brecciated chert sections. Minor brecciated jasper.					
		188.00 to 189.00 Moderate brecciation, 5% white quartz veining, trace pyrite.					
		189.00 to 190.00 As above, 40% white quartz veining, trace-1% disseminated pyrite in chert.					
		190.00 to 191.00 Strongly brecciated chert and slumped very soft sediment.					
		Latter is yellow-brown, with secondary growths of chlorite as radiating aggregates. May have been a chloritic bed, now completely recrystallized and altered.					
		191.00 to 192.00 Weakly brecciated chert, strong bedding at 70° to the C.A., locally slumped to 20° to the C.A.					
		192.00 to 193.00 As above.					
		193.00 to 194.00 Well bedded chert, 1% pyrite along bedding contacts.					
		194.00 to 195.00 Fine-grained greywacke, 10% brecciated chert.					

TOTAL ENERGOLD CORPORATION

HOLE NO: 242-04

Page No: 8 of 10

FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
	195.00 to 196.00	Moderately to strongly brecciated and crackle-fractured chert. 15% dark grey foliation-parallel quartz veinlets.					
	196.00 to 197.00	Strongly brecciated chert, dark grey, 2% pyrite in brecciated chert fragments.					
	197.00 to 198.00	As above, degree of brecciation slightly less.					
	198.00 to 199.00	As above. Trace chalcopyrite.					
	199.00 to 200.00	Moderate brecciation. Bedding at 55° to the C.A. 1% disseminated pyrite. Trace chalcopyrite.					
	200.00 to 201.67	Well bedded chert, trace pyrite, 1-2% white quartz veining, minor grey quartz-filled crackle fracture.					
201.67	218.52	GREYWACKE Fine to medium grained, well bedded at 65° to the C.A., greenish grey. Clast types are: 10% mafic rock fragments, 5% sausseritized feldspars, set in a fine grained matrix of quartz, feldspar, chlorite and sericite. Matrix quite strongly altered.					
218.52	225.50	CHEMICAL METASEDIMENTS: CHERT, ARGILLITE Similar to previous section of chemical metasediments, except for the notable increase in pyrite content. Pyrite occurs as masses, fine disseminations and fracture-fillings within the strongly brecciated chert <u>and</u> later quartz veining.	20713	218.52	219.00	0.48	0
			20714	219.00	219.70	0.70	34
			20715	219.70	220.40	0.70	45
			20716	*			
			20717	221.10	222.00	0.90	82
			20718	222.00	222.50	0.50	72
		Pyritic section runs from 218.52-223.00. Average pyrite content for this section is 5%.					
	218.52 to 219.00	3-5% pyrite as fracture fillings and masses within increasingly brecciated chert.					
	219.00 to 219.70	3% pyrite, mainly as bands parallel to bedding. Moderately brecciated. 5% white quartz veining.					

* LOST CORE

TOTAL ENERGOLD CORPORATION

HOLE NO: 242-04

Page No: 9 of 10

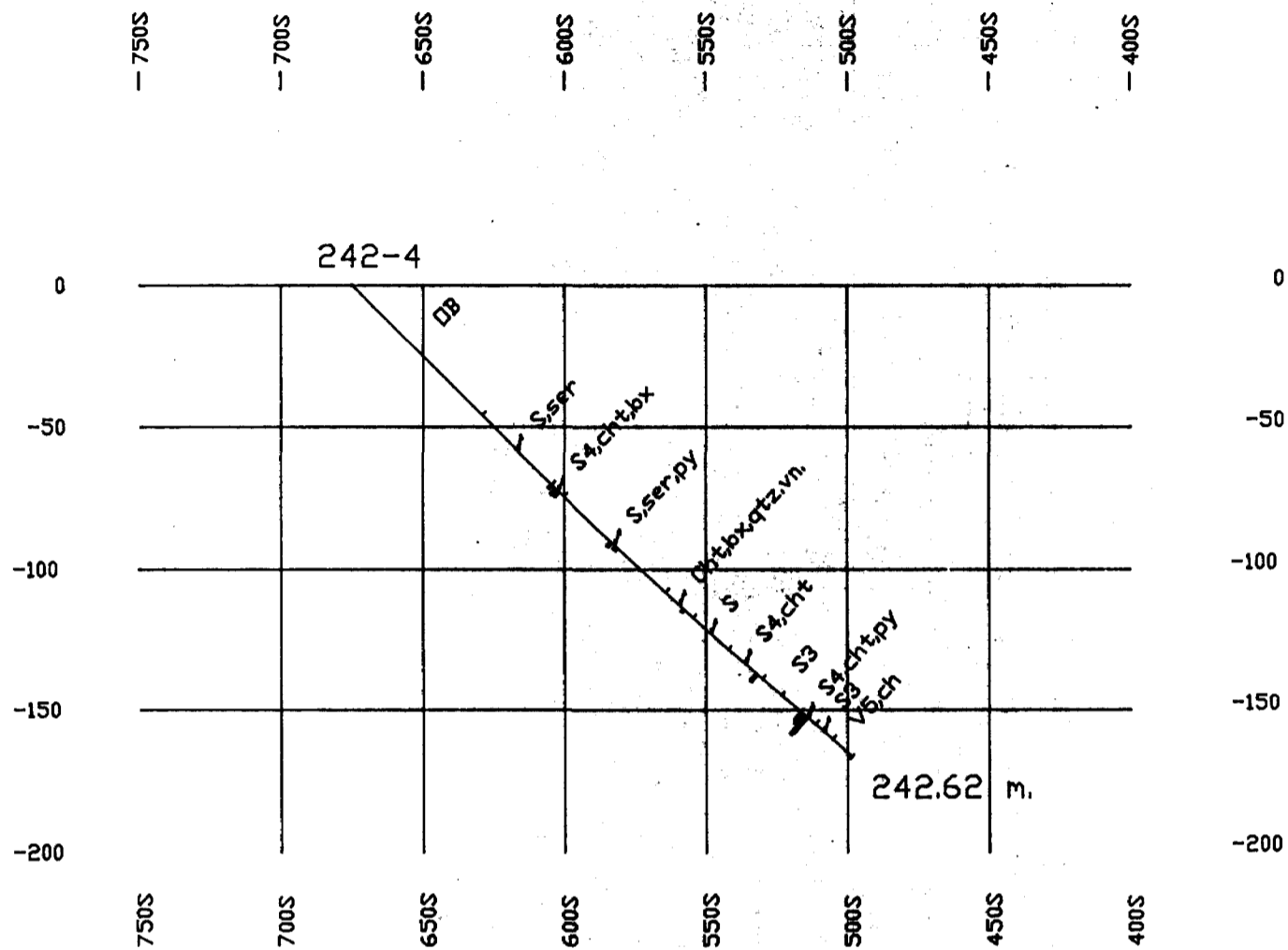
FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
		219.70 to 220.40 Badly broken section, poor core recovery (60%). Sections of semi-massive pyrite over 5 cm, cut by white quartz veinlets and hosted by a grey siliceous gangue. Trace chalcopyrite as well.					
		220.40 to 221.10 Section of LOST CORE. 0% recovery.					
		221.10 to 222.00 Moderate to strong brecciation and grey quartz veining, 1-2% disseminated and fracture-controlled pyrite.					
		222.00 to 222.50 As above, 3% fracture-controlled pyrite.					
		222.50 to 223.30 Less brecciated, well bedded at 60° to the C.A. Semi-massive pyrite associated with dark grey chert. 15% jasper.					
		223.30 to 224.33 Well bedded, minor brecciation, 2-3% chloritic fractures, trace pyrite.					
		224.33 to 225.50 Grey-green chert, slumped subparallel to the C.A. 1% white quartz veining subparallel to the C.A.					
			20719	228.30	229.40	1.10	0
225.50	233.48	GREYWACKE Moderately altered and strongly sheared at 55° to the C.A.	20720	231.47	233.05	1.58	0
		228.20 to 229.40 Moderately brecciated grey chert, 1% pyrite, minor chlorite fractures, 1% white quartz veining.					
		228.20 to 229.40 As above.					
		229.40 to 231.47 Well foliated clastic metasediment, fine-grained, foliation strong at 65° to the C.A. Local minor 1-3 cm faults.					
		231.47 to 233.05 Weakly brecciated and chloritic chert. Trace pyrite.					
		231.47 to 233.05 As above.					
		233.05 to 233.48 Lost core.					

TOTAL ENERGO GOLD CORPORATION

HOLE NO: 242-04

Page No: 10 of 10

FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
233.48	242.62	INTERMEDIATE TO MAFIC METAVOLCANICS Massive, fine grained, dark greenish grey. 10 to locally 30% very fine chlorite crystal development in a n otherwise fine-grained grey- green chloritic matrix. Minor chert interflow. 1% quartz fracture fillings.					
242.62		END OF HOLE					



LEGEND

VOLCANICS

- V2 Felsic
- V4 Intermediate
- V7 Basalt
- V9 Tuff
- V10 Agglomerate

SEDIMENTS

- S3 Graywacke
- S4 Argillite

INTRUSIVES

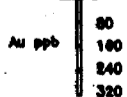
- 1R Felsic
- Db Diabase

- ob overburden
- ft fault
- bx breccia
- p pillowed
- qv quartz vein

- gf graphite
- ser sericite
- fo fuchsite
- ob carbonated
- sl silified
- sl slightly
- alt altered

- po pyrrhotite
- py pyrite
- asp arsenopyrite
- mt magnetite
- Fe iron thioalite

IP Induced Polarization Anomaly



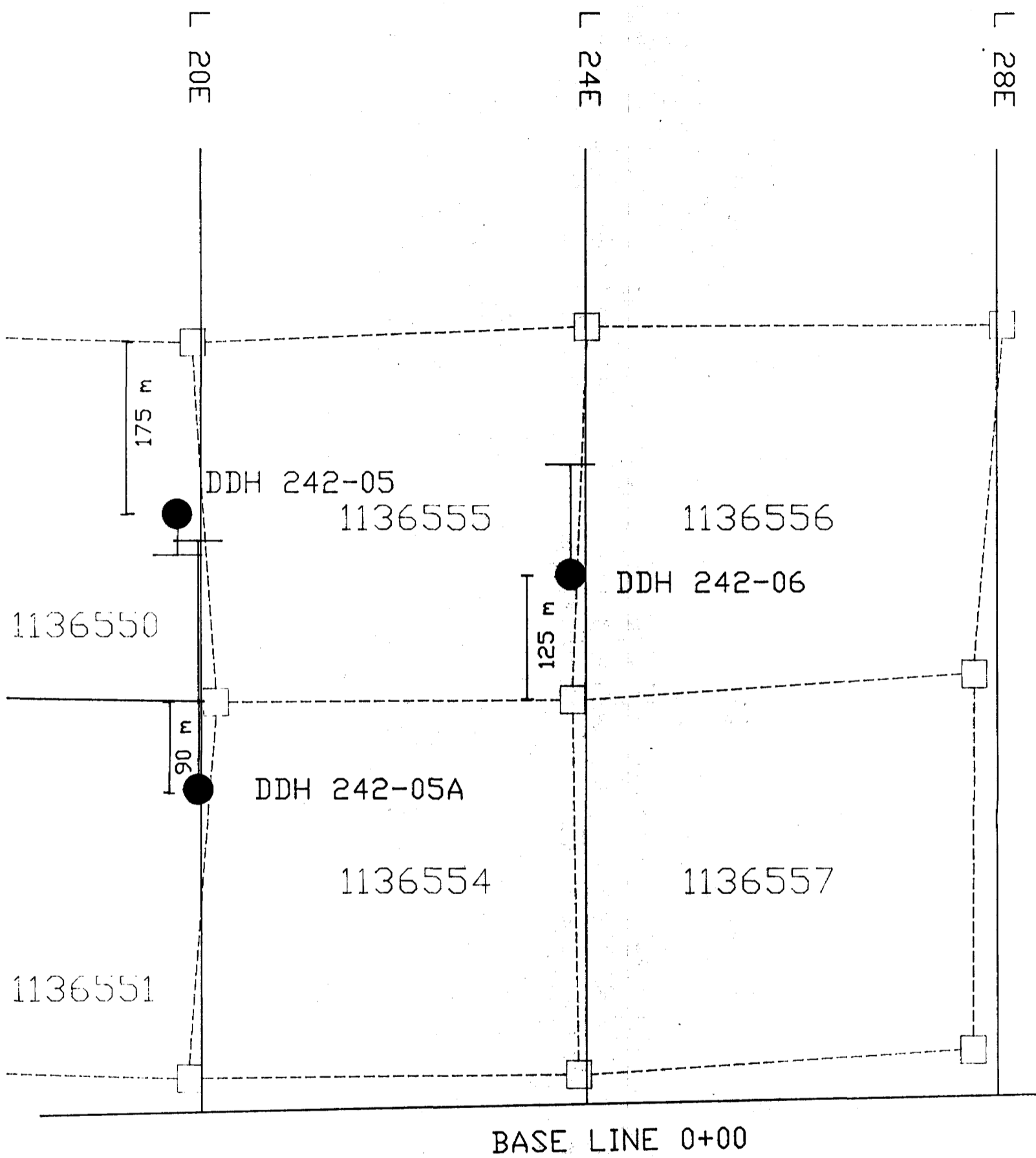
TOTAL ENERGOLD CORPORATION

ST. LAURENT

DDH 242-4
Section 20+00 E
Facing West

Drawn: J.M.P.	Checked: J.M.P.	Scale: 1:2500	Drawing: SL-4
Date: March, 1991	Revised: March, 1991	Province: Ontario	NTS: 32 E/3

0 20 40 60 80 METRES



TOTAL ENERGOLD CORPORATION			
ST. LAURENT			
LOCATION MAP			
DDH 242-05			
Drawn: J.M.P.	Checked: JMP	Scale: 1:2000	Drawing: SL5LOC
Date: March, 1991	Revised: March, 1991	Province: Ontario	NTS: 32 E/5

TOTAL ENERGOLD CORPORATION

DIAMOND DRILL RECORD

Co-ords: 600N Section: L2000E HOLE NO: 242-05
Bearing: 180° Core Size: BQ Property: St. Laurent
Dip: -45° Grid System: Location: St. Laurent Twp.
Elevation: Claim: 1136550
Length: 41.21m Date Started: Feb. 12, 1991
Measurement: metres Date Completed: Feb. 13, 1991
Comments: Logged By: Joe MacPherson

J. A. MacPherson

Depth Azimuth Dip Depth Azimuth Dip Depth Azimuth Dip

LOG SUMMARY

FROM	TO	LITHOLOGY
0.00	28.05	OVERBURDEN
28.05	41.45	SERICITE SCHIST, QUARTZ SERICITE SCHIST
	41.45	END OF HOLE

TOTAL ENERGO GOLD CORPORATION

HOLE NO: 242-05

Page No: 2 of 3

FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
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0.00	28.05	OVERBURDEN Humus, clay, sand, boulders on bedrock.					
------	-------	--	--	--	--	--	--

28.05	41.45	SERICITE SCHIST, QUARTZ SERICITE SCHIST Original rock type appears to be a sequence of fine grained metasediments, varying from argillite to a slightly coarser grained unit, termed siltstone here on the basis of grain size. Rock is light grey green to lime green. It is highly altered and deformed. The most common mineral is sericite. It occurs as one centimeter wisps interlayered with siliceous layers of similar thickness oriented at less than 30° to the C.A. Minor quartz stringers are found associated with the sections of higher sericite content, and make up less than 1% of the rock unit.	20078	28.95	30.16	1.21	0
			20079	30.16	31.67	1.51	0
			20080	31.67	32.88	1.21	0
			20081	32.88	34.57	1.69	0
			20082	34.57	35.48	0.91	0
			20083	35.48	36.40	0.92	10
			20084	36.40	38.41	2.01	0
			20085	38.41	41.45	3.04	7

The fine grained sericitic sections are cut by/interbedded with a fine grained to medium grained quartz rich unit, which may be a quartzite or a quartz porphyritic intrusive. Contacts with the thinly bedded units are generally sharp and may be marked by an irregular quartz vein. These quartz rich sections also contain sericite which form a strong regular foliation at 20 to 30° to the C.A. This foliation is only apparent with the hand lens a cursory examination gives the impression that this unit is uniformly massive and undeformed.

Sample intervals are based on changes in rock type or alteration - ie, from fine grained highly sericitic metasediments to the quartz rich unit.

28.95 to 30.16 Sericitic metasediments. Fine grained, schistose at 25° to the C.A. Broken, blocky. 10 cm of broken quartz veining at lower contact.

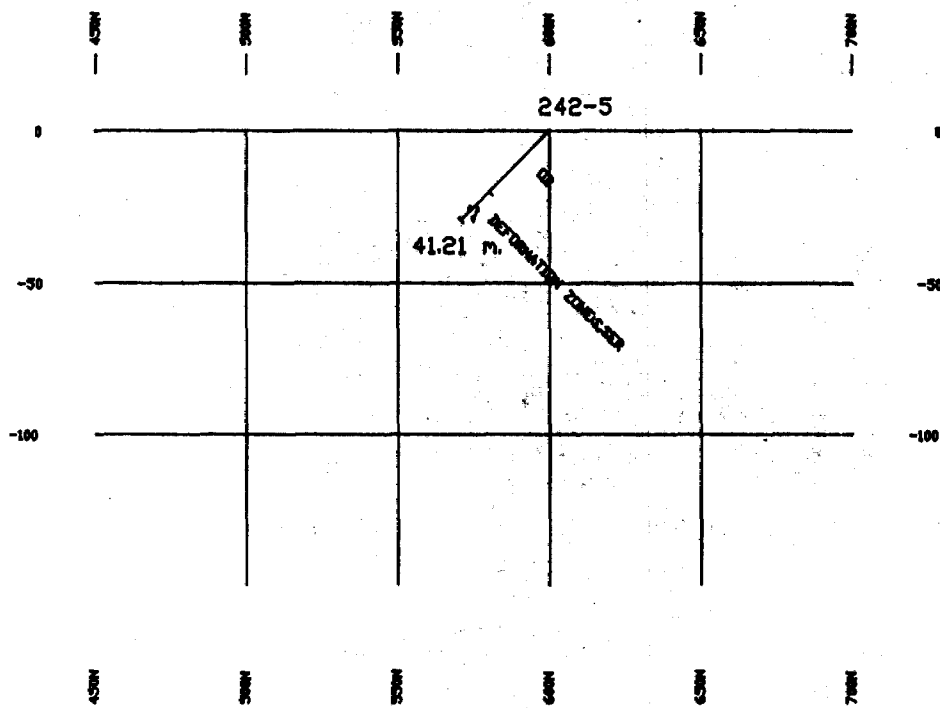
30.16 to 31.67 Fine grained siliceous metasediment or quartz porphyry intrusive Strong foliation represented by parallel alignment of sericite in groundmass. Medium grey, sharp upper and lower contacts.

TOTAL ENERGY GOLD CORPORATION

HOLE NO: 242-05

Page No: 3 of 3

FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
	31.67	32.88					
		Fine grained metasediments, sericitic, deformed. 1% irregular dark grey to black quartz ankerite veinlets with trace pyrite.					
	32.88	34.57					
		Massive, less broken, 30% irregular quartz grains/phenos in a fine grained sericitic matrix, forming a foliation at 30° to the C.A.					
	34.57	35.48					
		Fine-grained metasediments, trace pyrite in sericite/silica bands.					
	35.48	36.40					
		Light greenish grey, schistose quartz rich section. 1% irregular dark grey to black quartz ankerite stringers.					
	36.40	38.41					
		20% lost core. More fissile than previous sections. Thinly bedded metasediments. Broken core. Trace pyrite in isolated siliceous pods less than 1 cm in long axis dimension, parallel to schistosity.					
	38.41	41.45					
		60% lost core. Becoming very fissile, broken down the hole. Interlayering of sericitic and siliceous bands becoming dominant, and bands are wider (2-3 cm locally). Schistosity strong at 25° to the C.A. Occasional siliceous pod with fine grain pyrite.					
41.45		END OF HOLE Hole abandoned due to poor core recovery, low core angles and blocky ground. Hole redrilled to north on 2000E at 325N.					



LEGEND

VOLCANICS

- V2 Felsic
- V4 Intermediate
- V7 Basalt
- V8 Tuff
- V10 Agglomerate

SEDIMENTS

- S3 Graywacke
- S4 Argillite

INTRUSIVES

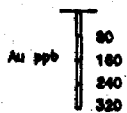
- 1R Felsic
- Db Diabase

- ob overburden
- ft fault
- bx breccia
- p pillowed
- qv quartz vein

- gf graphite
- ser sericite
- fo fuchsite
- ob carbonaceous
- sl silicified
- sl slightly silicified
- alt altered

- py pyrothite
- py pyrite
- cpy arsenopyrite
- mt magnetite
- Fe iron thioleite

- IP Induced Polarization Anomaly



TOTAL ENERGOLD CORPORATION

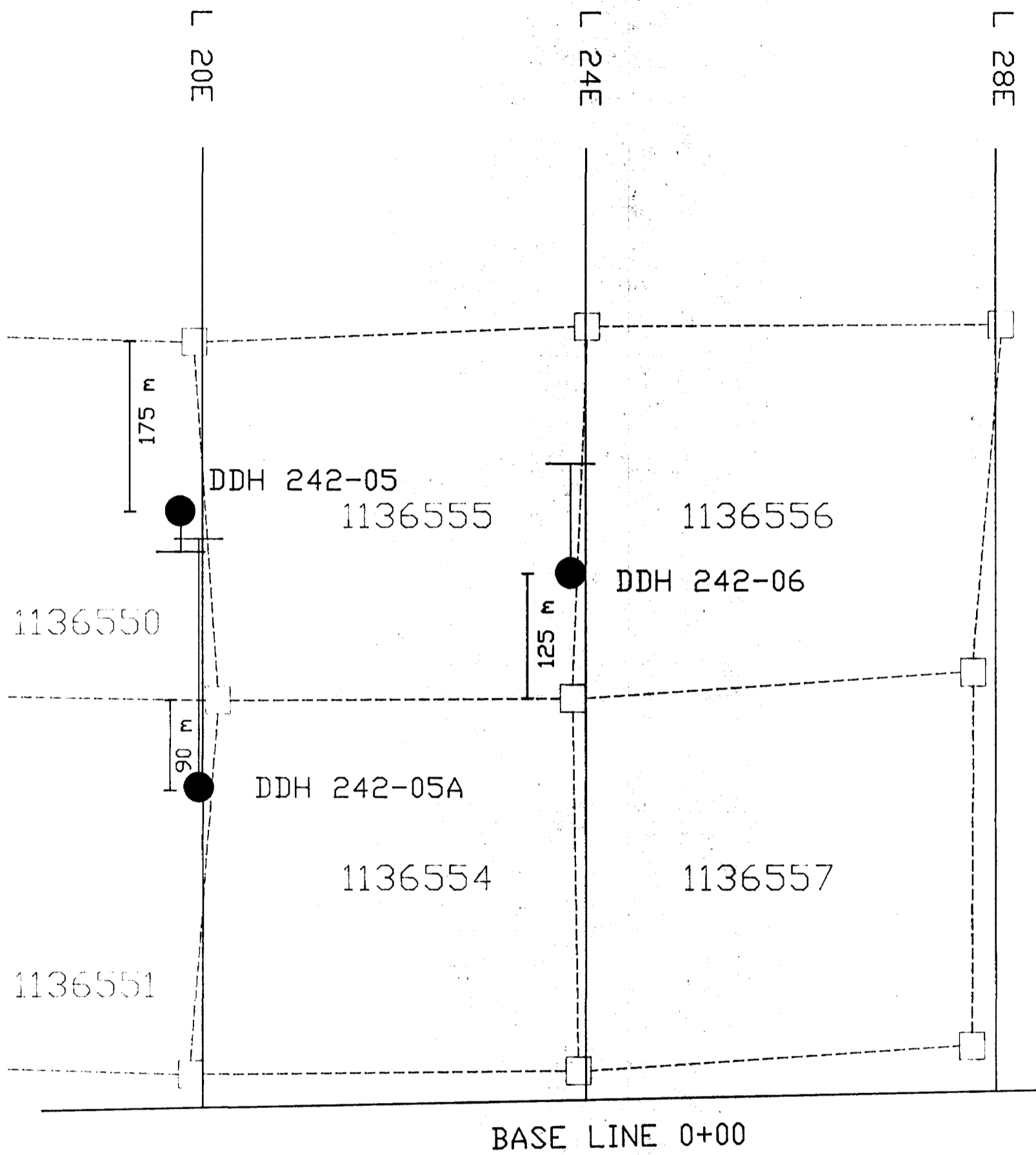
ST. LAURENT

**DDH 242-5
Section 20+00 E
Facing West**

J.M.P.

Drawn: J.M.P.	Checked: J.M.P.	Scale: 1:2500	Drawing: SL-5
Date: March, 1991	Revised: March, 1991	Province: Ontario	NTS: 32 E/5





TOTAL ENERGO GOLD CORPORATION			
ST. LAURENT			
LOCATION MAP			
DDH 242-05A <i>JMP</i>			
Drawn: J.M.P.	Checked: JMP	Scale: 1:5000	Drawing: SL5ALOC
Date: March, 1991	Revised: March, 1991	Province: Ontario	NTS: 32 E/5
0 50 100 150 200 METRES 			

TOTAL ENERGOLD CORPORATION

DIAMOND DRILL RECORD

Co-ords: 325N Section: L2000E HOLE NO: 242-05A
Bearing: 360° Core Size: BQ Property: St. Laurent
Dip: -51° Grid System: Location:
Elevation: Claim: 1136550, 1136551
Length: 401.18m Date Started: Feb. 13, 1991
Measurement: metres Date Completed: Feb. 16, 1991
Comments: Logged By: Joe MacPherson

J. A. MacPherson

Depth	Azimuth	Dip	Depth	Azimuth	Dip	Depth	Azimuth	Dip
24.39		-48°	146.34		-38°	270.12		-36°
85.37		-41°	207.31		-36°	329.27		-32°
						382.92		-29.5°

LOG SUMMARY

FROM	TO	LITHOLOGY
0.00	24.39	OVERBURDEN
24.39	33.04	INTERBEDDED CHERT, SILICEOUS METASEDIMENTS
33.04	41.65	SIDERITE-ANKERITE IRON FORMATION
41.65	44.55	SHEAR ZONE: MIXED ASSEMBLAGE OF SIDERITE IRON FORMATION AND ARGILLITE
44.55	46.06	ARGILLITE
46.06	50.00	SILICIFIED, SERICITIC CHERT
50.00	51.11	QUARTZO-FELDSPATHIC METASEDIMENT
51.11	58.80	CHEMICAL METASEDIMENTS: VARIABLY ALTERED INTERBEDDED CHERT AND MUDSTONE
58.80	77.25	FELSIC METAVOLCANIC FLOWS
77.25	83.27	FELSIC TUFF, CRYSTAL TUFF
83.27	85.93	INTERBEDDED FELSIC CRYSTAL TUFF, INTERFLOW ARGILLACEOUS METASEDIMENTS
85.93	89.00	FINE GRAINED MUDSTONE
89.00	91.35	QUARTZ SERICITE SCHIST
91.35	92.34	QUARTZ CRYSTAL TUFF
92.34	100.98	MODERATELY DEFORMED INTERBEDDED MUDSTONE/ARGILLITE, MINOR CONGLOMERATE AND SEDIMENT BRECCIA

LOG SUMMARY (CONTINUED)

FROM	TO	LITHOLOGY
100.98	127.72	BRECCIATED AND FRACTURED AGGLOMERATE
127.72	139.00	MASSIVE TO LOCALLY FRAGMENTAL RHYODACITE
139.00	152.50	INTERBEDDED FELSIC LAPILLI TUFF, CRYSTAL TUFF AND ARGILLACEOUS METASEDIMENTS
152.50	172.00	FELSIC METAVOLCANICS AND RELATED TUFF, LAPILLI TUFF
172.00	178.85	ALTERED AND SHEARED FELSIC METAVOLCANICS AND RELATED TUFFS
178.85	197.20	QUARTZ EYE RHYOLITE, WEAKLY FOLIATED AND SERICITIC
197.20	332.95	ALTERED ZONE: QUARTZ SERICITE SCHIST (ALTERED FELSIC VOLCANIC FLOWS AND RELATED TUFFS)
332.95	364.35	FELSIC LAPILLI TUFF AND MINOR BEDDED TUFF
364.35	366.37	FELSIC QUARTZ CRYSTAL TUFF
366.37	386.30	MASSIVE QUARTZ EYE RHYOLITE TO RHYODACITE FLOWS
386.30	401.18	DACITE
	401.18	END OF HOLE

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FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
0.00	24.39	OVERBURDEN					
24.39	33.04	INTERBEDDED CHERT, SILICEOUS METASEDIMENTS	20086	26.96	28.90	1.94	0
			20087	28.90	30.15	1.25	0
		Medium grey, hard, well bedded at 70° to the C.A. Individual chert beds vary from 1 to 10 cm in thickness. Narrow sulphide-rich beds (pyrite) comprise < 1% of the unit. Chert is interbedded with siliceous mudstone, which is medium greenish grey and softer than the chert. Overall pyrite content is 1%; locally pyrite occurs in beds < 1cm thick or as discontinuous, randomly oriented fracture fillings. Siderite/ankerite occurs as masses randomly throughout the section, but becomes common towards the end of the section. 2-3% weak quartz crackle fracture with trace sulphides (pyrite).	20088	30.15	31.40	1.25	0
			20089	31.40	33.04	1.64	0
		26.96 to 28.90 First appearance of masses of siderite/ankerite. 10 cm sections centered at 27.15, 27.43, 28.40 meters. The carbonate assemblage is dark brown, amorphous, irregular, and may contain 2-3% pyrite after siderite.					
		31.40 to 33.09 Chert/mudstone assemblage becomes fractured and brecciated, up to 10% randomly oriented quartz veins varying from 0.5 to 5 cm thick. The veins and chert are both cut by irregular fractures filled with dark grey quartz with 1% pyrite. Late fractures make up 2% of the rock by volume. Overall sulphide content of this section has increased to 3%. Most of the pyrite occurs as fine dissemination within the siliceous mudstone breccia fragments, but a minor amount is also found in irregular fractures and also rimming fragments.					
		26.96 to 28.90 Weakly crackle fractured chert/siliceous mudstone. trace pyrite, 1% quartz veining, siderite/ankerite masses.					
		28.90 to 30.15 As above, increasing pyrite content and frequency of crackle fracture towards 31.40 meters. 1-2% diss'd pyrite. Minor sericitic fragments.					

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FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
		30.15 to 31.40 As above, increasing pyrite content and frequency of crackle fracture towards 31.40 meters. 1-2% diss'd pyrite. Minor sericitic fragments.					
		31.40 to 33.04 Moderate intensity of quartz veining and later quartz-filled crackle fracture. 2-3% finely disseminated pyrite.					
33.04	41.65	SIDERITE-ANKERITE IRON FORMATION	20090	33.04	33.78	0.74	0
		Vuggy, intensely brecciated and cut by numerous randomly oriented quartz veins and stringers. Siderite content varies from 5 to 30%. It is massive and may be associated with varying percentages of ankerite, pyrite, and minor calcite. Pyrite may be later than siderite, and may be, along with calcite, an alteration product from siderite. Largest mass of siderite is at 5 cm, at 33.25 meters. Rock is highly weathered and broken. Rusty sections common. Very vuggy locally. Poor water return. Rep sample at 36.8 meters.	20091	33.78	34.83	1.05	0
			20092	34.83	35.83	1.00	0
			20093	35.83	36.80	0.97	0
			20094	36.80	38.65	1.85	0
			20095	38.65	39.70	1.05	0
			20096	39.70	40.36	0.66	0
			20097	40.36	41.65	1.29	0
		33.04 to 33.78 20% white quartz veining, no sulphides in vein, 15% siderite, 1-2% pyrite associated with siderite. Quartz vein contacts at 65° to the C.A. Weak degree of brecciation.					
		33.78 to 34.83 5% white quartz veining, strongly brecciated and vuggy, 15% siderite, broken up by numerous randomly oriented quartz stringers. 1% cubic pyrite.					
		34.83 to 35.83 As above, 7-10% white quartz stringers and veinlets, randomly oriented. Vuggy, highly crackle fractured.					
		35.83 to 36.80 20% siderite, broken by 15% irregular quartz veinlets and stringers. Vuggy, broken, 2% pyrite as cubes in siderite and in irregular fractures.					
		36.80 to 38.65 15-20% siderite, partially remobilized into irregular wisps and replaced in part by cubic pyrite. 15% quartz veining, rusty, irregular. Moderately vuggy, 2-4% pyrite as cubes and fine disseminations in wispy fractures with quartz and sericite.					

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FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
		38.65 to 40.36 Abrupt contact to more competent section of siderite iron formation. Not vuggy or broken. Pervasively silicified, with siderite-rich sections containing up to 7% cubic pyrite over 2-5 cm. Siderite-rich sections are also remobilized and have wavy, smooth contacts with the silicified gangue, which also contains up to 15% yellow ankerite. Minor pyritic fractures in silicified gangue.					
		38.65 to 39.70 10% wispy siderite altered to cubic pyrite (fractures within the siderite), ankerite and calcite. Pyritic fractures in gangue. 5% pyrite on average.					
		39.70 to 40.36 As above, 5% siderite, 2-3% pyrite.					
		40.36 to 41.65 50% siderite/ankerite/calcite, with minor pyrite (cubes) in these masses. Vuggy, but bedding contacts sharp at 60° to the C.A.					
		40.36 to 41.65 50% siderite, 10% quartz veining, 2% cubic & diss'd pyrite.					
41.65	44.55	SHEAR ZONE: MIXED ASSEMBLAGE OF SIDERITE IRON FORMATION AND ARGILLITE	20098	41.65	42.15	0.50	0
			20099	42.15	43.60	1.45	0
			20100	43.60	44.55	0.95	0
		Variably altered section, well foliated to schistose at 70° to the C.A. Sericite noted as foliation parallel wisps in siderite iron formation. 5% irregular quartz veining overall. 1-2% pyrite overall, some sections up to 8% pyrite.					
		41.65 to 42.15 Dark grey, silicified, wispy irregular foliation at 30-70° to the C.A. 15-20% pyrite as cubes, masses and finer disseminations. 2-5% narrow white quartz veins.					
		42.15 to 43.60 80% core recovery. Vuggy, sheared siderite iron formation. Schistosity at 60° to the C.A. 20% quartz ankerite veining.					
		43.60 to 44.55 Shear Zone. Very fissile, broken, intense schistosity at 70° to the C.A. Rusty weathering, otherwise lime green colour. Trace pyrite. Sharp lower contact to					

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FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
		considerably less sheared and altered metasediments.					
	41.65 to 42.15	15-20% pyrite, 2-5% quartz veins.					
	42.15 to 43.60	Siderite IF, sheared, 2% pyrite.					
	43.60 to 44.55	Shear Zone, intensely altered and deformed, trace pyrite.					
44.55	46.06	ARGILLITE Weakly sericitic, well foliated at 70° to the C.A. Consists of alternating bands of lime green (sericitic alteration) and light grey (carbonate alteration). Rock is soft and contains no sulfides. Sharp upper contact with shear zone, moderately sharp lower contact with silicified zone.	20101	44.55	46.06	1.51	0
	44.55 to 46.06	trace pyrite, moderately foliated.					
46.06	50.00	SILICIFIED, SERICITIC CHERT 5% quartz veining and irregular replacements of well banded chert beds with sharp contacts at 65-70° to the C.A. 1% pyrite as large cubes and minor fracture fillings. Colour varies from grey to lime green. 2-3% late irregular crackle fractures filled with grey quartz. Uniformly hard. Becomes well bedded below 46.70 meters - above this, more intense silification causes rock to be more massive in appearance.	20102 20103 20104 20105	46.06 47.70 47.97 49.22	47.70 47.97 49.22 50.00	1.64 0.27 1.25 0.78	0 0 0 0
	46.06 to 47.70	2% cubic pyrite, 5% irregular quartz veining, strongly silicified.					
	46.70 to 49.22	Increase in quartz veining, oriented generally subparallel to the C.A. White, milky, sharp contacts. Veins contain large cubes of pyrite, also pyrite as irregular masses and fracture fillings, and specular hematite as masses and fracture fillings. Pyrite and hematite filled fractures are parallel to quartz vein contacts. Hematite content for section is 1%, pyrite content 1-2%, trace chalcopyrite. Wallrock to the quartz veins is intensely silicified and sericitized with 1-2%					

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FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
		irregular grey quartz-filled crackle fractures. Trace disseminated pyrite in wallrock.					
	47.70 to 47.97	15% light grey quartz veins, randomly oriented, occasional pyrite cube in vein, trace disseminated pyrite in wallrock.					
	47.97 to 49.22	30% white quartz vein, oriented subparallel to the C.A. 1-2% pyrite in vein, 1% specular hematite also. Trace-1% disseminated pyrite in wallrock.					
	49.22 to 50.00	Minor quartz veining, 1-2% fractured controlled pyrite with minor specular hematite, well bedded chert with sharp bedding contacts at 80° to the C.A.					
	49.22 to 50.00	1-2% pyrite, 2% quartz veining.					
50.00	51.11	QUARTZO-FELDSPATHIC METASEDIMENT Sericitic, strongly foliated at 60° to the C.A. Sharp upper and lower contacts. 5-10% subrounded quartz grains set in a fine-grained matrix comprised of sericite and quartz. Trace pyrite.	20106	50.00	51.11	1.11	0
	50.00 to 51.11	Sericitic, trace pyrite, strongly foliated.					
51.11	58.80	CHEMICAL METASEDIMENTS: VARIABLY ALTERED INTERBEDDED CHERT AND MUDSTONE Sequence of variably altered chert and fine-grained mudstone. Bedding contacts are sharp and consistently at 60-65° to the C.A. Alteration in the chert beds is in the form of a moderate quartz crackle fracture and minor fracture-controlled pyrite. Alteration in the mudstone is primarily sericite, with minor narrow quartz stringers. A strong foliation is present parallel to bedding, imparted by parallel alignment of sericite grains. Sharp hardness contrast between the chert and mudstone. Cherty units are sampled: they host all the quartz crackle and the majority of the pyrite mineralization.	20107 20108 20109 20110 20111	51.11 51.97 53.16 54.00 54.88 55.38 56.49 57.50 58.80	51.97 53.16 54.88 56.49 58.80	0.86 1.19 0.88 1.11 1.30	0 0 0 0 0
	51.11 to 51.97	Strongly crackle fractured chert. High degree of deformation, with					

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FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
		crackles occupied mainly by ankerite. Trace pyrite as fine disseminations.					
		51.97 to 53.16 As above, with 10% interbedded sericitic mudstone. Sharp bedding contacts at 60° to the C.A. Trace pyrite in chert beds.					
		54.00 to 54.88 Dark grey, well bedded chert with 10% interbedded siliceous mudstone. Trace pyrite.					
		55.38 to 56.49 Dark grey chert, fractured with 5% quartz veining at low angles to the C.A. Numerous chloritic fractures imparting the darker colour to the chert. 3 cm siderite band with minor secondary pyrite at 55.65 meters.					
		57.50 to 58.80 Crackle-fractured chert, well bedded, thin siderite-bearing stringers parallel to bedding. Irregular wispy 2 cm pyritic stringer at 56.10 meters.					
58.00	77.25	FELSIC METAVOLCANIC FLOWS	20112	60.50	62.33	1.83	0
		Sharp contact with chemical sediments.	20113	65.00	65.84	0.84	0
		Sequence consists of a series of felsic flows, generally strongly altered to sericite, ankerite or both. Ankeritic portions are rusty weathering and vuggy. Local sericitic sections are very fissile and broken. Pyrite content is uniformly trace.					
		58.80 to 60.50 Moderately sericitic, uniform, light green, well foliated at 55° to the C.A. No pyrite.					
		60.50 to 62.33 Sericitic and ankeritic: moderately foliated at 55° to the C.A. Ankerite is present as stringers parallel to foliation and also as irregular discontinuous stringers randomly oriented throughout the section. 90% core recovery in this section. Trace pyrite.					
		60.50 to 62.33 Sericitic and ankeritic felsic volcanic. Trace pyrite.					
		The core is ankeritic to varying degrees to 71.42 meters. Sericite alteration remains uniformly moderate to strong throughout this section. Colour varies from lime green to alternating green and light brown.					

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FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
		65.00 to 65.84 10 cm quartz vein at 60° to the C.A. 1 cm pyritic seam parallel to foliation at 65.50 meters.					
		65.50 to 67.20 Broken, very fissile, 60% core recovery. Strongly sericitic.					
		67.80 to 68.54 Ankeritic and sericitic felsic volcanic. Very fissile, highly altered. Trace pyrite.					
77.25	83.27	FELSIC TUFF, CRYSTAL TUFF	20115	77.25	78.03	0.78	0
		Well bedded, strongly foliated felsic tuff and feldspar crystal tuff. Strongly sericitic, locally moderately ankeritic. 5% rounded quartz eyes scattered throughout this section. Colour is banded lime green and grey, with rusty brown ankeritic sections. Foliation is strong at 65-75° to the C.A. Minor graphitic slips towards the bottom of the section.	20116	78.03	79.55	1.52	0
			20117	79.55	81.08	1.53	0
			20118	81.08	81.77	0.69	0
			20119	81.77	83.27	1.50	0
		77.25 to 78.03 25 cm of interflow sediment with 2 1 cm bands of semi-massive pyrite. Dark grey, well bedded & foliated at 65° to the C.A. 20 cm of strong ankerite alteration at bottom of section.					
		78.03 to 79.55 Sericitic feldspar crystal tuff with minor argillite component. 5% foliation parallel quartz veinlets, trace pyrite in vein.					
		79.55 to 80.18 as above, 5% argillaceous slips, 1% pyrite in slips, 1-2% foliation parallel quartz veinlets.					
		80.18 to 81.77 as above, 10% argillaceous slips, trace pyrite, 5% foliation parallel quartz veinlets.					
		81.77 to 83.27 5% argillaceous slips (graphitic?) parallel to strong schistosity. 95% feldspar crystal tuff (10% subhedral feldspar, 1-2% anhedral quartz).					
83.27	85.93	INTERBEDDED FELSIC CRYSTAL TUFF, INTERFLOW ARGILLACEOUS METASEDIMENTS	20120	83.27	84.00	0.73	0
		75% felsic feldspar crystal tuff interbedded with 25% fine grained, thinly bedded argillite with minor graphitic slips. Masses and seams of fine	20121	84.00	85.00	1.00	7
			20122	85.00	85.93	0.93	0

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FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
		grained pyrite aligned parallel with foliation, at 60° to the C.A. Alteration is moderate to strong, in the form of sericite and minor silification. 10% quartz veining parallel to foliation. Overall, there is 2-3% pyrite.					
		83.27 to 84.00 80% feldspar crystal tuff, 20% argillaceous interbeds. Latter very thin (mm) and convoluted. Pyrite present as wispy masses and lenses roughly parallel to foliation. 5% quartz veining or replacements parallel to schistosity.					
		84.00 to 85.00 25% foliation parallel quartz veining, with 5% very finely disseminated pyrite in the veins associated with argillaceous or graphitic slips in the veinlet. Host is mainly felsic feldspar crystal tuff with minor interbedded argillite. Pyrite also occurs as irregular wisps and lenses less than a centimeter long oriented parallel to foliation.					
		85.00 to 85.93 as above, 15% foliation parallel quartz veining, 3-5% pyrite in elongate lenses and wisps also parallel to the C.A.					
85.93	89.00	FINE-GRAINED MUDSTONE Strongly deformed, weakly altered. Strong foliation at 55° to the C.A. Unit is dark grey, soft. Numerous black argillaceous (graphitic?) slips parallel to foliation. 2% foliation parallel quartz veins, on average less than 5 cm wide. Rare narrow discontinuous pyrite band parallel to foliation.	20123 20124 20125	85.93 87.00 88.00	87.00 88.00 89.00	1.07 1.00 1.00	0 0 0
		85.93 to 87.00 Weakly altered, strongly deformed, trace pyrite.					
		87.00 to 88.00 As above, rare pyritic seam.					
		88.00 to 89.00 Becoming very fissile towards lower contact, trace pyrite, 1% quartz veining.					
89.00	91.35	QUARTZ SERICITE SCHIST Fissile, strongly deformed and sericitic. Consists of alternating thin bands of grey quartz and bright green sericite. The sericite forms a wavy foliation at an average of 55° to the C.A. Quartz bands host 5-10% cubic pyrite. 1% late white quartz veins parallel to foliation.	20126	89.00	91.35	2.35	0

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FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
		89.00 to 91.35 1-2% disseminated cubic pyrite, sericitic.					
91.35	92.34	QUARTZ CRYSTAL TUFF Strongly sheared and deformed, core broken, 80% core recovery, very fissile. Less than 5% rounded white quartz eyes are visible. Local 1-5 cm bands of intense silicification. Light grey colour, occasional light green sericitic wisp parallel to foliation, which is at 55-60° to the C.A.	20127	91.35	92.34	0.99	0
		91.35 to 92.34 trace pyrite, strongly deformed.					
92.34	100.98	MODERATELY DEFORMED INTERBEDDED MUDSTONE/ARGILLITE, MINOR CONGLOMERATE AND SEDIMENT BRECCIA Locally pyritic, weakly sericitic with patchy silicification. Uniformly medium to dark grey. Highly variable, but appears to be mainly a reworked sedimentary breccia, with fractures and matrix replaced by a pyrite/silica mixture. The greatest degree of brecciation and subsequent silica/pyrite injection occurs between 91.35 and 96.93 meters.	20128 20129 20130 20131 20132	92.34 93.00 94.00 95.00 96.00 96.00	93.00 94.00 95.00 96.00 96.93	0.66 1.00 1.00 1.00 0.93	0 0 0 0 0
		92.34 to 93.00 Up to 20% fracture controlled, locally semi-massive pyrite occurring as irregular masses up to 5 cm wide.					
		93.00 to 94.00 As above, 15-20% pyrite.					
		94.00 to 95.00 Less fractured, considerably less pyrite (5%). More uniform.					
		95.00 to 96.00 Weak fracturing after brecciation, 1% pyrite.					
		96.00 to 96.93 96.60-96.93 meters is well fractured and pyritic (20%). Overall, 10% pyrite in section.					
		96.93 to 100.98 Weakly fractured argillite: fractures occupied by chlorite. Rock is medium grey, weakly foliated. Obscure bedding is oriented at 60° to the C.A.					

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FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
100.98	127.72	BRECCIATED AND FRACTURED AGGLOMERATE	20133	100.98	101.50	0.52	0
		Siliceous clasts of varying size present, set in a fine grained chloritic matrix. Random chloritic fractures present locally. Pyritic fractures common locally as well. Local strong pervasive calcite.	20134	101.50	102.50	1.00	0
			20135	102.50	103.50	1.00	0
			20136	103.50	104.00	0.50	0
			20137	104.00	104.50	0.50	0
			20138	104.50	105.50	1.00	0
			20139	105.50	106.25	0.75	0
			20140	106.25	107.00	0.75	0
		100.98 to 104.50 Fine grained, well foliated at 60° to the C.A. 20% interbedded chloritic argillite, also 5% random chloritic fractures. Unit is dark grey to black, becoming lighter grey (due to less chloritic interbeds) towards 104.50 meters. Clasts are small (< 1 cm), siliceous, and elongated parallel to foliation. Pyrite occurs with quartz as irregular fracture fillings and rims around some of the larger clasts.	20141	107.00	108.00	1.00	0
			20142	108.00	108.84	0.84	0
			20143	108.84	109.58	0.74	7
			20144	109.58	110.55	0.97	0
			20145	110.55	111.79	1.24	0
			20146	124.90	126.26	1.36	0
			20147	126.26	127.72	1.46	0
		100.98 to 101.50 5% pyrite, clast size varies from .5 cm to 2 cm. 20% argillaceous fracture fillings. Pyrite associated with quartz mantling fragments and in random fractures.					
		101.50 to 102.50 1% fracture-filling pyrite, minor calcitic fractures.					
		102.50 to 103.50 Brecciated, clasts difficult to distinguish. 2% fracture-filling pyrite.					
		103.50 to 104.00 3% pyrite as fracture fillings with grey quartz. Lighter grey colour than previous sections. Less chloritic fractures and interbeds.					
		104.00 to 104.50 1% pyrite, clasts less than .5 cm, strongly calcitic.					
		104.50 to 109.58 Coarse agglomerate. Homolithic - felsic clasts (massive aphanitic rhyolite, rare quartz eye rhyolite) varying from 1 to 4 cm in dimension. Light grey. 5% random chloritic fractures. Quartz occurs with pyrite in random fractures and also mantling clasts.					
		104.50 to 105.50 Locally moderately brecciated, 5% pyrite in fractures with grey quartz.					
		105.50 to 106.25 Weakly brecciated, 2% pyritic fractures (+/- grey quartz).					

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FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
	106.25 to 107.00	5% random chloritic fractures, 2-3% grey quartz-pyrite fractures.					
	107.00 to 108.00	Several large clasts (> 5 cm), 2% chloritic fracture fillings, 2% grey quartz/pyrite fracture fillings.					
	108.00 to 108.84	Well brecciated, 5% chloritic fractures, 1% grey quartz/pyrite fracture fillings.					
	108.84 to 109.58	25% grey quartz/pyrite fracture fillings with ankerite - locally semi-massive.					
	109.58 to 111.79	10% quartz ankerite veining, subparallel to the C.A. Minor pyrite.					
	109.58 to 110.55	10% quartz veining, 1% pyrite					
	110.55 to 111.79	10% quartz veining, 1% pyrite					
	111.79 to 127.72	Felsic agglomerate, continued. Less fracture controlled pyrite, clasts continue to be homolithic, angular to rarely subrounded. Core is light grey, moderately hard, cut by 1-2% chloritic fractures.					
	124.90 to 126.26	1% pyrite in fractures, a 20 cm quartz vein at low angles to the C.A., with chloritic margins.					
	126.26 to 127.72	20 cm quartz ankerite vein at 126.90 meters, <1% pyritic fractures.					
20148	127.72	MASSIVE TO LOCALLY FRAGMENTAL RHYODACITE	20148	131.30	132.57	1.27	0
20149			20149	134.80	136.28	1.48	0
20150		Massive, light to medium grey, compositionally very similar to agglomerate in previous section, except for more homogeneous nature and lack of distinguishable clasts. Minor to locally 25% chloritic fractures and interflow chloritic argillite. Locally fragmental with fracture-controlled and clast-mantling pyrite and grey quartz.	20150	136.28	137.00	0.72	0
20151			20151	137.00	138.00	1.00	0
20152			20152	138.00	139.00	1.00	0
	131.30 to 132.57	Fragmental. Distinct clasts rimmed with chlorite, minor fracturing. Local fracture-controlled grey quartz and pyrite (3% of section).					

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FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
		131.30 to 132.57 3% grey quartz and pyrite fracture fillings.					
		134.50 to 139.00 Fragmental. Similar to section from 131.30-132.57 meters. More fracture-controlled pyrite hosted by grey quartz. This material could be original and remobilized by deformation. Chlorite fractures may have a similar origin (related to deformation and alteration).					
		134.80 to 136.28 1% irregular grey quartz/pyritic fractures. At 136.28 meters there is a 3 cm band of pyrite and grey quartz with minor ankerite.					
		136.28 to 137.00 5% fracture-controlled and clast rimming pyrite/grey quartz.					
		137.00 to 138.00 25% fracture-controlled and clast-rimming pyrite/grey quartz. Locally vuggy in areas of semi-massive pyrite. Individual pyrite masses have a maximum extent of 5 centimeters.					
		138.00 to 139.00 15% fracture-controlled and clast-rimming grey quartz and pyrite. A couple of 1 cm massive pyrite bands.					
139.00	152.50	INTERBEDDED FELSIC LAPILLI TUFF, CRYSTAL TUFF AND ARGILLACEOUS METASEDIMENTS Light grey felsic lapilli tuff to bedded tuff, intercalated with thinly bedded, black argillite, largely altered to chlorite. Felsic volcanics are weakly altered to sericite in patches and hard.					
152.50	172.00	FELSIC METAVOLCANICS AND RELATED TUFF, LAPILLI TUFF Thick sequence of unaltered to locally weakly sericitic massive felsic flows and tuffs, with minor lapilli tuff. Trace pyrite as isolated cubes and rare discontinuous thin bands. No quartz veining. Rock is uniformly hard, except in the areas of weak sericite alteration.					
		163.88 to 166.88 Weak patchy sericitization, restricted to tuffaceous sections. Weak greenish tinge, slightly softer than unaltered felsic tuffs.					

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FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
172.00	178.85	ALTERED AND SHEARED FELSIC METAVOLCANICS AND RELATED TUFFS	20153	172.00	173.00	1.00	0
		Mixture of fine-grained felsic tuffs and aphanitic felsic flows. Light grey, well foliated to locally intensely sheared over 10-20 cm - these zones are moderately sericitic. The foliation is oriented at 65-70° to the C.A. Locally a crenulation cleavage is well developed at nearly right angles to the C.A. This is present only in the most highly deformed sections. 1-2% white quartz veining, trace to locally 1% disseminated to cubic pyrite.	20154	173.00	174.00	1.00	0
			20155	174.00	175.00	1.00	0
			20156	175.00	176.00	1.00	0
			20157	176.00	176.70	0.70	10
			20158	176.70	177.40	0.70	10
			20159	177.40	178.85	1.45	0
		172.00 to 173.00 Moderately foliated, weak crenulation cleavage, 2% pyrite in wavy foliation planes.					
		173.00 to 174.00 Well foliated to sheared, local broken rock, 10% quartz veining and irregular quartz ankerite replacements with diffuse contacts. trace-1% cubic pyrite. Foliation at 60° to C.A.					
		174.00 to 175.00 As above, moderate sericite development, trace pyrite.					
		175.00 to 176.00 As above, trace pyrite.					
		176.00 to 176.70 3 cm white quartz vein at right angles to the foliation and 45° to the C.A.					
		176.70 to 177.40 Shear Zone. Very fissile pyritic shear, oriented at 50° to the C.A. Rusty section at 176.70 meters is 10 cm wide. Very sericitic on footwall of shear for 30 cm. Shear is roughly 40 centimeters wide. 3% fine disseminated pyrite in narrow bands parallel to shearing.					
		177.40 to 178.85 Shearing intensity decreasing down the hole. Moderately sericitic felsic flow, occasional rounded quartz eye, trace pyrite.					
178.87	192.20	QUARTZ EYE RHYOLITE, WEAKLY FOLIATED AND SERICITIC					
		Light greyish green, hard, weakly foliated at an average of 55° to the C.A. 5% translucent rounded quartz eyes scattered throughout the section. Greenish tinge is caused by weak					

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FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
		pervasive sericite alteration, which is also responsible for the weak foliation.					
		182.00 3 cm Fault Zone, oriented at 60° to the C.A.					
		Degree of deformation is increasing towards the bottom of the section. Occasional 1-2 cm wide white quartz vein after 191 meters.					
197.20	332.95	ALTERED ZONE: QUARTZ SERICITE SCHIST (ALTERED FELSIC VOLCANIC FLOWS AND RELATED TUFFS)	20160	197.20	199.60	2.40	0
		Unit consists of thin felsic flows and crystal tuffs to bedded tuffs. The tuffaceous units are strongly deformed altered to an assemblage of banded grey quartz interspersed with thin wispy sericite stringers. This imparts an banded grey and green colour to the core. Where visible, the crystal tuff contains 5% rounded quartz eyes, and the occasional large feldspar grain (.5 cm in diameter). Lapilli occur rarely and are usually massive aphanitic rhyolite to quartz eye rhyolite. Lapilli are generally less sericitic than the supporting matrix.	20161	199.60	200.38	0.78	0
			20162	200.38	201.93	1.55	0
			20163	201.93	203.66	1.73	0
			20164	203.66	205.35	1.69	0
			20165	205.35	207.20	1.85	0
			20166	207.20	208.07	0.87	0
			20167	231.40	232.65	1.25	7
			20168	232.65	233.70	1.05	0
			20169	233.70	235.40	1.70	0
			20170	235.40	236.25	0.85	0
			20171	236.25	237.32	1.07	0
			20172	237.32	237.85	0.53	0
			20173	237.85	239.30	1.45	0
			20174	239.30	240.53	1.23	0
			20175	241.28	242.03	0.75	0
		197.20 to 199.60 Strongly foliated at 55° to the C.A., weakly sericitic, 15% chloritic stringers and wispy parallel to foliation. Trace pyrite.	20176	242.03	243.19	1.16	0
			20177	243.19	244.46	1.27	0
			20178	244.46	245.67	1.21	0
			20179	245.67	246.57	0.90	0
		199.60 to 200.38 Strongly deformed and sericitic. Well banded, consists of alternating sericitic and grey quartz, < than 1 cm wide, cut by foliation parallel 1-2 cm wide white quartz veinlets (5% of section). Trace pyrite.	20180	259.35	260.91	1.56	0
			20181	260.91	262.40	1.49	0
			20182	262.40	263.96	1.56	0
			20183	264.80	266.12	1.32	0
			20184	267.94	269.80	1.86	0
			20185	271.37	272.37	1.00	0
		200.38 to 201.93 As above, 10% lapilli tuff, trace pyrite.	20186	272.37	273.73	1.36	0
			20187	278.30	279.63	1.33	0
			20188	279.63	281.15	1.52	0
		201.93 to 203.66 As above, trace pyrite, sericitic bands narrow and wispy - foliation varies from 45 to 70° to the C.A.	20189	284.53	285.29	0.76	0
			20190	288.75	289.70	0.95	0
			20191	289.70	290.40	0.70	0
			20192	290.40	291.70	1.30	0
		203.66 to 205.35 Intense sericite alteration, strong deformation, trace pyrite, 5% foliation parallel white quartz veinlets.	20193	291.70	293.16	1.46	7
			20194	293.16	294.03	0.87	7
			20195	294.03	295.50	1.47	0
			20196	295.50	296.50	1.00	0
		205.35 to 207.20 Grey, unaltered lapilli tuff, well foliated at 45° to the C.A. Matrix to lapilli is a fine mudstone. Sharp upper and lower	20197	296.50	297.00	0.50	0
			20198	297.00	297.50	0.50	0
			20199	297.50	298.00	0.50	0

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FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
		contacts to much more sericitic material.	20200	298.00	299.00	1.00	0
			20201	299.00	300.00	1.00	0
	205.35 to 207.20	Grey lapilli tuff, trace pyrite.	20202	300.00	301.00	1.00	0
			20203	301.00	302.30	1.30	0
	207.20 to 208.07	Strongly sheared and intensely sericitized quartz eye rhyolite. Sharp alteration contacts. Shearing consistent at 35° to the C.A.	20204	305.05	306.63	1.58	0
			20205	306.63	308.15	1.52	0
			20206	308.15	309.68	1.53	0
			20207	309.68	310.50	0.82	0
			20208	310.50	311.50	1.00	0
	207.20 to 208.07	Intensely sheared and deformed, trace pyrite.	20209	311.50	312.50	1.00	0
			20210	312.50	313.00	0.50	0
			20211	313.00	314.00	1.00	0
	208.07 to 231.40	Sequence of mixed felsic quartz eye to aphanitic flows interlayered with bedded to locally bedded crystal tuff and minor lapilli tuff. Rock is uniform no quartz veining, attitude of foliation varies between 45 and 60° to the C.A. Occasional pyrite clast (< < 1cm), local moderate to strong sericite alteration, on average, sericite alteration is weak to moderate. This section is still considered part of a wide shear/alteration zone.	20212	314.00	315.00	1.00	0
			20213	321.00	321.88	0.88	0
			20214	322.78	323.55	0.77	0
			20215	324.93	325.80	0.87	0
			20216	325.80	327.17	1.37	0
			20217	327.17	327.98	0.81	0
			20218	327.98	329.45	1.47	0
			20219	329.45	330.30	0.85	0
			20220	330.30	331.30	1.00	0
			20221	331.30	331.85	0.55	0
			20222	331.85	332.30	0.45	0
	231.40 to 240.53	Quartz veined shear zone. Moderately sericitic, highly sheared. locally unconsolidated fault gouge. White milky quartz veins intrude parallel to sericitic slips and are oriented at 55° to the C.A. These make up about 10% of the section. A further 3-5% of the shear zone is cut by irregular dark grey quartz ankerite veinlets which rarely attain 1 cm in width. These pinch and swell throughout the section. Sulfide content is uniformly trace.	20223	332.30	332.95	0.65	17
	231.40 to 232.65	Probable massive felsic volcanic, 3% irregular dark grey quartz ankerite veinlets. Flow is grey with light green sericitic streaks. Nil pyrite.					
	232.65 to 233.70	Tuff to lapilli tuff. 5% white quartz veining, 2-4% irregular dark grey quartz ankerite veining. 1% very fine disseminated pyrite, usually associated with strongly sericitic fragments.					
	233.70 to 235.40	Strongly sericitized thinly bedded tuffs. Strong foliation at 50° to the C.A. Trace pyrite.					

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FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
		235.40 to 236.25 Intensely sheared rock. 25 cm of unconsolidated fault gouge at 235.75 meters. 10 cm graphitic shear centered at 235.50 meters. 10% quartz veining, trace pyrite.					
		236.25 to 237.32 Very fissile, sericitic, strong fabric at 65-70° to the C.A. 2% foliation-parallel quartz veining.					
		237.32 to 237.85 50% dark grey quartz veining, strongly sericitized wallrock, sericitic inclusions and wisps within the quartz veins, which reach a maximum width of 30 cm. 1 cm of unconsolidated fault gouge at 237.37, which marks the start of the main mass of quartz veining.					
		237.85 to 239.30 20% quartz veining, as above, strongly sericitic wallrock, trace cubic pyrite in wallrock.					
		239.30 to 240.53 Decreasing intensity of shearing and sericite alteration towards the bottom of the section. A few quartz eyes evident. 5% veining, of both the dark grey quartz ankerite and white milky quartz variety.					
		240.53 to 241.28 Less altered felsic flows and minor bedded tuff. Weakly sericitic and foliated at 60° to the C.A.					
		241.28 to 246.59 Quartz veined shear zone. Shearing not as intense and less veined than previous section. Rock locally broken with minor amounts of unconsolidated fault gouge. Local strong schistosity at 25 to 60° to the C.A. 5% quartz veins, of both varieties, overall.					
		241.28 to 242.03 Numerous thin slips (< 1 cm wide), filled with fault gouge. 10 cm of fault gouge at 246.70 meters. 10% dark grey quartz veining oriented parallel to foliation. Trace disseminated pyrite.					
		242.03 to 243.19 1-2% irregular dark grey quartz ankerite veinlets, 75% dark grey quartz ankerite veining from 242.90-243.19 meters. Trace pyrite.					

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FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
	243.19 to 244.46	Minor quartz veining. First appearance of small rounded black quartz eyes.					
	244.46 to 245.67	Strongly sheared and quartz veined. Schistosity strong and deformed, oriented from 10 to 75° to the C.A. Minor white quartz veining, 20% irregular dark grey quartz ankerite veins, up to 10 cm wide, trace pyrite only.					
	245.67 to 246.57	50% dark grey quartz ankerite veining, strongly sericitic wallrock.					
	246.57 to 259.35	Assemblage of variably sericitic and strongly foliated felsic flows and related tuffs, minor lapilli tuffs. 1% black quartz-ankerite-calcite blebs, subrounded, sometimes elongated parallel to foliation - originally the rock may have been a quartz crystal tuff or quartz eye rhyolite. If so, it is extremely highly deformed and altered. 1% foliation-parallel quartz veins and 1-2% irregular dark grey to black quartz ankerite stringers and masses. Pyrite content uniformly low. Foliation varies from 45 to 60° to the C.A.					
		Narrow shears with minor unconsolidated fault gouge at 249.05 and 255.09 meters.					
	259.35 to 260.91	Moderately sheared and quartz veined felsic flows and related tuffs. Minor lapilli-size fragments noted. Strongly sericitic, with sericite masses up to 5 cm wide common. 20% quartz ankerite veining, broken and irregular, but generally intruding parallel to foliation.					
	260.91 to 262.40	30% sericite masses in section. 15% dark grey quartz ankerite veins, trace pyrite.					
	262.40 to 263.96	As above, 10% dark grey quartz ankerite veining. A 5 cm pink quartz vein intrudes at 10° to the C.A., centered at 263.00 meters.					

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FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
		263.96 to 264.80 Minor sericite alteration, trace pyrite. Light greenish grey.					
		264.80 to 266.12 Moderate shearing, moderate sericite development. 1 cm fault gouge at 265.00 meters. Sericite forms strong foliation at 55° to the C.A.					
		264.80 to 266.12 Trace pyrite, 3% dark grey quartz ankerite veinlets.					
		266.12 to 267.94 Less deformed, 1-2% dark grey quartz ankerite veinlets.					
		267.94 to 269.80 Moderate to locally strong deformation, local intense sericite development in areas of strong deformation, over 25 cm.					
		267.94 to 269.80 Sericitic, trace pyrite, 5% dark grey quartz ankerite veinlets, developed parallel to and crosscutting foliation planes.					
		269.80 to 271.37 Medium green, less deformed, trace pyrite, 1-2% dark grey quartz ankerite veinlets.					
		271.37 to 273.73 Moderately sheared and highly altered and quartz veined felsic volcanics. 15% dark grey quartz ankerite veinlets, 1% white quartz veinlets.					
		271.37 to 272.37 Moderate to strong sericite development, 5% quartz ankerite veinlets, trace pyrite.					
		272.37 to 273.73 15% dark grey quartz ankerite veinlets, sericite forming string foliation at an average of 80° to the C.A.					
		273.73 to 278.30 Massive to weakly foliated, moderately to strongly sericitic quartz eye rhyolites and minor quartz eye crystal tuff.					
		278.30 to 281.15 Zone of shearing and quartz veining. Moderate to strong intensity. Local intense development of sericite, forming a strong foliation at 55° to the C.A.					

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FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
	278.30 to 279.63	Strongly sericitic and sheared from 279.00-279.20 meters. 5% medium grey quartz ankerite veinlets, trace pyrite.					
	279.63 to 281.15	Less sheared, continuing strong sericite development. Trace pyrite.					
	281.15 to 284.53	Moderate sericite development, weak foliation at 55° to the C.A., light greenish grey.					
	284.53 to 285.29	Moderate shearing, accompanied by 25 cm of white quartz ankerite veining with numerous chloritic slips.					
	284.53 to 285.29	30% quartz ankerite veining, trace pyrite, chloritic slips.					
	285.29 to 288.75	Uniformly light greenish grey, 1% irregular quartz ankerite veinlets, trace pyrite, massive to weakly foliated.					
	288.75 to 332.95	Complex zone of shearing, local silicification, quartz veining, and secondary pyrite development. Several strong shears noted throughout the section, marked by intense sericite development or unconsolidated fault gouge over a few cm.					
		Silicification occurs over 10-100 cm intervals and is pervasive and often accompanied by a moderate to intense crackle fracture filled with grey quartz. Pyrite content is usually low in these sections.					
		Veining occurs as both the dark grey quartz ankerite and white quartz variety. The dark quartz ankerite variety occurs as irregular veinlets and masses, locally oriented parallel to the foliation, or as cross-cutting later stringers. The white veins occur parallel to schistosity and often exhibit sericitic margins and inclusions.					
		Pyrite occurs with grey quartz and sericite in narrow bands less than 1 cm wide or as discontinuous lenses less than 1 cm in long dimension (oriented parallel to foliation).					

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FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
	288.75 to 289.70	Local strong sericite development, 20 cm of silicification with minor grey quartz crackle fracture.					
	289.70 to 290.40	Moderate silicification, grey quartz crackle fracture, trace pyrite.					
	290.40 to 291.70	As above.					
	291.70 to 293.16	1 cm fault gouge at 291.7, 292.3 meters. 2-5 cm white quartz veins with chloritic fractures associated with gouge sections.					
	293.16 to 302.30	Pyritic section. Locally up to 5% pyrite associated with grey quartz sericite lenses, masses and bands oriented parallel to foliation.					
	293.16 to 294.03	5-7% pyrite, in quartz sericite bands parallel to foliation.					
	294.03 to 295.50	1% pyrite, in isolated quartz sericite lenses, weakly foliated at 55° to the C.A.					
	295.50 to 296.50	1-2% pyrite as very fine disseminations in quartz sericite bands and lenses.					
	296.50 to 297.00	As above, 1% pyrite in darker quartz sericite bands, well foliated at 50° to the C.A.					
	297.00 to 297.50	Quartz chlorite vein, 5 cm wide, at low angles to the C.A. Sharp contacts with sericitic wallrock. Numerous chloritic fractures within vein.					
	297.50 to 298.00	Low angle quartz chlorite vein, continued. Also a 5 cm white quartz veinlet and white quartz mass, at 297.8 meters.					
	298.00 to 299.00	Minor indistinct quartz-sericite-pyrite masses and discontinuous lenses.					
	299.00 to 300.00	As above, more continuous parallel to foliation.					

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FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
	300.00 to 301.00	0.5% pyrite associated with quartz sericite masses and foliation parallel discontinuous lenses. Intense sericite centered at 300.50 meters, associated with shear.					
	301.00 to 302.30	Trace pyrite, strong foliation at 55° to the C.A., 1% white quartz veins parallel to foliation.					
	302.30 to 305.05	Less deformed, no pyrite, 1% quartz ankerite veinlets.					
	305.05 to 309.68	Strongly to locally intensely deformed and sericitic. Trace to 1% very fine disseminated pyrite throughout section. Foliation is strong and consistent at 55° to the C.A.					
	305.05 to 306.63	Moderately sericitic trace disseminated pyrite.					
	306.63 to 308.15	As above, 10% grey to white foliation parallel quartz veining, 20 cm of fault gouge at 307.50 meters. Trace pyrite.					
	308.15 to 309.68	As above, moderate sericite.					
	309.68 to 315.00	Quartz sericite schist. Well banded unit consisting of alternating quartz and sericite layers with 1% very finely disseminated pyrite throughout section. Local minor fault gouge and an average of 5% late white quartz veins.					
	309.68 to 310.50	Indistinct banding at top of section becoming more distinct towards lower contact. 1% very fine disseminated pyrite.					
	310.50 to 311.50	Well banded quartz sericite schist. 0.5% very fine disseminated pyrite, occasional cube also present. 2% white quartz veining, as narrow (1-4 cm) foliation parallel veins.					
	311.50 to 312.50	As above, darker grey-green sections contain most of the fine disseminated pyrite.					
	312.50 to 313.00	Quartz sericite schist, becoming more sericitic towards the lower					

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FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
		contact. 5% late foliation parallel white quartz veining. Trace pyrite overall.					
	313.00 to 314.00	Strongly foliated to locally sheared over a few centimeters. Intensely sericitized. 2 cm of unconsolidated fault gouge at 313.90 meters. 10% foliation parallel white quartz ankerite veins.					
	314.00 to 315.00	25% quartz ankerite veining, mainly grey to white. Trace pyrite, very sericitic. 20 cm quartz vein at lower contact, with 1 cm of unconsolidated fault gouge at upper contact.					
	315.00 to 321.00	Moderately sericitic, massive to weakly foliated felsic flows and minor fine grained bedded tuffs. 1% dark grey quartz ankerite veining, trace pyrite.					
	321.00 to 321.88	Zone of strong silicification and quartz veining. 2 cm fault gouge at 321.03 m marks the start of very sericitic and deformed wallrock to the zone of veining/silicification. The silicified sections are 10-25 cm wide, medium to dark grey, very hard and silica crackle fractured. Veining is white and appears late, crosscutting the silicified zones. Trace pyrite.					
	321.00 to 321.88	Trace pyrite, silicified, 2% white quartz veins.					
	321.88 to 324.93	Massive to weakly foliated at 55° to the C.A., moderately sericitic felsic flows and related tuffs.					
	322.78 to 323.35	Contains a 10 cm grey quartz vein with sericitic wallrock. Minor fault gouge at upper contact of vein.					
	324.93 to 327.17	50% grey quartz ankerite veining with numerous sericitic slips and wallrock. Trace pyrite, sharp contacts to unit with overlying and underlying sericitic units.					
	324.93 to 325.80	50% quartz veining, trace pyrite.					

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FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
	325.80 to 327.17	30% dark grey quartz ankerite veining, 1% pyrite in narrow dark grey green discontinuous bands parallel to foliation.					
	327.17 to 331.30	Moderately sericitic felsic volcanic flows and related bedded tuffs. Local pyritic lenses and discontinuous bands. Pyrite hosted by a grey quartz sericite gangue.					
	327.17 to 327.98	Moderately sericitic - wisps form a strong foliation at 55° to the C.A. 20% grey quartz ankerite stringers parallel to foliation.					
	327.98 to 329.45	Strongly sericitic - more pervasive than previous section. Minor quartz veining only.					
	329.45 to 330.30	Becoming strongly sericitic towards the lower contact. 1% pyrite as discontinuous bands with grey quartz and fine-grained sericite.					
	330.30 to 331.30	Lithological contact at 330.30 meters. Rock is finely bedded felsic tuff - bedding is at 70° to the C.A. Grains vary in size from 1-5 mm and are composed of quartz and feldspar. Finer grained material between these beds is sericitic - may be originally mudstone or very fine ash tuff.					
	331.30 to 332.95	Intensely silicified zone. Upper contact is sharp at 70° to the C.A. and is marked by 1 cm of unconsolidated fault gouge. Two sections of silicification are present: from 331.30-331.85 meters and from 332.30-332.95 meters. The rock between these two units is strongly deformed and sericitic and is marked by a 1 cm fault at the upper and lower contact (ie, at 331.85 and 332.30 meters). Silicified sections do not contain any sulfides.					
	331.30 to 331.85	Strongly silicified; sharp upper and lower contacts, no pyrite.					
	331.85 to 332.30	Strongly sericitic and foliated at 60° to the C.A. Nil pyrite.					
	332.30 to 332.95	Strongly silicified as per 331.30-331.85 meters.					

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FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
332.95	364.35	FELSIC LAPILLI TUFF AND MINOR BEDDED TUFF	20224	338.55	339.50	0.95	0
			20225	339.50	340.50	1.00	0
		A sericitic fine grained matrix supports this heterolithic lapilli tuff. Fragment size varies from a few mm to 2-3 cm in the short dimension (right angles to CA). Fragments are an approximately equal mixture of aphanitic to quartz eye rhyolite and fine-grained dacite. The matrix was probably originally an ash or mudstone. Narrow (1-5 cm) finer grained tuff units are interspersed within the lapilli tuff. A moderate foliation is produced by parallel alignment of sericitic wisps and stringers and is oriented at an average of 70° to the C.A. Unit becomes pyritic below 338.55 meters. Pyrite occurs as wisps and masses with grey quartz and sericite. These are usually oriented parallel to foliation. A minor amount of pyrite is also found in irregular dark grey quartz ankerite stringers. The pyritic masses are small - less than 1 cm in long dimension - the occasional mass may be 1-3 cm wide, interspersed with grey quartz and sericite.	20226	340.50	341.50	1.00	0
			20227	341.50	342.50	1.00	0
			20228	342.50	343.50	1.00	0
			20229	343.50	344.50	1.00	0
			20230	344.50	345.50	1.00	0
			20231	345.50	346.50	1.00	0
			20232	346.50	347.50	1.00	0
			20233	347.50	348.50	1.00	0
			20234	348.50	349.50	1.00	0
			20235	349.50	350.50	1.00	10
			20236	350.50	351.50	1.00	10
			20237	351.50	352.50	1.00	0
			20238	352.50	353.50	1.00	0
			20239	353.50	354.50	1.00	0
			20240	354.50	355.50	1.00	14
			20241	355.50	356.50	1.00	14
			20242	356.50	357.50	1.00	0
			20243	357.50	358.50	1.00	0
			20244	358.50	359.50	1.00	0
			20245	359.50	360.50	1.00	0
			20246	360.50	361.50	1.00	0
			20247	361.50	362.50	1.00	10
		338.55 to 339.50 1% very fine disseminated pyrite, rare quartz-sericite-pyrite mass or bleb, moderately sericitic in bands; these are oriented at 50° to the C.A.	20248	362.50	363.85	1.35	0
			20249	363.85	364.35	0.50	0
		339.50 to 340.50 2% pyrite in masses up to 3 cm wide; moderately sericitic.					
		340.50 to 341.50 Moderately sericitic, foliated at 55° to the C.A., trace disseminated pyrite.					
		341.50 to 342.5 Moderately to strongly sericitic, thin sericite-quartz-pyrite seams, << 5 mm wide, 5% white quartz veinlets, 1-2 cm wide, parallel to foliation. 5 cm of fault gouge at 341.70 meters, sericitic margins to the fault zone.					
		342.50 to 343.50 3% quartz-sericite-pyrite seams, stringers parallel to the C.A., minor irregular stringers at various angles to the C.A. The individual seams/stringers contain 30-50% very fine disseminated pyrite.					

TOTAL ENERGOLD CORPORATION

HOLE NO: 242-05A

Page No: 27 of 29

FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
	343.50 to 344.50	1% grey quartz sericite pyrite bands and seams, up to 0.5 cm wide. 50% pyrite in bands. Oriented parallel to foliation, at 70° to the C.A.					
	344.50 to 345.50	1% quartz sericite pyrite seams and lenses, oriented parallel to foliation. Moderately sericitic groundmass to lapilli tuff.					
	345.50 to 346.50	0.5% quartz sericite pyrite lenses and discontinuous seams. slightly more sericitic than previous sections. 3% white narrow quartz ankerite veinlets parallel to foliation.					
	346.50 to 347.50	1% quartz sericite pyrite seams. Grey section, more siliceous, 20% light grey quartz ankerite veining.					
	347.50 to 348.50	More sericitic, quartz sericite pyrite seams becoming narrow and irregular.					
	348.50 to 349.50	0.5 thin irregular quartz sericite pyrite seams, moderate foliation oriented at 65° to the C.A.					
	349.50 to 350.50	0.5% quartz-sericite-pyrite bands (Q-S-P) and discontinuous lenses.					
	350.50 to 351.50	1-2% Q-S-P bands, masses and lenses oriented parallel to CA. Pyrite content is uniform at 50-60%, very finely disseminated.					
	351.50 to 352.50	1-2% Q-S-P bands and masses containing 50% pyrite.					
	352.50 to 353.50	2% Q-S-P bands and masses with 50% very fine disseminated pyrite. These masses appear to intrude and brecciated the lapilli tuff matrix and fragments.					
	353.50 to 354.50	First 20 cm has 10% Q-S-P bands and discontinuous lenses, remainder of section is uniformly sericitic - light grey green trace pyrite, foliation at 50° to the C.A.					
	355.50 to 363.85	Increase in quartz-sericite-pyrite bands to an average of 10% of the rock. Pyrite content of these masses remains at 40-					

TOTAL ENERGO GOLD CORPORATION

HOLE NO: 242-05A

Page No: 28 of 29

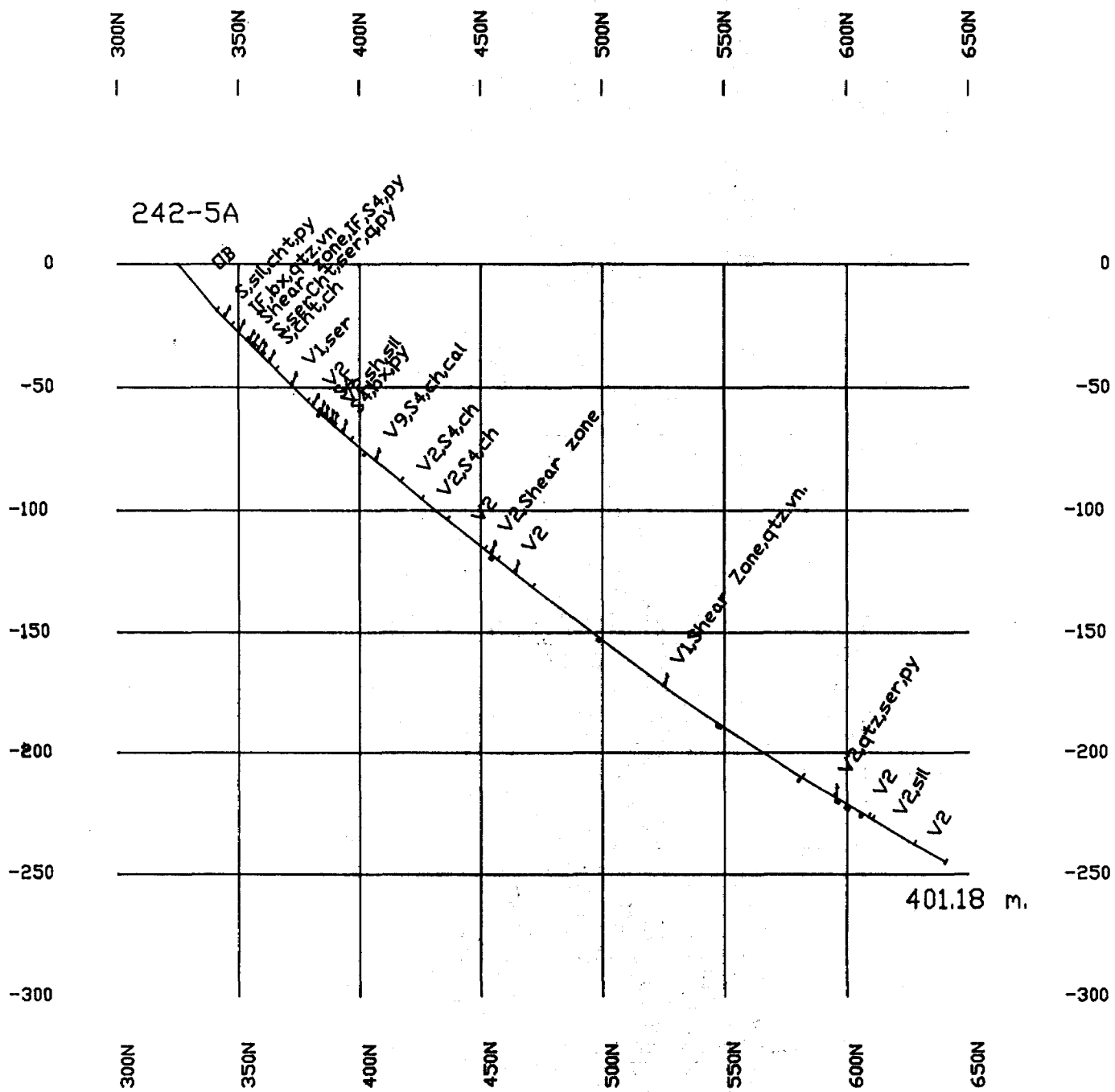
FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
		60%. Some sections are 40 cm wide, with 80% Q-S-P masses. Pyrite is very fine grained and gives the core a grey dusty appearance.					
	355.50-356.50	5% Q-S-P bands, masses and discontinuous lenses oriented parallel to sericitic wisps forming a strong foliation at 60° to the C.A.					
	356.50 to 357.50	3% Q-S-P seams and discontinuous masses. Moderately sericitic, foliation at 55° to the C.A.					
	357.50 to 358.50	20% Q-S-P bands, masses and discontinuous seams containing 50% pyrite. Maximum width is 20 cm - grey dusty appearance. 5% light grey quartz ankerite veinlets parallel to foliation.					
	358.50 to 359.50	20% Q-S-P bands, discontinuous, also 2-3% disseminated pyrite external to bands in quartz sericite schist.					
	359.50 to 360.50	3-5% Q-S-P bands, lenses. Strong foliation formed by parallel alignment of sericite wisps at 45° to the C.A.					
	360.50 to 361.50	Last 50 cm of sample contains 40% Q-S-P bands, masses and discontinuous lenses oriented parallel to foliation, at 50° to the C.A. Moderately sericitic. Q-S-P masses dusty grey in appearance.					
	361.50 to 362.50	40% Q-S-P bands and masses.					
	362.50 to 363.85	5-7% Q-S-P masses and bands. Last 30 cm strongly sericitic and sheared at 65° to the C.A.					
	363.85 to 364.35	Sharp change to weakly sericitic, well foliated tuff. Medium grey, 2% white quartz veinlets. Trace pyrite.					
	363.85 to 364.35	Trace pyrite, 2% Quartz veinlets.					
364.35	366.37	FELSIC QUARTZ CRYSTAL TUFF Massive to weakly locally foliated, very weakly sericitic. Grey, siliceous. Sharp upper contact at 364.35 meters. Trace pyrite.	20250	365.70	366.37	0.67	0

TOTAL ENERGO GOLD CORPORATION

HOLE NO: 242-05A

Page No: 29 of 29

FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
		365.70 to 366.37 10% quartz veining, minor sericitic wallrock. Marking lower contact of crystal tuff with massive rhyolite.					
366.37	386.30	MASSIVE QUARTZ EYE RHYOLITE TO RHYODACITE FLOWS Massive, grey siliceous flows, 1-5% 1-2 mm grey quartz eyes, occasional rare feldspar crystal in this uniform section. Occasional cube of pyrite. Not altered.	20251	377.90	379.20	1.30	0
		377.90 to 379.20 5% white quartz veining with weakly sericitic wallrock and inclusions. <1% minor quartz-sericite-pyrite masses and lenses.					
386.30	401.18	DACITE Massive, light greyish green. Consists of 20% quartz and 10% feldspar grains set in a fine grained to aphanitic matrix of quartz, feldspar and minor sericite. Hard, nil pyrite, no fracturing. Minor calcite veining. Becoming coarser grained down the hole.					
401.18		END OF HOLE					



LEGEND

VOLCANICS

- V2 Felsic
- V4 Intermediate
- V7 Basalt
- V8 Tuff
- V10 Agglomerate

SEDIMENTS

- S3 Greywacke
- S4 Argillite

INTRUSIVES

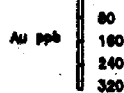
- 1R Felsic
- D6 Diabase

- ob overburden
- ft fault
- bx breccia
- p pillowed
- qv quartz vein

- gf graphite
- ser sericite
- fo fuchsite
- cb carbonised
- al silicified
- sl slightly altered

- py pyrrhotite
- py pyrite
- asp arsenopyrite
- mx magnetite
- Fe iron tholeiite

IP Induced Polarization Anomaly



TOTAL ENERGOLD CORPORATION

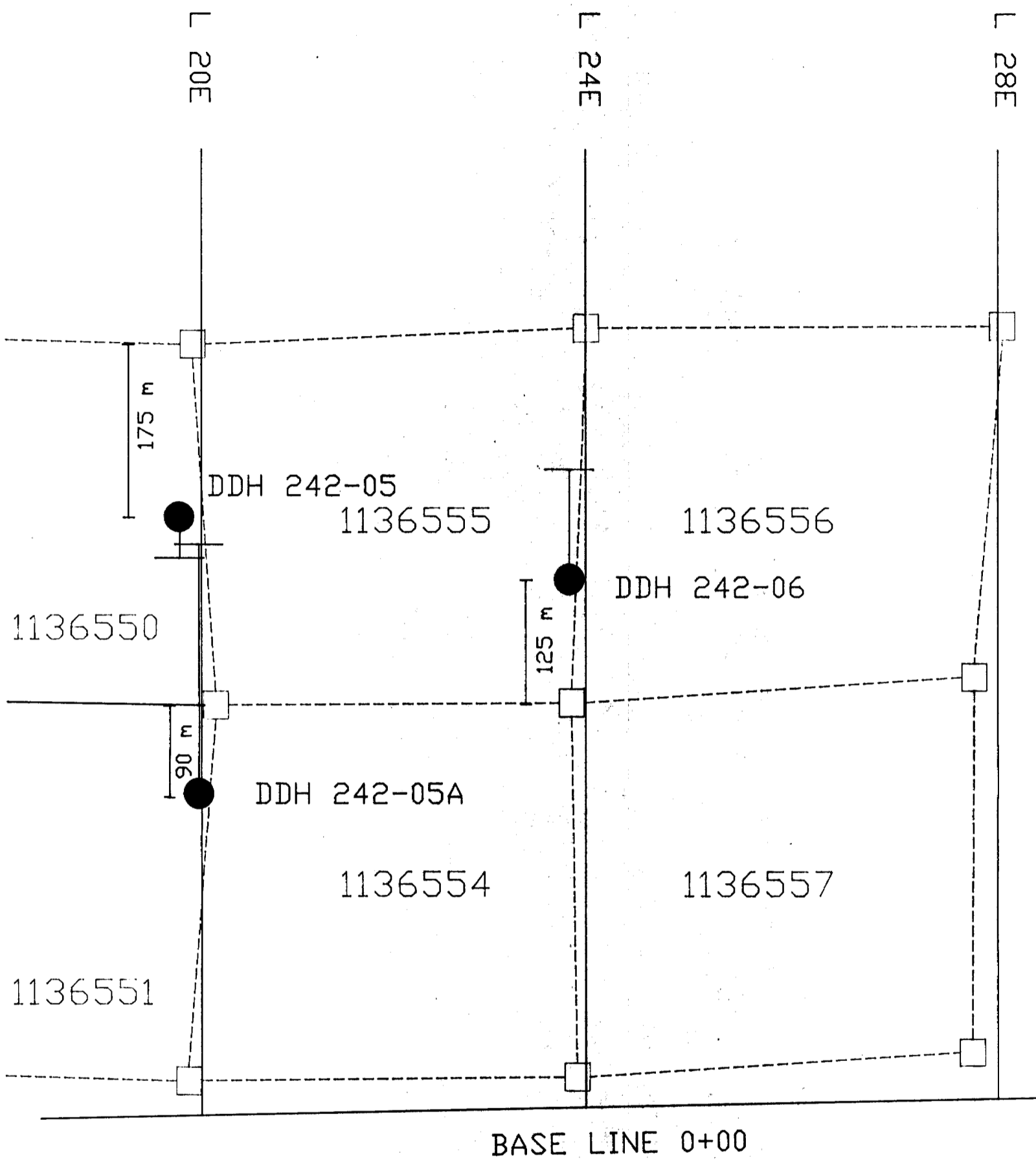
ST. LAURENT

242-5A
Section 20+00 E
Facing West

JMP

Drawn: J.M.P.	Checked: JMP	Scale: 1:2500	Drawing: SL-5A
Date: March, 1991	Revised: March, 1991	Province: Ontario	NTS: 32 E/5





TOTAL ENERGOLD CORPORATION			
ST. LAURENT			
LOCATION MAP			
DDH 242-06			
Drawn: J.M.P.	Checked: JMP	Scale: 1:5000	Drawing: SL6LOC
Date: March, 1991	Revised: March, 1991	Province: Ontario	NTS: 32 E/5

TOTAL ENERGOLD CORPORATION

DIAMOND DRILL RECORD

Co-ords: 525N Section: L2400E HOLE NO: 242-06
Bearing: 360° Core Size: BQ Property: St. Laurent
Dip: -45° Grid System: Location: St. Laurent Twp.
Elevation: Claim: 1136555
Length: 256.36 Date Started: Feb. 23, 1991
Measurement: metres Date Completed: Feb. 25, 1991
Comments: Logged By: Joe MacPherson

J. A. MacPherson

Depth	Azimuth	Dip	Depth	Azimuth	Dip	Depth	Azimuth	Dip
30.49		-42°	182.93		-31°			
121.95		-34°	254.88		-28°			

LOG SUMMARY

FROM	TO	LITHOLOGY
0.00	29.87	OVERBURDEN
29.87	74.98	FELSIC VOLCANIC FLOWS: MASSIVE APHANITIC RHYOLITE
74.98	78.30	PYRITIC INTERFLOW SILICEOUS METASEDIMENTS
78.30	89.77	MASSIVE TO WEAKLY FOLIATED RHYOLITE FLOWS, MINOR TUFFS
89.77	98.66	STRONGLY DEFORMED AND SERICITIZED FELSIC TUFFS: SHEAR ZONE
98.66	102.71	MASSIVE QUARTZ EYE RHYOLITE
102.71	110.88	STRONGLY DEFORMED AND SERICITIC FELSIC TUFFS
110.88	133.77	QUARTZ EYE RHYOLITE
133.77	144.75	SHEAR ZONE: MODERATE QUARTZ SERICITE SCHIST
144.75	169.50	FELSIC VOLCANIC FLOWS: RHYOLITE, QUARTZ EYE RHYOLITE
169.50	256.36	SULPHIDE-BEARING FELSIC VOLCANIC FLOWS
	256.36	END OF HOLE

TOTAL ENERGOLD CORPORATION

HOLE NO: 242-06

Page No: 2 of 5

FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
0.00	29.87	OVERBURDEN Sand, clay, gravel, boulders on bedrock.					
29.87	74.98	FELSIC VOLCANIC FLOWS: MASSIVE APHANTIC RHYOLITE Dark grey, hard, massive and aphanitic, to locally weakly foliated at 50 to 60° to the C.A. Rare weakly sericitic slip. Strong chlorite-filled fracture set, at 60 to 70° to the C.A., opposite to the foliation, at a low angle to the C.A. This translates to a fairly flat fracture set in the rock. Weak set of calcitic fractures at random angles to the C.A. 50.65 to 51.00 Broken rock and minor fault gouge. 71.30 to 74.98 Felsic lapilli tuff. Homolithic. Angular fragments up to 5 cm size set in a chloritic matrix.					
74.98	78.30	PYRITIC INTERFLOW SILICEOUS METASEDIMENT A black, siliceous, weakly bedded sediment hosts up to 60 cm of semi-massive pyrite. Bedding is at 60° to the C.A. Pyrite occurs massive within bands up to 1 cm wide, and also occurs semi-massive within a black siliceous gangue. Weakly chloritic, 1 % late white quartz veining. 74.98 to 75.82 75% pyrite in siliceous gangue. 75.82 to 76.80 Fine-bedded tuff to lapilli tuff. Minor sulphides in matrix of lapilli tuff. 76.80 to 78.30 30% pyrite as masses and hosted by black siliceous gangue.	20724 20725 20726	74.98 75.82 76.80	75.82 76.80 78.30	0.84 0.98 1.50	0 0 0
78.30	89.77	MASSIVE TO WEAKLY FOLIATED RHYOLITE FLOWS, MINOR TUFFS Grey to grey green, weakly pervasively sericitic. Below 87 meters, sericite becomes more prominent in thin slips at 55° to the C.A. 5% black irregular fractures throughout section. Minor pyrite in black siliceous gangue, similar to massive pyrite above.					

TOTAL ENERGOLD CORPORATION

HOLE NO: 242-06

Page No: 3 of 5

FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
89.77	98.66	STRONGLY DEFORMED AND SERICITIZED FELSIC TUFFS: SHEAR ZONE Strongly foliated at 65° to the C.A., locally foliation is deformed to 30° to the C.A. Numerous thin sericitic and chloritic wisps. Minor pyrite locally hosted by a black quartz gangue.	20727	90.60	91.75	1.15	0
		90.60 to 91.75 Strong sericite schist hosting 5% black quartz-pyrite lenses and irregular wisps.					
		After 91.75 meters, the core is very sericitic and takes on a waxy green colour, with 3% irregular black quartz ankerite stringers hosting trace pyrite.					
		96.80 to 97.40 5% pyrite in light grey quartz masses.					
98.66	102.71	MASSIVE QUARTZ EYE RHYOLITE Medium grey, massive. 75% tightly packed quartz crystal in a fine-grained to aphanitic. Occasional chloritic fracture.					
102.71	110.88	STRONGLY DEFORMED AND SERICITIC FELSIC TUFFS As above, locally intense sericite development reflecting strong shearing over 1-5 cm. Core angles vary from 35 to 60° to the C.A. The shearing in this hole is different from that intersected in previous holes - the degree of deformation in the from of slumping of foliation bands to subparallel to the C.A.					
110.88	133.77	QUARTZ EYE RHYOLITE 25% grey quartz eyes set in a fine grained to aphanitic siliceous matrix. Weak foliation at 45° to the C.A. developing towards the lower contact.					
133.77	144.75	SHEAR ZONE: MODERATE QUARTZ SERICITE SCHIST Moderate development of sericite along foliation planes oriented at 55 to 60° to the C.A. Upper and lower contacts marked by quartz veining and fault gouge. Host rock may still be the massive quartz eye rhyolite - a few					

TOTAL ENERGO GOLD CORPORATION

HOLE NO: 242-06

Page No: 4 of 5

FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
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quartz eyes are visible. Outside of the schistose sections, the core is massive, grey and hard.

133.77 to 134.55 Upper contact of shear zone. 40 cm of broken white quartz with numerous chloritic inclusions and slips parallel to vein contacts.

144.25 to 144.75 As above, at lower contact of shear zone. 1-2% pyrite along chloritic slips.

144.75	169.50	FELSIC VOLCANIC FLOWS: RHYOLITE, QUARTZ EYE RHYOLITE Massive, aphanitic rhyolite flows, locally quartz eye bearing, silicified. Very hard, light to medium grey. 1% irregular fracturing, trace disseminated pyrite.					
--------	--------	--	--	--	--	--	--

153.60 to 154.64 Strong shear zone. 60 cm of recemented fault gouge consisting of sericite, quartz fragments and minor chlorite and clay. Trace pyrite, minor white quartz veining.

153.60-154.64 As above.

The felsic flows below the fault zone continue to be massive, with trace pyrite, light to medium grey.

161.17 to 162.33 Intense silica flooding over 20 cm, minor less intense flooding elsewhere in section. Trace pyrite and chalcopyrite in zones of silica flooding.

161.17 to 162.33 As above.

169.50	256.36	SULPHIDE-BEARING FELSIC VOLCANIC FLOWS. Similar to section above, except for the gradual increase in sulphide content to an average of 1%. The sulphides, predominantly pyrite with minor chalcopyrite, are associated with mafic mineral aggregates, mainly chlorite, scattered randomly throughout the core. The rock has a light green tinge due to pervasive but weak sericite alteration.					
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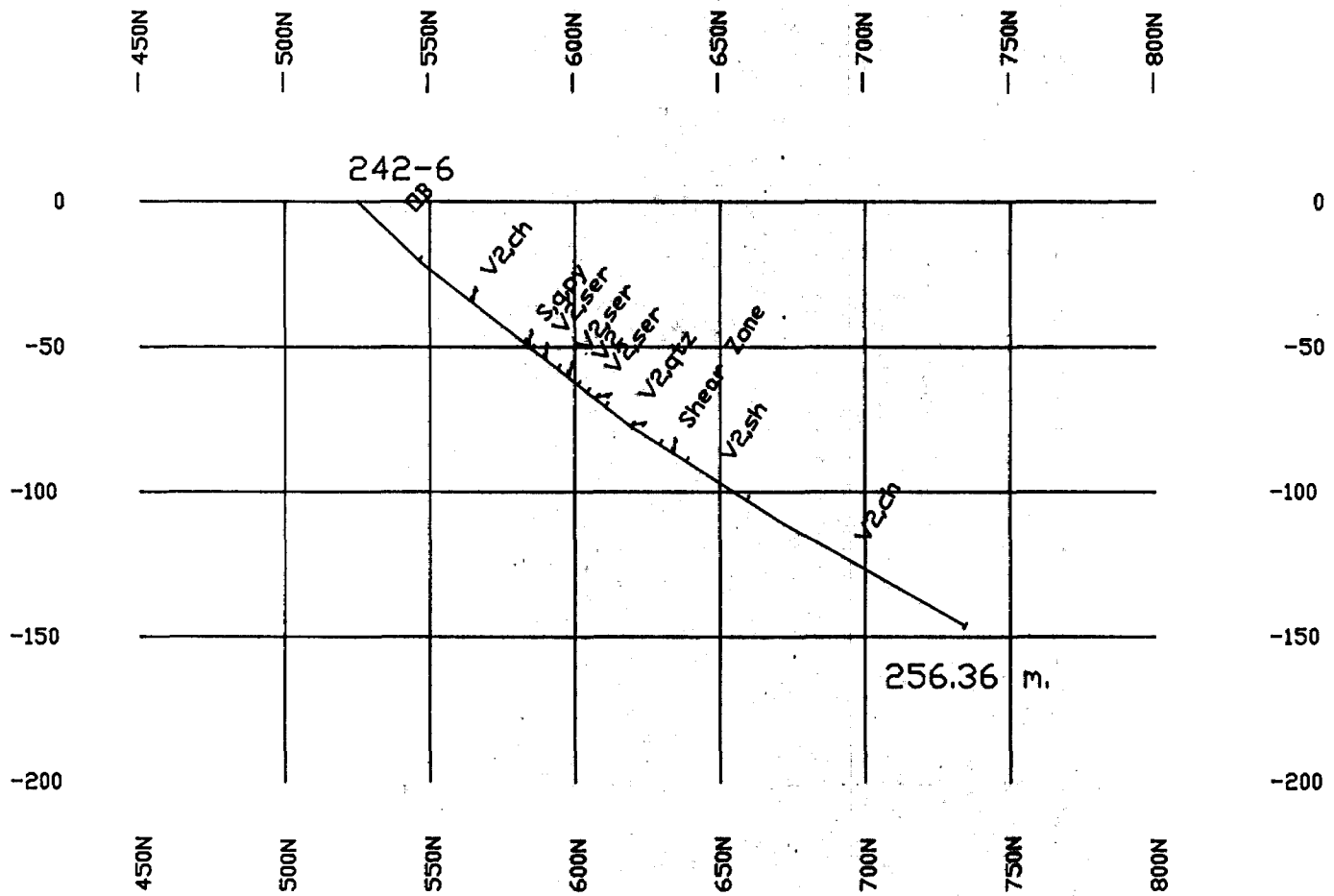
The rock is massive, very siliceous (and hard), light grey with a distinctive light green tinge and a botchy appearance due to these mafic

TOTAL ENER G O L D C O R P O R A T I O N

HOLE NO: 242-06

Page No: 5 of 5

FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
		mineral aggregates. The rock hosts 1% black irregular fractures, which in turn host some pyrite.					
	169.50 to 171.00	1% disseminated pyrite, trace chalcopyrite.					
	171.00 to 172.52	As above.					
	172.52 to 174.02	As above.					
	174.50 to 175.57	As above.					
256.36		END OF HOLE					



LEGEND

VOLCANICS

- V2 Felsic
- V4 Intermediate
- V7 Basalt
- V8 Tuff
- V10 Agglomerate

SEDIMENTS

- S3 Graywacke
- S4 Argillite

INTRUSIVES

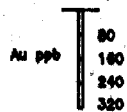
- 1R Felsic
- D6 Diabase

- ob overburden
- ft fault
- bx breccia
- p pillowed
- qv quartz vein

- gf graphite
- ser sericite
- fo fuchsite
- ob carbonaceous
- al aliofied
- sl slightly altered

- py pyrrhotite
- py pyrite
- OPY arsenopyrite
- mt magnetite
- Fe iron trolite

- IP Induced Polarization Anomaly



TOTAL ENERGOLD CORPORATION

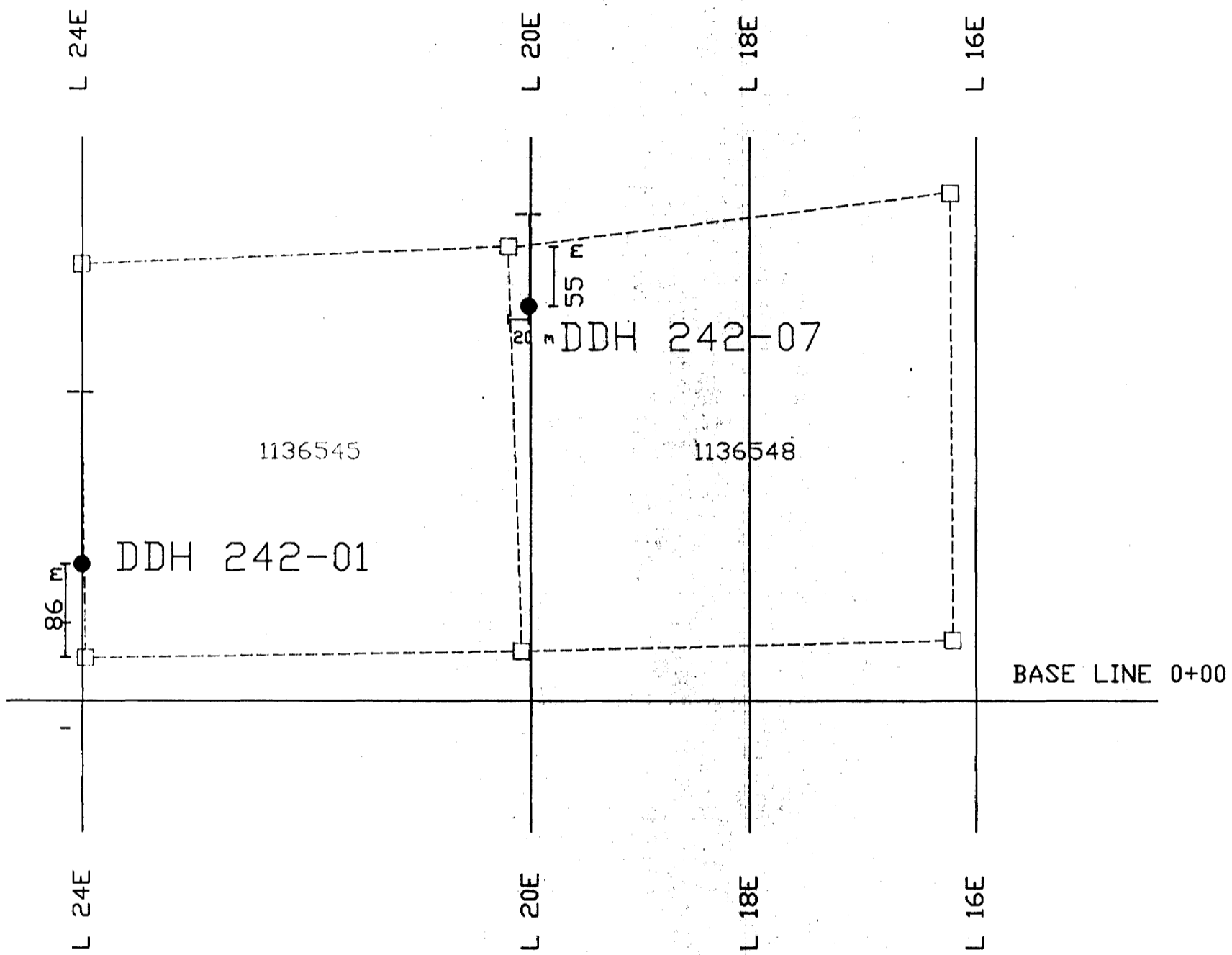
ST. LAURENT

DDH 242-6
Section 24+00 E
Facing West

J.M.P.

Drawn: J.M.P.	Checked: J.M.P.	Scale: 1:2500	Drawing: SL-8
Date: March, 1991	Revised: March, 1991	Province: Ontario	NTS: 32 E/5

0 20 40 60 80 METRES



TOTAL ENERGOLD CORPORATION			
ST. LAURENT			
LOCATION MAP			
DDH 242-07			
Drawn: J.M.P.	Checked: J.M.P.	Scale: 1:5000	Drawing: SL7-LDC
Date: March, 1991	Revised: April, 1991	Province: Ontario	NTS: 32 E/5

TOTAL ENERGOLD CORPORATION

DIAMOND DRILL RECORD

Co-ords: 325N Section: L1200E HOLE NO: 242-07
Bearing: 360° Core Size: BQ Property: St. Laurent
Dip: -45° Grid System: Location: St. Laurent Twp.
Elevation: Claim: 1136548
Length: 143.90 Date Started: Feb. 23, 1991
Measurement: metres Date Completed: Feb. 25, 1991
Comments: *J.A. MacPherson* Logged By: Joe MacPherson

Depth Azimuth Dip Depth Azimuth Dip Depth Azimuth Dip

LOG SUMMARY

FROM	TO	LITHOLOGY
0.00	20.43	OVERBURDEN
20.43	24.20	FELSIC LAPILLI TUFF
24.20	68.30	INTERMEDIATE LAPILLI TUFF, CRYSTAL TUFF
68.30	81.08	QUARTZ VEINED GRAPHITIC SHEAR ZONE
81.08	143.90	MASSIVE, FINE-GRAINED, ALTERED INTERMEDIATE TO MAFIC METAVOLCANIC FLOWS
	143.90	END OF HOLE

TOTAL ENERGY GOLD CORPORATION

HOLE NO: 242-07

Page No: 2 of 4

FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
0.00	20.43	OVERBURDEN Clay, sand, gravel, boulders near bedrock.					
20.43	24.20	FELSIC LAPILLI TUFF Light grey, clast supported, well sorted, with 2 cm subrounded felsic clasts dominating this rock. Clast compositions are massive aphanitic to feldspar phyric, with minor quartz eye rhyolite and sulphide clasts. Matrix is dark grey to black, soft, and unaltered.	20728	23.17	24.20	1.03	0
24.20	68.30	INTERMEDIATE LAPILLI TUFF, CRYSTAL TUFF Weakly to moderately sericitic, clasts are mainly intermediate to felsic volcanic, moderately soft. Upper contact broken and quartz veined from 23.17 to 24.20 meters. Minor interbedded quartz crystal tuff. Clast size varies from a few mm to >5 cm, and are generally subrounded. A few sulphide clasts present, notably at 37.00 meters. Pyrite occurs in narrow sections with dusty grey quartz in wispy stringers parallel to foliation formed by sericite, at 55° to the C.A.	20729 20730	29.00 36.83	29.80 37.56	0.80 0.73	0 0
		23.17 to 24.20 Broken and quartz veined contact between felsic and intermediate crystal tuff.					
		29.00 to 29.80 Mainly quartz crystal tuff, thinly bedded, strongly foliated at 55° to the C.A., 3-5% pyrite as clasts and in wispy dusty grey quartz stringers.					
		36.83 to 37.56 Large sulphide clast at 37.00 meters, partially altered to limonite.					
		Below 38 meters, the matrix to the tuff is locally argillaceous. 5% felsic clasts, 1% sulphide clasts. Unit grades downhole from interbedded lapilli and bedded tuff to predominantly thinly bedded, finer grained tuff with up to 15% coarse (> 2 cm) felsic to intermediate clasts. Weak pervasive sericite to 44.50 meters, patchy sericite sections below this point. Unit becomes strongly foliated at 55° to the C.A. after 66 meters.					

TOTAL ENERGO GOLD CORPORATION

HOLE NO: 242-07

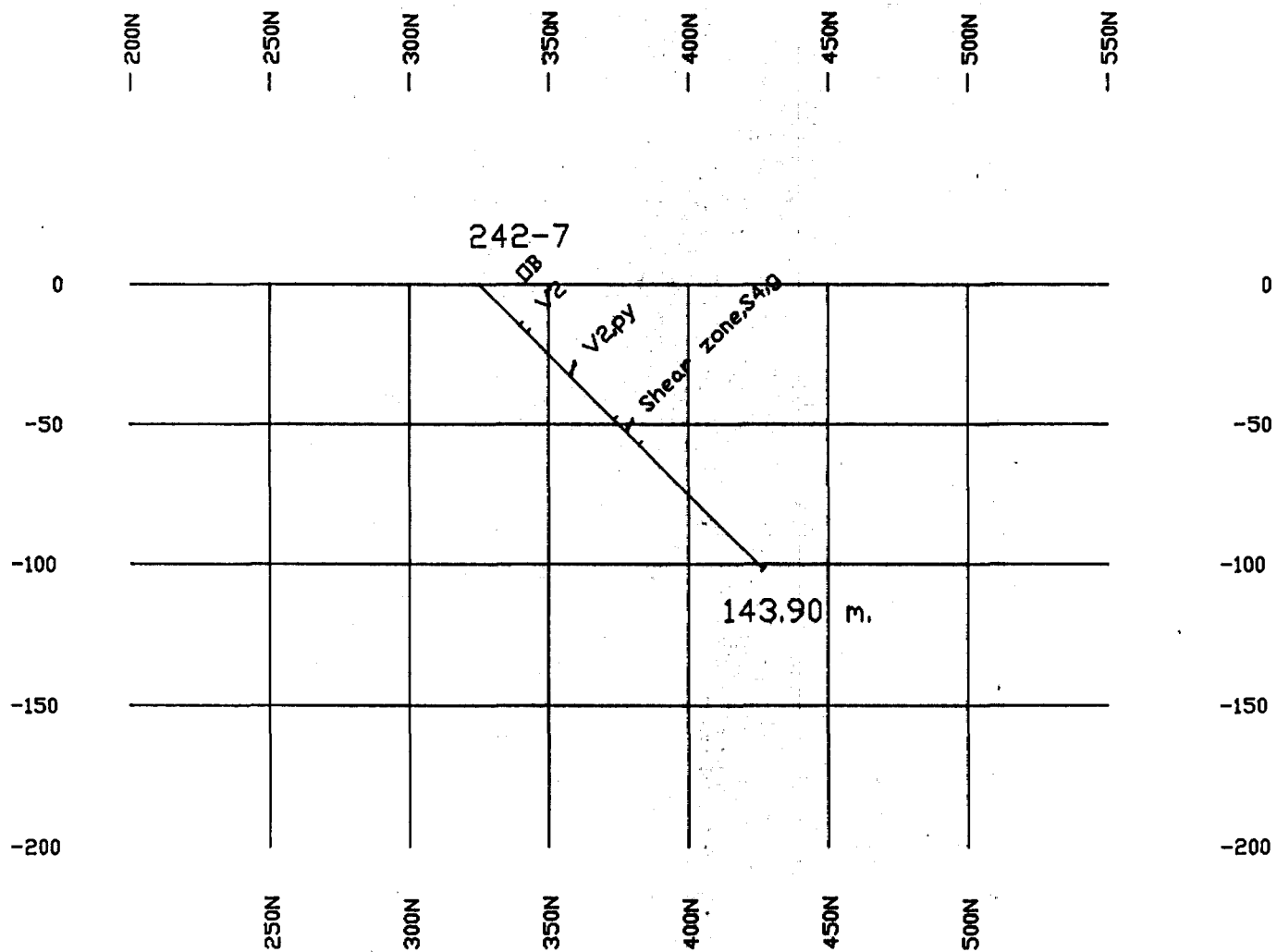
Page No: 3 of 4

FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
68.30	81.08	QUARTZ VEINED GRAPHITIC SHEAR ZONE	20731	68.30	68.90	0.60	0
			20732	68.90	69.50	0.60	0
		Sharp upper contact with 50 cm of graphitic fault gouge. Host rock to the shear zone is a finely bedded tuff or argillite. Foliation is strong and locally deformed, from an average of 55° to the C.A. to less than 10° to the C.A. Minor sericite present throughout as irregular wisps and masses, becoming more prominent near vein margins. White quartz veins make up 60% of the rock by volume. Contacts are irregular and broken. Graphitic slips and sulphide-rich wallrock inclusions common. The latter are hematitic locally.	20733	69.50	71.06	1.56	0
			20734	71.06	72.30	1.24	0
			20735	72.30	73.35	1.05	0
			20736	73.35	74.98	1.63	0
			20737	74.98	76.60	1.62	0
			20738	76.60	78.03	1.43	0
			20739	78.03	79.40	1.37	0
			20740	79.40	80.37	0.97	0
			20741	80.37	81.08	0.71	0
		68.30 to 68.90 Graphitic fault gouge, unconsolidated.					
		68.30 to 68.90 As above.					
		68.90 to 76.60 15% white quartz veining with graphitic slips and graphite-pyrite wallrock inclusions. Foliation strong and slumped locally parallel to the C.A. 1% pyrite overall.					
		68.90 to 69.50 20% white quartz veining, as several 5-8 cm veinlets at 80° to the C.A. Trace pyrite. Minor fault gouge associated with vein.					
		69.50 to 71.06 5% white quartz veining, strongly deformed foliation.					
		71.06 to 72.30 1% white quartz veining, trace pyrite.					
		72.30 to 73.35 20% white quartz veining, intruding subparallel to C.A. Numerous pyrite-graphite seams within veins and along vein margins. 2-3% pyrite overall.					
		73.35 to 74.98 Strong foliation at 65° to the C.A. 10% white quartz veining. 3% sulphide, locally semi-massive over 1-2 cm.					
		74.98 to 76.60 15% white irregular quartz veining, largest vein 10 cm, at 80° to C.A. Trace pyrite in weakly sericitic wallrock.					
		76.60 to 80.37 Main vein zone. 80% white					

TOTAL ENERGO GOLD CORPORATION

HOLE NO: 242-07
Page No: 4 of 4

FROM	TO	DESCRIPTION	SAMPLE #	FROM	TO	LENGTH	Au (ppb)
		quartz veining with numerous irregular graphite and graphite-pyrite wisps and inclusions. Local semi-massive pyrite masses within veins are partially hematitic.					
		76.60 to 78.03 70% white quartz veining. Pyrite wallrock and inclusions. 2% pyrite overall.					
		78.03 to 79.40 100% white quartz veining, with 10% pyrite-graphite masses and wisps.					
		79.40 to 80.37 90% white quartz veining with strong graphitic slips at 35° to the C.A. Strongly pyritic wallrock to lower contact.					
		80.37 to 81.08 20% low-angle quartz veining, with pyritic wallrock margins.					
		80.37 to 81.08 As above.					
81.08	143.90	MASSIVE, FINE-GRAINED, ALTERED INTERMEDIATE TO MAFIC METAVOLCANIC FLOWS Medium grey with a light green tinge, moderately soft, patchy sericite, 5% dark grey irregular crackle fracture, locally broken and quartz veined (5%). Trace disseminated cubic pyrite. 5-10 cm sections of flow-top breccia, variably sericitized and hosted by a black siliceous gangue.	20742	82.08	83.43	1.35	0
		82.08 to 83.43 15% white quartz veining. Section contains a 5 cm pyritic flow top in a black quartz gangue.					
143.90		END OF HOLE					



LEGEND

VOLCANICS

- V2 Felsic
- V4 Intermediate
- V7 Basalt
- V9 Tuff
- V10 Agglomerate

SEDIMENTS

- S3 Greywacke
- S4 Argillite

INTRUSIVES

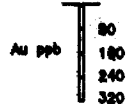
- IR Felsic
- Db Diabase

- ob overburden
- fk fault
- bx breccia
- p pillowed
- qv quartz vein

- gf graphite
- ser sericite
- fo fuchsite
- ob carbonized
- sl silified
- sl slightly altered
- alt altered

- py pyrrhotite
- py pyrite
- epg arsenopyrite
- mt magnetite
- Fe iron chalcite

IP Induced Polarization Anomaly



TOTAL ENERGOLD CORPORATION

ST. LAURENT

DDH 242-7
Section 12+00 E
Facing West

JMP

Drawn: J.M.P.	Checked: JMP	Scale: 1:2500	Drawing: SL-7
Date: March, 1991	Revised: March, 1991	Province: Ontario	NTS: 32 E/5

0 20 40 60 80 METRES

APPENDIX 2



Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Established 1928

Page 3 of 4

Geochemical Analysis Certificate

1W-2344-RG1 ✓

Company: **TOTAL ENERGOLD**
Project: **ST. LAURENT**
Attn: **J. MACPHERSON**

Date: **FEB-21-91**
Copy 1. P.O. BOX 1720, SOUTH PORCUPINE, ONT
2. FAX TO 235-2257

We hereby certify the following Geochemical Analysis of 116 CORE samples submitted FEB-18-91 by J. MACPHERSON.

Sample Number	Au ppb	Cu ppm	Zn ppm
20139 ✓	Nil		
20140 ✓	Nil		
20141 ✓	Nil		
20142 ✓	Nil		
20143 ✓	7/7		
20144 ✓	Nil		
20145 ✓	Nil		
20146 ✓	Nil		
20147 ✓	Nil		
20148 ✓	Nil		
20149 ✓	Nil		
20150 ✓	Nil		
20151 ✓	Nil		
20152 ✓	Nil		
20153 ✓	Nil		
20154 ✓	Nil		
20155 ✓	Nil		
20156 ✓	Nil		
20157 ✓	10		
20158 ✓	10/14		
20159 ✓	Nil		
20160 ✓	Nil		
20161 ✓	Nil		
20162 ✓	Nil		
20163 ✓	Nil		
20164 ✓	Nil		
20165 ✓	Nil		
20166 ✓	Nil		
20167 ✓	7/10		
20168 ✓	Nil		

Certified by Donna Gardner



Established 1928

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Page 4 of 4

Geochemical Analysis Certificate

1W-2344-RG1

Company: **TOTAL ENERGOLD**
Project: **ST. LAURENT**
Attn: **J. MACPHERSON**

Date: **FEB-21-91**
Copy 1. P.O. BOX 1720, SOUTH PORCUPINE, ONT
2. FAX TO 235-2257

We hereby certify the following Geochemical Analysis of 116 CORE samples submitted FEB-18-91 by J. MACPHERSON.

Sample Number	Au ppb	Cu ppm	Zn ppm
20169 ✓	Nil		
20170 ✓	Nil		
20171 ✓	Nil		
20172 ✓	Nil		
20173 ✓	Nil		
20174 ✓	Nil		
20175 not rec'd			
20176 ✓	Nil		
20177 ✓	Nil		
20178 ✓	Nil		
20179 ✓	Nil		
20180 ✓	Nil		
20181 ✓	Nil		
20182 ✓	Nil		
20601 ✓	Nil	9	62
20602 ✓	Nil	9	85
20603 ✓	Nil	30	56
20604 ✓	Nil	49	74
20605 ✓	7/10	19	70
20606 ✓	Nil	26	68
20607 ✓	Nil	25	85
20608 ✓	Nil	31	80
20609 ✓	Nil	27	79
20610 ✓	Nil	39	90
20611 ✓	10/10	28	79
20612 ✓	Nil	29	81
20613 ✓	Nil	27	63

Certified by Donna Gardner



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Geochemical Analysis Certificate

1W-2430-RG1 ✓

Company: **TOTAL ENERGOLD CORP.**

Date: **MAR-01-91**

Project: *242*
Attn:

Copy 1. P.O. BOX 1720 S. PORCUPINE ONT.

We hereby certify the following Geochemical Analysis of 7 CORE samples submitted FEB-27-91 by .

Sample Number	Au ppb	As ppm
20721 ✓	Nil	
20722 ✓	Nil	
20723 ✓	Nil	
20724 ✓	Nil	
20725 ✓	Nil	
20726 ✓	Nil	
20727 ✓	Nil	

Certified by *Donna Gardner*



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Assaying - Consulting - Representation

Geochemical Analysis Certificate

1W-2430-RG1 ✓

Company: **TOTAL ENERGOLD CORP.**

Date: **MAR-13-91**

Project:

Copy 1. P.O. BOX 1720 S. PORCUPINE ONT.

Attn:

We hereby certify the following Geochemical Analysis of 7 CORE samples submitted FEB-27-91 by .

Sample Number	Au ppb	As ppm
20721 ✓	Nil	10
20722 ✓	Nil	19
20723 ✓	Nil	11
20724 ✓	Nil	60
20725 ✓	Nil	12
20726 ✓	Nil	26
20727 ✓	Nil	13

Certified by

Donna Lewis

P.O. Box 10, Swastika, Ontario P0K 1T0

Telephone (705) 642-3244.

FAX (705) 642-3300



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Page 1 of 2

1W-2478-RG1 ✓

Geochemical Analysis Certificate

Company: **TOTAL ENERGOLD CORP.**

Date: **MAR-14-91**

Project: **242**

Copy 1. P.O. BOX 1720, SOUTH PORCUPINE, ONT. P0N1H0

Attn: **JOE MACPHERSON**

2. FAX TO 235-2257

We hereby certify the following Geochemical Analysis of 51 ROCK samples submitted MAR-11-91 by JOE MACPHERSON.

Sample Number	Au ppb	As ppm
20235 ✓	10	
20236 ✓	10	
20237 ✓	Nil	
20238 ✓	Nil	
20239 ✓	Nil	
20240 ✓	14	
20241 ✓	14/17	
20259 ✓	Nil	
20260 ✓	Nil	
20261 ✓	7	
20262 ✓	Nil	
20263 ✓	Nil	
20264 ✓	Nil	
20265 ✓	Nil	
20266 ✓	Nil	
20267 ✓	Nil	
20268 ✓	Nil	
20269 ✓	14/14	
20270 ✓	Nil	
20271 ✓	Nil	
20272 ✓	Nil	
20273 ✓	Nil	
20274 ✓	Nil	
20275 ✓	Nil	
20276 ✓	Nil / Nil	
20277 ✓	Nil	
20278 ✓	Nil	
20279 ✓	Nil	
20280 ✓	Nil	
20281 ✓	Nil	

Certified by Donna Gardner

P.O. Box 10, Swastika, Ontario P0K 1T0

Telephone (705) 642-3244

FAX (705) 642-3300



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Page 1 of 2

Geochemical Analysis Certificate

1W-2406-RG1 ✓

Company: **TOTAL ENERGOLD**
Project: **242**
Attn: **MR. J. MACPHERSON**

Date: **MAR-13-91**
Copy 1. 68 BRUCE AVE., SOUTH PORCUPINE, ONT
2. FAX TO 235-2257

We hereby certify the following Geochemical Analysis of 53 CORE samples submitted FEB-22-91 by J. MACPHERSON.

Sample Number	Au ppb	As ppm	Cu ppm	Zn ppm
20614 ✓	Nil / 7		25	46
20615 ✓	7		60	58
20616 ✓	10		31	62
20617 ✓	Nil		26	59
20618 ✓	Nil		39	68
20619 ✓	10		23	67
20620 ✓	7		30	66
20621 ✓	Nil		19	57
20622 ✓	Nil		61	92
20623 ✓	17	40	9	45
20624 ✓	Nil	22	6	26
20625 ✓	Nil	19	5	19
20626 ✓	Nil	4	8	33
20627 ✓	Nil	2	7	30
20628 ✓	Nil	2	8	27
20629 ✓	Nil / Nil	2	11	25
20630 ✓	Nil	14	5	25
20631 ✓	Nil	9	8	27
20632 ✓	Nil	23	9	40
20633 ✓	Nil	23	6	35
20634 ✓	Nil	36	71	34
20635 ✓	Nil	20	62	67
20636 ✓	10	19	29	31
20637 ✓	7	35	144	111
20638 ✓	17	20	74	137
20639 ✓	Nil	29	135	125
20640 ✓	14 / 10	40	164	26
20641 ✓	10	9	75	25
20642 ✓	14	20	101	27
20643 ✓	Nil	17	126	22

Certified by Donna Gardner



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Page 1 of 3

Geochemical Analysis Certificate

1W-2451-RG1 ✓

Company: **TOTAL ENERGOLD CORP.**

Date: **MAR-08-91**

Project: **242**

Copy 1. P.O.BOX 1720,SOUTH PORCUPINE,ONT P0N1H0

Attn: **JOE MACPHERSON**

We hereby certify the following Geochemical Analysis of 62 ROCK samples submitted MAR-06-91 by JOE MACPHERSON.

Sample Number	Au ppb	As ppm
20183	Nil	
20184	Nil	
20185	Nil/Nil	
20186	Nil	
20187	Nil	
20188	Nil	
20189	Nil	
20190	Nil	
20191	Nil	
20192	Nil	
20193	7	
20194	7	
20195	Nil	
20196	Nil	
20197	Nil	
20198	Nil	
20199	Nil	
20200	Nil/Nil	
20201	Nil	
20202	Nil	
20203	Nil	
20204	Nil	
20205	Nil	
20206	Nil	
20207	Nil	
20208	Nil	
20209	Nil	
20210	Nil	
20211	Nil/Nil	
20212	Nil	

Certified by Donna Gardner

P.O. Box 10, Swastika, Ontario P0K 1T0

Telephone (705) 642-3244

FAX (705) 642-3300



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Page 2 of 3

1W-2451-RG1

Geochemical Analysis Certificate

Company: **TOTAL ENERGOLD CORP.**

Project: **242**

Attn: **JOE MACPHERSON**

Date: **MAR-08-91**

Copy 1. P.O.BOX 1720,SOUTH PORCUPINE,ONT P0N1H0

We hereby certify the following Geochemical Analysis of 62 ROCK samples submitted MAR-06-91 by JOE MACPHERSON.

Sample Number	Au ppb	As ppm
20213 ✓	Nil	
20214 ✓	Nil	
20215 ✓	Nil	
20216 ✓	Nil	
20217 ✓	Nil	
20218 ✓	Nil	
20219 ✓	Nil	
20220 ✓	Nil	
20221 ✓	Nil	
20222 ✓	Nil	
20223 ✓	17/7	
20224 ✓	Nil	
20225 ✓	Nil	
20226 ✓	Nil	
20227 ✓	Nil	
20228 ✓	Nil	
20229 ✓	Nil	
20230 ✓	Nil	
20231 ✓	Nil	
20232 ✓	Nil	
20233 ✓	Nil	
20234 ✓	Nil	
20242 ✓	Nil	
20243 ✓	Nil	
20244 ✓	Nil	
20245 ✓	Nil	
20246 ✓	Nil	
20247 ✓	10/21	
20248 ✓	Nil	
20249 ✓	Nil	

Certified by Donna Gardner

P.O. Box 10, Swastika, Ontario P0K 1T0

Telephone (705) 642-3244

FAX (705) 642-3300



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Page 3 of 3

Geochemical Analysis Certificate

1W-2451-RG1 ✓

Company: **TOTAL ENERGOLD CORP.**
Project: **242**
Attn: **JOE MACPHERSON**

Date: **MAR-08-91**
Copy 1. P.O. BOX 1720, SOUTH PORCUPINE, ONT P0N1H0

We hereby certify the following Geochemical Analysis of 62 ROCK samples submitted MAR-06-91 by JOE MACPHERSON.

Sample Number	Au ppb	As ppm
20250 //	Nil	
20251 //	Nil	

Certified by L. Sonna Gervin



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Page 1 of 4

Geochemical Analysis Certificate

1W-2344-RG1 ✓

Company: **TOTAL ENERGOld**
Project: **ST. LAURENT**
Attn: **J. MACPHERSON**

Date: **FEB-21-91**
Copy 1. P.O.BOX 1720, SOUTH PORCUPINE, ONT
2. FAX TO 235-2257

We hereby certify the following Geochemical Analysis of 116 CORE samples submitted FEB-18-91 by J. MACPHERSON.

Sample Number	Au ppb	Cu ppm	Zn ppm
20078 ✓	Nil		
20079 ✓	Nil		
20080 ✓	Nil		
20081 ✓	Nil		
20082 ✓	Nil		
20083 ✓	10		
20084 ✓	Nil		
20085 ✓	7/14		
20086 ✓	Nil		
20087 ✓	Nil		
20088 ✓	Nil		
20089 ✓	Nil		
20090 ✓	Nil		
20091 ✓	Nil		
20092 ✓	Nil		
20093 ✓	Nil		
20094 ✓	Nil		
20095 ✓	Nil		
20096 ✓	Nil		
20097 ✓	Nil		
20098 ✓	Nil/Nil		
20099 ✓	Nil		
20100 ✓	Nil		
20101 ✓	Nil		
20102 ✓	Nil		
20103 ✓	Nil		
20104 ✓	Nil		
20105 ✓	Nil		
20106 ✓	Nil		
20107 ✓	Nil		

Certified by Sonia Gardner



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Page 1 of 3

Geochemical Analysis Certificate

1W-2479-RG1 ✓

Company: **TOTAL ENERGOLD CORP.**
Project: 242
Attn: **JOE MACPHERSON**

Date: **MAR-14-91**
Copy 1. P.O. BOX 1720, SOUTH PORCUPINE, ONT. P0N1H0
2. FAX TO 235-2257

We hereby certify the following Geochemical Analysis of 67 ROCK samples submitted MAR-11-91 by JOE MACPHERSON.

Sample Number	Au ppb	As ppm
20667 ✓	14	
20668 ✓	Nil	
20669 ✓	24	
20670 ✓	Nil	
20671 ✓	21/14	
20672 ✓	Nil	
20674 ✓	Nil	
20675 ✓	Nil	
20676 ✓	17	
20677 ✓	Nil	
20678 ✓	Nil	
20679 ✓	10/7	
20680 ✓	Nil	
20681 ✓	Nil	
20682 ✓	Nil	
20683 ✓	Nil	
20684 ✓	Nil	
20685 ✓	Nil	
20686 ✓	Nil	
20687 ✓	Nil/Nil	
20688 ✓	Nil	
20689 ✓	Nil	
20690 ✓	Nil	
20691 ✓	Nil	
20692 ✓	Nil	
20693 ✓	10/17	
20694 ✓	Nil	
20695 ✓	Nil	
20696 ✓	Nil	
20697 ✓	Nil	

Certified by Donna Gardner



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Assaying - Consulting - Representation

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Page 2 of 3

Geochemical Analysis Certificate

1W-2479-RG1

Company: **TOTAL ENERGOLD CORP.**
Project: 242
Attn: **JOE MACPHERSON**

Date: **MAR-14-91**

Copy 1. P.O. BOX 1720, SOUTH PORCUPINE, ONT. P0N1H0
2. FAX TO 235-2257

We hereby certify the following Geochemical Analysis of 67 ROCK samples submitted MAR-11-91 by JOE MACPHERSON.

Sample Number	Au ppb	As ppm
20698	Nil	
20699	Nil	
20700	Nil	
20701	Nil	
20702	Nil	
20703	Nil	
20704	Nil	
20705	Nil	
20706	Nil	
20707	Nil/Nil	
20708	Nil	
20709	Nil	
20710	31	
20711	Nil	
20712	Nil	
20713	Nil	
20714	34	
20715	45/51	
20716 not rec'd		
20717	82/89	
20718	72	
20719	Nil	
20720	Nil	
20728	Nil	
20729	Nil	
20730	Nil	
20731	Nil	
20732	Nil	
20733	Nil	
20734	Nil	

Certified by Donna Gardner



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Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Page 3 of 3

1W-2479-RG1

Geochemical Analysis Certificate

Company: **TOTAL ENERGOLD CORP.**
Project: 242
Attn: **JOE MACPHERSON**

Date: **MAR-14-91**

Copy 1. P.O. BOX 1720, SOUTH PORCUPINE, ONT. P0N1H0
2. FAX TO 235-2257

We hereby certify the following Geochemical Analysis of 67 ROCK samples submitted MAR-11-91 by JOE MACPHERSON.

Sample Number	Au ppb	As ppm
20735	Nil	
20736	Nil	
20737	Nil	
20738	Nil	
20739	Nil	
20740	Nil / Nil	
20741	Nil	
20742	Nil	

Certified by Donna Gardner

APPENDIX 3

Swastika Laboratories
 P.O. Box 10
 Swastika, Ontario
 P0K 1T0

INVOICE

NO: 24522
 DATE: 03-14-91
 PAGE: 1 of 1

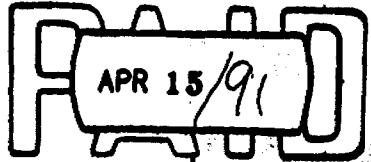
GST Registration Number: R 100294743

SHIP TO:

SOLD TO:

Total Energold
 68 Spruce Ave
 South Porcupine, Ontario
 P0N1H0

Same

ITEM NO	QUANTITY	UNIT	DESCRIPTION	f	P	UNIT PRICE	AMOUNT
T325	55		As Cert#1W-2451-RG1 3-GST @ 7 %, Excluded			6.500	346.50
							24.25
COMMENTS: Net 30 Days						SWASTIKA LABORATORIES  WITH THANKS PER <i>D. Gardner</i>	
						TOTAL	

Swastika Laboratories
P.O. Box 10
Swastika, Ontario
POK 1T0

RECEIVED
Total Energold Corp.
Timmins Office
APR 02 1991

NO: 24597
DATE: 03-25-91
PAGE: 1 of 1

Registration Number: S 100294743
SOLD TO:

SHIP TO:
Same

Total Energold
48 Spruce Ave
South Porcupine, Ontario
POK 1H0

TOTAL ENERGOLD CORP.
TIMMINS OFFICE

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	AMT	UNIT PRICE	AMOUNT
325	67	1	As Cert#1W-2479-RG			422.10
	51	1	As Cert#1W-2475-RG1			321.30
			3-GST @ 7 % Excluded			52.04
DISTRIBUTION						
				247.22	43.40	
				102.50	52.04	
TOTAL						795.44

COMMENTS:
Net 30 Days

TOTAL ERICKSON RESOURCES LTD.
1500 - 700 West Pender Street, Vancouver, British Columbia, Canada V6C 1G8
Telephone: (604) 681-9501 Fax: (604) 681-6813

2429

CHEQUE NO. 002429 CHEQUE DATE 04 19 91 VENDOR NO. SWA001

CHEQUE AMOUNT
\$795.44

***** Seven Hundred Ninety-Five and 44/100 *****

PAY TO THE ORDER OF

TOTAL ERICKSON RESOURCES LTD.

SWASTIKA LABORATORIES
P.O. BOX 10
SWASTIKA, ONTARIO POK 1T0

PER _____
PEB _____

THE TORONTO-DOMINION BANK, 499 GRANVILLE & PENDER STS., VANCOUVER, B.C. V6C 1V3

⑈002429⑈ ⑆95120⑈004⑆ 0910⑈0513783⑈

Swastika Laboratories
 P.O. Box 10
 Swastika, Ontario
 P0K 1T0

INVOICE

NO: 24513

DATE: 03-14-91

PAGE: 1 of 1

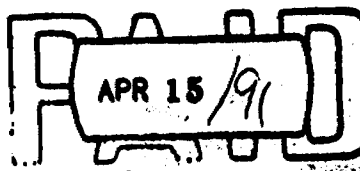
GST Registration Number: R 100294743

SOLD TO:

SHIP TO:

Total Energold
 68 Spruce Ave
 South Porcupine, Ontario
 P0N1H0

Same

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	F	P	UNIT PRICE	AMOUNT
51	1		Au Assays			7.980	406.98
51	1		Sample Handling Cert#1W-2478-RG1 ✓			3.000	153.00
67	1		Au Assays			7.980	534.66
67	1		Sample Handling Cert#1W-2479-RG1 ✓			3.000	201.00
			3-GST @ 7 %, Excluded				90.69
						SWASTIKA LABORATORIES  WITH THANKS <i>L. Ardine</i>	
COMMENT:						TOTAL →	
Net 30 Day							

Swastika Laboratories
P.O. Box 10
Swastika, Ontario
POK 1T0

INVOICE

NO: 24416

DATE: 03-01-91

PAGE: 1 of 1

GST Registration Number: R 100294743

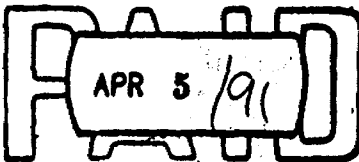
SOLD TO:

SHIP TO:

Total Energold
68 Spruce Ave
South Porcupine, Ontario
P0N1H0

Same

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	F	P	UNIT PRICE	AMOUNT
125	7	1	Au Assays			7.980	55.86
	7	1	Sample Handling Cert#1W-2430-R01 ✓ 3-GST @ 7 %, Excluded			3.000	21.00
							5.38

SWASTIKA LABORATORIES

WITH THANKS
PER *[Signature]*

COMMENTS:
Net: 30

TOTAL →

Swastika Laboratories
 P. O. Box 10
 Swastika, Ontario
 P0K 1T0

INVOICE

NO: 24468

DATE: 03-08-91

PAGE: 1 of 1

GST Registration Number: R 100294743

SOLD TO:

SHIP TO:

Total Energold
 68 Spruce Ave
 South Porcupine, Ontario
 P0N1H0

Same

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	F	P	UNIT PRICE	AMOUNT
62	1		AU Assays			542.50	542.50
62	1		Sample Handling			186.00	186.00
			Cert#1W-2451-RG1 ✓				
			3-GST @ 7 %, Excluded				50.99

SWASTIKA LABORATORIES

PAID
 APR 15 / 91

WITH THANKS

[Signature]

Net 30 Days

TOTAL

Swastika Laboratories
 P.O. Box 10
 Swastika, Ontario
 P0K 1T0

INVOICE

NO: 24410

DATE: 02-28-91

PAGE: 1 of 1

GST Registration Number: R 100294743

SOLD TO:

SHIP TO:

Total Energold
 68 Spruce Ave
 South Porcupine, Ontario
 P0N1H0

Same

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	F	P	UNIT PRICE	AMOUNT
1325	53	1	Au Assay			8.980	422.94
	53		Cu In			4.250	225.25
	53		Sample Handling			3.000	159.00
			Cert#1W-2406-R61 #242				
			3-GST @ 7 %, Excluded				56.50

SWASTIKA LABORATORIES

PAID
 APR 5/91

WITH THANKS

PER *[Signature]*

COMMENTS
 Net 30 days

TOTAL

543.69

Swastika Laboratories
 P.O. Box 10
 Swastika, Ontario
 P0K 1T0

INVOICE

NO: 24337

DATE: 02-21-91

PAGE: 1 of 1

GST Registration Number: R 100294743

SOLD TO:

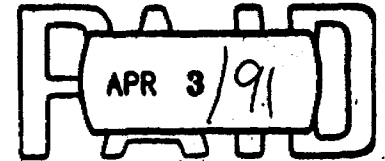
SHIP TO:

Total Energold
 68 Spruce Ave
 South Porcupine, Ontario
 P0N1H0

Same

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	F	P	UNIT PRICE	AMOUNT
1325	116	1	Au Assays			7.980	925.68
	116	1	Sample Handling			3.000	348.00
	13	1	Cu Zn			4.250	55.25
			Cert#1W-2344-R01 ✓ 3-GST @ 7 %, Excluded				93.03

SWASTIKA LABORATORIES



WITH THANKS

PER *[Signature]*

COMMENTS
 Net 30 Days

TOTAL →

Swastika Laboratories
 P. Box 10
 Swastika, Ontario
 P0K 1T0

INVOICE

NO: 24484
 DATE: 03-13-91
 PAGE: 1 of 1

GST Registration Number: R 100294743

SOLD TO:

SHIP TO:

Total Energold
 68 Spruce Ave
 South Porcupine, Ontario
 P0N1H0

Same

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	F	P	UNIT PRICE	AMOUNT
132	7		As Cert#1W-2430-RG1 ✓			6.300	44.10
	44		As Cert#1W-2406-RG1 ✓			6.300	277.20
			3-GST @ 7 %, Excluded				22.49
SWASTIKA LABORATORIES :							
PAID							
APR 15 / 91							
WITH THANKS							
PER <i>[Signature]</i>							
COMMENTS						TOTAL	
Net 30 Days							



Report of Work
(Expenditures, Subsection 77(19))

Mining Act

Type of Work Performed Diamond Drilling - Assaying Costs	Mining Division Larder Lake	Township or Area ST. LAURENT Hartubise
Recorded Holder TOTAL Energold Corporation	Prospector's Licence No. T-4723	
Address Suite 1500 - 700W Pender St. Vancouver, B.C. V6C 1G8		Telephone No. 604-681-9501
Work Performed By TOTAL Energold Corporation		
Name and Address of Author (of Submission) Joe MacPherson		Date When Work was Performed From: 2. 14 208 To: 25. 02. 91

All the work was performed on Mining Claim(s): Indicate no. of days performed on each claim. *See Note No. 1 on reverse side				Mining Claim 1136542	No. of Days 37.6	Mining Claim 1136548	No. of Days 37.6	Mining Claim 1136549	No. of Days 37.6	Mining Claim 1136550	No. of Days 37.6
Mining Claim 1136551	No. of Days 37.6	Mining Claim 1136556	No. of Days 37.6	Mining Claim 1136557	No. of Days 37.6	Mining Claim 1136560	No. of Days 37.6	Mining Claim 1167733	No. of Days 37.6	Mining Claim 1167734	No. of Days 37.6

Instructions Total days credits may be distributed at claim holder's choice. Enter number of days credits per claim in the expenditure days credit column (below).	Calculation of Expenditure Days Credits		Total Number of Mining Claims Covered by this Report of Work
	Total Expenditures \$ 5,647.82	+ 15 =	Total Days Credits 376.5
			89

Mining Claims (List in numerical sequence). If space is insufficient, attach schedules with required information.

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.	Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.	Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.	Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
See attached list											
RECEIVED											
JUL 02 1991											

MINING LANDS SECTION

Total Number of Days Performed 376.5	Total Number of Days Claimed 356	Total Number of Days to be Claimed at a Future Date 20
--	--	--

Certification of Beneficial Interest *See Note No. 2 on reverse side

I hereby certify that, at the time the work was performed, the claims covered in this report of work were recorded in the current recorded holder's name or held under a beneficial interest by the current recorded holder.	Date X	Recorded Holder or Agent (Signature) X
--	------------------	--

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Address of Person Certifying Joseph A. MacPherson, TOTAL Energold Corporation, 68 Bruce Ave., Box 1720, South Porcupine, Ontario			Telephone No. 705-235-2233	Date April 22/91	Certified By (Signature) <i>J. A. MacPherson</i>
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For Office Use Only

Total Days Cr. Recorded 356	Date Recorded May 21/91	Mining Recorder <i>[Signature]</i>
Date Approved as Recorded July 09/91		Provincial Manager, Mining Lands <i>[Signature]</i>

Received Stamp
RECEIVED LARDER LAKE MINING DIVISION
MAY 21 1991
TIME **9:09 am**

CD

CLAIM NO.

WORK DAYS
CREDITED

CLAIM NO.

WORK DAYS
CREDITED

L1111701 4
L1111702 4
L1111703 4
L1111740 4
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RECEIVED
LARDER LAKE
MINING DIVISION

MAY 21 1991

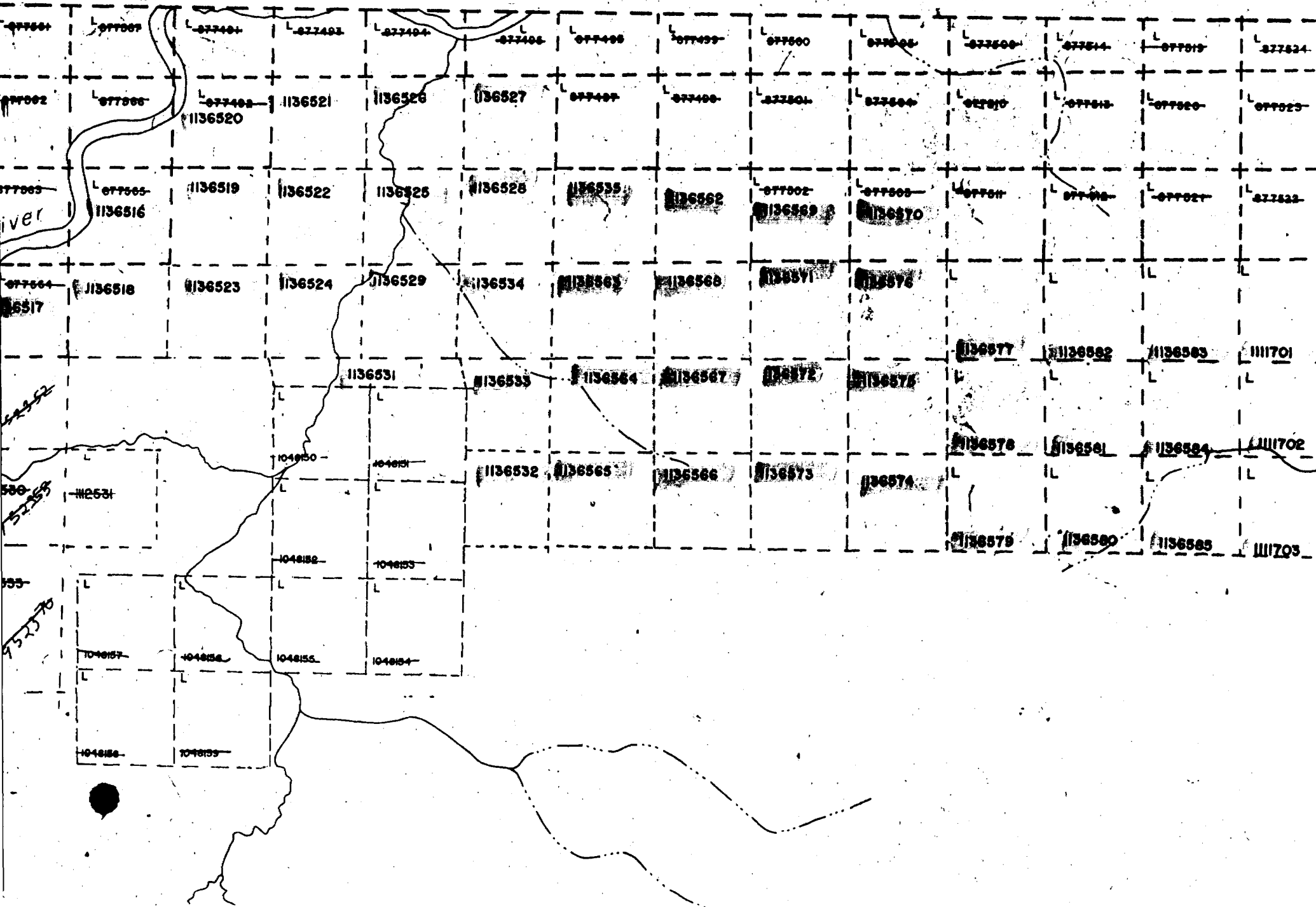
TIME _____

St. Laurent Tp.

BRADLETTE TOWNSHIP

PROJECTED											LINE			
879022	879023	879024	879025	879026	879027	877016	877017	877018	877019	877020	877281	877282	877283	877284
1136544	1136549	1136550	1136555	1136556	1136557	1136558	1136559	1136560	1136561	1136562				
879033	879032	879031	879030	879029	879028	877023	877024	877025	877026	877027	877285	877286	877287	877288
1136545	1136548	1136551	1136554	1136557	1136560	1136563	1136566	1136569	1136572	1136575				
879048						877026	877027	877028	877029	877030	877291	877292	877293	877294
1136546	1136547	1136552	1136553	1136558	1136559	1136562	1136565	1136568	1136571	1136574				
1167729	1167730	1167733	1167734	1167737	1167738	955505	955506	955515	955516	955525	955526	955535	955536	955545
1167728	1167731	1167732	1167735	1167736	1167739	955504	955507	955514	955517	955524	955527	955534	955537	955544
						955503	955508	955513	955518	955523	955528	955533	955538	955543
						955502	955509	955512	955519	955522	955529	955532	955539	955542
						955501	955510	955511	955520	955521	955530	955531		

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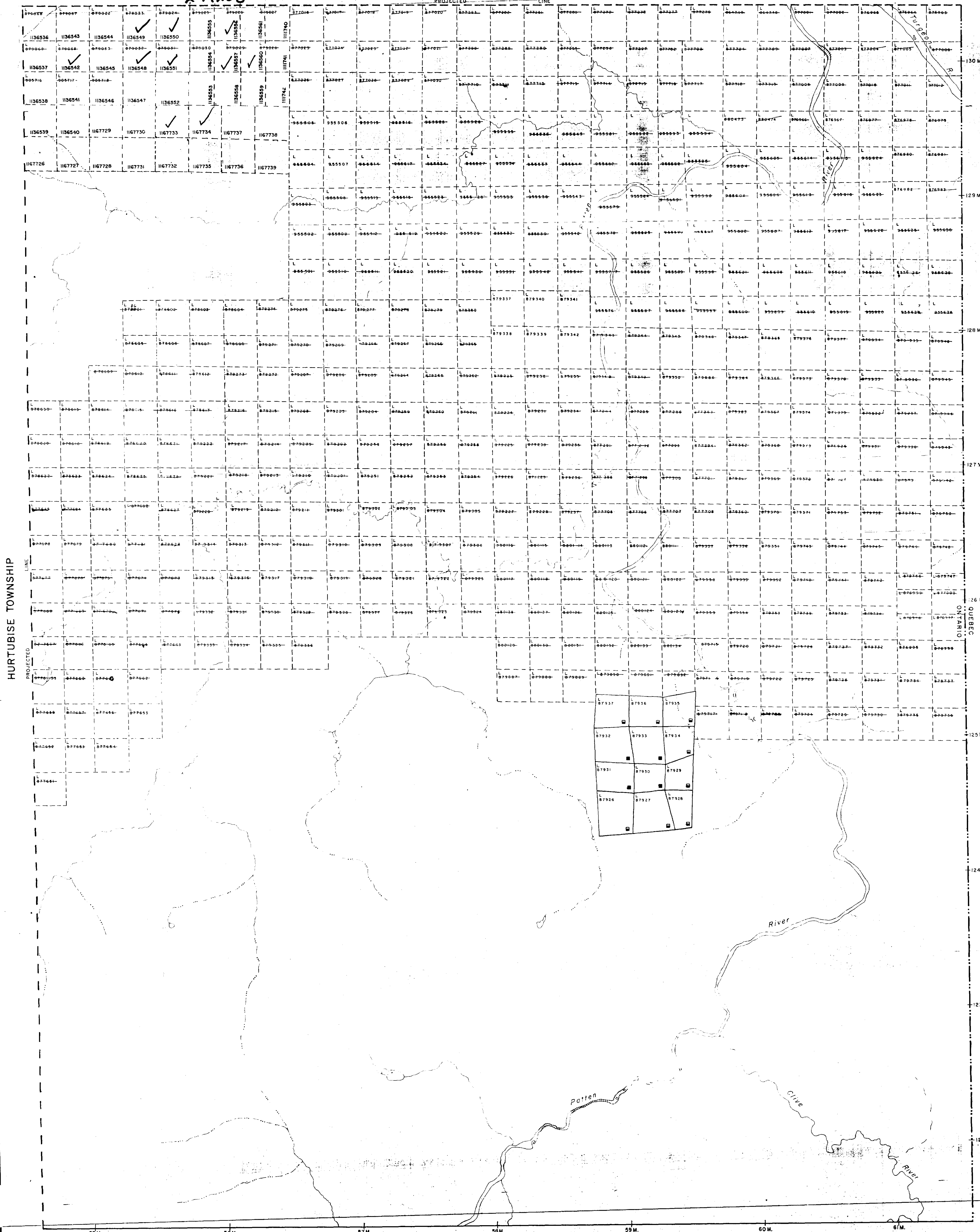


M.R.O. - MINING RIGHTS ONLY
 S.R.O. - SURFACE RIGHTS ONLY
 M+S. - MINING AND SURFACE RIGHTS

Description Order No. Date Disposition Fee

BRADETTE TOWNSHIP

2.14209



LEGEND

- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES
- TOWNSHIPS, BASE LINES, ETC.
- LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES
- LOT LINES
- PARCEL BOUNDARY
- MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION OR COMPOSITE PLAN
- RESERVATIONS
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES
- TRAVERSE MONUMENT

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
SURFACE RIGHTS ONLY	○
MINING RIGHTS ONLY	○
LEASE, SURFACE & MINING RIGHTS	■
SURFACE RIGHTS ONLY	■
MINING RIGHTS ONLY	■
LICENCE OF OCCUPATION	▼
ORDER IN COUNCIL	OC
RESERVATION	○
CANCELLED	○
SAND & GRAVEL	○

Scale 1:20,000

DATE OF ISSUE

MAR 5 1991

LARDER LAKE
 MINING RECORDER'S OFFICE

CIRCULATED OCTOBER 3, 1988

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

TOWNSHIP
ST. LAURENT
 M.N.R. ADMINISTRATIVE DISTRICT
COCHRANE
 MINING DIVISION
LARDER LAKE
 LAND TITLES / REGISTRY DIVISION
COCHRANE

Ministry of Natural Resources and Mines
 Ontario

