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_____GOLDCORP MUSSELWHITE MINE

MUSSELWHITE MINE

2016 WEST ANTICLINE UNDERGROUND PROJECT

DIAMOND DRILL REPORT

G-Plan #2210, Skinner Lake

M. Zago P.Geo.

September 2016

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SUMMARY

In the summer of 2016 (June to August), a diamond drilling program was conducted to explore the possible down-plunge extension of known mineralization associated with the West Anticline and Camp Zones of the Northern Iron Formation (NIF). Drilling was conducted underground from the 657mL WEL Access ramp, on the Musselwhite Mine property, which is owned and operated by Goldcorp Canada Ltd. The work completed comprises 4 separate mining leases. Drilling revealed similar geology and local mineralization to what had been previously discovered down plunge of the target area.

INTRODUCTION

Musselwhite Mine is a gold producing mine that is 100% owned and operated by Goldcorp Canada Ltd. The report discusses work conducted within the boundaries of mining leases PA449157, PA449158, PA449149, and PA529766. This report is written on behalf of Goldcorp Canada Ltd. by the staff of Musselwhite Mine.

The program was designed and implemented by the exploration department at Musselwhite Mine. Drilling was performed by Boart Longyear. The core from this program is stored adjacent to the exploration camp on the Musselwhite Mine property.

LOCATION AND ACCESS

The Musselwhite Mine property is located in the Patricia Mining District of northwestern Ontario on NTS map sheet 53B/9 (Opapimiskan Lake) and on the Ontario Ministry of Northern Development and Mines G-Plan #2210, Skinner Lake. The mine is located at 52° 36' 50" N latitude and 90° 21' 43" W longitude. It is 480 km NNW of Thunder Bay (Figure 1) and 103 km north of Pickle Lake. The mine is serviced by an all-weather gravel road that extends north from Pickle Lake as well as charter air service from Thunder Bay and several local communities including Sioux Lookout, Round Lake and Cat Lake. This was an underground drill program, with mine roads and underground ramps used for access to the drill.

Figure 1: General Location Map

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LAND TENURE & OWNERSHIP

All work in this report was conducted within the boundaries of the Musselwhite Mine property. Mining lease PA449157 is ~17.8 ha (1 claim unit), PA449158 is ~17.8 ha (1 claim unit), PA449149 is ~14.1 ha (1 claim unit), and PA529766 is ~16.8 ha (1 claim unit) in size. All 4 claim blocks are owned by Goldcorp Canada Ltd. The tenure rights for these leases are mining and surface rights.

PROPERTY GEOLOGY

The Musselwhite Property covers a portion of the northwest-trending North Caribou greenstone belt which is located in the northern margin of the Archean North Caribou Superterrane. The North Caribou greenstone belt is comprised of 8 lithotectonic supercrustal assemblages, with the Opapimiskan-Markop metavolcanic suite hosting the Musselwhite gold deposit. The rocks of the Opapimiskan-Markop suite are subdivided into a detailed stratigraphic sequence that is relatively consistent over the property, with local facies changes observed along and across strike. The structurally lowermost units observed in drilling to date are fine-grained siliciclastic sediments with minor felsic volcanics that occur ~500m east of the mine. It is assumed that these are underlain by mafic-ultramafic flows which outcrop 2.5km southeast of the mine along the eastern edge of the belt. These are followed by largely komatiitic basalts and ultramafic flows/intrusions with local andesite flows. This predominantly high-Mg series of volcanic rocks is overlain by two major banded iron formations (BIF) separated by 10-30m of mafic-ultramafic volcanics (Figure-4).





The lowermost BIF is locally termed the Southern Iron Formation (SIF) and is a generally monotonous sequence of thinly laminated magnetite and chert. There is generally little or no silicate, sulphide, or other facies within this horizon in the mine area. The SIF commonly occurs in two principal horizons, each anywhere from 5 to 20m thick, separated by 5-10m of basalt. About 20-30m above the SIF is the Northern Iron Formation (NIF). This is a complexly layered horizon typically ~40m thick in total and comprised of up to seven different facies, which are not always present across the drilled extent of the NIF (Figure-5). Overlying the NIF is a variable thickness of basalts with meta-sedimentary interbeds, and crosscutting ultramafic dikes. The sedimentary interbeds consist of quartz-feldspar metasediments (6), garnet amphibolite (4E), and garnet biotite schist (4F). A felsic to intermediate volcanic "wedge" consisting of dacitic to rhyolitic tuffs and flows with intercalated meta-sediments overlies the majority of the Musselwhite Mine area.

	Musselwhite Mine Stratigraphy			
	Unit Name	Rock Types	Age (Ma)	Comments
Basalt?	Avol	Dacite-rhyolite tuffs, flows, volcaniclastic sediments	2972	
	Bvol	Tholeiitic basalt, & 4 thin BIFs		
4F 4EA 4B	Northern Iron Fm	Oxide, silicate & sulphide BIF		Mineralisation dated at 2690 Ma
	"Basement basalts"	Basalt, andesite, & ultramafic flows		
	Southern Iron Fm	2 Chert-Mt +/- Grunerite-Pyx BIFs		
	"Lower basalts"	Komatiitic basalts + ultramafics, local felsic volcanics		
	Felsic tuff	Felsic ash tuff	under revision	
	"Lower sediments"	Fine grained siliciclastic sediments, lesser felsic volcanics, minor ultramafics		Possible major fault boundary with Opap. unit above
+++++++++++++++++++++++++++++++++++++++	Late Plutons & Older Gneisses	TTG plutons intruding older TTG gneisses + greenstone	2723-29 & 2856-70	

Figure 3: Stratigraphy of the Musselwhite Mine area.

PROGRAM DESCRIPTION

An 1127 m drill hole was planned to test the magnetite-chert iron formation within the west anticline area of the highly folded "Northern Iron Formation" (NIF) in an attempt to identify any down-plunge extension of mineralization found in the East Camp Zone. The drill hole (16-WEL-061) was collared underground from the 657 WEL Access ramp located approximately 900m below Opapimiskan Lake. Drill hole information is shown below in **Table 1** and drill locations are shown in **Figure 2**.

		UTM Co-o	ordinates NAD 8	33	Din	Donth
Hole ID	Easting	Northing	Elevation	Azimuth	Dip	Depth
	675165	5834629	-600 m	223		
		Mine Gr	id Co-ordinates	;	21	1127.2
10-VVEL-001	Easting	Northing	R.L.	Azimuth	21	1127.2111
	8077	13500	4402	268		

Table 1: West Limb drill hole information.



Figure 4: Map showing location of drill hole.

RESULTS/RECOMMENDATIONS

The diamond drill hole was collared in the mixed metavolcanic and metasedimentary sequence overlying the Northern Iron Formation. 16-WEL-061 drilled the NIF on the west limb of the East Bay Synform area, ~600m of the underlying mafic volcanic package with minor ultramafic dikes, and then back into the NIF in the west anticline area before being terminated in felsic volcanics rocks. Rocks have been metamorphosed to amphibolite grade. A cross section of the drilling can be

seen in **Appendix 1** and drill logs in **Appendix 4** and the various lithology codes used during logging are briefly described below:

1	Ultramafic
2	Basalt
2H	Mafic dike
2U	Garnet bearing metavolcanic
3F	Felsic tuff/lapilli tuff
4A	Chert-grunerite iron formation
4B	Chert-magnetite iron formation
4BF	Chert-Magnetite iron formation with abundant garnet-biotite bands
4E	Garnet-amphibole iron formation
4EA	Garnet-amphibole-grunerite iron formation
4EF	Garnet-amphbiole with less than 50% intercalated garnet-biotite schist
4F	Garnet-biotite schist
4FB	Garnet-biotite schist with abundant magnetite +/- chert
4FE	Garnet-biotite schist with less than 50% intercalated Garnet-amphibole
6	Metasediment
6W	Garnet-bearing mudstone/siltstone/sandstone
13	Lamprophyre dike

With several zones of mineralization intersected, further drilling is recommended to follow up the mineralization in the targeted area down-plunge extension of the Camp Zone, and to get a better understanding of the geology of the West Anticline Area of the mine property.

STATEMENT OF EXPENDITURES

A total of \$ 163,062 was spent drilling 16-WEL-061. Due to the expense incurred drilling, there was no need to claim assessment credits for related costs such as consumables or assay costs. A breakdown of the drilling expenditures can be seen in **Table 2** below and the drill invoices in **Appendix 5**.

Item	Cost
Move	\$5,611
Drilling	\$138,047
Survey	\$1,891
Grout	\$3,467
Supervision	\$5,662
Rentals	\$8,384
Total	\$163,062

Table 2: Detailed breakdown of 16-WEL-061 drilling expenditures.

Drill meters per claim were calculated by measuring (using the Vulcan 3D modelling software) the co-ordinates at the point where each drill hole crossed a claim boundary and then determining the downhole depth at that point using the calculated XYZ co-ordinates from the Maxibor downhole orientation surveys or by measuring from the claim line to the nearest labeled contact displayed in Vulcan. The total drilling cost of 16-WEL-061 as per the drill contractors invoices (Table 2) was then prorated by the percentage of the hole drilled on each claim as per **Table 3**.

Table 3: Percentage of drill holes attributed to each claim.

Holo Number	Claim #	Claim #	Claim #	laim # Claim #
Hole Number	PA449157	PA449158	PA449149	PA529766
16-WEL-061	18%	22%	37%	23%

STATEMENT OF QUALIFICATIONS

I, Matthew Zago, herby certify that:

- 1. I am the author of this report.
- 2. I have a Bachelor of Science Honors in Geological Sciences from the University of Manitoba in Winnipeg, Manitoba.
- 3. I am a registered Professional Geologist of the Association of Professional Engineers and Geoscientists of Ontario #2442
- 4. I am employed by Goldcorp Canada Ltd. at Musselwhite Mine.
- 5. I agree with all the information contained within this report and believe that it is an accurate description of the worked performed.
- 6. I reside in the city of Thunder Bay, Ontario, Canada.

MZago

Name:

Date: August 28th, 2016

Goldcorp Canada Ltd. Musselwhite Mine PO Box 7500 Thunder Bay, ON P7B 6S8 Appendix 1



Appendix 2

Hal		
Но	e: 16-WEL-061	Project: WEL
Mine Grid Easting: 8077 286	Discord Death (as), 4000	
Wine Grid Lasting: 8077.286	Planned Deptn(m): 1080	Drill Start Date: 6/26/2010
Aine Grid Northing: 13500.957	Actual Depth (m): 1127.2	Drill End Date: 8/5/2016
Elevation: 4402.323	Core Diameter: NQ2	
		Target 1: X
UTM East:	Plugged: YES	-
UTM North:	Grout Test:YES	Target 2: X
	Result:BAD	Target 3:
Drill Instructions:		
Collar Comments:		

	Sui	vey	
Depth	Azimuth	Dip	SurveyType
0	268.1	20.8	MAXI
3	268	20.7	MAXI
6	268	20.7	MAXI
9	268	20.8	MAXI
12	268	20.7	MAXI
15	268	20.7	MAXI
10	267.9	20.7	MAXI
24	268	20.7	MAXI
27	268	20.7	MAXI
30	268	20.7	MAXI
33	268.1	20.7	MAXI
36	268.1	20.8	MAXI
39	268.2	20.8	MAXI
42	268.2	20.8	MAXI
45	268.2	20.7	MAXI
48	268.1	20.7	MAXI
51	268.2	20.7	MAXI
54	268.2	20.5	MAXI
57	268.2	20.5	MAXI
60	268.2	20.4	MAXI
63	268.2	20.3	MAXI
66	268.2	20.4	MAXI
59	268.3	20.3	MAXI
72	268.3	20.2	MAXI
75	268.4	20.2	MAXI
81	268.4	20.2	MAXI
84	268.4	20.1	MAXI
87	268.5	20.1	MAXI
90	268.6	20.1	MAXI
93	268.6	20.1	MAXI
96	268.6	20	MAXI
99	268.7	20	MAXI
102	268.7	19.9	MAXI
105	268.7	19.9	MAXI
108	268.8	19.8	MAXI
111	268.8	19.8	MAXI
114	268.8	19.7	MAXI
117	268.8	19.6	MAXI
120	268.8	19.6	MAXI
123	268.8	19.5	MAXI
120	200.0	19.5	MAXI
132	269	19.4	MAXI
135	269	19.4	MAXI
138	269.1	19.4	MAXI
141	269.1	19.4	MAXI
144	269.1	19.3	MAXI
147	269.1	19.3	MAXI
150	269.1	19.2	MAXI
153	269.1	19.2	MAXI
156	269.1	19.1	MAXI
159	269	19.1	MAXI

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	MUSSELWHITE MINE - G	EOLOGY
Hole:	16-WEL-061	Project: WEL
Mine Grid Easting: 8077.286	Planned Depth(m): 1080	Drill Start Date: 6/26/2016
Mine Grid Northing: 13500.957	Actual Depth (m): 1127.2	Drill End Date: 8/5/2016
Elevation: 4402.323	Core Diameter: NQ2	
		Target 1: X
UTM East:	Plugged: YES	
UTM North:	Grout Test: YES	Target 2: X
	Result:BAD	Target 3:
Drill Instructions:		
Collar Comments:		

	Su	rvey	
Depth	Azimuth	Dip	SurveyType
62	269.1	19.1	MAXI
65	269	19	MAXI
68	269.1	19	MAXI
.71	269.1	19	MAXI
.74	269.1	19.1	MAXI
177	269.1	19.1	MAXI
80	269.1	19.1	MAXI
83	269.1	19.1	MAXI
86	269.1	19.1	MAXI
89	269.1	19.1	MAXI
92	269.2	19	MAXI
95	269.2	19	MAXI
98	269.2	19	MAXI
201	269.2	18.9	MAXI
204	269.3	18.9	MAXI
207	269.3	18.9	MAXI
10	269.3	18.9	MAXI
13	269.3	18.9	MAXI
16	269.2	18.9	MAXI
19	269.2	18.9	MAXI
22	269.2	18.8	MAXI
25	269.2	18.8	MAXI
28	269.2	18.8	MAXI
31	269.3	18.8	MAXI
34	269.3	18.7	MAXI
37	269.3	18.7	MAXI
40	269.4	18.6	MAXI
43	269.3	18.5	MAXI
46	269.3	18.4	MAXI
49	269.2	18.4	MAXI
52	269.2	18.4	MAXI
255	269.1	18.4	MAXI
258	269.1	18.2	MAXI
261	269.1	18.3	MAXI
264	269.1	18.3	MAXI
67	269.1	18.3	MAXI
270	269.1	18.3	MAXI
273	269.1	18.3	MAXI
276	269	18.2	MAXI
79	269	18.2	MAXI
182	269	18.2	MAXI
85	269	18.2	MAXI
88	269	18.2	MAXI
91	269 1	18.2	MAXI
94	269.1	18.2	MAXI
07	260.2	19.3	MAXI
.97	269.2	18.3	MAXI
00	260.3	18.3	MAXI
000	269.3	18.3	MAXI
00	209.0	10.3	MAXI
009	209.2	10.4	MAXI
12	269.2	10.4	MAXI
010	209.3	10.4	MAXI
318	269.4	18.4	MAXI
321	269.4	18.4	MAXI
and the second se		1	

MUSSELWHITE MINE - GEOLOGY											
Hole:	16-WEL-061	Project: WEL									
Mine Grid Easting: 8077.286	Planned Depth(m): 1080	Drill Start Date: 6/26/20	16								
Vine Grid Northing: 13500.957	Actual Depth (m): 1127.2	Drill End Date: 8/5/2016	6								
Elevation: 4402.323	Core Diameter: NQ2										
UTM East:	Plugged: YES	Target 1: X									
UTM North:	Grout Test: YES	Target 2: X									
	Result:BAD	Target 3:									
Drill Instructions:											
Collar Comments											
Collar Comments:											

	Su	vey	
Depth	Azimuth	Dip	SurveyType
324	269.4	18.4	MAXI
327	269.4	18.4	MAXI
330	269.4	18.4	MAXI
333	269.4	18.3	MAXI
336	269.5	18.3	MAXI
339	269.5	18.3	MAXI
342	269.4	18.2	MAXI
345	269.5	18.2	MAXI
348	269.5	18.3	MAXI
351	269.6	18.3	MAXI
354	269.6	18.3	MAXI
357	269.6	18.3	MAXI
360	269.7	18.3	MAXI
363	269.7	18.3	MAXI
366	269.7	18.2	MAXI
369	269.7	18.1	MAXI
372	269.8	18.1	MAXI
375	269.8	18.1	MAXI
3/0	209.9	18.1	MAXI
384	269.9	18.1	MAXI
297	209.9	10.1	MAXI
390	269.9	10.1	MAXI
393	269.9	18.2	MAXI
396	269.9	18.2	MAXI
399	269.9	18.3	MAXI
402	270	18.4	MAXI
405	269.9	18.4	MAXI
408	270	18.4	MAXI
411	270	18.4	MAXI
414	270	18.4	MAXI
417	270	18.4	MAXI
420	270.1	18.5	MAXI
423	270.1	18.5	MAXI
426	270.1	18.5	MAXI
429	270.1	18.5	MAXI
432	270.1	18.5	MAXI
435	270.1	18.5	MAXI
438	270.1	18.5	MAXI
441	270.1	18.5	MAXI
444	270.1	18.5	MAXI
447	270	18.4	MAXI
450	270	18.3	MAXI
453	270	18.3	MAXI
450	270	10.2	MAXI
462	270	10.2	MAXI
465	270	18.3	MAXI
468	270	18.3	MAXI
471	270	18.3	MAXI
474	269.9	18.3	MAXI
477	269.9	18.4	MAXI
480	269.9	18.5	MAXI
483	269.9	18.5	MAXI

MUSSELWHITE MINE - GEOLOGY											
Hole:	16-WEL-061	Project: WEL									
Mine Grid Easting: 8077.286	Planned Depth(m): 1080	Drill Start Date: 6/26/2016									
Mine Grid Northing: 13500.957	Actual Depth (m): 1127.2	Drill End Date: 8/5/2016									
Elevation: 4402.323	Core Diameter: NQ2										
UTM East:	Plugged: YES Grout Test: YES Result:BAD	Target 1: X Target 2: X Target 3:									
Drill Instructions:											
Collar Comments:											

Survey										
Depth	Azimuth	Dip	SurveyType							
486	269.9	18.6	MAXI							
489	269.9	18.6	MAXI							
492	270	18.5	MAXI							
495	270	18.7	MAXI							
498	270.1	18.7	MAXI							
501	270.1	18.7	MAXI							
504	270.1	18.7	MAXI							
507	270.1	18.7	MAXI							
510	270.1	18.7	MAXI							
513	270.1	18.7	MAXI							
516	270.1	18.7	MAXI							
519	270.1	18.7	MAXI							
522	270.2	18.7	MAXI							
525	270.2	18.7	MAXI							
528	270.2	18.7	MAXI							
531	270.2	18.8	MAXI							
534	270.3	18.8	MAXI							
537	270.3	18.7	MAXI							
540	270.3	18.8	MAXI							
543	270.3	18.9	MAXI							
546	270.3	19	MAXI							
549	270.2	19	MAXI							
552	270.2	18.9	MAXI							
555	270.2	18.8	MAXI							
558	270.2	18.9	MAXI							
561	270.2	18.9	MAXI							
564	270.2	19	MAXI							
567	270.2	18.9	MAXI							
570	270.1	18.9	MAXI							
573	270.1	18.9	MAXI							
576	270.1	19	MAXI							
579	270	18.9	MAXI							
582	270	18.9	MAXI							
585	270	18.9	MAXI							
588	270	18.8	MAXI							
591	270.1	18.8	MAXI							
594	270.1	18.8	MAXI							
597	270 1	18.8	MAXI							
600	270.1	18.8	MAXI							
603	270.1	18.8	MAXI							
606	270.2	18.9	MAXI							
609	270.2	18.9	MAXI							
612	270.2	18.9	MAXI							
615	270.2	18.9	MAXI							
619	270.2	10.9	MAXI							
601	270.2	10	MAXI							
621	270.2	19	MAXI							
024	270.3	19	MAXI							
627	270.3	19	MAXI							
630	270.3	19.1	MAXI							
033	270.3	19	MAXI							
636	270.3	19	MAXI							
639	270.3	19.1	MAXI							
042	270.4	19	MAXI							
045	270.4	19.1	MAXI							

	Ν	USSELWHITE MINE	- GEOLOGY	
	Hole: 1	6-WEL-061	Project: WEL	
Mine Grid Easting: 8077.286	5	Planned Depth(m): 1080	Drill Start Date	: 6/26/2016
Mine Grid Northing: 13500.95	57	Actual Depth (m): 1127	.2 Drill End Date	8/5/2016
Elevation: 4402.323	í -	Core Diameter: NQ2		
UTM East:		Plugged: YES Grout Test:YES	Target 1: Target 2:	x x
		Result:BAD	Target 3:	
Drill Instructions:				
Collar Comments				

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DepthÁximuthDipSurveytype648270.419.1MAX1651270.419.1MAX1654270.419.2MAX1657270.419.2MAX1660270.519.2MAX1663270.519.2MAX1669270.619.2MAX1672270.619.2MAX1675270.619.1MAX1676270.719.1MAX1677270.719.1MAX1684270.719.1MAX1684270.719.1MAX1690270.819.1MAX1691270.819.1MAX1692270.819.1MAX1693270.819.1MAX1694270.719.1MAX1695270.819.1MAX1705270.819.1MAX1711270.719.1MAX1724270.719.1MAX1735270.719.1MAX1744271.719.1MAX1754270.719.1MAX1755270.819.1MAX1754270.719.1MAX1755270.819.1MAX1754270.719.1MAX1755270.719.1MAX1754270.719.1MAX1755271.119.1MAX1756 <th></th> <th>Su</th> <th>rvey</th> <th></th>		Su	rvey	
648 270.4 19.1 MAXI 651 270.4 19.1 MAXI 654 270.4 19.2 MAXI 657 270.4 19.2 MAXI 660 270.5 19.2 MAXI 663 270.5 19.2 MAXI 666 270.5 19.2 MAXI 667 270.6 19.2 MAXI 672 270.6 19.2 MAXI 675 270.6 19.1 MAXI 674 270.7 19.1 MAXI 684 270.7 19 MAXI 687 270.7 19 MAXI 6867 270.7 19 MAXI 690 270.8 19.1 MAXI 691 270.8 19.1 MAXI 705 270.8 19.1 MAXI 705 270.7 19 MAXI 705 270.7 19.1 MAXI <	Depth	Azimuth	Dip	SurveyType
651 270.4 19.1 MAXI 654 270.4 19.2 MAXI 657 270.4 19.2 MAXI 660 270.5 19.2 MAXI 663 270.5 19.2 MAXI 666 270.6 19.2 MAXI 672 270.6 19.1 MAXI 675 270.6 19.1 MAXI 676 270.7 19.1 MAXI 681 270.7 19.1 MAXI 687 270.7 19 MAXI 686 270.9 19.1 MAXI 690 270.8 19.1 MAXI 691 270.8 19.1 MAXI 692 270.8 19.1 MAXI 705 270.8 19.1 MAXI 705 270.7 19 MAXI 711 270.7 19.1 MAXI 725 270.7 19.1 MAXI	648	270.4	19.1	MAXI
654 270.4 19.2 MAXI 657 270.4 19.2 MAXI 660 270.5 19.2 MAXI 666 270.5 19.2 MAXI 666 270.5 19.2 MAXI 666 270.6 19.2 MAXI 667 270.6 19.1 MAXI 678 270.6 19.1 MAXI 681 270.7 19.1 MAXI 684 270.7 19 MAXI 6867 270.8 19.1 MAXI 6868 270.9 19.1 MAXI 690 270.8 19.1 MAXI 693 270.8 19.1 MAXI 696 270.8 19.1 MAXI 705 270.8 19.1 MAXI 705 270.8 19.1 MAXI 714 270.7 19.1 MAXI 720 270.7 19.1 MAXI	651	270.4	19.1	MAXI
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768 271.3 19.9 MAXI 771 271.3 19.9 MAXI 774 271.3 19.9 MAXI 777 271.3 20 MAXI 780 271.3 20.1 MAXI 783 271.4 20.1 MAXI 786 271.4 20.2 MAXI 789 271.4 20.3 MAXI 792 271.5 20.4 MAXI 795 271.5 20.5 MAXI 798 271.5 20.5 MAXI 801 271.5 20.5 MAXI 804 271.5 20.6 MAXI 807 271.5 20.6 MAXI	765	271.3	19.8	MAXI
771 271.3 19.9 MAXI 774 271.3 19.9 MAXI 777 271.3 20 MAXI 780 271.3 20.1 MAXI 783 271.4 20.1 MAXI 786 271.4 20.1 MAXI 786 271.4 20.2 MAXI 789 271.4 20.3 MAXI 792 271.5 20.4 MAXI 795 271.5 20.5 MAXI 798 271.5 20.5 MAXI 801 271.5 20.5 MAXI 804 271.5 20.6 MAXI 807 271.5 20.6 MAXI	768	271.3	19.9	MAXI
774 271.3 19.9 MAXI 777 271.3 20 MAXI 780 271.3 20.1 MAXI 783 271.4 20.1 MAXI 786 271.4 20.1 MAXI 787 271.4 20.1 MAXI 789 271.4 20.2 MAXI 792 271.5 20.4 MAXI 795 271.5 20.4 MAXI 798 271.5 20.5 MAXI 801 271.5 20.5 MAXI 804 271.5 20.6 MAXI 804 271.5 20.6 MAXI	771	271.3	19.9	MAXI
777 271.3 20 MAXI 780 271.3 20.1 MAXI 783 271.4 20.1 MAXI 786 271.4 20.1 MAXI 786 271.4 20.2 MAXI 789 271.4 20.3 MAXI 792 271.5 20.4 MAXI 795 271.5 20.4 MAXI 798 271.5 20.5 MAXI 801 271.5 20.5 MAXI 804 271.5 20.6 MAXI 804 271.5 20.6 MAXI 807 271.5 20.6 MAXI	774	271.3	19.9	MAXI
780 271.3 20.1 MAXI 783 271.4 20.1 MAXI 786 271.4 20.2 MAXI 786 271.4 20.3 MAXI 789 271.5 20.4 MAXI 792 271.5 20.4 MAXI 795 271.5 20.5 MAXI 801 271.5 20.5 MAXI 301 271.5 20.5 MAXI 304 271.5 20.6 MAXI 307 271.5 20.6 MAXI	777	271.3	20	MAXI
783 271.4 20.1 MAXI 786 271.4 20.2 MAXI 789 271.4 20.3 MAXI 792 271.5 20.4 MAXI 795 271.5 20.4 MAXI 797 271.5 20.4 MAXI 798 271.5 20.5 MAXI 801 271.5 20.5 MAXI 804 271.5 20.6 MAXI 807 271.5 20.6 MAXI	780	271.3	20.1	MAXI
786 271.4 20.2 MAXI 789 271.4 20.3 MAXI 792 271.5 20.4 MAXI 795 271.5 20.4 MAXI 796 271.5 20.4 MAXI 798 271.5 20.5 MAXI 801 271.5 20.5 MAXI 804 271.5 20.6 MAXI 807 271.5 20.6 MAXI	783	271.4	20.1	MAXI
789 271.4 20.3 MAXI 792 271.5 20.4 MAXI 795 271.5 20.4 MAXI 798 271.5 20.5 MAXI 801 271.5 20.5 MAXI 804 271.5 20.6 MAXI 807 271.5 20.6 MAXI	786	271.4	20.2	MAXI
792 271.5 20.4 MAXI 795 271.5 20.4 MAXI 798 271.5 20.5 MAXI 801 271.5 20.5 MAXI 804 271.5 20.6 MAXI 807 271.5 20.6 MAXI	789	271.4	20.3	MAXI
795 271.5 20.4 MAXI 798 271.5 20.5 MAXI 801 271.5 20.5 MAXI 804 271.5 20.6 MAXI 807 271.5 20.6 MAXI	792	271.5	20.4	MAXI
798 271.5 20.5 MAXI 301 271.5 20.5 MAXI 304 271.5 20.6 MAXI 307 271.5 20.6 MAXI	795	271.5	20.4	MAXI
301 271.5 20.5 MAXI 304 271.5 20.6 MAXI 307 271.5 20.6 MAXI	798	271.5	20.5	MAXI
804 271.5 20.6 MAXI 807 271.5 20.6 MAXI	801	271.5	20.5	MAXI
807 271.5 20.6 MAXI	804	271.5	20.6	MAXI
	807	271.5	20.6	MAXI

	MUSSELWHITE MINE - G	EOLOGY
Hole:	16-WEL-061	Project: WEL
Mine Grid Easting: 8077.286	Planned Depth(m): 1080	Drill Start Date: 6/26/2016
Mine Grid Northing: 13500.957	Actual Depth (m): 1127.2	Drill End Date: 8/5/2016
Elevation: 4402.323	Core Diameter: NQ2	
UTM East:	Plugged: YES Grout Test: YES Result:BAD	Target 1: X Target 2: X Target 3:
Drill Instructions:		
Collar Comments:		

Survey											
Depth	Azimuth	Dip	SurveyType								
810	271.5	20.7	MAXI								
813	271.5	20.6	MAXI								
816	271.5	20.7	MAXI								
819	271.5	20.7	MAXI								
822	271.6	20.7	MAXI								
825	271.6	20.8	MAXI								
828	271.6	20.8	MAXI								
831	271.6	20.9	MAXI								
834	271.6	20.9	MAXI								
837	271.6	20.9	MAXI								
840	271.6	21	MAXI								
843	271.6	21	MAXI								
846	271.6	21	MAXI								
849	271.6	21.1	MAXI								
852	271.6	21.1	MAXI								
855	271.6	21.1	MAXI								
858	271.6	21.1	MAXI								
861	271.6	21.1	MAXI								
864	271.6	21.2	MAXI								
867	271.6	21.2	MAXI								
870	271.6	21.2	MAXI								
873	271.5	21.2	MAXI								
876	271.5	21.1	MAXI								
879	271.5	21.1	MAXI								
882	271.5	21.1	MAXI								
885	271.5	21.1	MAXI								
888	271.6	21.2	MAXI								
891	271.5	21.2	MAXI								
804	271.6	21.3	MAXI								
897	271.6	21.3	MAXI								
000	271.0	21.3	MAXI								
900	271.0	21.4	MAXI								
903	271.0	21.4	MAXI								
906	271.7	21.4	MAXI								
909	271.0	21.3	MAXI								
912	271.0	21.4	MAXI								
915	271.6	21.4	MAXI								
918	2/1.6	21.4	MAXI								
921	2/1.5	21.4	MAXI								
924	271.4	21.5	MAXI								
927	271.4	21.4	MAXI								
930	271.3	21.4	MAXI								
933	271.2	21.4	MAXI								
936	271.1	21.4	MAXI								
939	271	21.4	MAXI								
942	270.9	21.5	MAXI								
945	270.9	21.5	MAXI								
948	270.9	21.4	MAXI								
951	270.9	21.5	MAXI								
954	270.9	21.5	MAXI								
957	270.9	21.5	MAXI								
960	270.8	21.5	MAXI								
963	270.8	21.5	MAXI								
966	270.8	21.5	MAXI								
969	270.8	21.5	MAXI								

	MUSSELWHITE MINE - G	EOLOGY
Hole:	16-WEL-061	Project: WEL
Mine Grid Easting: 8077.286	Planned Depth(m): 1080	Drill Start Date: 6/26/2016
Mine Grid Northing: 13500.957	Actual Depth (m): 1127.2	Drill End Date: 8/5/2016
Elevation: 4402.323	Core Diameter: NQ2	
UTM East:	Plugged: YES Grout Test: YES Result:BAD	Target 1: X Target 2: X Target 3:
Drill Instructions:		
Collar Comments:		

Τ

Survey												
Depth	Azimuth	Dip	SurveyType									
972	270.8	21.5	MAXI									
975	270.8	21.5	MAXI									
978	270.8	21.5	MAXI									
981	270.8	21.5	MAXI									
984	270.8	21.4	MAXI									
987	270.8	21.4	MAXI									
990	270.8	21.3	MAXI									
993	270.8	21.3	MAXI									
996	270.8	21.4	MAXI									
999	270.8	21.4	MAXI									
1002	270.8	21.4	MAXI									
1005	270.7	21.4	MAXI									
1008	270.75	21.35	MAXI									
1011	270.75	21.35	MAXI									
1014	270.74	21.34	MAXI									
1017	270.74	21. <mark>3</mark> 3	MAXI									
1020	270.73	21.32	MAXI									
1023	270.72	21.31	MAXI									
1026	270.72	21.3	MAXI									
1029	270.71	21.29	MAXI									
1032	270.71	21.28	MAXI									
1035	270.7	21.27	MAXI									
1038	270.69	21.26	MAXI									
1041	270.68	21.27	MAXI									
1044	270.67	21.27	MAXI									
1047	270.67	21.26	MAXI									
1050	270.66	21.25	MAXI									
1053	270.65	21.25	MAXI									
1056	270.65	21.24	MAXI									
1059	270.64	21.23	MAXI									
1062	270.63	21.23	MAXI									
1065	270.63	21.22										
1071	270.62	21.22	MAXI									
1074	270.6	21.21	MAXI									
1074	270.6	21.2	MAXI									
1080	270.59	21.19	MAXI									
1083	270.59	21.18	MAXI									
1086	270.58	21.10	MAXI									
1089	270.57	21.16	MAXI									
1092	270.57	21.15	MAXI									
1095	270.56	21.15	MAXI									
1098	270.55	21.14	MAXI									
1101	270.55	21.13	MAXI									
1104	270.54	21.13	MAXI									
1107	270.53	21.12	MAXI									
1110	270.53	21.11	MAXI									
1113	270.52	21.1	MAXI									
1116	270.51	21.1	MAXI									
1119	270.51	21.09	MAXI									
1122	270.5	21.08	MAXI									
1125	270.49	21.07	MAXI									
1127.2	270.49	21.07	MAXI									

										_		1							1																	
H	MAJ	OR UN	ПТ			MINERALS QTZ VI						VEININ	3		-		FA	BRIC			FOLD						FAULT									
Dept	From	То	Unit	As%	Cp%	Mt%	Po%	Py%	Spec	i ks	Comments	From	То	Туре	vein -	Tex Cont Typ	act Alph e deg	a Comments	From	То	Alpha deg	Int	e	Comments	From	То	Alph a deg	Int T	уре	Comments	From	То	Alph a deg	Int	Туре	Comments
5	0	14.1	4																6.3	6.4	35	MODX	<u>S1</u>													
																			13.5	13.6	85	MODX	<u>S1</u>													
20	14.1	48										14.1	41	CA	5				31.3	26.3	75	MOD MOD	S1)								35.8	38.6	90	WEK	BR	core broken at highly variable angles.

1	6-	W	E	L-	06	1
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MA	JORI	JNIT				MINE	RALS					QTZ	VEI	NING					F	ABRI	с				F	OLD						FAU	LT	
From	То	Unit	As% C	o% Mt	% Po%	% Py%	VG Specks	Comments	From	То	Vein Type	Vein %	Tex	Contact Type	Alpha deg	Comments	From	То	Alph deg	na Int	Тур	Comments	From	То	Alph a deg	Int 1	уре	Comments	From	То	Alph a deg	Int	Туре	Comments
14.1 45	48		0	.5	4 15 5	-		VG at 44.6m	14.1	41	CA	5				ĸ	42.5	42.6	85	MOI	DX S1		47.6	47.7	85	WE K	SFX	folded vein	40.3	42	85	MOD	HZ	
50 48 55	59.6																51.5	51.6	60	MOL)× 51													
55						-			58.9	59.2	QZ	10					63.2	63.3	× 70	XMOE	X S1													
70 59.6	91.5		0.	1	0.5				59.2	91.5	QZ-BL	5					70.5 70.6	70.6 70.7	70 65	MOE	S1 S1													
																	78.5	78.6	85	MOD	×S1		79	79.1	85	MO	F fr	olded vein						

1	6-	W	Е	L-	0	61	l
	•		_	_	v	•	

	MA	JOR U	NIT	-			MINE	RALS					QTZ V	EINING					FA	BRIC					F	OLD						FAUL	т	
Depth	From	То	Unit	As% C	o% Mt	% Po%	Py%	VG Specks	Comments	From	То	Vein Type	Vein % Te	ex Contac Type	t Alpha deg	Comments	From	То	Alpha	Int	Тур	Comments	From	То	Alph a deg	Int	Туре	Comments	From	То	Alph	Int	Туре	Comments
- 85	59.6	91.5		0	.1	0.5				59.2	91.5	QZ-BL	5				90.6	90.7	70	×MOD	SI													
ELE	91.5	92.2	4E			2																												
	92.2	94.4	2U														93.8	93.9	50	MOD	S1)													
- 95 - -	94.4	96.5	3F																															
ELT	96.5	98	4EF																							MO D MO								
FL	98	98.9	4FE			4																	98.5 98.6	98.6	70	MO	ME							
- 100	98.9	99.7	4E																				98.8	98.9	85	D/	FD							
	99.7 103.9	103.9 104.6				5	_										102.2	102.3	40	XMOD	<u>(S1</u>)		102.5 102.6	/ 102.6 102.7	40		ME ME							
-	104.8	106.3	+2K+			5																												
Ē	106.3	106.8	<u>4</u> F			2	-																											
- 110	106.8	11 <mark>0</mark> .7		0	.1	4	0.1																											
- - - - - - - - - - - - - - - - - - -	110.7	126.3				0.5 8 0.5	0.5										111	(111.1)	50	XMOD	S1													
E										118.6	132.4	QZ-BL	10																					

																			10 112	- 001																	
	MAJ	IOR U						МІ	NER	ALS					QT	TZ VE	INING					F	ABR	с					FOL	D					FAI	JLT	
Se Fr	om	То	Unit	As%	Ср%	Mt9	Po	% Py	/% s	VG Specks	Comments	From	То	Vein Type	Vei %	in Tex	Contac Type	t Alpha deg	Comments	From	То	Alph deg	a In	Тур	Comments	From	То	Alp a de	h g In	t Type	Comments	From	То	Alp a de	eg Int	Туре	Comments
- - - - - - - - - - - - - - - - - - -	0.7	126.3					22	101																													
130	6.3	131.8	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				6					118.6	132.4	QZ-BL	_ 10					128.5	128.6	× 85	XINI	S1		128.1 129.2 130.2 130.7	128.2 129.3 130.3 130.8	2 80 3 85 3 85 3 70		ZE ZE ME ME	folded vein						
- - - - - - - - - - - - - - - - - - -	1.8	138.8																																			
140 	8.8	143.5					8					139.1	141.2	QZ	60)																					
- 145 - 145 - 150 - 150 - 155 - 155 - 155	3.5	162.3					0.5							~						143.5	143.6	× 50 × 75	XMOI)× 51))× 51		147.3	147.4	×60 ×75	/MC D /MC D	<pre>FD XSE</pre>							

																		16-WEI	-061																	
																			1												1					
6	MA	JORU					MI	NER			-		Vein	QTZ		ING	Alpha				F	ABRIC	Tun				F	OLD	D					FAUL	T	
Dept	From	То	Unit	As%	Cp% N	At%P	o% Py	y% s	pecks	Comments	From	То	Туре	%	Tex C	Туре	deg	Comments	From	То	deg	a Int	e	Comments	From	То	a deg	Int	t Type	Comments	From	To	Alph a deg	Int	Туре	Comments
-	143.5	162.3	4																160.7	160.8	55	MOD	S1													
-	162.3	163.2	4E				2																													
	163.2	165.8	4																																	
- 16	5					-	_																													
-	165.8	167.3	4E				4																													
	167.3	169																																		
- 17	169	170.5	4E				2																													
- 17	170.5	177.1																	174.0	175	- CO	MOD	60													
-																			1/4.9	1/5	1 60	MOD	50													
-																																				
-																																				
- 18	0 177.1	181.9	2,																																	
-			· · · · ·																																	
																									192.4	192.5	75									
- 18	5																								184	184.1	290	MC	ZE							
E	181.9	190.3																										A								
-						C	.5																		(186.6)	186.7	X 75	D	ME)							
F																												1								
- 19	0																																			
	190.3	192.5	4E																																	
E	100 5																																			
- 19	193.5 5 194.2	194.2 195.5	ew.																						194.7	194.8	65	MC	FD							
E			SUC SUC															-																		
-	195.5	205	4																																	

															16-WEI	061																
_	МА	JORU	NIT			MINE	ERALS					QTZ V	EINING					FA	BRIC					FO	LD					FAUL	.т	
Depth	From	То	Unit	As% Cp%	Mt% Po	% Py%	VG Specks	Comments	From	То	Vein Type	Vein % Te	x Contact Type	Alpha deg	Comments	From	То	Alpha deg	Int	Тур е	Comments	From	То	Alph a deg	nt Type	Comments	From	То	Alph a deg	Int	Туре	Comments
	195.5	205														_200_/	200.1	<u>58</u>	MOD/	<u></u>		200.5	200.6	75 (1	10 FD							
						3										207	207.1	65	MOD	(SI)		206.1	207.2	72 V	VE K ZF	-						
						2																207.8	209.8	70	10 D ZF							
- 21	205	217	4EF			2							~			216	216.1	70	MOD	SI		215.3	215.4	77	VE FD	(Folded vein)	213	213.6	73	MOD	HZ	
22	0 217	223.2																														
					2											222	222.1	58	MOD	S1												
22	5 223.2	226.2																														
- 23	226.2 D	232.1	4EF		1	1	-									230	230.1	65	WEK	<u>S1</u>)												
- 23	5 232.1	242	4BF		2	-										239	239.1	62	MOD	SI		_232.8	233.3	68 N	D ZF		232.8	234.1	77	INT	HZ	Strongly deformed area

16-WEL-0	61
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	MA	JOR U				N	INEF	RALS					QTZ VE	INING					FA	BRIC					FC	DLD				1	FAULT	г	
Depth	From	То	Unit	As% Cp%	% Mt%	Po%	Py%	VG Specks	Comments	From	То	Vein Type	Vein % Tex	Contact Type	Alpha deg	Comments	From	То	Alpha deg	Int	Тур	Comments	From	То	Alph a deg	Int Ty	e Comments	From	То	Alph a deg	Int	Туре	Comments
	232.1	242	4BF																				242	242.3	70	MOZ							
- 24	242	246.3	4B			2											245	245.1	43	MODX	SI							243.6	244	70		HZ	
																						5									100		
																	248	248.1	38		S1)		247.2	248.4	63	D Z		247.6	<u>248.1</u>	45	E	HZ	
- 25	5																254	254.1	60	MODX	<u>S1</u>												
																							257.7	257.9	73	MOE	D						
- 26	0																259	259.1	78	MOD	<u>S1</u>												
	246.3	276.6	4B														261	261.1	(40)	MOD	<u>S1</u>		259.9	266.2	70	INT M	-						
- - - 26	iδ																264	264.1	(40)	MODX	<u>S1</u>			200.2	10								
						4																					-						
- 27	'D																						267.1	270.2	77		-						
1 1 1 1																	271	(271.1)	(_65)	(MOD)	<u>(S1</u>)		271	271.8	72	MO S	-						
27	5					3											274	274.1	87	MOD	<u>S1</u>												
	276.6	277.2	+ 2K			2											278	278.1	80	MOD	S1												
-	277.2	283	48-																				279	279.7	75	MO S	-	279	279.7	75	MOD	НZ	

																		16-WEI	061																	
MAJOR UNIT MINERALS												QTZ	VEININ	3					F	ABRI	с				F	DLD						FAUL	.т			
Depth	From	То	Unit	As% Cp% Mt%	% Po%	Py%	VG Specks	Co	mments	Fr	rom	То	Vein Type	Vein % T	ex Con	act Alj e di	pha eg	Comments	From	То	Alph deç	^a Int	Тур е	Comments	From	То	Alph a deg	Int Ty	pe	Comments	From	То	Alph a deg	Int	Туре	Comments
-	277.2	283	4B		2																				280.9	281.5	85	WE F	D							
- 28	283 5 284.6	284.6 285.1	€] + 2K																283	× 283.	1 <u>× 67</u>	XWE	KK S1													
-					5	-									č.				287	287.	1 78	MO	D S1		286	286.7	88	MO F	D							
- - - - -	285.1	297.1	4B																						288.9	290.6	80	MO D F	D							
					2 4 1 3	2													293	293.	1 73	MO	D S1													
- 29	297.1	298.6	4A		1 3 8																										296.4	298.1	60	MOD	HZ	
- - - 30	⁾ 298.6	301.8	48		2														300	300.	1 69	MO	D S1													
					3																				301.4	302.2	70	K F	D							
30	5				5														306	306.	1 52	MOI	D S1		307.3	307.6	90	WEF	D							
)				8	2													308	308.	1 68	MOI	5 S1		309.4	309.7	80	WE E	D							
	301.8	320.9	4A		2																				312.6	312.9	80	WE F	D		307.4	317.2	45	MOD	HZ	
- 31	5				1														315	315.	40	MOI	51) S1)													
					10																															

	MA	JOR U	TIN				M	IINEF	RALS					QTZ VI	EINING					F	ABRIC	;					OLD					FAUL	т	
Depth	From	То	Unit	As%	Cp% I	Mt% F	Po% F	Py%	VG Specks	Comments	From	То	Vein Type	Vein % Tex	Contact Type	Alpha deg	Comments	From	То	Alpha	Int	Тур	Comments	From	То	Alph	Int Typ	e Comments	From	То	Alph	Int	Туре	Comments
-	301.8	320.9	4A				10																											
	220.0	228.0																322.2	322.3	57	XMOD	S1		322	322.2	90	WE FI							
5		020.0																											324	327.8	52	WEK	ΗZ	
	30																	329 330	329.1 330.1	× 75 × 77	XWEK XWEK	S1 S1		329.6	329.9	87	WE FI							
	95 90 328.9	353.6	δ δ δ δ δ δ δ δ δ δ δ δ δ δ δ δ δ δ δ	1														339	339.1	× 75	XWEK	×S1												
34	65 50																	348	348.1	× 67	XWER	XS1												
3	353.6 5 354.2	354.2 391.1	4B			_	3											357	357.1	70	XWEK	×S1							356.5	357.1	70	MOD	HZ	

																	16-WEI	-061																	
	MA							PALS		_			017		NG					EA	BBIC					FC							EALU		
Depth	From	То	Unit	As% Cp	% Mt%	Po%	Py%	VG	Comments	From	То	Vein Type	Vein %	Tex Co	ntact	Alpha deg	Comments	From	То	Alpha	Int	Тур	Comments	From	То	Alph	Int T	ype	Comments	From	То	Alph	Int	Туре	Comments
	65																	361	361.1	63	WEK?	S1)													
3	70																	367	367.1	58	WEK	SI		368	368.7	82	VE F	Đ							
3	75 354.2 80	391.1																375	375.1	60	WEK	S1 S1		377.8	378	90 1	VE F	Ð,							
- 31	35 90					1												<u>387</u> <u>391.1</u>	387.1	57	MODX	S1)		390.1	390.4	90 1	VE F	Đ							
- 39	391.1 5 394.7 395.1 396.5 397	394.7 395.1 396.5 397 397.9	4E 4E 4E 4E 4E 4E			4 2 3				391.1	397.9	QZ-C A	65					396	396.1	(47)	MODX	S1		<u>396.2</u> <u>397</u>	<u>396.6</u> 397.3	78 V 83 A		افاف		391.1	397.9	52	INT	SZ	Intense shearing with strong alteration
	397.9	409.4	2.															398	398.1	(70)	WEK	S1		397.9	398.1	90	K / E	D		397.9	399	67	MOD	ΗZ	

_	MA	JOR U	NIT				M	IINE	RALS					QT	Z VE	INING					FA	BRIC	;				F	OLD					FAU	LT	
Depth	From	То	Unit	As% C	¢p% №	At% P	'o% I	Py%	VG Specks	Comments	From	То	Vein Type	e %	Tex	Contact Type	Alpha deg	Comments	From	То	Alpha deg	Int	тур	Comments	From	То	Alph a deg	Int Ty	pe Commen	s Fron	то То	Alp a de	ng Int	Туре	Comments
40	5 397.9	409.4	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2																405	405.1	70	XMOD	XS1)												
- 41	5																		414	414.1	×70	XWER	XS1)												
44	5 409.4	510.4																	424	424.1	× 72	XMOD	XS1							409.	462.	1 67	7 INT	ΗZ	Intense shearing with qtz replacement and elevated alt
4	δ																		435 436 438	435.1 436.1 438.1	× 62 × 58 × 57	WEK WEK	S1 S1 S1		435.4	435.5	5 90 6 90	WE F	D						

																		16-WE	L-061																	
							MIN		<u> </u>						077				1						T						1					
5	MAC								VG			-	-	Vein	Vein	Contac	Alpha		-	_	Alpha	ABRIC	; Tvn		FOL			OLD				1	Alah	FAU	LT	
8 -	rom	10	Unit V V V	AS% C	p% M	1% P0	% Py	[%] Spec	cks	Commen	(S	From	10	Туре	%	ex Type	deg	Comments	From	То	deg	Int	e	Comments	From	То	a deg	Int	Туре	Comments	From	То	a deg	Int	Туре	Comments
- 445 - 445 - 445 - 450 - 455						1													447	447.1	× 35	MOD	×S1								409.4	462.1	67	INT	HZ	Intense shearing with qtz replacement and elevated alt
- - - - - - - - - - - - - - - - - - -	109.4	510.4							Nu sm of g in a wit	merous all patches gold specks a qtz-crb ve h dark and h dark and ht veining	s ein	455.6	459.8	QZ-C A	80			/ Qtz-crb veining with milky and glassy qtz phases present and VG between 456.6-457.1 m	462	455.1	43	WEK .	(SI)								~					
465												469.6	476.6	QZ	15				470	470.1	62	WER	(S1)								469.6	473.5	38	MOD	sz	Strong shearing with elevated alt and qtz replacement Elevated strain
475																			476.1	476.2	57	MODX	S1)			170 0		WE	-		473.5	476.1	60	E	HZ	throughout area
-												476.6	477.4	QZ	35				477	477.1	50	WEK	S1)		477.8	476.6	90	WE	FD		476.1	478.1	65	INT	SZ	sheared with strong alteration and
F			, , , , , , , , , , , , , , , , , , ,									478.5	480.3	QZ	15				479.8	479.9	75	WER	SI													Are replacement/

	MA	JOR U	TIV				MIN	ERALS					QTZ	VEINING	6		FABRIC								F	DLD		1	FAULT								
Depth	From	То	Unit	As%	Cp% M	t% Pos	% Py%	VG Specks	Comments	From	То	Vein Type	Vein % T	ex Conta Type	ct Alpha deg	Comments	From	т	o Alph	a Int	Тур	Comments	From	То	Alph a deg	Int Type	Comments	From	То	Alph	Int	Туре	Comments				
- 48	85									478.5	480.3	QZ	15 45				480.5	48(0.6 67 3.1 77	, XMOE XWEF	S1		480.9	481.3	90	WE FD											
- 49	əb									488.4	491.6	QZ	10				492	× 49:	2.1 63	WEł	SI																
-									3	493.3	494	QZ	85																			-					
- 49	- 495 409.4	510.4								496.5	502	QZ	20				500	× 500	0.1 62	WE	XS1							493	501.5	65	MOD	ΗZ	Elevated strain and some veining throughout area				
50	05									508.4	510	QZ	30				510																				
	510.1	510.5	QTZ														210		0.1 00	VVEr	ASL								510		MOD						
5	510.4 513.5	514.2	VN *_2,*														514.2	514	4.3 78		S1		513.4 513.9	513.6 514.2	90 90	WE K WE FD		511.5	512	- 6/	Ē	HZ					
	514.2	518.3	4A			6											516 517	510	6.1 5 7.1 33	MOL	S1 S1		515.8	516.4	90	MO D FD		514.7	518.3	35	MOD	НZ	High strain with folding throughout 4A unit				
	518.3	529.1	<u>,</u> 2,~				1										519	519	9.1 60	WE	S1		518	518.3	90	DFD											
																			16-WE	061																	
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	MA	JOR U	NIT				N	AINE	RALS	;					QTZ	Z VE	INING					FA	ABRIC					F	OLD						FAUL	.T	
Depth	From	То	Unit	As%	Cp%	At% P	0% I	Py%	VG Speck	s	Comments	From	То	Vein Type	Vein %	Tex	Contact Type	Alpha deg	Comments	From	То	Alpha deg	Int	Тур е	Comments	From	То	Alph a deg	Int Ty	pe Comme	nts	From	То	Alph a deg	Int	Туре	Comments
	518.3	529.1	, , , , , , , , , , , , , , , , , , ,									520.6	523	QZ	15	-																					
- 530																				527	527.1	45	WEK	(S1)													
- 535	529.1	538.3																		533	533.1	50	XWER	(S1)								534.7	535.9	62	MOD E	HZ	
	538.3	542.9	> > <td></td> <td></td> <td></td> <td>•</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>u.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>542</td> <td>542.1</td> <td>55</td> <td>XWEK</td> <td><u>(S1</u>)</td> <td></td>				•							u.						542	542.1	55	XWEK	<u>(S1</u>)													
- 545 							3 5 3 7 5													546	546.1 547.7	(40) (5)	XMOD XMOD	(S1) (S1)		546.4 547.9 548.5	547.4 548.1 549	90 90 90	MO NE KE	F	_	544.3	546.9	58	MOD	нz	
- 550 	542.9	557.3	4A				8 5 1 4													550.7	550.8 552.7	23 18	XMOD XMOD	(S1) (S1)		549.6 550.4 552.4	<u>550.1</u> 550.8 552.9	50 90 87	K MO D F								
	557.3	580	· · · · · · · · · · · · · · · · · · ·				4																									557.3	562.1	60	INT	SZ	Strongly sheared mafic at start of unit

																				1	6-WEI	-061																	
	MA		INIT				M	INFI	RAIS									EINING				1		EA				1										-	
Depth	From	То	Unit	As%	Cp% I	At% F	0% F	y%	VG	. (Comme	ents	From	То	V T	ein V	vein % Tex	Conta	t Alph	a Co	omments	From	То	Alpha	Int	Тур	Comments	From	То	Alph	Int	Туре	Comments	From	То	Alph	Int		Comments
																		.,,,,				560	560.1	58	MOD	S1/				auey				557.3	562.1	60	INT	sz	Strongly sheared mafic at start of unit
	70 557.3 75	580																				570	570.1	52	XMOD>	(S1)													
	10																					579	579.1	68	WEK	(S1)													
	35			1			3 2 2			ASI	olebs ociated	with										581	581.1	53	XMOD	<u>(S1</u>)		580	580.6	90		FD							
							2			\loca	lly											586	586.1	47	MOD	S1		588.7	589.3	90	MO	FD							
- 59	580	600.8	48			+	_															590.4	590.5	25	MOD	(S1)		<u>590</u> 591,4	590.4 592	85	WE	FD							
59	95						2 3 1 3															594 595.4 596.9	594.1 595.5 597	0 40 35	XMOD XMOD XMOD	(S1) (S1) (S1)		592.7	592.8	87	K K	FD							

																					16-WEI	-061																		
													1									1																		
	MA	Jor u	NIT				_	MINE	RALS	3					-	C	TZ V	EINING					1	F	ABRI	IC	_				-	FOLI)					FAU	LT	
F	rom	То	Unit	As%	Cp%	Mt% F	Po%	Py%	VG Speck	s	Comment	ts	From	То	Ve Ty	ein V /pe	^{eln} Te	x Conta Type	ct Alp de	ha g	Comments	From	То	Alpha	^a Int	t Tyj	^p C	Comments	From	То	Alpl a de	g Int	Туре	Comments	From	То	Alph a deg	Int	Туре	Comments
	580	600.8	4B			F	3																																	
6	8.00	603	4A																																					
			· , * , * .																			603	603.1	62	MO	D S1	1													
605																																								
Ē			, , , , , , , , , , , , , , , , , , ,																																			5		
- 610																																								
E			· · · · ·																			612	612.1	55	MOI	D S1	1													
EI e	603	624.9	2																																					
615			***																																					
-																																								
F			· · · · · ·																																					
E																																								
620																																								
			(621	621.1	X 50	MOI	DX S1	17													
-																																								
620	24.9	625.9	4B				6															625.5	625.6	47	MOL	D S1														
6	25.9	626.3 626.8	-4B-				12																									WE								
- 6	26.8	628.2	13																			628.2	628.3	62	MO	DX S1			628.1	628.2	V 90	WE	ED					MOD		
	28.2	628.8	4 D			t	10																						020.0	020.5	10	<u> </u>			628.2	628.8	62	E	HZ	
630	28.8	632.5	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~																																					
-																																								
E																																								
F			· · · · ·	ŀ		F			1																															
630	00.5	0.47.0	· · · · · · · · · · · · · · · · · · ·										000 5	0.40		DI I					veins typically																			
E 63	32.5	047.3	· · · · ·		0.5		1	0.1					632.5	046	QZ.	BL	4				folded or boudinaged.	636.5	636.6	× 65	MOL	DX S1	D													
E			***																																					
F			· · · · · ·																																					

16-WEL-06	1
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I	MAJ	OR U	NIT				1	MINE	RALS					QTZ V	EINING					F	ABRIC	;					FC	OLD					FAU	LT	
Frc	om	То	Unit	As%	Cp%	Mt%	Po%	Py%	VG Specks	Comments	From	То	Vein Type	Vein % Te	ex Contac Type	t Alpha deg	Comments	From	То	Alpha deg	Int	Typ e	Comments	From	т	ō	Alph a deg	Int Ty	e Comments	From	То	Alph a deg	Int	Type	Comments
- 632 - 632 - 645 	2.5	647.3			0.5	-	1	0.1			632.5	646	QZ-BI	- 4			veins typically folded or boudinaged.	644.2 645.1 645.3	644.3 645.2 645.4	65 55 50	×MOD ×MOD	S0 S1 S1		645.5	× 64!	5.6	80	MO S	viregualarly folded vein	>					
650 	7.3	665.1																656.5	656.6	× 60	×MOD	×S1													
665	5.1	668.9	+ + + + + + + + + 2 K + + + + + + + +															665.5	665.6	65	XMOD	×S1													
- 666 - 675 	3.9	680.4									679.6	679.8	07	v10				675.7	675.8	70	×MOD	×S1													

																		16-WEI	061																	
	MA.						N	AINE	BALS					0		FINING			1		FA	BRIC			1		F				1			FAIII	т	
Depth	rom	То	Unit	As%	Cp%	Mt% P	0%	Py%	VG Specks	Comments	From	То	Veir Type	n V	ein % Te	Contac Type	t Alpha deg	Comments	From	То	Alpha deg	Int	Тур е	Comments	From	То	Alph a deg	Int 1	Гуре	Comments	From	То	Alph a deg	Int	Туре	Comments
	568.9 580.4 581.1	<u>680.4</u> 681.1 688.8									681.2	681.5	5 QZ		0			vein appears to have been brecciated and re-cemented with multiple generations of qtz																		
- 690 - 690 - 695 - 695 - 695 - 6	588.8	703.2	48			().5												695	695.1	15	MOD	(S0)		690.5	690.6	×75>	MO	FD		689.2	689.3	90		BC BC	
																			703	703.1	65	MOD	S0)													
710	03.2	719.6																	711.5	711.6	55	MOD	(S1)													

										1																									
MA	JORL	JNIT			м	INER	ALS				1	1	QT:	Z VEI	NING		1		-	F	ABRIC			-		FC	LD						FAUL	т	
From	То	Unit	As% Cp%	Mt% F	20% P	°y% s	VG Specks	Comme	ents	From	То	Vein Type	Vein %	Tex	Contact Type	Alpha deg	Comments	From 720.6	To 720.7	Alpha deg 10	Int MOD	Typ e S0	Comments	From	То	Alph a deg	Int Ty	rpe Co	omments	From	То	Alph a deg	Int	Туре	Comments
- - - - - - 725 - - 719.6	731.7	48																724.3 725	724.4 725.1	15 0	XMOD XMOD	S0 S0													
730				-	0.5													728.6	728.7	60	XMOD	<u>S0</u>													
- 735 - 740 - 740 - 745 - 745 - 731.7	809.8																	740.2	740.3	× 50	XMOD	S1)		744.9	745	×85 <	MOVE	D							
- 750 																		754	754.1	65	MOD	× <u>so</u> >		754.5	× 754.6	×85	MO	NE)		750.9	760.0	10	WEK	DD	

																16-WEI	-061																	
	MA	JOBU	NIT				MINE	RALS					QTZ	VEINING	_				FA	BRIC					F	OLD					_	FAUL		
Depth	From	То	Unit	As% Cp	% Mt%	Po%	Py%	VG Specks	Comments	From	То	Vein Type	Vein -	Tex Contac Type	t Alpha deg	Comments	From	То	Alpha	Int	Тур е	Comments	From	То	Alph a deg	Int Ty	pe Co	omments	From	То	Alph a deg	Int	Туре	Comments
	70 70 70 70 70 70 70 70 70 70 70 70 70 7	To		As% Cp	% Mt%	• P0%	Py%	VG Specks	Comments	From 772.2 773.1	802.4	QZ QZ	1	Tex Contac Type	t Alpha deg	Veins have been attenuated into groups of ovoid lenses	763.8	To 763.9	60 60	MOD	Typ e S0	Comments	7788.5	To 7772.3	Alph A deg 55 85	MO D MO D MO MO MO MO	De Co Tolda Vein	deded ns	From 759.8	To 760.9	Alph a deg 40	Int WEK	Type BR	Comments
7	95																												798.3	799	75	MOD	BR	

1	6-	W	Ε	L-(D	6	1
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	MA		NIT				М	INER	ALS					QTZ	VEIN	IING					FA	BRIC					F	OLD						FAU	LT	
Depth	From	То	Unit	As%	Cp% M	t% Po	% P	y% s	VG Specks	Comments	From	То	Vein Type	Vein %	Tex C	ontact Type	Alpha deg	Comments	From	То	Alpha deg	Int	Тур е	Comments	From	То	Alph a deg	Int	Туре	Comments	From	То	Alph a deg	Int	Туре	Comments
											773.1	802.4	QZ	1				typicall folded. chlorite selvedges.							802.2	802.3	V 85	MO	ZE							
											802.4	802.8	QZ	40				barren	1						802.3	802.4	190	MO	ME							
- 805	731.7	809.8	2																804.9	805	55	MOD	S1)													
-																																				
- 810																															809.8	809.9	40	MOD	HZ	
	809.8	810.9	-48-																810.8	810.9	35		(S0)													
-	010.0	012.0				5																														
-																																				
-																																				
- 820																			820.7	820.8	45	MOD	S 1													
-																																				
- 825																																				
-	812.5	867.5	2															occasional	826.8	826.9	55	MOD	S1													
-											816	861	A	3				chlorite selvedges.			1															
- - 830 -																			830.7	830.8	65	MOD	C1													
-						0.	5												0.00.1	050.0	05	WOD					-									
			· · · · · · · · · · · · · · · · · · ·																																	
- 835						-	_																													
-																																				
-																									837.5	837.6	80	MO D	FD							
-			· · · · ·																																	

Image:																																						
Image: Normalize and Section 2000 and Secti	N	MAJ	OR U	NIT					MIN	IERA	LS					Q	TZ VI	EINING					FA	ABRIC	:				F	OLD						FAU	LT	
	Fro	m	То	Unit	As%	Cp%	Mt%	Po%	Py	% Sp	/G ecks	Comments	From	То	Vein Type	Ve 9	ein % Tex	Contac Type	t Alpha deg	Comments	From	То	Alpha deg	Int	Тур	Comments	From	То	Alph a deg	Int 1	ype	Comments	From	То	Alph a deg	Int	Туре	Comments
	812 50	2.5	867.5					0.5		sp	ecks		816	861	QZ-C A		3	Type	deg	occasional chlorite selvedges.	(B59.7)	× 841.5 × 859.8	65 70	×MOD	si Si		(844.7)	844.8	a deg	MO	FD.							
877.9 893.2 V 2 V	867	2.5	877.9																		863	877.7	65	XMOD	(S1) (S1)								870	872.6	50	MOD	BR	

L	MA	JOR U	NIT		_	N	INEF	RALS					QTZ	VEIN	NING					FA	BRIC					F	OLD						FAU	.т	
Depth	From	То	Unit	As% Cp	% Mt%	Po%	Py%	VG Specks	Comments	From	То	Vein Type	Veln	Tex	Contact Type	Alpha deg	Comments	From	То	Alpha	Int	Тур	Comments	From	То	Alph	Int T	ype	Comments	From	То	Alph	Int	Type	Comments
8	877.9	893.2										.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			886	886.1	55	MOD	e				a deg		7				a deg		. The	
8	893.2 00	899.3	44			2																													
	899.3	906.2	$\langle \cdot, $															901.6	901.7	70	MOD	S1)													
-	906.2	908.5	4B			2																													
9	908.5	911	4FB			5																		909.5 909.9 910.5	909.6 910 910.6	60 80 85	MOMOM	D D D							
9	911 918.4	918.4 923	48			2																													

														16-WEI	061																
MAJ	OR UNIT			MINE	RALS					QT	Z VE	INING					FA	BRIC					FC	DLD					FAUL	.T	
From	To Uni	t As% Cp% I	Mt% Po	% Py%	VG Specks	Comments	From	То	Vein Type	Veir %	ⁿ Tex	Contact Type	Alpha deg	Comments	From	То	Alpha deg	Int	тур е	Comments	From	То	Alph a deg	Int Ty	e Comments	From	То	Alph a deg	Int	Туре	Comments
918.4	923 481																				920.6	920.7	×90		Ð						
- 925 923	927.8 4B																				923.9 924.2	924 924.3	85 80	MOVZ D FI MO D							
- 930 927.8	935.7 4B																				930.2	930.3	×85	MO D SI	Ð						
- 935 935.7 - 940	941		3													÷.					936.6 936.7	936.7 936.8	90 90 90	MO SI D FI MO D	6						
941	945.4 4BF		5												943	943.1	60	MOD	50>		943	944	90	INT F							
-950 945.4 -955	965.3														952.6	952.7	75	MODX	<u>.50</u>		950.5	950.6	85	NO D FI	C						
															958.8	958.9	80	MODX	S1							956.5	965.3	80	INT	ΗZ	

																16-WEI	-061																	
	MA	JORL	INIT			MINE	RALS					(INING					FÆ	BRIC					F)					FAUI	т	
Depth	From	То	Unit A	As% Cp%	Mt% Po	% Py%	VG Specks	Comments	From	n To	o V Ty	ein \ ype	Vein % Tex	Contact Type	t Alpha deg	Comments	From	То	Alpha deg	Int	Тур е	Comments	From	То	Alph a deg	Int	Туре	Comments	From	To	Alph a deg	Int	Туре	Comments
	945.4	9 <mark>6</mark> 5.3	48-																				962.9	963	85	XINT	ME		956.5	965.3	80	INT	ΗZ	
9	965.3 70 75	967	* 2K + 2K +																				970.7	< 970.8 973.6	3×80 3×80	XINT	ZF XMF							
9	967 189	989.7	- 48F														985.1	975.3	× 35 × 40	×MOD>	(50)		981.5	₹981.€	3 90	XINT	×FD>							
9	989.7 989.7 95	994.2															992.5	992.6	40	MOD	(S0)								993.5 993.9	993.6 994	¥ 35 90		BR	
	994.2	1003.2	4BF																				998.9	999	85	MO	FD							

																						16-WEL	-061																	
	MA	JOR U	NIT				1	MINE	RAL	S							QT	Z VE	INING						F.	ABRIC	;				F	OLD						FAUL	T	
field F	rom	То	Unit	As%	Cp%	Mt%	Po%	Py%	VG Spec) cks	Com	ments	Fr	rom	То	Veir Typ	n Vei e %	ⁿ Tex	Contae Type	t Alph deg	ha g	Comments	From	То	Alpha deg	Int	Тур е	Comments	From	То	Alph a deg	Int	Туре	Comments	From	То	Alph a deg	Int	Туре	Comments
9	94.2	1003.2	4BF																				1002.7	1002.8	3 70	MOL	SO													
	003.2	1012.4	3P																																					
- - - - - - - - - -		18					4																1013	1013.1	80 63	XMOD XMOD	(S1) (S1)		1012.5	1012.8	3 <u>85</u> 488	WE MO	FD							
- 10 - 1020)12.4	1024.3	4B				2 1 2 3																1022	1022.1	60	XMOD	×S1		1016.2	1021	85	INT	FD		1013.6	1022.3	60	MOD	ΗZ	
- 1029 () - 1020)24.3)25.7	1025.7					2																(1026) (1028)	(1026.1	<u>43</u> 37	×MOD ×MOD	XS1 XS1		1026	1027.1	90	MO D	MF							
- 10 - 10 - 1035_ - 10 - 10)30.9	1035.2	48F 48				3																1035 1036.6 1039	<1035.1 (1036.7 (1039.1	× 56 × 0 × 50	×MOD ×MOD	×S1) ×S1) ×S1)		1036.1	1038.5	5 87	MOD	FD							

1	6-	W	Ε	L-	0	6	1
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	MAJ	IOR U	TIN			М	INER	ALS					QTZ	VEINING	à				F	ABRIC					FC	DLD					FAUL	т	
Depth	From	То	Unit 4	As% Cp%	Mt%	Po% F	y% s	VG Specks	Comments	From	То	Vein Type	Vein % T	ex Conta	e Alph	a Comments	From	То	Alpha deg	Int	туре	Comments	From	То	Alph a deg	Int Ty	pe Comments	From	То	Alph a deg	Int	Туре	Comments
	1035.2	1044.5	48-			2											1042	1042.1	42	XMOD	S1)		1040.9 1041.9	1041.6 1042.1	90 90	MO F WE Z K	D E						
- 10	45					4											1047	×1047.1	32	MOD	S1)		1044.5	1045.1	82	D Z	F						
	1044.5	1062	4BF														1052	1052.1	43	MOD	SI		1052.7	1054.1	90	MO F	D	1051.7	1053.5	43	MOD	HZ	
- 10	55																1053.7	1053.8	37	MOD	S1												
																							1056.1	1057	87	MO F	D						
																	1060	×1060.1	50	XMOD	×S1>												
- - - - - - - - - - - - - - - - - - -	1062	1070.3	4B			1 4 1 3											1070	1070.1	63	MOD	×S1												
	1070.3	1074				2																											
	1074	1078.1	4EA														1079	1079.1	66	MOD	×S1>					WE							

																IO-WEI	-001																	
MA	JORL	JNIT			MINE	RALS						QT	Z VEI	NING					FA	ABRIC	;				FC	LD						FAUL	.т	
From	То	Unit	As% Cp% Mi	t% Po%	6 Py%	VG Specks	Comm	ents	From	То	Vein Type	Vein %	Tex	Contact Type	Alpha deg	Comments	From	То	Alpha deg	Int	Тур е	Comments	From	То	Alph a deg	Int Ty	pe Com	nments	From	То	Alph a deg	Int	Туре	Comments
1078.1	1084.9	4EA		2 5 2 4																			1082.6	1084.2	88	MO D F	D		1081.3	1084.9	70	MOD	HZ	
1000																	1087	× <u>1087.1</u>	62	WEK	S1)													
1084.9	1096.6			2	-																													
1095				1	-							6					1096.4	1096.5	60	WEK	XS1)													
1100 1096.6	1104.9	4EF		2	-												1101	1101.1	67	XMOD	XS1)													
1105																							1107.6	1108	90	NO F	D		1106.7	1109.4	65	MOD	SZ	High strain with qtz-crb stockwork alt throughout 3F.
1110	1127.2	3F.															1110	1110.1	63	MOD	(SI)								1109.4	1112	65	INT	SZ	Sheared 3F with qtz-crb stockwork alt throughout.
1115																													1112	1119	67	MOD	нz	High strain with qtz-crb stockwork alt throughout 3F.
																	1119	1119.1	62	MOD	SI								1110.0	1100.0	60	WEK	Meth	Werak meth with red vstaining and

	МА	JOB U	NIT	T			N		RALS						INING					EA	PDIC					50	D				-			
5	_	_	Ι				Ï		VG				Voin	Voin	Contact	Alpha				Alasha	DRIC	Tur				FUI					1	FAUL	.1	
deg	From	То	Unit	As%	% Cp%	6 Mt%	Po%	Py%	Specks	Comments	From	То	Туре	% Tex	Туре	deg	Comments	From	То	deg	Int	e	Comments	From	То	a deg	nt Type	Comments	From	То	Alph a deg	Int	Туре	Comments
F							K	2																					1119.9	1120.3	63	WEK	Meth	Werak meth
-			2.41																										1120.3	1123.1	65	MOD	Fault	vstaining and
F			1.1																													E	/Meth	Shearing with
F	1104.9	1127.2	3F																										1123.1	1123.4	68	WEK	ane Fault/	qtz-crb stockwork alt
-11	25		12.00																															throughout. Red staining
EL			1250													1													1123.4	1127.2	65	INT	BC	Badly brecciated with
E			100																															crb infill abd
E																																		staining. Could
E.																																		fault system?
- 11	80																																	
-																																		
L																																		
F																		•																
F																																		
- 11	85																	<u> </u>																
E																																		
E																																		
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E	10																																	
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-11	50																																	
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-11	55																																	
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				MAJOR UNIT			MINOR UNIT							ALT	ERA		N
From	То	Unit Co	Text	Comments	Comments	Unit	Comments	Bio	Ca	ar	Chl	Gru	H	em	Ser	Si	Comments
0	14.1	B	POR BL	Porphyroblastic biotite garnet schist. 2-5cm bands of garnet-amphibole are observed to be folded across the path of the drill hole. Fold axis are highly variable but typically very shallow to the core axis.	Traces of PO are observed throughout as fine grains to medium blebs disseminated in the groundmass. The fabric is strongly deformed but often indiscernible as the rock does not preserve strain well.												
14.1	48		FOL	Fine grained, dark green mafic metavolcanic. Weakly to moderately biotite altered. Biotite grains are preferentially oriented at a steep angle to the core axis. 5-25mm carbonate veins are abundant, 2-10 per meter.	Blue-grey qtz veins increase in abundance down hole of 35m from 1/m to 3-5/peter. Intensely mineralized below 43m (see min tab). The largest carbonate veins contain small qtz lenses.												

					MAJOR UNIT			MINOR UNIT						AL	TER	ATIC	N	
From	То	Unit	Col	Text	Comments	Comments	Unit	Comments	Bio	Ca	ar C	Chl	Gru	Hem	Ser	Si	Commer	nts
14.1	48	2	DG	FOL	Fine grained, dark green mafic metavolcanic. Weakly to moderately biotite altered. Biotite grains are preferentially oriented at a steep angle to the core axis. 5-25mm carbonate veins are abundant, 2-10 per meter.	Blue-grey qtz veins increase in abundance down hole of 35m from 1/m to 3-5/peter. Intensely mineralized below 43m (see min tab). The largest carbonate veins contain small qtz lenses.												
48	59.6		G	FOL	Fine grained, mesocratic grey, ultramafic intrusive unit. Moderately foliated at a moderate angle to the core axis. Weakly soapy tactility. Weak silicification is discernable on fresh surfaces.													
59.6	91.5		DG	FOL	Fine grained, dark green, mafic metavolcanic. Weakly to moderately biotite altered throughout. Biotite grains display a preferential but variable orientation at a high degree to the core axis. 5-15mm steel blue qtz veins 3-8 per meter.	Veins often contain a carbonate selvedge and fine grained PO with lesser CPY. Veins are at variable but typically high angles to the core axis, occasionally veins are tightly folded. Intensely veined upper contact.												

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					MAJOR UNIT			MINOR UNIT					,		RATI	NC
From	То	Unit	Col	Text	Comments	Comments	Unit	Comments	Bio	Car	Chl	Gru	J He	m Se	er Si	Comments
59.6	91.5		DG	FOL	Fine grained, dark green, mafic metavolcanic. Weakly to moderately biotite altered throughout. Biotite grains display a preferential but variable orientation at a high degree to the core axis. 5-15mm steel blue qtz veins 3-8 per meter. Strongly foliated garnet amphibole iron formation. Moderate carbonate alteration displays a patchy habit. 1-5 sub cm blue-grey qtz veins. 2-5cm bands of biotite-garnet schist. Wisps and medium grained blebs of PO, 1-2% modal abundance. Strongly foliated, strongly biotite altered, garnetiferous mafic metavolcanic. 15% medium grained garnet porphyroblasts. of then in a state of advanced retrograde metamorphism. 1-15 tightly folded carbonate veinlets per	Veins often contain a carbonate selvedge and fine grained PO with lesser CPV. Veins are at variable but typically high angles to the core axis, occasionally veins are tightly tolded. Intensely veined upper contact.										
91.5	92.2	4E	DG	FOL	meter. Mesocratic grey to melanocratic brown felsic lapilli tuff, 3-5%											
92.2	94.4	2U	в	FOL	garnet porphyroblasts, typically medium grained, rarely coarse. Moderate to intense sericite alteration throughout. 1-5cm carbonate veins present at a rate of 2-4 per meter. Strongly foliated garnet amphibole iron formation. Moderate	biotite occurs as fine grained elongate books preferentially aligned to the foliation.										
94.4	96.5	3F	G	FOL	carbonate alteration displays a patchy habit. 1-5 sub cm blue-grey qtz veins. Folded 2-5cm bands of biotite-garnet schist crosscut the unit at a low angle to the core axis.	Maria blaka and										
96.5	98	4EF	DG	POR BL POR	In the community compared on the source of the second of the source of t	Wisps blebs and stringers of PO, 2-3% modal abundance.										
98	98.9	₽4₽E	В	BL	poorly developed. Strong gtz veining with associated											
99.7	103.9		в	FOL	occurring as disseminated blebs. Strongly foliated clastic metasedimentary unit. Abundance of garnet porphyroblasts is locally variable ranging from 5-20%. No observed mineralization. Strongly biotite altered. Porphyroblastic biotite garnet schist. 10-15, ~1cm planar qtz											
103.9	104.6	AF	B	BL	Moderate staurolite alteration observed throughout the biotite											
104.6	105.3	4E	DG	BA	groundmass as distinct buff colored grains.											
105.3	106.3	4F	DG	BA	formation. Modal abundances of the constituent mineral											
106.8	110.7		В	FOL	priases ranges greatly between 5-10 cm compositional bands. Abundant fine grains and stringers of PO throughout, 2-4% Fine grained, dark green, mafic dyke. Sharp contacts, dominantly featureless Moderately well banded amphibole garnet chert iron formation. Modal abundances of the constituent mineral phases ranges greatly between 5-10 cm compositional bands. Abundant fine grains and stringers of PO throughout, 2-4%	Intermittent zones of significant PO mineralization comprise ~50%. Mineralization is associated with tightly folded opaque white to blue-grey qtz veins.										
110.7	126.3	2	DG	FOL	Fine grained, melanocratic brown clastic metasedimentary unit. Approx. 50% of the unit is pervasively carbonate altered. The unit is strongly foliated at a moderate degree to the core axis. Fine grained, strongly foliated, mafic metavolcanic. Strongly to intensely biotite altered. Biotte occurs as distinct fine grained books which are preferentially oriented parallel to the foliation.	15-30, tightly folded, sub-cm, blue-grey qtz veins per meter. Fine grains of PO with lesser PY and CPY are observed proximal to and within qtz veins. Sulphide abundances are highty variable ranging from trace to 8% locally										

					MAJOR UNIT			MINOR UNIT						AL	TER	ATIC	N	
From	То	Unit	Col	Text	Comments	Comments	Unit	Comments	Bio	Ca	r (Chl	Gru	Hem	Ser	Si	Comments	
110.7	126.3		DG	FOL	Fine grained, strongly foliated, mafic metavolcanic. Strongly to intensely biolite altered. Biotite occurs as distinct fine grained books which are preferentially oriented parallel to the foliation.	15-30, tightly folded, sub-cm, blue-grey qtz veins per meter. Fine grains of PO with lesser PY and CPY are observed proximal to and within qtz veins. Sulphide abundances are highly variable ranging from trace to 8% Incally												
126.3	131.8	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	В	FOL	Fine grained, melanocratic brown, clastic metasedimentary unit. The unit is strongly foliated and intensely folded at steep but variable degrees to the core axis. 15:25 grey-blue qtz veins pet meter, tightly folded rarely boudinaged.	1-3cm in width, associated with intermittent but significant PO mineralization with lesser PY and CPV. Fine, strongly folded, laminations are inferred to be relict primary bedding.												
131.8	138.8		G	FOL	Fine grained, mesocratic grey, ultramafic intrusive. Intermittently weakly silicified. Weakly waxy tactility throughout.													
138.8	143.5	· · · · · · · · · · · · · · · · · · ·	DG	FOL	Fine grained, dark green, mafic metavolcanic. The unit is abundantly invaded by 10-40cm opaque white qtz veins. Wisps and stringers of PO occur within, and proximal to the veins.	The veins have imparted a moderately intense biotite alteration on the unit. The tightly folded blue-grey dt veins of the previous unit are present but in a reduced abundance, approx FW												
143.5	162.3		В	POR BL	Strongly foliated, moderately well banded, porphyroblastic biotite garnet schist. 1-3cm bands of 4E crosscut the unit frequently 1-2 per meter. 4E bands are typically well mineralized.	5-15mm wide blue-grey, tightly folded, qtz veins, 5-10 per meter. qtz veins are typically associated with disseminated PO mineralization. Moderate to strong staurolite alteration occurs intermittently in short intervals.												

					MAJOR UNIT			MINOR UNIT	Τ					ALT	ERA		
From	То	Unit	Col	Text	Comments	Comments	Un	Unit Comments	Bio	Car	Cł	ıl G	àru	Hem	Ser	Si	Comments
143.5	162.3	-	в	POR BL	Strongly foliated, moderately well banded, porphyroblastic biotite garnet schist. 1-3cm bands of 4E crosscut the unit frequently 1-2 per meter. 4E bands are typically well migrafications and the standard the standard term of	5-15mm wide blue-grey, tightly folded, qtz veins, 5-10 per meter. dt veins are twicelly											
162.3	163.2	4E	DG	BA	Alternating irregular bands of dark green amphibole with	associated with											
163.2	165.8		в	BA	garnet. Biotite with garnet, and chert. Chert bands are typically bouidnaged. Or may be tightly folded. PO is present as fine disseminated grains or wisps in a modal abundance of 2%. Porphyroblastic biotite garnet schist. A weakly banded	mineralization. Moderate to strong staurolite alteration occurs intermittently in short											
165.8	167.3	4E	DG	FOL	character is apparent. 5-10 sub –cm qtz veins per meter, typically boudinaged. Trace PO occurring as fine disseminated grains.	Medium to coarse blebs in gtz, and fine											
167.3	169		в	BA	Quartz clast 4E. Abundant opaque white qtz veins throughout which have been attenuated and boudinaged into large ragged to subrounded qtz clasts. 4% PO which is	stringers parallel to banding. 4% PO which is	1										
169	170.5	4E	DG	BA	observed as fine grains between densely packed garnets. Porphyroblastic biotite garnet schist. A weakly banded	observed as fine grains between densely packed garnets											
170.5	177.1		В	POR BL	character is apparent. 5-10 sub -cm qtz veins per meter, typically boudinaged. Trace PO occurring as fine disseminated grains. 1cm bands of moderate to strong grunerite alteration are common. Quartz clast 4E. Abundant blue-grey qtz veins throughout (25-30 per meter) which have been atteruated and boudinaged into large ragged to subrounded qtz clasts. Porphyroblastic biotite garnet staurolite schist. Patches of weak staurolite alteration throughout the biotite groundmass. Impart a pale grey color on the unit. Staurolite occurs as distinct fine buff colored grains.	Hacked gamets. Medium to coarse blebs in qtz, and fine stringers parallel to banding.											
177.1	181.9	2.	DG	МА	Fine grained dark green mafic metavolcanic. Weakly biotite altered. Foliation is not easily discernable due to the fine grain size. Intercalated 2-5cm bands of 4f per meter.												
181.9	190.3		в	POR BL	Strongly foliated biotite garnet schist. 10-20 sub cm qtz veins per meter, typically boudinaged. Narrow bands of 4E are sparely observed and often display well developed folding which is not typically observable in the highly ductile 4F.	1% PO occurs as fine grained wisps and stringers.											
190.3	192.5	4E	DG	POR BL	Moderately banded weakly folded amphibole garnet iron formation. Dominantly the unit consists of subhedral medium grained garnets set in a groundmass of dark green amphibole. Commonly there are planar,	do agglomerated garnets with interstitial grunerite. 5-10, sub cm blue grey qtz veins per											
				POR	1-2cm qtz veins and larger, intercalated 4E bands increase	\meter.	1										
193.5	194.2	4	В	BL	composition from upper contact to lower. Trace to 0.5% PO												
194.2	195.5	6W-	В	BL	as tine wisps or stringers increasing in abundance downhole. 5% fine to medium grained garnet porphyroblasts set in a fine												
195.5	205	4	В	POR BL	grained, finely laminated, dark brown groundmass. Brown-maroon, mg, porphyroblastic, foliated, weakly-banded, mod-developed 4F. – 40% mg (1-3mm) grts scattered in a bio-rich groundmass. ~5% green amph wisps locally present. ~5-8% qtz stringers (~0.5-1cm) and are often boudinaged.	Trace to 1% PO min locally. Diffuse LC with 4EF.											
195.5	205	H CON	В	POR BL	mod-developed 4F, ~40% mg (1-3mm) grts scattered in a bio-rich groundmass, ~5% green amph wisps locally present. ~5-8% qtz stringers (~0.5-1cm) and are often boudinaged.	I race to 1% PO min locally. Diffuse LC with 4EF.											

					MAJOR UNIT			MINOR UNIT						AL	ERA	TION	
From	То	Unit	Col	Text	Comments	Comments	Unit	t Comments Bi	io	Car	Ch	d (Gru	Hem	Ser	Si	Comments
195.5	205		В	POR BL	Brown-maroon, mg, porphyroblastic, foliated, weakly-banded, mod-developed 4F 40% mg (1-3mm) grts scattered in a bio-rich groundmass, ~5% green amph wisps locally present. ~5-8% qtz stringers (~0.5-1cm) and are often boudinaged.	Trace to 1% PO min locally. Diffuse LC with 4EF.											
205	217	4EF	GG	ВА	Dark green-grey-brown, fg-mg, banded, well foliated, mod-developed 4EF. ~25% mg (~1-4mm) grts throughout, but mainly associated with bio matrix (4F) ~40% green amph defining the 4E component with scattered grts associated.	Folding present in several areas, often as Z-folds. Trace PO min with up to 2% PO locally and no mag. ~2-3% qtz-orb stringers locally. Sharp LC with 4FE.											
217	223.2		В	BA	Brown-green-grey, fg-mg, banded, well-foliated, mod-developed 4FE. Several amph patches (-2-5cm) occur throughout defining the 4E component (-20%), -40-50% mg (1-4mm) grt porphyroblasts scattered throughout the 4F patches.	Weak (~2-3%) qtz-crb stringers. No min or mag present. Diffuse LC with 6.											
223.2	226.2		G	FOL	Grey-light brown, fg, foliated metasediment (6). No mag or min seen. Unit is defined by a weakly banded texture with elevated silica content. ~34% mg (1-2mm) grts scattered in patches. Diffuse LC with 4EF.												
226.2	232.1	4EF	GG	BA	Dark green-grey-brown, fg-mg, banded, well foliated, mod-developed 4EF, ~25% mg (~1-4mm) grts throughout, but mainly associated with bio matrix (4F), ~35-40% green amph defining the 4E component with scattered grts associated.	Trace PO min with up to 2% PO locally and trace mag locally. ~2-3% qtz-crb stringers locally. Sharp LC with 4BF.											
232.1	242	4BF	G	ВА	Dark grey-brown, fg-mg, banded, foliated, 4BF. ~25% bio+grt bands intercalated within alternating bands of mag and chert. Weak folding locally present. Trace PO min withy up to 3% PO locally throughout. Sharp LC with 4B.												

					MAJOR UNIT			MINOR UNIT						AL	TER	ATION	1
From	То	Unit	Col	Text	Comments	Comments	Unit	Comments	Bio	Car	Ch	ni C	Gru	Hem	Ser	Si	Comments
232.1	242	4BF	G	BA	Dark grey-brown, fg-mg, banded, foliated, 4BF, ~25% bio+grt bands intercalated within alternating bands of mag and chert. Weak folding locally present Trace PO min withy up												
242	246.3	4B	G	BA	Ito 3% PO locally infroductions in the Dark grey-light grey, ito, banded to laminated, folded, magnetic 4B. Alternating 0.5-2cm bands of chert (~60%) and magnetic (~35%). There are occasional non-mag wisps of dark green amph throughout (~5-8% of unit). Chert bands are generally wider than	the mag bands. Weak to mod folded patches locally throughout. Trace to 2% PY min locally present. Diffuse LC with 4B.											
246.3	276.6	-48- -48- 	G	BA	Dark grey-light grey, fg, banded to laminated, folded, very magnetic 4B. Strained in localized patches. Alternating 0.5-2cm bands of chert (~60%) and magnetite (~35%). Chert bands are generally wider than the mag bands.	Trace to 3% PO and PY min locally present throughout. Well folded patches locally throughout with M and S folding. Sharp LC with 2K.											
277.2	283	48	G	BA	magnetic 4B. Aliernating 0.5-2cm bands of chert (~65%)' and magnetite (~30%). Chert bands are generally wider than the mag bands. Trace to 3% PO min locally present throughout.	patches locally throughout. Sharp LC with 2J.											

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					MAJOR UNIT			MINOR UNIT						ALT	ERA	TION	
From	То	Unit	Col	Text	Comments	Comments	Unit	t Comments	Bio	Car	Chl	Gr	u H	em s	Ser	Si	Comments
277.2	283	48	G	BA	Dark grey-light grey, fg, banded to laminated, folded, very magnetic 4B. Alternating 0.5-2cm bands of chert (~65%) and magnetite (~30%). Ohert bands are generally wider than the mag bands. Trace to 3% PO min locally present throughout.	Mod to well folded patches locally throughout. Sharp LC with 2J.											
283	284.6		DG	FOL	Dark green, mg, foliated mafic dyke. Much coarser texture than typical mafic units. Mod green amph alt throughout that												
284.6	285.1	- 2K	DG	FOL	is well foliated. No min or mag present. Well foliated with sharp contacts. Sharp LC with 2K.		-										
285.1	297.1	4B-	G	ВА	Dark green, fg, foliated mafic dyke. Mod bio and amph alt throughout that is well foliated and weakly strained. There are ~2.3% qtz-crb stringers (~0.5cm) throughout. No min or mag present. Well foliated with sharp contacts. Sharp LC with 4B. Dark grey-light grey, fg, banded to laminated, folded, very magnetic 4B. Alternating 0.5-2cm bands of chert (~65%) and magnetite (~30%). Chert bands are generally wider than the mag bands. Trace PO min with up to 8% PO locally present throughout.	Mod folded patches locally present throughout. Diffuse LC with 4A.											
297.1	298.6	4A	G	BA	Grey-beige, Ig, foliated chert-grunente iron formation (4A). Strongly silicified chert with well-developed banding. ~75% chert with ~10% grun wispy bands finely intermixed. ~8%	Diffuse LC with 4B.											
298.6	301.8	4B	G	BA	PO min throughout entire unit and trace mag present locally. Dark grey-light grey, (g), banded to laminated, folded, very magnetic 4B. Alternating 0.5-2cm bands of chert (~65%) and magnetic (~30%). Chert bands are generally wider than the mag bands. Trace to ~2% PO min locally present throughout.	Mod folded patches locally present throughout.											
301.8	320.9		G	DI	Grey-green-beige, fg, distorted, foliated, altered chert-grunerite iron formation (4A). Strongly silicified chert with well-developed green ampt wisps throughout composing – 25% of unit. ~40-50% chert with ~6-8% grun wispy bands finely intermixed.	There are also occasional wisps of magnetite locally throughout (-8%). Trace to 10% PO min throughout entire unit and weak mag locally associated with magnetite. Elevated strain and weak folds found throughout unit. Diffuse LC with UM.											

					MAJOR UNIT			MINOR UNIT					ALTE	ATION	
From	То	Unit	Col	Text	Comments	Comments	Uni	nit Comments	Bio	Ca	r Ch	I G	ru Hem Se	Si	Comments
301.8	320.9 328.9	44	G	DI	Grey-green-beige, fg, distorted, foliated, altered chert-grunerite iron formation (4A). Strongly silicified chert with well-developed green amph wisps throughout composing ~25% of unit. ~40-50% chert with ~6-8% grun wispy bands finely intermixed. Light green, fg, distorted, foliated, ultramafic unit. Weak green amph alt and moderate talc alt locally throughout. weak to mod strain and fine folding present throughout. There are ~2-3% qtz-crb stringers present. Weak crb background replacement.	There are also occasional wisps of magnetite locally throughout (-8%). Trace to 10% PO min throughout entire unit and weak mag locally associated with magnetite. Elevated strain and weak folds found throughout unit. Diffuse LC with UM. No min or mag present. Diffuse LC with mafic.									
328.9 _353.6 _354.2	353.6 354.2 391.1		DG G DG	FOL BA	Dark green, fg, foliated mafic unit. Weak to mod bio oriented with fabric and weak amph alt locally throughout. Elevated strain locally present. ~2-3% qtz stringers locally. No min or mag present. Sharp LC with 4B. Dark grey-light grey, fg, banded to laminated, folded, very magnetic 4B. Alternating 0.5-2cm bands of chert (~75%) and magnetite (~20%). Chert bands are generally wider than the mag bands. ~3% PO min present throughout. Sharp LC with mafic. Dark green, fg, foliated mafic unit. Weak to mod bio oriented with fabric and weak amph alt locally throughout. Elevated strain patches locally present. Weak folding is also locally present, but best exhibited by bent veins. ~3-4% qtz stringers locally.	No min throughout with 1-2 specks of PO locally and no mag present. Sharp LC with altered mafic.									

16-WEL-061

					MAJOR UNIT			MINOR UNIT						AL	TER	ATIC	N
From	То	Unit	Col	Text	Comments	Comments	Unit	Comments E	3io	Car	r Ci	hi	Gru	Hem	Ser	Si	Comments
397.9	409.4	· · · · · · · · · · · · · · · · · · ·	DG	FOL	Dark green, fg, foliated mafic unit. Weak to mod bio oriented with fabric and weak amph alt locally throughout. Elevated strain patches locally present with strong shearing between 436.5-445m. Weak folding is also locally present.	(exhibited by bent veins). ~3-5% dtz stringers locally. No min throughout with only 1% PO locally associated with shearing with no mag present. Diffuse LC with distorted malic.											
409.4	510.4		GG	DI	Dark green-grey-white, fg, sheared and distorted, foliated, altered matic unit. Mod to strong bio and green amph alt locally throughout associated with shears. Strongly sheared patches locally throughout with elevated strain in the matic between shears.	Weak folding locally present (flipping labric). ~15-20% qtz and qtz-cb stringers locally and are strongest around sheared patches. No min throughout with only 1% FO locally in shearing with no mag present. VG seen in small patches between 456.6-457m.											

16-	WE	L-061
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					MAJOR UNIT			MINOR UNIT	_					,	ALTE	RA	TION	
From	То	Unit	Col	Text	Comments	Comments	Unit	Comments	Bio	Ca	ar (Chl	Gru	He	m Se	er	Si	Comments
409.4	510.4		GG	DI	Dark green-grey-white, fg, sheared and distorted, foliated, altered mafic unit. Mod to strong bio and green amph alt locally throughout associated with shears. Strongly sheared patches locally throughout with elevated strain in the mafic between shears.	Weak folding locally present (flipping fabric). ~15-20% qtz and qt2-crb stringers locally and are strongest around sheared patches. No min throughout with only 1% PO locally in shearing with no mag present. VG seen in small patches between 456.6-457m.												

					MAJOR UNIT			MINOR UNIT						AI	TER	ATIC	N	
From	То	Unit	Col	Text	Comments	Comments	Unit	Comments	Bio	Car	Ch	1	Gru	Hem	Ser	Si	Comments	0
409.4	510.4		GG	וס	Dark green-grey-white, fg, sheared and distorted, foliated, altered mafic unit. Mod to strong bio and green amph alt locally throughout associated with shears. Strongly sheared patches locally throughout with elevated strain in the mafic between shears.	Weak folding locally present (flipping fabric), ~15-20% qtz and qtz-crb stringers locally and are sheared patches. No min throughout with only 1% FO locally in shearing with no mag present. VG seen in small patches between 456.6-457m.												
510.4	513.5		w	ма	Milky white to grey, aphanitic, massive with occasional foliations in a dz vein. A few wisps of green amph present locally throughout. No min or mag present. Poor ground with numerous broken or blocky sections. Irregular contacts. Dark green, fg, foliated mafic unit. Weak to mod bio and amph alt locally throughout. Elevated strain patches locally	700/ shoet with 050/												
513.5	514.2	~2, [×]	DG	FOL	present. Weak folding is present. ~3-5% qtz stringers locally. No min throughout and no mag present. Sharp LC	green amph wisps												
514.2	518.3	4A	GG	DI	with altered 4A. Grey-green, fg, folded, strained, banded, foliated altered 4A that lacks grun. Strongly silicified with strong banding between chert and green amph that is folded and strained throughout. Black threads throughout, but not magnetite? Dark green-grey/white, fg, distorted, foliated, altered mafic	min throughout entire unit and trace mag present locally. Called altered 4A, but appears more like a 4B. Diffuse LC with mafic.												
518.3	529.1	2	DG	DI	unit. Mod bio and green amph alt locally throughout associated with elevated strain. Moderate strain patches locally throughout with ~10-15% stockwork qtz veining present throughout.	Weak folding locally present. No min or mag present. Gradational LC with UM.												

					MAJOR UNIT			MINOR UNIT					AL	TERA	TION		
From	То	Unit	Col	Text	Comments	Comments	Unit	Comments	Bio	Car	Chl	Gru	Hem	Ser	Si	Comments	1
518.3	529.1		DG	DI	Dark green-grey/white, fg, distorted, foliated, altered mafic unit. Mod bio and green amph alt locally throughout associated with elevated strain. Moderate strain patches locally throughout with ~10-15% stockwork qtz veining present throughout.	Weak folding locally present. No min or mag present. Gradational LC with UM.											
529.1	538.3		LG	FOL	Light green, fg-mg, foliated ultramafic unit. Weak green amph alt and weak localized talc alt. There are ~2-3% qtz-crb stringers present. Weak crb background replacement. No min or mag present. Gradational LC with mafic.												
538.3	542.9	· · · · · · · · · · · · · · · · · · ·	DG	FOL	Dark green-grey, fg, foliated, weakly distorted, altered mafic unit. Weak bio and mod green amph alt locally throughout associated with elevated strain. Weak to mod local strain patches with ~8-10% dt replacement veining present. No min or mag present.	Sharp LC with altered 4A.											
542.9	557.3	44	GG	ВА	Grey-green, fg, folded, strained, banded, foliated altered 4A that lacks grun. Very similar to previous 4A unit. Silicified with strong banding between chert and green amph that is folded and strained. Black threads throughout, but most are not mag.	Bio? ~70-75% chert with ~20-25% green amph wisps throughout. Occasional (~3%) grt+bio threads. ~3-8% PO min throughout unit and trace mag locally. Called altered 4A, but looks more like a 4B (no mag). Last 4m has less amph. mostly chert. Diffuse LC.											
557.3	580	2,	DG	DI	Dark green-grey/white, fg, distorted, foliated, altered mafic unit. Mod bio and green amph alt locally throughout associated with elevated strain. Intense strain throughout first 5m and transitions to strongly foliated with oriented bio (like 2T).	Strained area has ~10% stockwork qtz veining present throughout. No min or mag present. Sharp LC with 4B.											

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					MAJOR UNIT			MINOR UNIT							ALT	ERA	TIO	N	
From	То	Unit	Col	Text	Comments	Comments	Unit	Comments	Bio	Ca	ır C	Chl	Gru	J He	em l	Ser	Si	Comments	
557.3	580		DG	DI	Dark green-grey/white, fg, distorted, foliated, altered mafic unit. Mod bio and green amph alt locally throughout associated with elevated strain. Intense strain throughout first 5m and transitions to strongly foliated with oriented bio (like 2T).	Strained area has ~10% stockwork qtz veining present throughout. No min or mag present. Sharp LC with 4B.													
580	600.8		G	וס	Dark grey-light grey, fg, folded, banded to laminated, magnetic 4B. Alternating 0.5-2cm bands of chert (~60%) and magnetite (~20%) with wisps of green amph (~15%) throughout. Chert bands are generally wider than the mag bands.	Occasional wisps of grt+bio locally intermixed with bedding (~3-4%). Trace to ~3% PO min locally present throughour. Numerous folds and fabric flips with a shallow CAA. Diffuse LC with mafic.													

					MAJOR UNIT		Ι	MINOR UNIT	Τ						ALTE	RAT	ION	
From	То	Unit	Col	Text	Comments	Comments	Unit	nit Comments	Bi	io	Car	Chl	Gru	u He	em S	er S	Si	Comments
580 600.8	600.8 603	4B 4A	G GG	DI BA	Dark grey-light grey, fg, folded, banded to laminated, magnetic 4B. Alternating 0.5-2cm bands of chert (-60%) and magnetite (-20%) with wisps of green amph (-15%) throughout. Chert bands are generally wider than the mag	Occasional wisps of grt+bio locally intermixed with bedding (~3-4%). Trace to ~3%												
					bands, Grey-green, fg, banded, weakly-folded, foliated altered 4A that lacks grun. Strongly silicified with strong banding between chert and green amph that is weakly folded and strained throughout. Black threads throughout, but not magnetite.	PO min locally present throughout. Numerous folds and fabric flips with a shallow CAA. Diffuse LC with mafic. Perhaps bio? ~70% chert with ~25% green amph wisps throughout. Trace to ~3% PO min locally. Called attered 4A, but looks more like a 4B.												
603	624.9		DG	FOL	Dark green-brown, fg, foliated, altered mafic unit. Mod to strong bio alt and weak amph alt locally. Bio oriented in areas similar to a 2T. ~3-4% qtz stringers present throughout. No min or mag present. Diffuse LC with 4B.													
					Dark grey-green, fg, banded to laminated, weakly folded, magnetic 4B. Alternating 0.5-2cm bands of chert (~60%) and magnetite (~15%) with wisps of green amph (~15-20%) throughout. Chert bands are generally wider than the other bands. Black, mg, mottled Lamp Dyke. Has a mottled texture that almost seems like a breccia. Occasional crb replaced blobs (~3%). Lamp dyke is broken up into several bands intermixed with the 4B. Sharp LC with 4B. Dark grey green, Ig, banded to laminated, magnetic 4B.	~6% PO min present throughout as wisps. Occasional small tolds present. Sharp LC with Lamp. Up to 12% PO min present throughout as stroop wisps along												
624.9	625.9	4B 13	GG BK	BA	(~15%) with wisps of green amph (~15%) throughout. Chert hands are generally wider than the other bands	margins of cherty bands, Sharp LC with												
626.3	626.8	48	GG	BA	Black, mg, mottled Lamp Dyke. Has a mottled texture with darker and white patches that almost seems like it has been	Lamp. /Up to 10% PO min	T											
626.8	628.2	13	BK	MO	brecciated. Occasional crb replaced blobs (~1-2mm;~3%).	present throughout as strong wisps along												
028.2	028.8	40	GG	BA	Dark grey-green, fg, banded to laminated, magnetic 4B.	margins of cherty bands. Sharp LC with	1											
628.8	632.5	2°	DG	FOL	(~15%) with wisps of green amph (~15%) throughout. Chert bands are generally wider than the other bands. Dark green-grey, fg, foliated, weakly distorted, altered mafic unit. Weak to mod bio and green amph alt locally throughout associated Weak to mod local strain with distorted irregular.	\mafic.												
632.5	647.3		DG	FOL	banding. ~3-4% qtz stringers present. No min or mag present. Strongly foliated, strongly altered, mafic metavolcanic. Intense biotite alteration, moderate to strong green amphibole alteration. ~1cm qtz veins occur throughout at a frequency of 1-3 per meter. veins wider than 1 cm are present but rare.	All veins contain fine to medium disseminated grains of PO and CPV with minor PY. Veins typically display strong folding or boudinage. Disseminated sulphides outside of veins occur in trace abundances. High Mg. Fine grained, Phanentic, equigranular.												

					MAJOR UNIT			MINOR UNIT						AL	TER	ATIC	N
From	То	Unit	Col	Text	Comments	Comments	Unit	Comments	Bio	Car	Ch	1	Gru	Hem	Ser	Si	Comments
632.5	647.3	2	DG	FOL	Strongly foliated, strongly altered, mafic metavolcanic. Intense biotite alteration, moderate to strong green amphibole alteration 1 cm qiz veins occur throughout at a frequency of 1-3 per meter. veins wider than 1 cm are present but rare.	All veins contain fine to medium disseminated grains of PO and CPY with minor PY. Veins typically display strong folding or boudinage. Disseminated subplices outside of veins occur in trace abundances. High Mg. Fine grained, Phanertic, equigranular.											
647.3	665.1		GG	FOL	Fine grained, mesocratic grey, ultramafic unit. Interpreted to be intrusive. The unit has a strong waxy tactility, intensified on broken faces. This is indicative of intense serpentine or talc alteration.	There is a strong foliation present at variable orientations. Sub-cm folded qtz veins present near upper contact.											
665.1	668.9	+ + + + + + + + + + + + + + + + + + +	DG	FOL	Fine grained, phaneritic, mafic unit. The unit is interpreted to be an intrusive dyke or sill. Dark green in color. Moderate green amphibole alteration. Moderately foliated diffuse upper and lower contacts.												
668.9	680.4		G	FOL	Dark grey ultramatic unit, mottled salt and pepper type appearance. Very strongly foliated at a moderate degree to the core axis. Distinctly different in texture and appearance from previous unit. Undetermined if this unit is a flow or intrusion.	Intense waxy tactility especially on fracture surfaces. Traces of disseminated PO CPY appears to be primary mineralization.											
680.4	681.1	. 2 .	DG	MA	fine grained, dark green mafic metavolcanic. diffuse upper and lower contacts												

					MAJOR UNIT			MINOR UNIT					A	LTERA	TION	
From	То	Unit	Col	Text	Comments	Comments	Unit	nit Comments	Bi	io Ca	ar Cl	hl G	Gru Her	n Ser	Si	Comments
680.4	681.1	2	DG	MA	fine grained, dark green mafic metavolcanic. diffuse upper and lower contacts											
681.1	688.8		DG	MA	Ultramatic intrusive unit typical of those observed in WEL and POE drilling. Fine grained grey-green in color. Weak soapy tactility. Sharp lower contact.											
688.8	703.2	4B	G	ВА	Aphanitic to fine grained magnetite chert grunerite iron formation. The banded fabric is heavily deformed the orientation of the banding is highly variable throughout as it has been distorted by tight to sweeping folds.	Traces of PO, locally 0.5%, are observed throughout as fine stringers or disseminated blebs. Chert is translucent to opaque and buff colored. Grunerite occurs as thin selvedges bordering magnetite bands.										
703.2	719.6		DG	FOL	High Mg basalt. Fine to medium grained, dominantly equigranular. 1-2 white dtz veins per meter. 1-3cm wide, translucent to opaque. No mineralization observed. Aphanitic to fine grained magnetite chert grunerite iron formation. The banded fabric is strongly distorted by sweeping fields throuphout the unit. Therefore the orientation of the	Traces of PO are observed throughout as fine stringers or disseminated blebs, locally 1% proximal to lower contact. Chert is translucent to opaque and buff to pale green colored. Grunerite occurs as thin occurs as thin										

					MAJOR UNIT			MINOR UNIT	_					AL	TER	ATIC	DN
From	То	Unit	Col	Text	Comments	Comments	Unit	Comments	Bio	Car	Ch	1 (Gru	Hem	Ser	Si	Comments
719.6	731.7	48	G	ВА	Aphanitic to fine grained magnetite chert grunerite iron formation. The banded fabric is strongly distorted by sweeping folds throughout the unit. Therefore the orientation of the compositional banding is highly variable.	Traces of PO are observed throughout as fine stringers or disseminated blebs, locally 1% proximal to lower contact. Chert is translucent to opaque and buff to pale green colored. Grunerite occurs as thin selvedges bordering magnetite bands.					S						/intercalated zone between 2 and 4B. strongly chlorite altered.
731.7	809.8		DG	FOL	Fine grained, pale green, mafic metavolcanic. Weakly to moderately biotite altered. Strongly foliated with tight folds observed occasionally. Weak chlorite alteration, intense amphibole alteration.	Sparsely sub cm tightly folded qtz veins may be observed. Barren of sulphide mineralization.											

16-	WEL	-061
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					MAJOR UNIT			MINOR UNIT						AL	TERA	TION		
From	То	Unit	Col	Text	Comments	Comments	Unit	Comments	Bio	Ca	r C	Chl	Gru	Hem	Ser	Si	Comments	
731.7	809.8		DG	FOL	Fine grained, pale green, mafic metavolcanic. Weakly to moderately biotite altered. Strongly foliated with tight folds observed occasionally. Weak chlorite alteration, intense amphibole alteration.	Sparsely sub cm tightly folded qtz veins may be observed. Barren of sulphide mineralization.					S							
						MAJOR UNIT			MINOR UNIT						AL	TER	ATIO	N
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	From	То	Unit	Col	Text	Comments	Comments	Unit	Comments	Bio	Car	Ch	d (Gru	Hem	Ser	Si	Comments
	731.7	809.8		DG	FOL	Fine grained, pale green, mafic metavolcanic. Weakly to moderately biotite altered. Strongly foliated with tight folds observed occasionally. Weak chlorite alteration, intense amphibole alteration.	Sparsely sub cm tightly folded qtz veins may be observed. Barren of sulphide mineralization.	€ 4 ₿	(intraformational 4B			S	()					
-	900.9	910.0	40		DA	Intraformational 4B, sub cm bands of aphanitic white chert and black magnetite. Banding shows weak deformation,	Lower contact is diffuse due to contact											
-	010.0	010.9		G	DA FOI	displaying a wavy character. Highly strained upper contact with strong to intense chlorite alteration.	metamorphism with ultramafic dyke.											
	812.5	812.5		DG	FOL	Dark green, fine grained ultramafic intrusive. Similar in appearance to mafic metavolcanics, but identified through characteristic ultramafic alteration and typically soft character. Soapy to the touch.	Veins are dominantly planar but may be weakly boudinaged or moderately folded. 3-5cm qtz veins are present rarely. Rarely folding of the foliated fabric is observed.		what is interpreted to be a course grained flow center. amphibolite grade featuring coarse 5-15mm long ascicular amphibole grains.									

					MAJOR UNIT			MINOR UNIT						ALTE	RAT	TION	
From	То	Unit	Col	Text	Comments	Comments	Unit	Comments	Bio	Car	Chl	I G	iru H	am S	ier 1	Si	Comments
812.5	867.5		DG	FOL	Dominantly fine grained mafic metavolcanic. Weakly biotite altered. Strongly foliated. PO and CPY occur as fine disseminated grains. Within the rock mass or in association with sub cm qtz carb veins.	Veins are dominantly planar but may be weakly boudinaged or moderately folded. 3-5cm qtz veins are present rarely. Rarely folding of the foliated fabric is observed.											
867.5	877.9		G	FOL	Fine grained, mesocratic grey, fine grained, ultramafic intrusive unit. Notably softy and soapy to the touch. Diffuse upper and lower contacts.												
877.9	893.2	, 2 , ,	GG	FOL	Fine gained, well foliated, mafic metavolcanic. Mesocratic grey to leucocratic green. Moderately to strongly biotite altered. 1-2 sub-cm carbonate veins per meter. rarely 1-2cm qtz veins with carbonate selvedges are observed.												

16-	WE	L-0	61
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					MAJOR UNIT			MINOR UNIT						ALT	ERA		N	
From	То	Unit	Col	Text	Comments	Comments	Unit	Comments	Bio C	ar	Chl	Gr	u H	em	Ser	Si	Comments	
877.9	893.2		GG	FOL	Fine gained, well foliated, mafic metavolcanic. Mesocratic grey to leucocratic green. Moderately to strongly biotite altered. 1-2 sub-cm carbonate veins per meter. rarely 1-2cm qtz veins with carbonate selvedges are observed.	The et-fleeded												
893.2	899.3	4A	G	LA	Unusual, highly deformed unit consisting of variably well preserved of grey carbonate, chert, and grunerite, with lesser quantities if magnetite. The entire unit is intensely deformed and qtz flooded. weakly magnetic.	The dat hoosed destroys the compositional banding but it is intensely folded where preserved. 2-5% PO observed throughout as fine disseminate grains and wisps as well as medium to coarse amorphous blebs and scrack seal precipitations.												
899.3	906.2	· · · · · · · · · · · · · · · · · · ·	GG	FOL	Fine gained, well foliated, mafic metavolcanic. Mesocratic grey to green. Moderately to strongly biotite altered. 5-10 sub-cm carbonate veins per meter. Sharp contacts. No mineralization observed.	The qtz flooded destroys the compositional banding but it is intensely folded where preserved. 1-2% PO observed throuchout as fine												
906.2	908.5	4B	G	DI	Unusual, highly deformed unit consisting of variably well preserved of grey carbonate, chert, and magnetite. The entire unit is intensely deformed and qtz flooded.	disseminate grains and wisps as well as medium to coarse amorphous blebs and												
908.5	911	4FB	в	ВА	banding is dominantly oriented sub-parallel to the core axis and is strongly folded. Fine PO grains and stringers are disseminated throughout and are bound to the compositional bands.	crack seal precipitations. modal abundance of PO is estimated to be 5%.												
911	918.4	48	G	DI	Aphanitic to fine grained 4B. Strong silicification has destroyed the primary compositional banding. Magnetite is strongly to intensely altered to grunerite however the unit remains moderately to strongly magnetic.	Sparsely wisps and blebs of PO are observed, trace abundances overall. relict banding is deformed by wavy low angle folding.										S		
918.4	923	48F	вк	ВА	Banded chert, biolite-garnet, magnetite iron formation. The banded fabric is moderately well defined but strongly to intensely folded. 0.5 to 1 % PO occurring as course blebs, fine crack seal stringers, and fine disseminate grains.	Magnetite bands display grunerite alteration selvedges.												

				MAJOR UNIT			MINOR UNIT						AL.	TERA	ATION	1
From	То	Unit Co	Text	Comments	Comments	Uni	it Comments	Bio	Car	Ch	I G	Gru	Hem	Ser	Si	Comments
918.4	923	4BF BK	BA	Banded chert, biotite-garnet, magnetite iron formation. The banded fabric is moderately well defined but strongly to intensely folded. 0.5 to 1 % PO occurring as course blebs, fine crack seal stringers, and fine disseminate grains.	Magnetite bands display grunerite alteration selvedges.											
923	927.8	4В ВК	BA	Aphanitic to fine grained chert magnetite iron formation. The banded fabric is very well preserved but intensely folded. Magnetite bands display fine grunerite selvedges. Trace PO occurring as fine wisps or stringers.												
927.8	935.7	4BF G	ВА	Banded chert, biolite-garnet, magnetite iron formation. The banded fabric is moderately well defined but intensely folded, trace PO occurring as fine stringers. Magnetite bands display fine grunerite selvedges.	Weak dark green amphibole alteration observed within biotite bands. Chert bands commonly display weak to moderate boudinaged in addition to folding.											
935.7	941	48 вк	ВА	Banded chert, magnetite iron formation. The compositional banding is very finely laminated, and very strongly folded. Occasional small intervals of silicification are host to blebby and crack seal PO. Up to 3% locally, trace overall.												
941	945.4	48F G	ВА	Banded chert, biotite-garnet, magnetite iron formation. The banded fabric is moderately well defined but intensely folded, trace PO occurring as fine stringers. Magnetite bands display fine grunerite selvedges.	Blebby chlorite alteration observed within biotite bands. Chert bands commonly display weak to moderate boudinaged in addition to folding.											
945.4	965.3		ВА	Banded chert, magnetite iron formation. The compositional banding is very finely laminated, highly regular, and weakly deformed. Weakly folded proximal to upper contact. Chert bands often weakly to moderately boudinaged.	Occasional small intervals of silicification are host to blebby and crack seal PO. Up to 3% locally, trace overall.											

					MAJOR UNIT			MINOR UNIT						AL	TER	ATIC	N	
From	То	Unit	Col	Text	Comments	Comments	Unit	Comments	Bio	Car	Ch	l (Gru	Hem	Ser	Si	Com	ments
945.4	965.3	4B	вк	BA	Banded chert, magnetite iron formation. The compositional banding is very finely laminated, highly regular, and weakly deformed. Weakly folded proximal to upper contact. Chert bands often weakly to moderately boudinaged.	Occasional small intervals of silicification are host to blebby and crack seal PO. Up to 3% locally, trace overall.												
965.3	967	* 2K +	G	MA	Fine grained, melanocratic grey, mafic intrusive dyke. Very weakly deformed, sharp contacts, dominantly featureless.													
967	989.7	488	вк	BA	Magnetite, chert, biotite-garnet iron formation. The banded fabric is very well preserved, characterized as finely laminated chert and magnetite between 1-2cm biotite bands with garnet porphyroblasts.	The compositional banding is strongly deformed by broad sweeping folds throughout the unit. There is no consistent orientation of the banding. Trace to 0.5% PO and PY throughout occurring as fine wisps and less commonly medium to coarse blebs.												
989.7	994.2	-4B	вк	BA	Aphanitic to fine grained, banded chert magnetite iron formation. Dominantly the banding can be characterized as fine alternating laminations of magnetite and chert however there are sparse 5-15mm wide bands of biotite with garnet observed.	The compositional banding is strongly deformed by broad sweeping folds throughout the unit. There is no consistent orientation of the banding. Trace to 0.5% PO and PY throughout												
994.2	1003.2	4 8 F	ВК	BA	Magnetite, chert, biotite-garnet iron formation. The banded fabric is very well preserved, characterized as finely laminated chert and magnetite between 1-2cm biotite bands with garnet porphyroblasts.	voccurring as fine wisps // The compositional banding is dominantly undeformed, only weak folding observed occasionally. Trace to 0.5% PO and PY throughout occurring as fine wisps and less commonly medium to coarse blebs.												

					MAJOR UNIT			MINOR UNIT						AL	TER	ATION	٧
From	То	Unit	Col	Text	Comments	Comments	Unit	Comments	Bic	Ca	Ch	hl	Gru	Hem	Ser	Si	Comments
994.2	1003.2	ABF	вк	ВА	Magnetite, chert, biotite-garnet iron formation. The banded fabric is very well preserved, characterized as finely laminated chert and magnetite between 1-2cm biotite bands with garnet porphyroblasts.	The compositional banding is dominantly undeformed, only weak folding observed											
1003.2	1012.4	3Р	G	МА	Fine grained, mesocratic grey, intermediate intrusive. The unit is dominantly featureless, displaying no notable veining, exceptional alteration, or significant strain fabrics. Simply a massive grey unit with sharp contacts.	occasionally. Trace to 0.5% PO and PY throughout occurring as fine wisps and less commonly medium to coarse blebs.		partially digested and intensely altered 4B xenolith thrapped within the large intermediate dyke.									
1012.4	1024.3	48	G	DI	Dark grey-light grey, fg, folded, banded to laminated, magnetic 4B. Alternating 0.5-2cm bands of chert (~60%) and magnetite (~35%). There are occasional non-mag wisps of dark green amph throughout (~10% of unit).	Chert bands are generally wider than the mag bands. Mod folded patches throughout unit. Trace to 4% PO min locally present. Sharp LC with sediment.											
1024.3	1025.7		G	FOL	Grey, fg, foliated metasediment (6). No mag or min seen. Unit is defined by a weakly foliated fabric with elevated silica content. Occasional dz nodules or fragments in patches.												
1025.7	1030.9	48	G	ВА	Sharp LC with 4B. Dark grey-light grey, fg, banded to laminated, locally folded magnetic 4B. Alternating 0.5-2cm bands of chert (~60%) and magnetite (~35%). There are occasional non-mag wisps of dark green amph throughout (~10% of unit).	Chert bands are generally wider than the mag bands. Weak to mod folded patches throughout unit. Trace to 2% PO min locally present. Diffuse LC with 4BF.											
1030.9	1035.2	4BF	G	BA	Dark grey, fg-mg, banded, foliated, 4BF. ~25% bio+grt bands intercalated within alternating bands of mag and chert. Weak folding locally present. Trace PO min locally. Diffuse LC with 4B.												
1035.2	1044.5	4B	G	BA	Dark grey-light grey, fg, banded to laminated, locally folded magnetic 4B. Alternating 0.5-2cm bands of chert (~60%) and magnetite (~35%). There are occasional non-mag wisps of dark green amph throughout (~10% of unit).	Chert bands are generally wider than the mag bands. Weak to mod folded patches throughout unit. Trace to 2% PO min locally present. Diffuse LC with 4BF.											

					MAJOR UNIT			MINOR UNIT							ALT	ERA	TION	1	
From	То	Unit	Col	Text	Comments	Comments	Unit	Comments	Bio	C	ar	Chl	Gr	u H	lem	Ser	Si	Comments	5
1035.2	1044.5	4B	G	ва	Dark grey-light grey, fg, banded to laminated, locally folded magnetic 4B. Alternating 0.5-2cm bands of chert (~60%) and magnetite (~35%). There are occasional non-mag wisps of dark green amph throughout (~10% of unit).	Chert bands are generally wider than the mag bands. Weak to mod folded patches throughout unit. Trace to 2% PO min locally													
1044.5	1062	48F	G	ВА	Dark grey-brown, fg-mg, folded, banded, foliated, 4BF. ~20-25% bio+gr bands intercalated within alternating bands of mag and chert. Folding found locally throughout. Trace to 4% PO min locally throughout. Badly fractured ground between 1053-1054.5m.	present. Diffuse LC ² with 4BF.													
1062	1070.3	48	G	BA	Dark grey-light grey, fg, banded to laminated, locally folded magnetic 45. Alternating 0.5-2cm bands of chert (~60%) and magnetite (~35%). There are occasional non-mag wisps of dark green amph throughout (~10% of unit).	Chert bands are generally wider than the mag bands. Weak to mod folded patches throughout unit. Trace to 4% PO min locally present. Sharp LC with 4FE.													
1070.3	1074		в	ва	Brown-green-grey, fg-mg, banded, well-foliated, mod-developed 4FE. Several (~20-25%) amph patches (2-12cm) occur throughout defining the 4E component. ~40% mg (1-4mm) grt porphyroblasts scattered throughout the 4F areas.	~5% qtz-crb stringers and cherty patches. Trace to 2% PO min locally throughout and weak mag present. Diffuse LC with 4F.													
1074	1078.1	4	BF	FOL	Brown-maroon, fg-mg, foliated, weak to mod-developed 4F. ~40-45% mg (1-3mm) grts scattered in a bio-rich groundmass forming fine bands. ~3-5% green amph wisps locally present. No min or mag present. Diffuse LC with 4EA.														
1078.1	1084.9	4EA (G	ва	Grey-green-beige-brown, fg-mg, banded, weakly folded, weak to mod-developed 4EA. ~20% grun-grt, ~35% chert, ~15-20% bio-grt and ~15% green amph with minor mag (~5%). Trace to 5% PO min locally. Strained in several areas with folding throughout unit.	Sharp LC with 4F.													

					MAJOR UNIT			MINOR UNIT	T					ALT	ERA	TION	
From	То	Unit	Col	Text	Comments	Comments	Un	nit Comments	Bic	o Ca	ar (Chl	Gru	Hem	Ser	Si	Comments
1078.1	1084.9	4EA	GG	BA	Grey-green-beige-brown, fg-mg, banded, weakly folded, weak to mod-developed 4EA. ~20% grun+grt, ~35% chert, ~15-20% bio+grt and ~15% green amph with minor mag (~5%). Trace to 5% PC min locally. Strained in several areas with folding throughout unit.	Sharp LC with 4F.											
1084.9	1096.6		В	FOL	Brown-maroon-grey, fg-mg, foliated, weak to mod-developed 4F. ~30% mg (1-3mm) grts scattered in a bio-rich groundmass forming fine weak bands. Elevated silica content present giving a grey appearance. ~3-5% green amph wisps locally present.	No min or mag present. Diffuse LC with 4FE.											
1096.6	1104.9	4EF	В	BA	Brown-green-grey, fg-mg, banded, well-foliated, mod-developed 4FE. Several (~25%) amph patches (2-15cm) occur throughout defining the 4E component. ~30-40% mg (1-3mm) grf porphyroblasts scattered throughout the 4F areas.	~5% qtz-crb stringers and cherty patches. A few patches of the 4F get very weak and appear like they may even be sediment. Trace to 2% PO min locally present. Diffuse LC with 3F.											
1104.9	1127.2	3F	G	IJ	Grey-white, fg, distorted, foliated 3F. ~5% lapilli (~1-3mm) scattered throughout. Significant qtz-orb stockwork stringers/alteration present throughout creating a very distorted and altered appearance. ~5% qtz bands/stringers present throughout.	Weak to mod sericite alt and weak bio alt. Weakly folded locally. Several weak Meth faults/brecias from ~1120 to the end. EOH											

						MAJOR UNIT			MINOR UNIT							Α	LTE	RA	TION	
From	om	То	Unit	Col	Text	Comments	Comments	Uni	it Comments	Bic	o C	ar	Ch	G	iru	Hen	n S	er	Si	Comments
04	4.9	1127.2	ЗF	G	DI	Grey-white, fg, distorted, foliated 3F. ~5% lapilli (~1-3mm) scattered throughout. Significant qtz-crb stockwork stringers/alteration present througthout creating a very distorted and altered appearance. ~5% qtz bands/stringers present throughout.	Weak to mod sericite alt and weak bio alt. Weakly folded locally. Several weak Meth faults/breccias from ~1120 to the end. EOH													
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Appendix 3

Information withheld for client confidentiality.