Form # DL 12

831002

DIAMOND DRILL RECORD

PROPERTY TIDEWATER Project Number 971

Hole No. TW 79-1 Co-ordinates _____ Bearing at Collar 140°

Dip at Collar - 75°

Collar Elevation 477 m Commenced Drilling October 3, 1979

Total Depth 297.6 m Completed Drilling October 17, 1979

Logged By: D. Fleming

Core Size NQ Coring Method _____ Drilling Contractor Conners Drilling

Survey Summary				Pertinent Assay Data				Pertinent Geology	
Depth	Dip	Bearing	Method	Interval		% MoS_2		Interval	Rock Type
				3 - 120 m	(117m)	0.008%		0 - 3 m	Overburden
				120 - 174	(54m)	0.040)	108m	3 - 265	Hornfelsic greywacke, silt stone
				174 - 218	(44m)	0.153)	0.087	265 - 298	Postmineral diorite dike.
				218 - 228	(10m)	0.060)			
				228 - 265	(37m)	0.008			

AMAX MINERALS EXPLORATION — TIDEWATER PROPERTY

DDH TW 79-1
SHEET 1 OF 26

DEPTH METRES	GRAPHIC LOG: LITH.	BEDDING	FAULTS	NUMBER OF PIECES	% REC.	ASSAY INTERCEPTS	ASSAY DATA: SAMPLE NO. AND INTERVAL	EST. MoS_2	% MoS_2			VEINS: Qtz	Qtz Py	Qtz MoS_2	Py	MoS_2	Carb	Qtz MoS_2 Py	Qtz MoS_2 Pyrh		% MINERALS: K-Feld	Biotite	Musc	Pyrite	Pyrrhotite
0																									
2				5	68		61151	.05	.056			1		2								25			5
4				14	52		61152		.006			2		1								25			.5
6				20	92																	5			2
8				19	95																	5			2
10			>	20	152		61153	.05	.003			2						2				25			1
12			>	20	105		61154	.02	.012			2		1								25			2
14			>	20	100			.02				2		1				1				25	5	1	1
16			>	20	105		61155	.02	.002			2	3	3			5					30	2	1	.5
18			>	20	99		61156	.05	.013			4	2	1				2				30	5	2	.5
20			>	20	85		61157	.02	.005			1	1					2				25	5	2	.5
22				15	90		61158		.002				3									25	5	2	.5
24			>	20	95		61159	.05	.004			1		1			2	1			2	15	6	2	.2
26			>	20	90		61160	.05	.001				2	3								20	4	2	.5
28			>	20	94		61161		.028			2	2				2					15	2	1	1
30																									

NOTES

0 - 3.0 - Overburden

3.0 - 5.0 - Lt. Brown-purple hornfelsic greywacke med. grained, lt and dark laminae. Feldspar grains (white) up to 3 mm.
- 2 qtz. MoS_2 veins (1 mm - 2 mm) offset 6 mm white massive qtz vein at 40°.

6.0 - 10.1 - Dacite porphyry white feldspar phenocrysts (15%) zoned with 5% Biotite (chloritized) phenocrysts in a dark grey aphanitic groundmass.

10.1 - 11.9 - Lt. Med Brown-purple hornfelsic graywacke fine - med grained, massive with some greenish laminae. Feldspathic clasts small (1 mm), pyrh-biotite v. fine grained very hard to knife blade.
10.25 - 10.6 - 2 qtz sericite (patchy) green vein at 0° and 30°.

11.9 - 12.1 - Dacite porphyry intrusive contact down core axis.

12.1 - 13.6 - Brown Purple Hornfelsic Greywacke. Massive redgrained visible pyrrhotite - biotite.
12.5 - 13.5 - 3 large (.5 - 1.5 cm) qtz sericite (patchy) veins ± pyrite at 20° - 40°.
1 large qtz MoS_2 vein (7 mm) white, at 40° MoS_2 banded along fractures internal to vein

13.6 - 14.20 - Dk. grey greywacke (hornfelsed?) fine - med grained massive. Qtz-feldspar greasy grey.

14.2 - 14.80 - Purple-brown hornfelsic greywacke.

14.8 - 15.0 - Lt. Green diopside skarn - fine grained recryst.

15.2 - 15.5 - Dacite Porphyry - dk grey, white plag-phenocrysts altered (15%) to sericite - pyrite, zoned. Biotite phenocrysts 5% aphanite grey groundmass.

15.5 - 16.0 - Brown-purple Hornfelsic greywacke med gr. massive cut by 20° qtz. MoS_2 vein (18°) irregular with pervasive green sericite - epidote alteration.

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SHEET 2 OF 26

DEPTH METRES	GRAPHIC LOG: LITH.	BEDDING	FAULTS	NUMBER OF PIECES	% REC.	ASSAY INTERCEPTS	ASSAY DATA: SAMPLE NO. AND INTERVAL	EST. MoS_2	% MoS_2			VEINS: Qtz	Qtz Py	Qtz MoS_2	Py	MoS_2	Carb				% MINERALS: K-Feld	Biotite	Musc			

NOTES

16.0 - 17.3 - Dk. Grey greywacke (Hornfelsic?) - fine grained grey greasy qtz and feldspar - argill fragments - biotite visible.
17.0 - Qtz. pyrite veins irregular (1.3 mm) at 60° green pervasive. Alt. Qtz - MoS_2 4 mm white at 20°. 2 qtz - MoS_2 veins (1 mm) at 20° at Low angle CO_3 veins (1 mm).

17.3 - 24.0 - Purple HOrnfelsic Greywacke - fine grained.
18.4 - 20.4 - 2 qtz. veins at 15°/60° with strong green sericite epidote pervasive alt. with qtz - MoS_2 later filling along parallel fractures - low angle fractures with green alteration halo. - 2 qtz. MoS_2 - Py at 42°-18° MoS_2 banded in internal fractures.
23.0 - qtz-pyrite at 52° and 10°.

24.0 - 24.8 - Dk. Grey Greywacke (Hornfelsic) fine grained, greasy, clastic with fine biotite (secondary?) = 20%, massive. - CO_3 along fractures.

24.8 - 25.3 - Tuff - tan brown - lt green, greasy with dark clastic material ~ 5%
25.0 - 2 qtz - MoS_2-Pyrite veins at 15° (4 mm) K-spar vein and selvage alteration. CO_3 border phase. Green pervasive alteration overlapping.

25.3 - 28.2 - Purple Hornfelsic graywacke. fine-med grained massive.
26.0 - 28.0 - High angle fractures with lt. green alteration pervasive.

28.2 - 29.6 - Dk Grey Greywacke - Lt Brown locally (tuffaceous?) fine grained - Qtz Pyrite veins (no MoS_2) (1 mm)

29.6 - 34.3 - Purple Hornfels. med grained, some 2 mm feldspathic white grains (5%)
30.0 - 34.0 - Qtz-MoS_2 (3 mm - 1 mm) shallow at 10° with MoS_2 in selvage as coarse disseminations. Qtz-MoS_2 (1 mm) at 42°. MoS_2 diss finely Qtz-Pyrite vein with Lt green sericite(?) alteration.

AMAX MINERALS EXPLORATION — TIDEWATER PROPERTY

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SHEET 3 OF 26

DEPTH METRES	GRAPHIC LOG: LITH.	BEDDING	FAULTS	NUMBER OF PIECES	% REC.	ASSAY INTERCEPTS	ASSAY DATA: SAMPLE NO. AND INTERVAL	EST. MoS_2	% MoS_2			VEINS: Qtz	Qtz Py	Qtz MoS_2	Py	MoS_2	Carb	Qtz MoS_2 Py	Qtz MoS_2 Pyrh	Qtz Pyrh	% MINERALS: K-Feld	Biotite	Musc	Pyrite	Pyrrhotite
30				20	98		61162	.05	.002				1	3					1			20	2	2	1
32				9	95		61163	.05	.002			1		3								20	2	1	2
34				16	95		61164	/	.022			2										20		1	3
36				13	99			/														10			4
38				8	101			/														10			4
40				16	100		61165	.02	.018				2					1	1			10		5	2
42			>	20	93		61165	.07					2	3				2				20		5	2
44			>	20	95		61166	.02	.002			1	4				1			1		20		4	3
46			>	20	95		61167	.02	.038				3				1	1				25	1	5	2
48				20	132		61168	/	.068			1	3									25	2	5	2
50				13	85		61169	.02	.004			3		1								20	2	5	1
52			>	20	90		61170	.02	.078			3	1	4							1	20	2	3	1
54			>	20	99		61171	.02	.002				5	1			1					20		4	3
56				20	110		61172	/	.001			1										25		2	3
58																									

NOTES

33.4 - Qtz Pyrrhotite vein (20o) with coarse chlorite patchy.

34.3 - 35.6 - Dk Grey Greywacke (Hornfelsic).

35.6 - 41.0 - Biotite - Feldspar Porphyry - Dioritic in composition. Biotite (15%) up to 4 mm, Feldspar white, altered, up to 5 mm at 25%. Green - Dk grey groundmass (chloritic) med grained.* some small acicular hornblende

41.0 - 44.2 - Purple hornfelsic Graywacke - fine med grained massive white infrequent feldspathic grains to 2 mm. Pyrrhotite visible but very fine grained

41.0 - 42.0 - Qtz-MoS_2 - Pyrite veins at 5° crosscut by Qtz-Py veins at high angles. Pyrite heavily diss. on fractures and disseminated pervasive to vein.

43.8 - Braided Qtz-MoS_2 (4 mm) vein at 5°

42.44 - Qtz Pyrite veins 0 - 5°

44.2 - 47.5 - Dk. Grey Greywacke (Hornfelsic) Diotite up to 25% fine grained with greasy qtz - feldspar equigranular - large feldspathic white fragments. Highly argillaceous.

44.46 - Pyrite heavy on fractures, also w/low angle CO_3 veins (1 mm) - 5° Qtz Pyrite veins (1 mm) - Qtz-MoS_2- Pyrite vein (3 mm) at 50°

46.48 - Qtz Pyrite veins at 15°, 42° and 55°. Qtz MoS_2 vein at 50' (5 mm) MoS_2 diss in bands, parallel to vein.

47.5 - 48.0 - Dacite Porphyry - Lt green - gray aphanitic groundmass with plagioclase and biotite phenocrysts (chloritized) up to 10%. Pyrite diss locally..

48.0 - 48.7 - Purple Hornfelsic Greywacke.

48.0 - Qtz-MoS_2- Pyrite (7 mm). Extensive pervasive Qtz-Pyrite (sericite lt. green?) alteration. 5° angle on vein.

AMAX MINERALS EXPLORATION TIDEWATER PROPERTY

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SHEET 4 OF 26

DEPTH METRES	GRAPHIC LOG: LITH.	BEDDING	FAULTS	NUMBER OF PIECES	% REC.	ASSAY INTERCEPTS	ASSAY DATA: SAMPLE NO. AND INTERVAL	EST. MoS_2	% MoS_2			VEINS: Qtz	Qtz Py	Qtz MoS_2	Py	MoS_2	Carb				% MINERALS: K-Feld	Biotite	Musc			

NOTES

48.7 - 50.0 - Skarn (x3) Garnet-Diopside/Diopside - 3 20 cm limy beds (60° bedding). Upper bed white, hard w/some calcite + lt green mineral? Middle bed green diopside rich recrystallized. med. grained. Lower bed Lt green - red garnet diopside skarn. Garnet development adjacent to high angle qtz - pyrite veins * scheelite and Powellite.

50.8 - 51.6 - Biotite Porphyry - 15% Biotite phenocryst up to 4 mm in a dark grey aphanitic matrix. Dacitic in composition. - preceded in section, by Lt. green biotite porphyry veinlets, irregular, aphanitic matrix. Some Hornblende needles.

51.6 - 53.6 - Purple Hornfelsic Greywacke. - Qtz-pyrite veins with pervasive lt. green (sericite?) alteration.

52.0 - 54.0 - 7 mm Qtz veins with MoS_2 dissem finely in bands and in selvages 5° vein between Mafic Dyke contacts (slightly BRXX). KSPAR secondary on border.

53.6 - 54.1 - Dk. Grey Greywacke (Hornfelsic) - Qtz-MoS_2 veins (1 mm) at 20° and 5° - 25° Qtz-MoS_2 vein (white, massive). MoS_2 = 30% of vein

54.1 - 54.3 - Brown-Purple Hornfelsic Greywacke.

54.3 - 54.45 - Dk Grey Greywacke (Hornfelsic) - CO_3 veins, high angle with Pyrite ie. fracture filling.

54.45 - 55.1 - Purple Hornfelsic Greywacke.

54.0 - 55.1 - 2 Qtz-Pyrite veins (no alteration) 5° and 60o - Qtz-MoS_2 vein at 25°, 1 mm with fine dissem, MoS_2

55.1 - 55.3 - Skarn - Lt. green diopside rich 10 cm bed (60° bedding)

55.3 - 56.4 - Purple Hornfelsic Greywacke. white feldspathic clasts up to 2 mm (<5%) some dark argillaceous clastics. - Qtz MoS_2 vein at 25° (1 mm) & Qtz-Py veins slightly irregular at high and low angles. 5° & 60°

AMAX MINERALS EXPLORATION TIDEWATER PROPERTY

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SHEET 5 OF 26

DEPTH METRES	GRAPHIC LOG				% REC.	ASSAY INTERCEPTS	ASSAY DATA					VEINS									% MINERALS						NOTES
	LITH.	BEDDING	FAULTS	NUMBER OF PIECES			SAMPLE NO. AND INTERVAL	EST. MoS_2	% MoS_2			Qtz	Qtz Py	Qtz MoS_2	Py	MoS_2	Carb				K-Feld	Biotite	Musc				
																											56.4 - 59.7 - Biotite-Feldspar Porphyry. (x2) 2 ages of dykes of same composition. Lower dyke intrudes upper dykes showing biotite phenocrysts on a chilled margin. Dykes = 60% feldspar 30° phenocrysts. Groundmass medium grained Dacitic in composition(?) (possibly some Hornblende?) 59.7 - 59.75 - Hornfels - green-purple fine grained - 1 cm calcite-sericite(?) vein cuts core axis vertically - chilled dyke margin shows chlorite phenocrysts.

AMAX MINERALS EXPLORATION TIDEWATER PROPERTY

DDH TW 79-1
SHEET 6 OF 26

DEPTH METRES	GRAPHIC LOG: LITH.	BEDDING	FAULTS	NUMBER OF PIECES	% REC.	ASSAY INTERCEPTS	ASSAY DATA: SAMPLE NO. AND INTERVAL	EST. MoS_2	% MoS_2			VEINS: Qtz	Qtz Py	Qtz MoS_2	Py	MoS_2	Carb	Qtz MoS2 Py	Qtz MoS2 Pyrh	Qtz Pyrh	% MINERALS: K-Feld	Biotite	Musc	Pyrite	Pyrrhotite
58																									
				11	97			-													1	30	5		4
60																									
				12	95			-														30			4
62																									
				20	99			-														30			4
64																									
				20	98		61173	.05	.002				2	1						1		25	1	2	2
66																									
				9	105		61174	-	.006													30		2	4
68																									
				20	100		61175	-	.002				1	1								30		1	4
70																									
				20	93		61176	-	.004			1										30		1	4
72																									
				13	105			-														25		2	5
74																									
				20	100			-									2					25		2	5
76																									
				12	97			-				1					3					25		2	5
78																									
				8	100		61177	0.1	.016			1		1								25		2	2
80																									
				5	96		61178	-	.001				5				3		1	1		25		2	2
82																									
				7	97		61179	.05	.010				2	3					1	1		20		2	2
84																									
				10	130		61180	0.1	.007			1		8				1				20		2	3
86																									

NOTES

59.75 - 64.0 - Biotite-Feldspar Porphyry - central portion of dyke biotite phenocrysts up to 6 mm and = 30%. Chilled lower margin. Hornblende as small acicular needles = 10%.

64.0 - 64.15 - Skarn - lt green diopside skarnified bed, hard, fine grained recrystallized.

64.15 - 64.9 - Purple hornfels - fine grained granoblastic Possible bedding Parallel to core axis as Dk. Grey Hornfels locally

64.9 - 65.15 - Biotite-Feldspar Porphyry - Dykes and dikelets (x31 aphanitic brown-gray green groundmass with = 10% biotite phenocrysts. Hornblende = 10% Feldspar lt green.

65.15 - 66.5 - Purple-Brown Hornfelsic Graywacke.
64.0 - 66.0 - Qtz-pyrite veins at 20° and 24° (1 - 2 mm) - Qtz-pyrrhotite vein, white (<1 mm) at 20°, carries metallic grey mineral, soft with gray-brown streak.

66.5 - 69.0 - Hornfel-Biotite-Feldspar Porphyry. - biotite pheno. prominent (20% max). Medium grained groundmass. Dk grey-green (chloritized). Chilled margins. Hornblende <10% in groundmass as larger acicular needles. (Hornblende high).

69.0 - 69.7 - Dk. Grey Greywacke (Hornfelsic) in large euhedral elongated clasts of qtz-chert and argillite locally at 69.0 m Fine grained throughout.
69.2 - 60° qtz-MoS_2 vein (1 mm) Low angle qtz vein and High angle qtz-Py-Ser (dk green?) vein. Qtz dk. gray.

69.7 - 70.4 - Biotite Porphyry (Dacite) - gray green aphanitic groundmass. Biotite phenocryst.

70.4 - 71.0 - Purple Hornfelsic Graywacke.

71.0 - 77.8 - Biotite-Feldspar Porphyry - dacitic in composition. Medium grained groundmass of biotite hornblende (augite?) quartz and feldspar (green-white), felty texture. Biotite phenocrysts

AMAX MINERALS EXPLORATION TIDEWATER PROPERTY

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DEPTH METRES	GRAPHIC LOG: LITH.	BEDDING	FAULTS	NUMBER OF PIECES	% REC.	ASSAY INTERCEPTS	ASSAY DATA: SAMPLE NO. AND INTERVAL	EST. MoS_2	% MoS_2			VEINS: Qtz	Qtz Py	Qtz MoS_2	Py	MoS_2	Carb				% MINERALS: K-Feld	Biotite	Musc			

NOTES

up to 15%. Extremely variable. Varying textures suggest multiple intrusions. Dark, grey-green

77.8 - 78.0 - Brown-Purple Hornfelsic Greywacke - medium grained recrystallized with feldspathic (white) and argillaceous clasts up to 3 mm. Hard 78.0 - low lying qtz vein (1 mm)

78.0 - 79.3 - Biotite - Feldspar Porphyry - dk grey-green groundmass fine grained to aphanitic (chilled margin). Felty mass of biotite - Feldspar (green) with quartz.

79.3 - 81.3 - Brown Purple Hornfelsic Graywacke. - Fine to med grained with feldspathic clasts prominent (13 mm) Diss pyrite.
79.8 - Qtz-MoS_2 vein at 15° irregular with offshoots. Up to (4 mm)
80.0 - 81.3 - Qtz vein (1 mm) at 50°, Qtz pyrite at 30° and 75° (2 mm) - 15° qtz -CO_3 pyr cuts and displaced 45° qtz pyr.

81.3 - 82.8 - Biotite Porphyry. dk grey green med-fine grained groundmass of intergrown plates of biotite-feldspar and some HOrnblende laths. Large profile phenocrysts (5 mm max.).

82.8 - 90.45 - Purple Hornfelsic Greywacke - Siltstone. med grained biotite feldspar-quartz. Fine grained dk purple gray siltstone gradational.
84.0 - 90.0 - Large Qtz v(>5 mm) x3 low angle at 5 - 15° with good MoS_2 mineralization central to veins. disseminated - numerous 1 - 2 mm qtz-MoS_2 veins at 30 - 50°. 3 ages of qtz MoS_2 veins noted at 20° and 50° & 55°
85.2 - Qtz-CO_3 Feldspar vein (2 cm) with high % disseminated MoS_2 pervasive.

AMAX MINERALS EXPLORATION TIDEWATER PROPERTY

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SHEET 8 OF 26

DEPTH METRES	GRAPHIC LOG: LITH.	BEDDING	FAULTS	NUMBER OF PIECES	% REC.	ASSAY INTERCEPTS	ASSAY DATA: SAMPLE NO. AND INTERVAL	EST. MoS_2	% MoS_2			VEINS: Qtz	Qtz Py	Qtz MoS_2	Py	MoS_2	Carb	Qtz MoS_2 Py	Qtz MoS_2 Pyrh	Qtz Pyrh	% MINERALS: K-Feld	Biotite	Musc	Pyrite	Pyrrhotite
86																									
				20	75		61181	0.1	.002			1		3								20	/	1	3
88																									
				12	103		61182	0.2	.030			4	2	2								20	/	1	3
90																									
92				11	100		61183	.05	.003			1	3	5			1					20	/	1	2
				10	99		61184	.05	.005			1	1	1				1	1	1		20	/	2	3
94																									
				6	102		61185	.05	.002			3		1								20	1	1	2
96																									
				19	105		61186	-	.002			3								3		15	3	1	5
98																									
				17	97		61187	-	.001											2		10	3	/	5
100																									
				20	100		61188	-	.002			1								1		5	3	/	5
102																									
				20	105		61189	.05	.007			1		1						4		10	3	/	5
104																									
				20	100		61190	-	.002			1				2				3		15	3	/	5
106																									
				20	100		61191	.05	.005					1						5		15	3	/	5
108																									
				15	100		61192	0.1	.005			2		5						2		20	2	/	5
110																									
				20	80		61193	.05	.002			1		1						3		25	2	/	5
112																									
				14	95		61194	-	.002											4		25	/	/	5
114																									

NOTES

90.45 - 90.9 - Skarnified Limy Graywacke. med-coarse grained green (diopside?) recrystalized. Lt green with dark green margins. (gradational to depth).

90.9 - 93.6 - Purple Hornfelsic Graywacke - Siltstone - gradational between medium and fine grained locally. Feldspathic grains prominent.
90.0 - 93.6 - 8 - 10 low angle (10° - 5°) Qtz MoS_2 (± Py - Pyrh), later than 35 & 66° qtz veins. Low MoS_2 content. Bleached haloes - 10° qtz-pyrite-pyrrhotite-MoS_2 veins. Pyrrhotite patchy

93.6 - 94.0 - Black argillite (Hornfelsic) fine grained <10 cm beds (XB) interbedded with green-gray skarnified limy graywacke.

94.0 - 96.7 - Purple Hornfelsic Greywacke. - Qtz MoS_2 vein at 5° (<1 mm). - 15° - 25° Qtz- serioite veins. alteration lt. green pervasive and vein consisting of epidote - sericite. Patchy irregular.

96.7 - 96.9 - Skarnified Limy Greywacke - green-lt and dark in response to pyrrhotite filling fractures (irregular fracture patchy) - 23° Qtz-Pyrrhotite vein cutting skarn. Brown pervasive alteration. Alteration Kspathization and secondary biotite?

96.9 - 97.4 - Purple Hornfelsic Greywacke.
96.7 - 97.1 - White massive Qtz-Sericite-Pyrrhotite vein. (x2) at 15° 1 cm - 5 cm in width. Dk. gray patchy areas (?) Garnet development adjacent in limy bands.

97.4 - 97.9 - Hornfelsic Argillite-Siltstone dk black - purple on fresh surface fine-very fine grained. Grain size gradational. - Pyrrhotite heavy on fractures, high angle system with bleached and sericitized haloes

97.9 - 105.5 - Hornfelsic Interlaminated Graywacke-Silt-

DEPTH METRES	GRAPHIC LOG: LITH.	BEDDING	FAULTS	NUMBER OF PIECES	% REC.	ASSAY INTERCEPTS	ASSAY DATA: SAMPLE NO. AND INTERVAL	EST. MoS_2	% MoS_2			VEINS: Qtz	Qtz Py	Qtz MoS_2	Py	MoS_2	Carb				% MINERALS: K-Feld	Biotite	Musc			

NOTES

stone-Argillite. - Purple-dk grey on fresh surface some green limy beds. Lamination down to < 1 mm. Some irregular, lens like.

98.0 - 99.4 - White, massive Qtz-pyrrhotite-sericite vein. Pyrrhotite heavy on high angle fractures 10°.

99.7 - 102.1 - White massive Quartz vein 0 - 2° pyrrhotite heavy on high angle fractures. Small CO_3 component. Gray metallic mineral (<< 1%) dk. grey streak - hard.

103.0 - 3 mm Qtz-MoS_2 vein at 35°-MoS_2 diss central to vein.

105.5 - 105.6 - Skarnified Limy Greywacke-Siltstone. Lt-dk. green diopsidic skarn. Garnet in response to Qtz veining.

105.6 - 106.4 - Hornfelsic Interlaminated Greywacke - Argillite. - Qtz-Pyrh veins up to 5 mm at 60 - 70° Sericite vein alt. Gray metallic mineral. lt = 5 -6 grey streak.

106.4 - 106.5 - Tuff (Hornfelsic) Lt. Gray - Brown aphanitic.

106.5 - 111.6 - Hornfelsic Interlaminated Greywacke-Argillite.

106.0 - 110.0 - Qtz-MoS_2 vein (2 mm) at 8° with coarselydiss. MoS_2 - 40° Qtz MoS_2 (1 mm) cuts 20° early 1 mm Qtz MoS_2 vein. Numerous High angle fractures with Pyrrhotite - CO_3 filling. - Qtz Pyrrhotite at 24° sericite as vein alt (1 cm)

111.6 - 112.1 - Hornfelsic Argillite-Siltstone. dk Grey purple of fresh surface. Fine to very-fine grained

112.1 - 113.3 - Hornfelsic Interlaminated Greywacke - Argillite. - numerous high angle pyrrhotite filled fractures. - Qtz Pyrrhotite composite veins, irregular. Offshoots w/MoS_2(?) very fine dissem.

113.3 - 113.5 - Hornfelsic Black Argillite - numerous high angle pyrrhotite filling fractures ± quartz.

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DEPTH METRES	GRAPHIC LOG: LITH.	BEDDING	FAULTS	NUMBER PIECES	% REC.	ASSAY INTERCEPTS	ASSAY DATA: SAMPLE NO. AND INTERVAL	EST. MoS_2	% MoS_2			VEINS: Qtz	Qtz Py	Qtz MoS_2	Py -Pyrh	MoS_2	Carb	Qtz MoS_2 Py	Qtz MoS_2 Pyrh	Qtz Pyrh	% MINERALS: K-Fld	Biotite	Musc	Pyr.	Pyrrhotite
114				20	100		61195	.05	.001						1				1	1		25	05	-	5
116				15	104		61196	0.1	.001					4					1			25	-	-	4
118				16	105		61197	0.1	.001					3						3		25	1	-	4
120				15	95		61198	0.2	.035										4	4		20	2	-	6
122				20	100		61199	0.2	.007										4	1		20	2	.5	6
124				10	97		61200	2.0	.056					5						2		20	2	.5	4
126				20	105		61251	2.0	.100			1	1	2								20	2	1.0	4
128				13	102		61252	2.5	.112					2					3	3		20	2	-	6
130				10	100		61253	.01	.011					4						1		20	2	-	6
132				11	100		61254	.05	.007					4					1			20	.5	-	6
134				24	88		61255	.05	.003			1		1								20	.5	-	3
136				16	100		61256	.5	.034					2					2			20	2	-	7
138				7	99		61257	1.5	.064			2		2					3			20	2	-	7
140				16	100		61258	1.0	.074					6					3			20	3	-	7
142																									

NOTES

113.5 - 115.0 - Purple Hornfelsic Argillite - Greywacke-lt. brown locally. Purple on fresh surface, very fine grained biotite. Streak and Lineations of pyrrhotite. Purple alteration high adjacent to high angle pyrrhotite filling fractures.

115.0 - 116.0 - Purple spotted Hornfelsic argillite. fine grained light brown - purple with secondary biotite (?) clusters. - Qtz MoS_2 (x2) veins 7 mm and 3 mm at 40° and 30° resp. Sericite pervasive to vein but patchy and irregular.

116.5 - 117.5 - Black hornfelsic argillite -pyrrhotite streaky - Brown alteration - Qtz MoS_2 vein, pyrh at 28° and 60° (1 mm, < 1 mm). Brown pervasive alteration.

117.5 - 118.0 - Purple Hornfelsic argillite.

118.0 - 119.8 - Black HOrnfelsic argillite. Lt and dark streaks recognizable with pyrrhotite parallel to streaks. very fine grained - CO_3 pyrrhotite on low and high angle fractures. 119.7 - 32° Qtz-pyrrhotite vein (7 mm) with sericite-epidote in selvage. - Numerous 1 mm Qtz-MoS_2 veins at 25° - 35°.

119.8 - 122.0 - Purple Brown Hornfelsic argillite. 120.3 - 1.5 - 2.0 cm Qtz-MoS_2 - Pyrrhotite at 15° MoS_2 in bands. Qtz-Pyrrhotite veins large (1 cm - 3 mm) Brown-green selvage alteration 121.0 - 121.8 - Qtz-Pyrrhotite-MoS_2 veins > 1 cm at 0° - 5°. Sericite 5% of vein MoS_2, dissem on selvages. Bleaching pervasive as is diss pyrrhotite

122.0 - 127.0 - Hornfelsic Argillite-Greywacke - irregular bedding - suggests turbidite environment. Purple hornfels locally to quart veining areas. 123.0 - Qtz-MoS_2 veining, irregular in high intensity - Qtz-pyrite-sericite lt. green alteration pervasive.

DEPTH METRES	GRAPHIC LOG: LITH.	BEDDING	FAULTS	NUMBER OF PIECES	% REC.	ASSAY INTERCEPTS	ASSAY DATA: SAMPLE NO. AND INTERVAL	EST. MoS_2	% MoS_2			VEINS: Qtz	Qtz Py	Qtz MoS_2	Py	MoS_2	Carb				% MINERALS: K-Feld	Biotite	Musc			

NOTES

124.0 - 58° qtz-MoS_2 veining with Brown pervasive alteration 5° qtz-MoS_2 (4 mm) parallel to core axis with MoS_2 - Qtz offshoots at 30°, Brown-white bleaching alteration.

126.0 - Qtz-MoS_2 vein (1 - 2cm) at 15° divergent veins. Green brown pervasive alteration. Some MoS_2 pervasive dissem (?) vein irregular parallel to core axis on divergent offshoot. - Qtz-sericite vein, white massive (0 - 5°) >5 cm.

127.0 - 127.7 - Skarnified Limy argillite-Greywacke - lt-dark green diopside beds. Bedding external. Irregular garnet developed in response to Qtz MoS_2 vein - Qtz MoS_2 vein (high grade) (5° = 1 cm) MoS_2 banded - Qtz-Pyrh Pervasive.

127.7 - 132.1 - Hornfelsic Argillite. Minor Greywacke - Black to lt. brown purple. bedding highly irregular generally parallel to core axis. Spotted texture locally.

128.0 - Qtz-MoS2 0-5° with 40° offshoots cutting 40° qtz MoS2 veins which in turn have 20° offshoots.

128.4 - 129.2 - 0-5° Qtz MoS2 irregular, slightly anastomosing offshooting and divergent veins. (.7 cm - 1.5 cm) Green-lt brown white bleach alteration pervasive but patchy. Pyrrhotite on cross fractures in vein, diss pervasive to vein. - Qtz-Pyrh veins 30° - 60° (1 mm).

130.0 - 132.0 - Qtz-MoS2 vein 5° with 40° offshoots (1 m) vein 5 mm - Qtz-MoS2 vein 40-50° <1 mm with brown alteration pervasive. - Qtz-MoS2 vein 45° 1 mm with bleached halo. - 5° Qtz-MoS2 vein later than 45° Qtz-MoS2 as changes along 45° fractures.

132.1 - 132.4 - Skarnified limy greywacke- argillite lt green-orange garnet diopside skarn bed 5 cm with qtz-MoS2 vein parallel bedding (20°)

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DEPTH METRES	GRAPHIC LOG: LITH.	BEDDING	FAULTS	NUMBER OF PIECES	% REC.	ASSAY INTERCEPTS	ASSAY DATA: SAMPLE NO. AND INTERVAL	EST. MoS_2	% MoS_2			VEINS: Qtz	Qtz Py	Qtz MoS_2	Py	MoS_2	Carb				% MINERALS: K-Feld	Biotite	Musc			

NOTES

on bedding contact. med grained hard.

132.4 - 139.0 - Hornfelsic Argillite. Minor Graywacke. Argillite black-greywacke. Lt. brown irregular beds up to 30 cm. General bedding angle 20° with some qtz-MoS2 veins parallel bedding (<1mm) CO_3 on fractures 30°

132.0 - 135.5 - 50° - 60° Qtz MoS2 veins, alteration brown purple pervasive (1 mm veins) - 20° Qtz MoS2 parallel bedding along bedding planes - irregular (= 2mm) - Qtz vein barren 80° (<1 mm)

136.8 - 137.4 - Massive white Qtz-Pyrrhotite vein (= 80 cm) sericite vein alteration. Pyrrhotite massive mean selvages - Pyrrhotite disseminated pervasive some diss. MoS2 (<< 1%).

137.6 - 138.6 - 0-5° irregular anastomosing qtz-MoS2 - pyrrhotite vein (5mm - 1 cm) ie. parallel to core axis - pyrrhotite-sericite in selvages, MoS2 in parallel bands - 0-5° veins cuts 30° early qtz MoS2 pyrrhotite vein.

139.0 - 140.5 - Black and purple hornfelsic argillite. very fine grained with irregular wispy bedding. Lighter purple areas biotite rich darker areas black-silver sheen with possible andalusite development?

140.5 - 142.0 - Purple Hornfelsic Argillite-Siltstone.

140.5 - 141.0 - large 5 - 15° slightly anastomosing qtz. pyrrhotite-MoS2-sericite vein. MoS2-Pyrrhotite heavy on selvages and cross fractures. Pyrrhotite also disseminated pervasive along with lt. green and brown alteration.

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DEPTH METRES	GRAPHIC LOG: LITH.	BEDDING	FAULTS	NUMBER OF PIECES	% REC.	ASSAY INTERCEPTS	ASSAY DATA: SAMPLE NO. AND INTERVAL	EST. MoS_2	% MoS_2			VEINS: Qtz	Qtz Py	Qtz MoS_2	Py	MoS_2	Carb	Qtz Py MoS_2	Qtz Pyrh MoS_2	Qtz Pyrh	% MINERALS: K-Feld	Biotite	Musc	Pyrite	Pyrrhotite
142																									
				15	105		61259	0.5	.032					2					3			20	2	-	5
144																									
				7	95		61260	0.1	.024					5								20	2	1	2
146																									
				7	100		61261	.05	.012					4					1			20	1	2	3
148																									
				9	100		61262	0.1	.004			1		3								20	1		4
150																									
				14	100		61263	1.0	.024					6								20	2	-	3
152																									
				7	100		61264	0.8	.052					5								20	-	5	3
154																									
				18	100		61265	0.1	.034			2	1	5								20	-	1	3
156																									
				6	100		61266	0.5	.090					4								20		1	3
158																									
				10	100		61267	2.0	.096					8								20	1	2	3
160																									
				10	100		61268	0.2	.014				1	4						2		20	1	2	2
162																									
				14	100		61269	0.1	.010					2					1			20	1	1	3
164																									
				13	100		61270	0.5	.032			5		6					2			20	1	1	3
166																									
				8	100		61271	0.6	.029			2		7					1			20	1	1	4
168																									
				7	102		61272	0.5	.068					8								20	2		
170																									

NOTES

142.0 - 145.6 - Purple-black Hornfelsic Argillite-Siltstone bedding extremely irregular.
141.0 - 142.9 - 3mm Qtz MoS2 veins 0 - 5° (x3?) These veins crosscut set of 18° qtz MoS2 (1 mm) with similar mineralization. Veins extremely irregular, and extend in conjuctive sets for 2 meters.
- 1 - 2 mm qtz MoS2 veins at 9, 35 and 65°. 35° veins with brown pervasive alt.

145.6 - 145.9 - Skarnified Limy Siltstone. Fine grained green diopside bed (5 cm) at 15° bedding. Pyrrhotite relatively low. Dissem Pyrite noted = 2%

145.9 - 149.8 - Purple-Black Hornfelsic Siltstone Argillite. Irregular bedding. Purple hornfelsic siltstone biotite rich crystal rarely visible. Argillite, silver sheen on fractured surface. Pyrite disseminated lightly. Pyrrhotite low disseminated in host.
146.0 - 146.5 - Qtz MoS2 (1 cm) at 10°. Pyrrhotite heavy on selvage and coarsly diss. pervasive MoS2 pervasive disseminations and lightly on selvages.
146.5 - 146.0 - Qtz MoS2 veins at 20°25° and 60° 1 mm to 3 mm in width ± pyrrhotite.
146.0 - Qtz MoS2 at 35° (2 mm). Good grade. Qtz MoS2 (1 cm) low grade veins at 70° with MoS2 diss finely on selvages.

149.8 - 152.9 - Purple Hornfelsic Greywacke minor argillite-Siltstone. brown-purple feldspathic grains up to 1 mm with dark linear bands interstitical. Bedding irregular.
151.0 - 151.9 - 0-5° Qtz-MoS2 vein with sericite on selvages. Vein irregular with 5 mm width.

152.9 - 153.1 - Skarnified Limy Greywacke. med grained lt and dk green 20 cm bed.

153.1 - 159.7 - Purple Hornfelsic Greywacke Minor Siltstone

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DEPTH METRES	GRAPHIC LOG: LITH.	BEDDING	FAULTS	NUMBER OF PIECES	% REC.	ASSAY INTERCEPTS	ASSAY DATA: SAMPLE NO. AND INTERVAL	EST. MoS_2	% MoS_2			VEINS: Qtz	Qtz Py	Qtz MoS_2	Py	MoS_2	Carb				% MINERALS: K-Feld	Biotite	Musc			

NOTES

153.3 - 154.0 - Qtz MoS2 vein at 15°. 5 - 1 cm in width. MoS2 banded no pyrrhotite but some diss pyrite (?). 1 mm veins as offshoots to 18° and 40°.

154.0 - 154.2 - Qtz MoS2 vein (as above) 5°, .5 - 1 cm. slightly irregular - Pyrite on fractures.

156.0 - 159.7 - 10 - 30° Qtz MoS2 veins (x6) irregular up to 3 mm. MoS2 disseminated along fractures as offshoots to veins. Low angle veins connected by 0° stringers. MoS2 coarsly diss locally. Pyrite on cross fractures.

159.7 - 160.7 - Skarnified Limy Greywacke. Lt-dk green granoblastic medium grained. Pink garnet locally in irregular bands and adjacent to qtz-MoS2 veins. Pyrrhotite on selvages as coarse dissem. - 0 - 15° Qtz MoS2 veins irregular = 2 mm with tiny MoS2 fractures as offshoots. Pyrrhotite on selvage. - Mos2 disseminated pervasive to offshoot veins.

160.7 - 169.4 -Purple Hornfelsic Greywacke. - med-coarse grained. granoblastic Feldspathic grains up to 2 mm. Dark brown-black material. interstitial in linear bedding textures preserved (graphite?) Some green patches of lime rich areas. Pyrrhotite relatively low. - pyrite on fractures (high angle). 80° qtz vein with bleached halo, sericite pyrite on selvages.

161.3 - 15° qtz MoS2 vein with sericite (lt green) epidote on selvage. No pervasive alteration

162.5 - Qtz Pyrh. (low MoS2) vein at 55° - 1 cm

164.0 - Qtz MoS2 vein at 20° with MoS2 diss heavy on fractures - 1 cm wide - Late Qtz MoS2 - Qtz MoS2 - Pyrh veins at 25° cut early qtz MoS2-Qtz Pyrrh veins at 10-20° (< 1 mm) Late veins .5 - 1.0 cm.

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DEPTH METRES	GRAPHIC LOG: LITH.	BEDDING	FAULTS	NUMBER OF PIECES	% REC.	ASSAY INTERCEPTS	ASSAY DATA: SAMPLE NO. AND INTERVAL	EST. MoS_2	% MoS_2			VEINS: Qtz	Qtz Py	Qtz MoS_2	Py	MoS_2	Carb				% MINERALS: K-Feld	Biotite	Musc			

NOTES

165.7 - 166.4 - 15° Qtz-MoS2 vein with coarse diss MoS2 in bands (1 cm) with a stockwork of offshooting barren quartz veins at moderate angles. (± pyrrhotite). Light and dark green alteration minerals associated. Vein density = 15/m locally.

166.6 - MoS2 heavy on 70° 1 mm vein (x5). MoS2 on 1 cm 18° vein with heavy pyrrhotite locally.

167.0 - MoS2 diss along numerous 15 - 25° fractures.

167.6 - 2 limy beds small lt green-dk green granoblastic.

169.4 - 170.0 - Black Hornfelsic Argillite-Siltstone - fine grained siltstone brown-purple of fresh surface, argillite, black aphanitic with some tabular crystals dev. (andalusite?)

169.6 - 50° Qtz MoS2 vein 2 mm wide, wide green-white bleached halo.

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DEPTH METRES	GRAPHIC LOG: LITH.	BEDDING	FAULTS	NUMBER OF PIECES	% REC.	ASSAY INTERCEPTS	ASSAY DATA: SAMPLE NO. AND INTERVAL	EST. MoS_2	% MoS_2			VEINS: Qtz	Qtz Py	Qtz MoS_2	Py	MoS_2	Carb	Qtz Py ~~MoS2~~	Qtz Pyrh ~~MoS2~~	Qtz Pyrh	% MINERALS: K-Feld	Biotite	Musc	Pyrite	Pyrrhotite
170																									
172				12	99		61273	.2	.050			>10		5								20	/	/	4
174				13	99		61274	0.1	.014			>10		3								10	2	-	6
176				17	95		61275	0.4	.126			1		9								20	1		7
178				8	94		61276	.05	.006			4	1	2								20	/	1	4
180				14	102		61277	1.0	.130			2		8				1	1			20	1	1	5
182				17	100		61278	.50	.022			1		7					4			15	2	1	6
184				16	102		61279	.10	.018			3	1	4								20	/	-	4
186			>	20	99		61280	0.5	.134				1	4						1		20	3	2	4
188			>	20	115		61281	0.2	.072					3								25	2	2	6
190				13	100			0.1						2								30	-	4	2
192			>	20	100		61282	1.0	.062					4			>20					-	5	4	-
194			>	20	100		61283	0.8	.040					8			>5					10	5	3	-
196			>	20	75		61284	0.5	.016					8								10	5	4	-
198			>	20	103		61285	1.0	.124					6			>5		4			10	5	05	05

NOTES

170.0 - 174.0 - Purple Hornfelsic Greywacke Minor Argillite - Siltstone. Bedding fairly regular. Local argillite bands to 3 cm with some graded bedding to siltstone. Greywacke Lt. brown. Fine grain seds. darker.

171.4 - 171.7 - Qtz-MoS2 (4 mm) at 0 - 15°, irregular, discontinous. 30° fracture terminates vein. 50 - 60° lens like qtz veins swarm at high angles off of 0 - 15° vein and around it. Pyrrhotite disseminated pervasive - high. Possibly partly diagenetic.

172.7 - 173.9 - 3 Qtz-MoS2-epidote (?) - sericite veins, white massive up to 40 cm. MoS2 << 1% disseminated. Preceded and followed in section by swarming lens-like veins, discontinuous white massive.

174.0 - 186.9 - Black Hornfelsic Argillite Minor Siltstone. Black on cored surface (argillite). Grey silver sheen on fresh surface with pyrrhotite disseminated (5%) in linear bands. Andalusite (?) in stubby alligned, prismatic crystals. Very fine grained biotite producing sheer (?).

174.0 - 174.4 - 20°- 25° Qtz MoS2 veins, high grade diss MoS2 in bands and on selvages. MoS2 diss pervasive in small fractures.

174.4 - Early 23° 4 mm Qtz MoS2 cut by later 23° 1 mm Qtz MoS2.

175.3 - 35 - 60° <1 - 2 mm Qtz MoS2 veins with brown pervasive alt.

176.5 - also 20° & 60° 4 mm Qtz MoS2 veins.

176.6 - Qtz-Pyrite vein and barren Q.V. (< 1mm) at 50 - 80°

178.0 - 180.0 - Qtz veins (1 mm) from 30 - 80° Qtz MoS2 - Pyrh (3 mm) at 22°. Large (.5 - 1.0 cm) MoS2 bearing veins (high grade) with coarse disseminations at 45° and at 0 - 5° highly irregular with MoS2 bearing 1 - 3 mm offshoots.

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DEPTH METRES	GRAPHIC LOG: LITH.	BEDDING	FAULTS	NUMBER OF PIECES	% REC.	ASSAY INTERCEPTS	ASSAY DATA: SAMPLE NO. AND INTERVAL	EST. MoS_2	% MoS_2			VEINS: Qtz	Qtz Py	Qtz MoS_2	Py	MoS_2	Carb	Qtz Py MoS2	Qtz Pyrh MoS2	Qtz Pyr	% MINERALS: K-Fld	Biotite	Musc	Pyrite	Pyrrhotite

NOTES

Some patchy sericite alteration.
181.4 - 182.0 - 0 - 30° Qtz-MoS2-Pyrrh vein (2 cm max) MoS2 banded.
(180.6 - 181.0) - locally on 30° offshoots. Pyrrh massive and sericite on cross fractures and composite bits of hornfels. - 75° Qtz MoS2 (1 mm) later than 45° Qtz MoS2 (1 mm)
182.0 - 184.0 - 1 mm Qtz-Qtz MoS2 veins 25° and 55-70°. 45° qtz MoS2 vein (irregular) later than 65° qtz vein. - Pyrite-CO_3 (green) on all fractures.
184.0 - 12° & 5° banded Qtz MoS2 veins to 7 mm. lt brown pervasive bleaching alteration. 5° vein with lt green extreme alteration pervasive for 3 cm.
- 0 - 5° 2 mm braided. Qtz-MoS2 vein later than 60° white qtz-Pyrrhotite vein (pyrrhotite massive dissem) - 1 mm qtz pyrite vein (pyrite = 40% of veins). Pyrite also coated coarsely on CO_3 fractures at low angle.
186.1 - Light brown aphanitic groundmass with qtz eye porphyry = 2 cm wide dikelet.
186.2 - 186.5 - Qtz MoS2 vein at 0 - 5° with sericite patchy in vein. Pervasive alteration Lt green - Brown. Patchy. Veins up to 2 cm(?) High grade MoS2 banded.
186.9 - 188.7 - Mafic Dyke Dk. grey fine grained biotite qtz-calcite groundmass long acicular white mineral (H <5) = 5%. Feldspar (?) phenocrysts up to 2 mm altered, very soft, white, glassy.
188.7 - 189.5 - Biotite Dacitic Porphyry - pyrrhotite rich, dk green-grey, aphanitic groundmass. Biotite phenocrysts up to 2 mm.

DEPTH METRES	GRAPHIC LOG: LITH.	BEDDING	FAULTS	NUMBER OF PIECES	% REC.	ASSAY INTERCEPTS	ASSAY DATA: SAMPLE NO. AND INTERVAL	EST. MoS_2	% MoS_2			VEINS: Qtz	Qtz Py	Qtz MoS_2	Py	MoS_2	Carb				% MINERALS: K-Feld	Biotite	Musc			

NOTES

189.5 - 192.1 - Lt. Green Silicified HOrnfels - adjacent to fault. Yellow-green gouge in silicified, argillized breccia. CO_3 veining irregular on high density fractures. Locally at 19.0 m, pyrite, vuggy calcite and high density micro quartz veins. Possible argillization (tacky) - Qtz MoS2 veins disrupted and displaced by CO_3 fractures. Isolated lens and highly irregular MoS2 on fractures. Highly broken, soft locally .

192.1 - 197.6 - Med. Grey & Green HOrnfelsic Greywacke. Lt. green silicified fine-med grained texture coincidental with high CO_3 veining. Some lt. yellow clay fault gouge. Sed. texture preserved. - Numerous 55 - 65° regularly spaced 1.0 - .5 cm qtz-MoS2 veins. MoS2 generally low. Banded in ore vein. - 20° qtz MoS2 vein (grey) early to 55 - 65°. High grade (2 mm) - Pyrite disseminated locally along fractures with quartz. Some large calcite veins - vuggy locally.

194.5 - 45 - 55° Qtz MoS2 vein numerous) mostly 1.0 - 1.5 cm white with little diss. MoS2. Ore 45°. 1 - 5 cm q.v. banded with MoS2. - lt. green qtz-sericite silicified zone with Qtz-MoS2 vein 0 - 15°

196.2 - 55° - 35° Qtz MoS2 vein (1.5 cm - 3 mm) in purple hornf. grey w.

196.6 - 197.5 - low angle Qtz MoS2 veins in lt. green silicified fine grained host. Qtz pyrite-ser(?) alt. Extremely broken up with pyrite in veins also CO_3 on later fractures. Hornfels purple, fine gr. locally.

197.8 - 197.6 - Biotite Dacite porphyry. Biotite phenocrysts (1 mm) up to 5% in a dark-lt green aphanitic groundmass, clean euhedral phenocrysts show calcite component (some euhedral). - calcite vein (2 mm) at 35°.

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DEPTH METRES	GRAPHIC LOG: LITH.	BEDDING	FAULTS	NUMBER OF PIECES	% REC.	ASSAY INTERCEPTS	ASSAY DATA: SAMPLE NO. AND INTERVAL	EST. MoS_2	% MoS_2			VEINS: Qtz	Qtz Py	Qtz MoS_2	Py	MoS_2	Carb	Qtz Py MoS_2	Qtz Pyrh MoS_2	Qtz Pyrh	% MINERALS: K-fld	Biotite	Musc	Pyrite	Pyrrhotite
198																									
			>	20	95		61286	0.5	.070								3	2				10	1	.01	✓
200																									
				14	102		61287	2.0	.120										15			10	1	.05	2.5
202																									
				13	100		61288	0.5	.074					1					5			15	1	1	2.5
204																									
				13	99		61289	0.1	.018				5						1	1		20	1	3	2.0
206																									
				9	102		61290	2.5	1.36					5								1	2	2	2
208																									
				9	100		61291	1.5	.56				2	5						1		15	1	1	2
210																									
				6	100		61292	.50	.28					4					3	2		10	1.0	.5	3
212																									
			>	20	100		61293	.20	.024					10			2					15	1.0	0.5	2.0
214																									
				19	97		61294	.15	.066					10						1		15	0.5	0.5	2.0
216																									
				7	45		61295	.05	.048					3					2			15	0.5	0.5	1.5
218																									
				11	97		61201	.05	.030					7					2			15	-	0.5	1.5
220																									
				12	95		61202	.10	.086					6					2			15	-	0.5	1.5
222																									
				19	97		61203	.20	.046					7			2		3			15	-	0.5	1.5
224																									
				12	130		61204	.40	.078					4					2			10	1.0	0.5	1.5
226																									

NOTES

197.6 - 205.5 - Purple Hornfelsic Greywacke Minor Siltstone-Argillite Brown-Purple-Green interlaminated silts and sands dominent. Greywacke. med grained granoblastic. Lt. green silicified adjacent to Qtz-MoS2-Py veins. Pyrite sprinkled heavy on fractures. Pyrrhotite in groundmass past 200m

200.3 - 203.5 - 2 cm Qtz MoS2-Pyrrhotite along shear fractures. MoS2 banded and disseminated along selvages. Thick paint on shear surface. Slickensides parallel core axis. Seam fracture cuts earlier Qtz-MoS2 vein at 35° - 60° and up to 8 cm in width. CO_3 along shear surface also.

203.9 - Qtz MoS2 & Qtz MoS2 Pyrh. vein 80°. lt. green pervasive alteration with diss pyrite up to 3% locally. next to it, Qtz MoS2 Pyrite-Pyrrhotite breccia vein up to 5 cm. Pyrite disseminated pervasive for 25 cm. Pyrite on fractures.

205.5 - 214.3 - Black Purple Hornfelsic Argillite Minor Siltstone. Lt. brown - dk black laminae shows irregular bedding. Very fine grained purple sheen at fractured surface.

206.19 - 208.0 - Qtz MoS2 veins (large) adjoining at angles from 28° to 40° (209.3 - 210.3) MoS2 coarsely disseminated in parallel bands, on fractures.

208.0 - 210.0 - Pyrite heavy on high angle fractures, pyrrhotite diss. on low angle fractures in lge Qtz-MoS2 veins. Heavily diss. in hornfels. 30° and 50° ≤1 mm qtz MoS2 veins.

211.5 - Early Qtz-MoS2 (1 mm) with brown pervasive alteration, cut by later 65° 1 mm qtz-MoS2-Pyrrh vein.

212.0 - Qtz Pyrrh Ser MoS2 vein (MoS2 low) at 25° = 2 cm.

213.6 - Qtz MoS2 - CO_3 py stockwork adjacent to zone of shearing. Qtz MoS2 veins adjacent 1 - 2 mm at 15° - 35°. 1 - 2 cm Qtz MoS2 directly related.

AMAX MINERALS EXPLORATION TIDEWATER PROPERTY

DDH TW 79-1
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DEPTH METRES	GRAPHIC LOG: LITH.	BEDDING	FAULTS	NUMBER OF PIECES	% REC.	ASSAY INTERCEPTS	ASSAY DATA: SAMPLE NO. AND INTERVAL	EST. MoS_2	% MoS_2			VEINS: Qtz	Qtz Py	Qtz MoS_2	Py	MoS_2	Carb				% MINERALS: K-Feld	Biotite	Musc			

NOTES

214.3 - 216.2 - Purple Hornfelsic Greywacke Minor Argillite-Siltstone. Dk and light laminae correspond respectively to fine and medium grain size. spotted, granobastic texture - numerous 1 - 3 mm qtz MoS2 veins at 50°, 70° and also 5° - 25°
215.3 - 216.0 - 3 large 25 - 35° Qtz MoS2 banded veins at 1.0 - 1.5 cm which cut early 2 mm Qtz MoS2 veins at 35°

216.2 - 216.4 - Skarnified limy greywacke med-coarse grained diopside garnet skarn. Lt green - dk green. - 25° qtz MoS2 veins (x2) Pyrite on dry fractures.

216.4 - 229.4 - Purple Hornfelsic Greywacke Minor Argillite Siltstone.
217.0 - 20° 1 cm Qtz-Pyrrh-MoS2-Sericite. 40° to 60° 1 mm - 3 mm Qtz MoS2 ± Pyrrh.
218.0 - 220.0 - Pyrite heavy on high angle fractures. Numerous 1 mm qtz MoS2 veins. 30° - 75° with some brown pervasive alt. 1 cm Qtz-MoS2 (MoS2 low on selvages) late at 42° cutting early Qtz-MoS2 vein (<1 mm).
221.6 - 72° 3 cm Qtz-MoS2 vein. MoS2 coarsely disseminated - smaller veins (<1 mm) at 38, 72° and 12° MoS2 bearing. - Green CO_3 and pyrite fracture filling.
223.0 - MoS2-Pyrrh-ZnS-CO_3 composite vein at 15° about 1.5 cm wide. Some veins up to 7 mm previous - Qtz MoS2. - 1 mm MoS2 veins 20° - 40° with brown pervasive alteration.
224.6 - 5 mm Banded Qtz-MoS2 vein (20o) precedes 0° Quartz-MoS2 Pyrrh vein (> 2 cm) slightly irregular. 65° Qtz-MoS2 vein synchronous.
224.3 -1 cm Qtz MoS2 banded vein at 10° with 65° and 20° 1mm offshoots
224.5 - 0° - 20° Qtz-Sericite-Pyrrhotite-MoS2 vein. Lower vein (225 - 226.8) up to 50 cm.

AMAX MINERALS EXPLORATION TIDEWATER PROPERTY

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DEPTH METRES	GRAPHIC LOG				% REC.	ASSAY INTERCEPTS	ASSAY DATA					VEINS									% MINERALS						NOTES
	LITH.	BEDDING	FAULTS	NUMBER OF PIECES			SAMPLE NO. AND INTERVAL	EST. MoS_2	% MoS_2			Qtz	Qtz Py	Qtz MoS_2	Py	MoS_2	Carb				K-Feld	Biotite	Musc				

MoS2 sparse, disseminated finely, pyrrhotite massive 1% and sericite (talc?) green-white fibrous, soft masses up to 5% locally. Large veins later than 10° - 35° MoS2 banded quartz veins up to 1 cm. - Pyrite - CO_3 (green) heavy on low and high angle fractures.

227.0 - 1 cm MoS2 vein at 40°. 1 - 2 mm vein 30 & 55° with a 1 mm 68° qtz MoS2 vein shows massive MoS2 - pyrite remains high on fractures.

* 230 - 232 1.5 m of core lost.

AMAX MINERALS EXPLORATION TIDEWATER PROPERTY

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DEPTH METRES	GRAPHIC LOG: LITH.	BEDDING	FAULTS	NUMBER OF PIECES	% REC.	ASSAY INTERCEPTS	ASSAY DATA: SAMPLE NO. AND INTERVAL	EST. MoS_2	% MoS_2			VEINS: Qtz	Qtz Py	Qtz MoS_2	Py	MoS_2	Carb	Qtz Py MoS_2	Qtz Pyrh MoS_2	Qtz Pyrh	% MINERALS: K-Feld	Biotite	Musc	Pyrite	Pyrrhotite
226																									
			>	20	133		61205	.20	.060					6					1			10	3.0	1.0	2.0
228				20	100		61206	.05	.010					8								20	1.0	1.0	2.0
230			>	20	35		61207	.01	.012					2		* 1	5 m	lost)	1			15	3.0	1.0	2.0
232				18	97		61208	.01	.006					4					1	3		15	3.0	1.5	2.5
234				9	100		61209	.10	.022					3					2	2		10	4.0	1.5	2.5
236				10	98		61210	.05	.010					4						6		15	3.5	.5	2.0
238				10	97		61211	.05	.017					8								15	1.0	.5	1.5
240				14	100		61212	.01	.006					2					3	1		20	1.0	1.0	1.0
242				17	100		61213	.01	.016					3				1				20	1.0	1.5	1.0
244				12	100		61213	.02						1				1				25	1.0	1.5	2.5
246				9	100			-														25	-	-	2.5
248				15	97		61214	.005	.006					1								25	-	-	2.5
250				15	98		61214	.05						5								20	-	1.0	2.0
252			>	20	100		61215	.02	.004					4			1					20	-	.5	0.5
254																									

NOTES

228.0 - 229.4 - 3 mm MoS2-Qtz veins at 28° -45° (<1 mm) Qtz MoS2 veins spaced 5 - 20 cm apart at 25 - 75° (x4)

229.4 - 232.8 - Black Hornfelsic Argillite Minor Siltstone Fresh surface shows shiny biotite very fine grained and disseminated pyrrhotite up to 3%. Med to fine grained sandy layers light brown - purple on fresh surface. Bedding slightly irregular. - Pyrite heavy on dry fractures.

232.0 - 7.5 cm Qtz Pyrrhotite-Sericite-MoS2 vein Green soft patchy sericite = 5%, pyrrhotite massive <1% MoS2 fine disseminated << 1% - Qtz MoS2 vein 1 mm at 53° with brown pervasive alteration.

232.8 - 241.15 - Purple Hornfelsic Greywacke Minor Argillite-Siltstone.

233.7 - 234.0 - Qtz Pyrrhotite Sericite vein <2 cm at 0 - 5°. Pyrrhotite massive in fractures, sericite (?) Lt. green, associated w/ pyrrhotite

234.0 - 0 - 5° 2 cm Qtz MoS2 banded. Pyrrhotite on small cross fractures - 5 mm MoS2 Pyrrh vein at 30°. Small 1 - 2 mm veins 40 - 60 MoS2 bearing.

234.6 - 236.0 - 0° Qtz-Pyrh-Sericite vein (1.5 cm) Sericite in bunches. Pyrrhotite massive (<2%) 236 - Qtz Pyrrh-Sericite vein at 50° (1.5 cm)

236.2 - 5° Qtz-Pyrrh Sericite veins (1.0-1.5 cm) cut earlier qtz MoS2 veins (banded) at 35 & 55° (x3).

238.5 - CO_3 on low angle fractures. lt green white <1 mm - 6 mm Qtz-MoS2 vein at 10° MoS2 disseminated on selvages.

238.5 - 241.0 - 1 mm Qtz-MoS2 veins, well spaced (1/30 cm) at 35 - 70° (=50° dominant) veins granular, grey. MoS2 disseminated sparsely. 5 & 4 mm MoS2 veins at 72 & 42°.

AMAX MINERALS EXPLORATION TIDEWATER PROPERTY

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DEPTH METRES	GRAPHIC LOG: LITH.	BEDDING	FAULTS	NUMBER OF PIECES	% REC.	ASSAY INTERCEPTS	ASSAY DATA: SAMPLE NO. AND INTERVAL	EST. MoS_2	% MoS_2			VEINS: Qtz	Qtz Py	Qtz MoS_2	Py	MoS_2	Carb				% MINERALS: K-Feld	Biotite	Musc			

NOTES

241.15 - 241.6 - Skarnified Limy Greywacke. lt dark green, med grained granoblastic diopside skarn.

241.6 - 241.9 - Purple Hornfelsic Greywacke - 55° MoS2 Pyrrh vein (3 mm)

241.9 - 242.7 - Skarnified Limy Greywacke - green diopside skarn altered purple-brown pervasive to ~1 mm Qtz Pyrrhotite vein at 78° & 50° Pyrite heavy on high angle fractures.

242.7 - 243.4 - Purple Hornfelsic Argillite - 45° MoS2 vein (2 mm) altered brown pervasively. Grey granular vein, slightly irregular. - 75° 3 mm MoS2 vein. No pervasive alteration.

243.4 - 243.9 - Skarnified limy Greywacke - green diopside skarn, intermittent, - 0° shear fracture with CO_3 - pyrite.

243.9 - 245.0 - Lt Brown Hornfelsic Tuff. Lt brown very fine grained granoblastic. Relatively high qtz content (acidic). - 2 Qtz MoS2 veins at 60 and 15° (.4 & 1.0 cm respectively). MoS2 banded - Pyrite - CO_3 on very low angle shear fractures.

245.0 - 249.5 - Dioritic Feldspar porphyry - med. grained green-grey feldspar biotite-quartz groundmass. Feldspars phenocrysts white-green (sericitized) some euhedral up to 2 mm. Phenocrysts up to 10% groundmass sericitized, chloritized, green. Pyrrhotite disseminated up to 3%.

249.5 - 250.25 - Purple Hornfelsic Greywacke-Argillite & Skarnified Seds. - between dykes, 20° < 1mm Qtz MoS2 vein.

250.25 - 251.15 - Dioritic Feldspar Porphyry. chilled margins.

251.15 - 252.8 - Purple Hornfelsic Greywacke - Feldspar med-fine grained granoblastic - altered light brown. Biotite very fine grained up to 30%, granoblastic.

251.5 - 252.0 - 20° Qtz-MoS2 veins (3 mm) with 40 - 50° ~1 mm offshoots irregular.

AMAX MINERALS EXPLORATION TIDEWATER PROPERTY

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DEPTH METRES	GRAPHIC LOG: LITH.	BEDDING	FAULTS	NUMBER OF PIECES	% REC.	ASSAY INTERCEPTS	ASSAY DATA: SAMPLE NO. AND INTERVAL	EST. MoS_2	% MoS_2			VEINS: Qtz	Qtz Py	Qtz MoS_2	Py	MoS_2	Carb				% MINERALS: K-Feld	Biotite	Musc			

NOTES

252.7 - 5 cm white massive Qtz vein MoS2 disseminated << 1%. vein at 70° offset by 20° CO_3 vein on shear fracture.

252.8 - 257.5 - Black Purple Hornfelsic Argillite Minor Greywacke silver black-purple sheen on fresh surface. Very fine grained biotite.

253.0 - 1 cm white massive Qtz vein at 58° MoS2 extremely low disseminated central to vein.

255.7 - < 5° Qtz-MoS2-Sericite vein. Lt. green patchy spots w/ MoS2 disseminated along selvage and on shear surface as paint - small 1 mm MoS2 veins with brown pervasive alteration at 75°.

AMAX MINERALS EXPLORATION TIDEWATER PROPERTY

DDH TW 79-1
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DEPTH METRES	GRAPHIC LOG: LITH.	BEDDING	FAULTS	NUMBER OF PIECES	% REC.	ASSAY INTERCEPTS	ASSAY DATA: SAMPLE NO. AND INTERVAL	EST. MoS_2	% MoS_2			VEINS: Qtz	Qtz Py	Qtz MoS_2	Py	MoS_2	Carb	Qtz Py MoS_2	Qtz Pyrh MoS_2	Qtz Pyrh	% MINERALS: K-Feld	Biotite	Musc	Pyrite	Pyrrhotite
254																									
				15	98		61216	.005	.002					3								15	~	0.5	1.0
256																									
			?	20	100		61217	.005	.004					3			1					20	~	0.5	1.5
258																									
				21	100												4					25	~	0.5	2.0
260																									
				15	100		61218	.005	.002					1				1		2		20	~	0.5	2.0
262																									
				18	99		61219	.08	.025					4						2		20	1.0	2.0	2.0
264																									
				15	100		61219	.01				2		1	2		2					20	~	2.5	1.5
266																									
				17	97																				
268																									
				16	98																				
270																									
				12	100																				
272																									
				11	98																				
274																									
				14	97																				
276																									
				14	102																				
278																									
				14	100																				
280																									
				15	100																				
282																									

NOTES

257.5 - 260.5 - Dioritic Feldspar Porphyry = 25% biotite - 75% feldspar in medium grained green groundmass. Feldspar sericitized green. Feldspar phenocryst euhedral sericitized. Pyrrhotite disseminated, up to 3%.

260.5 - 263.0 - Black-Purple Argillite Minor Greywacke - small 1 mm MoS2 veins with brown pervasive alteration.

262.43 - 263.0 - lt. green silicified, pyrite-MoS2 rich zone. MoS2 along small fractures <1 mm. Pyrite disseminated = 5%.

263.0 - 263.65 - Dacitic Biotite Feldspar Porphyry med green aphanitic groundmass, chloritic biotite up to 2 mm. Feldspar white-green euhedral 20 med up to 3 mm. Hornfels contact within.

263.65 - 264.85 - Hornfelsic Greywacke-Argillite-Siltstone - into laminated. Laminae up to 1 cm. (bedding at 75°)

267.6 - Qtz Pyrite-Chlorite(?) vein at 20°

264.8 - Qtz MoS2 up to 3 mm(?) at 5° or less.

264.85 - Diorite Feldspar Porphyry. Light to dark green medium grained groundmass. Biotite up to 30% possibly some hornblende or augite up to 5% locally (?) Feldspar in groundmass as anhedral or small <1 mm laths. Feldspar phenocrysts up to 5% as irregular bunches or euhedral laths. prismatic. Phenocrysts altered to lt. green sericite as well as groundmass plagioclase. Twinning observed locally. Pyrrhotite very fine grained, disseminated as light brown granular material in groundmass, and central to sericitized plagioclase.

272.2 - Groundmass fine grained variety.

AMAX MINERALS EXPLORATION TIDEWATER PROPERTY

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DEPTH METRES	GRAPHIC LOG				% REC.	ASSAY INTERCEPTS	ASSAY DATA					VEINS									% MINERALS						NOTES
	LITH.	BEDDING	FAULTS	NUMBER OF PIECES			SAMPLE NO. AND INTERVAL	EST. MoS_2	% MoS_2			Qtz	Qtz Py	Qtz MoS_2	Py	MoS_2	Carb				K-Feld	Biotite	Musc				
284																											
286																											
288																											
290																											
292																											
294																											
296																											
297.49 298																											