VANGORDA GRUM

DIAMOND DRILL RECORDS

SURFACE

018536

75-A76 to A90
May to July 1975

75 - A76 to A90 (Typed)

DIAMOND DRILL RECORD

LOGGED BY S. D. Reamsbottom

PROPERTY VANGORDA, GRUM JOINT VENTURE

D.D.H. No. 75-A76 PAGE 1 of 12

LATITUDE LINE GRID 7 + 96N (35085.21N) (10,998.77mN)

DEPARTURE 79 + 94W (24801.56E) (7559.52mE)

ELEVATION 4264' (4305.71') (1312.38m)

6 HIW BY TROPARI

BEARING OF HOLE 202' -- 129° 50'; 402' -- 137° 50'; 602' -- 145° 44'; 802' -- 141° 50'; 1002' -- 153° 44'; 1272' -- 136

DIP OF HOLE BY TROPARI

DIP TESTS 202' -- -89°; 402' -- -84°; 802' -- -79° 45'; 1002' -- -83°; 1272' -- -83°

STARTED May 17, 1975 D.S.

COMPLETED May 26, 1975 D.S.

Proposed:

DEPTH Ultimate: 1336' (407.21m)

HOLE SIZE BW 0 - 62'; BQ 62 - 1336'

CLAIM No.

DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
0	18.9 62	OVERBURDEN													
62	20.6 67.5	GREEN-GRAY, QUARTZ - CHLORITE - SERICITE PHYLLITE Abundant thin (1-2 mm) white quartz carbonate veins. Massive texture. Core Angle: 60°.													
67.5	28.7 94.3	DARK GRAY, QUARTZ - SERICITE - GRAPHITE PHYLLITE Rock well laminated. More graphitic 83-91'. Thin quartz laminae altered with micaceous laminae. Minor pyrite. Core Angle: 70' = 76° (21.3), 80' = 69° (24.4), 90' = 76° (27.4).	2/5		73	78									
94.3	32.3 106	PALE, QUARTZ - SERICITE - PHYLLITE. MINOR CHLORITE Quite massive texture as sericite rich. Thin (2-3 mm) white quartz carbonate veins in foliation. Core Angle 100' = 70°. F2 folds defined by quartz carbonate layers. Recovery good.													
106	40.8 134	GRAY QUARTZ - SERICITE PHYLLITE Good F2, F1 subvertical. Blebs of pyrite marcasite. Grades to graphite phyllite. Good F1-F2 laminae. Note F3 kinks @ 129'. Core Angle: 110' = 76° (33.5), 120' = 72° (36.6), 130' = 75° (39.6).	1.5/2	Mud	106	108									

DIAMOND DRILL RECORD

LOGGED BY S. B. Reamsbottom

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
40.8 134	50.6 166	BLACK STRIPED CONTORED GRAPHITE-PHYLLITE													
		Again good F1-F2 relationships. F1 subvertical to F2. Many small-scale F2 folds. Blebs of pyrite. Veins with crystalline calcium carbonate.		Excellent Recovery											
		Core Angle: 140' = 75°, 150' = 67°, 160' = 63°, F2 folds. 42.7 45.7 48.7													
166	111.7 366.5	DARK GRAY, STRIPED QUARTZ - SERICITE PHYLLITE. MINOR GRAPHITE													
		Faint greenish tinge where chlorite rich except 300-350'. Same structure features as above - good F1-F2 etc.	0.5/2	Wash Out	245	247									
		Quartz veins at 179', 181', 185' and 204-206'. Creamy carbaonate in these. Blebs of pyrite, marcasite throughout. Many F2 folds	1/4		258	262									
		240-260'. F3, F2 lineations sub-parallel. Good recovery. Core Angle: 170' = 70 , F2 folds. F1 subvertical. 180' = 56°,	3.8/10		286	296									
		200' = 72° good F2 folds, 210' = 85°, 210' = 67°, 220' = 76°, 230' = 60°, 240' = mud, 250' = 72°, 280' = 60°, 270' = 67°, 280'	3.2/10		296	306									
		= 57°, 300' = 67°, 320' = 76°, 330' = 85°, F1 subvertical, 340' = 78°, 350' = 72°, 360' = 75°.	2/6		309	315		Recovery Poor.							
		Note: 328' -- F2-F3 fold axis plus lineations perpendicular.	4/6		320	326		Rock broken, gouged.							
			2.9/6		338	343									
			0.5/3.0		344	347.6									
366.5	112.6 369.5	BLACK, CONTORTED QUARTZ - GRAPHITE PHYLLITE													
		Minor blebs of pyrite.													

DIAMOND DRILL RECORD

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LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

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CLAIM No.

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
112.6	116.0														
369.5	380.6	SULPHIDE ZONE: MARIPOSITE PHYLLITE GRADES TO QUARTZITIC													
		SERICITE PHYLLITE WITH RED SPHALERITE, MINOR PYRITE, GALENA. Quartzitic phylllite parted by mariposite phyllite. Brecciated	3	1582	371.0	374.0	3.0	2.10	4.44	.59					
		last few feet. Note late tension gashes filled with pyrite, sphalerite.	1.5/45		374.0	378.5	—								
		No. 1582 -- quartz rich sericite phyllite (almost quartzite) - 8% sulphide, 4-5% lead-zinc	2	1583	378.5	380.5	2.0	1.50	2.46	.68					
		No. 1583 -- quartz rich sericite phyllite, brecciated, infilled carbonate, 3-4.5% sulphide, 2% lead-zinc													
		Core Angle: 370' = 70°.													
380.6	121.3 398	DARK GRAY MODERATELY GRAPHITIC PHYLLITE													
		Poor recovery, rock broken.	1.2/4.5		380.5	385									
		Core Angle: 380' = 65°, 390' = 80°.													
			1.3/4.5		385	389.5									
			2.7/4.5		389.5	394									
			0.4/4		394	398									
	132.4														
398	434.5	PALE GREEN-GRAY QUARTZ - SERICITE PHYLLITE WITH LOCAL GREEN CHLORITE													
		Creamy colour due to buff-cream quartz carbonate veins and			Good Recovery										
		laminae. Quartz-chlorite veins. Quartz laminae (2-3 mm) define F1. Rock more chloritic from 415 to end of section.													
		Core Angle: 400' = 75°, 410' = 75°, 420' = 70° / 430' = 82° / F2 folds.													

DIAMOND DRILL RECORD

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PROPERTY

LATITUDE | BEARING OF HOLE | STARTED

DEPARTURE | DIP OF HOLE | COMPLETED

ELEVATION | DIP TESTS | DEPTH Proposed: Ultimate:

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CLAIM No.

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Sample Footage From	Sample Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
132.4 434.5	135.6 445	DARK GRAY QUARTZ - SERICITE PHYLLITE -- STRIPED, CRENULATED													
		Many F2, F3 folds. Note late kink, box-type F3, deform F2 folds and slip surfaces.		Recovery Good.											
		Core Angle: 440' = 64°.													
445	139.5 457.8	BLACK STRIPED QUARTZ - GRAPHITE PHYLLITE													
		Essentially same rock as above with more graphite. Same structural features. Minor pyrite. Rocks muddy from 444-447'.		Good Recovery.											
		Core Angle: 76° @ 445'.													
457.8	149.3 489.9	SULPHIDE ZONE													
		Upper 8-10 feet of more massive banded pyrite sulphide, red sphalerite, pyrrhotite in first few feet. Grades to striped	3.2	1584	457.8	461	3.2	6.70	10.65	1.82			21.44	34.08	5.82
		mineralized quartz-graphite phyllite with sulphides concentrated mainly in F2 laminae. Thin green mariposite-sericite-carbonate	4.3	1585	461	466.2	5.2	4.65	7.20	1.94			24.18	37.44	10.09
		phyllite partings. Within phyllite grade varies 2-3% lead-zinc to 8% lead-zinc. Note, vertical post mineralized small-scale	4.8	1586	466.2	471	4.8	3.75	5.28	1.53			18.00	25.344	7.344
		faults.	1.8		471	472.8	—	Mariposite phyllite							
		No. 1584 -- M.S. - pyrite, red sphalerite, quartz-eyes, black magnetite, 75% sulphide, 10-15% lead-zinc	5.8	1587	478.8	478.6	5.8	2.23	3.84	.88			12.93	22.27	5.10
		No. 1585 -- M.S. -- banded: pyrite, sphalerite, minor pyrrhotite Locally thin brecciated zones. 70% sulphide, 15-20% lead-zinc	4	1588	478.6	482.6	4.0	2.63	3.48	.82			10.52	13.92	3.28
		No. 1586 -- Mineralized, striped quartz-graphite phyllite, 15-20% sulphide, 8% lead-zinc, blebs of galena	7.3	1589	482.6	489.9	7.3	1.90	1.68	.71					
		No. 1587 -- Mineralized striped quartz-graphite phyllite, 10-15% sulphide, 6-8% lead-zinc													
		No. 1588 -- Mineralized striped quartz-graphite phyllite, 10-15% sulphide, 8% lead-zinc		Wt. Av	457.8	471.0	13.2	4.82	7.34	1.76	(60.4 oz/ton)		63.62	96.864	23.256

DIAMOND DRILL RECORD

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PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

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CLAIM No.

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Sample Footage From	Sample Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
		No. 1589 -- quartz-graphite phyllite - 5% sulphide, 2- 3% lead-zinc.										Weighted Average			
		Core Angle: 60° @ 480'.			472.8	482.6	9.8	2.39	3.69	.86	(29.3)		23.45	36.19	8.38
149.3 489.9	154.8 508	ZONE OF CREAMY-WHITE QUARTZ - SERICITE - MARIPOSITE PHYLLITE													
		WITH PARTINGS OF BLACK QUARTZ - GRAPHITE PHYLLITE													
		Pale phyllites altered, minor green mariposite. Good F2 folds.													
		Minor pyrite, red sphalerite in F2 planes in graphite phyllite.													
		Core Angle: 490' = 75-85°, vertical F1, folded by F2, 500 ' = 80°. F1 subvertical.													
508	170.9 561	BLACK,STRIPED QUARTZ - GRAPHITE PHYLLITE													
		Many F2. Contorted. Slip planes also folded. Blebs of pyrite and pyrrhotite, pyrite mantles pyrrhotite. Rock quartz veined,		Recovery Good.											
		broken from 500-514'.													
		Core Angle: 510' = 75°, 520' = 75°, F2 folds, 530' = 75°, 540' = 70°, 550' = 75°, 560' = 72°, F2 folds.													
561	181.2 594.5	GRAY QUARTZ - SERICITE PHYLLITE													
		Clean. F1 closely spaced, dominant. F1 subvertical. Minor pyrite-pyrrhotite. Very phyllitic, few quartz laminae. Chlorite		Recovery Good.											
		concentrated locally in quartz veins.													
		Core Angle: 570' = 75°, 580' = 82°, 590' = 85°.													

DIAMOND DRILL RECORD

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LATITUDE BEARING OF HOLE STARTED

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ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

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FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
181.2 594.5	183.6 602.5	BLACK STRIPED QUARTZ - GRAPHITE PHYLLITE													
		Good F2 folds defined by alternating quartz-graphite laminae. Note, concentration of red sphalerite in foliation. Minor		Excellent Recovery.											
		pyrite-pyrrhotite. Note, rehealed brecciated graphitic phyllite @ 599'. Healed by quartz-feldspar veins with minor pyrite.													
		Core Angle: 70° @ 600'.													
602.5	251.2 824.2	GRAY QUARTZ - SERICITE PHYLLITE													
		Same as unit above (561-594.5') Minor pyrite blebs. Core Angle: 610' = 74°, 620' = 74°, 630' = 66°, 640' = 60°,		Excellent Recovery											
		660' = 80°, 670' = 67°. Note: quartz veins (1-2") at 634-665'. In this zone phyllite													
		sericite rich. Also has minor chlorite. Pyrrhotite blebs in quartz veins - 657'.													
		Unit becomes broken at 698-716'. Note thick monotenous section. Minor chlorite 670' on. Rock bleached last 3 feet to sulphide.	1.5/6		698	704		Tube failed to lock.							
		Core Angle: 680' = 72°, 690' = 70°, 700' = 75°, 710' = 65°,	1.4/2		704	706									
		720' = 80°, local F2 fold noses, 730' = 87°, 740' = 84°, 750' = 76°, 760' = 82°, 770' = 78°, 780' = 72°, 790' = 72°, 800' = 75°,	1/2		706	708									
		810' = 70°, 820' = 65°. Rock muddy at 810-811'.													
824.2	252.8 829.5	SULPHIDE ZONE													
		Massive banded red sphalerite-pyrite-galena with thin (0.5')	5.3	1590	824.2	829.5	5.3	9.34	13.23	4.12					
		partings of quartz-sericite phyllite. Minor pyrrhotite. Quartz-													
		barite (?) sericite gangue. 60-70% sulphide, 20% lead-zinc. Core Angle: 79° @ 825'.													

DIAMOND DRILL RECORD

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CLAIM No.

N — DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Sample Footage From	Sample Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
252.8 829.5	259.7 852	GRAY QUARTZ - SERICITE PHYLLITE													
		Slightly bleached 1 foot next sulphide. F2 foliation dominant ; minor pyrite-pyrrhotite.													
		Core Angle: 830' = 89°, 840' = 78°, 850' = 74°.													
852	276.7 908	DARK GRAY-BLACK STRIPED QUARTZ - GRAPHITIC PHYLLITE													
		1-2% sulphide at 868-871'. Fine grained red sphalerite, pyrite, galena and minor pyrrhotite. F2 folds well formed. Minor													
		sphalerite-pyrite-galena @ ~~889—889.7~~	~~1.7~~		889	889.7		6-8 lead-zinc estimate							
		Core Angle: 860' = 79°, 870' = 80° / F2 fold noses, good F2 slip.													
		Better zone of sulphide 900.3-906.3'.													
		No. 1591 -- weak mineralized graphite phyllite - 6% sulphide, 3-4% lead-zinc	6	1591	900.3	906.3	6.0	2.45	5.52	1.32					
		Core Angle: 880' = 72°, F2 folds, 890' = 80°, 900' = 74°, 910' = 79°.													
908	280.8 921.3	GRAY QUARTZ - SERICITE PHYLLITE													
		Core Angle: 920' = 61°.													
921.3	287.4 943	SULPHIDE ZONE													
		Mainly mineralized quartz-graphite phyllites with partings of slightly bleached gray quartz-sericite phyllite. Within	5.0	1592	921.3	926.3	5.0	2.30	3.18	1.03					
		sulphide sections content varies 5-50%. Mainly red sphalerite pyrite - galena (fine-grained)	7.1 / 2.9	1593	926.3 / 933.4	933.4 / 936.3	— / 2.9	6.94	7.68	2.68			20.126	22.272	7.772

DIAMOND DRILL RECORD

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PROPERTY

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LATITUDE BEARING OF HOLE STARTED CLAIM No.

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
								(0.2)	(0.3)	(0.03)	+ve		.28	.42	.042
		No. 1592 -- Mineralized striped quartz-graphite phyllite, 5-6% sulphide, 3% lead-zinc			936.3	937.7		0.5% lead-zinc estimate							
		No. 1593 -- band sulphide in phyllite gangue - 50-60% sulphide, 10% lead-zinc	5.3	1594	937.7	943	5.3	5.18	4.92	1.85			27.454	26.076	9.805
		No. 1594 -- 40% sulphide, pyrite, sphalerite, galena, minor chalcopyrite, 10% lead-zinc		Wt. Av.	933.4	943.0	9.6	4.99	5.08	1.84	(62.9)		47.860	48.768	17.619
287.4 943	292.8 960.7	BLEACHED WHITE QUARTZ - SERICITE PHYLLITE													
		With abundant quartz veins (1-2') Minor pyrite in foliation. Core Angle: 940' = 75°, 950' = 82°, 960' = 70°.	17.7		943.0	960.7	—								
960.7	293.4 963.2	MASSIVE BANDED PYRITIC SULPHIDE													
		Good F2 folds. 70-90% sulphide; pyrite, red sphalerite, galena. 20% lead-zinc.	2.5	1595	960.7	963.2	2.5	9.45	14.36	3.38					
963.2	325.5 1068	GRAY QUARTZ - SERICITE PHYLLITE													
		With thin (0.5') bands of cream quartz-sericite phyllite. Quartz veins with minor chlorite. Blebs, stringers of pyrite.													
		Core Angle: 970' = 45°, 980' = 62°, 990' = 83°, 1000' = 83°, 1010' = 76°, 1020' = 72°, 1030' = 76°, many F2 folds, 1040' = 80°, 1050' = 71°, 1060' = 75°.													
		Note, bleached quartz-sericite phyllite (1059-1061.5')													

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Sample Footage From	Sample Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
325.5 1068	331.6 1088	MAINLY PALE GREEN QUARTZ - CARBONATE - SERICITE PHYLLITE													
		WITH PARTING OF BLACK STRIPED MINERALIZED GRAPHITE PHYLLITE													
		Good F2 folds in graphite phyllite. Green mariposite in first 1 foot of section. Rock is soft, talcy. CC filled mini-fault breccia zones.	6.5/ 6.5		1070.5	1077		0.5-1% lead-zinc estimate 1-3% pyrite							
1088	339.9 1115.2	DARK GRAY STRIPED GRAPHITIC PHYLLITE. MINERALIZED.													
		Thin quartz laminae alternate with black graphitic laminae. 3-4% sulphide - mainly pyrite concentrated in quartz lamiae... F1 laminae. Pyrite has bleby texture.													
		No. 1596 -- weak mineralized graphite phyllite. 0.5-1% lead-zinc			1091.0	1092.7		Estimate 0.5% lead-zinc							
		of above phyllite. Gashes with blebs of chalcopyrite	3	1596	1105.4	1108.4	3.0	.10	.10	.03					
		No. 1597 -- massive sulphide 70-80% sulphide, 20% lead-zinc													
		No. 1598 -- mineralized graphite phyllite - 3% sulphide, 0.5%-1% lead-zinc	1.7	1597	1108.4	1110.1	1.7	6.44	11.65	2.00					
		Note blebs of pyrite-pyrrhotite at 1114-1115'.	3	1598	1110.1	1113.1	3.0	.02	.06	.03					
			17.9 7.5	— 1599	1113.1 1121.0	1121.0 1128.5	— 7.5	2.35	3.48	1.03					
1115.2	343.9 1128.5	SULPHIDE ZONE WITH GRAY PHYLLITE AND GREEN QUARTZ - CHLORITE -													
		SERICITE PHYLLITES													
		Thin banded sulphides in zone with late quartz veins and soft sheared													
		quartz-sericite-chlorite phyllite. Note healed mini fault													
		breccia adjacent to first band of massive sulphide. F2 fold nose													
		in banded sulphide at 1125.5'.													

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PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Sample Footage From	Sample Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
		No. 1599 -- bands of massive banded sulphide (0.5-2') in quartz vein altered gray, and green quartz-sericite-chlorite phyllites: pyrite, sphalerite, galena. Some c. g. crystals. Sulphide bands 10+, average 4-6% lead-zinc in section possibly.													
		Core Angle: 1090' = 77°, F2 folds; 1100' = 85°, 1110' = 73°, 1020' = 76°, 1130' = 86°.													
343.9 1128.5	348.1 1142.2	GRAY QUARTZ - SERICITE PHYLLITE													
		With buff thin (1mm) carbonate stringers. Minor pyrite. Core Angle: 1130' = 55°, 1140' = 60°.													
1142.2	351.4 1153	PALE WHITE BLEACHED QUARTZ - SERICITE PHYLLITE													
		Band sulphide 1145-1146' - pyrite, pyrrhotite, sphalerite, chalcopyrite in gashes. 20% sulphide, 11% lead-zinc. Core Angle: 1150 = 83°.			1144.5	1146	1.5	11% lead-zinc estimate							
1153	357.5 1173	GRAY QUARTZ - SERICITE PHYLLITE													
		Quartz veins with buff carbonate. Small-scale fractures rehealed Core Angle; 1160' = 60°, 1170' = 60°.													
1173	364.8 1197	PALE BLEACHED QUARTZ - SERICITE - CHLORITE PHYLLITE													
		Stringers of pyrite in fracture network. Greenish where more chlorite present. Blebs of sphalerite @ 1181'.													

DIAMOND DRILL RECORD

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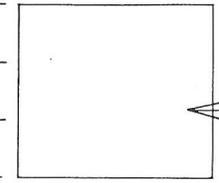
LATITUDE BEARING OF HOLE STARTED CLAIM No.

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:



DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
		Core Angle: 1180' = 67°, 1190' = 71°.													
364.8 1197	366.5 1202.3	SULPHIDE ZONE													
		Breccia, massive sulphide with parting of bleached quartz-sericite phyllite at 1198-1201'. Sulphide: 50-70% pyrite, 15-20%	5.0	1600	1197	1202.3	5.3	4.35	4.44	1.53					
		lead-zinc. Average 10% over section. Core Angle: 1201' = 72°. Note barite, gypsum in fractures.													
		-													
1202.3	367.8 1206.7	BLEACHED WHITE QUARTZ - SERICITE PHYLLITE WITH 1.5 FEET OF													
		BLACK GRAPHITE PHYLLITE	/4.4		1202.3	1206.7									
1206.7	318.7 1242.5	MASSIVE BANDED PYRITE SULPHIDE	5.3	1901	1206.7	1212	5.3	3.15	3.06	1.18					
		More quartz feldspar veins from 1220' onwards. 50-90% sulphide: pyrite, red sphalerite, galena, minor magnetite, pyrrhotite	4.0	1902		1216	4.0	1.00	0.31	0.35					
		and chalcopyrite. Grade varies 6-15%. possible average 8-10%.	5.0	1903		1221	5.0	4.73	3.60	1.41			23.65	18.00	7.05
		Note subvertical open-space fractures infilled with white barite rosettes.	4.0	1904		1225	4.0	1.60	0.22	0.29			6.40	0.88	1.16
		No. 1901 -- M.S. 80% sulphide, 1-2% magnetite, 10-12% lead-zinc											18.795	14.70	4.935
		No. 1902 -- massive brecciated pyrite, 70% sulphide, 2-3% lead-zinc	3.5	1905		1228.5	3.5	5.37	4.20	1.41					
		No. 1903 -- M.S. 80% sulphide, 15-20% lead-zinc	4.0	1906		1232.5	4.0	0.59	0.27	0.32			2.36	1.08	1.28
		No. 1904 -- M.S. - pyrite with C.G. quartz-feldspar. Low lead-zinc possibly 3%	5.5	1907		1238	5.5	5.03	3.66	1.47			27.665	20.13	8.085
		No. 1905 -- Banded sulphide - 50-60% sulphide: 8% lead-zinc, Note magnetite, bands of white barite, tension gashes with chalcopyrite	4.5	1908		1242.5	4.5	4.05	3.42	1.15			18.225	15.39	5.175

DIAMOND DRILL RECORD

LOGGED BY S. B. Reamsbottom

PROPERTY

D.D.H. No. 75-A76 PAGE 12 of 12

LATITUDE BEARING OF HOLE STARTED CLAIM No.

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

N

DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
		No. 1906 -- banded sulphide in quartz-sericite gangue. 50%		Wt. Av.	1216.0	1242.5	26.5	3.66	2.65	1.04	(35.8)		97.120	70.18	27.685
		sulphide: pyrite, minor sphalerite, galena, pyrrhotite, magnetite, chalcopyrite in gashes. Magnetite crystals. 3-5% lead-zinc.		Wt. Av.	1216.0	1228.5	12.5	3.91	2.69	1.05	(36.1)		48.845	33.58	13.145
		No. 1907 -- as above, banding more obvious as darker pyrrhotite, magnetite, sphalerite. 60-70% sulphide; 6-9% lead-zinc. Veins of white barite. 1-2% magnetite.		Wt. Av.	1232.5	1242.5	10.0	4.59	3.55	1.33	(45.5)		45.915	35.52	13.260
		No. 1908 -- as above. 3% magnetite. 6-8% lead-zinc. Core Angle: 1210' = 75°, 1220' = 60°, 1230' = 50°, 1240' = 67°.													
378.7 1242.4	404.2 1326	PALE WHITE BLEACHED QUARTZ - SERICITE PHYLLITE													
		With buff carbonate in foliation. Abundant stringers, blebs of pyrite and pyrrhotite. Rock broken locally. Note biotite at													
		1282-1287'. Pyrrhotite @ 1279-1307'. Core Angle: 1250' = 70°, 1260' = 79°, F2 folds, 1270' = 47°,	6/10		1264	1274									
		1280' = 70°, 1290' = 67°, 1300 = 65°, 1310' = 75°, 1320' = 66°.													
1326	407.2 1336	GRAY QUARTZ - SERICITE PHYLLITE			Good Recovery										
		Note network of quartz-carbonate veins. Minor pyrite. Core Angle: 1330' = 75°. Rock broken but recovered (cored).													
	1336	END OF HOLE													
		REMARKS: 1. Cemented hole from 1336' upwards (9 bags of cement)													

DIAMOND DRILL RECORD

LOGGED BY F. Chow

PROPERTY VANGORDA, GRUM JOINT VENTURE

D.D.H. No. 75-A77 PAGE 1 of 15

CLAIM No.

LINE GRID / HIW

LATITUDE 1 + 99 S / 34267.99N (10,444.88mN) BEARING OF HOLE BY TROPARI @ 172' - 68° 50' True Azim; @ 342' - 78° 08'; @ 542' - 71° 50'; @ 742' - 70° 56'; @ 942' - 72° 26'

DEPARTURE 64 W / 25261.27E (7699.64mE) DIP OF HOLE BY TROPARI @ 172' - -87° (-90°); @ 342' - -83°; @ 542' - -79°; @ 742' - -79°; @ 942' - -77°

ELEVATION 4151.68 ASL / 4193.68' (1278.23m) DIP TESTS

STARTED May 22, 1975 D.S.

COMPLETED May 29, 1975 A.S.

DEPTH Proposed: 950' Ultimate: 1002' (305.41m)

HOLE SIZE 0-64 37/8" Tricone; 64-1002 BQ

DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
0	68	OVERBURDEN Triconed to collar + 64'	Nil		0	64									
		64-68' -- small granitic boulders and fine till	2.7/4		64	68									
68	71.5	QUARTZ - SERICITE PHYLLITE Altered													
		30-60% quartz-feldspar, greenish-buff colour. 70-71.5' sheared, leached, soft. No weathering indicated - no rust.	2.9/3.5		68.0	71.5									
		Core Angle: 70-75° to 71'.													
71.5	77.0	QUARTZ - SERICITE - GRAPHITE PHYLLITE Medium gray.													
		65-70% quartz-feldspar, siliceous and hard, 5-10% graphite.	3/5.5		71.5	77.0									
77.0	104.5	QUARTZ - SERICITE PHYLLITE Altered													
		45-50% quartz-feldspar, light-gray to medium gray to gray-buff in colour.	14.5/15 4.7/6		77.0	92.0 98.0									
		93.5-101' - sheared, brecciated parts, also gougey parts	4.9/6.5			104.5									
		Core Angles: 80° @ 73', 70° @ 76', 90° @ 77.5', 70° @ 80', 40° @ 84', 60° @ 87', 50° @ 89-95', 70° @ 96-104'.													

DIAMOND DRILL RECORD

LOGGED BY F. Chow

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

D.D.H. No. 75-A77 PAGE 2 of 15

CLAIM No.

N

DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
104.5	170	QUARTZ - SERICITE PHYLLITE Altered. Parts bleached buff.													
		40% quartz-feldspar. Medium to dark gray except for bleached buff sections @ 120-122', 124.5-126.5' and @ 133-139'. Negligi	13.4/15.5		104.5	120.0									
			7.1/8			128.0									
		ble pyrite noted. Section highly sheared in numerous places,	3.9/5		128.0	133.0									
		rocks contorted and fractured. Non-competent rocks. 168-170'	14/14			147.0									
		- abundant mariposite.	0.9/2			149.0									
			5.7/8			157.0									
		Core Angles: 60° @ 105'-114', 50° @ 118', 70° @ 124', 55° @ 126'	0.6/6			163.0									
		70° @ 129', 50° @ 133', 60° @ 136', 40° @ 141', 30°	1.7/5			168.0									
		@ 143', 40° @ 152', 50° @ 154', 40° @ 164', 50° @	0.4/2			170.0									
		166'.													
170.0	194.0	QUARTZ - GRAPHITE PHYLLITE													
		45-50% quartz-feldspar, banded, thinly foliated, local F1 poorly	11/13		170.0	183.0									
		developed. Highly fissile. Moderate fracturing. Shearing at	2.1/4			187.0									
		183.5-185', 192-193'. Zone of high stress, probably fold nose.	1.8/2			189.0									
			2/5			194.0									
		Core Angles: 40° @ 171', 70° @ 172', 75° @ 175', 70° @ 176',													
		80° @ 179', 70° @ 180', 40° @ 188-194', 25° @ 194.5													
		-196', 10° @ 196.5', 20° @ 197.5'.													
194.0	198.0	QUARTZ - SERICITE PHYLLITE Bleached													
		Grayish-buff colour, sericitic, 30% quartz, minor pyrite with	2.7/4		194.0	198.0									
		quartz veinlets.													

DIAMOND DRILL RECORD

LOGGED BY F. Chow

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

D.D.H. No. 75-A77 PAGE 3 of 15

CLAIM No.

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
198.0	219.0	QUARTZ - GRAPHITE PHYLLITE Black													
		As 170-194'. Zone of high stress - probably structural nose.	8.3/9		198.0	207.0									
			4.9/12			219.0									
		Core Angles: 35-30° @ 198-214.5', 65° @ 215-219'.													
219.0	222.0	FAULT													
		Quartz-sericite-graphite phyllite chips and gouge.	1.6/3		219.0	222.0									
222.0	284.8	QUARTZ - SERICITE ± GRAPHITE PHYLLITE Dark gray													
		30-35% quartz-feldspar, 1-4% graphite. Well foliated, minor	15/15.5		222.0	237.5									
		tight shears noted but larger shears probably exist as core	4/5.5			243.0									
		recovery is low in some sections. Rock is fissile and core	8.4/9			250.0									
		broken.	8.5/19.5			271.5									
		Core Angles: 40° @ 222', 50° @ 225', 75° @ 226', 65° @ 228',	5/5			276.5									
		60° @ 230', 50° @ 233', 40° @ 237', 50° @ 238',	4.4/8.3			284.8									
		65° @ 242', 70° @ 244', 65° @ 245', 30° @ 355',													
		60° @ 259', 45° @ 262', 75° @ 265', 70° @ 268',													
		80° @ 273', 75° @ 276', 65° @ 277.5'-284'.													
284.8	304.5	QUARTZ - SERICITE PHYLLITE Altered and bleached.													
		50-60% quartz-feldspar. Bleached mainly to buff colour, partly	14/14.2		284.8	299.0									
		silicified.													

DIAMOND DRILL RECORD

LOGGED BY F. Chow

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

D.D.H. No. 75-A77 PAGE 4 of 15

CLAIM No.

N — DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
			0.5/4		299.0	303.0									
		289-294.6' -- mainly gray alteration													
		-297.9' -- brecciated and recemented, last 0.8' much maripo-site													
		Rocks highly sheared, also fractured.	1/1.5			304.5									
		Core Angles: 65° @ 285', 70° @ 286-294', 60° @ 295', 70° @ 298'.													
304.5	320.5	QUARTZ - SERICITE - GRAPHITE PHYLLITE Dark gray													
		50% quartz-feldspar, 25% sericite, 25% graphite. Banded quartz-ose bands with thin foliations of sericite-graphite. F1 mod-	12.9/16		304.5	320.5									
		erately developed.													
		Core Angles: 70° @ 305-316', 55°@ 317', 60° @ 319', 75° @ 322'.													
320.5	340.0	QUARTZ - SERICITE - CHLORITE PHYLLITE Bleached													
		20-30% (?) quartz-feldspar, 20-25% chlorite. Chlorite occurs in discontinuous bands. Shearing @ 328.7-330.3' and @ 335-336'.	11.8/12.5		320.5	333.0									
		Rock is soft and weak.	5.8/7			340.0									
		Core Angles: 55°@ 326', 45° @ 330', 50° @ 332', 40° @ 335', 35° @ 337-340'.													
340.0	353.0	QUARTZ - SERICITE ± GRAPHITE PHYLLITE Medium gray.													
		50-55% quartz-feldspar. Banded, minor graphite locally. Fissile Slightly altered.	1.7/8		340.0	348.0									
		Core Angles: 50° @ 341', 40° @ 350-354', 50° @ 355', 55° @ 357-360'.	4.5/5			353.0									

DIAMOND DRILL RECORD

LOGGED BY F. Chow

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

D.D.H. No. 75-A77 PAGE 5 of 15

CLAIM No.

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
353.0	377.5	QUARTZ - GRAPHITE ± SERICITE PHYLLITE													
		50-55% quartz-feldspar. Minor sericite. Thinly laminated. Fissile. Highly sheared.	3.4/12 1/1		353.0	365.0 366.0									
		365 (?)-365.7' -- fault gouge; 372.5-373.3' -- sheared and brecciated.	5.8/11.5			377.5									
		Core Angles: 75° @ 367', 45° @ 370', 60° @ 375', 65° @ 377'.													
377.5	383.5	QUARTZ - SERICITE PHYLLITE WITH SULPHIDES			115.06		1.8								
		Sericitic, bleached phyllite, talcy with brecciated parts at 377.5-380', 5% pyrite, 4% lead-zinc.	3.9	1497	377.5	383.5	6.0	.85	.78	.41					
		380-382' -- gray phyllite, barren -383.5' gray, also bleached sericite, and massive pyritic sulphides, 0.5% lead-zinc													
		Core Angles: 55° @ 378', 40° @ 379', 85° @ 381'.													
383.5	406.0	MASSIVE SULPHIDES AND SULPHIDE BRECCIA					1.4								
		383.5-385.0' -- 50-60% pyrite, 0.5% magnetite, 7% lead-zinc, clusters of chalcopyrite	2.7	1498	383.5	388.2	4.7	3.45	2.82	1.00		6.27			
		-388.2' -- 50-60% pyrite, 0.1% magnetite, 9% lead-zinc -390.5' -- 75% pyrite, 0.5% lead-zinc	2.0	1499		390.5	2.3 0.7	1.28	.64	.71		1.92			
		-393.0' -- 80% pyrite, 6% lead-zinc -398.2' -- 70% pyrite, 8% lead-zinc	6.5	1500		398.2	7.7 2.3	3.60	2.88	1.88		6.48			
		-406.0' -- sulphide and feldspar breccia, 4.5% pyrite, 1% lead-zinc	6.3	1801		406.0	7.8 2.3	.73	.52	.44					
		Zone appears to be highly fractured (core broken up). Highly sheared from 401.5-405'.													

DIAMOND DRILL RECORD

LOGGED BY _____

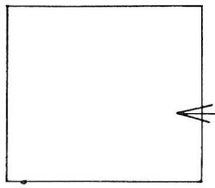
PROPERTY _____

D.D.H. No. 75-A77 PAGE 6 of 15

LATITUDE _____ BEARING OF HOLE _____ STARTED _____

DEPARTURE _____ DIP OF HOLE _____ COMPLETED _____

ELEVATION _____ DIP TESTS _____ DEPTH Proposed: _____ Ultimate: _____



CLAIM No. _____

DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
		Core Angles: 60° @ 386', F2 fold nose (?) @ 390', 65° @ 393', 40° @ 394', 75° @ 398', 50° @ 400', 45° @ 405'.													
406.0	408.5	FAULT													
		Quartz-sericite gouge and breccia	2/2.5		406.0	408.5									
408.5	413.5	QUARTZ- SERICITE PHYLLITE Bleached													
		55% quartz-feldspar, bleached to buff colour.	1.2/ 1.5		408.5	410.0									
413.5	421.0	QUARTZ- SERICITE PHYLLITE Medium gray.													
		50-55% quartz-feldspar. Slightly altered, moderately fractured. 45° shear @ 420.6'.	10.6/ 11		410.0	421.0									
		Core Angles: 60° @ 409', 70° @ 411-420', 60° @ 422', 55° @ 426', 80° @ 428'.													
421.0	435.0	QUARTZ- SERICITE - CHLORITE ± CALCITE PHYLLITE Light greenish gray.													
		30% quartz-feldspar, 5-10% chlorite, 10-15% calcite. Thinly banded, moderately fissile. Minor F1, local, poor.	12.8/ 14		421.0	435.0									
		Core Angles: 75° @ 429', 70° @ 430', 75° @ 434'.													

DIAMOND DRILL RECORD

LOGGED BY F. Chow

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

D.D.H. No. 75-A77 PAGE 7 of 15

CLAIM No.

N

DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Sample Footage From	Sample Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
435.0	459.0	QUARTZ - SERICITE - CALCITE PHYLLITE 30% quartz, 5% (?) calcite, local chlorite, soft. Medium gray. Thinly banded. Calcite occurs with quartz bands (fizzes vigorously with hydrochloric acid) Rock very weak. Core Angles: 55° @ 438', 50° @ 441', 65° @ 444', 75° @ 445', 55° @ 449', 70° @ 454', 50° @ 458'.													
459.0	476.0	QUARTZ - SERICITE - CHLORITE - CALCITE PHYLLITE ~~35% quartz, 30% sericite, 25% chlorite, 10% (?) calcite.~~ Striped, dull dark green chlorite, and white quartz-calcite bands. Much fracturing. Shears at 460-464', 471.5-473'. F1 moderately developed. Core Angles: 15° @ 460', 50° @ 465-471', 70° @ 473', 55° @ 475-476'.													
476.0	508.0	QUARTZ - SERICITE - CHLORITE - CALCITE PHYLLITE Similar to above (459-476') but less calcite (5%) Shears at 476-478', 492'-493', 495', 499.5'-502', and at 503-508'. Shearing generally parallel foliation and core angles usually ~~acute on adjacent walls.~~ Much fracturing. Brecciation at 504'. Core Angles: 70° @ 478', 60° @ 484-487', 75° @ 488', 50° @ ~~491-494', 75-80° @ 496-499', 35° @ 502', 45° @~~ 506-508'.	2.3/7 8.2/10.5 4.5/6 0.6/2.5 2/2.5 2.2/3.5		476.0	483.0 493.5 499.5 502.0 504.5 508.0								

DIAMOND DRILL RECORD

LOGGED BY F. Chow

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

D.D.H. No. 75-A77 PAGE 8 of 15

CLAIM No.

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
508.0	521.0	QUARTZ - SERICITE - CHLORITE PHYLLITE													
		40% quartz-feldspar, alternating sections of dark gray sericitic phyllite with pale bleached sericitic phyllite with chlorite. Gray	12.1/13		508.0	521.0									
		phyllite extremely fractured but well healed by quartz and ankerite. 520.4-520.8' -- banded and brecciated phyllite with			(520.4	520.8)		Estimate 0.4% lead-zinc							
		10% pyrite, 0.4% lead-zinc.													
		Core Angles: 65-70° @ 508.5-510', 50° @ 511', 20° @ 513.5', 40° @ 517', 55° @ 520'.													
521.0	572.4	QUARTZ - SERICITE - GRAPHITE PHYLLITE Dark gray													
		45-50% quartz-feldspar, 5-10% graphite, 0.5% ankerite. Banded and well foliated. Highly fractured with quartz-ankerite filling,	14/15		521.0	536.0									
		well healed. Rock firm to 560' but parts readily along foliation. Moderate shearing @ 530.5-536'. Parts kinky F2. 560-569' --	20.5/21			557.0									
		fault + shear zone.													
		Core Angles: 70° @ 522', 65° @ 525', 35° @ 529', 70° @ 531',	5.3/6		557.0	563.0									
		45° @ 533', 20 to 30° @ 533-535', 50° @ 536', 70°	0.6/3			566.0									
		@ 539', 60-70° @ 540- 4', , 10° @ 567', 70° @	1.7/3			569.0									
		569-572'. 50-45° @ 545-553', 80° @ 555', 75° @ 557', 70° @ 560-3',	2.7/3.4			572.4									
572.4	599.5	QUARTZ - SERICITE - GRAPHITE PHYLLITE WITH SULPHIDES			174.5		1.4								
		Shear or stress zone containing rich to massive pyritic sulphides. Parts brecciated and re-cemented as 574-575' and 591-593.5'	4.1	1802	572.4	557.0	4.6	1.23	1.30	.59					
		plus 596-598'. Sections of phyllite with low pyrite, also low lead-zinc.	5.4	1803		584.2	7.2 2.2	.05	.04	.12					

DIAMOND DRILL RECORD

LOGGED BY F. Chow

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

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CLAIM No.

DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
		572.4-577' -- quartz-sulphides, minor sericite and graphite, abundant ankerite, dissem, banded and breccia; 25% pyrite, 3% lead-zinc and a spot of magnetite	1.4	1804	584.2	585.8	1.6	1.03	.98	.71			1.65	1.57	1.14
		-584.8' -- quartz-sericite-graphite, 5% pyrite, 0.2% lead-zinc. Sheared at 581-582'. (two rich bands of zinc at last 0.6')	8.4	1805		594.6	8.8	2.00	1.66	.97			17.60	14.61	8.54
		-585.8' -- massive pyrite with pyrite breccia, 80% pyrite negligible lead-zinc	2.5	1806		597.1	2.5 0.7	.73	.40	.59		1.13			
		-593.5' -- quartz-sericite-±graphite with banded dissem sulphide, also sulphide breccia. Av. 20% pyrite 5% lead-zinc													
		-597.1' -- massive pyrite and pyrite breccia; 70% pyrite, 8% lead-zinc, 1% magnetite at 593.5-594.6'. 85% pyrite, 1.0% lead-zinc at 594.6-597.1'		Wt. Av.	584.2	594.6	3.17 10.4	1.85	1.56	0.93	(31.9)	3.41	19.25	16.18	9.68
		-599.5' -- quartz-graphite, breccia to 598'. Minor pyrite.													
		Core Angles: 55° @ 573', 35° @ 576', 55° @ 577', 45° @ 578', 10° @ 581', 50° @ 583', 65° @ 585', 60° @ 588', 30° @ 595', 55° @ 596', 70° @ 598', 75° @ 601', 80° @ 607', 75° @ 611'.													
599.5	609.2	QUARTZ - SERICITE PHYLLITE Bleached													
		55-60% quartz-feldspar, 0.3% pyrite unevenly mineralized, spots of arsenopyrite. Bleached buff, abundant secondary quartz.	9.7/ 9.7		599.5	609.2									
		Very sericitic in places, therefore readily parts. Both contacts slightly graphitic gray phyllite.													

DIAMOND DRILL RECORD

LOGGED BY F. Chow

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

D.D.H. No. 75-A77 PAGE 10 of 15

CLAIM No.

DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
					185.7		1.8								
609.2	671.6	QUARTZ - SERICITE PHYLLITE WITH SULPHIDES Bleached buff.													
		50% quartz-feldspar, 1-50% pyrite, 0-10% lead-zinc, 0.05% magnetite - scattered. Zone generally quartzy though readily	4.4	2201	609.2	615.0	5.8	.63	.21	.41					
		parts along sericitic foliation. Moderate shearing and moderate fracturing. Mineralization dissem. in F2 bands.	6.9	2202		622.0	7.0	2.18	2.70	.80			15.26	18.90	5.60
		609.2-611.2' -- quartz-sericite-graphite, 2% pyrite, 0.05% lead-zinc.	4.2	2203		627.5	5.5	2.08	2.52	.74			11.44	13.86	4.07
		-614' -- massive and near massive fine grained pyrite and quartz. No lead-zinc.													
		-640' -- near uniform mineralization, some barren sericitic bands. Av. 25% pyrite, 8-10% lead-zinc.	3.6	2204		632.0	4.5	1.28	1.16	.44			5.76	5.22	1.98
		Minor magnetite occuring as bands or blebs and scattered.	6.9	2205		640.0	8.0	3.00	2.64	.88			24.00	21.12	7.04
		-645' -- more sericitic, minor shear with breccia, 13% pyrite, 7% lead-zinc.	4.4	2206		645.0	5.0	1.68	1.30	.56			8.40	6.50	2.80
		-650.9' -- quartz-sericite + quartz-sericitegraphite bands; 5% pyrite, 4.5% lead-zinc, moderate shearing.													
		-663.0' -- alternating rich and lower grade sulphides, latter very sericitic and aften talcy. Much	4.9	2207		650.9	5.9	1.38	1.18	.47			8.142	6.962	2.773
		fracturing and moderate brecciation recemented; 25% pyrite, 9% lead-zinc, 0.3%	4.5	2208		655.5	4.6	2.70	2.46	.91			12.42	11.316	4.186
		magnetite @ 651'-654'. Lead-zinc finely dissem. within bands.													
		-671.5' -- similar to 650.9-663' except more talcy sericitic bands with low grade lead-zinc. Av. 12%	7.0	2209		663.0	7.5	2.38	2.28	.88			17.85	17.10	6.60
		pyrite, 6% lead-zinc, 0.3% magnetite @ 669-669.8'	7.8	2210		672.0	9.0 2.7	1.73	1.36	.59		3.09			
		Core Angle: 75° to 614-626', 70° @ 627', 60° @ 628', 75° @ 630-671' with a few 5-15° changes immediately adjacent to shears.			187.4	202.1	14.7								
				Wt. Av.	615.0	663.0	48.0	2.15	2.10	0.73	(25)	4.25	103.272	100.978	35.049
				Wt. Av.	640.0 195.1	650.9	10.9 3.3	1.52	1.24	0.51	(17.5)	2.76	16.542	13.462	5.573

DIAMOND DRILL RECORD

LOGGED BY F. Chow

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

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CLAIM No.

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
671.6	746.0	QUARTZ- GRAPHITE PHYLLITE													
		45-50% quartz-feldspar, 0.5% pyrite dissem in quartzose bands or laminoe, also occur as discontinuous streaks along F2	15.5/17		672.0	689.0									
		foliation, minor amounts in F1. Phyllite thinly laminated, sometimes as wider banding.	1.6/9			698.0									
		687-687.4' and 688-688.4' -- bands of quartz-sulphide ≒ 55% pyrite, 13% lead-zinc, also pyrrhotite. Phyllite moderately	11/12			710.0									
		fissile.	0.6/2		710.0	712.0									
		689-740' -- a few small shears, many slips, crumpled or contorted	14/14			726.0									
		banding locally.	14/14			740.0									
		Core Angles: 70-75° to 727', 40° @ 730-1, 70° @ 732', 75° @ 733-746'.	4.5/6			746.0									
746.0	778.5	QUARTZ - SERICITE - GRAPHITE PHYLLITE Light to medium gray.													
		35-40% quartz-feldspar, 1-5% graphite. Thin quartzose banding with fine foliations of sericite-graphite. Moderately fissile.	325 / 325		746.0	778.5									
		Odd stringers pyrite. Many slips with considerable movement @ 773-782'.													
		Core Angles: 75° @ 747', 60° @ 749-753', 70° @ 754-764', 75° @ 765-775', 55° @ 776', 45-40° @ 778'.													
778.5	814.0	QUARTZ - SULPHIDES + MASSIVE SULPHIDES, WITH INTERMITTENT			237.3		0.9								
		SECTIONS OF SERICITIC AND/OR GRAPHITE PHYLLITE	2.8	1807	778.5	781.6	3.1	.37	.63	.18		1.00			
		778.5-779.6' -- massive pyrite (75-80%), slips parallel core, part sulphide breccia in quartz-sulphide matrix.	4.4	1808		786.4	4.8	3.15	2.28	1.21			15.12	10.944	5.808

DIAMOND DRILL RECORD

LOGGED BY F. Chow

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

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CLAIM No.

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
		Upper contact @ 40° to core, also parallel F2, No Pb Zn.	5.4	1809	786.4	791.8	5.4	.95	.72	.32			5.13	3.888	1.728
		779.6 -781.6' -- quartz-graphite phyllite with 15% pyrite as bands. ~~Speck of lead-zinc.~~	7.9	1828		800.1	8.3	3.08	2.82	1.21			25.564	23.406	10.043
		-784.7' -- quartz-sulphide with 0.3% magnetite as clots and bands, ~~minor barite with quartz as matrix.~~ Pyrite, lead-zinc as fine disseminotions showing faint banding. ~~60% pyrite, 12% lead-zinc. F2 mineralization.~~	7.5	1829		807.7	7.6 2.3	2.70	.74	1.18		3.44			
		-786.4' -- quartz-sericite-graphite-sulphides; 15% pyrite, 5% ~~lead-zinc~~	6.1	1830		814.0	6.3 1.9	0.15	0.14	0.06		0.29			
		791.8-800.1' -- massive sulphides in quartz and barite-quartz matrix. Sulphides densely dissem with faint banding, also magnetite as blebs and discontinuous streaks or bands. 70% pyrite, 8% lead-zinc occuring in lean and rich bands. 2% magnetite, barite locally mineralized.		Wt. Av.	781.6	800.1	18.5 5.6	2.48	2.07	0.95	(32.6)	4.55	45.814	38.238	17.579
		786.4-791.8' -- quartz-sericite-graphite-sulphides, banded. 5% pyrite 15% lead-zinc. Rock show many tension cracks.													
		800.1-807.7' -- bleached buff, talcy sericite phyllite with 15-25% pyrite and minor lead-zinc; Plus 50% massive sulphides in quartz ±barite matrix: Magnetite 1%, pyrite 70%, lead-zince 8%. Total average 6% lead-zinc.													
		-808.9' -- as above. Negligible lead-zinc. 800-806' parts brecciated.													
		-811.7' -- quartz-graphite phyllite; 3% pyrite, 0.06% lead-zinc													
		-814' -- quartz-sulphides; 70% pyrite, no lead-zinc, fractured and brecciated (healed)													
		~~All sulphide mineralization in F2, minor amount in F1 at 786'.~~													
		Core Angles: 55° @ 780', 40° @ 781.6', 60° @ 784', 70° @ 789-791', 50° @ 792', 40° @ 794-796', 60o @ 798-808', 75o @ 809'.													

DIAMOND DRILL RECORD

LOGGED BY F. Chow

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

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CLAIM No.

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
814.0	824.5	QUARTZ - GRAPHITE PHYLLITE WITH SULPHIDES													
		60% quartz-feldspar, thin graphitic foliations with ¼" graphitic quartzose bands. F1 well developed, sub-vent to F2. 1-3%	4/4.5		814.0	818.5									
		pyrite dissem in quartzose bands, odd spot of lead-zinc-copper. Moderately fissile. Non-competent rock.	4.5/6			824.5									
		Core Angle: 75° throughout.													
824.5	827.6	QUARTZ - SULPHIDE WITH GRAPHITE													
		Siliceous rock containing banded and kinky broken bands of pyrite with minor (2%) graphitic threads. No lead-zinc noted. 55% pyrite.	2.7/3.1		824.5	827.6		Estimate nil lead-zinc-copper							
		Core Angle: 60-70° undulating.													
827.6	847.5	QUARTZ - GRAPHITE PHYLLITE													
		As 814-824.5' but sheared, fractured and broken. Highly fissile	3.3/3.9		827.6	831.5									
			2/4.5			836.0									
			4.5/11.5			847.5									
		Core Angles: 60° @ 830', 5° @ 830-831', 30-40° @ 832-835', 40-45° @ 835-844'.													
847.5	852.0	QUARTZ - SULPHIDE WITH GRAPHITE			258.3		1.4								
		Similar to 814-824.5' but highly fractured and broken. 60 % pyrite. Possible spots of lead-zinc.		1831	847.5	852.0	4.5	0.08	0.03	0.03		0.11			

DIAMOND DRILL RECORD

LOGGED BY F. Chow

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

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CLAIM No.

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
852.0	858.0	INTERBANDED QUARTZ - GRAPHITE, QUARTZ - SULPHIDE AND QUARTZ-SERICITE PHYLLITE													
		852-852.5' -- quartz with 5% pyrite -854.5' -- quartz-graphite. Highly fissile. Spots of pyrite -857.0' -- quartz-pyrite and barren talcy sericite -858.0' -- quartz-graphite	4.6/6		852.0	858.0									
		Rocks fractured and broken.													
		Core Angle: approximately 75°.													
858.0	946.0	QUARTZ - GRAPHITE PHYLLITE													
		60% quartz-feldspar, local pyrite 1-2%, odd spot of lead-zinc. Thinly foliated graphite with grayish-white quartzose banding.	8/9 1.4/4		858.0	867.0 871.0									
		F1 moderately well developed. Highly fissile. Local tension cracks. Fault at 897-899.5', gouge and small fragments.	3.7/5 10/10		871.0	876.0 886.0									
		Fault @ 927-927.5	3/9 1.3/2			895.0 897.0									
		Core Angles: 70-75° @ 858-869', 50° @ 871-876', 75-80° @ 877-882', 70° @ 883-886', 50-20° @ 893', 70° @ 896', 75° @ 900=906', 70-75° @ 907-938', 70° @ 939-946'.	2/4 15/19 6.5/11 10.5/15			901.0 920.0 931.0 946.0									
946.0	967.0	FAULT OR THRUST ZONE IN QUARTZ - SERICITE ± GRAPHITE													
		946-952' -- bleached buff sericite phyllite intensely sheared -953.6' -- black graphitic gouge	5.4/7.5		946.0	953.5									
		-965.5'-- sericite nearly totally replaced by calcite and ankerite. Sheared and brecciated and recemented,	13.5/13.5			967.0									

DIAMOND DRILL RECORD

LOGGED BY F. Chow

PROPERTY

D.D.H. No. 75-A77 PAGE 15 of 15

LATITUDE BEARING OF HOLE STARTED

CLAIM No.

DEPARTURE DIP OF HOLE COMPLETED

DIRECTION AND DISTANCE FROM NE. CLAIM POST

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
		Buff white colour.													
		-967' -- mylonite ?													
		Core Angles: 75° @ 950', 50° @ 954-958', 30-40-60° @ 959-962', 60° @ 966'.													
967.0	1001.5	QUARTZ - BIOTITE - SERICITE - GARNET SCHIST													
		60% quartz-feldspar, 20% biotite, 15% sericite, minor garnet. Biotite maybe phlogopite - dark brown and also bronze colour.	8.5/10		967	977									
		Garnet is pink and amber colour. Rock massive and fresh looking.	24.5/ 24.5			1001.5									
		Core Angle: 75°.													
	1001.5	END OF HOLE													
		REMARKS: 1. Hole cemented from bottom upwards to collar, approximately 10 bags of cement used.													

DIAMOND DRILL RECORD

LOGGED BY S. B. Reamsbottom — METRIC calculations in last 2 Pages

PROPERTY VANGORDA, GRUM JOINT VENTURE

D.D.H. No. 75-A78 PAGE 1 of 8

LINE GRID / HIWI

LATITUDE 12 + 08 N (11,046.27'N) BY TROPARI

DEPARTURE 77 + 91 W (7689.80'E) BEARING OF HOLE

	Bea	Dip
202' --	106° 20'	~~True~~ 89°
402' --	122° 10'	88°30'
602' --	118° 02'	85.7°
802' --	114° 08'	70°
982' --	27° 20'	

DIP OF HOLE BY TROPARI

ELEVATION 4261' (1311.67m) DIP TESTS

202' --	-89°
402' --	-80.5°
602' --	-73°
802' --	-70°
982' --	-69.5°

STARTED May 23, 1975 D.S.

COMPLETED May 27, 1975 A.S.

DEPTH Proposed: Ultimate: 1020' (310.90m)

0-140-Tricone
0-140-BW
180-1020 BQ

CLAIM No.

N

DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Sample Footage From	Sample Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
0	42.67 140	OVERBURDEN													
140	51.66 169.5	BLACK THINLY LAMINATED GRAPHITIC PHYLLITE (G) Local F2 folds, F2 dominant. Rock broken and poker chips. Few quartz veins. Core Angle: 140' = 66°, 150' = 70°, 160' = 75°. 42.6 45.7 48.7		Good Recovery											
169.5	58.00 190.3	BANDS OF SULPHIDE IN BLEACHED QUARTZ - SERICITE AND (Sb G) GRAPHITIC PHYLLITES Note green mariposite (1%) in bleached phyllites. Sulphide bands: massive - 50-80% sulphide, pyrite, sphalerite, lesser galena, chalcopyrite in tension gashes.	5.0	1703	169.5	174.5	5.0	5.40	9.22	2.65	14.62		27.00	46.1	13.25
		No. 1703 -- M.S. and mineralized phyllite: 50-70% sulphide, 10%+ lead-zinc	14.7		174.5	179.2	—								
		No. 1704 -- banded sulphide in quartz-sericite gangue - 40-50% sulphide, 10% lead-zinc	2.3	1704	179.2	181.5	2.3	6.38	13.30	2.65	19.68		14.674	30.59	6.025
		No. 1705 -- M.S. 70% sulphide, 6-8% lead-zinc Core Angle: 170' = 65°, 180' = 60°, 190' = 75°. 51.8 54.8 57.9	15.0		181.5	186.5	—								
			3.0	1705	186.5	190.3	3.8	3.90	8.04	1.74	11.94		14.820	30.552	6.612
190.3	64.11 211	GRAY QUARTZ - SERICITE PHYLLITE (S) Quite phyllitic. Rock broken.		Wt. Av.	169.5 51.66	190.3 58.0	20.8 6.34	2.72	5.16	1.25	(42.8)		56.494	107.242	25.957
			5/5		191	196									
			2.5/3.5		196	199.5									
			2.5/4.5		199.5	204									

DIAMOND DRILL RECORD

LOGGED BY S. B. Reamsbottom

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

D.D.H. No. 75-A78 PAGE 2 of 8

CLAIM No.

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
			0.7/1.5		206.5	208									
			1.3/3		208	211									
64.31 211	69.80 229	BLEACHED QUARTZ - SERICITE PHYLLITE Sb													
		Note minor green mariposite. Buff carbonate.	3/5		221	226									
		Core Angle: 220' = 60°. 67.8													
229	74.58 244.7	GRAY QUARTZ - SERICITE PHYLLITE S													
		Slightly bleached. Well defined F1 laminae folded by F2.													
		Core Angle: 230' = 69°, 240' = 69°. 70.1 73.1													
244.7	76.08 249.6	SULPHIDE SECTIONS IN BLEACHED PHYLLITE Sb													
		Thin massive pyritic sulphide zones (0.5-8') in bleached quartz-sericite phyllite.	4.9	1706	244.7 74.58	249.6 76.08	4.9 1.5	5.03	4.80	1.91 (65.48)					
		Sulphides - high grade 15-20%: pyrite, sphalerite, galena, minor pyrrhotite. Section average 4% possibly.													
		Core Angle: 248' = 62°. 75.6													
249.6	78.64 258	BLEACHED QUARTZ - SERICITE PHYLLITE Sb													
		Core Angle: 255' = 71°. 77.7	8.4		249.6	258.0	—								

DIAMOND DRILL RECORD

LOGGED BY S. B. Reamsbottom

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

D.D.H. No. 75-A78 PAGE 3 of 8

CLAIM No.

DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Sample Footage From	Sample Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
78.64 258	82.05 302	BLACK MINERALIZED QUARTZ - GRAPHITE PHYLLITE G													
		Band of massive pyrit -sulphide 258-265'. Mineralized graphite phyllite to 282'.	6.8	1707	258	265	7.0	8.72	14.83	3.68			61.04	103.81	25.76
		Good F1 folds defined by alternating quartz-micaceous graphitic laminae.	6	1708	265	271	6.0	2.45	4.14	1.09			14.70	24.84	6.54
		No. 1707 -- M.S. F1 bands in F2 fold nose, C.A. parallel to core axis. 60-70% sulphide: pyrite, sphalerite, galena.	4.5	1709	271	275.5	4.5	3.90	6.84	1.59			17.55	30.78	7.155
		Grade 15-20% + lead-zinc	4.5	1710	275.5	280	4.5	1.68	4.20	.82			7.56	18.9	3.69
,		No. 1798 -- Mineralized striped quartz-graphite phyllite: 10% sulphide, 6-8% lead-zinc	2	1711	280	282	2.0	1.83	3.00	.79			3.66	6.00	1.58
		No. 1710 -- as above			(83.97)		(5.3)								
		No. 1711 -- weak mineralized graphitic phyllite, 0.5% lead-zinc		WT. AV.	258.0	275.5	17.5	5.33	9.11	2.25	(77.3 g/m.t.)		93.29	159.43	39.435
		Thin white quartz-sericite zones 288' on. Very weak mineralized		WT. AV.	258.0	271.0	13.0 (3.9)	5.83	9.9	2.48	(85.2)		75.74	128.65	32.30
		blebs of pyrite in F2 laminae.		WT. AV.	275.5	282.0	6.5	1.73	3.83	.81	(27.8)		11.22	24.9	5.27
		Core Angle: 260' subvertical F1, F2 fold nose, 270' = 72°, 280' = 67°, 290' = 70°, 300' = 65°. 82.3 85.3 88.4 91.44	1.2 / 1.3		282.0	288.2 / 296.5	— / —	0.6	% Pb Zn,	Est.	(0.5% Pb)				
302	108.05 354.5	GRAY QUARTZ - SERICITE PHYLLITE S													
		Locally greenish where more chlorite. F2 closely spaced dominannt. F1 mainly subvertical to F2. Rocks broken 321-343'.	3/4		332	336									
		Core Angle: 310' = 76°, 320' = 64°, 330-360' = 60°, 340' = 54°, 350' = 67°. 94.5 97.5 100.6 103.6 106.7	2/3		336	339									
			2/4		339	343									
354.5	115.52 379	GREEN-GRAY QUARTZ - SERICITE - CHLORITE PHYLLITE SC													
		Soft, talcy texture in carbonate rich zones. Quartz laminae. F2 good. Mini fault breccia zones.	4/7.5		365	372.5									
		Core Angle: 360' = 83°, 370' = 68°. 109.7 112.8	1/2.5		372.5	375									

DIAMOND DRILL RECORD

LOGGED BY S. B. Reamsbottom

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

D.D.H. No. 75-A78 PAGE 4 of 8

CLAIM No.

N

DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
115.52 379	120.09 394	GRAY QUARTZ - SERICITE PHYLLITE Minor chlorite. S													
		Core Angle: 380' = 60°, 390' = 45°, good F2, F1 subvertical.													
		115.8 118.8													
394	128.02 420	GREEN-GRAY QUARTZ - SERICITE - CHLORITE PHYLLITE Sc													
		Soft in carbonate zones. Minor pyrite.													
		Core Angle: 400' = 73°, 410' = 66°, 420' = 72°.													
		121.9 124.9 128.0													
420	129.84 426	GRAY QUARTZ - SERICITE PHYLLITE S													
		Good F2, F3 kink folds.													
		Core Angle: 425' = 72°.													
		129.5													
426	158.19 519	GREEN-GRAY QUARTZ - SERICITE - CHLORITE PHYLLITE Sc													
		Note white (tiny) laminae. Rock quite carbonate rich as are most of these late zoned carbonate veins.													
		Core Angle: 430' = 80°, 440' = 65°, 450' = 75°, 460' = 64°, 470' = 80°, 480' = 57°, 490' = 46°, 500 = 70°, 510' = 70°.													
		Thin zone gray quartz-sericite phyllite at 464-469'. Broken gouged muddy at 484-492'.	5/7		485	492									
		① 131.1 ② 134.1 ③ 137.1 ④ 140.2 ⑤ 143.2, 146.3, 149.3, 152.4, 155.4													
519	163.68 537	GRAY QUARTZ - SERICITE PHYLLITE S													
		Core Angle: 520' = 75°, 530' = 67°.													
		158.5 161.5													

DIAMOND DRILL RECORD

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LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

D.D.H. No. 75-A78 PAGE 5 of 8

CLAIM No.

DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
163.68 537	196.60 645	GREEN-GRAY QUARTZ - SERICITE - CHLORITE PHYLLITE Sc													
		As above. Carbonate in F2 laminae.		Recovery Good.											
		Core Angle: 540' = 61°, 550' = 74°, 560' = 70°, 570' = 60°,													
176.8		580' = 70°. 164.6 167.6 170.7 173.7													
		Pinkish quartz- carbonate veins 559-588'.													
		Rock limey from 588' on. Very sericitic-carbonate-chlorite rich		Recovery Good.											
		with mottled carbonate crystals.													
		Core Angle: 590' = 72°, 600' = 72°, 610' = 70°, 620' = 75°, 630'													
		= 80°, 640' = 75°, 645' = 71°. 185.9 188.9 192.0													
		195.0 196.6													
		179.8 182.88													
645	208.23 663.5	GRADES TO GRAY QUARTZ - SERICITE PHYLLITE S													
		As amount of chlorite decreases, thin quartz veins (1-3")		Recovery Good.											
		Core Angle: 650' = 68°, 660' = 83°.													
		198.1 201.2													
663.5	208.79 685	BLACK STRIPED QUARTZ - GRAPHITIC PHYLLITE G													
		Thin quartz laminae with blebs of pyrite. Network of buff		Recovery Good.											
		carbonate veins locally.													
		Core Angle: 670' = 60°, 680' = 75°.													
		204.2 207.3													
685	215.95 708.5	GRAY QUARTZ - SERICITE PHYLLITE S													
		Thinly laminated. F2 dominant. F1 subvertical. Local F3 kinks.		Recovery Good.											
		Core Angle: 690' = 69°, 700' = 64°.													
		210.3 213.4													

DIAMOND DRILL RECORD

LOGGED BY S. B. Reamsbottom

PROPERTY

LATITUDE | BEARING OF HOLE | STARTED

DEPARTURE | DIP OF HOLE | COMPLETED

ELEVATION | DIP TESTS | DEPTH Proposed: Ultimate:

D.D.H. No. 75-A78 PAGE 6 of 8

CLAIM No.

N

DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
215.95	231.65														
708.5	760	BLACK STRIPED QUARTZ - GRAPHITIC PHYLLITE G													
		Striped, good F2. Note white carbonate with quartz laminae -- quite limey. (Probably all rocks contain a few % carbonate)		Recovery Good.											
		Late carbonate in tension gashes. Thin, talcy quartz-sericite-carbonate phyllite at 738-741'.													
		Core Angle: 710' = 56°, 720' = 75°, 730' = 61°, good F2 folds, 740' = 80°, 750' = 69°, 760' = 69°.													
		216.4, 219.4, 222.5, 225.5, 228.6, 231.6													
	262.71														
760	861.9	GRAY QUARTZ - SERICITE PHYLLITE S													
		Thinly laminated, F2 dominant. Local thin (0.5') zone of gray-green sericite-chlorite phyllite. Rock broken, gougy 760-762', 767-768', 783-784'. Moderately graphitic at 781-789', 803-810' blebs of pyrite.													
		Core Angle: 770' = 81°, 780' = 70°, 790' = 76°, 800' = 79°, 810' = 73°, 820' = 75°, 830' = 72°.		Recovery Good.											
		Note thin (0.5') zone of sheared talcy sericite phyllite before M.S. section.													
		Core Angle: 840' = 71°, 850' = 71°.													
		234.7, 237.7, 240.8, 243.8, 246.8, 249.9, 252.9, 256.0, 259.1													
861.9	267.61 878	SULPHIDE ZONE S P													
		Bands of massive pyritic sulphide in mineralized white quartz-sericite phyllite. M.S. well banded: 70-80% sulphide, 10-15%	3.9	1712	861.9	865.8	3.9	5.10	5.40	1.88			19.89	21.06	7.332
		lead-zinc. Barite rich. Mineralized phyllite 10-15% sulphide, 6-8% lead-zinc:	1.6		865.8	866.4		Barren					0	0	0
		No. 1712 -- banded massive sulphide: pyrite, sphalerite, galena, barite, 70% sulphide, 10-15% lead-zinc.	2.6	1713	866.4	869	2.6	1.83	3.18	.74			4.758	8.268	1.924
		No. 1713 -- mineralized quartz-sericite phyllite, 15-20% sulphide, 6-8% lead-zinc	1.0		869	870		Barren					0	0	0

DIAMOND DRILL RECORD

LOGGED BY S. B. Reamsbottom

PROPERTY

LATITUDE | BEARING OF HOLE | STARTED

DEPARTURE | DIP OF HOLE | COMPLETED

ELEVATION | DIP TESTS | DEPTH Proposed: Ultimate:

D.D.H. No. 75 - A78 PAGE 7 of 8

CLAIM No.

N

DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
		No. 1714 -- Mineralized quartz-sericite phyllite	5	1714	870	875	5.0	1.23	3.00	.59			6.15	15.00	2.95
		No. 1715 -- M.S. breccia for 1 foot: pyrite, sphalerite, galena, barite, 6-8% lead-zinc ... possibly 10%.	3	1715	875	878	3	3.75	6.36	2.21			11.25	19.08	6.63
		Core Angle: 860' = 67°, 870' = 66°, 880' = 76°. 262.1 265.2 268.2		Wt. Av.	861.9	878.0	16.1	2.61	3.94	1.17	(40.1)		42.048	63.408	18.836
267.61 878	278.59 914	GRAY QUARTZ - SERICITE PHYLLITE S													
		Well defined F2, local F1 laminae subvertical to F2. Some F3 kinks. Quartz-chlorite veins. Minor carbonate in foliation.		Recovery Good.											
		Rock broken, gougy at 905-914'. 271.3 Core Angle: 880' = 85°, F1 subvertical folded, 890' = 70°,													
		F1 subvertical, 900' = 89°, F1 45° same dip; 910' = 62°, F1 subvertical. 274.3 277.4													
914	284.13 932.2	BLEACHED WHITE QUARTZ - SERICITE PHYLLITE S													
		Rich sericite; white powdery carbonate in fractures. Rock broken 921-924'. Buff carbonate in foliation.		Recovery Good.											
		Core Angle: 920' = 78°, 930' = 76°. 280.4 283.5													
932.2	293.52 963	SULPHIDE ZONE P													
		Bands of massive sulphide and mineralized striped, ribbon, quartz rich graphitic phyllite. 70% sulphide in M.S. 15-20% + lead-zinc. Mineralized phyllite 20-30% sulphide, 8-12% lead-zinc.													
		Note many tension gashes healed by quartz-sphalerite, galena.													

DIAMOND DRILL RECORD

LOGGED BY S. B. Reamsbottom

PROPERTY

LATITUDE | BEARING OF HOLE | STARTED

DEPARTURE | DIP OF HOLE | COMPLETED

ELEVATION | DIP TESTS | DEPTH Proposed: Ultimate:

D.D.H. No. 75-A78 PAGE 8 of 8

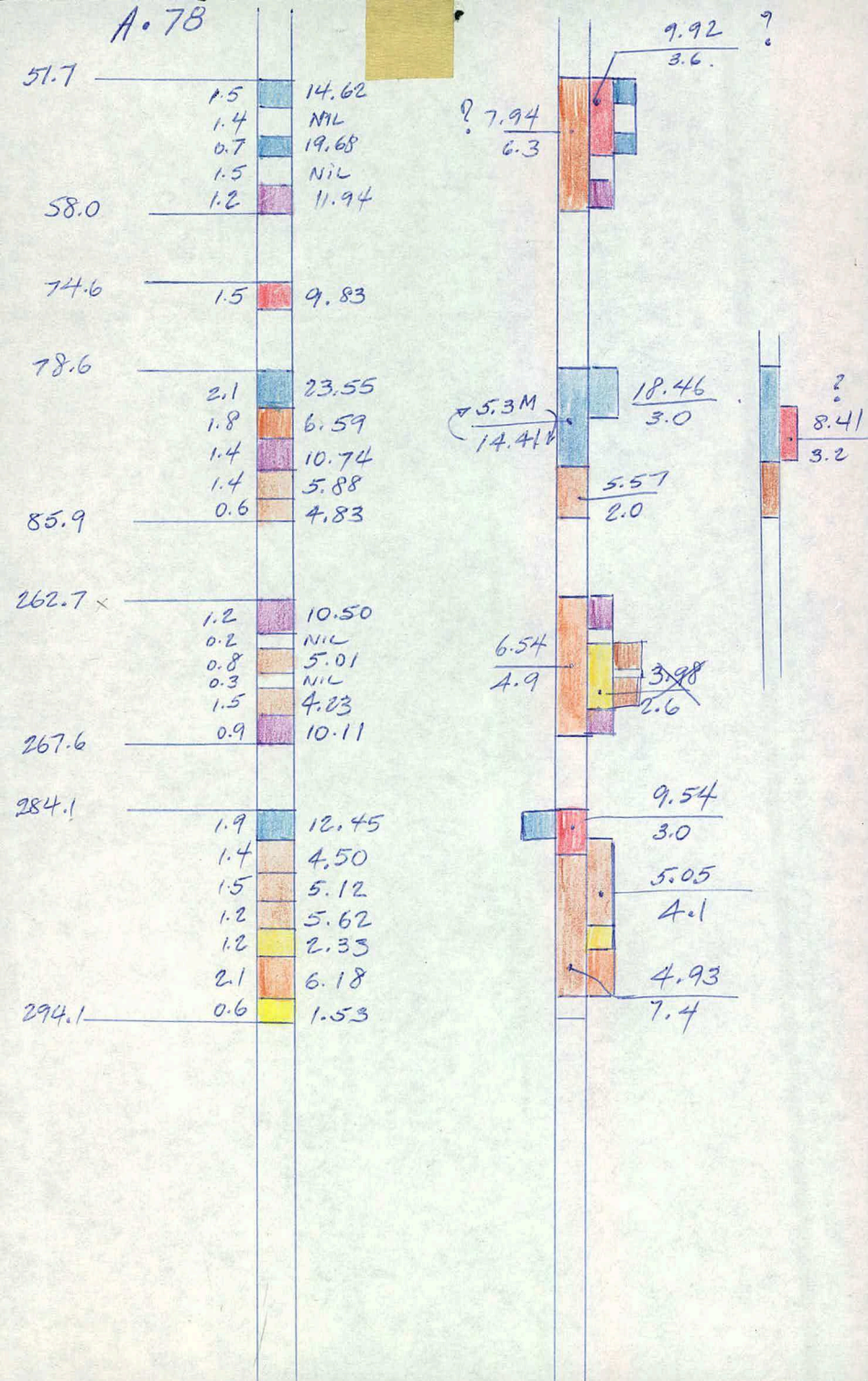
CLAIM No.

N

DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
		No. 1716 -- M.S. 60-70% sulphide: zinc rich: 10-15% lead-zinc	6.3	1716	932.2 (938.5 ~ 942.2)	938.5	6.3 (3.7)	5.25	7.20	2.62			33.075 5.55	45.360 11.10	16.506 2.183
		No. 1717 -- Mineralized striped graphite phyllite: 15-20% sulphide: 8-10% lead-zinc.	4.3	1717	938.5	943	4.5	1.50	3.00	.59			6.75	13.5	2.66
		No. 1718 -- Mineralized striped graphite: 15-20% sulphide, 8-10% lead-zinc	5	1718	943	948	5.0	1.88	3.24	.71			9.4	16.2	3.55
		No. 1719 -- as above	4	1719	948	952	4.0	1.90	3.72	.76			7.6	14.88	3.04
		No. 1720 -- mineralized phyllite. Fault @ 954': 15% sulphide, 6-8% lead-zinc	4	1720	952	956	4.0	1.15	1.18	.59			4.60	4.72	2.36
		No. 1721 -- mineralized phyllite, 20% sulphide, 8-10% lead-zinc	7	1721	956	963	7.0	1.80	4.38	.91			12.60	30.66	6.37
		No. 1722 -- weak mineralized phyllite, 0.5% lead-zinc	2	1722	963	965	2.0	.59	.94	.24					
		Core Angle: 940' = 65°, 950' = 70°, 960' = 67°. 286.5 289.6 292.6					4.5								
				Wt. Av.	938.5	963.0	24.5	1.67	3.26	0.73	(25.2)		40.925	79.96	17.975
				Wt. Av.	932.2	942.2	10.0 (10.5)	3.86	5.65	1.87	(64.1)		38.625	56.46	18.689
		Sc B													
293.52 963	310.90 1020	GRAY-GREEN QUARTZ - SERICITE - CHLORITE - BIOTITE PHYLLITE													
		Bleached for 4 feet beyond sulphides. Brown biotite occurs sporadically within section. Blebs of pyrite-pyrrhotite throughout. Veins of buff white cc.													
		Core Angle: 970' = 78°, 980' = 74° 990' = 76°, F2 folds, 1000' = 82°, 1010' = 86°, 1020' = 78°. 295.6, 298.7, 301.7, 304.8, 307.8, 310.9													
	1020	END OF HOLE													
		REMARKS: 1. Cemented hole from 1020' upwards, using 8 bags of cement.													

A. 78


51.7
1.5
14.62
1.4
NIL
0.7
19.68
1.5
NIL
58.0
1.2
11.94
74.6
1.5
9.83
78.6
2.1
23.55
1.8
6.59
1.4
10.74
1.4
5.88
85.9
0.6
4.83
262.7 ×
1.2
10.50
0.2
NIL
0.8
5.01
0.3
NIL
1.5
4.23
267.6
0.9
10.11
284.1
1.9
12.45
1.4
4.50
1.5
5.12
1.2
5.62
1.2
2.33
2.1
6.18
294.1
0.6
1.53
9.92
3.6.
?
?
7.94
6.3
5.3M
14.41
18.46
3.0
?
8.41
3.2
5.57
2.0
6.54
4.9
3.98
2.6
9.54
3.0
5.05
4.1
4.93
7.4

CALCULATIONS IN METERS (1)

LOGGED BY _____ D.D.H. Nº A-78 PAGE _____

Interval From	Interval To	DESCRIPTION	Recovery	Sample Nº	Interval From	Interval To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Pb	Assay x Zn	Assay x Ag
					51.7	53.2	1.5	5.40	9.22	14.62			8.1	13.83	21.93
					53.2	54.6	1.4								
					54.6	55.3	0.7	6.38	13.3	19.68			4.47	9.31	13.78
					55.3	56.8	1.5								
					56.8	58.0	1.2	3.90	8.04	11.94			4.68	9.65	14.33
					74.6	76.1	1.5	5.03	4.80	65.48	✓				
					78.6	80.8	2.1	8.72	14.83	126.17			18.31	31.14	264.96
						82.6	1.8	2.45	4.14	37.37		x 0.9	2.21 4.41	3.73 7.45	33.63 67.27
						83.9	1.4	3.90	6.84	54.51			5.46	9.58	76.31
						85.3	1.4	1.68	4.20	28.11			2.35	5.88	39.35
						85.9	0.6	1.83	3.00	27.09			1.10	1.80	16.25
					262.7	263.9	1.2	5.10	5.40	64.46			6.12	6.48	77.35
						264.1	0.2								
						264.9	0.8	1.83	3.18	25.37			1.46	2.54	20.30
						265.2	0.3								
						266.7	1.5	1.23	3.00	20.23			1.85	4.50	30.35

LOGGED BY _____ D.D.H. No A-78 PAGE _____

Interval From	Interval To	DESCRIPTION	Recovery	Sample No	Interval From	Interval To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Pb	Assay x Zn	Assay x Ag
					266.7	267.6	0.9	3.75	6.36	75.77			3.38	5.72	68.19
				×	284.1	286.1	1.9	5.25	7.20	89.83			9.98	13.68	170.68
						287.4	1.4	1.50	3.00	20.23		× 1.1	1.65	3.30	22.25
					×								2.10	4.20	28.32
						288.9	1.5	1.88	3.24	24.34			2.82	4.86	36.51
						290.2	1.2	1.90	3.72	26.06			2.28	4.46	31.27
						291.4	1.2	1.15	1.18	20.23			1.38	1.42	24.28
					×	293.5	2.1	1.80	4.38	31.20			3.78	9.20	65.52
						294.1	0.6	0.59	0.94	8.23	✓				
				Wt. Av.	57.7	58.0	6.3	2.74	5.20	7.94			17.25	32.79	50.04
				〃	57.7	55.3	3.6	3.49	6.43	9.92			12.57	23.14	35.71
				〃	78.6	83.9	5.3	5.32	9.09	77.08			28.18	48.17	408.54
				〃	78.6	81.6	3.0	6.84	11.62	99.53			20.52	34.87	298.59
				〃	83.9	85.9	2.0	1.73	3.84	27.8			3.45	7.68	55.60
				〃	262.7	267.6	4.9	2.61	3.93	40.04			12.81	19.24	196.19
				〃	287.4	293.5	7.4	1.67	3.26	25.12			12.36	24.14	185.90
				〃	284.1	287.1	3.0	3.88	5.66	64.31			11.63	16.98	192.93

DIAMOND DRILL RECORD

LOGGED BY S. B. Reamsbottom

PROPERTY VANGORDA, GRUM JOINT VENTURE

	Line Grid	HIW Coords
LATITUDE	9 + 96 W	11,045·78" N
DEPARTURE	80 + 04 W	7597.11" E
ELEVATION	4262.98	1312·16 M

BY TROPARI

BEARING OF HOLE
200' -- 165° 56'
400' -- 139° 40'
600' -- 136° 56'
800' -- 145° 50'
1040' -- 319° 50'
1240' -- 105° 44'

DIP OF HOLE

DIP TESTS
200' -- 98°
400' -- 87°
600' -- 85°
800' -- 86°
1040' -- 82° 1240 -- 81°

STARTED May 27, 1975

COMPLETED June 3, 1975

DEPTH Proposed: Ultimate: 1375' (419.10 metres)
0 - 30 Tricone
0 - 40 BW 40 - 1375 BQ

D.D.H. No. 75-A79 PAGE 1 of 10

CLAIM No.

DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
	11.0		2/6		40	46									
0	36.2	OVERBURDEN													
	45.7														
36.2	150	PALE GREEN-GRAY QUARTZ - SERICITE - CHLORITE PHYLLITE Sc													
		With white carbonate in quartz laminae. Good F2 foliation. F2 folds locally. Rock locally broken but recovered.	2/5		103	108									
			2/4		113	117									
		Core Angle: 40' = 70°, 50' = 67°, 60' = 64°, 70' = 75°, 80' = 69°, 90' = 71°, 100' = 70°, 110' = 58°, 120' = 67°, 130' = 76°, F2 folds. Broken ground 99-108'. 140' = 70°, 150' = 82°.													
		Sc K													
	61.7														
150	202.4	PALE GREEN SERICITE - CHLORITE - QUARTZ - CARBONATE PHYLLITE													
		Essentially same as above but very sericite-chlorite-carbonate rich. Rock has talcy, soft texture. Minor pyrrhotite, sphalerite, galena band at 191'. Thin (0.5-2") veins of cc. Mariposite in last two feet before graphite phyllite.													
		Core Angle: 160' = 78°, 170' = 78°, 180' = 78°, 190' = 76°; transposed F2 folds; 200' = 80°.													
	65.7														
202.4	215.6	MINERALIZED BLACK STRIPED QUARTZ - GRAPHITE PHYLLITE G													
		Mainly fine-grained sphalerite in foliation. Minor galena, pyrite: 3-5% sulphide, 2% lead-zinc or less.		1909	202.5	207	4.5	1.70	4.44	0.82			7.65	19.98	3.69
		Core Angle: 210' = 62°.	7.5	1910 W.HW	207 202·5	214.5 214·5	7.5 12·0	2.30 2.08	4.14 4.25	0.94 0.90	(30·9)		17.25 24.90	31.05 51.03	7.05 10.74

DIAMOND DRILL RECORD

LOGGED BY S. B. Reamsbottom

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

D.D.H. No. 75-A79 PAGE 2 of 10

CLAIM No.

N — DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Sample Footage From	Sample Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
65.7 215.6	74.1 243.3	GREEN-GRAY SERICITE - CHLORITE PHYLLITE Sc													
		Good F2. Minor chalcopyrite, sphalerite, galena in blebs and stringers. Quartz veins with chlorite, minor pyrite, pyrrhotite and galena. Mud gouge @ 240-243.3'.	5/8		222	230									
		Core Angle: 220' = 70°, 230' = 70°, 240' = 76°.													
243.3	85.4 280.4	WHITE BLEACHED QUARTZITIC SERICITE - CHLORITE PHYLLITE Sb c P													
		Mineralized. Mariposite before sulphide zone. Quartz has greenish tinge. Phyllite locally limey. Thin breccia zones rehealed by quartz-carbonate. Mineralization: Mainly fine-grained red sphalerite, pyrite, minor galena. Locally 8-10% sulphide, 3-6% lead-zinc. Note sulphide is concentrated in F1 laminae -- subvertical @ 249-250' F2 fold nose.													
		Gray quartz-graphitic mineralized phyllite last 270-273'. Note small-scale subvertical post mineralization fractures. Thin, weak mariposite shear zones within section.	4.9 /3.9	1911	245 249.9	249.9 253.8	4.9 —	2.78	3.78	1.12					
		No. 1911 -- white green quartz-sericite phyllite, 4-6% sulphide, 3-5% lead-zinc	4.2	1912	253.8	258	4.2	0.48	1.08	0.12					
		No. 1912 -- weak mineralized phyllite quartz-sericite; 3% sulphide, 0.5% lead-zinc.	4.5 /3.0	1913	258 262.5	262.5 265.5	4.5 —	1.83	4.08	0.82					
		No. 1913 -- gray quartz-sericite-graphite phyllite, 3-5% sulphide 1-3% lead-zinc	4.2	1914	265.5	269.7	4.2	1.68	4.08	0.65			7.056	17.136	2.73
		No. 1914 -- white quartz-sericite phyllite; 7-10% sulphide, 6% lead-zinc.	5.9 /2.6	1915	269.7 275.6	275.6 278.2	5.9 —	1.78	3.66	0.79			10.502	21.594	4.661
		No. 1915 -- gray quartz-graphite phyllite: 5-6% sulphide, 4-6% lead-zinc	4.9	1916	278.2	283.1	4.9	1.83	3.72	0.88					
		No. 1916 -- gray striped quartz-sericite phyllite, 5-7% sulphide, 4-6% lead-zinc		Wt. Av	265.5	275.6	10.1	1.74	3.83	0.73 (25.1)			17.558	38.73	7.391

DIAMOND DRILL RECORD

LOGGED BY S. B. Reamsbottom

PROPERTY

LATITUDE | BEARING OF HOLE | STARTED

DEPARTURE | DIP OF HOLE | COMPLETED

ELEVATION | DIP TESTS | DEPTH Proposed: Ultimate:

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CLAIM No.

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
		Core Angle: 250' = 63°, 260' = 76°, 270' = 68°- incipient boudinage; 280' = 62°.													
		PG													
85.4 280.4	116.9 383.5	GRAY, MINERALIZED, STRIPED, RIBBON, QUARTZ - GRAPHITE PHYLLITE	13.1		283.1	286.2									
		Thinner sections of mineralized quartz rich sericite phyllite. Note, 286.2-286.8' sphalerite rich band, 8-10% lead-zinc.	10.6		286.2	286.8		10-15% lead-zinc average							
		Rock broken, gouged locally. Also older rehealed fault breccia, ex. 334'.													
		Core Angle: 290' = 75°.													
		No. 1917 -- white quartz rich sericite phyllite: 8-10% sulphide, 6-8% lead-zinc	13.0		290	293		Average 1% lead-zinc							
		No. 1918 -- quartz rich graphite phyllite: 7% sulphide, 5% lead-zinc	5	1917	293	298	5	3.30	5.46	1.32			16.50	27.30	6.60
		No. 1919 -- weakly mineralized gouged graphite phyllite: 3-4% sulphide, 1-2% lead-zinc	5.5	1918	298 (303.5 ~	303.5 308.5)	5.5 (5.0)	2.93	5.40	1.09			16.115 20.65	29.70 14.10	5.995 6.45
		No. 1920 -- mineralized quartz-graphite phyllite: 3-4% sulphide, 1-2% lead-zinc	4.5	1919	303.5	315	11.5	4.13	2.82	1.29					
		No. 1921 -- mineralized quartz-graphite phyllite. 3-5% sulphide. 3% lead-zinc.	4.5	1920	315	319.5	4.5	1.58	1.94	0.74			7.11	8.73	3.33
		No. 1922 -- mineralized quartz-graphite phyllite. Healed fault breccia. 3-4% sulphide, 1-3% lead-zinc.	6.5	1921	319.5	326	6.5	1.35	2.46	0.68			8.775	15.99	4.42
		No. 1923 -- as above	5	1922	326	331	5.0	2.50	4.26	1.03	6.76				
		Sulphides in above mainly fine-grained red sphalerite, pyrite, lesser galena. Minor magnetite. Note sulphide fragments in brecciated zones.	5	1923	331	336	5.0	1.48	3.00	0.62	9.48		5.79 %		
			6	1924	336	343	7.0	1.90	4.14	0.85	6.04				
				Wt. Av.	293.0	308.5	15.5	3.44	4.59	1.23	(42.1)		53.265	71.10	19.045
		Core Angle: 300' = 75°, 310' = 79°, 320' = 59°, 330' = 76°, 340' = 61°.		Wt. Av.	293.0	303.5	10.5	3.11	5.43	1.2	(41.1)		32.615	57.00	12.585
				Wt. Av	315.0	326.0	11.0	1.44	2.25	0.70	(24.2)		15.885	24.72	7.75
			175		343.0	350.5	—								

DIAMOND DRILL RECORD

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PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

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CLAIM No.

DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
			8.5	1925	350.5	360	9.5	0.93	1.84	0.44					
		No. 1924 -- mineralized quartz-graphite phyllite; 3-5% sulphide, 3-4% lead-zinc. Weak mineralized phyllite.			360	365		Weak mineralized phyllite; 0.5% lead-zinc, F.S.							
		No. 1925 -- mineralized quartz-graphite phyllite; 3-4% sulphide, - % lead-zinc.			365	374.5		Phyllite							
		No. 1926 -- mineralized quartz-graphite phyllite: F2 folds, 5-6% sulphide, 4-5% lead-zinc	5	1926	374.5	379.5	5.0	1.19	3.60	0.59					
		No. 1927 -- mineralized quartz-graphite, quartz-sericite phyllite: 5-6% sulphide, 4-6% lead-zinc	4 14.1	1927	379.5	383.5	4.0	4.50	5.28	1.76					
					383.5	387.6	—	white bleached sericite phyllite							
		Core Angle: 350' = 71°, 360' = 52°, F2 fold noses; 370' = 66°; 380' = 83°, F2 folds.	4.4	1928	387.6	392	4.4	2.78	6.48	1.44			12.232	28.512	6.336
			7.2	1929	392	399.2	7.2	6.17	10.92	2.94			44.424	78.624	21.168
116.9 383.5	121.6 399.2	SULPHIDE ZONE IN WHITE QUARTZ - SERICITE PHYLLITE P-S													
		Mineralized phyllite and bands of massive sulphide.		Wt. Av.	387.6	399.2	11.6	4.88	9.24	2.37 (81.3)			56.656	107.136	27.504
		No. 1928 -- mineralized white quartzitic sericite phyllite: zinc rich in F1, F2 laminae: 10% sulphide, 6-8% lead-zinc.													
		No. 1929 -- banded and massive sulphide in quartz-sericite gangue: 70% sulphide, 15-20% lead-zinc red-orange sphalerite, galena, pyrite, minor chalcopyrite. Thin (0.5') quartz-sericite-chlorite-mariposite parting @ 397'.													
		Core Angle: 390' = 75°, 395' = 85°, 400' = 78°.													

DIAMOND DRILL RECORD

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PROPERTY

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LATITUDE BEARING OF HOLE STARTED CLAIM No.

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Sample Footage From	Sample Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
121.6	134.6														
399.2	441.5	DARK GRAY SERICITE - QUARTZ PHYLLITE S													
		Locally dark bottle green, probably due to minor chloritic content. Note, thin bands of massive sulphide at 405.5'. F2	1/3		405.5	406.8		Estimate 6-7% lead-zinc							
		dominant. Many small-scale transposed F2 fold noses. Blebs of pyrite, chalcopyrite throughout, Mud fault gouge @ 407-411'.	1/2		436	438									
		Recovery good.													
		Core Angle: 410' = 60°, 420' = 80°, 430' = 70°.													
441.5	152.1 499	GRADES TO BLACK STRIPED QUARTZ - GRAPHITIC PHYLLITE G													
		Good F2. F2 folds common. Blebs of pyrite, some with quartz pressure shadows. Note fine-grained sphalerite, galena (2")		Good Recovery.											
		at 468'. Note broken gouge @ 489'.													
		Core Angle: 440' = 74°, 450' = 61°; 460' = 76°, good F2 folds; 470' = 82°, 480' = 80°, 490' = 70°.													
499	185.3 608	PALE GREEN QUARTZ - SERICITE - CHLORITE PHYLLITE Sc													
		Excellent F2 foliation. Note locally mottled textures -- porphyroblasts of cc after plag?													
		Thin (3-5 mm) veins, laminae of cream to pinkish quartz-carbonate. Minor pyrite, sphalerite @ 531.5'. Good recovery.	0.4/2		497	499									
		Core Angle: 500' = 75°, 510' = 70°, F2 fold nose; 520' = 75°, 530' = 80°, 540' = 85°.													

DIAMOND DRILL RECORD

LOGGED BY S. B. Reamsbottom

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

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CLAIM No.

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
		Rock becomes more carbonate rich @ 540' onwards. More broken ground. Crumbly, more talcy texture phyllite. Minor pyrite, sphalerite @ 552-553'. Last few feet are sericite rich.	8/9		541	550									
			1.5/2		550	552									
		Core Angle: 550' = 70°, 560' = 76°, 570' = 78°, 580' = 72°, 590' = 67°, 600' = 80°.	0.6		552	553									
			3/4		558	562									
					572	577		Broken, gougy							
185.3 608	192.0 630	BLACK QUARTZ - GRAPHITE PHYLLITE G													
		Thinly laminated, good F2 foliation. Poker chips. Blebs of pyrite.	3/6.5		620	626.5									
		Core Angle: 610' = 72°, 620' = 76°, 630' = 60°.													
630	212.0 695.7	~~PALE GREEN SERICITE - CHLORITE - QUARTZ PHYLLITE~~ Sc													
		With pale carbonate in F1 and F2. Pinkish quartz-carbonate ~~veins. Good F2. c.f. 2 above unit.~~													
		White powdery cc lines carbonate veins. Note graphite phyllite @ 673.6-680' (?) C.A. 640' = 59 , small-scale F2 folds.	0.2/4		676	680		Rock broken.							
		Minor pyrite-pyrrhotite, sphalerite possibly galena - from 664-680'. Quartz veins @ 680'.													
		Core Angle: 650' = 70°, 660' = 76°, 670' = 70°, F2 folds, 680' = 75°, 690' = 69°.													

DIAMOND DRILL RECORD

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PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Sample Footage From	Sample Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
212.0	270.3														
695.7	887	BLACK STRIPED QUARTZ - GRAPHITIC PHYLLITE G													
		Thinly laminated, good F2, locally good F2 fold noses. Thin (0.5') zone of green-chlorite-sericite phyllite with mariposite		Good	Recovery.										
		(711-712') Quartz veins @ 719-725, 740-742'. Rock broken -- 711-725'.													
		Blebs and stringers of pyrite, pyrrhotite with minor sphalerite -- 707', 714' and 746'.													
		Core Angle: 700' = F2 40 , F1 55 opp dip F2 folds, 710' = 77°, 720' = 62°, 730' = 72°, 740' = 60°, 750' = 73°, 760' = 49°.													
		763-808' -- well laminated graphitic phyllite. Blebs of pyrite, lesser pyrrhotite. Excellent recovery.													
		808- -- very striped, altered laminae quartz-graphite, note carbonate		Good	Recovery										
		Core Angle: 770' = 85°, 780' = 60°, 790' = 72°, 800' = 75°, 810' = 84°, 820' = 70°, 830' = 85°, 840' = 80°, 850' = 74°, 860' = 77°.													
		Throughout section excellent F1 laminae, define folded micro-lithous. F1 subvertical to F2; F2 laminae 2-5 mm apart.													
		Local F3 kinks. Minor pyrite blebs. Note graphite rounded clasts at 860'.													
		Core Angle: 870' = 70°, 880' = 65°.													
887	286.5 940	GRAY QUARTZ - SERICITE PHYLLITE WITH WHITE-GREENISH ZONES S													
		1-2' of quartz-sericite-chlorite phyllite. Many quartz veins with granular chlorite. Buff carbonate stringers in F2 foliation.	1/1.0		917	918		6% lead-zinc, Est.							
		Thin zones of sphalerite, pyrite, minor chalcopyrite. Fine-grained sphalerite @ 930'.	1/1.5 1/0.3		924 929.2	925.5 929.7		15-20% lead-zinc. 2.5 Pb Zn, Est.			Sphalerite rich.				

DIAMOND DRILL RECORD

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PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
286.5 940	292.5 959.7	MINERALIZED WHITE QUARTZ - SERICITE PHYLLITE WITH BAND OF S. M	3.5	1930	940	943.5	3.5	0.88	1.74	0.35					
		MASSIVE LAYERED SULPHIDE (1.5' wide)	6	1931	943.5	949.5	6.0	2.23	4.26	1.15			13.38	25.56	6.90
		Sulphide: 25-30%: Fine-grained red spahlerite, galena, pyrite minor chalcopyrite. Grade 8-11%: M.S. band - 15-20%.	1.4		949.5	950.9		chlorite-sericite phyllite					0	0	0
		No. 1930 -- weak mineralized quartz-sericite phyllite: 8% sulphide, 3-5% lead-zinc	6.4	1932	950.9	957.3	6.4	2.28	3.60	1.06			14.592	23.04	6.784
		No. 1931 -- mineralized phyllite, last 1.5' of section massive layered sulphide. 25-30% sulphide, 12-15% lead-zinc	2.4	1933	957.3	959.7	2.4	2.33	2.46	0.82			5.592	5.904	1.968
		No. 1932 -- mineralized quartz-sericite phyllite: 20% sulphide 8% lead-zinc													
		No. 1933 -- weak mineralized phyllite: 3-5% sulphide, 1-3% lead-zinc		WT. AV.	943.5	959.7	16.2	2.07	3.36	0.97	(33.1)		33.564	54.504	15.652
		Core Angle: 945' = 71°, 950' = 75°, 960' = 63°.													
959.7	306.3 1005	GRAY QUARTZ - SERICITE PHYLLITE. LOCALLY GRAPHITIC Sq													
		Bleached 1 foot below sulphides. Dominant F2. Quartz-chlorite veins. Pyrrhotite blebs @ 981' and 1000'.		Recovery Good.											
		Core Angle: 970' = 76°, 980' = 71°, 990' = 81°, 1000' = 67°.													
1005	310.3 1018	PALE WHITE SERICITE - BIOTITE - CHLORITE - QUARTZ PHYLLITE S. bio. c													
		Dark brown biotite in F1 folded laminae; disseminated pyrite in these laminae also, quartz-chlorite veins. Minor pyrrhotite,													
		fine-grained sphalerite @ 1007'.													
		Core Angle: 1010' = 75°. NB Biotite - grade equivalent of quartz-sericite phyllite.													

DIAMOND DRILL RECORD

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PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

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FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
310.3 1018	335.3 1100	GRAY QUARTZ - SERICITE PHYLLITE S. bio													
		Locally chlorite-biotite rich (probably crossed biotite isograd @ 1105') Rock quite phyllitic. Quartz-chlorite veins (1-6")		Good Recovery.											
		Some with carbonate. Thin F1 laminae subvertical to F2. Blebs, stringers of pyrite,													
		Core Angle: 1020' = 76°, 1030' = 67°, 1040' = 76°, F1 opp dip, 1050' = 65°, 1060' = 72°, F1 opp dip, 1070' = 87°, 1080' = 80°, 1090' = 72°, 1100' = 66°.													
1100	344.6 1130.7	ZONE OF BLEACHED BROKEN WHITE QUARTZ - SERICITE PHYLLITE sb													
		and GRAY SERICITE PHYLLITE Quartz veins. Blebs of pyrite.	2/5.5		1113	1118.5									
		Note, rock soft gougy @ 1117-1130.7'.	2/4		1122	1126									
		Core Angle: 1110' = 81°, good F2 folds, 1120' = 55°, 1130' = 65°	2/3.5		1126	1129.5									
1130.7	355.5 1166.5	MASSIVE BANDED PYRITIC SULPHIDE M-Sc													
		Thin (0.5') stringers of chlorite-sericite phyllite in zone. 80-90% sulphide: pyrite, dark brown sphalerite, fine-grained	5.3	1934	1130.7	1136	5.3	5.84	5.40	1.79			30.952	28.62	9.487
		galena, 1-2% magnetite, minor chalcopyrite. Lower 10' or so of section rich in barite.	5	1935	1136	1144	5.0	8.11	8.11	2.56			40.55	40.55	12.80
		No. 1934 -- pyrite, sphalerite, magnetite, galena, 15-20% lead-zinc	5	1136	1141	1146	5.0	5.71	6.12	1.84			28.55	30.60	9.20
		No. 1935 -- M.S. pyrite, sphalerite, matnetite, galena, 15-20% lead-zinc	4	1137	1146	1150	4.0	7.21	8.22	2.18			28.84	32.88	8.72
		No. 1936 -- M.S. 1' phyllite parting: 10-15% lead-zinc	5	1138	1150	1155	5.0	4.20	6.36	1.56			21.00	31.80	7.80
		No. 1937 -- M.S. 15-20% lead-zinc													

DIAMOND DRILL RECORD

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PROPERTY

LATITUDE | BEARING OF HOLE | STARTED

DEPARTURE | DIP OF HOLE | COMPLETED

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
			5	1939	1155	1160	5.0	4.58	6.36	1.56			22.90	31.80	7.80
		No. 1938 -- barite rich, M.S. 1 5% lead-zinc													
		No. 1939 -- banded M.S. 15% lead-zinc	6.5	1940	1160	1166.5	6.5	4.35	6.60	1.62			28.275	42.90	10.53
		No. 1940 -- banded barite, 10% lead-zinc													
		Note, all are magnetitc - (1-3% magnetite)		Wt. Av.	1130.7	1166.5	35.8	5.62	6.68	1.85	(63.5)		201.067	239.15	66.33
		Core Angle: 1140' = 60°, 1150' = 85°, 1160' = 75°.		Wt. Av.	1136.0	1150.0	14.0	7.	7.43	2.19	(75.2)		97.44	104.03	30.72
355.5	419.1	Sb-c.bio													
1166.5	1375	BLEACHED CREAM-WHITE-GREENISH SERICITE - QUARTZ - CHLORITE PHYLLITE (minor biotite-garnet deeper in section) Creamy carbonate sericite laminae. Minor chlorite gives green tinge. Laminae blebs of pyrite, pyrrhotite throughout. Biotite in 1237' followed by garnet @ 1271' (pinkish crystals) Quartz-chlorite throughout.		Recovery Good.											
		Core Angle: 1170' = 75°, 1180' = 85°, 1190' = 65°, 1200' = 68°, 1210' = 55°, 1220' = 75°, 1230' = 70°, 1240' = 77°, 1250' = 65°, 1260' = 60°, 1270' = 70°, 1280' = 71°, 1290' = 75°, 1300' = 69°, 1310' = 74°, 1320' = 78°, 1330' = 70°, 1340' = 75°, 1350' = 74°, 1360' = 70°, 1370' = 70°, 1375' = 76°.													
	1375	END OF HOLE													
		REMARKS: Hole cemented from 1375' upwards, 12 bags used.													

DIAMOND DRILL RECORD

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PROPERTY VANGORDA, GRUM JOINT VENTURE

D.D.H. No. 75-A80 PAGE 1 of 7

	Line Grid	HW Coords
LATITUDE	14 + 09 N	11,090.02'N
DEPARTURE	77 + 94 W	7733.92'E
ELEVATION	4257.74'	1310.56'

BEARING OF HOLE BY TROPARI: 202' -- 144° 00' True; 402' -- 128° 50'; 602' -- 128° 10'; 802' -- 119° 10'; 1002' -- 109° 50' (-90 dip)

DIP OF HOLE BY TROPARI: 202' -- -87° 15'; 402' -- -86° 00'; 602' -- -71° 40'; 802' -- -68° 50'; 1002' -- -64° 40'

DIP TESTS

STARTED May 28, 1975 D.S.

COMPLETED June 3, 1975 N.S.

Proposed:

DEPTH Ultimate: 1136' (346.25m)

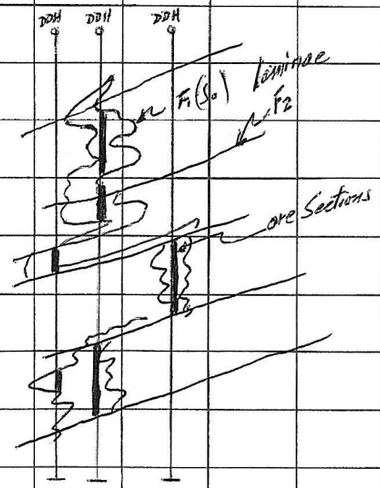
HOLE SIZE: 127 -1136 BQ

0 - 127 BW (actual size 3 7/8" tricone)

CLAIM No.

DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
0	38.71m 127	OVERBURDEN													
127	46.94 154	DARK GRAY, QUARTZ - GRAPHITE PHYLLITE G													
		Minor pyrite. Good F2. F1 locally subvertical.	7.5/9.5		132	147.5									
		Core Angle: 130' = 70°, 140' = 61°, 150' = 52°, F1 subvertical. 39.6 42.7 45.7													
154	129.54 425	GREEN-GRAY, QUARTZ - SERICITE - CHLORITE PHYLLITE Sc													
		With many white laminae, with fine-grained carbonate. Quite limey. Excellent F2. F1 subvertical transposed.													
		Core Angle: 160' = 70°, 170' = 41°, 180' = 65°, F1 subvertical. 48.7 51.8 54.8													
		Possible key to large-scale ore distribution. 190' = 56°, 200' = 68°, 210' = 54°, 220' = 65°, 230' = 70°.													
		Note 208-213' - no core. 240' = 76°, 250' = 64°, 260' = 74°, 270' = mud, 280' = F2 fold nose.	4.5/10		248	258									
		Rock broken, soft, gougy from 248-278'. Talcy. 290' = 66°, 300' = 60°, 310' = 65°, 320' = 62°, 330' = 62°, 340' = 46°, 350' = 45°, 360' = 60°, 370' = 67°, 380' = 69°, 390' = 70°, 400' = 60°, 410' = 62°, 420' = 46°.	4/10		258	268									
			5/10		268	278									
			5/6		278	284									
		Minor pyrite-pyrrhotite 356-357'. Pyrite in tension gashes.	2/4		284	288									
		Rock broken between 374-383'. Quartz-chlorite veins throughout. Rock soft, tacy at 312-328'.	2.5/4		328	332									
			5.5/8.5		332	340.5									



DIAMOND DRILL RECORD

LOGGED BY S. B. Reamsbottom

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

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CLAIM No.

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
129.54 425	141.12 463	BLACK, STRIPED, QUARTZ - GRAPHITIC PHYLLITE G													
		Minor pyrite, red sphalerite in F2 foliation: 444', 453'. Good F2 folds. Tension fractures with pyrite and quartz. Thin	2/4		374	378									
		veins cc.	2/5		378	383									
		Core Angle: 430' = 70°, 440' = 62°, 450' = 72°, 460' = 75°.													
463	152.4 500	GRAY-GREEN, QUARTZ - SERICITE PHYLLITE S													
		Note limey, similar to green chlorite-sericite phyllites in upper part of section.		Good Recovery.											
		Core Angle: 470' = 66°, 480' = 59°, 490' = 66°, 500' = 71°.													
500	159.11 522	GRADES TO GRAY, SERICITE PHYLLITE S													
		With minor chlorite, graphite. Minor pyrite blebs and stringers.		Good Recovery.											
		Core Angle: 510' = 70°, 520' = 75°.													
522	163.98 538	GRADES TO BLACK, QUARTZ - GRAPHITIC PHYLLITE G													
		Minor blebs, stringers pyrite, pyrrhotite, sphalerite. Quartz, cc veins.													
		Core Angle: 530' = 67°.													

DIAMOND DRILL RECORD

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PROPERTY

LATITUDE | BEARING OF HOLE | STARTED

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
163.98 538	171.14 561.5	GREEN-GRAY, QUARTZ - SERICITE - CHLORITE PHYLLITE Sc													
		Carbonate rich. Soft. Quite phyllitic.													
		Core Angle: 540' = 74°, 550' = 70°, 560' = 63°.													
561.5	182.27 598	BLACK, STRIPED, QUARTZ - GRAPHITIC PHYLLITE G													
		Weakly mineralized: 1-3% sulphide, pyrite, minor pyrrhotite and odd blebs of sphalerite between 569-598'.													
		Core Angle: 570' = 75°, 580' = 60°, F2 fold, 590' = 67°.													
598	191.72 629	GRAY-GREEN, QUARTZ - SERICITE PHYLLITE S													
		Locally chlorite rich (green tinge) Also minor graphite. Quartz-chlorite veins. Tension gashes filled by quartz-carbonate	3/5		603	608									
		Rock broken between 603-618'. 183.8 188.4	5/6		608	614									
		Core Angle: 600' = 59°, 610' = 65°, 620' = 62°.	1/4		614	618									
629	221.28 726	DARK GRAY, SERICITE - QUARTZ PHYLLITE S													
		Thinly laminated quite micaceous. Quartz-chlorite veins. Minor pyrite in quartz veins. Quartz has dark green tinge. Note dark	2/4		642	646									
		brown biotite in quartz vein @ 639'.	3/5		646	651									
		Core Angle: 630' = 70°, 640' = 51°, 650' = 60°, 660' = 58°, 670' = 56°, 680' = 44°, 690' = 55°, 700' = 79°.	8/10		658	668									

DIAMOND DRILL RECORD

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PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Sample Footage From	Sample Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
		710' = 70°, 720' = 65°.	3.5/5		668	673		Rock	broken						
			4.2/6		673	679		Rock	broken						
			1.8/2		679	681		Mud gouge							
			3.5/7		681	688		Rock	broken						
			4/5		688	693		Rock	broken						
221.28 726	228.90 751	DARK GRAY-BLACK, GRAPHITE PHYLLITE G	5/9		693	702		Rock	broken						
		Thinly laminated, micaceous.	7/10		728	738									
		Core Angle: 730' = 76°, 740' = 69°, 750' = 56°.	3.5/7		751	758									
751	243.84 800	Grades Back to DARK GRAY, QUARTZ - SERICITE PHYLLITE. LESS GRAPHITE S G.	5/7		774	781									
		F2 folds. Essentially same as above with graphite.	1/3.5		795	799.5		Rock	broken						
		Core Angle: 760' = 45°, 770' = 70°, 780' = 62°, 790' = 70°,	5/8		800	808		Rock	broken						
		800' = 70°.			808	813		Rock	broken						
800	248.11 814	BLACK, GRAPHITE - QUARTZ PHYLLITE G													
		Thinly laminated.													
		Core Angle: 810' = 67°.													

DIAMOND DRILL RECORD

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PROPERTY

LATITUDE | BEARING OF HOLE | STARTED

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
248.11	264.87														
814	869	GRAY, QUARTZ - SERICITE PHYLLITE S			249.42	249.63									
		Rock broken, muddy @ 814-837'. Veins of quartz-buff carbonate. Fragments of brecciated high grade sulphide (818.3-819')	10.7		818.3	819		8-10% lead-zinc estimate							
		Slightly bleached 10-15' before sulphide section. Minor pyrite.			824.5 251.31	827 252.07		Muddy gouge							
		Core Angle: 820' = 60°, 830' = 55°, 840' = 76°, 850' = 61°, 860' = 83°, 870' = 50°.			829	832		Broken rock							
869	270.05 886	MINERALIZED, QUARTZ - GRAPHITIC PHYLLITE G													
		Quartzitic: fine-grained bleby pyrite, sphalerite, minor galena, pyrite-pyrrhotite in late tension gashes.	5.4	1723	869	874.5	5.5	.70	1.44	.24					
		8-15% sulphide: lead-zinc varies 4-6%.	5	1724	874.5	879.5	5.0	1.10	1.80	.44					
		No. 1723 -- mineralized quartz-graphitic phyllite: 8% sulphide, 3% lead-zinc	5.5	1725	879.5	885	5.5	1.25	2.34	.53					
		No. 1724 -- mineralized quartz-graphitic phyllite, 10% sulphide, 5-6% lead-zinc		Wt. Av	869.0	885.0	16.0	2.9	Pb Zn						
		No. 1725 -- mineralized quartz-graphitic phyllite, 10% sulphide, 6% lead-zinc			264.9M	269.7M	4.9M								
		Core Angle: 880' = 76°.													
886	304.19 998	PALE GREEN-WHITE, QUARTZ - SERICITE - CHLORITE PHYLLITE Sc													
		Rock quite sericite rich. Bleached below sulphide section. Blebs and stringers of pyrite-pyrrhotite throughout section.		Good Recovery.											
		Looks grayer between 920-940'. Rock has dark brownish biotite. N.B. Biotite in @ 915', Pyrrhotite at 925'. Quartz-chlorite													
		veins. Thin pyrite, marcasite bands @ 980'. Minor chalcopyrite.													

DIAMOND DRILL RECORD

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PROPERTY

LATITUDE | BEARING OF HOLE | STARTED

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ELEVATION | DIP TESTS | DEPTH Proposed: Ultimate:

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
		Core Angle: 890' = 76°, 900' = 70°, 910' = 70°, 920' = 75°, 930' = 67°, 940' = 60°, 950' = 76°, 960' = 75°, 970' = 86°, 980' = 70°, 990' = 80°.													
304.19 998	320.04 1050	GREEN-GRAY, QUARTZ - SERICITE - CHLORITE PHYLLITE Sc Thinly laminated, not as quartz-sericite rich as above phyllite. Rock broken from 1015-1028'-- poker chips. Core Angle: 100' = 75°, 1010' = 76°, 1020' = 85°, 1020' = 85° 1030' = 80°, 1040' = 75°, 1050' = 81°.													
1050	330.71 1085	GRADES TO PALE WHITE-GREENISH, QUARTZ - SERICITE - CHLORITE S PHYLLITE More quartz-sericite than above unit. Rocks broken from 1055 -1066'. Locally soft, gougy. Minor pyrite in foliation. Core Angle: 1060' = 60°, 1070' = 85°, 1080' = 57°.		Good Recovery.											
1085	3377.18 1108	DARK GRAY-BLACK, GOUGED, MUDDY, MYLONIZED GRAY SERICITE PHYLLITE Sf Thick fault-shear zone marginal to batholith. Note minor pyrite crystals. Core Angle: 1090' = 43 , 1100' = Mud gouge.		Good Recovery.											

DIAMOND DRILL RECORD

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PROPERTY

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LATITUDE BEARING OF HOLE STARTED CLAIM No.

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
337.72	346.25	FOLIATED													
1108	1136	WHITE BLEACHED MEDIUM-GND MUSCOVITE GRANITE ++ granite.													
		Highly altered. Sericite, kaolinized feldspar, epidotized (saussutite).		Good Recovery.											
	1136	END OF HOLE													
		REMARKS: 1. Reasonably "clean" hole.													
		2. Cemented from bottom upwards - used 12 bags of cement.													

DIAMOND DRILL RECORD

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PROPERTY VANGORDA, GRUM JOINT VENTURE

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	Line Grid	H I N Coords		
LATITUDE	2 + 00 S	10,403.99m N	BEARING OF HOLE BY SPERRY SUN	216' -- 22° 20' 416' -- 59° 50' 616' -- 75° 20' 816' -- 65° 20'
DEPARTURE	62 + 21 W	7739.45m E	DIP OF HOLE BY SPERRY SUN	216' -- N.G. 416' -- 80° 05' 616' -- 79° 20' 816' -- 79° 10'
ELEVATION	4142.36'	1275.39m	DIP TESTS	

STARTED May 30, 1975 A.S.

COMPLETED June 4, 1975 D.S.

DEPTH Proposed: 880-930'
Ultimate: 898' (273.71 metres)

0 - 66' -- 3 7/8" Tricone
66 - 898' -- 2 3/16" BQ (55.6 mm)

CLAIM No.

DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Sample From	Sample To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
	20.7														
0	68	OVERBURDEN Many "granite" boulders.													
	36.9														
68	121	DARK GRAY, QUARTZ - SERICITE PHYLLITE S													
		Locally darker bands of more graphitic material from 100' onward. Blebs of pyrite. Rock broken. Quartz veins from 84--113.5'.	0.5/2		81	83									
		Fault gouge @ 101.5-106'.	2.3/11		90	101		Rock	broken						
		Core Angle: 70 = 55°, 80' = 74°, 90' = 50°, 100' = mud, 110' = 36°, 120' = 46°, F1 subvertical. F2 folds,	4/7		101	108		Fault	gouge						
			3/5		108	113									
			3.8/5		113	118									
	45.7														
121	150	GRADES TO BLACK, STRIPED, GRAPHITIC PHYLLITE G													
		F1 subvertical. Good F2 folds. Blebs of pyrite. Rock broken to 142'.	24/27		121	148									
		Core Angle: 130' = 40°, 140' = 71°, 150' = 67°.													
	54.6														
150	179	DARK GRAY, QUARTZ - SERICITE PHYLLITE S													
		Minor graphite. Note ½" band of galena, sphalerite at 159'. (6-8% lead-zinc) Quartz veins. Blebs of pyrite.													
		Core Angle: 160' = 82°, 170' = 57°, 180' = 75°.													

DIAMOND DRILL RECORD

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PROPERTY

LATITUDE | BEARING OF HOLE | STARTED

DEPARTURE | DIP OF HOLE | COMPLETED

ELEVATION | DIP TESTS | DEPTH Proposed: Ultimate:

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NN — DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
179	185 (56.4)	MINERALIZED, BLEACHED, QUARTZ - SERICITE PHYLLITE Sb, P			54.56 M		(1.8)								
		Thin (0.5 mm) bands of pyrite with minor sphalerite, galena.	6	2001	179	185	6	.40	.37	.15					
185	233 (71.0)	SULPHIDE ZONE S M			56.4 M										
		Mainly massive banded pyritic sulphide. Banded, porous texture - possibly leached out sphalerite. Mineralized quartz-graphite	5	2002	185	190	5 (1.9)	2.23	1.91	1.00					
		phyllite sections and bleached sericite phyllite with quartz veins	5	2003	190	195	5	.19	.38	.29					
		Porous sections (15-20 + lead-zinc) Mineralized phyllite.			195	198		weak	mineralized	phyllite	0.5%	lead-zinc			
		5-8% lead-zinc.	3.5	2004	198	207	9 (2.7)	.75	.68	.53					
		No. 2002 -- banded sulphide: pyrite, sphalerite, 50-70% sulphide 4-6% lead-zinc	5	2005	207	212	5	13.92	11.72	4.56			69.60	58.60	22.80
		No. 2003 -- mineralized quartz-sericite phyllite: 50% pyrite, 2-3% lead-zinc	3.5	2006	212	220	8	1.10	1.22	.50			8.80	9.76	4.00
		No. 2004 -- banded pyrite sulphide: mineralized phyllite: pyritic: 6% lead-zinc, 50% sulphide	4	2007	220	224	4	12.52	10.53	4.18			50.08	42.12	(573) 9m 16.72
		No. 2005 -- banded MS 80-90% sulphide: 20-25% lead-zinc													
		No. 2006 -- quartz-feldspar bands + pyritic sulphide: 10-15% sulphide, 3% lead-zinc	2	2008	224	229	5	6.78	8.16	2.26			33.90	40.80	(387) 11.30
		No. 2007 -- M.S. 80% sulphide: porous: 20-25% lead-zinc	2.5	2009	229	233	4	10.50	9.79	3.56			42.0	39.16	(488.23) 9m 14.24
		No. 2008 -- MS locally brecciated: 90% sulphide, 15-20% lead-zinc													
		No. 2009 -- MS banded: porous 20-25% lead-zinc	(7.9)	WITAV	207.0	233.0	26.0	7.86	7.32	2.66	(91.1 9m/WIT.)		204.38	190.44	69.06
			(3.9)	WITAV	220.0	233.0	13.0	9.69	9.39	3.25	(111.4)		125.98	122.08	42.26
		Core Angle: 190' = 56°, 200' = F1 - 30°, banded sulphide; F2 fold? 210' = 50°, F2 fold?, 220' = 79°, sulphide, 230' = 53°.													

DIAMOND DRILL RECORD

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PROPERTY

LATITUDE | BEARING OF HOLE | STARTED

DEPARTURE | DIP OF HOLE | COMPLETED

ELEVATION | DIP TESTS | DEPTH Proposed: Ultimate:

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FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
71.0	168.0														
233	531.5	GREEN QUARTZ - CARBONATE - CHLORITE - SERICITE PHYLLITE													
		Green chlorite-sericite laminae altered with carbonate rich quartz laminae. Thin chlorite-quartz veins. Tension gashes filled with c.c. Good F2. F1 locally subvertical. Pyrite-pyrrhotite in foliation.			233	238		Rock broken, muddy, gougy.							
					Recovery Good.										
		Core Angle: 240' = 60°, 250' = 55°, 260' = 70°, 270' = 75°, 280' = 63°, 290' = 60°, 300' = 65°.													
		Rock broken: 305-307'; 320-323'; 348-349'; 362-367'.	1.8/7		362	369									
		Good small-scale F2 folds: altered quartz-carbonate, chlorite laminae.													
		Core Angle: 310' = 84°, 320' = 59°, 330' = 70°, 340' = 73°, 350' = 60°, 360' = 62°, 370' = 72°, 380' = 75°, 390' = 72°, 400' = 65°, 410' = 80°, 420' = 72°, 430' = 85°, 440' = 80°, 450' = 76°.													
		Note pyrite, pyrrhotite blebs @ 497-506'. Rock more phyllitic (less quartz carbonate) @ 497-515', but essentially same unit. Local F3 kinks.			Recovery Good.										
		Core Angle: 460' = 72°, 470' = 69°, F1 subvertical, 480' = 82°, 490' = 69°, 500' = 71°, 510' = 65°, rock soft muddy @ 488-491', 520' = 76°, 530' = 80°.													
531.5	173.3 568.5	BLACK, STRIPED, QUARTZ - GRAPHITE PHYLLITE													
		Buff quartz-carbonate vein network. Blebs and thin bands of pyrrhotite (563.5') with pyrite, marcasite. Minor sphalerite @ 532'.	2/3		534	537		Rock broken							
		Core Angle: 540' = 67°, 550' = 32°, F2 fold nose, 560' = 62°,	11/11.5		557	568.5		Rock broken.							

DIAMOND DRILL RECORD

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PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
		F1 subvertical possible F2 fold nose before sulphide @ 567'.													
568.5	582 (177.4)	SULPHIDE ZONE M A			173.28 M		(1.7)								
		Banded sulphide in quartz-sericite phyllite gangue. Pyrite, magnetite, sphalerite, galena. (60-70%): 1-3% magnetite, 6-8%	5.5	2010	568.5 (573.3 ~	574 574.0)	5.5 (0.7)	1.05	.88	.47			0.735	0.616	0.329
		lead-zinc. Sulphide brecciated to 572'. Recemented by sulphide.	5	2011	574	579	5.0	2.13	2.34	.76			10.65	11.70	3.80
		No. 2010 -- MS breccia. 70-80% pyrite, 3% lead-zinc (?) Rock broken.	4.3	2012	579	583.3	4.3	2.00	1.90	.74			8.60	8.17	3.182
		No. 2011 -- layered sulphides: 60-80% sulphide, 6-8% lead-zinc													
		No. 2012 -- as above with 1.5' mineralized graphite phyllite. 60% sulphide, 5-6% lead-zinc.		Wt. Av	573.3 124.74	583.3	10.0	2·	2.05	0.73	(25.1)		19.985	20.486	7.311
		Core Angle: 570' = breccia, 580' = 75°.													
582	604.5 (184.2)	MINERALIZED, BLACK, STRIPED, GRAPHITIC PHYLLITE P. G.													
		Poker chips. Blebs of pyrite throughout. F1 subvertical to F2.			583.5	588		Mineralized phyllite -				< 1%	lead-zinc		0.5% Est.
		Core Angle: 590' = 85°, 600' = 75°.			588	591		Weak mineralized phyllite				< 1%	lead-zinc		
604.5	635.3 (193.6)	SULPHIDE ZONE P. S													
		Sulphides (30-50%) in white quartz-sericite phyllite. Locally brecciated, boudined fragments of phyllite in sulphide. Pyrite													

DIAMOND DRILL RECORD

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LATITUDE BEARING OF HOLE STARTED CLAIM No.

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
		red sphalerite, galena: chalcopyrite in tension gashes. Minor	5	2013	604.5 (184.25)	609.5	5	2.63	2.64	1.09			13.15	13.20	5.45
		magnetite. Grade varies 3-8%. No. 2013 -- graphite phyllite: MS bands (6") 50% sulphide, 3%	5.5 / 1.7	2014	609.5 615	615 616.7	5.5 —	2.70 barren	2.64	1.03			14.85 0	14.52 0	5.665 0
		lead-zinc (?) No. 2014 -- sulphide bands in quartz-sericite phyllite: 6-7%	5.0	2015	616.7	621.7	5.0	2.25	2.64	.79			11.25	13.20	3.95
		lead-zinc (30-40% sulphide) No. 2015 -- as above: 6-8% lead-zinc	5	2016	621.7	626.7	5.0	1.68	1.52	.62			8.40	7.60	3.10
		No. 2016 -- as above: 6% lead-zinc No. 2017 -- as above: 5-6% lead-zinc	5	2017	626.7	631.7	5.0	1.88	1.80	.74			9.40	9.00	3.70
		No. 2018 -- mineralized graphite phyllite: 2% lead-zinc	2.4	2018	631.7	635.3	3.6	2.25	2.58	1.00 (1.06 g/t.			8.10	9.29	3.60
		Core Angle: 610' = 80°, 620' = 81°, brecciated phyllite; sulphide breccia, 630' = 74°.	3.20 5.7	Wt. Av. Wt. Av.	604.5 616.7	615.0 635.3	10.5 18.6	2.67 2.00	2.64 2.10	(36.39 g/t. m.r.) (26.5 g/t. m.r.)			28.00 37.15	27.72 39.09	11.115 14.35
				Wt. Av	604.5	635.3	30.8' (9.39m)	2.12	2.17	0.77 g/t 0.83 (28.25 g/t)			65.15	66.81	25.465
635.3	249.3 818	BLACK STRIPED QUARTZ - GRAPHITIE PHYLLITE													
		Rock broken: poker chips. Excellent F2, folded F1 in subvertical orientation. Blebs, thin bands of pyrite, pyrrhotite, minor	1		650	652.5		10-15% sulphide, 3% PbZn, Est.							
		sphalerite, galena.			Good Recovery										
		Core Angle: 640' = 72°, 650' = 80°, 660' = 60°, 670' = 52°, 680' = 72°, 690' = quartz veins, 700' = 65°, 710' = 45°, F2-F3 folds; 720' = rock broken, 730' = 50°. Note F3 (?) fold @ 727'; 740' = 82°, 750' = 63°, 760' = 82°.	5/10		678	688		quartz veins: rock broken							
					688	718		rock broken							
		Phyllite extensively quartz veined between 677-715'. Blebs of pyrite in foliation. Gouge @ 752' and 791.5'.	8/11		718	729		rock broekn, gouged							
			66/69		729	798		rock broken but recovered							
		Core Angle: 770' = 70°, 780' = 82°, 790' = 81°, 800' = 67°, 820' = 35°, rock broken 800-818'.			803	805		gouge							
					805	816		gouged, broken							

DIAMOND DRILL RECORD

LOGGED BY S. B. Reamsbottom

PROPERTY

LATITUDE | BEARING OF HOLE | STARTED

DEPARTURE | DIP OF HOLE | COMPLETED

ELEVATION | DIP TESTS | DEPTH Proposed: Ultimate:

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CLAIM No.

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
	760.3														
818	854	CREAM- GREEN -- LOCALLY BROWNISH CALC. SILICATE ROCK K													
		Limey, rock locally rich in brown mica (phlogopite) and sericite. Green and brown soft carbonate in distended laminae. Minor													
		chlorite, mariposite. Thin parting of brecciated graphite phyllite @ 333'. On shear surface rock has talcy texture -- probably talc.													
		Minor pyrrhotite and pyrite in laminae.													
		NB This calc-silicate schist overlies higher grade staur.-schists													
		in A-77. Also, quite sheared there. Here also Recheck rock types above	2/5		856	861									
		st.-schists in other holes (A-26, A-23, etc.) Probably st.-schists													
		overlain by these rocks throughout area.													
		Core Angle: 830' = 70°, 840' = 57°, 850' = 67°, 860' = 77°.													
		bio gneiss + st.													
	873.7														
854	898	PALE GREEN-BROWN, MEDIUM GRAINED, BIOTITE - GARNET - STAUROLITE SCHIST													
		Rich in white mica, sericite. Also contains chlorite. F2			Good Recovery.										
		foliation dominant. Minor pyrrhotite blebs.													
		Core Angle: 870' = 67°, 880' = 72°, 890' = 65°.													
	898	END OF HOLE													
		REMARKS: 1. Note rocks above sulphide zone (207-233') are soft and broken (fractured), very unstable hanging wall.													
		2. Hole cemented from top downwards, using seven bags of cement. B. Clow.													

DIAMOND DRILL RECORD

LOGGED BY S. B. Reamsbottom

PROPERTY VANGORDA, GRUM JOINT VENTURE

HIW Coords / LINE GRID

LATITUDE 10,961.25 m N — 8 + 15 N (approx.)

DEPARTURE 76 06.81 m E — 78 W

ELEVATION 1312.30 m — 4263' (approx.)

BY TROPARI

BEARING OF HOLE: 202' -- 148° 50' True; 402' -- 146° 20'; 602' -- 147° 50'; 782' -- 132° 50'; 962' -- 118° 50'; 1182' -- 119° 50'

DIP OF HOLE

BY TROPARI

DIP TESTS: 202' -- -85°; 402' -- -79°; 602' -- -76°; 962' -- -78°; 782' -- -77°; 1182' -- -77°

STARTED June 5, 1975 A.S.

COMPLETED June 12, 1975 D.S.

Proposed: 1185-1255'

DEPTH Ultimate: 1195' (364.24 metres)

0 - 47 Tricone 3 7/8"

47 - 1195 BQ

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
0	39	OVERBURDEN													
39	100	GRAY-GREEN, SERICITE - CHLORITE - QUARTZ - PHYLLITE Thinly laminated. Quite limey. Quartz-chlorite veins. Sericite locally buff colour.	2/10		39	49									
					Good Recovery										
		Core Angle: 40' = 60°, 50' = 52°, 60' = 72°, 70' = 76°, 80' = 60°, 90' = 82°, F2 folds F1 subvertical, 100' = 57°													
100	140	GRADES TO GREEN, CHLORITE - SERICITE - QUARTZ PHYLLITE Which is also limey. Striped with white quartz-carbonate laminae (1-3 mm) F2 folds, F1 subvertical to F2.	1.5/4		99	103									
		Core Angle: 110' = 76°, 120' = 70°, 130' = 75°, 140' = 74°.													
140	171	MEDIUM GRAY, QUARTZ - SERICITE PHYLLITE Thinly laminated, good F2 folds, some F3 kinks. Note clasts of black graphite-quartz phyllite at 169'. Rock slightly broken.			Good Recovery										
		Core Angle: 150' = 75°, 160' = 81°, F1 subvertical, 170' = 65°													

DIAMOND DRILL RECORD

LOGGED BY S. B. Reamsbottom

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
171	245	GREEN, CHLORITE - SERICITE - QUARTZ - CARBONATE PHYLLITE													
		With thinner zones of GRAY, QUARTZ - SERICITE PHYLLITE These 1-3' thick. F2 fold noses, later F3 kinks. Competent	2.5/7		214	221									
		rock. Chlorite-quartz veins.	2.5/7		232	239									
		Core Angle: 180' = 70°, 190' = 75°, 200' = 71°, 210' = 81°, 220' = 75°, 230' = 81°, 240' = 75°.													
245	312	GRADES TO GRAY-GREEN, SERICITE - CHLORITE - QUARTZ - PHYLLITE													
		Less carbonate then above. F2 dominant. F1 subvertical. Local small-scale F2 folds. Rock becomes grayer, less chlorite rich from			Good Recovery.										
		290' onward. Thin buff carbonate (?) in laminae.													
		Core Angle: 250' = 62°, 260' = 70°, 270' = 80°, 280' = 67°, 290' = 55°, 300' = 67°, 310' = 47°.													
312	320	BLACK, STRIPED, QUARTZ - GRAPHITIC PHYLLITE													
		Minor sphalerite in laminae 313.5'. Banded pyrrhotite, sphalerite, galena (massive)	6.8 / 2.5		312.0	312.8 / 315.3		2.7	Pb Zn, Est.						
		Core Angle: 320' = 76°.	4.7			320.0		0.2	" " , "						
320	322.5	MINERALIZED, QUARTZ RICH-SERICITE PHYLLITE													
		Quite quartzitic. Laminae with red sphalerite, pyrite, pyrrhotite, lesser galena and chalcopyrite in tenseion gashes. 10%	2.5	2019	320	322.5	2.5	2.78	5.04	.59					
		sulphides, 8% lead-zinc. No. 2019													

DIAMOND DRILL RECORD

LOGGED BY S. B. Reamsbottom

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
322.5	335.4	BLEACHED, PALE WHITE-GREEN, QUARTZ - SERICITE - CHLORITE PHYLLITE													
		Minor carbonate. First 2' of blacker graphite phyllite. Brighter green mariposite locally.	/12.9		322.5	335.4									
		Core Angle: 330' = 57°.													
335.4	345	SULPHIDE ZONE, IN QUARTZ-RICH SERICITE PHYLLITE													
		Fine-grained pyrite, red sphalerite, galena, minor chalcopyrite.	5.6	2020	335.4	341	5.6	1.80	3.06	.83			10.08	17.136	4.648
		No. 2020 -- quartz rich sericite phyllite, fine-grained pyrite, sphalerite, galena, chalcopyrite, 15-20% sulphide, 8% lead-zinc	4	2021	341	345	4.0	1.98	3.42	.83			7.92	13.68	3.32
		No. 2021 -- as above, 15-20% sulphide, 8% lead-zinc.		Wt. Av	335.4	345.0	9.6	1.88	3.21	0.83	(28.5)		18.00	30.816	7.968
		Core Angle: 340' = 65°.													
345	389.5	BLACK, QUARTZ - GRAPHITIC PHYLLITE	/30		345.0	375.0	—								
		Mariposite zone for 1' beyond sulphide. Network buff-quartz-carbonate veins. Many F3 kinks.	5	2022	375	380	5.0	1.63	3.60	.97					
		Core Angle: 350' = 82°, 360' = 62°.	/9.5			389.5	—								
		Mineralized -- 375-380'.													
		Fine-grained sphalerite, pyrite, galena in F1 laminae, locally folded in F2 fold nose. Well defined F2 axial plane.		Good Recovery.											
		5-10% sulphide, 1-3% lead-zinc. N.B. Last 1.5' soft, gougy, mariposite, sericite phyllite, possibly shear zone before massive sulphide.													
		Core Angle: 370' = 76°, 380' = 63°.													

DIAMOND DRILL RECORD

LOGGED BY S. B. Reamsbottom

PROPERTY

LATITUDE | BEARING OF HOLE | STARTED

DEPARTURE | DIP OF HOLE | COMPLETED

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
389.5	409.9	SULPHIDE ZONE													
		Bands of massive sphalerite rich sulphide; mineralized quartz-graphitic phyllite with partings of lustreous gray phyllite.	6	2023	389.5	396	6.5	6.15	10.37	2.68			39.975	67.405	17.42
		Grade varies 25-30% to 8-10%. No. 2023 -- M.S. 90% sulphide, 25-30% lead-zinc	/3.5		396	399.5		Weak mineralized phyllite, 0.5% lead-zinc est. (0.2) (0.3) (0.2) ← USE					0.7	1.05	0.7
		No. 2024 -- Bands of sulphide in phyllite: 20% sulphide, 6-8% lead-zinc	5.5	2024	399.5	405	5.5	2.08	3.30	1.29			11.44	18.15	7.095
		No. 2025 -- as above, 20% sulphide, 6-8% lead-zinc N.B. Phyllite partings in sulphide zone, soft, incompetent.	4.8	2025	405	409.8	4.8	2.05	3.12	1.29			9.84	14.976	6.192
		409.8-410' -- muddy gouge.													
		Core Angle: 400' = 56°.		Wt.Av.	389.5	399.5	10.0	4.06	6.85	1.81	(62.)		40.625	68.455	18.12
				Wt. Av.	399.5	409.8	10.3	2.07	3.22	1.29	(44.2)		21.28	33.126	13.287
409.9	449.8	GRAY, QUARTZ - SERICITE PHYLLITE	/32.2		409.8	442.0									
		Minor graphite. Good F2 foliation.	0.5/6		442	448		Rock muddy, gouged.							
		Core Angle: 410' = 71°, 420' = 86°, 430' = 75°, F1 subvertical, 440' = 73°, (F3 fold ?)			448	449.8		Rock muddy, gouged.							
449.8	455.8	SULPHIDE BRECCIA (to 452')													
		Followed by mineralized quartz-graphite and sericite phyllites. Matrix of breccia mainly fine-grained pyrite. Phyllites, sphalerite rich. 30% sulphide, 8-10% lead-zinc.	6	2026	449.8	455.8	6.0	3.30	6.45	1.21					
		Core Angle: 450' = breccia sulphide, 453' = 62°.													

DIAMOND DRILL RECORD

LOGGED BY S. B. Reamsbottom

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

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FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
455.8	520	BLACK, QUARTZ - GRAPHITIC PHYLLITE													
		Rock broken, incompetent -- 455-501'. Quartz veins. Thin bleached sericite phyllite at sulphide contact. Weakly mineralized for 2 feet past sulphide.	51.2		455.8	501	55.2								
		F2 folds well defined by quartz-feldspar laminae.			515	520		Weakly mineralized 0.3% zinc							
		N.B. Red sphalerite -- 515-520' in F2 foliation.													
		Core Angle: 460' = 66°, 470' = 69°, 480' = 60°, 490' = 72°, F2 folds, 500' = 56°, 510' = 71°, 520' = 63°.													
520	638.2	GRAY, SERICITE - QUARTZ - PHYLLITE													
		Excellent F2 foliation. Local F3 kinks. Very micaceous. Quartz veins (3-4') @ 528' and 555'. Minor blebs of pyrite,		Good Recovery.											
		pyrrhotite. Thick quartz veins -- 592'-604'. Broken quartz.													
		Core Angle: 530' = 76°, 540' = 85°, 550' = 63°, 560' = 76°, 570' = 80°, 580' = 79°, 590' = 66°, 600' = quartz vein, 610' =													
		73°, 620' = 80°, 630' = 70°, 640' = 80°.													
638.2	742.3	BLACK, STRIPED, QUARTZ - GRAPHITE PHYLLITE													
		Excellent F2 folds, good F2 foliation. Blebs of pyrite throughout.		Good Recovery.											
		Core Angle: 650' = 74°, 660' = 70°, 670' = ?													

DIAMOND DRILL RECORD

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PROPERTY

LATITUDE | BEARING OF HOLE | STARTED

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
		Note, pale green partings (1') of sericite-chlorite phyllite locally. Many F2 fold noses between F2 axal planes. Note, band of c.g. red sphalerite in quartz vein @ 742'.		Good Recovery.											
		Core Angle: 670' = 81°, 680' = 76°, 690' = 64°, 700' = F2 fold nose 75°, 710' = 64°, 720' = 72°, 730' = 70°, 740' = 80°.													
742.3	830	GRAY, QUARTZ - SERICITE PHYLLITE													
		Thinly laminated, excellent F2 foliation. Locally chlorite rich. Very phyllitic. Blebs of pyrite, pyrrhotite throughout.		Good Recovery.											
		Core Angle: 750' = 73°, F1 subvertical, 760' = 76°, 770' = 67°, 780' = 75°, 790' = 74°, 800' = 80°, 810' = 63°, 820' = 72°, 830' = 78°.													
830	897	BLACK STRIPED QUARTZ - GRAPHITIC PHYLLITE													
		Good F2 foliation, local F3 kinks. Tension fractures perpendicular to foliation. Rock broken 830-855'. Blebs of pyrite.	20/24		830	854									
		Core Angle: 840' = 85°, 850' = 72°, 860' = 85°, 870' = 78°, 880' = 85°, 890' = 72°.													
897	899.4	BANDED MASSIVE SULPHIDE WITH BARITE													
		60-70% sulphide; barite, pyrite, sphalerite, galena, 10-15% lead-zinc. Core Angle: 898' = 63°.	2.4	2027	897	899.4	2.4	4.72	9.40	2.65					

DIAMOND DRILL RECORD

LOGGED BY S. B. Reamsbottom

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

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FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
899.4	933	GRAY, QUARTZ - SERICITE PHYLLITE													
		Stringers of buff carbonate, minor pyrite. Rock broken, muddy @ 920-925'.													
		Core Angle: 900' = 70°, 910' = 70°, 920' = 64°, 930' = 74°.													
933	958.7	ZONE OF MUDDY, GOUGED, QUARTZ - SERICITE, GRAY AND GREEN PHYLLITES													
		Bleached, altered. Mud @ 936-941' - Brecciated phyllite @ 941-941.5'. Bleached, pale green chlorite-sericite phyllite @ 941.5-951'.													
		Core Angle: 940' = 63°, broken gouged, 950' = 56°.													
958.7	968.5	BANDS OF MASSIVE PYRITE SULPHIDE IN MINERALIZED QUARTZ - GRAPHITIC PHYLLITE AND QUARTZ - SERICITE PHYLLITE													
		Late white cc veins. Sulphide: massive to 20% in phyllite;	5	2028	958.7	963.7	5.0	3.53	4.44	1.59			17.65	22.20	7.85
		pyrite, galena, minor chalcopyrite. Grade 6-12%.	4.8	2029	963.7	968.5	4.8	2.23	4.44	.97			10.70	21.31	4.66
		No. 2028 -- 40-50% sulphide, 10-11% lead-zinc													
		No. 2029 -- 20% sulphide, 6-8% lead-zinc		Wt. Av	958.7	968.5	9.8	2.89	4.44	1.29	(44.1)		28.35	43.51	12.61
		Core Angle: 960' = 83°.													
968.5	980	BLEACHED WHITE, QUARTZ - SERICITE PHYLLITE	7.5		968.5	976									
		Bands, layers of pyrite, pyrrhotite with minor sphalerite @ 976-979'. Minor chlorite. Core Angle: 970' = 70°, 980' = 80°.	3.0		976	979		Mineralized phyllite				< than 1% lead-zinc (Trace)			

DIAMOND DRILL RECORD

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LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

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FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
980	1023	GRAY, SERICITE - QUARTZ PHYLLITE													
		Excellent F2 foliation, phyllitic. Note incoming biotite @ 1012'.													
		Core Angle: 990' = 80°, 1000' = 92°, 1010' = 80°, 1020' = 91°.													
1023	1052	WEAKLY MINERALIZED, WHITE BLEACHED, QUARTZ - SERICITE PHYLLITE													
		Bands (0.5') and concentrations in F1 layers of pyrite-pyrrhotite, minor sphalerite, galena, magnetite.	7	2030	1028	1035	7	.90	.94	.29					
		No. 2030 -- highest grade section in phyllite, 8-10% sulphide, 3% lead-zinc.	/17			1052									
		Core Angle: 1030' = 75°, 1040' = 69°, 1050' = 73°.													
1052	1057	MASSIVE SULPHIDE													
		70% sulphide, 10-15% lead-zinc. Pyrite, orange sphalerite, galena, barite rich.	5	2031	1052	1057	5	4.92	6.35	2.12					
1057	1073.5	MAINLY GRAY, QUARTZ - SERICITE PHYLLITE	/3.0		1057	1060									
		Thinner zones of mineralized black quartz-graphite phyllite. Last 2' of section bleached quartz-sericite phyllite.	/2.0		1060	1062		Weak mineralized graphite phyllite less than 1% lead-zinc (TRACE)							
		Core Angle: 1060' = 70°, 1070' = 75°.	/11.5			1073.5									

DIAMOND DRILL RECORD

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PROPERTY

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FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
1073.5	1104	BANDED, SULPHIDE IN QUARTZ - (MINOR C.G.) . BARITE GANGUE	5	2032	1073.5	1078.5	5	4.28	3.18	1.32					
		70% sulphide	5	2033	1078.5	1083.5	5	3.98	1.34	1.18					
		Layers of pyrite, magnetite, pyrrhotite, lesser sphalerite, galena, chalcopyrite, grade 8-10%.	5	2034	1083.5	1088.5	5	1.38	1.86	.47					
		No. 2032 -- banded sulphide 60-70%: pyrite, magnetite, pyrrhotite sphalerite, galena. Note quite magnetic. Quartz gangue with lesser c.g. barite crystals. 6-8% lead-zinc.	5	2035	1088.5	1093.5	5	1.34	1.56	.56					
		No. 2033 -- No. 2037 -- as above	5	2036		1098.5	5	2.20	3.78	0.68					
		Core Angle: 1080' = 69°, 1090' = 71°, 1100' = 72°.	5	2037		1103.5	5	1.45	2.73	0.53					
			5	2038		1108.5	5	0.49	0.89	0.21					
1104	1133.5	GRADES TO SULPHIDE WITHIN WHITE QUARTZ - SERICITE PHYLLITE GANGUE	5	2039		1113.5	5	0.54	0.88	0.26					
		Note pink garnets, also. Phyllite locally boudinaged -- minor chalcopyrite in fractures and boudin necks. 30-60% sulphide:	5	2040		1118.5	5	0.48	0.54	0.29					
		pyrite, magnetite, pyrrhotie, sphalerite, galena, minor chalcopyrite. Grade varies 3-6%.	5	2041		1123.5	5	0.38	0.35	0.26					
		No. 2038 -- layered sulphide in quartz-sericite-graphite phyllite gangue. 40-60% sulphide, 1-3% magnetite, 5-6% lead-zinc.	5	2042		1128.5	5	0.27	0.47	0.21					
		No. 2039 - No. 2043 -- as above. Grade 4-5% last 3 samples.	5	2043		1133.5	5	0.35	0.29	0.29					
		Core Angle: 1110' = 45°, 1120' = 76°, 1130' = 70-80°, 1140' = 53°.		Wt. Av.	1073.5	1083.5	10.0	4.13	2.26	1.25	(42.9)				
				Wt. Av.		1093.5	10.0	1.36	1.71	0.52	(17.7)				
				Wt. Av.		1103.5	10.0	1.83	3.26	0.61	(20.7)				
				Wt. Av.		1113.5	10.0	0.52	0.89	0.24	(8.1)				
1133.5	1195	WHITE, POSSIBLY BLEACHED, QUARTZ - SERICITE PHYLLITE --		Wt. Av.		1133.5	20.0	0.9	Pb Zn						
		WEAKLY MINERALIZED			1138	1138.5	0.5	MS pyrrhotite, sphalerite 8% lead-zinc							
		Bands and stringers of pyrite mainly in F2 foliation. Note band of massive sulphide (0.5') at 1138'. Minor chlorite in phyllite. F2 dominant.													

DIAMOND DRILL RECORD

LOGGED BY S. B. Reamsbottom

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

D.D.H. No. 75-A82 PAGE 10 of 10

CLAIM No.

N

DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
		Core Angle: 1150' = 65°, 1160' = 70°, 1170' = 72°, 1180' = 79°, 1190' = 75°.													
	1195	END OF HOLE													
		REMARKS: 1. Hole cemented from bottom upwards, using 30 bags of cement.													

DIAMOND DRILL RECORD

LOGGED BY J. Paxton

PROPERTY: VANGORDA, GRUM JOINT VENTURE

D.D.H. No. 75-A83 PAGE 1 of 8

HIW COORDS / LINE GRID

LATITUDE 10,608.52m (N) — 2S

DEPARTURE 7526.49m (E) — 71 + 85 W approx.

ELEVATION 1289.13m — 4191 ASL approx.

BEARING OF HOLE — BY SPERRY SUN: @176' - 112° 20'; @394' - 112° 20'; @594' - 104° 20'; @794' - 83° 50'; @994' - 66° 20'; @1174' - 18° 20'

DIP OF HOLE -90° — BY SPERRY SUN

DIP TESTS: @176' - 86° 36'; @394' - 80° 18'; @594' - 76° 24'; @794' - 78° 00'; @994' - 79° 00'; @1174' - 78° 20'

STARTED June 5, 1975

COMPLETED June 12, 1975

DEPTH Proposed: Ultimate: 1184' (360.88 metres)

0-19' Tricone (37/8" 19-28' BW 28-1184' BQ

N

DIRECTION AND DISTANCE FROM NE. CLAIM POST

CLAIM No.

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
0	26 ft. (?)	OVERBURDEN													
0	28 (9.53)	CASING.													
28	104	QTZ-SER PHY. Medium gray phyllite. Trace of graphite. Erratic irregular blebs of pyrite. 33-36' gray-green chlorite section. White quartz 43-43.5'; 46-47'; 51-52'. 1" gouge at 63'. Good F1 bands locally strongly crenulated. F2 70° @ 30', 75° @ 40', 70° @ 50', 65° @ 60', 70° @ 70', 80° @ 80', 70° @ 90'. 94-100' strong F2 crumbling of F1 bands. F2 85-90° @ 100'.	75/76											
104	115	Graphitic phyllite. Black with contorted F1 white quartz laminae. F2 80° @ 106', 45° @ 110'.	10/11												
115	135	Pale gray-green chlorite phyllite. Moderate F2 crumpling of F1 bands. F2 = 75° @ 120'.	20/20												
135	160	QTZ-SER PHY. Medium gray phyllite. Trace of graphite. Local 1-10 mm quartz-calcite bands (F?) F2 = 70 to 75°.	21/25												

DIAMOND DRILL RECORD

LOGGED BY J. Paxton

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

D.D.H. No. 75-A83 PAGE 2 of 8

CLAIM No.

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Sample Footage From	Sample Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
		QTZ - CHL - SER PHY													
160	168	Pale gray-green chloritic phyllite. F2 @ 80°.	8/8												
		Several bands of brecciated carbonate in quartz g.m. parallel to F2.													
		QTZ - SER PHY													
168	201	Gray Phyllite													
		Good gray and dark gray 1-5 mm laminae parallel to F2. Well developed L2 at right angles to F2 strike.	25/33												
		F2 = 70° to Calc at 180'.													
201	205	Graphitic Phyllite													
		Crumpled F2 folds. Scattered blebs of pyrite.	4/4												
		QTZ SER PHY													
205	238	Gray Phyllite													
		Crumpled F2 folds continue as previously to 210'. F2 laminae @ 70° @ 210', 80° @ 220', 85° @ 230'. Quartz-carbonate breccia	33/33												
		veins at 221-222, 228-229. Occasional blebs of pyrrhotite and pyrite.													
238	247	Bleached and porous alteration of tuff. Fault Zone ?	9/9												
247	257	Gray Phyllite Same as 205-238'.	10/10												

DIAMOND DRILL RECORD

LOGGED BY J. Paxton

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

D.D.H. No. 75-A83 PAGE 3 of 8

CLAIM No.

N

DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Sample Footage From	Sample Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
257	262	White quartz													
262	378	Sericite-Graphite ? Graphitic Phyllite													
		Minor crumpled F2 folding 262-270'. Strong F2 foliation 70 @ 270', 80 @ 280-300'. White quartz 265-267.5'	110/116												
		303-318 -- ragged irregular veinlets of white quartz and yellow-brown carbonate.													
		-325 -- F2 = 50°													
		-327 -- 10 cm gray fault gouge													
		349-352 -- fault zone. 5 cm mud, remainder quartz-chlorite breccia													
		-340 -- F2 = 50°, 360' = 85°, 370' = 65°.													
378	413	QTZ-SER-GRAPH PHY. Dark Gray Phyllite													
		Gray and dark gray laminations parallel to strong F2 foliation.	35/35												
		Core Angle: 50° @ 410'.													
413	425	QTZ-GRAPH PHY Broken blocky muddy core. Mainly graphitic phyllite. Crossing L2-L3 on F2 planes. Breccia of phyllite in quartz-carbonate g'm". F2 = 40° @ 417'.	7/7												
425	452	QTZ-GRAPH ± SER PHY Gray Phyllite													
		F2 = 60° at 430', 70° @ 440' White quartz 429-430', 431-432.5', 448-450.	25/27												

DIAMOND DRILL RECORD

LOGGED BY J. Paxton

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

D.D.H. No. 75-A83 PAGE 4 of 8

CLAIM No.

N

DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Sample Footage From	Sample Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
		QTZ-SER PHY w/ SULPHS. Bleached.													
452	454	453-452.5 -- buff bleached quartz-sericite rock	2/2												
		452.5-453' - angular breccia of quartz-carbonate fragments in pyrite g.m. (ground mass)													
		453-454' -- buff bleached quartz-sericite rock													
454	462	Massive Sulphide Zone													
		first contact sharp at 60°. Faint banding at 60°. Composition 60% pyrite, 5% lead-zinc, 0.5% copper. 35% quartz-calcite.	8	1810	454	462	8	5.20	3.66	2.12			41.60	29.28	16.96
462	463.5	Bleached sericite schist													
			1.5		462.0	463.5	—						0	0	0
463.5	473,5	Massive Sulphide Zone													
		Very faint banding at 85°. Composition 80% pyrite, 5% lead-zinc, 15% quartz-calcite.	10	1811	463.5	473.5	10	3.53	3.12	1.29			35.30	31.20	12.90
			2.5	1812	473.5	476.0	2.5	1.65	1.98	0.59					
				WT. AV.	454.0	473.5	19.5	3.94	3.10	1.53	(52.5)		76.90	60.48	29.85
473.5	533	Gray Sericite Phyllite													
		Irregular white quartz: 500-501', 510-511' Fault gouge at 518-519'.	48/ 59.5												
533.0	631.5	Chloritic Phyllite													
		Strongly banded. Quartz-calcite laminae (2-5mm) alternating with chloritic laminae. Competent F2 = 75° @ 540', 65° @ 550',	95/ 98.5												

DIAMOND DRILL RECORD

LOGGED BY J. Paxton

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

D.D.H. No. 75-A83 PAGE 5 of 8

CLAIM No.

N

DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
		80° @ 560', 80° @ 570', 80° @ 580', 80° @ 590', 85° @ 600', 80° @ 610', 75° @ 620'.													
		569-570 -- gouge. White quartz 590.0-590.4, 592.5-593'. 613-616 -- gouge													
		QTZ-SER and QTZ-GRAPH Phy, w/Sulphs.													
631.5	648.5	Sulphide Zone													
		631.5-632.5' -- sphalerite parallel to F2, 5% pyrite, 8% lead-zinc	1.0	1813	631.5	632.5	1.0	1.65	3.18	0.83			1.65	3.18	0.83
		632.5-632.9' -- massive pyrite, 70% pyrite, 10% lead-zinc	0.4	1814	632.5	632.9	0.4	3.08	4.14	1.62			1.23	1.66	0.65
		632.9-634.9' -- banded (5-10 mm), siliceous, and pyrite-sphalerite bands. Scattered tension fractures at right angles to F2 filled with chalcopyrite. 30% pyrite and 7% lead-zinc.	2.0	1815	632.9	634.9	2.0	2.30	3.06	0.88			4.60	6.12	1.76
		634.9-636.5' -- massive pyrite with faint bands of sphalerite at 80°. 90% pyrite, 8% lead-zinc.	1.6	1816	634.9	636.5	1.6	1.95	2.58	0.80			3.12	4.13	1.28
		636.5-647.6' -- interbanded 5-20 mm bands of graphite phyllite ~~and pyrite with minor amounts of sphalerite and~~ chalcopyrite. 40% pyrite, 3% lead-zinc.	5.0	1817	636.5	641.5	5.0	0.43	0.44	0.29			4.35	Pb Zn	
			6.1	1818	641.5	647.6	6.1	0.34	0.20	0.21			3.29	" "	
		647.6-648.5' -- massive pyrite with quartz-carbonate, 60% pyrite, ~~2% lead-zinc.~~	0.9	1819	647.6	648.5	0.9	1.33	1.22	0.50			2.3	" "	
				Wt. Av.	631.5	636.5	5.0	2.12	3.02	0.90	(31)		10.602	15.084	4.518
				Wt. Av.	636.5	648.6	12.0	0.8	Pb Zn				9.94	Pb Zn	
648.5	729.0	Graphitic Phyllite													
		Locally non-graphitic. White quartz plus kaolinized feldspar @ 678-679. F2 strong at 80° @ 650', 660', 670', 680', 70° @ 690', 60° @ 700'.	79.0/ 80.5												
		Quartz-calcite tension veinlets at 80-90° to F2.													
		705.5-706 -- 5 mm bands of pyrite and sphalerite.													

DIAMOND DRILL RECORD

LOGGED BY J. Paxton

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

D.D.H. No. 75-A83 PAGE 6 of 8

CLAIM No.

N

DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Sample Footage From	Sample Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
729	734	Massive Sulphides													
		Faintly banded massive pyrite (75° to core angle) Several irregular masses of quartz-calcite containing minor lead-zinc within the massive pyrite.	5	1820	729	734	5	1.03	0.95	0.59					
		QTZ- Graph Phy w/ Sulphs													
734	792	Black and White Striped Rock	/48		734.0	782.0									
		Siliceous white to gray quartzite. 1-3mm beds (?) alternating with black chlorite-graphite material. Wide spaced F2 joints at 80-90° meet F1 bands at generally low angles. Broad, complex F2 folds. 5%-10% pyrite. Competent rock.	10	1821	782.0	792.0	10	0.10	0.46	0.15					
792	800	Fault Zone													
		Graphitic schist, gray fault gouge, plus pyritic black sand.	6/8												
800	835	Gray, Graphite Phyllite													
		Strong F2 at 60°. Open F3 folds contort F2. Massive sulphide are both conformable to and cross cutting to F2.	30/35												
835	843	Massive Sulphides													
		85% pyrite. No visible lead-zinc.	8	1822	835	843	8	0.10	0.07	0.12					

DIAMOND DRILL RECORD

LOGGED BY J. Paxton

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

D.D.H. No. 75-A83 PAGE 7 of 8

CLAIM No.

N

DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
843	847.8	Gray Graphite Phyllite													
		F2 = 60°.	4.0/ 4.8		843.0	847.8	—								
847 .8	850	QTZ-GRAPHITE PHY W/SULPHS Mixture of blackish chlorite-graphite-phyllite-pyrite and quartz	2.2	1823	847.8	850	2.2	1.08	1.26	0.47			2.376	2.772	1.034
		F2 = 30°.													
850	855	QTZ-GRAPH PHY W/SULPHS - Breccia. Breccia of subangular 5-20 mm phyllite fragments in a mixture													
		of pyrite and pyrrhotite and sphalerite. 40% pyrite, 30% pyrrhotite, 5% lead-zinc.	5.0	1824	850	855	5.0	1.60	1.92	0.77			8.00	9.60	3.85
855	860.6	QTZ-GRAPH PHY. W/SULPHS Breccia of large 5-10 cm fragments of phyllite in sulphide g.m.	5.6	1825	855	860.6	5.6	1.38	1.60	0.59			7.728	8.96	3.304
		25% pyrite, 10% lead-zinc.	3.1	1826	860.6	863.7	3.1	1.20	1.62	0.62			3.72	5.022	1.922
				WT.AV.	847.8	863.7	15.9	1.37	1.66	0.64	(21.8)		21.824	26.354	10,110
860.6	864	QTZ-GRAPH PHY W/SULPHS Massive pyrite and pyrrhotite interspersed with graphite													
		phyllite. 40% pyrite, 10% pyrrhotite, 3% lead-zinc	60/ 63.4												
864	900	Dark Gray Graphite Phyllite													
		F2 = 870' @ 75, 880' @ 80, scattered blebs of pyrite and chalco-pyrite. Fault zone 883-888'. Gouge and blocky core.	30/36												

DIAMOND DRILL RECORD

LOGGED BY J. Paxton

PROPERTY

D.D.H. No. 75-A91 83 PAGE 8 of 8

LATITUDE BEARING OF HOLE STARTED CLAIM No.

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

N — DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
		896-899' -- 5-10 cm bands and masses of pyrite and pyrrhotite with minor sphalerite.	3.0	1827	896	899	3.0	1.18	1.08	0.47					
900	939	Gray Sericite Phyllite Strong F2 foliation at 75°. Quartz vein 929-930.8'.	39/39												
939	1184	Dark Gray Graphite Phyllite Black chlorite locally. 948-949' -- quartz-calcite vein at 45 . F2 = 80° @ 930', 80° @ 940', 50° @ 950', 80° @ 960', 75° @ 970', 80° @ 980', 85° @ 990'. 950-956' -- F2 folding, slickensides and minor fault gouge. 970-973' -- irregular 3-5 cm pyrite and quartz veins. F2 = 85° @ 1010', 85° @ 1020', 80° @ 1030', 85° @ 1040', 85° @ 1060', 75° @ 1070', 75° @ 1080', 70° @ 1090', 80° @ 1100', 80° @ 1110'. Occasional hard black augen shaped inclusions. F2 = 70° @ 1120', 65° @ 1130', 75° @ 1140', 80° @ 1150', 55° @ 1160', F2 fold crest. 1163-1170' -- 60° @ 1170', 80° @ 1180'. F3 kink folds at 1181'. Fault gouge 1130.8-1131.0'. Fault gouge 1182.0-1182.5'.	140/145											
	1184	END OF HOLE													
		REMARKS: 1. No water return (? feet) from Collar. 2. Hole cemented from top downwards, 42 bags of cement used. Some cement leaked into fissures.													

DIAMOND DRILL RECORD

LOGGED BY S. B. Reamsbottom

D.D.H. No. 75-A84 **PAGE** 1 of 12

PROPERTY VANGORDA, GRUM JOINT VENTURE

H/W Coords	*Line Grid*	
LATITUDE	BL 0 + 0	*10,782·49 m N*
DEPARTURE	78 W	*7435·08 m E*
ELEVATION	4248' (approx.)	*1307.89 metres*

BEARING OF HOLE BY TROPARI
202' -- error
280' -- 93° 50'
~~480' -- 119° 50'~~
680' -- 111° 50'

DIP OF HOLE
880' -- 79° 50'
1080' -- 75° 20'
1400' -- 38° 20'

DIP TESTS -90°
220' -- error
280' -- 85°
480' -- 82°
680' -- 85°
880' -- 85°
1080' -- 85°
1400' -- 89°

STARTED June 13, 1975 D.S.

COMPLETED June 22, 1975 N.S.

DEPTH Proposed: 1360'
Ultimate: 1498' *(456.59 metres)*

HOLE SIZE:
0 - 20' -- 3 7/8" Tricone
20 - 24' -- BW
24 - 1498' -- BQ

CLAIM No.

DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
0	24	OVERBURDEN (?) Casing ? Suspect overburden negligible. * O.B. = 1 foot. Drill set up 2 ft. below original surface. Hole collared on bedrock (-1) Loose shaly bedrock, unable *to core*. ** [illegible]*													
24	96 ✓	GRAY, QUARTZ - SERICITE PHYLLITE Excellent F2 foliation with many small-scale F2 folds. Blebs of pyrite and pyrrhotite. Thin zone of chlorite carbonate phyllite	7/10.5		53.5	64									
		@ 53.5-64'. Locally graphitic. Rock broken @ 50-64'.	5/7		64	71									
		Core Angle: 30' = 69°, 40' = 85°, 50' = 70°, 60' = 70°, 70' = 56°, 80' = 70°, 90' = 60°.													
96	108	BLACK, STRIPED, QUARTZ - GRAPHITIC PHYLLITE Minor pyrite, Good F2 folds. Core Angle: 100' = 80°, 105' = 70°.													
108	190.5	GRAY, QUARTZ - SERICITE PHYLLITE Local greenish tinge due to chlorite. F2 foliation dominant. Blebs of pyrrhotite, lesser pyrite throughout. White carbonate in veins and also in F1 laminae to lesser extent. Rock competent													
		Core Angle: 110' = 75°, 120' = 67°, 130' = 75°, 140' = 72°, 150' = 62°, 160' = 56°, 170' = 73°, 180' = 69°, 190' = 76°.	Recovery Good.												

DIAMOND DRILL RECORD

LOGGED BY S. B. Reamsbottom

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

D.D.H. No. 75-A84 PAGE 2 of 12

CLAIM No.

DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
190.5	224	GRADES TO PALE GREEN, CHLORITE - SERICITE - QUARTZ - CARBONATE PHYLLITE													
		Striped and altered white (quartz-carbonate) - (chlorite-sericite) laminae (2-3 mm) Small-scale F2 fold noses. Good F2 foliation. Competent rock.		Recovery Good.											
		Core Angle: 200' = 80°, 210' = 72°, 220' = 80°.													
224	252	GRAY, SERICITE - QUARTZ - PHYLLITE													
		With some carbonate in white laminae. F1 subvertical. Good F2. Minor blebs of pyrrhotite. Quartz-chlorite veins.	2.5/10		227	237									
		Core Angle: 230' = 82°, 240' = 75°, 250' = 71°.													
252	282	BLACK-DARK GRAY, QUARTZ - GRAPHITIC PHYLLITE													
		Striped, alternate quartz and graphite micaceous laminae. Thin (0.5') band of white carbonate @ 257'. Zones of less	5/6		267	273									
		graphitic phyllite and white sericite-quartz-phyllite @ 265-278'. Rock broken, muddy @ 267-273', 278-282'.	3/4		278	282									
		C.A. 260' = 76°, 270' = 82°, 280' = 75°													
282	327	ZONE OF ALTERED GRAY, QUARTZ - SERICITE PHYLLITE and WHITE QUARTZ - SERICITE PHYLLITE													
		With thin zones of black graphitic phyllite. Note shear zone (?) of green mariposite quartz-sericite phyllite. Net veined by	0.8/ 1.5		292	293.5									
		white quartz carbonate veins. Rock broken incompetent between 282-298', 305=316'. Possibly down dip from sulphide zone ???	4/5.5		293.5	298									

DIAMOND DRILL RECORD

LOGGED BY S. B. Reamsbottom

PROPERTY

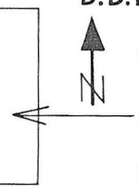
LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

D.D.H. No. 75-A84 PAGE 3 of 12

CLAIM No.



DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
		Core Angle: 290' = 75°, 300' = 42°, F3 fold, 310' = 50°, 320' = 85°.													
327	372.5	PALE WHITE-GREENISH, SERICITE - CHLORITE PHYLLITE WITH ZONE OF GRAY QUARTZ - SERICITE PHYLLITE (carbonate veined) between 339-345'.		Good	Recovery.										
		Blebs and thin bands of pyrite, pyrrhotite in F2 foliation and in tension gashes. Quartz-chlorite veins. Good small-scale F2 folds. Competent rock.													
		Core Angle: 330' = 75o, 340' = 70°, 350' = 75°, 360' = 72°, 370' = 75°.													
372.5	377	BLACK, STRIPED, QUARTZ - GRAPHITE PHYLLITE													
377	430	GRAY, QUARTZ - SERICITE PHYLLITE With thin zone of graphitic phyllite (389-392, 398-400') Rock broken 409-420'. Mud gouge - fault @ 423-424'.													
		Core Angle: 380' = 70°, 390' = 65°, 400' = 76°, 410' = 71°, 420' = 65°, 430' = 85°, F2 folds, F1 subvertical.													

DIAMOND DRILL RECORD

LOGGED BY S. B. Reamsbottom

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

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CLAIM No.

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
430	469	DARK GRAY, SERICITE - QUARTZ - CARBONATE - BIOTITE PHYLLITE Greenish tinge so possible chlorite locally. Note white carbonate with quartz laminae. Excellent small-scale F2 folds. Good F2 foliations. Local F3 kinks subvertical -- white cc veins and blebs of pyrrhotite throughout. Locally graphitic: 464-468'. Core Angle: 440' = 82°, 450' = 78°, 460' = 76°, 470' = 70°.													
469	488	PALE-CREAM-GREENISH, SERICITE - CHLORITE - QUARTZ - CARBONATE PHYLLITE with thin (0.5') graphite partings at 481'. Quite limey. White coarsegrained carbonate veins. Rock slightly bleached. Gouge @ 483-485'. Mariposite @ 486'. Core Angle: 480' = 78°.													
488	503.5	SULPHIDE ZONE Massive sulphide bands (2-8') within bleached sericite phyllite: pyrite, pyrrhotite, magnetite, lesser galena, sphalerite. 3-4% lead-zinc or less. Crystalline c.c. veins. Zone broken, incompetent rock. No. 2044 -- M. banded sulphide: 80% sulphide, 3% lead-zinc. No. 2045 -- as above: net veined by c.c. veins, Schist partings. Core Angle: 490' = 56°, 500' = 67°(?)	2	2044	488	490	2	1.39	0.67	0.50					
			5.0		490	495		Rock broken, gougy. No lead-zinc.							
			8	2045	495	503.5	8.5	1.58	1.50	0.59					

DIAMOND DRILL RECORD

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PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

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CLAIM No.

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
503.5	520	BLEACHED PALE QUARTZ - SERICITE PHYLLITE Net veined with quartz-carbonate. Greenish where chlorite rich.		Good Recovery.											
		Core Angle: 510' = 60°, 520' = 67°.													
520	635	PALE GREEN, CHLORITE - SERICITE - QUARTZ - CARBONATE PHYLLITE Limey green phyllite cc in quartz laminae. Rock broken (525-537') but competent.		Good Recovery											
		Core Angle: 530' = 71°, 540' = 74°, 550' = 73°, 560' = 68°, 570' = 64°.													
		Rock becomes more competent, striped @ 550' onwards. Excellent F2 foliation. Quartz-cc veins. Pyrrhotite blebs with pressure shadows @ 612'.													
		Core Angle: 580' = 74°, 590' = 78°, 600' = 75°, 610' = 68°, 620' = 75°, 630' = 42°.													
635	655	BLACK GRAPHITIC PHYLLITE Quite phyllitic, less quartz. Irregular quartz-chlorite carbonate veins. F2 foliation dominant. Local F2 folds between foliation. Minor pyrite.		Good Recovery.											
		Core Angle: 640' = 65°, 650' = 62°.													

DIAMOND DRILL RECORD

LOGGED BY S. B. Reamsbottom

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

D.D.H. No. 75-A84 PAGE 6 of 12

CLAIM No.

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
655	689	Grades to GRAY, QUARTZ - SERICITE PHYLLITE													
		Note fine-grained sphalerite-galena @ 657'. Rock broken @ 656-665; 673-684'.	2/3		657	660	3								
			10/11		673	684	11								
		Core Angle: 660' = 50°, 670' = 70°, 680' = 63°.													
689	707	ALTERATION ZONE													
		BLEACHED, GOUGED, CARBONATE-VEINED, GRAY, QUARTZ - SERICITE PHYLLITE	1/1.5		689	690.5		Gouge							
		Bleach zone above sulphide.	1.5/2		690.5	692.5		Gouge							
		Core Angle: 690' = 37°, fault?; 700' = 30°, F3 fold.	3.5/4		692.5	696.5									
707	719	SULPHIDE ZONE													
		Mainly massive pyrite, sphalerite with white barite. Pyrite, orange sphalerite, galena, lesser pyrrhotite; barite. 70%	4	2046	707	711	4	3.08	4.86	1.32			12.32	19.44	5.28
		sulphide: grade 10-15% lead-zinc in barite sections.	8	2047	711	719	8	5.63	8.88	2.68			45.04	71.04	21.44
		No. 2046 -- mineralized quartz-sericite phyllite; 30% sulphide: pyrite, pyrrhotite, sphalerite, lesser galena: 5-7% lead-zinc.		Wt. Av	707.0	719.0	12.0	4.78	7.54	2.23	(76.3)		57.36	90.48	26.72
		No. 2047 -- M.S. 70-75% sulphide + barite: pyrite, orange sphalerite, galena, barite; 15% lead-zinc. Some porous texture.													
		Core Angle: 710' = 55°, M.S.													

DIAMOND DRILL RECORD

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PROPERTY

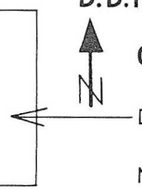
LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

D.D.H. No. 75-A84 PAGE 7 of 12

CLAIM No.



DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Sample Footage From	Sample Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
719	734	BLACK, STRIPED, QUARTZ - GRAPHITIC PHYLLITE Minor dissem. pyrite, sphalerite, galena for 2 feet after sulphide.													
		Core Angle: 720' = 52°, 730' = 80°.													
734	746	GRAY, QUARTZ - SERICITE PHYLLITE Good F2. Local incipient boudinage. Minor pyrite.													
		Core Angle: 740' = 72°.													
746	810	PALE GREEN, STRIPED, CHLORITE - SERICITE - QUARTZ - CARBONATE PHYLLITE Excellent F2 with F2 fold noses between foliation. White c.c. quartz laminae. Possible minor biotite. Competent rock.		Good Recovery.											
		Core Angle: 750' = 75°, 760' = 76°, 770' = 71°, 780' = 77°, 790' = 80°, 800' = 78°, 810' = 65°.													
810	831	PALE GRAY, SLIGHTLY BLEACHED, QUARTZ - SERICITE PHYLLITE Note cemented breccia with quartz and chlorite-sericite phyllite fragments @ 816-820'. Rehealed fault. F3 folds make core angles subvertical. Blebs of pyrrhotite.													
		Core Angle: 820' = 60°, 830' = 52°.													

DIAMOND DRILL RECORD

LOGGED BY S. B. Reamsbottom

PROPERTY

D.D.H. No. 75-A84 PAGE 8 of 12

LATITUDE BEARING OF HOLE STARTED CLAIM No.

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

N ← DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
831	850	SULPHIDE ZONE													
		Bands of massive pyrite, pyrrhotite, sulphide within mineralized quartz-graphitic phyllite.	4.3	2048	831	835.3	4.3	1.30	1.84	0.59			5.59	7.912	2.537
		Sulphide: Pyrite with lesser pyrrhotite, dark red sphalerite, galena, minor chlacopyrite, Grade: 10-15%.	4.1	2049	835.3 (839.4~	839.4 840.1)	4.1 (0.7	4.93	5.10	1.59			20.213 0.329	20.91 0.434	6.519 0.224
		Mineralized phyllite: fine-grained dissem. pyrite, pyrrhotite, with lesser sphalerite, galena in F2 foliation. 1-3% lead-zinc.	6.7	2050	839.4	846.1	6.7	0.47	0.62	0.32					
		No. 2048 -- mineralized phyllite, thin bands MS: 25-30% sulphide 4-6% lead-zinc	3.9	2051	846.1	850	3.9	1.38	1.08	0.71					
		No. 2049 -- M.S. banded, locally porous: 80% sulphide, 15% lead-zinc.													
		No. 2050 -- mineralized quartz-graphitic phyllite: 10% sulphide, 1-3% lead-zinc, chalcopyrite		WT. AV.	831.0	840.1	9.1	2.87	3.21	1.02	(35.)		26.132	29.236	9.28
		No. 2051 -- M.S. and mineralized quartz-graphitic phyllite: pyrite pyrrhotite, lesser sphalerite, galena: 5-6% lead-zinc, 30-40% sulphide.													
		Note local small-scale sulphdie breccia recemented by sulphide.													
		Also breccia with phyllite fragments in sulphide mix. Possible concentration of sulphide in F3 folds (?) also.													
		Core Angle: 840' = 67°, 850' = 58°.													
850	910	BLACK, STRIPED, QUARTZ - GRAPHITE PHYLLITE													
		Excellent F2 with F2 folds. Note F3 folding. F2 small-scale folds at 871'. Rock broken sporadically between 898-910'.													
		Core Angle: 860' = 70°, 870' = 65°, 880' = 84°, 900' = 71°, 910' = 55°.													

DIAMOND DRILL RECORD

LOGGED BY S. B. Reamsbottom

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

D.D.H. No. 75-A84 PAGE 9 of 12

CLAIM No.

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
910	941	SULPHIDE ZONE													
		Massive pyritic sulphide bands in quartz-graphite and quartz-sericite (white) phyllites.	5	2052	910	915	5	1.18	1.02	0.59			11.0	Pb Zn	
		Sulphides layered; pyrite, pyrrhotite, magnetite, lesser galena, sphalerite, chalcopyrite. Note sericite rich gangue - fragments	7.5	2053	915	922.5	7.5	0.95	0.70	0.56			12.32	"	
		cemented by massive sulphides at 910-913': MS 70% sulphide, 4-6% lead-zinc.	5.0		922.5	927.5	—								
		No. 2052 -- bands of sulphide in sericite phyllite, locally brecciated phyllite, 20-30% sulphide, 3-5% lead-zinc	5	2054	927.5	932.5	5.0	0.05	0.40	0.03			2.25	"	
		No. 2053 -- MS in white carbonate gangue, slivers of phyllite, 70% sulphide: pyrite, pyrrhotite, magnetite, chalcopyrite, sphalerite, galena; 3-5% lead-zinc.	5	2055	932.5	937.5	5.0	0.43	0.30	0.38			3.65	"	
		No. 2054 -- bands (1-3') sulphide in quartz-graphite phyllite. 20% sulphide, 1-3% lead-zinc	3.5	2056	937.5	941.0	3.5	0.12	0.07	0.21					
		No. 2055 -- sulphide in white quartz carbonate gangue: 40-50% sulphide, 3-5% lead-zinc		Wt. Au	910.0	922.5	12.5	1.9	Pb Zn				23.4	Pb Zn	
		No. 2056 -- as above		Wt. Au	927.5	937.5	10.0	0.6	" "				5.9	"	
		Core Angle: 920' = 80°, 930' = 65°, 940' = 67°.													
941	1013	Grades through 3' of graphite phyllite to GRAY, QUARTZ - SERICITE PHYLLITE	5/6		953	959									
		Good F2 foliation. Rock broken between 946-993'. Recovery quite good. Local quartz-chlorite veins. Minor pyrite. Network of quartz cc veins 998' onward.	8/9		959	968									
		Core Angle: 950' = 77°, 960' = 59°, 970' = 70°, 980' = 66°, 990' = 65°, 1000' = 72°, 1010' = 81°.			988	992		Rock sheared, gougy, probably fault							

DIAMOND DRILL RECORD

LOGGED BY S. B. Reamsbottom

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

D.D.H. No. 75-A84 PAGE 10 of 12

CLAIM No.

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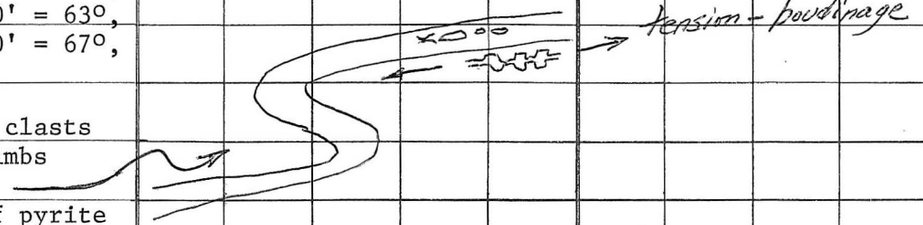
DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
1013	1307.5	BLACK, STRIPED, QUARTZ - GRAPHITIC PHYLLITE													
		Wispy fine-grained sphalerite, galena, pyrite in F1 and F2 laminae Chalcopyrite in tension fractures. Band of massive sulphide			1013	1017		Weak mineralized phyllite 0.5-1% lead-zinc							
		from 1045-1047.5'.		@	1024'	—		Band (½") sphalerite							
		Pyrite, pyrrhotite, magnetite, sphalerite, lesser galena: chalco-													
		pyrite in gashes. Phyllite has blebs, stringers of pyrite,	2.5	2057	1045	1047.5	2.5	3.53	2.46	1.18					
		pyrrhotite throughout. More massive, less banded from 1050' on													
		to 1157'. Quite striped from there on.			1050	1054		Muddy, broken, gouge. ~ Fault ?							
		Core Angle: 1020' = 70°, 1030' = 74°, 1040' = 70°; 1050' = 43°, F3 fold ?, 1060' = 85°, 1070' = 65°, 1080' = 74°, 1090' = 65°.													
		Note rock is locally white quartz mottled appearance where		Excellent Recovery.											
		quartz laminae have been completely transposed. Also circular													
		graphite-cherty clasts from 1100' on. Abundant pyrrhotite,													
		blebs also. Veins with crystalline cc and pyrite.													
		Bands of less graphitic sericite phyllite 1183-1203'.													
		Core Angle: 1100' = 66°, 1110' = 75°, 1120' = 60°, 1130' = 74°, 1140' = 80°, 1150' = 67°, 1160' = 73°, 1170' = 63°, 1180' = 77°, 1190' = 70°, 1200' = 63°, 1210' = 67°, 1220' = 76°.													
		Note zones in white quartz laminae boudined or in which clasts													
		or pyrite blebs have pressure shadows are probably on limbs													
		of F2 folds - more extensional features on limbs!													
		Note from 1250-1307' fine-grained blebs and stringers of pyrite													
		pyrrhotite and dark reddish sphalerite throughout section. Minor													
		chalcopyrite in cross fractures. Rock extremely transposed.													
		Local boudinage and clasts or pyrite crystals with pressure													
		shadows. Subvertical fault zones with crumpled phyllite.													



DIAMOND DRILL RECORD

LOGGED BY S. B. Reamsbottom

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

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CLAIM No.

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
		Core Angle: 1230' = 75°, 1240' = 76°, 1250' = 48°, 1260' = 73°, pyrite with pressure shadows; 1270' = 67°, 1280' = 76°, 1290' = 73°, 1300' = 65°.													
1307.5	1373	MEDIUM GRAY, SERICITE - QUARTZ - PHYLLITE WITH MINOR CHLORITE AND BIOTITE (1330' onward) Local thin (0.25') zones with graphite. F2 dominant, F1 sub-vertical. Minor blebs of pyrrhotite, pyrite, possibly zinc at 1336'. Thin quartz veins with chlorite concentrations. 1330' - biotite isograd. Core Angle: 1310' = 75°, 1320' = 85°, 1330' = 82°. 1340' = 76°, F1 opp dip, 1350' = 89°, 1360' = 70°, 1370' = 84°.												
1373	1385.	DARK GRAY, STRIPED, QUARTZ - GRAPHITE PHYLLITE Blebs of pyrrhotite. Mud gouge @ 1383-1384'. Core Angle: 1380' = 55°.		Excellent Recovery.											
1385	1438	PALE GRAY, LOCALLY GREENISH, SERICITE - QUARTZ - PHYLLITE With minor chlorite and biotite. Rock phyllitic, F2 dominant. Chlorite-quartz veins. Blebs of pyrrhotite and pyrite. Note 1387-1391' -- chlorite carbonate-sericite rich phyllite -- soft and talcy.		Excellent Recovery.											

DIAMOND DRILL RECORD

LOGGED BY S. B. Reamsbottom

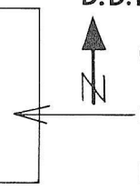
PROPERTY

D.D.H. No. 75-A84 PAGE 12 of 12

LATITUDE BEARING OF HOLE STARTED CLAIM No.

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:



DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Sample Footage From	Sample Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
		Core Angle: 1390' = 77°, 1400' = 71°, 1410' = 70°, 1420' = 76°, 1430' = 69°.													
1438	1498	PALE GRAY, SERICITE - CHLORITE - BIOTITE - GARNET - PHYLLITE Note abundant brown biotite - folded by F2. Small pink garnets appear at 1438'. Therefore, GARNET ISOGRAD at 1438'.		Excellent Recovery.											
		Core Angle: 1440' = 71°, 1450' = 81°, 1460' = 76°, 1470' = 76° 1480' = 68°, 1490' = 83°.													
	1498	END OF HOLE													
		REMARKS: 1. Drilled for fill-in, especially to investigate possible extension of A-10 ore section. Also to investigate possible lead-zinc mineralization extending from sulphide zone (1050'-1150') of A-60. 2. Hole cemented from button upwards, 25 sacks of cement used.													

DIAMOND DRILL RECORD

LOGGED BY M. deQuadros

PROPERTY VANGORDA, GRUM JOINT VENTURE

D.D.H. No. 75-A85 PAGE 1 of 9

Line Grid | NEW Coords

LATITUDE 4N | 10,953.21m N

DEPARTURE 82W | 7431.50m E

ELEVATION 4293' approx. (1318.21 metres)

BY SPERRY SUN
BEARING OF HOLE
DIP OF HOLE

BY SPERRY SUN
DIP TESTS
200' -- 87° 30'
400' -- 84°
600' -- 83°
800' -- 83° 12'
1000' -- 82° 18'
1260' -- 82° 30'
1320' -- 82° 24'

200' -- 78° 50'
400' -- 105° 20'
600' -- 104° 50'
800' -- 137° 20'
1000' -- 180° 20'
1260' -- 183° 20'
1320' -- 183° 20'

STARTED June 13, 1975 D.S.

COMPLETED June 26, 1975 D.S.

DEPTH Proposed: Ultimate: 1414' (430.99 metres)

SIZE OF HOLE: 0 - 98' -- 3 7/8" Tricone
98 - 100' -- BW
100 - 1414' -- BQ

N

DIRECTION AND DISTANCE FROM NE. CLAIM POST

CLAIM No.

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Sample Footage From	Sample Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
0	19 (5.8)	(Triconed) OVERBURDEN													
19	24 (1.3)	Coring, no recovery. Bedrock probably at 20'.													
24	98 (29.8)	Triconed													
98	101 (30.8)	Few QUARTZ - SERICITE - CALCITE PEBBLES -- light gray.													
101	564 (171.9)	CALCAREOUS SHALE (CALCITE - SERICITE PHYLLITE) Light gray.													
		Gray and white finely banded, fine-grained fissile rock with well preserved F1 surfaces. F2 developed resulting in good cleavage with fine crenulations (L3) Moderately competent but parts easily along F2. Quartz 10-15%, sericite 10-15%, calcite 40-60%. Minor pyrite in blebs.	30/35		101	136									
		101-113' -- very fissile, ½" gouge at 108'													
		-128' -- moderately competent but parts easily along F2.	40/45		136	181									
		-140' -- competent. F2 rarer. 62° to core angle.													
		-141' -- sheared, partly gougy													
		-161' -- moderately competent but good parting													
		-162' -- sheared, gougy													
		-178.9'- moderately competent													
		-181'-- very broken with large quartz-calcite vein	24/31		181	212.5									
		181-193' -- relatively competent. F2 57°. 182.5' sheared.													
		-248' -- broken, sheared with gouge at 199-203' (fault),	47/51		212.5	263.5									

DIAMOND DRILL RECORD

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PROPERTY

LATITUDE BEARING OF HOLE STARTED

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		207.5-208' ,													
		220 -201' ,													
		231 -232 ,													
		236' and 240-241'	8/11.5		263.5	275									
		Quartz/calcite veins common between 221.5-248'.													
		248-266' -- blocky, competent; F1 very indistinct; F2 55°, gouge @ 256'. Minor galena/sphalerite @ 251-252'.													
		-272.5'- pale gray non-calcareous quartz-sericite-chlorite phyllite with minor pyrite, lead-zinc. Broken.													
		-275' -- very broken - quartz-calcite phyllite													
		-308.5'- finely banded, moderately competent. Well preserved													
		F1. Occasional pyrite blebs in quartz layers. F2 = 50 . Veins of quartz @ 276' (6") and @ 285' (4")	32/ 33.5		275	308.5									
		-311' -- shear, finely broken	97/		308.5	410									
		311' -- 4" quartz vein with little calcite	101.5												
		-468' -- finely banded quartz-calcite-sericite phyllite.	35/58		410	468									
		Competent but breaks easily along F2. Less calcareous													
		Quartz/calcite infilled fractures subparallel to 30°to C.A.													
		F2 314' -- 75° 354' -- 65°													
		324' -- 70° 389' -- 75°													
		334' -- 60°													
		Below 389', F2 consistently 70-75°.													
		Sheared friable rocks @ 396-401' and 415-416.5' (gouge)													
		Quartz vein @ 402.6' (4")													
		468-512' -- blockier, moderately competent, minor pyrite throughout.	41/44		468	512									
		471.5-472.5' -- fracture infilled with calcite and minor pyrite, pyrrhotite and galena													
		F2 -- 489' -- 70° 503' -- 65°													
		468' -- 60° 508' -- 68°	13/15		512	527									
		512-527' -- very broken core, sheared with gouge at 521' and 526'													
		-564' -- blocky, moderately competent schistese	30/37			564									
		F2 555' -- 70°.													

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FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
171.9 564	181.4 595	QUARTZ - SERICITE ± CHLORITE PHYLLITE Dark gray													
		Dark gray, banded. F2 strongly developed. F1 minor, not generally seen. Very fissile. Gouge @ 572-573' and 594.3-595'.	30/31		564	595									
		F2: 573' = 65°, 582' = 80°.													
595	196.9 646	QUARTZ - SERICITE ± GRAPHITE ± SULPHIDES - PHYLLITE Dark gray													
		Banded, competent but good partings. 90° C.A. Quartz, 65-80%, sericite 10-15%, graphite 5-10%, sulphides 0-20%.	7.5	1941	595 (603.5 ~	603.5 605.0)	8.5 (1.5)	2.18	4.44	1.18			18.530 2.475	37.74 4.95	10.03 1.32
		595-603.5' -- 17% pyrite, 8% lead-zinc	8.5	1942	603.5	612.7	9.2	1.65	3.30	0.88					
		-612.7' -- 10% pyrite, 10% lead-zinc with green flakey mica - fuschite	9	1943	612.7	622.5	9.8	0.83	2.40	0.41					
		613.5-646' -- very graphitic: F2 uneven, average 60°.													
		612.7-622.5' -- 5% pyrite, 2% lead-zinc	10	1944	622.5	632.5	10	1.23	2.10	0.56					
		-632.5' -- 5-6% pyrite, 2-3% lead-zinc													
		-642.5' -- 5-6% pyrite, 4% lead-zinc	10	1945	632.5	642.5	10	1.18	0.96	0.29					
		(618-619' -- very broken)													
				Wt. Av.	595.0	605.0	10.0	2.10	4.27	1.14	(38.9 gm/m.t.)		21.005	42.69	11.35
				Wt. Av.	612.7	642.5	29.8	2.9	Pb Zn				8.7	Pb Zn	
646	262.9 862.5	Sb-P BLEACHED, QUARTZ - SERICITE PHYLLITE Light gray													
		Fine-grained, light gray well foliated rock, generally competent with poor partings along F2.													
		642-652.5' -- 8% pyrite, 3% lead-zinc, F2 60°	10	1946	642.5	652.5	10	0.25	0.62	0.18					
		-662.5' -- 10% pyrite, 4% lead-zinc													
		-672.5' -- 10% pyrite, 3% lead-zinc, F2 60°	10	1947	652.5	662.5	10	0.40	1.08	0.26					
		-682.5' -- 10% pyrite, 4% lead-zinc													
		672-675' -- very broken	10	1948	662.5	672.5	10	0.83	0.94	0.38					
		-692.5' -- 8% pyrite, 2% lead-zinc. F2 62°													
		-702.5' -- 10% pyrite, 4% lead-zinc. F2 65°	9	1949	672.5	682.5	10	0.43	0.68	0.15					

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		702.5'-712.5' -- 15% pyrite, 4% lead-zinc. F2 70°.	10	1950	682.5	692.5	10	0.44	1.14	0.18					
		-718' -- 8% pyrite, 6% lead-zinc.	10	1951	692.5	702.5	10	0.44	1.10	0.15					
		-721.5' -- 2% pyrite, trace of lead-zinc	Wt. Av.		652.5	702.5	50.0	1.5	Pb Zn						
		-728' -- 1% pyrite, 2% lead-zinc	9	1952	702.5	712.5	10	0.80	1.16	0.35					
		-736' -- 1% pyrite, 3% lead-zinc. Very broken, sheared			(708.0	~712.5)	(4.5)						3.60	5.22	1.575
		-744.5' -- 2% pyrite, 5% lead-zinc. Quartz vein.	5	1953	712.5	718	5.5	2.48	5.82	1.00			13.64	32.01	5.500
		-748.5' -- very broken at 739.5-740'; 12 Py, 6 Pb Zn; F2 = 60°, gouge @ 748-748.5'	Wt. Av.		708.0	718.0	10.0	1.72	3.72	0.71	(24.3)		17.24	37.23	7.075
		-756' -- 9% pyrite, 7% lead-zinc	3.0/ 3.5		718	721.5									
		-766' -- 4% pyrite, 2% lead-zinc													
		-776' -- 4% pyrite, 3% lead-zinc. F2 60°	6	1954	721.5	728	6.5	0.19	0.33	0.03			3.38	Pb Zn	
		-786' -- 4% pyrite, 5% lead-zinc. F2 70°													
		(about 40% vein quartz)	4	1955	728	736	8.0	0.22	0.48	0.06			5.60	"	
		-796' -- 5% pyrite, 6% lead-zinc,	Wt. Av.		721.5	736.0	14.5	0.6	Pb Zn				8.98	"	
		-806' -- 5% pyrite, 5% lead-zinc. F2 70°.	8	1956		744.5	8.5	1.37	2.65	0.59			11.645	22.525	5.015
		-810' -- 2% pyrite, 2% lead-zinc. F2 65°.													
		-846.5' -- total sulphides less than 1%	4	1957		748.5	4	2.40	1.56	1.12			9.600	6.240	4.480
		-856.5' -- bleached 813-816', quartz veins at 835-835.8'+	Wt. Av.		736.0	748.5	12.5	1.7	2.30	0.76	(26.0)		21.245	28.765	9.495
		837-837.5'.	7	1958		756	7.5	3.38	2.82	1.32					
		-862' -- bleached quartz-sericite phyllite, 4% pyrite, 2-3% lead-zinc. F2 80°.	10	1959		766	10	1.98	0.92	0.74					
			10	1960		776	10	1.38	3.40	0.56					
			10	1961		786	10	1.02	1.80	0.44					
			10	1962		796	10	3.00	3.96	1.06					
			10	1963		806	10	2.03	2.22	0.88					
			4	1964		810	4	0.74	1.50	0.18					
			34/ 36.5			846.5									

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			10	1965	846.5	856.5	10	0.60	1.10	0.29					
			5.5	1966		862	5.5	0.38	0.61	0.21					
262.7	304.2														
862.0	998.1	MASSIVE, QUARTZ - SULPHIDE ROCK Gray													
		Fine-grained quartz rich rock with varying amounts of sulphide and minor sericite and graphite. Grades into massive sulphide	6.2	1967	862.0	868.2	6.2	3.83	3.96	1.38			23.75	24.55	8.556
		and sericite or graphite phyllite.	5.1	1968		873.3	5.1	2.38	3.72	0.88			12.14	18.97	4.488
		862.0-868.2' -- quartz-graphite sulphide. 25-30% pyrite, 8% lead-zinc	7.8	1969		881.1	7.8	4.73	5.40	1.91			36.89	42.12	14.898
		-873.3' -- as above. 6% pyrite, 6% lead-zinc	6.7	1970		887.8	6.7	0.98	1.68	0.50					
		-881.1' -- as above. 25% pyrite, 12% lead-zinc	9.7	1971		897.5	9.7	0.34	0.28	0.10					
		-887.8' -- as above. 20% pyrite, 6% lead-zinc	12.8	1972		911	13.5	1.20	1.42	0.68					
		-897.5' -- bleached quartz-sericite phyllite. F2 70°. Barren from 889-892'. 2% pyrite, 1-2% lead-zinc.		Wt. Au	862.0	881.1	19.1	3.81	4.48	1.46	(50.2 g/m.t.)		72.778	85.644	27.942
		-911' -- quartz-graphite phyllite. F2 85°. 10% pyrite, 0.5% lead-zinc	7/7			918	—								
		-918' -- quartz-graphite-sericite (?)-sulphide rock. F2 = 80°.	5.6/6			924	—								
		-924' -- 15% pyrite, 0% lead-zinc. 924-924' -- very broken	8.0	1975		934	10.0	1.38	1.40	0.62					
		-939' -- quartz-graphite-sulphide phyllite. Prominent folded F2 planes, large open. Green mica @ 936-937' and quartz vein. 15% pyrite, trace of lead-zinc.	9/9			939									
		939 -947.7' -- quartz-graphite-sericite phyllite, partly bleached, with quartz vein 942-942.6'.	8.7/8.7			947.7									
			8	1978		956.2	8.5	1.14	1.48	0.65					
		-956.2' -- partly barren, 10% pyrite, 1% lead-zinc	4.6	1979		960.8	4.6	0.12	0.32	0.15					
		-960.8' -- quartz-graphite-sulphide phyllite with open F2 folds. 15-20% pyrite, 0.5% lead-zinc.	10	1980		971	10.3	4.13	3.96	1.32					
		-993.5' -- quartz-graphite-sulphide phyllite. F2 60°. 8-10% pyrite, 2-3% lead-zinc. (960.8-971 --7% lead-zinc)													

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		F2 contorted, but generally in open folds	10	1981		982	11	1.22	1.54	0.47					
		with axis 90° C.A. F2 generally 90° C.A.	11.0	1982		993.5	11.5	2.78	2.82	1.06					
		-998.1' -- as above. 8-10% pyrite, 2% lead-zinc	4.6	1983		998.1	4.6	0.07	0.18	0.18					
304.2	306.3				(994.8 ~	998.1)	(3.3)						0.231	0.594	0.594
998.1	1004.8	MASSIVE SULPHIDE + QUARTZ + BARITE													
		998.1-1004.8' -- 40-45% pyrite, 14-16% lead-zinc	6.7	1984	998.1	1004.8	6.7	6.63	12.77	3.38			44.421	85.559	22.646
				Wt. Av.	994.8	1004.8	10.0	4.47	8.62	2.32	(79.7)		44.652	86.153	23.240
	338.1														
1004.8	1109.2	BANDED, QUARTZ - GRAPHITE PHYLLITE Medium gray.													
		Laminated, fissile, incompetent with minor chlorite and calcite.	102/ 104.4		1004.8	1109.2									
		Occasional pyrite-lead-zinc as blebs and rare disseminated crystals. F1 well preserved, F2 generally 60-80° C.A.													
		Generally broken, shear @ 1045-1046'.													
		Overall, pyrite less than 0.2%, trace of lead-zinc.													
		1108-1110' -- green with sericite + fuschite; pyrrhotite @ 1020.2'.													
	361.6														
1109.2	1186.5	QUARTZ - SULPHIDE, BANDED WITH MINOR QUARTZ-CALCITE ± BARITE													
		1109.2-1117.9'-- quartz-sulphide, 20% pyrite, 15% lead-zinc	9.1	1985	1109.2	1118.3	9.1	4.43	6.75	1.91			40.3	61.43	17.381
		-1118.3'-- quartz-chlorite phyllite, minor sulphide													
		-1140 '-- massive quartz-sulphide with minor calcite + barite. F2 45°. 50% pyrite, 10-15% lead-zinc.	9.7	1986		1128	9.7	5.25	6.96	1.91			50.93	67.51	18.527
		-1142' -- quartz-chlorite, barren	8	1987		1136	8.0	5.23	11.53	2.35			41.84	92.24	18.80
		-1156' -- 65% pyrite, 10% lead-zinc (1155-1156-breccia healed)													
		-1160' -- 70% pyrite, 4-6% lead-zinc	4	1988		1140	4.0	4.85	7.48	1.88			19.40	29.92	7.52
		-1165.5'-- 70% pyrite, 6.5% lead-zinc		Wt. Av.	1117.0	1128.0	11.0	5.15	6.94	1.91	(65.5)		56.684	76.287	21.010
				Wt. Av.	1128.0	1140.0	12.0	5.10	10.18	2.19	(75.2)		61.24	122.16	26.32

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		1165.5 -1171.2' -- 70% pyrite, 8% lead-zinc	2/2		1140	1142	–						0	0	0
		-1174' -- 25% pyrite, 15% lead-zinc	10	1989		1152	10	5.98	9.03	2.35			59.80	90.30	23.50
		-1183' -- 22% pyrite, 30% lead-zinc													
		-1186.5' -- 25% pyrite, 15% lead-zinc	4	1990		1156	4	4.54	7.68	1.62			18.16	30.72	6.48
			4	1991		1160	4	1.87	1.56	0.77			7.48	6.24	3.08
			5.5	1992		1165.5	5.5	2.78	3.72	1.03			15.29	20.46	5.665
			5.0	1993		1171.2	5.7	2.45	3.00	1.12			13.965	17.10	6.384
			2	1994		1174	2.8	6.35	9.97	2.65			17.78	27.92	7.42
			8.5	1995		1183	9	9.10	17.13	4.16			81.90	154.17	37.44
			3.5	1996		1186.5	3.5	3.87	4.62	1.79			13.55	16.17	6.265
				Wt. Av.	1109.2	1186.5	77.3	4.92	7.95	2.05	(70.3)		380.398	614.173	158.462
361.6	391.5			Wt. Av.	1171.2	1186.5	15.3	7.40	12.96	3.34	(114.6)		113.225	198.256	51.125
1186.5	1284.6	QUARTZ - SERICITE PHYLLITE Medium gray		Wt. Av.	1171.2	1183.0	11.8	8.45	15.43	3.90	(130.3)		99.68	182.086	44.86
		Barren, fissile broken incompetent rock with some competent layers. F2 variable from 60-90°, generally 80°. F1 generally not displayed. Pyrrhotite common throughout in blebs, esp. 1188-1188.2'. Some alteration visible but not extensive.	16/16		1186.5	1202.5	–								
		1202.5-1209' -- 3-4% pyrite, 0.4% lead-zinc -- bleached	6.5	1997		1209	6.5	0.43	0.26	0.21			4.49	Pb Zn	
		-1211' -- 10% pyrite, 4% lead-zinc -- bleached	2.0	1998		1211	2.0	0.65	1.13	0.41			3.56	"	
		-1272.8' -- quartz-sericite phyllite with calcite (10-15%). Barren but with pyrrhotite and traces of copper, lead-zinc, especially @ 1211-1225'. F2 65-85°. Minor shears @ 1220', 1226.5' and 1236.5'. Pyrrhotite throughout section.	60.2/61.8		1211	1272.8	–								
			9.2			1282.0	–								
		387.95m -1273.1'- massive sulphide - fine-grained, 75% pyrrhotite, 0.4% lead-zinc		Wt. Av.	1202.5	1211.0	8.5	0.9	Pb Zn,	Est.			8.05	Pb Zn	

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		388.0(m) 389.83 1273.1-1279 -- quartz-sericite ± chlorite, slightly altered and greenish. With pyrrhotite and trace of lead-zinc.													
		390.75 -1282 -- quartz-sericite phyllite, dark gray with minor pyrrhotite and pyrite.													
		-1284.6 -- quartz-sericite phyllite, dark gray with pyrrhotite; 2% lead-zinc. F2 throughout 70-80°.	2.6	1999	1282	1284.6	2.6	0.63	1.06	0.26					
391.5 1284.6	400.7 1314.6	QUARTZ - SERICITE - SULPHIDE PHYLLITE Medium gray													
		Variable, well banded and foliated, fissile rock, but competent with sulphide layers. F2 approximately 60-70°.													
		1284.6-1287.5' -- massive sulphide; 70% pyrite, 8-10% lead-zinc with pyrrhotite. 1286-1287' brecciated. F2 60°.	2.9	2000	1284.6	1287.5	2.9	5.12	3.96	1.48			14.848	11.484	4.292
		-1290.9' -- quartz sulphide; 30% pyrite, 4-5% lead-zinc	3.4	2301		1290.9	3.4	.95	.92	.41			3.23	3.128	1.394
		-1296.5' -- massive sulphide; 60% pyrite, 8% lead-zinc	.	2302		1296.5	5.6	4.65	3.66	1.50			26.04	20.496	8.40
		-1312.9' -- quartz-sericite phyllite; trace of lead-zinc. Fissile. Shear @ 1302'; pyrite & pyrrhotite.	16.0/16.4			1312.9									
		-1314.6' -- quartz-sericite sulphide; 8-10% lead-zinc, 5% magnetite.	2.6	2303		1314.6	2.7	2.78	2.76	1.03					
				Wt. Av.	1284.6	1296.5	11.9	3.71	2.95	1.18	(40.6)		44.118	35.108	14.086
1314.6	404.8 1328	BLEACHED, QUARTZ - SERICITE PHYLLITE Light gray.													
		Massive with poor foliation; chloritic in parts, F2 variable, 70-90°. Chloritic parts show F1. With pyrrhotite throughout. Minor copper and lead-zinc at 1314.6-1328'.	13.2/13.4		1314.6	1328									

DIAMOND DRILL RECORD

LOGGED BY M. deQuadros

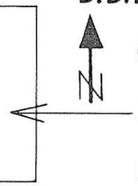
PROPERTY

D.D.H. No. 75-A84 PAGE 9 of 9

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:



CLAIM No.

DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
404.8 1328	425.5 1396.2	QUARTZ - CHLORITE - BIOTITE PHYLLITE Bleached pale gray. Massive greenish gray poorly foliated. With bleached sericite in partings. F2 generally 65-75°. Very competent. Abundant disseminated blebs and layers of pyrrhotite and pyrite. Trace of lead-zinc and copper in fine crystals. Occasional folded F2 with pale F1 just visible.	68.2/ 68.2		1328	1396.2									
1396.2	430.9 1414	QUARTZ - GRAPHITE PHYLLITE Dark gray Thinly foliated, fissile imcompetent rock. Well developed F2 with small folded F1 layers. F2 70-75° C.A. Barren. Milky quartz (pyritic) @ 1409.8-1410.7'.	17.5/ 17.8		1396.2	1414									
	1414	END OF HOLE													

REMARKS:
1. Lost water return @ 912'; thereafter, minor return circulation.
2. No water return below 1272'.
3. Cemented 0-1414' by pouring thick cement down collar.
4. One of few "clean" drill holes.

DIAMOND DRILL RECORD

LOGGED BY J. Paxton

PROPERTY VANGORDA, GRUM JOINT VENTURE

LATITUDE New (11/7) 38 +323.45 ft N / Old ( ) 12 + 03 N

DEPARTURE New (11/7) 23 057.83E / Old ( ) 108+06 W

ELEVATION (7/11/75) 4269.6' ASL / (Old Elev) 4227.5' ASL

BEARING OF HOLE / DIP OF HOLE / DIP TESTS

0'			90°
TROPARI 120'	237° 20'	--	89°
320'	288° 50'	--	89°
600'	129° 20'	--	81°
800'	155° 50'	--	85°
1000'	141° 50'	--	71°
1400'	140° 50'	--	76°
1660'	138° 50'	--	74°

Metric: LAT. = 11,680.81 m N; DEP. = 7027.90 m E; EL. = 1315.61 m

STARTED June 16, 1975

COMPLETED July 4, 1975

DEPTH Proposed: / Ultimate: 2022' (616.31 metres)

D.D.H. No. 75-A86 PAGE 1 of 11

CLAIM No.

N

DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
	7.92														
0	26	OVERBURDEN													
	9.45														
0	31	TRICONED													
	51.82														
31	170	GRAY, SERICITE PHYLLITE S													
		Gray colour. Well developed, silvery F2 surfaces with good L2. Occasionally F1 laminae can be seen. Scattered small quartz-calcite veins, generally highly contorted.	137/139												
		F2 = 90° @ 40', 85° @ 50', 75° @ 60', 80° @ 70', 75° @ 80', 75° @ 90', 90° @ 100', 85° @ 120', 70° @ 130'.													
		109-120' -- blocky core with numerous 10-20 cm irregular quartz-calcite veins.													
		130-170' -- highly calcitic F1 laminae repeatedly cut by													
	54.86														
170	180	GRAY-GREEN, CALCITE - CHLORITE PHYLLITE K EOV	10/10												
	157.58														
180	517	GRAY, SERICITE PHYLLITE SK													
		Similar to 31-170'. 200-517' highly calcitic F2 laminae.	335/337												
		210-212' -- irregular quartz-calcite vein													
		F2 = 85° @ 180', 80° @ 190', 80° @ 200', 75° @ 210', 80° @ 330', 85° @ 230'.													
		Very occasional 5-10 mm pyrite or pyrrhotite blebs.													
		F2 = 90° @ 240', 75° @ 250', 75° @ 260', 70° @ 270', 75° @ 280', 75° @ 290', 75° @ 300', 80° @ 320', 80° @ 340'.													
		269-270' -- fault gouge plus irregular quartz-calcite vein material.													

DIAMOND DRILL RECORD

LOGGED BY J. Paxton

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

D.D.H. No. 75-A86 PAGE 2 of 11

CLAIM No.

N

DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Sample Footage From	Sample Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
		302-310' -- greenish-brown massive limey section.													
		341-342', 354-355', 359-360', 367-368' -- white quartz-calcite veins.													
		350-360' -- occasional blebs of pyrite-magnetite. 360-440' -- occasional blebs of pyrrhotite.													
		428-428.5', 430-431' -- white quartz-calcite veins. F2 = 80° @ 380', 70° @ 400', 90° @ 420', 85° @ 440'													
		433-444' -- fault gouge and breccia, fold crests @ 460', and 495'.													
		Very high calcite 450-500'. F2 = 75 @ 450', 75° @ 470', 85° @ 490', 85° @ 510'.													
517	541 (164.89)	CHLORITIC ARGILLITE 5D													
		Pale gray-green colour with irregular 1-8 cm white quartz-calcite veinlets. F2 not prominent. Not calcitic. Has a massive appearance.	24/24												
541	665 (202.69)	GRAY, SERICITE - CALCITE - CHLORITE PHYLLITE 5B													
		With prominent calcitic F1 laminae. Similar to section 180-517'. F2 = 80° @ 550', 80° @ 560', 85° @ 570', 80° @ 590',	123/124												
		562-563' -- white-quartz-calcite vein 577-577.8' -- white quartz-calcite vein													
		529' -- small white quartz veinlet with scattered blebs of sphalerite, pyrite, galena and arsenopyrite.													
		520-525' -- scattered small blebs of pyrite and pyrrhotite. 599-602' -- blocky core and gouge													
		629-629.5' -- blocky core and gouge													
		F2 = 60° @ 610', 85° @ 630', 80° @ 650'.													

DIAMOND DRILL RECORD

LOGGED BY J. Paxton

PROPERTY

LATITUDE | BEARING OF HOLE | STARTED

DEPARTURE | DIP OF HOLE | COMPLETED

ELEVATION | DIP TESTS | DEPTH Proposed: Ultimate:

D.D.H. No. 75-A83 PAGE 3 of 11

CLAIM No.

N

DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Sample Footage From	Sample Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
	206.35														
665	677	CHLORITIC ARGILLITE 5D													
		Similar to section 517-541'.	12/12												
		658-660' -- white quartz-calcite vein													
		666-667' -- fault gouge. Slickensides at 60°.													
	264.32														
677	867.2	GRAY TO DARK GRAY, SERICITE - CALCITE - CHLORITE PHYLLITE 5B23													
		Scattered calcitic F1 laminae at high angles to F2. F2 = 60° @ 670', 65° @ 690', 75° @ 710', 70° @ 730', 60° @ 750', 60° @ 770', 60° @ 790'.	185/ 190.2												
		623' -- 5 cm fault gouge. Walls at 48°.													
		680-705' -- scattered blebs of pyrrhotite													
		745-746' -- fault gouge and breccia @ 45°.													
		764-767' -- fault gouge. Slightly graphitic.													
		772-775' -- fault gouge and brecciated white quartz.													
		797.5'-798' -- fault gouge													
		806-807' -- fault gouge													
		818-819' -- white quartz vein													
		853-854' -- fault gouge													
		F2 = 85° @ 820', 85° @ 840', 80° @ 860'.													
	268.22														
867.2	880	CHLORITIC ARGILLITE 5D													
		Similar to section 517-541'. First contact sharp at 50°.	12.8/ 12.8												
		Gray-green colour. Fine grained granular texture massive. F2 present but not prominent.													

DIAMOND DRILL RECORD

LOGGED BY J. Paxton

PROPERTY

LATITUDE | BEARING OF HOLE | STARTED

DEPARTURE | DIP OF HOLE | COMPLETED

ELEVATION | DIP TESTS | DEPTH Proposed: Ultimate:

D.D.H. No. 75-A86 PAGE 4 of 11

CLAIM No.

N — DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
	309.07														
880	1014	GRAY, SERICITE - CALCITE - CHLORITE - PHYLLITE 5B73													
		Similar to section 180-517'.	132/												
		F2 = 80° @ 880', 90° @ 900', 80° @ 920', 80° @ 940', 960, 980, 1000	134												
		White quartz 880-881', 918-919', 920-922'													
		933-933.5' -- graphitic fault gouge													
		900-950' -- very scattered small blebs of pyrrhotite and chalcopyrite.													
		1000-1001' -- fault gouge													
	316.97														
1014	1040	BRECCIA ZONE													
		Irregular masses of quartz and dark gray to black fine grained material in an earthy chloritic matrix.	24/26												
		1014-1019' -- streaks of aphanitic brownish material, probably sphalerite and/or biotite.													
		1021-1035' -- scattered pyrrhotite and chalcopyrite													
		1027' -- traces of sphalerite and galena.													
	376.58														
1040	1235.5	DARK GREEN, CHLORITIC PHYLLITE 5D B10													
		Local brown biotite zones	190/												
		Numerous complex folds in F1 laminae. Two and sometimes three lineations on F2.	195.5												
		Local contorted quartz veins, 1-3 cm.													
		F2 = 60° @ 1040', 50° @ 1060', 70° @ 1080', 75° @ 1100', 70° @ 1120', 90° @ 1140', 90° @ 1160'.													
		1130-1132' and 1133-1134' -- white quartz													
		1100-1140' -- scattered pyrrhotite and chalcopyrite													
		1124-1127' -- irregular F3 (?) fold crest with massive pyrrhotite mineralization following the F2.													

DIAMOND DRILL RECORD

LOGGED BY J. Paxton

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

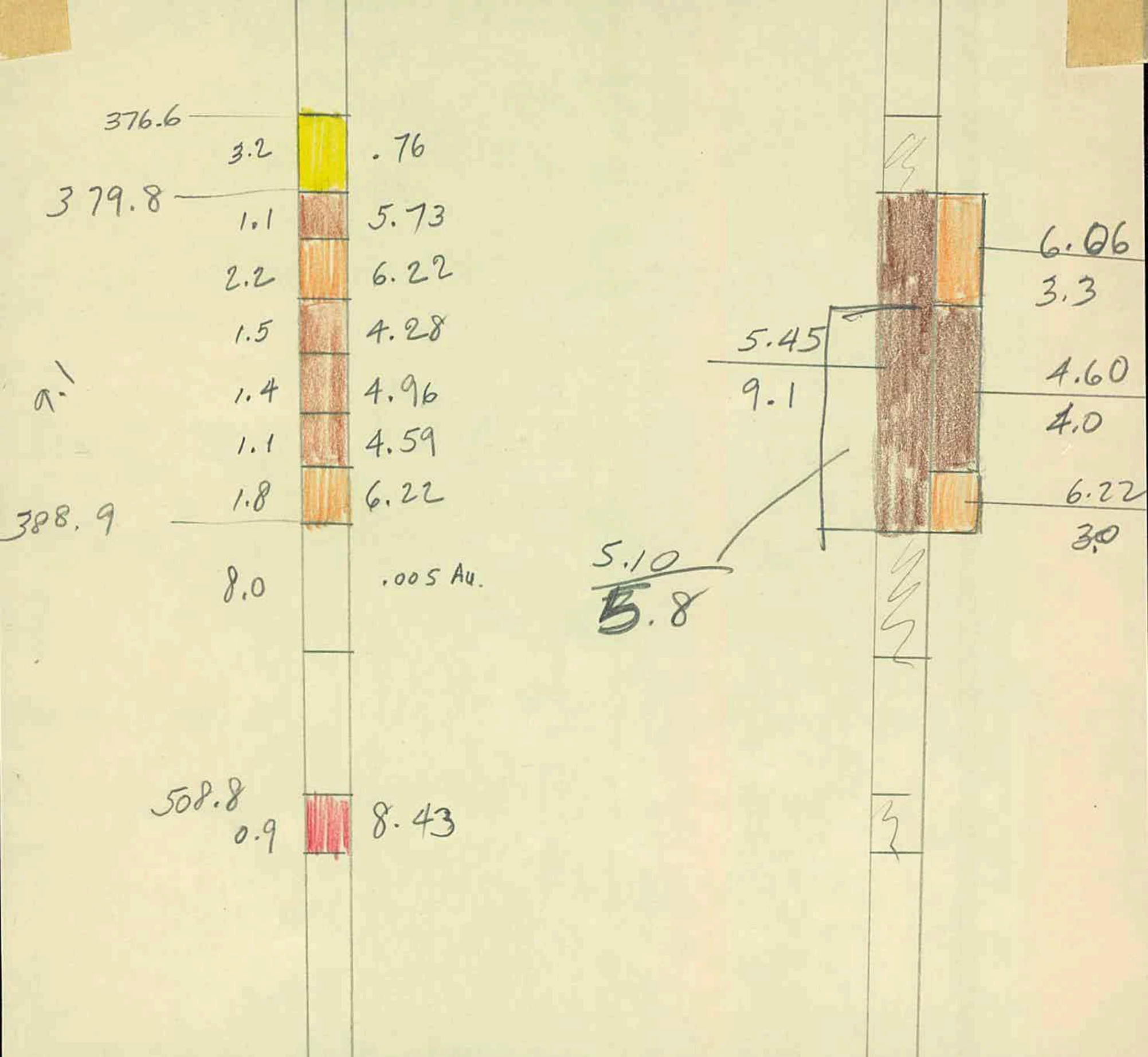
D.D.H. No. 75-A86 PAGE 5 of 11

CLAIM No.

N

DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Sample Footage From	Sample Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag oz/t	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
		1161-1163' -- scattered pyrrhotite, chalcopyrite blebs													
		1176- -- scattered pyrrhotite, pyrite blebs 1170-1171' -- fault gouge at 80°													
		1180-1306' -- scattered pyrrhotite and chalcopyrite blebs. 10cm quartz veins at 1180', 1184', and 1189'.													
		1213-1213.5' and 1226.5-1227 -- gray plastic fault gouge. Minor graphitic slips F2 cutting F1 locally at high angles. F2 = 80° @ 1180', 80° @ 1200', 80° @ 1220'. Fault gouge @ 1233-1235'.													
1235.5	1306	MINERALIZED ZONE	10.5	2101	1235.5	1246	10.5	.43	.33	.12					
		1235.5-1246' -- dark gray phyllite with traces of sphalerite. Estimate .5% lead-zinc.	3.5	2102		1249.5	3.5	2.25	3.48	.88			7.88	12.18	3.08
		1246-1249.5' -- massive pyrite with 1-5 cm inclusions of gray siliceous material and streaks of sphalerite. Estimate 2% lead-zinc.	7.3	2103		1256.8	7.3	2.08	4.14	.91			15.18	30.22	6.64
		1249.5-1257' -- gray silicified phyllite and mineralized F2 laminae at 70-80°. Estimate 10% lead-zinc.	5.0	2104		1261.8	5.0	1.58	2.70	.68			7.90	13.5	3.40
		1257-1265' -- similar to above Estimate 6% lead-zinc	4.6	2107		1266.4	4.6	1.78	3.18	.74			8.19	14.63	3.40
		1265-1271' -- similar to above. Estimate 6% lead-zinc	3.6	2105		1270.0	3.6	1.65	2.94	.71			5.94	10.58	2.56
		1271-1276' -- pale gray chert bands 1-20 mm interbanded with pyrite and sphalerite at 70°. Last 1.5' is massive pyrite with streaks of sphalerite.	6.1	2106		1276.1	6.1	1.60	4.62	.62			9.76	28.18	3.78
		Estimate 12% lead-zinc.	9.7	2109		1285.7	9.7				.005 oz/t				
			3.0	2110	1287.5	1290.5	3.0			Gold Only	.005				
			13.5	2111	1292.5	1306.0	13.5				.005				


376.6
3.2
.76
379.8
1.1
5.73
2.2
6.22
1.5
4.28
1.4
4.96
1.1
4.59
1.8
6.22
388.9
8.0
.005 Au.
508.8
0.9
8.43
5.45
9.1
5.10
5.8
6.06
3.3
4.60
4.0
6.22
3.0

DIAMOND DRILL RECORD

LOGGED BY J. Paxton

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

D.D.H. No. 75-A86 PAGE 6 of 11

CLAIM No.

N

DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
		388.92													
		1276-1285.5' -- massive pyrite with fractured bands of black to gray chert at 70°. Estimate 85% pyrite.		Wt. Au	1246.0 379.78	1256.8 383.07	10.8	2.14	3.93	0.90	(30.9)		23.06	42.40	9.72
		1285.5-1287.5' -gray calcareous rock. Appears massive and fine-grained but with lens strong shear banding		Wt. Au	1256.8	1270.0 387.09	13.2	1.67	2.93	0.71	(24.3)		22.03	38.71	9.36
		(1-2 mm) is evident at 70°. Contacts sharp at 85°.		Wt. Au.	1256.8	1276.1 388.96	19.3 5.83	1.65	3.47	0.68	(23.3)		31.79	66.89	13.14
		1287.5-1290.5'- massive pyrite with chert as previously. Estimate 85% pyrite.													
		1290.5-1292.0' -gray calcareous rock as previously. Contacts at 85°.													
		1292.0-1306' -- massive pyrite as previously. Faint banding @ 75%. ~~Estimate 96% pyrite.~~													
		398.07													
		403.25													
1306	1323	GRAPHITIC PHYLLITE													
		Blocky broken core. Wisps of pyrite plus traces of sphalerite. 1307-1308' -- fault gouge. Walls at 50°.													
		1320-1322' -- white quartz vein with pyrite and pyrrhotite													
		413.92													
1323	1358	MAJOR FAULT ZONE													
		Black graphitic mud and breccia. Second contact sharp at 55°.	19/35												
		435.86													
1358	1430	GRAPHITE - CARBONATE - PHYLLITE													
		Black and white banded with white bands highly calcitic. Blocky muddy core 1394-1399'. Scattered traces of sphalerite py + po with	72/72												
		throughout.													
		F2 = 80° @ 1360', 80° @ 1370', 70° @ 1380', 65° @ 1400'.													

DIAMOND DRILL RECORD

LOGGED BY J. Paxton

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

D.D.H. No. 75-A86 PAGE 7 of 11

CLAIM No.

N

DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Sample Footage From	Sample Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
435.86	463.54														
1430	1488	CHLORITIE - CALCITE PHYLLITE 5B													
		Dark gray green colour. Fissile and strongly banded. 40-50% calcite. Scattered blebs of pyrite and pyrrhotite.	58/58												
		F2 = 85° @ 1440', 85° @ 1460'.													
	463.3														
1488	1520	GRAY, SERICITE PHYLLITE 5B62?													
		Strong F2 = 70° @ 1490', 85° @ 1500'.	32/32												
		1488-1490' -- complex vein of white quartz and brown carbonate (siderite?) at 45°.													
	494.23														
1520	1621.5	CHLORITE - CALCITE - PHYLLITE 5B													
		Numerous blebs of pyrrhotite.	100/												
		1520-1522' -- quartz-brown carbonate zone	101.5												
		1523-1525' -- quartz-brown carbonate zone at 50°.													
		F2 = 1530' @ 70 °, 1540' @ 85° , 1550' @ 85° , 1570' @ 90° , 1590' @ 85°.													
		1595-1597' -- quartz-calcite vein													
		1600-1601' -- quartz-brown carbonate vein													
		1605-1606' -- quartz-brown carbonate vein													
		1612-1613' -- quartz calcite vein													
		1618-1621.5'- irregular quartz-brown carbonate veins 10-20 cm													
	507.49														
1621.5	1665	DARK GRAY, SERICITE - QUARTZ PHYLLITE 5B62													
		No lime. Finely banded. Occasional small F1 folds.	42.0/												
		F2 = 60° @ 1630', 50° @ 1640', 80° @ 1650', 70° @ 1660', 65° @ 1670'.	43.5												
		Occasional irregular 2-5 cm white and brown carbonate veins.													
		1641.5-1642.0' -- fault gouge. Walls at 40°.													
		1654-1656' -- white quartz. Broken core.													

DIAMOND DRILL RECORD

LOGGED BY J. Paxton

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

D.D.H. No. 75-A86 PAGE 8 of 11

CLAIM No.

N

DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
507.49	516.84														
1665	1676	GRAPHITE PHYLLITE													
		1669.3-1672.3' -- mineralized zone 25% pyrite, 5% lead-zonc 5A	3.0	2108	1669.3	1672.3	3.0	3.75	4.68	1.00					
		1672.3-1674.0' -- fault gouge. Walls at 60°.													
	511.76														
1676	1679	SERICITE PHYLLITE Bleached buff. F2 = 60°. 4L	3/3												
	514.2														
1679	1687	GRAPHITE PHYLLITE 5A													
		Sheared and blocky. Numerous short gouge sections. Fault gouge and pyrite 1686-1686.5'.	6/8												
	528.22	5B62->5A													
1687	1733	DARK GRAY TO BLACK, SERICITE PHYLLITE													
		Locally slightly graphitic. Appears to be talcose but not much carbonate.	46/46												
		F2 = 50° @ 1695', 50° @ 1705', 60° @ 1715', 65° @ 1725'.													
	535.53														
1733	1757	GRAPHITE PHYLLITE 5A													
		1733-1734' -- fault gouge Thinly (1-3 mm) laminated at 70°.	22/24												

DIAMOND DRILL RECORD

LOGGED BY J. Paxton

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

D.D.H. No. 75-A86 PAGE 9 of 11

CLAIM No.

N

DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
535.53	537.67														
1757	1764	DARK GREEN CHLORITE PHYLLITE 5D/C													
		Fault gouge at 1764' at 15°.	7/7												
	546.51														
1764	1793	GRAPHITE PHYLLITE 5A													
		Similar to 1733-1757'. Scattered fine pyrite and pyrrhotite. F2 = 70°.	29/29												
	548.94														
1793	1801	DARK GREEN CHLORITE PHYLLITE 5C/D													
		1793-1795' -- white quartz	8/8												
	554.74														
1801	1820	GRAPHITE PHYLLITE 5A													
		Scattered small pyrite and pyrrhotite veinlets. White quartz at 818-819'.	19/19												
	560.83														
1820	1840	CHLORITE - BIOTITE PHYLLITE 5DBio/5C													
		Dark green-brown colour. Low carbonate. Numerous small wisps of pyrite, pyrrhotite and chalcopyrite. Compact and massive with strong F2 at 80°.	20/20												

DIAMOND DRILL RECORD

LOGGED BY J. Paxton

PROPERTY

D.D.H. No. 75-A86 PAGE 10 of 11

LATITUDE BEARING OF HOLE STARTED CLAIM No.

DEPARTURE DIP OF HOLE COMPLETED DIRECTION AND DISTANCE FROM

ELEVATION DIP TESTS DEPTH Proposed: Ultimate: NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
560.83	568.45														
1840	1865	DARK GRAY, GRAPHITE PHYLLITE													
		Numerous small wispy blebs of pyrite and pyrrhotite 1-3 mm.	24/25												
		1859-1860' -- scattered blebs of amorphous dark red sphalerite plus a 20 mm vein of pyrite-pyrrhotite-sphalerite at 80°.													
	591.62														
1865	1941	DARK GRAY, PHYLLITE													
		F2 = 45°. Scattered irregular carbonate veinlets.	76/76												
	593.45														
1941	1947	GRAPHITE PHYLLITE													
		Gouge at 1942', 1944'. F2 = 70-80°.	5/6												
	597.10														
1947	1959	Short sections of (5-30 cm) buff bleached sericite schist	12/12												
		interspersed with highly contorted graphitic phyllite containing numerous 1-5 mm pebbles and angular fragments of quartz. Contacts conformable with foliation at 60°. Bleached sections. contain flakes of green mariposite.													
	602.89														
1959	1978	BRECCIA OR META-CONGLOMERATE													
		Pale buff lenses and pebbles of altered granitic (?) material in a sericite-chlorite matrix.	19/19												

DIAMOND DRILL RECORD

LOGGED BY J. Paxton

PROPERTY

LATITUDE | BEARING OF HOLE | STARTED

DEPARTURE | DIP OF HOLE | COMPLETED

ELEVATION | DIP TESTS | DEPTH Proposed: Ultimate:

D.D.H. No. 75-A86 PAGE 11 of 11

CLAIM No.

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
602.89 1978	616.31 2022	ANVIL GRANITE													
		Contact sharp at 35°. Pale buff colour consists of cream feldspar 50%, quartz 30%. White sericite 20%. Grain size 2-4 mm. Slightly foliate texture with fracturing of larger feldspars and formation of mylonite around grains. Feldspars strongly kaolinitized.	41/44												
	2022	END OF HOLE													
		NOTES: 1. Reason for stopping -- reached Anvil Granite contact.													
		2. Good clean hole.													
		3. Cemented with 16 bags -- cement pumped down the rods.													

DIAMOND DRILL RECORD

LOGGED BY M. deQuadros

PROPERTY VANGORDA, GRUM JOINT VENTURE

LATITUDE New: 36 076.71N (10,996.26 m N) TROPARI Old: 6 + 00 N

DEPARTURE New: 24 519.90 (7473.74 m E) Old: 82 + 07 N

ELEVATION New: 4316' (1315.61 metre)

DEPTH	BEARING	DIP
0		
400'	182° 20'	81° 30'
580'	197° 20'	80°
800'	207° 20'	83°
1000'	157° 20'	82° 30'
1160'	157° 20'	81°

BEARING OF HOLE

DIP OF HOLE

DIP TESTS

STARTED June 20, 1975

COMPLETED July 2, 1975

Proposed:

DEPTH Ultimate: 1399' (426.42 metres)

N

DIRECTION AND DISTANCE FROM NE. CLAIM POST

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CLAIM No.

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Sample From	Sample To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
	0.30														
0	1	OVERBURDEN													
	9.75		1.5/5		32	37									
1	32	Triconed. Note bedrock phyllite weathered to a loosely held together, banded rock.													
	155.2														
32	509.2	CALCAREOUS SHALE (Quartz-sericite-calcite phyllite) with minor cal-musc-chl. phyllite. Medium gray. Fine-grained banded, very fissile rock, with chlorite, generally incompetent with numerous shear zones and tension fractures. F1 generally poorly preserved, F2 dominant, well developed except in highly calcareous parts where lamination poor and rock more massive. Pyrite blebs in quartz vein @ 58.3-59.6'.	2.5/4.5			41.5									
			2.5/4			45.5									
			0.5/9.5			55									
		F2: 37' = 70°, 67' = 70°, 79' = 75°, 90' = 60°, 92' = 45°.	4/4.5			60.5									
		11.3 20.4 24.1 27.4 28.0	2/4.5			65									
			6.5/6.5			71.5									
			6.5/6.5			77									
		45.1 32 - 148 ±	1.5/3			80									
		Sheared rocks at 39-41.6'; 84-85'; 94-95'; tend to be gougy.	1.5/4			84									
		Core very broken 105-118' with minor gouge.	5.5/6			90									
		33.2 36.9 38.7 43.3 44.8 F2: 109' = 90°, 121' = 90°, 127' = 70°, 142' = 60°, 147' = 60°.	3/5			95									
		63.2 148-207.3' -- well foliated but more massive and competent.	4.3/5			100									
		F2: 157' = 85°, 166' = 75°, 171' = 70°, 176' = 60°, 181' = 70° 47.8 50.6 52.1 53.6 55.2													

DIAMOND DRILL RECORD

LOGGED BY _____

PROPERTY _____

D.D.H. No. 75-A87 PAGE 2 of 11

LATITUDE _____ BEARING OF HOLE _____ STARTED _____

DEPARTURE _____ DIP OF HOLE _____ COMPLETED _____

ELEVATION _____ DIP TESTS _____ DEPTH Proposed: Ultimate: _____

CLAIM No. _____

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
		186' = 70°, 191' = 85°, 196' = 80-90°.	10/13			113									
		56.7 58.2 59.7	26/34			147									
		63.2 68.6	49.0/49.1			196.8									
		207.3-225.1' -- fault zone -- rock shattered and broken. Very gougy 207.5-211.9'.	10/10.5		196.8	207.3									
		76.5 Quartz vein with pyrite 212.6-212.9'.	12.5/17.8			225.1									
		-251' -- fissile but competent calcareous shale. Finely banded, striped. F2 dominant, very minor F1. Few F2 folds, open, axis perpendicular to C.A.	22/25.9			251.0									
		F2 -- 225' = 70°. Varying 60-75° in this section. 83.2													
		-273' -- very fissile broken core with sheared zones @ 265'-265.6', 266.6-268' and 271-273'.	16.5/22		251	273									
		F2 generally 70-80°. Development of sericite: 95.7 Rock calcite-sericite-phyllite.													
		-314' -- massive calcareous shale, foliated and striped but competent with minor sericite. F2 70-80°.	38/39		273	314									
		Occasionally erratic due to open folds. F1 folds 96.5 visible. Quartz vein @ 285.5-286.4' with pyrite.													
		-316.6' -- quartz-calcite-sericite phyllite with minor pyrite thinly foliated, fissile, incompetent. F2 90°.	24.9/26.4			350.4									
		-391.8' -- calcareous shale, massive, competent with up to 119.4 5% sericite, especially on parting surfaces. F2 well developed but uneven. F1 visible and folded.	41.0/41.4		350.4	391.8									
		-399.1' -- sheared gouge - calcite-sericite phyllite -- 121.6 very broken rock. Minor py.	4.9/7.3		391.8	399.1									
		-509.2' -- calcareous chlorite phyllite, greenish gray, 155.2 generally competent. Minor sericite and pyrrhotite. Bedding 80-90° overall with minor changes to 65° occasionally. Large milky quartz layers @	22.5/24.2		399.1	423.3									

DIAMOND DRILL RECORD

LOGGED BY M. deQuadros

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
		132.3 425-425.6'; 427.6-428.6'. Gouge at 429.1-429.5'; sheared @ 434-434.4'; broken rocks 442-443' and 444-444.6'. Pyrrhotite at 420.6-421.3' -- small crystals and 454.5'. Shears at 466.6-467; 485.5-486'. 142.2 142.3 147.8 148.1	23.1/23.7		423.3	447									
155.2 509.2	156.7 514.2	QUARTZ - SERICITE PHYLLITE Medium gray. Greenish, altered, well foliated with good partings. Slightly chloritic. Pyritic with minor pyrrhotite blebs. F2 65-75°.	20.2/20.4		476.1	496.5									
514.2	536.8	QUARTZ - GRAPHITE PHYLLITE Dark gray Very well foliated, fissile, thinly banded with F1 visible in parts. F2 uneven, but strong. Partly brecciated. Sheared @ 523.9' 531-532' and 532.7-535'. Mineralized throughout with minor pyrite and pyrrhotite, especially along fractures but with trace of lead-zinc at 535-536.8'. Estimate 0.5% lead-zinc, 5% pyrite.	22.5/22.5		496.5	519									
			14.8/16		515	535									
			1.8	1736	535 163.07m	536.8 163.62	1.8	.45	.76	.26	✓				
536.8	543.6	MASSIVE SULPHIDE With quartz. Broken, with shears. F2 variable. 536.8-541.5' -- 45% pyrite, 20% lead-zinc. F2 -20°.	4.7	1737	536.8 163.62	541.5 165.05	4.7	5.37	9.26	2.38			25.24	43.52	11.186
		-543.6' -- 50% pyrite, 10% lead-zinc. F2 45°.	2.1	1738		543.6 165.69m	2.1	4.35	5.60	2.06			9.14	11.76	4.326

DIAMOND DRILL RECORD

LOGGED BY M. deQuadros

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

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CLAIM No.

N — DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
543.6	578.6	MINERALIZED GRAPHITE PHYLLITE Medium-dark gray.													
178.26m	176.36m	Variable in quartz, graphite and sulphide content. Broken and sheared. Very fissile and incompetent. Mineralization													
		generally along F2 but also rarely along F1. Occasionally calcareous.													
		543.6-546' -- 30% pyrite, 7-8% lead-zinc, F2 45°.	2.4	1739	543.6 (546.0 ~	546 546.8)	2.4 (0.8)	2.93	3.12	1.32			7.032	7.488	3.168
		-554.2' -- 20% pyrite, 5% lead-zinc, breccia @ 552-553'.											0.712	0.816	0.352
		-557.5' -- 2% pyrite, 1% lead-zinc, with fuschite	7.1	1740		554.2	8.2	.89	1.02	.44					
		-561' -- 10% pyrite, 7% lead-zinc. Broken													
		-570' -- 5% pyrite, 1% lead-zinc, shear @ 564-565'.	1.5	1741		557.5	3.3	2.05	3.60	.80			6.765	11.88	2.64
		570-578.6' -- 10-15% pyrite, 2% lead-zinc													
		Fractured, highly folded, mineralization mostly in F2.	2.2	1742		561	3.5	3.15	2.58	1.18			11.025	9.03	4.13
		Arsenopyrite at 574.3' and 578.4'.													
		-575.6' -- arsenopyrite	8.2	1743		570	9.0	1.15	3.96	.59			10.350	35.64	5.31
			8.5	1744		578.6	8.6	.43	.78	.21			10.4 PZ		
188.62m	186.66m →			Wt. Av.	536.8	546.8	10.0	4.21	6.36	1.90	(65.3 %/oz.)		42.118	63.586	19.032
				Wt. Av.	536.8	543.6	6.8	5.06	8.13	2.28	(78.2)		34.374	55.282	15.512
578.6	601.8	QUARTZ - SERICITE PHYLLITE (Schist) Light gray		Wt. Av.	534.2	570.0	15.8	1.78	3.58	0.76	(26.2)		28.14	56.55	12.08
176.36m		Massive, poorly foliated with poor foliation. F2 60° to C.A.	5.8	1745	578.6	584.5	5.9	.10	.15	.06			1.5	PZ	
		Very competent, hard.													
		578.6-584.5' -- 15% pyrite, 1% lead-zinc	1.8	1746		586.3	1.8	.62	.58	.44			2.2	"	
		-586.3' -- 30% pyrite, 0.5% lead-zinc													
		-589.4' -- 15% pyrite, 7.5-9% lead-zinc	3.1	1747		589.4 179.65m	3.1	3.45	5.64	1.62	✓				
		Kinky F2 with faint F1; graphitic													
		589.4-591.6' -- sericite/fuschite	12.0/ 12.4			601.8									
				Wt. Av.	570.0	586.3	16.3	0.9	Pb Zn				14.1	PZ	

DIAMOND DRILL RECORD

LOGGED BY M. deQuadros

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Sample Footage From	Sample Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
601.8 (183.43m)	621.7 (189.49)	QUARTZ - GRAPHITE - SULPHIDE PHYLLITE Medium gray.													
		Massive, irregularly foliated, highly quartzitic rock with poor cleavages. Very competent. With sericite.	9.6	1748	601.8 (183.93m)	611.7 (186.43m)	9.9	1.10	2.28	.53					
		601.8-611.7' -- 12% pyrite, 1.5-2% lead-zinc. F2 75°.	9.5/ 9.6			621.7									
		-621.7' -- barren													
621.7 (189.49)	788 (240.18)	QUARTZ - SERICITE PHYLLITE Light gray													
		Fine, hard, massive, poorly foliated quartzitic rock with sericite and sulphides. F1 and F2 equally developed.	10.6	1749	621.7	631	9.3	2.03	3.30	.83					
		F2 nearly perpendicular to C.Axis	7.6	1750		638.8	7.8	.95	1.20	.44			7.41	9.36	3.432
		621.7-631' -- 4% pyrite, 5% lead-zinc. F2 75°.													
		-638.8' -- 4% pyrite, 2-3.5% lead-zinc	5.0	1751		643.8	5.0	1.40	1.04	.59			7.00	5.20	2.950
		-643.8' -- as above, F2 80°.													
		-649' -- as above	5.0	1752		649	5.2	.62	.44	.26			3.224	2.288	1.352
		-653.6' -- as above; fractured; F2 80°.													
		-663.4' -- 2% pyrite, 8% lead-zinc, fractured	4.6	1753		653.6	4.6	.93	.84	.35			4.278	3.864	1.610
		-666' -- 4% pyrite, 6-8% lead-zinc; slips along F2.		Wt. Av.	631.0	653.6	22.6	0.97	0.92	0.41	(14.2)		21.912	20.712	9.344
		-676' -- 4% pyrite, 6-8% lead-zinc; slips along F2. Fractured.	9.4	1754		663.4	9.8	3.00	4.26	1.21			29.40	41.748	11.858
		-686' -- 2% pyrite, 4-6% lead-zinc, siliceous	2.6	1755		666	2.6	2.00	2.22	.77			5.200	5.772	2.002
		-693' -- 2% pyrite, 4-6% lead-zinc, siliceous			202.20	283.00									
		-697' -- 3-6% pyrite, 6% lead-zinc	10	1756		676	10	3.08	3.90	1.27			30.800	39.000	12.700
		-706.5' -- 3-6% pyrite, 6% lead-zinc		Wt. Av.	653.6	676.0	22.4	2.92	3.86	1.19	(40.7)		65.40	86.52	26.560
		-714.5' -- 10% pyrite, 7% lead-zinc, siliceous	10	1757		686	10	1.30	2.46	.56			13.00	24.60	5.60
		-721.4' -- 6% pyrite, 7% lead-zinc													
		-731' -- 15% pyrite, 12% lead-zinc. F2 80°.	7	1758		693	7	1.13	2.34	.59			7.91	16.38	4.13
		-740.5' -- 15% pyrite, 12% lead-zinc. F2 80°.		Wt. Av.	676.0	693.0	17.0	1.23	2.41	0.57	(19.6)		20.91	40.98	9.73
		-747' -- 10% pyrite, 6% lead-zinc, F2 78°.	4.0	1759		697.1	4.1	1.48	3.12	.65			6.068	12.792	2.665
			9.3	1760		706.5	9.4	1.25	2.85	.56			11.750	26.79	5.264

DIAMOND DRILL RECORD

LOGGED BY M. deQuadros

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
		747-753.5' -- 8% pyrite, 6% lead-zinc	7.8	1761	706.5	714.5	8.0	1.23	2.46	.62			9.840	19.680	4.960
		-761' -- 25% pyrite, 11% lead-zinc. F2 80°.	6.8	1762		721.4	6.9	1.28	2.88	.62			8.832	19.872	4.278
		-766' -- 25% pyrite, 8% lead-zinc		WT. AV.	693.0	721.4	28.4	1.28	2.79	0.60	(20.7)		36.49	79.134	17.167
		-770' -- 0.1% pyrite, 0.01% lead-zinc. F2 80°.	9.4	1763		731	9.6	3.90	3.48	2.21			37.440	33.408	21.216
		-774.2' -- 4% pyrite, 8% lead-zinc with barite													
		-778.5' -- 0.1% pyrite, 0.2% lead-zinc. F2 75°.	9.4	1764		740.5	9.5	2.38	6.66	1.24			22.61	63.27	11.78
		-785' -- 20% pyrite, 18% lead-zinc		WT. AV.	721.4	740.5	19.1	3.14	5.06	1.73	(59.2)		60.05	96.678	32.996
		-788' -- 35% pyrite, 2% lead-zinc. F2 80°.	6.4	1765		747	6.5	.07	.11	.06					
			6.5	1766		753.5	6.5	.17	.16	.09					
				WT. Av	740.5	753.5	13.0	0.12	0.14	0.08					
			7.5	1767		761	7.5	4.20	8.36	2.21			31.50	62.70	16.575
			5	1768		766	5	2.08	7.26	1.32			10.40	36.30	6.60
				WT. AV.	753.5	766.0	12.5	3.25	7.92	1.85	(63.6)		41.90	99.0	23.125
			4.0/ 4.3			770.3									
			3.7	1769		774.2	3.9	3.15	7.61	1.12			12.285	29.679	4.368
			4.0/ 4.3			778.5									
			6.3	1770		785	6.5	7.33	14.54	3.28			47.645	94.51	21.32
				WT. Av.	770.3	785.0	14.7	4.08	8.45	1.75	(59.9)		59.93	124.189	25.688
			2.9	1771		788	3.0	.55	2.34	.38			1.65	7.02	1.14
				WT. Av	778.5	788.0	9.5	5.19	10.69	2.36	(81.1)		49.295	101.53	22.46
				WT. AV.	753.5	785.0	31.5	3.23	7.09	1.55	(53.2)		101.83	223.189	48.863
788	817.1	QUARTZ - SERICITE ± GRAPHITE PHYLLITE Medium gray.													
	24905	Highly banded, well foliated and very fissile barren rock. Well developed F2. F1 non-existent. With occasional pyrite and pyrrhotite. Generally broken. F2 generally 70-80°.	27.5/ 29.1		788	817.1									

DIAMOND DRILL RECORD

LOGGED BY M. deQuadros

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
817.1	836.1	MINERALIZED QUARTZ - SERICITE PHYLLITE Medium gray.													
249.05	254.84	Similar to above, but mineralized. Zinc usually small crystals in foliation giving a spotty appearance. All sulphides in F2.													
		F2 75-85°.	4.8	1772	817.1	822.1	5.0	3.68	4.68	1.65					
		817.1-822.1' -- 4% pyrite, 9% lead-zinc													
		-832.6' -- 2.5% pyrite, 2% lead-zinc	10.3	1773		832.6	10.5	1.20	1.52	.35					
		-836.1' -- 3% pyrite, 2.5% lead-zinc													
			3.4	1774		836.1	3.5	.75	1.04	.32					
836.1	869.3	QUARTZ - SERICITE PHYLLITE Light gray.													
254.84		Barren but with finely disseminated pyrrhotite in blebs. F2 consistent @ 80°, but F1 very visible in very contorted folds.	32.4/ 33.2		836.1	869.3									
		Axis parallel to F2. Quartz veins up to 8". Competent and massive.													
869.3	1025.1	QUARTZ - SERICITE - BIOTITE PHYLLITE Bleached light gray.													
		Same as above but showing minor development of biotite as small flakes. Slight mineralization. Chlorite-pyrrhotite-lead-zinc-copper @ 873-874.5', 879-881', and 894.2-896.4'.	150.2/ 155.8		869.3	1025.1									
		Pyrrhotite @ 904-914'; 965-967' but also as blebs throughout.			266.09-	266.55,	267.92-	268.53	& 272.5	8 -273.	22				
		F2 consistently 75-85 . Chlorite often in large flakes in good partings. Milky quartz 1011.2-1014'. Rock appears partly bleached. Competent and massive.													

DIAMOND DRILL RECORD

LOGGED BY M. deQuadros

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
1025.1	1042.2	MINERALIZED QUARTZ - SERICITE PHYLLITE Light gray.													
312.45	317.66	Essentially same as above, but mineralized. No biotite. Rock massive, competent with mineralization in F2 layers.													
		1025.1-1028.2' -- 2% pyrite, 2% lead-zinc	3.1	1775	1025.1	1028.2	3.1,	.63	.34	.44					
		-1031.8' -- 15% pyrite, 4.5% lead-zinc													
		-1035.0' -- 40% pyrite, 13% lead-zinc	10.1	1776		1039.9	11.7	1.73	2.88	.94					
		-1039.9' -- 20% pyrite, 2% lead-zinc													
		-1042.2' -- 8% pyrite, 2% lead-zinc. F2 80°.	2.0	1777		1042.2	2.3	2.20	3.54	1.09					
1042.2	1059.6	MASSIVE SULPHIDE WITH BARITE													
	322.97	Fine-grained massive rock, hard, competent with minor quartz-sericite layers.													
		1042.4-1048' -- 55% pyrite, 16% lead-zinc. F2 75°.	5.7	1778	1042.2	1048	5.8	4.13	6.15	2.41			23.95	35.67	13.978
		-1052.8' -- 60% pyrite, 15% lead-zinc. F2 60°.													
		-1056.6' -- 55% pyrite, 9% lead-zinc. F2 50°.	4.7	1779		1052.8	4.8	4.80	7.70	3.24			23.04	36.96	15.552
		-1059.6' -- 85% pyrite, 2% lead-zinc. F2 45°.													
			5.6	1780		1058.6	5.8	3.15	5.16	1.53			18.27	29.93	8.874
			0.9	1781		1059.6	1.0	2.78	.50	1.47					
				Wt. Av.	1042.2	1052.8	10.6	4.43	6.85	2.79	(95.5)		46.994	72.63	29.53
1059.6	1062	QUARTZ - GRAPHITE PHYLLITE Dark gray.		Wt. Av.	1042.2	1058.6	10.4	3.98	6.25	2.34	(80.3)		65.264	102.550	38.404
		Thinly banded, quite contorted, fissile, incompetent with up to 4" thick white quartz. Tension fractures common, infilled with quartz and rarely calcite. Mineralized with up to 1% pyrite and no lead-zinc seen.	2.1/ 2.4		1059.6	1062									

DIAMOND DRILL RECORD

LOGGED BY M. deQuadros

PROPERTY

LATITUDE | BEARING OF HOLE | STARTED

DEPARTURE | DIP OF HOLE | COMPLETED

ELEVATION | DIP TESTS | DEPTH Proposed: Ultimate:

D.D.H. No. 75-A87 PAGE 9 of 11

CLAIM No.

N — DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
			1.2	1782	1062	1063.2	1.2	.38	.12	.41					
1062	1107.7	MASSIVE SULPHIDE WITH BARITES													
328.70	337.63	Same as above sulphide unit.	9.1	1783		1072.6	9.4	4.28	5.28	2.09					
		1062-1063.2' -- 85% pyrite, 1% lead-zinc													
		-1068.1' -- 55% pyrite, 8% lead-iznc													
		-1068.8' -- quartz-fuschite, barren													
		-1070.4' -- 70% pyrite, 10% lead-zinc, F2 80°.													
		-1072.6' -- 80% pyrite, 6% lead-zinc													
		-1074.6' -- 80% pyrite, 2% lead-zinc	1.9	1786		1074.6	2.0	.73	.28	.62					
		-1078.9' -- banded quartz-graphite. F2 50°. 2-3% pyrite, trace of lead-zinc.	4.1/ 4.3			1078.9									
		-1084.5' -- 65% pyrite, 9% lead-zinc													
		-1089' -- 55% pyrite, 10% lead-zinc. F2 60°.	5.6	1787		1084.5	5.6	5.71	6.48	2.50			31.98	36.29	14.00
		-1099' -- 45% pyrite, 12% lead-zinc													
		-1105.5' -- 40% pyrite, 14% lead-zinc. F2 75°.	4.4	1788		1089	4.5	4.58	7.68	2.12			20.61	34.56	9.54
		With Quartz + graphite gradational above and below. F2 80°.	9.7	1789		1099	10.0	4.73	8.48	2.50			47.30	84.80	25.00
		-1107.7' -- 25% pyrite, 2-4% lead-zinc	6.3	1790		1105.5	6.5	4.65	10.07	2.79			30.23	65.46	18.135
			2.2	1793		1107.7	2.2	.75	1.42	.41					
	1154.0			WT. Av	1078.9	1105.5	26.6	4.89	8.31	2.51	(85.9)		130.111	221.103	66.685
1107.7	~~1282~~	QUARTZ - SERICITE - CHLORITE ± GRAPHITE PHYLLITE Medium gray													
		Mixed sequence of alternating rocks showing some alteration with sulphide zones and minor massive sulphides. Foliation - F2													
		generally well developed and planer but with open folds in chloritic zones. Rock moderately fissile except in graphitic													
	337.63-341.0FM	zones where very fissile and incompetent.													
		1107.1-1119' -- quartz-sericite phyllite, medium gray. F2 70-80 . Trace of pyrite, lead-zinc and copper.	33.6/ 34.1		1107.1	1141.2									
		-1124' -- quartz-chlorite-sericite phyllite, greenish													
		-1136.5' -- quartz-sericite phyllite. F2 70°.													
		-1141.2' -- quartz-fuschite rock slightly bleached													

DIAMOND DRILL RECORD

LOGGED BY M. deQuadros

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
		-1149' -- quartz-barites-sulphide. F2 45°. 20% pyrite, 5-6% lead-zinc, 2% copper.	7.6	1791	1141.2 (349.84m)	1149 (350.215)	7.8	1.10	1.88	.88					
		-1151.6' -- bleached quartz-sericite phyllite. F2 45°.	2.5/2.6			1151.6									
		-1154.0' -- massive sulphide, 80% pyrite, 6% lead-zinc, minor barites. F2 45°.	2.4	1792	1151.6 (351.01)	1154 (351.74)	2.4	3.68	3.18	1.56					
		(1154.0-1217') -- quartz-sericite phyllite, medium gray with contorted F2 ranging from 30° to 90° to C.A.	6.0/6.3		1154	1217									
		F1 seen with fold axis parallel to F2. Fissile Minor graphitic bands 1-3' long.													
		1192-1195' -- pyrite and pyrrhotite													
		1198-1199' -- pyrrhotite and pyrite													
		Vertical fractures 1176-1177', 1178-1179' and 1200.5-1201.4'; healed with clayey infilling. Competent.													
1217.0 (370.94)	1233.6 (376.00)	1217 -1233' -- same as above but with minor disseminated pyrrhotite, lead-zinc, copper.	15.5/16		1217	1233									
		1231.4-1232 -- shear with gouge													
		-1233.6' -- massive pyrrhotite + (lead-zinc + copper) minor													
1233.6	1282.0	1233.6-1247' -- altered dark gray + bleached quartz-sericite phyllite.													
		-1282' -- bleached massive quartz-sericite phyllite with minor chlorite.	46.5/49		1233	1282									
1282.0	1398.0	QUARTZ - SERICITE PHYLLITE Bleached pale gray													
		Massive thinly bedded, bleached rock. F2 well developed but no visible F1. F2 consistent 60-70° to C.A. Slightly mineralized.													
		1282-1293.9' -- quartz-sericite phyllite, 0-3% pyrite (av. 0.5%)	11.4/11.9		1282	1293.9									
		-1297.8' -- as above with purple lead-zinc bande (20%) averaging 4% pyrite, 14% lead-zinc and 2% pyrrhotite.	3.8	/1794	1293.9 (394.38)	1297.8 (395.57)	3.9	6.02	8.71	1.38					

DIAMOND DRILL RECORD

LOGGED BY M. deQuadros

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

D.D.H. No. 75-A87 PAGE 11 of 11

CLAIM No.

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Sample Footage From	Sample Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
		1297.8 -1330' -- bleached quartz-sericite phyllite as above. With irregular bands and threads of pyrite, pyrrhotite (average 3% pyrite 1% pyrrhotite) Also scattered copper, lead-zinc from 1298-1308' Spot of zinc @ 1310.5' and lead @ 1325'.	31.1/33	(395.65m - 398.68m)	1297	1330									
		1328-1330' -- sheared with fuschite													
		1330-(1330')? -- very sheared and broken													
		-1345.1' -- as above with pyrrhotite and pyrite in bands and streaks and disseminations. 405.38m - 409.99m	66.2/69		1330	1399									
		F2 80°. Trace of lead-zinc.													
		-1346.6' -- quartz-sericite sulphide rock with bands of pyrite and pyrrhotite													
		-1348.9' -- with fuschite													
		-1358.3' -- quartz-sericite-chlorite phyllite - altered, slightly silicified. F2 45°. Greenish.													
		-1399' -- quartz-sericite phyllite. Massive, bleached, light gray. F2 60-80°. Pyrrhotite and pyrite in blebs and streaks.													
		1368-1374' -- with talc; striped.													
	1399	END OF HOLE													
		REMARKS: 1.BW casing to 34'.													
		2.Lost return @ 589'. Regained 50% return @ 595'.													
		3.Cemented with 31 bags. Cement poured down the hole.													
		4.No drilling on 24-26th inclusive -- crew worked on D.D.H. A-85.													

DIAMOND DRILL RECORD

LOGGED BY J. Paxton

PROPERTY VANGORDA, GRUM JOINT VENTURE

D.D.H. No. 75-A88 PAGE 1 of 13

LATITUDE 35,523.35W (HW Coords (ft.)) 5 + 90N (Line Grid) BEARING OF HOLE TROPARI

DEPARTURE 25,097.65E 74 + 02W DIP OF HOLE

ELEVATION 4310.9 (Old elev. 4268.9) DIP TESTS METRIC: 10,827.58 m N, 7,649.82 m W, 1313.97 met. ELEV.

DEPTH	AZIM.	DIP
200'	121° 20'	89°
400'	118° 20'	86°
600'	122° 20'	87° 30'
840'	115° 20'	83°
1040'	111° 20'	79°

STARTED June 25, 1975

COMPLETED July 3, 1975

Proposed:

DEPTH Ultimate: 1108' (340.7 metres)

N

CLAIM No.

DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Sample Footage From	Sample Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
0	46 ft.	OVERBURDEN - TRICONED Attempted to core 46-48' with no result. Triconed 48-70', then BQ coring.													
48	121	GRAY, SERICITE - QUARTZ PHYLLITE Small F1 folds common. Strong L2. Strong F3 @ 70°. Scattered white carbonate bands.													
121	129	PALE GRAY-GREEN, CHLORITE - CARBONATE PHYLLITE Open F2 fold crests. Weak F2 at 80°.													
129	266	DARK GRAY-GREEN, CHLORITE - CARBONATE PHYLLITE Numerous calcite F1 laminae in complex folds cut by numerous strong F2 planes at 70°. 144-145' -- fault gouge 158' -- tube mislatch 8.5' core ground. 188-190' -- quartz vein 250-251' --- quartz vein 260-261' -- quartz vein													
266	268	GRAPHITE PHYLLITE Sharp contacts at 85°.	2/2												

DIAMOND DRILL RECORD

LOGGED BY J. Paxton

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
268	278	PALE GRAY-GREEN, CHLORITE - CARBONATE PHYLLITE													
		Similar to section 121-129'.	8.5/10												
278	284	GRAPHITE PHYLLITE													
		Blocky and broken. 2.5' core ground.	3.5/6.0												
284	290	PALE GRAY-GREEN, CHLORITE - CARBONATE PHYLLITE													
		286-287' -- fault gouge. Walls @ 85°.													
290	340	DARK GRAY, SERICITE - CARBONATE PHYLLITE													
		290-300' -- F1 at high angle to F2. F2 = 80°.													
		323-324' -- white quartz. 327' - 10 cm gouge.													
		338- ' -- fold crest. F3?													
340	353	PALE GRAY-GREEN, CHLORITE - CARBONATE PHYLLITE													
		F1 banding? = 85°. Several 2-10 cm quartz veins.													

DIAMOND DRILL RECORD

LOGGED BY J. Paxton

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

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CLAIM No.

DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Estimates Pyrite	Estimates Lead-zinc	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
353	381	DARK GRAY, SERICITE PHYLLITE															
		Low carbonate															
		F2 = 75° @ 355'															
		370-375' -- breccia plus irregular masses of white quartz.															
381	382	FAULT ZONE															
		Graphite mud. Walls are sharp at 45°.															
382	389	MASSIVE PYRITE															
		With interbands of graphitic material at 70°.					387.5	392.0	4.5						9.00	17.55	2.925
389	390	FAULT GOUGE	40%	25%	5.0	2058	382 (116.4m)	387.5 118.1m	5.5	5.70	9.55	2.32			31.35	52.525	12.76
		Stained green with mariposite.	10%	5%	5.0	2059	387.5	394.0	6.5	2.00	3.90	.65			13.00	25.352	4.225
			5%	4%	7.0	2060	394.0	401	7.0	1.50	2.46	.53			10.50	17.22	3.71
			3%	4%	10.0	2061	401	411	10.0	1.58	2.40	.47			15.80	24.0	4.70
390	390.5	MASSIVE PYRITE	1%	3%	6.0	2062	411	417	6.0	1.04	3.84	.62			6.24	23.04	3.78
			10%	5%	5.5 /2.5	2063	417	422.5 425.0	5.5	1.23	2.46	.59			6.765	13.53	3.245
			40%	20%	1.3	2064	425.0	426.3	1.3	1.65	3.09	.74					
390.5	410.0	SILICIFIED FOLD NOSES QUARTZ - SULPHIDES															
		80% siliceous F1 bands, 20% pyrite, lead-zinc sulphides.				WT. AV.	382.0	394.0 120.1m	12.0	3.70	6.49	1.42	(48.5 gm/mt)		44.35	77.875	16.485
						WT. AV.	394.0	422.5 128.8m	28.5	1.38	2.73	0.54	(18.6)		39.305	77.79	15.435
						WT. AV.	382.0	392.0	10.0	4.04	7.01	1.57	(53.8)		40.35	70.075	15.685

DIAMOND DRILL RECORD

LOGGED BY J. Paxton

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

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CLAIM No.

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Sample Footage From	Sample Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
410.0	411.0	FAULT GOUGE Stained green with mariposite. Walls @ 70° and 45°.													
411.0	417	MINGLED, BUFF, BLEACHED, SERICITE AND SILICEOUS SPHALERITE MATERIAL													
417	422.5	DARK GRAY, SILICEOUS MATERIAL QUARTZ-SER Banded with pyrite. 5-20 mm plus minor lead-zinc.													
422.5	440	BLEACHED, SERICITE ZONE Highly siliceous 422.5-423.5' -- white quartz 423.5-424.0' -- soft. Mottled with mariposite. 425.0-426.3' -- massive pyrite, lead-zinc mineralization													
440	444	MASSIVE PYRITE First contact sharp @ 70°.													
444	448.5	SUPH-BRECCIA ZONE in a massive py. grdmass Consists of 5-10 cm masses of lead-zinc-silica, Pyrite spongy toward second contact.													

DIAMOND DRILL RECORD

LOGGED BY J. Paxton

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Pyrite	Lead-zinc
448.5	453.0	Phy- BRECCIA ZONE Consists of silicified phyllite fragments 5-10 mm in a groundmass of buff sericite and pyrite with massive pyrite at the end of the section.		
453.0	516.5	GRAPHITIC PHYLLITE Interbanded with 2-15 cm bands of massive pyrite containing small amounts of lead-zinc and quartz.	Estimates	
		475 -- open fold crests 485 -- banding at 60°	90%	1%
		490 -- banding at 80° 500 -- banding at 75°	70%	7%
		510 -- banding at 70°	20%	2%
		The massive pyrite bands follow the F2 planes. F1 only slightly mineralized with sulphides.	15%	15%
			10%	20%
516.5	518.0	BLEACHED GRAY-BUFF SERICITE PHYLLITE	15%	7%
			15%	5%
518.0	529.0	GRAPHITIC PHYLLITE	20%	5%
		Blebs of pyrite and minor lead-zinc toward end of section.	25%	10%
			15%	6%
			15%	12%

Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
4.2	2065	439.5 (133.8m)	444.0 (135.3m)	4.5	.98	2.34	.76		3.32			
2.0	2066	444.0	446.0 (135.9m)	2.0	4.05	7.44	2.50		11.49	8.10	14.88	5.00
7.0	2067	446.0	453.5 (138.2m)	7.5	1.18	1.48	0.77		2.66	8.85	11.10	5.775
8.0	2068	453.5	462.0	8.5	6.19	12.44	2.74			52.62	105.74	23.29
8.0	2069	462.0	470.0	8.0	5.03	9.84	2.35			40.24	78.72	18.80
10.0	2070	470.0	480.0	10.0	2.70	6.00	1.21			27.0	60.0	12.10
5.0	2071	480.0	485.0	5.0	2.28	5.40	1.12			11.40	27.0	5.60
9.0	2072	485.0	494.0	9.0	1.33	3.12	.83			11.97	28.08	7.47
9.0	2073	494.0	503.0	9.0	2.06	4.14	1.27			18.54	37.26	11.43
10.0	2074	503.0	513.0	10.0	2.05	4.56	1.30			20.50	45.60	13.00
3.5	2075	513.0	516.5	3.5	2.08	4.56	1.27			7.28	15.96	4.445

DIAMOND DRILL RECORD

LOGGED BY J. Paxton

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Estimates Pyrite	Estimates Lead-zinc	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
529.0	532.0	BLEACHED BUFF SERICITE PHYLLITE															
		3.0/3.0 recovery feet															
		Open fold nose	1%	1%	1.0	2076	516.5	517.5	1.0	.33	.83	.12			.33	.83	.12
			0	0	8.0	N.A.	517.5	525.5	8.0								
			1%	.5%	2.5	N.A.	525.5	528.0	2.5	0.5	Pb/Zn,	Est.					
			5%	10%	1.0	2077	528.0	529.0	1.0	3.00	6.67	1.38					
						Wt. Av.	453.5	485.0	31.5	4.17	8.62	1.9	(65.1)	X	131.255	271.46	59.79
532.0	546	GRAPHITIC PHYLLITE															
		Occasional 5-10 mm bands of lead-zinc mineralization. F2 = 80-90 . Soft and fissile.			12/14	Wt. Av.	453.5	470.0	16.5	5.63	11.18	2.55	(87.5)		92.855	184.46	42.09
						Wt. Av.	470.0	485.0	15.0	2.56	5.80	1.18	(40.5)		38.40	87.00	17.70
						Wt. Av	494.0	516.5	22.5	2.06	4.39	1.28	(44)		46.32	98.82	28.875
546	559.5	INTERBANDED PYRITE AND SILICIFIED PHYLLITE Quartz - Sericite															
		(5-20 mm) parallel to F2 at 70°, mineralized with lead-zinc.															
			Estimates Pyrite	Estimates Lead-zinc													
559.5	580.0	BLEACHED BUFF SERICITE PHYLLITE	6%	6%	2.4	2078	545.3	548	2.7	2.78	5.26	1.18			7.51	14.20	
		554-555' and 567-567.5' -- white quartz															
		561-562' and 571.5-573.5' -- fault gouge	15%	8%	8.0	2079	548	556	8.0	2.00	4.74	1.15			16.0	37.92	
			15%	10%	3.5	2080	556	559.5	3.5	2.74	4.20	1.32			9.59	14.70	
580.0	586.0	BRECCIA OF WHITE DOLOMITE AND QUARTZ	---	---	16.0/20.5		559.5	580									
		In fine-grained sulphide groundmass	10%	18%	5.0	2081	580	586	6.0	4.28	4.14	2.12					
						WT. AV.	545.3	559.5	14.2	2.33	4.71	1.2	(41.1)		33.096	66.822	17.006

DIAMOND DRILL RECORD

LOGGED BY J. Paxton

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Sample Footage From	Sample Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
586.0	603	DARK GRAY SERICITE PHYLLITE													
		F2 = 70 .	15/17												
		598-603' -- fault gouge													
603	613.5	BLEACHED BUFF SERICITE PHYLLITE													
613.5	649.0	FAULT ZONE													
		50% of recovered core consists of gouge. Contacts sharp @ 55°.	22/35.5												
649.0	660	BANDED SULPHIDE AND SILICIFED PHYLLITE													
		Banding @ 60°.	7.0/11.0												
		Estimates Pyrite 15% Lead-zinc 15%	3.8	2082	649	653	4.0	5.03	10.50	2.82			20.12	42.00	11.28
		15% 12%	0.7	2083	653	657	4.0	5.33	11.65	2.87			21.32	46.6	11.48
		--- ---	0		657	659	Lost								
		10% 10%	0.7	2084	659	660	1.0	1.85	2.58	.88					
660	672	GRAY SERICITE-PHYLLITE	5.0/9.5		660	669.5									
		Very fissile 671.2-672.0 -- gouge	1.0/2.5	2090	669.5	672.0	2.5	4.28	6.55	1.68			10.70	16.375	4.20

DIAMOND DRILL RECORD

LOGGED BY J. Paxton

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Estimates Pyrite	Estimates Lead-zinc	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
672	693	BRECCIA OF SILICEOUS MATERIAL IN MASSIVE SULPHIDE															
		Also faintly banded at 80°.															
		685-691.3' -- fault zone															
		691.3-693.0' -- breccia of sulphide fragments in a gray muddy groundmass.	30%	15%	2.5	2085	672.0	675.0	3.0	5.68	8.77	2.35			17.04	26.31	7.05
			30%	16%	7.5	2086	675.0	682.5	7.5	7.87	10.83	3.03			58.35	81.23	22.725
			30%	5%	2.0	2087	682.5	685.0	2.5	5.03	5.40	1.68			12.58	13.50	4.20
			---	---	1.2	gouge	685.0	687.0									
			45%	10%	1.5	2088	687.0	689.0	2.0	5.64	6.24	1.97					
			---	---	1.5	gouge	689.0	691.3									
			25%	20%		2089	691.3	693.0	1.7	3.08	3.35	1.18	90.9				
693	703.2	MIXED ZONE				W.Av.	649.0	659.0	10.0	4.76	10.28	2.65	(60.8)		47.62	102.82	26.52
						W.Av.	669.5	685.0	15.5	6.41	8.87	2.46	(84.4)		99.34	137.41	38.175
		693-693.5' -- quartz	Estimates														
		693.5-694.5' -- gray phyllite	Pyrite	Lead-zinc													
		694.5-695.0' -- quartz															
		695.0-696.0' -- massive sulphide	15%	4%	3.0	2091	693	696	3.0	.95	.86	.32					
		696.0-697.0' -- bleached sericite															
		697.0-703.2' -- interbanded massive sulphides and bleached sulphides	20%	6%	6.0	2092	696	703.2	7.2	1.78	1.44	.74					
			80%	15%	4.8	2093	703.2	708.0	4.8	7.51	13.31	4.65			36.05	63.89	22.32
			75%	15%	4.0	2094	708.0	715.0	7.0	8.30	14.13	3.68			58.10	98.91	25.76
			75%	14%	7.0	2095	715.0	722.6	7.6	4.28	6.00	1.85			32.528	45.60	14.06
			70%	11%	4.9	2096	722.6	727.5	4.9	3.45	4.74	1.59			16.905	23.226	7.791

DIAMOND DRILL RECORD

LOGGED BY J. Paxton

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
		15% 4%	3.5	2097	727.5	731.0	3.5	1.25	1.86	.44					
		4% 2%	4.0	2211	731.0	735	4.0	.56	.72	.32					
				W. Av.	703.2	715.0	11.8	7.98	13.8	4.07	(139.7)		94.148	162.798	48.08
703.2	727.0	MASSIVE SULPHIDE ZONE	OR	W. Av.	703.2	727.5	24.3	5.91	9.53	2.88	(98.1)		143.581	231.624	69.931
		Finely porous. Very fine sphalerite and barite around pyrite grains.		Wt. Av.	703.2	722.6	19.4	6.53	10.74	3.20	(109.9)		126.68	208.4	62.14
		712-714' -- pyrite gouge 715-716' -- irregular mass of white carbonate													
727.0	731.0	SILICEOUS ZONE													
		Ragged bands and augen (3 mm) 60% mingled with pyrite and chlorite. F2 good at 80°.													
731.0	737.0	BLEACHED QUARTZ - SERICITE PHYLLITE													
		735-736.5' -- white quartz. Traces of lead-zinc	6.0/ 6.0												
737.0	738.5	GRAPHITIC PHYLLITE	1.5/ 1.5												
738.5	753	BLEACHED QUARTZ - SERICITE PHYLLITE													
		741-742' -- minor streaks of sphalerite 742-743' -- mariposite	13/ 14.5												
		752-753' -- fault gouge. Walls at 60°. F2 = 70-80°. 749' -- fold crest.													

DIAMOND DRILL RECORD

LOGGED BY J. Paxton

PROPERTY

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LATITUDE BEARING OF HOLE STARTED CLAIM No.

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Sample Footage From	Sample Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
753	790	GRAY SERICITE PHYLLITE													
		Scattered small quartz veins	36/37												
		777.5-779' -- quartz													
		F2 = 80-90°.													
790	803	BUFF BLEACHED QUARTZ - SERICITE PHYLLITE	13/13												
803	820	GRAY SERICITE PHYLLITE													
		F2 = 90° @ 815'.	15/17												
820	852	BUFF BLEACHED QUARTZ - SERICITE PHYLLITE													
		826-827' -- fault zone. Walls @ 45°.	6/32												
852	870	DARK GRAY SERICITE PHYLLITE													
		Fissile. F2 = 80° to 90°.													
		855-856 -- quartz													
		869' -- 8 cm plastic gray gouge													

DIAMOND DRILL RECORD

LOGGED BY J. Paxton

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION			Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
870	890	BLEACHED SERICITE PHYLLITE															
		870-871 -- white quartz															
		873-882 -- blocky muddy core. Fault?															
		886-886.5- dark gray phyllite															
		888-889 -- mariposite															
890	914	BANDED SILICIFIED GRAPHITIC PHYLLITE															
		Progressively more sulphide toward end of section. Scattered blebs of chalcopyrite.															
		F2 = 80-90°.															
		905.5-908.6' -- massive sulphide	70%	15%	3.1	2098	905.5	908.6	3.1	3.75	6.76	1.50					
		909.0-909.2' -- gouge	10%	2%	5.0	2099	908.6	914.0	5.4	0.01	0.06	0.03					
914	939	BLEACHED SERICITE PHYLLITE															
		Includes short sections of gray phyllite. Gouge @ 922', 928', 937' and 939' (walls @ 45°)															
939	950	SULPHIDE ZONE															
		939-941' -- bleached phyllite with several small bands of massive pyrite.	10%	2%	2.0	2100	939	941	2.0	0.28	0.46	0.09					
		941' -- interbanded sulphides and medium grained siliceous material			9.0	1832	941	950	9.0	2.28	2.79	.74					
		Strong F2 @ 85°. Several open F3 fold crests. Occasional bands of magnetite. (5%)															
950	954	BLEACHED SERICITE PHYLLITE															

DIAMOND DRILL RECORD

LOGGED BY J. Paxton

PROPERTY

LATITUDE BEARING OF HOLE STARTED

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Estimates Pyrite	Estimates Lead-zinc	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
954	970	DARK GRAY PHYLLITE															
		F2 and another (F3?) foliation intersect at 5-10° giving fracture faces a rough surface. Gouge at 965' and 966'.															
970	998	GRAPHITIC PHYLLITE															
		Gouge @ 981-982'. Breccia cemented with sulphides at 984-988'.	5%	Tr	11.0	N.A.	970	981	11.0								
			10%	1%	2.0	1833	981	984	3.0	.74	1.54	.29					
			12%	8%	0.8	1834	984	988	4.0	3.83	5.59	1.44			13.32	22.36	5.76
998	1029	MASSIVE SULPHIDES	5%	Tr	1.5	1835	988	992	4.0	.25	.40	.12			1.00	1.60	0.48
		Local vugs filled with quartz and calcite.	5%	10%	1.5	1836	992	994	2.0	2.78	4.80	1.29			5.56	9.60	2.58
		1020-1029' -- brecciated -- massive sulphide fragments m a siliceous groundmass.	10%	10%	1.5	1837	994	998	4.0	5.18	7.42	2.21			20.72	29.68	8.84
			75%	8%	3.2	1838	998	1001.2	3.2	.88	.91	.44					
			75%	3%	1.3	1839	1001.2	1002.5	1.3	2.48	3.24	1.06			3.224	4.212	1.378
1029	1033	FAULT ZONE	70%	11%	1.5	1840	1002.5	1005.0	2.5	1.65	2.63	.88			4.125	6.575	2.20
		Bleached sericite schist and gouge	65%	1%	1.5	1841	1005.0	1010.0	5.0	.60	.24	.29					
			65%	1%	4.0	1842	1010.0	1014.5	4.5	1.50	.54	.47			6.75	2.43	2.115
1033	1057	BRECCIA ZONE	45%	6%	3.5	1843	1014.5	1018.0	3.5	4.88	3.00	1.44			17.08	10.50	5.04
		Bands and irregular masses of pyrite in crushed quartz bleached sericite material.	60%	8%	0.7	1844	1018.0	1020.0	2.0	.28	.40	.26					

DIAMOND DRILL RECORD

LOGGED BY J. Paxton

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
		60% 1%	6.0	1845	1020.0	1029.0	9.0	1.14	.94	.59					
		15% 1%	9.0	1846	1033.0	1042.0	9.0	.13	.12	.12					
		15% 1%	5.5	1847	1042.0	1047	5.0	.09	.20	.09					
1057	1062	DARK GRAY SERICITE PHYLLITE													
		F2 = 70°. Very fissile.		W. Av.	992.0	998.0	6.0	4.38	6.55	1.90	(65.3)		26.28	39.28	11.42
				" "	984.0	998.0	14.0	2.90	4.52	1.26	(43.2)		40.60	63.24	17.66
				W. Av.	1001.2	1005.0	3.8	1.93	2.84	0.94	(32.3)		7.349	10.787	3.578
				" "	1010.0	1018.0	8.0	2.98	1.62	0.89	(30.7)		23.83	12.93	7.155
1062	1108	BUFF BLEACHED SERICITE PHYLLITE													
		Scattered bands of sulphides 5-20 mm													
		1080.5-1080.7' -- granite? F2 = 80-90°.													
		Scattered chalcopyrite noted.													
		8% 2%	6.0	1848	1074	1080	6.0	.13	.37	.12					
	1108	END OF HOLE													

REMARKS: 1. Stopped as adjacent hole A-56 barren

2. Core generally broken and fractured.

3. Cemented through rock -- 22 bags.

DIAMOND DRILL RECORD

LOGGED BY M de Quadros

PROPERTY VANGORDA, GRUM JOINT VENTURE

D.D.H. No. 75-A89 PAGE 1 of 15

	HIW	OLD			
LATITUDE	35 228.4SN	8 + 00N	BEARING OF HOLE (depth / bearing / dip)	0 / 90°	STARTED July 3, 1975
				100' / 62° 50' / 89°	
DEPARTURE	24 659.86E	82 + 10W	DIP OF HOLE	360' / 98° 50' / 86°	COMPLETED July 15, 1975
				620' / 213° 50' / 85°	Proposed:
ELEVATION	4314.96	4273'	DIP TESTS		DEPTH Ultimate: 1240'

CLAIM No.

DIRECTION AND DISTANCE FROM NE. CLAIM POST

0-16 -- BW
16-1240 -- BQ

~~FOOTAGE~~ metres FROM	TO	DESCRIPTION	Rec. Ft.	Sample No.	~~Footage~~ metres From	To	Sample Length	Assay Pb	Zn	Ag	Au	Cu	Assay x Feet Pb	Zn	Ag
0	4.88	CASING -- TRICONED -- OVERBURDEN 0-0.61													
	16.0'														
4.88	27.43	CALCAREOUS SHALE (BANDED) Light gray													
	90.0'	Fissile, heavily broken; well developed. F2 imparts good cleavage. F1 is visible as very contorted folds. Chlorite imparts	0.3/ 1.83		4.88	6.71									
		the F2 foliation. Minor quartz lenses. Dissem. pyrite. Pyrrhotite not seen. Minor graphite.	0.45/ 1.52			8.23									
		F2 @ 4.90 - 85°.	1.1/ 2.13			10.36									
		6.71-8.28 -- white quartz													
		F2 @ 8.40 85°	0.9/ 1.83			12.19									
		10.40 80°													
		14.03 78°	1.3/ 1.83			14.02									
		17.07 80°													
		20.10 75°	1.21/ 1.52			15.54									
		20.60 70°													
		21.95 65°	1.1/ 1.53			17.07									
		23.20 60°													
		25.70 65°	2.5/ 3.5			20.12									
		27.38-27.43 -- gouge													
			1.15/ 1.83			21.95									
			0.75/ 1.24			23.19									
			0.7/ 1.72			25.91									
			0.35/ 1.52			27.43									
27.43	30.18	QUARTZ - GRAPHITE PHYLLITE Dark gray.													
	99.0'	Very fissile, totally incompetent banded rock displaying both F1 and F2. Heavy core loss; no apparent mineralization.	0.71/		27.43	30.18									

DIAMOND DRILL RECORD

LOGGED BY M. de Quadros

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	metres From	metres To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
30.18	36.73	QUARTZ - GRAPHITE PHYLLITE Dark gray													
	120.5'	Appears as above, but heavy core loss due to heavy shear and minor gouge.	1.10/ 6.55		30.18	36.73									
36.73	77.53	CALCAREOUS SHALE (BANDED) Light gray													
	254.3'	Competent foliated rock, well banded with white bands of quartz and calcite. Gradational from above, graphitic to 37.45 m. Few small zones chloritic. Displays tension fractures and small slips especially in very calcareous layers. F2 folds seen, tightly recumbent resulting in little variation of F2. (65-70°) F1 tightly folded. Pyritic throughout, especially near white quartz. Pyrrhotite occurs disseminated in small blebs. Unit consists of alternating chlorite, sericite and graphite members 0.9-1.1 m thick. In general, chlorite members are hard, comptent rock. Graphite members thinly foliated and fissile; sericitic members highly folded and very fissile. Parting surfaces talcy. F2 attitudes: 42.06 -- 85°; 42.98 -- 80° 44.81 -- 80°; 45.80 -- 90° 46.50 -- 75°; 47.85 -- 85° 49.40 -- 60°; 50.50 -- 60° 52.12 -- 62°; 52.70 to 55.20 variable, 0-90° due to several F2 folds; 55.70 -- 62°; 56.70 -- 70° 58.40 to 64.40-- 80-90° 64.70 -- 65°; 77.53 -- 75-85°.	3.61/ 3.81		36.73	40.54									
			20.70/ 21.09			61.45									

DIAMOND DRILL RECORD

LOGGED BY M. de Quadros

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	metres From	metres To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
77.53	81.70	QUARTZ - SERICITE PHYLLITE Medium gray													
	268.0'	Broken, slightly graphitic core with regular F2 foliation - 75-80°													
		F1 folds visible; pyrrhotite and pyrite occur in blebs and streaks													
		parallel to F2.													
81.70	81.81	QUARTZ SULPHIDE ROCK													
	268.0'	Pyrite -- 6%	0.1/		81.70	81.71									
		Lead-zinc -- 10%	0.1												
		Cut off by the fault ?													
81.71	83.12	FAULT GOUGE													
	272.6'	Very broken, clay-like.	0.30/		81.81	83.12									
			1.41												
83.12	83.32	BLEACHED QUARTZ - CALCITE - SERICITE PHYLLITE Light gray	0.20/		83.12	83.32									
	273.3'		0.20												
83.32	84.14	QUARTZ - SERICITE - GRAPHITE PHYLLITE Dark gray													
	276.0'	Black, graphitic, very sheared. Core Angle 0-20°.	0.85/		83.32	84.43									
			1.11												

DIAMOND DRILL RECORD

LOGGED BY M. de Quadros

PROPERTY

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
84.14	87.50	QUARTZ - SERICITE - GRAPHITE PHYLLITE Medium gray													
	281.0'	Very fissile, broken into thin discs. F2 approx. 80-90 .	0.5/ 0.61		84.43	85.04									
			0.31/ 1.52			86.56									
			0.82/ 0.88			87.48									
			1.73/ 1.83			89.31									
87.50	94.92	QUARTZ - SERICITE - CALCITE PHYLLITE Light gray													
	311.3'	Banded competent rock with both F1 and F2 visible. F2 75 .	0.61/ 0.61			91.14									
		87.50-90.93 -- more competent -94.92 -- more fissile, less calcareous	2.25/ 2.43			93.57									
			1.15/ 1.35			94.92									
94.92	102.02	QUARTZ - SERICITE - SULPHIDE PHYLLITE Light gray													
	334.6'	Banded, compact rock with well developed F2 (with parallel partings) Sulphides controlled by F2. F2 consistently 70-80°.	0.4	1797	94.92	95.40	0.48	.83	2.46	.29	✓				
	→	94.42-98.14 -- partly bleached with minor graphite 94.92 -102.02 -- bleached	0.41	1798		96.32	0.92	2.18	5.80	1.03			2.01	5.34	.95
		94.92- 95.40 -- 5% pyrite, 1-2% lead-zinc - 96.32 -- 8% pyrite, 4-5% lead-zinc	0.30	1799		96.62	0.30	3.08	4.14	1.27			.92	1.24	.38
		- 96.62 -- 8% pyrite, 1.5% lead-zinc - 97.84 -- 7% pyrite, 4% lead-zinc	1.05	1800		97.84	1.22	2.43	4.32	1.12			2.96	5.27	1.37
		- 99.15 -- 6% pyrite, 3% lead-zinc -100.63 -- 6% pyrite, 2% lead-zinc	1.29	2501		99.15	1.31	2.67	3.24	1.18			3.50	4.24	1.55
		-102.02 -- 5% pyrite, 1% lead-zinc	1.44	2502		100.63	1.48	1.93	3.48	.94			2.86	5.15	1.39
			1.38	2503		102.02	1.39	1.65	3.06	.71			2.29	4.25	.99

DIAMOND DRILL RECORD

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PROPERTY

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					95.40	~~99.15~~ ~~97.84~~	3.75 ~~2.44~~	2.50 ~~2.41~~	4.29 ~~4.86~~	1.13 ~~1.11~~	(43.8)	✓			
					~~97.84~~	102.02	2.87 ~~4.18~~	1.79 ~~2.06~~	3.28 ~~3.26~~	0.83 ~~.94~~	(34.3) Weighted Average	✓			
102.02	105.97	SHEARED QUARTZ FUSCHITE ROCK (FAULT ZONE) Green													
	347.6'	Fine-grained fault breccia, containing fragments of above member up to 0.1 m long (103.53-104.44)	0.94/ 1.31		102.02	103.33									
		F2: 102.02-102.62 -- 45 .	0.54/			103.94									
		102.72-103.55 -- very gouge	0.61												
		104.04-105.97 -- very gougy	0.58/ 1.93			105.97									
105.97	130.58	QUARTZ - SERICITE PHYLLITE (FAULT ZONE?) Light gray													
	428.3'	Very broken blocky core with gouges. Foliation F2 tends to be erratic; core loss heavy probably a fault zone. Minor graphitic	0.82/ 3.04		105.97	108.81									
		and chloritic zones.	0.4/			109.42									
		105.97-122.53 -- broken quartz sericite phyllite with minor gougy zones. Many 2-4 cm quartz lenses. Slightly calcareous.	0.61 0.6/ 2.13			111.56									
		-123.76 -- bleached buff quartz-sericite phyllite	1.58/			113.39									
		-124.91 -- gray quartz-sericite phyllite. Greenish fuschite ? @ 124.10-123.25.	1.83 0.71/ 2.13			115.52									
		-126.79 -- dark gray graphitic phyllite. F2 erratic -- from 20-60°. Shattered appearance.	0.65/ 1.22			116.74									
		-130.58 -- gouge, both graphitic and sericitic. Largely clay-like appearance, small pebbles.	0.47/ 0.91			117.65									
			1.10/ 1.91			119.18									
			0.75/ 3.35			122.53									

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			1.31/ 1.72			126.79									
			0.46/ 0.62			127.41									
			0.2/ 0.60			128.01									
			0.55/ 1.47			130.58									
130.58	133.05	MIXED QUARTZ - FUSCHITE PHYLLITE AND													
	436.4'	QUARTZ - SERICITE PHYLLITE 130.58-130.86 -- quartz-fuschite phyllite - light green. F2 70°.	2.41/ 2.47		130.58	133.05									
		-131.31 -- quartz-sericite-sulphide phyllite. Both ends 0.05 m. Massive pyrrhotite. In between banded sulphide, 5% pyrite, 1-2% lead-zinc the whole is a fold, horizontal axis @ 130.98													
		-132.03 -- green quartz-fuschite phyllite. F2 approx. 80°. -132.47 -- quartz-sericite sulphide phyllite -- another open fold. Axis horizontal at 132.28.													
		-132.90 -- quartz-fuschite phyllite. F2 70°.													
		-133.05 -- quartz-sericite-sulphide phyllite as above. No folds seen.													
		Note: Sequence from 130.58-133.05 represents an "S" fold with repetition of same two beds in the core.													
133.05	135.94	QUARTZ - SERICITE ± GRAPHITE PHYLLITE Gray													
	445.9'	Banded with contorted F2 numerous tension fractures. Pyritic. Minor pyrrhotite.	2.75/		133.05	135.94									
		133.05-134.05 -- slightly graphitic -135.27 -- bleached buff													
		-135.94 -- sheared graphitic phyllite													

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135.94	142.96	QUARTZ - SERICITE PHYLLITE Light gray													
	468.9'	Banded, compact, well foliated rock with good F1. Pyritic, especially on partings. Minor pyrrhotite.	6.86/ 7.02		135.94	142.96									
		F2 70-75°. Tension fractures and vertical slips now cemented. Some fractures pyritised.													
		141.12-142.39 -- broken, shear? Occasional graphite 142.86-142.96 -- gouge, graphitic													
142.96	157.51	QUARTZ - SERICITE SULPHIDE ROCK Light gray													
	516.6'	Banded quartz-sericite phyllite, mineralized and in part replace by sulphides. F2 well developed and very mineralized.	0.37	2504	142.96	143.33	0.37	4.50	7.78	2.18			1.665	2.879	.807
		F1 rarely visible. Occasionally graphitic. 142.96-143.33 -- quartz sulphide: 30% pyrite, 18% lead-zinc	0.85	2505		144.27	0.94	2.35	2.70	1.50			2.209	2.538	1.410
		-144.27 -- massive sulphide: 80% pyrite, 3% lead-zinc -145.69 -- quartz-sericite sulphide: 9% pyrite, 2% lead-zinc	1.28	2506		145.69	1.43	4.20	3.18	1.47			5.96	4.516	2.087
		-148.09 -- as above, 14% pyrite, 4% lead-zinc -149.02 -- as above: 6% pyrite, 2% lead-zinc	2.21	2507		148.09	2.40	4.50	6.79	1.65			10.80	16.296	3.960
		-151.20 -- quartz-sericite-graphite: 1% pyrite, 1% lead-zinc -152.54 -- bleached quartz-sericite: 3% pyrite, 1% lead-zinc	0.92	2508		149.02	0.93	3.15	5.44	1.35			2.93	5.59	1.256
		-155.11 -- as above: 8% pyrite, 2% lead-zinc -156.86 -- as above: trace	2.10	2509		151.20	2.18	1.15	2.10	.47	✓		2.51	4.58	
		-157.51 -- as above: 4% pyrite, 4-5% lead-zinc breccia along F2 mineralized in F1	1.34	2510		152.54	1.34	.60	1.22	.26			.80	1.63	
			2.56	2511		155.11	2.57	.88	1.05	.35			2.26	2.70	
			1.75/ 1.75			156.86									
			0.65	2512		157.51	0.65	3.23	6.60	1.32	✓				
				W. Av.	142.96	145.69	2.73	3.60	3.64	1.58	(54.1)		9.838	9.933	4.304
				W. Av.	145.69	149.02	3.33	4.12	6.47	1.57	(53.8)		13.73	21.355	5.216
				W. Av.	151.20	155.11	3.91	1.9	Pb2n						

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157.51	162.21	QUARTZ - SERICITE PHYLLITE Light gray													
	332.1'	Banded, well foliated, fissile but competent with white quartz lenses. Pyritic especially in and around quartz. Fractures healed, varying from 0-45° to C.A. F2 70-75° to C.A.	4.68/ 4.70		157.51	162.21									
162.21	168.01	MIXED QUARTZ SULPHIDE AND MASSIVE SULPHIDE ROCKS													
	551.1'	162.21-162.46 -- massive sulphide with pyrrhotite. 70% pyrite, 1-2% lead-zinc													
		-163.00 -- quartz sulphide sericite phyllite: 3-4% pyrite, 1% lead-zinc	1.56	2513	162.21	163.78	1.57	3.90	7.44	1.91			6.123	11.681	2.999
		-163.78 -- massive sulphide: 70% pyrite, 4-6% lead-zinc -165.51 -- quartz sulphide: 20% pyrite, 2-3% lead-zinc	1.70	2514		165.51	1.73	.93	1.74	.44		x 1.43	1.33 1.609	2,488 3.010	0.629 0.761
		-168.01 -- quartz sulphide: 10% pyrite, 2% lead-zinc	2.50	2515		168.01	2.50	1.13	1.14	.65			2.825	2.850	1.625
				W. Av. W. Av.	162.21 163.78	165.21 168.01	3.0 4.23	2.48 1.05	4.72 1.39	1.21 0.56	(41.5) (19.3)		7.453 4.434	14.169 5.86	3.628 2.385
168.01	178.69	QUARTZ - SERICITE PHYLLITE Light gray													
	586.1'	F2 very inconsistnet indicating repeated open folding. F2 varying from 0 to 80° to C.A. F2 angles as follows:	2.55/		168.01	170.69									
		168.65 -- 75°; 179.00 -- 60°; kink fold	1.80/ 1.83			172.52									
		179.22 -- 90° , small skips 30° to C.A. 170.09 -- fold nose, axis 90° to C.A.	2.21/ 2.74			175.26									
		170.69 -- 70° 171.21 to 171.81 -- fold, nose approx. @ 171.76	1.80/ 1.83			177.09									
		171.41 -- 80° 172.32 -- 80°	1.60/ 1.60			178.69									
		172.35-172.97 -- vertical F2, two fold noses at 172.52 and 172.77.													

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		172.97-174.92 -- F2 45°													
		174.92-178.69 -- F2 60-70°													
		F1 seen especially bleow 172.97 tending to be vertical but contorted. Pyrite and pyrrhotite throughout.													
178.69	182.03	MINERALIZED QUARTZ - SERICITE PHYLLITE													
	597.1'	Essentially same as above, but mineralized parallel to F2. 178.69-180.34 -- 10-12% pyrite, 2-3% lead-zinc	1.64	2516	178.69	180.34	1.65	4.65	7.55	2.35			7.673	12.458	3.878
		-180.66 -- trace	0.32/			180.66									
		-182.03 -- 10-12% pyrite, 4-5% lead-zinc	0.32										0	0	0
			1.37	2517		182.03	1.37	3.60	5.76	1.47			4.932	7.891	2.014
				W. Au.	178.69	182.03	3.02	4.17	6.74	1.95	(66.9)		12,605	20439	5.892
182.03	192.67	QUARTZ - SERICITE PHYLLITE Light gray													
	632.0'	Same as 168.01-182.03, but no open folds. Numerous kink folds. Talcy partings.	10.55/ 10.64		182.03	192.67									
		182.03-187.33 -- F2 50°													
		187.33-187.98 -- F2 50-65°													
		187.98-192.67 -- F2 70-85° angle increasing downwards													
192.67	208.02	CALCAREOUS SHALE Greenish-gray													
	682.3'	Fine-grained with 0.2 cm white bands. Very calcareous. Minor occasional F1 show kinks but white F2 bands consistently 60-65°	15.28/ 15.35		192.67	208.02									
		to C.A. Very competent, 45° fracture @ 193.52. 192.67-193.37 -- trace of lead-zinc													
		Minor pyrite in blebs. Vertical fractures with small slips now cemented.													

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FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
208.02	217.02	MIXED QUARTZ - SERICITE AND QUARTZ - GRAPHITE PHYLLITE													
	711.8'	208.02-208.50 -- thinly laminated, very fissile, dark gray, ~~incompetent~~, carbonaceous unit. F2 well developed, 85-90°.	5.56/ 5.60		208.02	213.62									
		-208.72 -- light gray, non-fissile, competent quartz-sericite phyllite	2.05/ 3.40			217.02									
		-208.72 -- graphitic phyllite as at 208.02 to 208.50													
		208.72-210.21 -- massive compact almost unfoliated. Quartz-sericite rock. F2 90°, grades into the graphitic unit below.													
		-213.62 -- graphitic unit as at 208.02-208.50 . Very fissile, almost black, highly foliated. Shows complex folding of F1 along axial planes parallel to F2. F2 constantly 90°.													
		-217.02 -- light gray gritty quartz-sericite phyllite, rather massive, poorly bedded. Partings talcy. F2 where seen 75 to C.A. Occasional small graphitic lenses. In parts. core appears to be remains of a coarse gouge -- e.g. @ 216.22													
217.02	224.6	QUARTZ - SERICITE PHYLLITE Light gray													
	736.7'	Thinly foliated, fissile with much core loss in first part of section.													
		217.02-221.59 -- very broken, partly sheared. F2 appears variable, 0-60 but not measurable due to nature of rock.	2.61/ 3.43		217.02	221.59									
		-224.64 -- competent rock with minor vertical slips. F2 regular @ 75-80°.													
		224.44-224.64 -- fracture @ 30 to C.A. results in brecciation and total core loss of last 0.1 m.	2.89/ 3.05		221.59	224.64									
			1.70/ 1.86			226.5									

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224.6	226.5	QUARTZ - SERICITE PHYLLITE (SHEARED)													
	742.9'	As above. Sheared and broken. F2 changes to opp 45°. Grades into next unit.													
226.5	233.1	FAULT ZONE													
	764.6'	Gray gritty gouge, generally clay-like with large fragments. Originally quartz-sericite phyllite. Heavy core loss.	2.2/ 6.6	2265	233.1										
233.1	252.7	QUARTZ - SERICITE PHYLLITE (SHEARED) Light gray.													
	828.9'	As above, but very broken. F2 consistently 80-90 to C.A. Rock very fissile, resulting in thin poker chips. Minor gougy zones.	12.8/ 19.6		233.1	252.7									
252.7	272.0	QUARTZ - SERICITE PHYLLITE													
	892.2'	As above but not broken. F2 80-90 . Minor quartzitic slips 30° to vertical. Minor pyrite.	7.15/		252.7	259.9									
		Minor sulphide bands 259.9-260.7 -- 4-5% pyrite, 7-8% lead-zinc F2 75°, lower contact 60°, upper 85°.	0.8		259.9	260.7	0.8	5.03	9.50	2.12					
		269.8-272.0 -- 20% pyrite, 14% lead-zinc	9.0/ 9.1		260.7	269.8									
			1.2		269.8	272.0	1.2	5.75	9.32	2.74					
272.0	280.8	QUARTZ - GRAPHITE - SERICITE PHYLLITE													
	921.0'	Banded, dark gray, well foliated and fissile rock, very pyritic and pyrrhotitic, showing minor F2 folding. F2 overall 75-85° to member below.	8.7		272.0	280.8									

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FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
			0.75	2520	280.8	281.55	0.75	2.85	7.22	1.41			2.138	5.415	1.058
280.8	297.3	MINERALIZED QUARTZ - GRAPHITE - SERICITE PHYLLITE													
	975.1'	Partly altered and bleached, hard compact, well foliated rocks. Show F2 folded. F1 well displayer in graphitic layers.	0.35/ 0.35			281.9							0	0	0
		280.8-281.55 -- 12-15% pyrite, 7-8% lead-zinc	0.83	2521		282.75	.85	3.60	6.22	1.73			3.060	5.287	1.471
		-281.9 -- bleached buff quartz-sericite phyllite, barren													
		-282.75 -- 10% pyrite, 6% lead-zinc	0.55/ 0.55			283.3							0	0	0
		281.75 -- fold axis													
		-283.3 -- bleached buff quartz-sericite phyllite, barren	1.7	2522		285.0	1.7	2.45	6.83	1.27			4.165	11.611	2.159
		-285.0 -- 12-15% pyrite, 8-9% lead-zinc													
		-288.4 -- 6-7% pyrite, 5% lead-zinc	3.4	2523		288.4	3.4	1.93	3.24	.83			6.562	11.016	2.822
		-291.3 -- 6-7% pyrite, 5-6% lead-zinc													
		-291.8 -- 4% pyrite, 2% lead-zinc	2.9	2524		291.3	2.9	3.90	3.36	1.47			11.310	9.744	4.263
		-293.3 -- altered quartz-sericite phyllite, barren													
		Fold axis 90° to C.A. @ 292.4	0.5	2525		291.8	0.5	1.08	.90	.56	✓				
		-294.9 -- 6% pyrite, 2-3% lead-zinc													
		-296.0 -- quartz -sericite phyllite, very fissile and broke	1.5/ 1.5			293.3									
		-297.3 -- massive sulphide with quartz, 50-60% pyrite, 3% lead-zinc, trace of copper	1.6	2526		294.9	1.6	1.43	1.16	.53			2.288	1.856	0.848
		F2 generally constant at 75-85 , not much altered by the folds due to their isolinal recumbent nature. Mineralization is present both in F1 and F2. F2 changes only in massive sulphide becoming 60°, but returning to the normal 75° both up and down.	1.0/ 1.1			296.0							0	0	0
			1.3	2527		297.3	1.3	5.40	7.38	2.50			7.020	9.594	3.250
				W. Av.	280.8	291.3	10.5	2.59	4.10	1.12	(38.4)		27.235	43.073	11.773
				W. Av.	293.3	297.3	4.0	2.33	2.86	1.02	(35.1)		9.308	11.450	4.098
297.3	304.1	QUARTZ - SERICITE PHYLLITE Light gray													
	997.5'	Well foliated, competent rock with some folding. F2 variable. F2 tends to be kinky with open folds @ 298.6 (axis horizontal)	6.2/		297.3	304.1									
		Rock altered and partly bleached. F2 returns to 75 rapidly away from fold axis; minor slips. Green (malacite?) starting at 299.7													

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FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Sample Footage From	Sample Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
304.1	316.0	QUARTZ - SERICITE ± GRAPHITE PHYLLITE Gray													
	1036.5'	Essentially as above but with small graphitic layers and minor pyrite-lead-zinc section at 306.6-306.9.	10.2/		304.1	316.0									
		Numerous small white quartz lenses and few small calcareous layers 1-2 cm thick. Part bleached quartz-sericite rock. F2													
		irregular varying rapidly from 75-60° in short stretch (0.2m) Very broken, with few fractures. 45° to C.A.													
316.0	342.8	QUARTZ - SERICITE PHYLLITE Light gray													
	1124.4'	Very much as above, but no graphitic layers.	15.1/		316.0	332.0									
		316.0-316.8 -- F2 75-80°.													
		-329.2 -- F2 variable 60-70°. Minor changes in dip direction seen, indicating several folds.													
		320.6-320.9 -- shear, 45°													
		325.3- fracture, 45°													
		-332.0 -- F2 fairly steady at 70°													
		331.2 fracture, 45°													
		-342.9 -- very broken, gouge in parts, Numerous small quartz layers. F2 60° to C.A.	8.4/ 10.9		332.0	342.9									
		Cavity filling in fractures (hydrothermal activity)													
→ ? →		342.9-342.8 -- compact, unbroken, altered and partly bleached													
		quartz-sericite phyllite. F2 steady at 75°, with 30 to 45° to C.A. Mildly mineralized in bleached	10.6/		332.0	342.8									
		parts.													
		340.4-341.4 -- graphitic, banded													
342.8	369.5	MINERALIZED QUARTZ - GRAPHITIE PHYLLITE Light gray													
	1212.0'	Banded, highly contorted foliation with mineralization mainly in F1. F1 dominant, F2 when developed has good parting.													

DIAMOND DRILL RECORD

LOGGED BY M. de Quadros

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

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CLAIM No.

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
		342.8-345.3 -- F2 opp 70°													
		-347.7 -- F2 variable. Large fold; axis at 356.2; extending from 345.3-347. 45° fracture @ 347.2 with small quartz crystals.													
		342.8-344.4 -- 8-10% pyrite, 2% lead-zinc	1.6	2528	342.8	344.4	1.6	.05	.36	.03		0.41			
		-347.7 -- 8-10% pyrite, 2% lead-zinc	3.3	2529		347.7	3.3	.21	.38	.24		0.59			
		-349.8 -- 6% pyrite, 1% lead-zinc													
		-351.4 -- quartz-chlorite-fuschite	2.1	2530		349.8	2.1	.03	.03	.03		0.06			
		-352.7 -- quartz-sericite phyllite, broken and partly sheared													
		-356.7 -- quartz-sericite-sulphide rock, partly broken with cemented fractures 30-60° to C.A. With copper.	1.6/ 1.6			351.4	7.0								
		3-4% pyrite, 1% lead-zinc	1.3/ 1.3			352.7									
		-357.6 -- as above, but bleached: 3-4% pyrite, 1% lead-zinc													
		-358.0 -- quartz-fuschite with galena, F2 70°	4.0	2531		356.7	4.0	.08	.14	.09		0.22			
		358.0-359.8 -- massive sulphide, 10% quartz, 60% pyrite, 2% lead-zinc F1 seen in quartz layers, F2 approx 90°	0.9	2532		357.6	0.9	.09	.16	.03		0.25			
		-366.0 -- quartz-sericite rock, bleached, barren													
		-366.9 -- quartz sulphide, vertical slips, fracture 30°, F2 75°, 40% pyrite, 2% lead-zinc	0.4/ 0.4			358.0	0.4								
		-369.5 -- altered and partly bleached rather mixed quartz-sericite phyllite. Generally broken, gougy in parts. F2 very variable. Grades into below.	1.8	2533	358.0	359.8	1.8	2.50	3.84	1.50		✓			
			6.2/ 6.2			366.0	6.2								
			0.9	2534		366.9	0.9	5.83	4.08	1.68		✓			
			11.6/ 12.6			369.5									
369.5	378.0	MASSIVE SULPHIDE													
	1239.8'	Grading from above, massive unit, very pyrrhotitic in 6 cm layers. Unbroken, with good F2 parting, generally at 60-70°, and a		W.AV.	342.8	349.8	7.0	0.39	Pb-Zn				2.74	Pb-Zn	
		fracture 30-45° to C.A. Often recemented. Minor quartz, pose in lead-zinc. Partly leached.		"	352.7	357.6	4.9	0.23	"				1.11	"	

DIAMOND DRILL RECORD

LOGGED BY M de Quadros

PROPERTY

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LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

CLAIM No.

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
		369.5-371.1 -- mixed unit with quartz-sericite and bleached quartz-sericite rock. 30% pyrite, 2-2.5% lead-zinc	1.6	2535	369.5	371.1	1.6	3.30	3.60	1.29		6.90	5.28	5.76	2.06
		-372.5 -- massive sulphide. 60-70% pyrite, 3% lead-zinc	1.4	2536		372.5	1.4	3.42	2.82	1.03		6.24	4.788	3.948	1.44
		-374.0 -- massive sulphide. 60-70% pyrite, 1-2% lead-zinc	1.5	2537		374.0	1.5	4.43	3.42	1.18		7.85	6.645	5.130	1.770
		-377.0 -- massive sulphide. 60-70% pyrite, 3% lead-zinc	3.0	2538		377.0	3.0	2.93	1.90	1.00		4.83	8.790	5.70	3.00
		-378.0 -- massive sulphide. 60-70% pyrite, 2% lead-zinc	1.0	2539		378.0	1.0	.70	.52	.56					
				w.Av.	369.5	374.0	4.5	3.71	3.3	1.17	(40.2)		16.713	14.838	5.276
				w.Av.	369.5	377.0	7.5	3.40	2.74	1.10	(37.8)		25.503	20.538	8.276
	378.0	END OF HOLE													
	1239.8'														

REMARKS:

1. Difficult hole throughout.
2. Hole ended when drillers unable to return to bottom without wearing out bit (tried twice due to sanding 700' onwards) Rods finally broke 500' from bottom when attempting to drill further.
3. Due to inability to fish successfully, 500' rods core barrel and tube abandoned in hole.
4. Surveyed to 620'; cemented with 10 bags.

DIAMOND DRILL RECORD

LOGGED BY J. Paxton

PROPERTY VANGORDA, GRUN JOINT VENTURE

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	HIW	OLD				
LATITUDE	35 673,64 N	8N	BEARING OF HOLE	200' 59° 50' 89°	STARTED	July 4, 1975 D.S.
				400' 109° 50' 79°		
DEPARTURE	24 236.22E	74W	DIP OF HOLE	600' 91° 20' 72°	COMPLETED	July 19, 1975 D.S.
				800' 78° 50' 69°	Proposed:	
ELEVATION	4306.96'	4265'	DIP TESTS		DEPTH Ultimate:	~~1171'~~ → 1038' (~~1,037.8~~m) 316.38m

CLAIM No.

DIRECTION AND DISTANCE FROM NE. CLAIM POST

metres FOOTAGE FROM	TO	DESCRIPTION	Rec. Ft.	Sample No.	metres Footage From	To	Sample Length	Assay Pb	Zn	Ag	Au	Cu	Assay x Feet Pb	Zn	Ag
0		TRICONE													
0	29.87	BW CASING													
29.9	46.2	QUARTZ - SERICITE PHYLLITE													
		Dark gray sericite phyllite. Bleached 29.87-46.20. F2 strong @ 80°. Core blocky and broken.	15.0/ 16.3												
46.2	49.2	QUARTZ - SERICITE PHYLLITE. Bleached.													
		70% silicified material. 30% sericite, chlorite and mariposite. F2 = 50°. Traces of lead-zinc. Fault gouge @ 49.15-49.25. Walls @ 15°.	2.5/ 3.0												
49.2	51.6	SULPHIDES AND QUARTZ													
		Banded at 50° with 2-5mm interbands of sulphides. Estimate: 10% pyrite, 7% lead-zinc.	2.40	1849	49.25	51.65	2.40	2.40	5.16	1.21			5,760	12.384	2.904
51.6	53.6	QUARTZ - SERICITE PHYLLITE. Bleached										0.60%	0.078	0.648	0.036
		Massive, fine grained, buff coloured earthy kaolinitic rock. Traces of pyrite, lead-zinc.	2.0/ 2.0	1850	51.65	53.65	2.00	.13	1.08	.06			0.230	2.160	0.120

DIAMOND DRILL RECORD

LOGGED BY J. Paxton

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

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CLAIM No.

DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
53.6	56.5	SULPHIDES AND QUARTZ (similar to 49.2-51.6)													
		Numerous open, slightly recumbent folds with axis at 60° to C.A. Estimate 5% pyrite, 4% lead-zinc.	2.85	1851	53.65	56.50	2.85	1.45	3.90	.77			4.133	11.115	2.195
				W. Av.	49.25	52.25	3.0	1.95	4.34	0.98	(33.6)		5.838	13.032	2.940
56.5	57.7	QUARTZ - CHLORITE Bleached.													
		70% silica, 30% chlorite. 57.0-57.2 -- fault gouge. Walls at 80°.	1.2/ 1.2												
57.7	61.5	SULPHIDES AND QUARTZ													
		2-5 mm interbands of quartz and pyrite. Estimate 5% pyrite and 5% lead-zinc.	3.83	1852	57.67	61.50	3.83	1.88	4.44						
61.5	62.4	BLEACHED ZONE -- similar to 56.6-57.7													
		Contacts sharp at 60°. 0.9/0.9	~~9.0~~/ ~~9.0~~												
62.4	64.7	SULPHIDES AND QUARTZ Pyrite Lead-zinc													
		2-5 mm interbands at 60-80°. 5% 4%	.90	1856	62.4	63.3	0.90	2.08	5.04	34.3					
		62.78-62.98 -- massive 63.3-63.67 -- fault gouge. Bleached. -- --	.37/ .37		63.3	67.3									
		Mariposite. 4% 3%	1.03	1853	63.7	64.7	1.03	1.50	3.72	25.4			1.55	3.83	26.16

DIAMOND DRILL RECORD

LOGGED BY J. Paxton

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
64.7	66.5	QUARTZ - SERICITE PHYLLITE													
		Dark gray colour. Estimate 3% pyrite, 2% lead-zinc.	1.8	1854	64.7	66.5	1.8	1.48	3.42	24.3			2.666	6.16	43.74
					63.7	66.5	2.83	1.49	3.53	24.7			4.21	9.99	69.90
				w. Av.	49.25	66.50	17.25	1.36	3.32	23.1			23.404	57.188	11.644
66.5	70.2	BLEACHED BUFF SERICITE MATERIAL													
		67.45-67.65 -- massive pyrite-pyrrhotite vein with inclusions of siliceous material. Walls at 45°.	1.95		66.5	68.45									
		68.45-69.77 -- breccia of 1-5 cm rounded masses of siliceous and/or chloritic material in a pyrite-pyrrhotite-sphalerite ground mass. Estimate 4% pyrite, 1% lead-zinc.	0.95	1855	68.45	69.77	1.32	1.18	1.58	15.1					
			0.45		69.77	70.2									
		69.77-70.2 -- bleached and leached earthy brown sericite-kaolin-quartz material. (solid fault gouge?)		~~1856~~	~~62.4~~	~~63.3~~	~~.9~~	~~2.08~~	~~5.04~~	~~34.3~~					
70.2	79.0	GRAPHITIC - SERICITE - QUARTZ PHYLLITE													
		Occasional small F2 folds. F2 good at 80°. Scattered pyrite and sphalerite. Estimate 15% pyrite, 3% lead-zinc.	2.3	1857	70.2	72.5	2.3	.87	1.64	17.1					
		70.2-71.0 -- breccia of graphitic phyllite fragments 1-5 cm in a pyrite-pyrrhotite groundmass. Minor lead-zinc noted.			72.5	77.39									
		77.4-77.42 - massive pyrite-sphalerite vein at 90°. Trace of magnetite.													
		Pyrite Lead-zinc													
79.0	79.9	GRAYISH - SERICITE - QUARTZ PHYLLITE 15% 3%	1.06	1858	77.39	79.05	1.66	4.60	7.56	61.4		7.636	12.5496	2.9714	
		Locally brecciated and mineralized with pyrite and minor sphalerite. Occasional 10% 1%	.80	1859		79.90	.85	.70	1.82	12.0		0.595	1.547	0.2975	
		1-3 cm rounded black chert pebble inclusions. 25% 7%	2.75	1860		82.65	2.75	7.43	10.70	110.0		20.432	29.425	8.8275	

DIAMOND DRILL RECORD

LOGGED BY J. Paxton

PROPERTY

LATITUDE | BEARING OF HOLE | STARTED

DEPARTURE | DIP OF HOLE | COMPLETED

ELEVATION | DIP TESTS | DEPTH Proposed: Ultimate:

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NN — DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Pyrite	Lead-zinc	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
79.9	82.5	QUARTZ - SERICITE ?			~~/0.80~~		~~82.65~~	~~83.45~~	/	~~5.45~~	~~8.27~~	~~77.39~~	~~82.65~~		~~28.6635~~	~~29.425~~	
		BRECCIA	5%	2%	1.25	1862	83.45	84.70	1.25	1.68	5.40	.74			2.10	6.75	0.925
		Rounded fragments of phyllite and quartz in pyrite-sphalerite groundmass.	10%	4%	2.25	1863		86.95	2.25	2.18	5.04	1.12			4.905	11.34	2.520
			8%	3%	1.80	1864		88.90	1.95	3.45	6.60	1.29			6.73	12.87	2.516
82.5	83.3	SERICITE PHYLLITE	15%	1%	1.10	1865		90.0	1.10	1.88	1.88	.59			2.068	2.068	0.649
		Bleached and leached with flecks of green mariposite. Contacts @ 65°.	30%	3%	1.00	1866		91.0	1.00	2.38	2.46	1.00	2.12	2.16	2.380 .82	2.460	1.000
			15%	6%	1.00	1867		92.0	1.00	4.35	7.08	1.94			4.350	7.080	1.940
83.3	91.0	DARK GRAY SERICITE PHYLLITE	15%	7%	1.00	1868		93.0	1.00	5.11	6.13	2.24			5.11	6.13	2.24
		Interbanded with pyrite-lead-zinc mineralization in bands 1-2 cm.	20%	6%	0.95	1869		93.95	0.95	3.60	4.08	1.47			3.42	3.876	1.397
		Mineralized open F2 folds noted. 88.9-90.0 -- bleached sericite fold crest	8%	8%	0.50	1870		94.60	0.65	3.83	8.72	1.76			2.4895	5.668	1.144
		90.8-91.0 -- massive pyrite with traces of lead-zinc	8%	3%	0.25	1871		94.85	0.25	4.13	9.60	2.09	3.91	8.97	1.0325	2.400 1.84	0.523
							~~82.65~~	~~86.95~~	~~3.5~~	~~2.00~~	~~5.17~~	~~.98~~	~~Weighted Average~~		~~28.6635~~	~~43.5216~~	
							77.39	82.65	5.26	5.45	8.27	78.8			28.6635	43.5216	
							83.45	86.95	3.5	2.01	5.17				7.005	18.09	
							91.0	94.85	3.85	4.26	6.53	64.5					
						W.AV	83.45	88.90	5.45	2.52	5.68	37.5			13.733	30.960	5.961
						— " —	88.90	91.00	2.1	2.12	2.16	26.9			4.448	4.528	1.649

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DIAMOND DRILL RECORD

LOGGED BY J. Paxton

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Pyrite	Lead-zinc	Rec. Ft.	Sample No.	Sample Footage From	Sample Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
91.0	99.5	SULPHIDES AND QUARTZ															
		Banded sulphides and silicified phyllite. F1 prominent at 0-45°. F2 at 70-80°.	5%	1%	1.55	1872	94.85	96.40	1.55	.35	.40	.15					
			8%	6%	2.10	1873		98.50	2.10	3.75	5.52	1.76			7.875	11.592	3.696
			10%	4%	1.00	1874		99.50	1.00	3.23	4.14	1.30			3.23	4.14	1.30
99.5	101.9	QUARTZ - SERICITE PHYLLITE (?)	---	---	2.3/ 2.3			101.9							0	0	0
		Bleached buff vuggy kaolinzed sericite rock. May be altered	10%	3%	2.05	1875	X	104.0	2.05	3.12	5.52	1.29			6.396	11.316	2.709
		granitic dyke. Contacts sharp at 50°.	20%	6%	1.00	1876		105.0	1.00	5.88	9.51	2.48			5.88	9.51	2.48
			10%	5%	1.00	1877		106.0	1.00	4.28	8.50	1.59			4.28	8.50	1.59
101.9	108.0	SULPHIDES AND QUARTZ	10%	10%	1.00	1878		107.0	1.00	8.91	15.64	3.65			8.91	15.64	3.65
		Interbanded quartz, silicified phyllite and sulphides at 60°. Bands 1-5 cm parallel to F2.	10%	12%	1.00	1879	X	108.0	1.00	6.94	13.67	3.03			6.94	13.67	3.03
108.0	110.2	MIXED ZONE			2.0/ 2.2		104	108	4.00	6.50	11.83	2.69 (92.1)			26.01	47.32	10.75
															Weighted Average		
		108.0-108.3 -- bleached buff sericite. 108.3-108.4 -- gouge					96.4	99.5	3.1	3.58	5.07	55.3			11.105	15.732	4.996
		108.4-108.5 -- black plastic fault gouge					101.9	108	6.10	5.34	9.66	2.206 (75.69)			32.562	58.912	13.459
										15.00							

DIAMOND DRILL RECORD

LOGGED BY J. Paxton

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
		108.5-108.8 -- graphitic quarts phyllite													
		108.8-109.8 -- bleached kaolinized zone Shale? Faint F1 bedding? 80°.													
		109.8-110.1 -- graphitic quartz phyllite 110.1-110.2 -- bleached kaolinzed zone													
110.2	123.8	QUARTZ - SERICITE PHYLLITE													
		Gray colour. Strong F2 @ 75-80 . Numerous small complex F2 folds between F2 planes.	13.6/ 13.6												
123.8	134.0	CHLORITE - SERICITE PHYLLITE													
		Mottled pale gray and green. 20% calcite content. Numerous F2 folds. F2 foliation strong @ 70°125, 50° @ 130, 80° @ 133 .	10.0/ 10.2												
134.0	150.9	QUARTZ - SERICITE PHYLLITE													
		Dark gray colour. Numerous irregular small quartz veins 2-5 cm Blocky, ground core. F2 @ 85°.	15.5/ 16.9												
150.9	151.8	FAULT GOUGE	0.2/ 0.9												
151.8	152.5	GRAPHITIC PHYLLITE	0.7/ 0.7												

DIAMOND DRILL RECORD

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FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Sample Footage From	Sample Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
152.5	158.0	QUARTZ - SERICITE PHYLLITE													
		Similar to 134.6-150.9. F2 = 60°.	5.5/												
		155.9-156.5 -- quartz vein at 60°.	5.5												
158.0	188.6	GRAPHITE - QUARTZ PHYLLITE													
		Dark gray and white stripped. Well defined F1 folded between	30.0/												
		F2 planes. F2 @ 60°160, 45° @ 163, 55° @ 170, 70° @ 172, 85° @	30.6												
		182. Scattered pyrite, generally following F1.													
		White quartz 163.3-163.6, 169.8-170.0.													
		Fault gouge @ 164.3-164.4, 165.8-165.9, 181.1-181.15, 188.5-188.8													
188.6	192.3	BLEACHED BUFF SERICITE PHYLLITE													
		Gouge and breccia @ 191.4-191.6. Sharp contacts @ 75°.	3.7/												
			3.7												
192.3	193.7	QUARTZ - SERICITE PHYLLITE. Gray colour.	1.4/												
			1.4												
193.7	194.4	BLEACHED BUFF SERICITE PHYLLITE													
		Breccia and gouge @ 194.2-194.4 @ 45°.	0.6/												
			0.7												

DIAMOND DRILL RECORD

LOGGED BY J. Paxton

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
194.4	206.0	GRAPHITE - QUARTZ PHYLLITE													
		Strong F1, 1-3 cm cut by F2 @ 80-90°. 1-2 mm stringers of pyrite. Bleached buff zones -- 201.0-201.4	11.6/ 11.6												
		201.6-202.4													
		204.2-204.6													
		Fault gouge and breccia 205.2-205.3.													
206.0	206.84	MASSIVE SULPHIDES													
		206.0-206.3 -- massive sphalerite and pyrite. Fine-grained dark brown colour. Contains.5-2 cm fragments of siliceous material. Contacts harp at 70°. Estimate 10% pyrite, 12% lead-zinc.	0.9	1880	206.0	207.0	1.0	4.69	6.05	2.65					
		206.3-206.7 -- bleached sericite													
		206.7-206.8 -- massive sphalerite													
206.84	213.3	QUARTZ - GRAPHITE PHYLLITE													
		Locally bleached. Traces of lead-zinc locally.	6.5/ 6.5												
		209-212 -- brecciated phyllite and contorted quartz veins plus dark brown carbonate													
213.3	214.5	FRACTURED SERICITE PHYLLITE with massive sphalerite filling													
		fractures.													

DIAMOND DRILL RECORD

LOGGED BY J. Paxton

PROPERTY

D.D.H. No. 75-A90 PAGE 9 of 12

LATITUDE BEARING OF HOLE STARTED CLAIM No.

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

N

DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Pyrite	Lead-zinc	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
214.5	215.4	QUARTZ - SERICITE PHYLLITE WITH SULPHIDES Massive pyrite and sphalerite contacts sharp at 70°.	10%	4%	0.8	1881	213.3	214.6	1.3	4.80	7.83	1.82			6.24	10.179	2.366
			20%	15%	0.8	1882		215.4	0.8	7.50	12.32	2.94			6.00	9.856	2.352
215.4	218.2	QUARTZ - SERICITE PHYLLITE With wisps of sphalerite and galena.	5%	3%	0.8	1883		216.2	0.8	3.19	5.04	1.32			2.552	4.032	1.056
			5%	2%	0.3	1884		216.8	0.6	1.78	3.36	.74			1.068	2.016	0.444
			5%	5%	1.3	1885		218.2	1.4	1.68	3.06	.59			2.352	4.284	0.826
218.2	228.0	QUARTZ - SERICITE PHYLLITE F2 = 80-85°. Bleached 218.3-219.2, 222.5-224.4.															
228.0	252.0	BLEACHED BUFF SERICITE - KAOLIN PHYLLITE					213.3	216.2	2.9	5.10	8.30	1.99	(68.3)		14.792	24.067	5.774
		Faint F1 in open F2 folds. 239.5-242 -- cream colourted 2 mm porphyroblasts of staurolite. F2 @ 80° @ 233, 70° @ 237, 75° @ 240, 80° @ 245.					216.2	218.2	2.0	1.71	3.15	0.64	(21.8)		3.420	6.300	1.270
										4.99	8.13	1.999	(66.8)		14.970	34.403	5.848
252.0	253.9	QUARTZ - SERICITE PHYLLITE Gray colour. 253.5-253.9. Gouge @ 60°.															

DIAMOND DRILL RECORD

LOGGED BY J. Paxton

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

D.D.H. No. 75-A90 PAGE 10 of 12

CLAIM No.

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
253.9	258.5	BLEACHED QUARTZ - SERICITE PHYLLITE													
		256.0 -- open F3 (?) fold crest													
		257.2-257.4 -- fault gouge													
258.5	261.5	QUARTZ - SERICITE PHYLLITE Same as previous													
261.5	264.8	BLEACHED SERICITE PHYLLITE BRECCIA													
		Phyllite and quartz fragments in a tan sericite groundmass.													
264.8	266.0	MASSIVE SULPHIDES													
		Open fold nose. 30% quartz and barite. 3% magnetite. Estimate 60% pyrite, 6% lead-zinc.	1.3	1886	265.7	266.0	1.3	4.50	5.28	1.65					
266.0	267.5	SULPHIDE ZONE													
		Breccia. Masses and bands of massive sulphides in a buff quartz-sericite groundmass.													
267.5	268.7	QUARTZ - SERICITE BRECCIA WITH SULPHIDES													
		Breccia of quartz and 1-3 cm sericite fragments in a massive sulphide groundmass.													

DIAMOND DRILL RECORD

LOGGED BY J. Paxton

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

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CLAIM No.

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Pyrite	Lead-zinc	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
268.7	269.8	BLEACHED SERICITE PHYLLITE F2 = 40°															
269.8	273.1	MASSIVE SULPHIDE															
		Breccia of massive pyrite and quartz fragments in a mixed pyrite-sphalerite-galena groundmass. 1-3% magnetite.															
273.1	273.7	BLEACHED BUFF SERICITE BRECCIA	8%	2%	1.5	1887	266.0	267.5	1.5	1.00	.72	.38					
		Quartz fragments in buff sericite.	60%	2%	1.2	1888		268.7	1.2	2.50	3.60	1.09					
			2%	Tr.	1.1	1889		269.8	1.1	.35	.29	.24					
273.7	275.8	FAULT GOUGE.	60%	15%	1.2	1890		271.0	1.2	10.80	5.88	3.15			12.960	7.056	3.780
		Walls sharp at 45°.	70%	1%	0.9	1891		271.9	0.9	5.20	3.54	1.76			4.68	3.186	1.584
			60%	3%	1.2	1892		273.1	1.2	4.13	4.98	1.73			4.956	5.976	2.076
275.8	285.6	SERICITE - BIOTITE PHYLLITE															
		Very pale gray colour with brown streaks of fine biotite. F2 strong = 70°. 5% find disseminated pyrite.															
		918.9-919.1 -- white quartz					269.8	273.1	3.3	6.85	4.91	2.25	(77.3)		22.596	16.218	7.44
285.6	287.2	METAMORPHOSED DARK ROCK ~~(plot B?)~~															
		Dark grayish-brown colour. Massive with no F2 foliation. Appear to be composed of very fine biotite. Contacts irregular & brecciated.															

DIAMOND DRILL RECORD

LOGGED BY J. Paxton

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

D.D.H. No. 75-A90 PAGE 12 of 12

CLAIM No.

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
287.2	305.1	SERICITE PHYLLITE													
		Pale gray colour. Very fissile with strong F2 @ 70-80°throughout.													
		295.0-295.5 -- white quartz													
		294.8-294.9 -- pink garnets 1-3mm noted													
		300.2 -- abrupt colour change from pale gray to dark gray													
305.1	308.4	CHLORITE - SERICITE PHYLLITE													
		Gray colour with mottles of dark green chlorite. Streaks of mariposite													
		Scattered wisps of pyrite. F2 = 70°.													
308.4	314.0	GRAPHITE - SERICITE PHYLLITE													
		Black colour. Fissile. F3 kink fold lineation intersects L2													
		@ 80°. F2 70° throughout. Gouge -- 313.8-314.0.													
314.0	316.4	QUARTZ - SERICITE PHYLLITE													
		Gray colour. F2 = 70°. 315.4-315.9 -- gouge													
	316.4	END OF HOLE													
		REMARKS: 1. Relatively hard drilling.													
		2. Tropari surveyed.													
		3. Cemented with 14 bags.													

NOTE Change - May 8/75 transfer to Vane copy. Just Clear.

DIAMOND DRILL RECORD

LOGGED BY J. Paxton

PROPERTY VANGORDA, GRUN JOINT VENTURE

D.D.H. No. 75-A90 PAGE 1 of 12

	HIW	OLD
LATITUDE	35 673.64 N	8N
DEPARTURE	24 236.22E	74W
ELEVATION	4306.96'	4265'

BEARING OF HOLE 200' 59° 50' 89° / 400' 109° 50' 79°

DIP OF HOLE 600' 91° 20' 72° / 800' 78° 50' 69°

DIP TESTS

STARTED July 4, 1975 D.S.

COMPLETED July 19, 1975 D.S.

DEPTH Proposed: Ultimate: 1171' (1,037.8m)

CLAIM No.

DIRECTION AND DISTANCE FROM NE. CLAIM POST

metres FOOTAGE FROM	TO	DESCRIPTION	Rec. Ft.	Sample No.	metres Footage From	To	Sample Length	Assay Pb	Zn	Ag	Au	Cu	Assay x Feet Pb	Zn	Ag
0		TRICONE													
0	29.87	BW CASING													
29.9	46.2	QUARTZ - SERICITE PHYLLITE Dark gray sericite phyllite. Bleached 29.87-46.20. F2 strong @ 80°. Core blocky and broken.	15.0/ 16.3												
46.2	49.2	QUARTZ - SERICITE PHYLLITE. Bleached. 70% silicified material. 30% sericite, chlorite and mariposite. F2 = 50°. Traces of lead-zinc. Fault gouge @ 49.15-49.25. Walls @ 15°.	2.5/ 3.0												
49.2	51.6	SULPHIDES AND QUARTZ Banded at 50° with 2-5mm interbands of sulphides. Estimate: 10% pyrite, 7% lead-zinc.	2.40	1849	49.25	51.65	2.40	2.40	5.16	1.21			5,760	12.384	2.904
51.6	53.6	QUARTZ - SERICITE PHYLLITE. Bleached Massive, fine grained, buff coloured earthy kaolinitic rock. Traces of pyrite, lead-zinc.	2.0/ 2.0	1850	51.65	53.65	2.00	.13	1.08	.06		0.60%	0.078 0.230	0.648 2.160	0.036 0.120

DIAMOND DRILL RECORD

LOGGED BY J. Paxton

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

D.D.H. No. 75-A90 PAGE 2 of 12

CLAIM No.

DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Pyrite	Lead-zinc	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
53.6	56.5	SULPHIDES AND QUARTZ (similar to 49.2-51.6)															
		Numerous open, slightly recumbent folds with axis at 60° to C.A. Estimate 5% pyrite, 4% lead-zinc.			2.85	1851	53.65	56.50	2.85	1.45	3.90	.77			4.133	11.115	2.195
						W. Hr.	49.25	52.25	3.0	1.95	4.34	0.98	(33.6)		5.838	13.032	2.940
56.5	57.7	QUARTZ - CHLORITE Bleached.															
		70% silica, 30% chlorite. 57.0-57.2 -- fault gouge. Walls at 80°.			1.2/ 1.2												
57.7	61.5	SULPHIDES AND QUARTZ															
		2-5 mm interbands of quartz and pyrite. Estimate 5% pyrite and 5% lead-zinc.			3.83	1852	57.67	61.50	3.83	1.88	4.44	0.91			7.20	17.01	3.49
61.5	62.4	BLEACHED ZONE -- similar to 56.6-57.7															
		Contacts sharp at 60°.			9.0/ 9.0	0.9/ 3.9											
62.4	64.7	SULPHIDES AND QUARTZ															
		2-5 mm interbands at 60-80°.	5%	4%	.90	1856	62.4	63.3	0.90	2.08	5.04	1.09 (34.3)			1.87	4.54	0.90
		62.78-62.98 -- massive 63.3-63.67 -- fault gouge. Bleached. Mariposite.	--	--	.37/ .37		63.3	67.3									
			4%	3%	1.03	1853	63.7	64.7	1.03	1.50	3.72	0.74 (25.4)			1.55	3.83	0.76 (26.16)

DIAMOND DRILL RECORD

LOGGED BY J. Paxton

PROPERTY

D.D.H. No. 75-A90 PAGE 3 of 12

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

CLAIM No.

N — DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
64.7	66.5	QUARTZ - SERICITE PHYLLITE													
		Dark gray colour. Estimate 3% pyrite, 2% lead-zinc.	1.8	1854	64.7	66.5	1.8	1.48	3.42	0.71 (24.3)			2.666	6.16	1.28 (43.74)
				Wt. Av	63.7	66.5	2.83	1.49	3.53	0.72 (24.7)			4.21	9.99	(69.90)
													Weighted Average		
66.5	70.2	BLEACHED BUFF SERICITE MATERIAL		Wt. Av.	49.25	66.50	17.25	1.36	3.32	(23.1)			23.404	57.188	11.644
		67.45-67.65 -- massive pyrite-pyrrhotite vein with inclusions of siliceous material. Walls at 45°.			66.5	68.45									
		68.45-69.77 -- breccia of 1-5 cm rounded masses of siliceous and/or chloritic material in a pyrite-pyrrhotite-sphalerite ground mass. Estimate 4% pyrite, 1% lead-zinc.	0.95	1855	68.45	69.77	1.32	1.18	1.58	15.1			3.6	PE	
		69.77-70.2 -- bleached and leached earthy brown sericite-kaolin-quartz material. (solid fault gouge?)	0.43	1856	62.4 / 69.77	63.3 / 70.2	.9	2.08	5.04	34.3			Weighted Average		
70.2	79.0	GRAPHITIC - SERICITE - QUARTZ PHYLLITE													
		Occasional small F2 folds. F2 good at 80°. Scattered pyrite and sphalerite. Estimate 15% pyrite, 3% lead-zinc.	2.3	1857	70.2	72.5	2.3	.87	1.64	17.1			5.77	PE	
		70.2-71.0 -- breccia of graphitic phyllite fragments 1-5 cm in a pyrite-pyrrhotite groundmass. Minor lead-zinc noted.		Wt Av	68.45	72.5	4.05	2.53	PE				9.41		
		77.4-77.42 - massive pyrite-sphalerite vein at 90°. Trace of magnetite.													
			Pyrite	Lead-zinc											
79.0	79.9	GRAYISH - SERICITE - QUARTZ PHYLLITE	15%	3%	1.06	1858	77.39	79.05	1.66	4.60	7.56	61.4		7.636	12.5496	2.4714
		Locally brecciated and mineralized with pyrite and minor sphalerite. Occasional	10%	1%	.80	1859		79.90	.85	.70	1.82	(0.353) 12.0		0.595	1.547	0.2975
		1-3 cm rounded black chert pebble inclusions.	25%	7%	2.75	1860	79.50	79.90	.40					0.28	0.728	0.14
								82.65	2.75	7.43	10.70	110.0		20.43	29.425	8.8275

DIAMOND DRILL RECORD

LOGGED BY J. Paxton

PROPERTY

D.D.H. No. 75-A90 PAGE 4 of 12

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

CLAIM No.

DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Pyrite	Lead-zinc	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
79.9	82.5	QUARTZ - SERICITE ?							?	5.45	8.27	77.39	82.65		28.6635	29.425	
		BRECCIA	5%	2%	1.25	1862	83.45	84.70	1.25	1.68	5.40	.74			2.10	6.75	0.925
		Rounded fragments of phyllite and quartz in pyrite-sphalerite groundmass.	10%	4%	2.25	1863		86.95	2.25	2.18	5.04	1.12			4.905	11.34	2.520
			8%	3%	1.80	1864		88.90	1.95	3.45	6.60	1.29			6.73	12.87	2.516
82.5	83.3	SERICITE PHYLLITE	15%	1%	1.10	1865		90.0	1.10	1.88	1.88	.59			2.068	2.068	0.649
		Bleached and leached with flecks of green mariposite. Contacts @ 65°.	30%	3%	1.00	1866		91.0	1.00	2.38	2.46	1.00	2.12	2.16	2.380 .82	2.460	1.000
			15%	6%	1.00	1867		92.0	1.00	4.35	7.08	1.94			4.350	7.080	1.940
83.3	91.0	DARK GRAY SERICITE PHYLLITE	15%	7%	1.00	1868		93.0	1.00	5.11	6.13	2.24			5.11	6.13	2.24
		Interbanded with pyrite-lead-zinc mineralization in bands 1-2 cm.	20%	6%	0.95	1869		93.95	0.95	3.60	4.08	1.47			3.42	3.876	1.397
		Mineralized open F2 folds noted. 88.9-90.0 -- bleached sericite fold crest	8%	8%	0.50	1870		94.60	0.65	3.83	8.72	1.76			2.4895	5.668	1.144
		90.8-91.0 -- massive pyrite with traces of lead-zinc	8%	3%	0.25	1871		94.85	0.25	4.13	9.60	2.09	3.91	8.97	1.0325	2.400 1.84	0.523
						Wr Au	82.65	86.95	3.5	2.00	5.17	.98	Weighted Average				
						"	77.39	82.65	5.26	5.45	8.27	78.8			28.6635	43.5216	
						"	83.45	86.95	3.5	2.01	5.17				7.005	18.09	
						"	91.0	94.85	3.85	4.26	6.53	64.5					
						"	79.50	82.65	3.15	6.58	9.57	97.6			20.712	30.153	8.968
						W. Au	83.45	88.90	5.45	2.52	5.68	37.5			13.733	30.960	5.961
						— " —	88.90	91.00	2.1	2.12	2.16	26.9			4.448	4.528	1.649

DIAMOND DRILL RECORD

LOGGED BY J. Paxton

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

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CLAIM No.

DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Pyrite	Lead-zinc	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
91.0	99.5	SULPHIDES AND QUARTZ															
		Banded sulphides and silicified phyllite. F1 prominent at 0-45°. F2 at 70-80°.	5%	1%	1.55	1872	94.85	96.40	1.55	.35	.40	.15					
			8%	6%	2.10	1873		98.50	2.10	3.75	5.52	1.76			7.875	11.592	3.696
			10%	4%	1.00	1874		99.50	1.00	3.23	4.14	1.30			3.23	4.14	1.30
99.5	101.9	QUARTZ - SERICITE PHYLLITE (?)	---	---	2.3/ 2.3			101.9							0	0	0
		Bleached buff vuggy kaolinzed sericite rock. May be altered	10%	3%	2.05	1875		104.0	2.05	3.12	5.52	1.29			6.396	11.316	2.709
		granitic dyke. Contacts sharp at 50°.	20%	6%	1.00	1876		105.0	1.00	5.88	9.51	2.48			5.88	9.51	2.48
			10%	5%	1.00	1877		106.0	1.00	4.28	8.50	1.59			4.28	8.50	1.59
101.9	108.0	SULPHIDES AND QUARTZ	10%	10%	1.00	1878		107.0	1.00	8.91	15.64	3.65			8.91	15.64	3.65
		Interbanded quartz, silicified phyllite and sulphides at 60°.	10%	12%	1.00	1879		108.0	1.00	6.94	13.67	3.03			6.94	13.67	3.03
		Bands 1-5 cm parallel to F2.				Wt. Au	77.4	108.0	30.6	9.39 oz.				Coke			
108.0	110.2	MIXED ZONE			2.0/ 2.2		104	108	4.00	6.50	11.83	2.69 (92.1)			26.01	47.32	10.75
															Weighted Average		
		108.0-108.3 -- bleached buff sericite. 108.3-108.4 -- gouge					96.4	99.5	3.1	3.58	5.07	55.3			11.105	15.732	4.996
		108.4-108.5 -- black plastic fault gouge					101.9	108	6.10	5.34	9.66	76			32.562	58.912	13.459

DIAMOND DRILL RECORD

LOGGED BY J. Paxton

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

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CLAIM No.

DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Pyrite	Lead-zinc	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
214.5	215.4	QUARTZ - SERICITE PHYLLITE WITH SULPHIDES Massive pyrite and sphalerite contacts sharp at 70°.	10%	4%	0.8	1881	213.3	214.6	1.3	4.80	7.83	1.82			6.24	10.179	2.366
			20%	15%	0.8	1882		215.4	0.8	7.50	12.32	2.94			6.00	9.856	2.352
215.4	218.2	QUARTZ - SERICITE PHYLLITE With wisps of sphalerite and galena.	5%	3%	0.8	1883	216.2	216.2	0.8	3.19	5.04	1.32			2.552	4.032	1.056
							216.2	216.7	0.5						0.890	1.680	0.370
			5%	2%	0.3	1884		216.8	0.6	1.78	3.36	.74			1.068	2.016	0.444
			5%	5%	1.3	1885		218.2	1.4	1.68	3.06	.59			2.352	4.284	0.826
218.2	228.0	QUARTZ - SERICITE PHYLLITE F2 = 80-85°. Bleached 218.3-219.2, 222.5-224.4.															
228.0	252.0	BLEACHED BUFF SERICITE - KAOLIN PHYLLITE				Wt. Au	213.3	216.2	2.9	5.10	8.30	1.99	(68.3)		14.792	24.067	5.774
		Faint F1 in open F2 folds. 239.5-242 -- cream colourted 2 mm porphyroblasts of staurolite.				" "	216.2	218.2	2.0	1.71	3.15	0.64	(21.8)		3.420	6.300	1.270
		F2 @ 80° @ 233, 70° @ 237, 75° @ 240, 80° @ 245.				" "	213.3	216.7	3.4	4.61	7.57	1.81	(62.1)		15.68	25.75	6.14
252.0	253.9	QUARTZ - SERICITE PHYLLITE Gray colour. 253.5-253.9. Gouge @ 60°.															

DIAMOND DRILL RECORD

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PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

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CLAIM No.

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
253.9	258.5	BLEACHED QUARTZ - SERICITE PHYLLITE 256.0 -- open F3 (?) fold crest 257.2-257.4 -- fault gouge													
258.5	261.5	QUARTZ - SERICITE PHYLLITE Same as previous													
261.5	264.8	BLEACHED SERICITE PHYLLITE BRECCIA Phyllite and quartz fragments in a tan sericite groundmass.													
264.8	266.0	MASSIVE SULPHIDES Open fold nose. 30% quartz and barite. 3% magnetite. Estimate 60% pyrite, 6% lead-zinc.	1.3	1886	265.7	266.0	1.3	4.50	5.28	1.65			5.85	6.86	2.15
266.0	267.5	SULPHIDE ZONE Breccia. Masses and bands of massive sulphides in a buff quartz-sericite groundmass.													
267.5	268.7	QUARTZ - SERICITE BRECCIA WITH SULPHIDES Breccia of quartz and 1-3 cm sericite fragments in a massive sulphide groundmass.													

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CLAIM No.

DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	Pyrite	Lead-zinc	Rec. Ft.	Sample No.	Footage From	Footage To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Feet Pb	Assay x Feet Zn	Assay x Feet Ag
268.7	269.8	BLEACHED SERICITE PHYLLITE F2 = 40°															
269.8	273.1	MASSIVE SULPHIDE															
		Breccia of massive pyrite and quartz fragments in a mixed pyrite-sphalerite-galena groundmass. 1-3% magnetite.															
273.1	273.7	BLEACHED BUFF SERICITE BRECCIA	8%	2%	1.5	1887	266.0	267.5	1.5	1.00	.72	.38			1.50	1.08	0.57
		Quartz fragments in buff sericite.	60%	2%	1.2	1888		268.7	1.2	2.50	3.60	1.09			3.00	4.32	1.31
			2%	Tr.	1.1	1889		269.8	1.1	.35	.29	.24					
273.7	275.8	FAULT GOUGE.	60%	15%	1.2	1890		271.0	1.2	10.80	5.88	3.15			12.960	7.056	3.780
		Walls sharp at 45°.	70%	1%	0.9	1891		271.9	0.9	5.20	3.54	1.76			4.68	3.186	1.584
			60%	3%	1.2	1892		273.1	1.2	4.13	4.98	1.73			4.956	5.976	2.076
275.8	285.6	SERICITE - BIOTITE PHYLLITE															
		Very pale gray colour with brown streaks of fine biotite. F2 strong = 70°. 5% find disseminated pyrite.				WT.AV.	264.7	268.7	4.0	2.59	3.07	1.01	(34.6)		10.35	12.26	4.03
		918.9-919.1 -- white quartz				WT.AV	269.8	273.1	3.3	6.85	4.91	2.25	(77.3)		22.596	16.218	7.44
285.6	287.2	METAMORPHOSED DARK ROCK (~~plot—B?~~)															
		Dark grayish-brown colour. Massive with no F2 foliation. Appear to be composed of very fine biotite. Contacts irregular & brecciated.															