A75-61 to 75 (typed)

VANGORDA GRUM

DIAMOND DRILL RECORDS

A-61 to A-75

Nov. 24/74 - May/75

018535

DIAMOND DRILL RECORD

LOGGED BY Fred Chow

PROPERTY Vangorda Grum Zone. Kerr - AEX Joint Venture

D.D.H. No. A - 61 PAGE 1 of 9

LATITUDE 11,080.86 N | 4+00 BEARING OF HOLE ____ STARTED Nov. 24/74 N.S.

DEPARTURE 7302.55 E | 88W DIP OF HOLE - 90° COMPLETED Dec. 5/74 N.S.

846 P.A. Topog. Proposed: 1350'

ELEVATION 4319 A.S.L. - 4361 DIP TESTS ____ DEPTH Ultimate: 907' (276.45m)

1328.93 ~~(1289.41m)~~ 1324 1316.9 HOLE SIZE: 0 - 10 NW 484-907 BQ A-61A 484-492 NQ, 496-857 BQ.
10 - 484 NQ 492 - 496 BW

N ← DIRECTION AND DISTANCE FROM NE. CLAIM POST

CLAIM No. GRUM 1

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	REC. FT	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	ASSAY
0	2.4m 8	OVERBURDEN					
8	21.3m 70.1	QUARTZ-SERICITE PHYLLITE. Light to Med. grey SB S	5.7/ 9.0		17.0		
		55% qtz. Poorly banded, also thinly foliated. Oxidation to 16'. Fissile.	25/26 6.7/10		43.0 53.0		
		Local F1 moderately developed. Many quartz veins from 56 - 70'. C.A.: 70 to 34'; 75 at 35 - 51'; 80 at 52 - 55'; 60 at 56'; 75 at 60'; 60 at 62'	13.4/ 17.1		70.1		
		70 at 66'; 60 at 69'.					
70.1	26.2m 86.2	QUARTZ-SERICITE PHYLLITE WITH CHLORITE BANDS SB8/SD Sc					
		Similar rock as above section with bands of chlorite associated with the many	15.6/ 16.1	70.1	86.2		
		quartz veins - follow banding. C.A. 70 at 72'; 75 at 73 - 86'.					
86.2	42.m 138.0	QUARTZ-SERICITE PHYLLITE. Pale grey with buff S					
		50 - 55% qtz. Thinly foliated and/or laminated ser. Light grey, banded phy					
		similar to first section occur at 88.5 - 93.3 and at 130 - 137'.	51.0/ 51.8	86.2	138.0		
		102 - 107' totally bleached to buff color. also sheared and brecciated from					
		104.8 - 106.4. No sulphs noted.					
		C.A.: 70 at 88'; 80 at 89'; 75 - 80 at 90 - 99'; 70 at 100'; 80 at 102'; 75 at					
		109'; 75 - 80 at 110 - 138';					

DIAMOND DRILL RECORD

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PROPERTY _____

D.D.H. No. A - 61 PAGE 2 of 9

LATITUDE _____ BEARING OF HOLE _____ STARTED _____

DEPARTURE _____ DIP OF HOLE _____ COMPLETED _____

ELEVATION _____ DIP TESTS _____ DEPTH _____

CLAIM No. _____

N

DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE No.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	ASSAY
	53.2M	SB2					
138.0	174.7	QUARTZ-SERICITE PHYLLITE ± GRAPHITE. Alternating Sections Pale grey with buff ser and med. grey ser.	35.5/				
		50 - 55% qtz, 60% med. grey ser and 40% buff ser, contacts sharp. Graph minor constituent here and there. Interbanding of previously mentioned phyllites. Rock mostly thinly laminated. F1 locally well developed. A few tension cracks noted. C.A.: 75 - 80 to 164'; 70 at 165 - 166'; shear at 166.5'; 85 at 167 - 177'.	36.7	138.0	174.7		
	78.6m	SB S	22.7/				
174.7	258.0	QUARTZ-SERICITE PHYLLITE. Pale Grey to Buff Grey	23.3	174.7	198.0		
		60% qtz. Thinly foliated ser with minor white qtzose bands. A few F1 developed to 253'. Rock firm, a few narrow shears. F1 well developed within last 5 ft. C.A.: 75 - 85°. F2 fold at 219.5.	10.4/ 20.0		218.0		
			0.7/1 39/39		219.0 258.0		
	103.9M	SB S	30/30	258.0	288.0		
258.0	341.0	QUARTZ-SERICITE PHYLLITE. Med. grey with pale buff-grey bands.	4.7/7		295.0		
		50 - 60% qtz. Thinly laminated and/or banded. Mainly med. grey ser with narrow bands or wider sections of pale grey ser, with buff color intermingled. F1 locally developed. No sulphs noted.	0.05/6 1.1/2		301.0 303.0		
			6.8/ 8.5		311.5		
		C.A.: 70 at 259'; 75 at 260 - 269'; 80 at 270'; 75 at 273'; 80 at 278'; 85 at 281'; 80 at 284'; 70 at 285'; 75 at 288'; 90 at 301'; 70 at 304'; 75 at 367'; 85 at 313'; F2 fold at 321.3'; 40 at 322'; 75 at 323'; 75-80 at 324 - 328'; 70 at 330'; shear at 330.5'; 70 at 331 - 335'; 75 to 340';	19/ 19.5		331.0		
			10/10		341.0		

DIAMOND DRILL RECORD

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LATITUDE _____ BEARING OF HOLE _____ STARTED _____

DEPARTURE _____ DIP OF HOLE _____ COMPLETED _____

ELEVATION _____ DIP TESTS _____ DEPTH _____

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE No.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	ASSAY
341.0	109.1 358.0	QUARTZ-SERICITE PHYLLITE. Light grey, Striped					
		60 - 65% qtz, white qtzose bands and light pale grey ser bands. F1 prominent.	17/17	341.0	358.0		
		Minor shears at 352.8 - 360'. C.A. 80 to 347'; 75 - 70 to 358'.					
358.0	134.2 440.5	QUARTZ-SERICITE PHYLLITE. Light to med. grey with pale buff-grey bands	7.5/8	358.0	366.0		
		Similar to 258 - 341' section. C.A.: 40 shearing at 360'; 80 at 362'; 70 at	18/28		394.0		
		364'; 60 at 365'; 80 at 366'; 65 at 367'; 60 at 368'; shear at 368.5'(gouge)					
		65 at 372'; 75 at 374' - 384'; 65 at 386'; 70 at 387'; 75 - 85 to 404 - 420';	30/30		424.0		
		60 at 420.5'; 75 to 430'; 85 at 435'; 70 at 437'.	13.4/ 16.5		440.5		
440.5	136.5 448.0	QUARTZ-GRAPHITE PHYLLITE					
		Thinly foliated. Highly fractured and sheared. Main shear zone below.	6/7.5	440.5	448.0		
		C.A.: 75 - 60°.					
448.0	146.9 482.0	SHEAR ZONE in Light grey ser phyllite	1.2/2 1.3/8	448.0	450.0 458.0		
		Rock intensely sheared: upper 2' graphitic and mainly gouge,, lower section	5.5/ 14.5		472.5		
		rendered to chips or friable mass. C.A.: 75 at 454'; 40 at 460'; 25 at 461';	3.1/				
		70 at 463'; 50 at 469'; 75 at 476'.	9.5		482.0		

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LATITUDE _____ BEARING OF HOLE _____ STARTED _____

DEPARTURE _____ DIP OF HOLE _____ COMPLETED _____

ELEVATION _____ DIP TESTS _____ DEPTH _____

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE No.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	ASSAY
482.0	535.5 (163.2)	QUARTZ-SERICITE PHYLLITE. Light to Med. grey with Buff-Grey Bands	2.9/ 3.5	482.0	485.5		
		Similar to 258 - 341' Section. slightly more buff ser and more altered. Many	2.8/ 4.0		489.5		
		sheers, core broken, some with gouge. C.A.: 75 to 484'; 70 to 496'; 0 at 498'; 60 at 499'; 70 to 503'; 75 at 505';	18.8/ 21.5		511.0		
		90 at 506'; 70 at 507'; 75 at 508'; 70 at 512'; 65 at 515'; 75 at 518'; 70 at 524'; 75 at 526'; 85 at 527'; 75 at 534'.	14.3/ 15.0		526.0		
			5.5/ 9.5		535.5		
535.5	560.2 (170.7)	QUARTZ-SERICITE-BIOTITE PHYLLITE. Light brown grey and grey-brown					
		60% qtz. Thinly laminated, light grey with brown tinge to 557', then med. brown					
		with grey to 560'. Local Fl mod. developed. Rock massive, minor shears and fractures. C.A.: 75 to 543'; 80 - 85 to 548'; 75 to 553'; shear at 553.5';	24.4/ 24.7	535.5	560.2		
		90 at 554'; 30 slip at 554.7 (top ↓, bottom ↑), 85 at 556 - 560'.					
560.2	593.0 (180.7)	QUARTZ-SERICITE PHYLLITE. Med. Grey					
		Similar to above 535.5 - 560.2 without the biotite. Local Fl poor .	30.2/ 32.8	560.2	593.0		
		C.A.: 80 at 560 - 563'; shear at 563.5'; 70 at 564'; 45 shear at 565 - 566'; 70 at 567'; 65 at 568'; 80 at 569'; shear at 571'; 80 at 572'; 75 at 575'; 85 at					
		576'; 40 slip at 577.5'; 80 at 579'; 45 shearing at 580.5 - 584'; (CA 0 - 45°); 75 at 585'; Fl (?) nose at 590'; 75 to 593'.					

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LATITUDE _____ BEARING OF HOLE _____ STARTED _____

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE No.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	ASSAY
593.0	186.4m 611.8	QUARTZ-SERICITE PHYLLITE. Med. Grey Banded					
		60 - 65% qtz. White qtzose bands, appear to be discontinuous - F1 folding.					
		Narrow shears, generally//banding.	18.8/				
		C.A.: 70 at 594'; shearing at 594.5 - 596.5'; 70 at 597'; 80 at 600'; 75 at 602';	18.8	593.0	611.8		
		shears and slips at 601.7'; silp at 603.5'; 70 at 604'; 85 at 605'; shear at 605.5'; 85 at 606'; 75 at 607 - 611'.					
611.8	190.0m 623.5	QUARTZ-SERICITE PHYLLITE. Light grey with buff.					
			11.0/				
		60% qtz. Thinly foliated light grey ser with threads buff ser. F1 poorly	11.7	611.8	623.5		
		developed. C.A. 75 - 80°.					
623.5	191.1 627.0	QUARTZ-SERICITE PHYLLITE.					
			2.6/				
		As 593.0 - 611.8'. C.A.: 80°.	3.5	623.5	627.0		
627	195.2 640.5	FAULT AND SHEAR ZONE	0.35/ 3.0	627.0	630.0		
			3.1/				
		Within med. grey banded quartz-ser phy. Gouge from 627 - 632', mod. to highly	6.5		636.5		
		fractured rock at 632 - 637', highly sheared and gouge at 637 - 640.5'.	1.4/				
		C.A.: approx. 80 - 85°.	4.0		640.5		

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE No.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	ASSAY
640.5	215.6m 707.4	QUARTZ-SERICITE PHYLLITE, As 593.0 - 611.8	6.2/8	640.5	648.5		
		C.A.: 65 at 640.5 - 643'; 75 at 645'; 70 at 648'; shear at 648.5 - 652'; 75 at 653 - 660'; 70 to 664'; 75 to 673'; slips at 673 - 676'at 35 - 45 to core.	1.1/4		652.5		
		many slips to 707' (top), 70 at 674'; 75 - 80 to 686'; 75 to 697'; 70 to 707'.	54/ 54.9		707.4		
707.4	220.0m 722.0	QUARTZ-SERICITE PHYLLITE. Pale grey, Altered					
		60% qtz. White qtzose banded and thinly foliated pale grey ser to 712'. Altered	3.2/ 3.6	707.4	711.0		
		dirty brownish grey from 712(?) - 722', looks massive but core recovery poor from 711 - 722'. Recovered 1.5' cored sandy grains on next run down to bottom	3.3/ 11.0		722.0		
		(722'). C.A.: 65 at 708'; 55 at 710 - 712 -, 713(?).					
722.0	235.7 773.5	QUARTZ-SERICITE PHYLLITE, as 593 - 611.8' with Mild Alteration					
		Similar phy with about 10% buff sericite.	40/ 40.5	722.0	762.5		
		C.A.: 70 at 722'; 80 at 724 - 727'; 75 to 734'; 70 to 740'; 75 to 750'; 85 at 751'; 75 - 80 to 763'; 70 at 768'; 80 at 772'; shear? at 773 - 773.5.	4.7/10 0.7/1		772.5 773.5		
773.5	240.5 789.2	QUARTZ-SERICITE-GRAPHITE PHYLLITE					
		60 - 65% qtz. Med grey - dark grey - Black. Graph content increases from					
		0 - 5% towards 769'. Thinly laminated, F1 moderately developed. Fault and breccia at 784.5 - 786'. Many slips approx. 45°.	15.7/ 15.7	773.5	789.2		
		C.A.: 85 to 775'; 75 to 783'; 65 at 784'; 65 at 787'; 50 at 788'.					

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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
	245.6														
789.2	805.9	SULPHIDE ZONE IN QUARTZ-GRAPHITE AND QUARTZ-SERICITE PHYLLITES													
		Mineralization appears to lie along fringe of mineralized body.													
		F1 mod. developed, both F1 and F2 mineralization.													
		789.2 - 794.6': qtz-graph-ser, minor streaks of sulphs, 2 - 3 py 2 PbZn, highly folded.	5.3	968	789.2	794.6	5.4	.39	.72	.18					
		- 797.2': qtz-graph-ser, sulphs in thicker bands and more massive, 8 py, 6 - 7 PbZn, highly folded	3.2	969		243.2' 798.0	3.4	1.40	2.46	.50			4.76	8.364	1.7
		- 798.0': mass sulph, 45 py, 10 PbZn	2.6	970		800.9	2.9	1.93	4.02	1.18			5.597	11.658	3.422
		- 798.8': buff altered ser with fuschite, negl sulph													
		- 800.9': qtz-ser, buff alteration, a few bands (1/2") rich ZnPb, 25 py, 7 - 8 PbZn	3.5	971		804.7	3.8	1.05	1.66	.32			3.99	6.308	1.216
		- 803.7': buff ser alteration with fuschite and minor py, PbZn	1.2/ 1.2			805.9									
		- 804.7': qtz-graph, ser-sulphs, 3 py, 8 PbZn, visible chalco.		Wt. Au.	794.6	800.9	6.3	1.64	3.18	.81			10.357	20.022	5.122
		- 805.9': buff qtz, spot of galena and arsenopy.		Wt. Au.	794.6	804.7	10.1	1.42	2.61	.63			14.347	26.33	6.338
		C.A.: 70 at 790'; 65 at 792'; 55 at 794'; 65 at 795'; 70 at 796 - 798'; 60 at 799'; 75 at 800 - 804'.													
	834.1														
805.9	833.7	QUARTZ-SERICITE PHYLLITE. Med grey with minor buff alteration													
		55% qtz. Dirty med. grey with dissem buff carb. F1 mod. developed													
		Rock massive and firm. Negl. py and blebs pyrr.	27.5/ 27.8		805.9	833.7									
		C.A.: 45 at 806.5'; 70 at 809'; 20 at 811'; 60 at 813'; 40 at 816.5'; 70 at 818'; 60 at 820'; 90 at 821'; 70 at 823'; 85 at 824'; 75 at 826'; 65 at 828'; 60 at 830'; 80 at 833'.													

DIAMOND DRILL RECORD

LOGGED BY _____

PROPERTY _____

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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
833.7	262.5 861.4	QUARTZ-SERICITE PHYLLITE. Altered buff-grey with sulphide band.													
		60% qtz. Thinly foliated light grey ser with slightly buff ser and buff carb. Minor blebs and blobs PbZn assoc. with qtz veins. Negl. py, PbZn except within one siliceous band at 840 - 845' which contain about 20 py, 3 - 4 PbZn.	4/6.3		833.7	840.0									
		C.A.: 65 at 837'; 70 at 839 - 843'; 50 at 844'; 40 at 845'; 70 at 848'; 85 at 850'; 70 at 851 - 854'; 45 at 855'; 60 at 856'; 90 at 858'; 80 at 860'.	4.6	972		845.0	5.0	1.88	2.64	1.03					
861.4	276.4 907.0	SULPHIDE ZONE IN QUARTZ-SERICITE-GRAPHITE PHYLLITE													
		Zone highly siliceous and hard, though parts readily along foliation planes. 20% ser, 1 - 3% graph, 7 - 15 py, locally less or higher. PbZn uniformly low, about 3 to 4% comb. Zone preceded by section of bleached buff phyllite - highly sericitic, and contains negl. sulphides. Sulphs occur as disseminations within bands, a few massive narrow sulph bands. Min. occur mainly in F2 though F1 are usually mineralizaed and are well developed.	5.2/ 5.2		861.4	866.6									
			5.4	973	866.6	872.0	5.4	1.55	1.88	.65			8.37	10.152	3.51
			9.1	974		881.1	9.1	1.85	3.00	.95			16.835	27.3	8.645
			10.0	975		886.6 891.1	(5.5) 10.0	1.50	1.72	.65			8.25	9.46	3.575
		861.4 - 866.6': buff ser, negl sulphs.					(4.5)						15.0	17.2	6.50
		- 872.8': qtz-ser-sulphs, 10 py, 3 pyrr, 5 PbZn	6.1	976		897.2	6.1	1.28	1.76	.56			7.808	10.736	3.416
		- 873.8': mass. sulphs, 60 py, 10 PbZn - 881.1': qtz-ser-graph-sulphs, 15 py, 7 PbZn	9.8	977		907.0	9.8	1.10	1.54	.44			10.78	15.092	4.312
		- 897.2': qtz-ser-graph-sulphs, 10 - 15 py, 3 - 4 PbZn - 907.0': qtz-ser-graph-sulphs, 7 - 8 py, 2 - 4 PbZn			866.6	881.1	14.5	1.74	2.58	.84			25.205	37.452	12.155
		C.A.: 85 at 863'; 75 - 80 to 866'; 70 at 866.6 (35 at 868.5 F2 nose at 869'), 70 - 75 to 872'; (F1 nose? in mass sulphs at 873.4');			866.6	886.6	20.0	1.67	2.35	.79			33.455	46.912	15.7305
		70 at 875'; 75 to 880'; 70 to 886'; 75 at 887'; 80 at 889'; 70 at 892'; 75 at 894'; 75 - 80 to 904'; 70 at 906'; 75 at 907'.			881.1	907.0	25.9	1.3	1.66	.53	(18.8 oz/ton)		33.588	43.028	14.228

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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
	907.0	END OF HOLE													
	276.4 m.	Remarks:													
	1.	Hole tighten up due to caving and/or squeezing within fault(s), and shear zones between 440 - 641'. Decide to case to 641'.													
	2.	Stuck NQ bit and core barrel at 492', broke barrel, unable to pick up tube with BW Carbide shoe - Shoe glancing off top of tube.													
	3.	Run BW casing to 484' (top of core barrel), resume BQ core drilling at 484' (hole #A-61A.)													
	4.	Hole tighten up at 857' in new hole, turnable to run BW casing past 496' (object 641'). Decided to stop hole.													
		Lost and wore out:													
		1 NQ Bit (#6507?) or N5L3507 1 NQ Shell # N7YA724													
		1 NQ 5' Outer Tube) 1 NQ 5' Inner Tube c/w back end) core barrel assembly													
		1 NQ Stabilizer 1 NQ Landing Ring													

DIAMOND DRILL RECORD

LOGGED BY Fred Chow

PROPERTY Vangorda "Grum" Zone, Kerr - AEX Joint Venture

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LATITUDE 10660.22 N (2400 ~~1496N~~) BEARING OF HOLE Coll. 200' 400' 600' 740'

	Coll.	200'	400'	600'	740'
BEARING OF HOLE		121°20'	105°20'	113°20'	100°20'
DIP OF HOLE	-90°				
DIP TESTS		86°30'	80°	79°	73°

DEPARTURE 7650.77 E (~~70W~~ +2.9m NW)

ELEVATION 3473 A.S.L. (1290.45m) (4197) 718' P.A. Topog

HOLE SIZE: 0 - 10 HW, 10 - 82 BW
82 - 988 BQ

STARTED Nov. 26/74 D.S.

COMPLETED Dec. 7/74 D.S.

DEPTH Proposed: 990'
Ultimate: 998' (301.14m)

CLAIM No. Grum 3

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	59 (17.9m)	OVERBURDEN													
59	108.0 (32.9)	QUARTZ-SERICITE PHYLLITE. Med. Grey.	11/21.0		59	80.0									
		60% qtz, Banded, light to med-grey qtzose bands and med. grey ser bands. F1 mod. developed.	9.8/13.0			93.0									
		C.A.: 70 to 68'; 75 at 69 - 74'; 70 to 93'; 65 - 60 to 104';	3.0/9.0			102.0									
		70 to 107'.	6.0/6.0			108.0									
108.0	121.3 (36.9)	QUARTZ-SERICITE-GRAPHITE PHYLLITE													
		65% qtz. Similar to 59 - 108' section, with 1 - 5% graphite.	7.1/9.0		108.0	117.0									
		C.A.: 65 at 108'; 60 at 113'; 65 at 120'; shear at 121'?	1.7/4.3			121.3									
121.3	216.0 (65.8)	QUARTZ-SERICITE PHYLLITE and QUARTZ-SERICITE-GRAPHITE PHYLLITE	10.9/14.7		121.3	136.0									
		Altered.	10.6/11.5			147.5									
		60 - 70% qtz. Light grey sericitic phyllite with buff alteration from 121.3 - 147.9 and from 176 - 216', sandwiching a section of ser-graph phy which contains minor barite-carb and about 1 - 5% py	6.2/10.5			158.0									
		with a few blebs ZnPb between 158 - 171' (recovery poor).	1.3	984		171.0	13.0	.33	.18	.29					
		C.A.: 65 - 70 to 216'.	0.6/2			173.0									
			5/10			183.0									
			0.1/2			185.0									
			5.2/9			194.0									
			10/12			206.0									
			4/10			216.0									

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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
65.8	74.3m														
216.0	244.0	QUARTZ-SERICITE PHYLLITE. Bleached Buff													
		70% qtz. Siliceous and hard rock. 75% bleached to buff color.	19.0/ 22.0		216.0	238.0									
		Banding disappears with depth and becomes massive rock. Many fractures and tension gashes, all filled with qtz and tan carb.	3.6/ 4.0			242.0									
		Shear with breccia + gouge in last 2' in contact with sulphs below	0.6/ 2.0			244.0									
		Negl. minute py, no PbZn noted.													
		C.A.: 50 at 216 - 219'; 60 to 225'; 55 to 233'; 45 to 235'; 55 to 238'; 60 at 239'; 80 shear at 240'; 70 at 241'.													
244.0	281.1	85.6m SULPHIDE ZONES IN QUARTZ-SERICITE PHYLLITE SHEAR ZONE	0.9	985	244.0	248.0	4.0	2.10	2.40	.85			8.40	9.60	3.40
		Mainly two bands of massive pyritic PbZn sulphs occupying the upper	0.6	986		251.0	3.0	11.13	9.51	4.47			33.39	28.53	14.41
		and lower part of the shear zone.	1.3/ 7.0			258.0									
		244 - 248.0': 40% py with barite-qtz, negl PbZn, fractured, possibly sheared; poor core recovery	5.4/ 8.0			266.0									
		- 251.0': as above, 50 py, 10 PbZn, poor core recovery	0.6/ 1.0			267.0									
		- 261.0': grey aft'd ser-phy, mod. shearing, negl py, broken core.													
		- 265.7': buff alt'd ser-phy, sheared + brecciated broken core													
		- 267.8': fault gouge	3.0	987		270.5	3.5	7.53	6.48	2.71			26.355	22.68	9.485
		- 268.3': qtz-ser-sulphs, 35 py, 6 PbZn, partly brecciated													
		- 270.0': mass sulphs with bar + sulph breccia re-cemented by sulphs. 55-60 py, 10 PbZn, lower and porous	6.4	988		277.0	6.5	9.93	6.24	3.35			64.545	40.56	21.775
		- 275.8': mass sulph breccia, re-cemented by sulphs, 65 py, 10 PbZn	3.4	989		280.6	3.6	.62	.78	.26					
		- 277.0': qtz-ser with solid bands Py, PbZn 45 py, 8 PbZn	0.4/ 0.5			281.1									
		- 280.6': qtz-ser, buff with minor sulphs, 1 py, 0.3 PbZn highly sheared, breccia + gouge.			244.0	251.0	7.0	5.97	5.45	2.54	wt.av.		41.79	38.13	17.81
		- 281.1': qtz-ser buff.			267.0	277.0	10.0	9.09	6.32	3.13			90.9	63.24	31.26

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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
		C.A.: 70 at 246 + 252'; 60 at 258'; 70 at 260 - 268'; 45 at 276'.													
	92.9m														
281.1	305.0	QUARTZ-SERICITE PHYLLITE. Med. Grey													
		60 - 65% qtz. Banded - light grey qtzose and med. grey ser. bands.	20.9/ 23.9		281.1	305.0									
		Local Fl poor. Mod. fracturing with qtz-carb filling. C.A.: 70 at 281'; 20 at 282'; 60 at 283 - 286'; 70 at 287'; 60 at													
		290 - 297'; 70 to 300'; 60 to 304'; 20 shear contact with unit below.													
	96.9														
305.0	318.0	QUARTZ-SERICITE PHYLLITE. Altered Buff	2.6/ 3.0		305.0	308.0									
		60% qtz. Bleached totally to buff color. Thinly foliated, firm	1.8/ 10.0			318.0									
		C.A.: 10 shear at 305.2 - 306.4'; 55 at 307'; 70 to 318'.													
	90.1														
318.0	325.2	QUARTZ-SERICITE PHYLLITE													
		As 281.1 - 305.0'. C.A. 60°. Firm rock.	7.2/ 7.2		318	325.2									
	103.6														
325.2	340.2	QUARTZ-SERICITE-CHLORITE PHYLLITE. Light greenish grey													
		60% qtz. 1 - 5% chlorite. Thinly foliated greenish-grey ser with													
		1 - 2% buff ser. Firm rock. C.A.: 60 to 339'; 55 at 340'; 40 shear contact at 325.2'; 60° qtz vein contact at 340.2			325.2										

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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
	113.8m														
340.2	373.6	QUARTZ-SERICITE PHYLLITE. Med. Grey Banded (as 281.1 - 305.0)													
		C.A.: 55 to 346'; 80 shear at 346.1'; 70 at 347'; 80 at 348';													
		45 at 350'; 40 shear at 352 - 353'; 50 at 353'; 60 at 354';	33/												
		20 shear at 355 - 356'; 60 at 358'; 75 shear at 359.5'; 75 at 361';	33.4		340.2	373.6									
		70 at 364'; multiple slips at 365 - 366' at 70; 70 to 370'; 60													
		at 371 - 373'; 40 slip contact with unit below.													
	117.5														
373.6	385.5	QUARTZ-SERICITE PHYLLITE. Altered, Grey-Buff to Buff													
		60% qtz. Banded, light grey ser with foliations of buff ser.													
		Many qtz veins. F1 mod developed Slips at 40° to core.	11.9/												
		C.A.: 60 to 380'; 70 to 383'; 75 - 85 at 385'; irregular shear	11.9		373.6	385.5									
		contact at 385.5'.													
	126.6														
385.5	415.5	QUARTZ-SERICITE-GRAPHIT$ PHYLLITE. Dark Grey													
		60 - 65% qtz, 3 - 10% graph, negl. py. Banded with mod. developed													
		F1. Zone highly sheared in many places, modest fracturing.	26.7/												
		C.A.: 70 to 396'; 55 - 60 at 397 - 399'; 75 - 80 to 405'; 70 to	30.0		385.5	415.5									
		410'; 75 - 80 to 415'.													

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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
	138.1 M														
415.5	453.3	MASSIVE SULPHIDES WITHIN QUARTZ-SERICITE-GRAPHITE PHYLLITES	5.7	990	415.5	422.0	6.5	6.68	11.05	3.09			43.42	71.825	20.085
		Massive py with PbZn and dissem py with PbZn in qtz-barite occur	6.0	991		428.0	6.0	5.60	10.25	2.50			33.6	61.50	15.00
		in bands with graphitic and sericitic phyllites.													
		415.5 - 418.7': pyritic + PbZn rich bands in qtz-ser, highly	3.7	992		432.3	4.3	.18	.62	.25					
		altered, partly brecciated, minor chl + fuschite;													
		40 py, 8 PbZn	3.1	993		436.2	3.9	2.78	5.88	1.47			10.842	22.932	5.733
		- 425.0': mass. py with very rich PbZn bands, slightly													
		porous. qtz-ser with brecc. sulphs at 420.1 -	5.0	994		441.7	5.5	4.65	8.94	2.47			25.575	49.17	13.585
		420.8; 50 - 70 py, 12 - 14 PbZn													
		- 428.0': mass py with qtzy bands - chalco, also buff ser,	5.5	995		447.2	5.5	4.80	10.16	2.71			26.40	55.88	14.905
		55 - 60 py, 8 - 9 PbZn													
		- 432.3': qtz-graph-sulphs, 3 py, 1-2 PbZn, highly fract.	6.0	996		453.3	6.1	5.94	11.82	3.03			36.234	72.102	18.483
		- 434.3': mass py, fract. crumbly, much carb or talc,									16.83			133.	
		part PbZn rich, 55 py, 8 PbZn.		W.Av.	415.5	428.0	12.5	6.16	10.67	2.81	wt.av.		77.02	325	35.085
		- 436.2': qtz-ser, buff, minor sulphs									15.52			177.	
		- 441.7': barite rich (30?%) sulphs, 25 py, 6-8 PbZn (?)		W.Av.	436.2	453.3	17.1	5.16	10.36	2.75	wt.av.		88.209	152	46.973
		- 453.3': mass. sulphs, barite rich bands, also sulph									14.25			200.	
		breccia, 60 - 70 py, 8 - 10 PbZn		W.Av.	432.3	453.3	21.0	4.72	9.53	2.51	wt.qv.		99.051	084	52.706
		C.A.: 65 - 70 to 427'; irregular contact at 428'; 45 at 429 - 431';													
		30 at 431.5'; 70 at 434'; 45 at 437'; 70 at 440 - 445'; 45 at 448';													
		40 at 451'; 65 at 453'; irregular slip contact at 453.3'.													
	153.M														
453.3	502.0	QUARTZ-GRAPHITE PHYLLITE. Altered	10.0/ 22.7		453.3	476.0									
		65% qtz. Med. grey qtzose and dark grey to black graph bands.	5.5/ 5.5			481.5									
		Fissile. Much shearing, also contorted, fractured.													
		C.A.: 30 at 453.5'; 20 at 458 - 462'; 45 - 50 at 463'; 65 - 70 to	7.0/ 14.5			496.0									
		475'; (core cove in chips and flakes from 468 - 476'); 85 - 80 at	6.0/												
		476.5'; 75 to 481'; 482 - 492 highly sheared, brecciated and	6.0			502.0									
		gouged, 70 - 75 at 495'; 60 at 497'; 40 at 498'; 70 at 499';													
		qtz vein contact at 502'.													

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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
	160.3m														
502.0	526.0	QUARTZ-SERICITE + GRAPHITE PHYLLITE. Med. Grey													
		60 65% qtz. Thinly laminated. 0 - 3% graph. Many small shears.													
		Local F1 mod. developed. C.A.: 75 at 505'; 70 to 509'; 70 shears at 509.2 - 510.5'; 70 - 75 - 80 to 519' (many slips); 70 at 521'; 40 shears at 522 - 524'; 60 at 524 - 526'.	22.7/ 24.0		502.0	526.0									
	165.2														
526.0	542.0	QUARTZ-SERICITE PHYLLITE													
		As 502 - 526' section without the graphite.													
		C.A.: 60 to 529'; 70 at 530'; shear at 530.5'; 75 at 532'; 50 at 534'; 65 at 538'; 75 at 539 - 542'.	16/16		526.0	542.0									
	169.m														
542.0	554.5	QUARTZ-SERICITE PHYLLITE. Bleached Buff. Minor Sulphides													
		65% qtz. Totally bleached, parts qtzy. Sheared at 547 - 548', talcy. Spotly sulphs, mainly py av. 0.3%. A few blobs rich PbZn at 544.7 - 548.0, 0.2 PbZn.	2.7/ 2.7		542.0	544.7									
			3.0	997		548.0	3.3	1.12	1.14	.35					
		C.A.: 45 at 543 - 544'; 75 at 545'; 65 at 546'; 85 at 548'; 75 at 549'; 80 at 553'; 35 - 40 slip contact at 554.5'.	4.8/ 6.8			554.8									
	176.m														
554.5	577.6	QUARTZ-SERICITE PHYLLITE. Med. Grey	3.2/ 3.5		554.5	558.0									
		45 - 50% qtz. Thinly foliated grey ser, fissile. Fault gouge at upper and lower contacts, also fault or shear gouge in several places. C.A.: Gouge at 554.8 - 555.3'; (shearing at 70 - 75°); 75 at 556'; 70 at 557'; gouge and brecciation at 559.5 - 560';	5.7/ 8.0			566.0									
			2.0/ 5.0			571.0									
			6.6/ 6.6			577.6									

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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
		70 at 561'; shear at 562.5 - 563'; 70 at 563 - 570'; 55 at 572'; 65 at 575'; shear at 575 - 575.5'; 70 at 576'; Fault gouge at 576.3 - 577.6'.													
	186.2														
577.6	611.0	SULPHIDE ZONE IN QUARTZ-SERICITE-GRAPHITE PHYLLITE. Sulphide Breccia.	4.6	998	577.6	582.2	4.6	3.08	4.26	1.32					
		Highly siliceous and hard. Qtz-sulph breccia, ranging from minute	4.8	999		587.0	4.8	.18	.45	.56			3.024 PbZn		
		size to 0.1', silicified within qtz-ser-graph matrix, often follow banding. Av. 25 - 35% py. Generally poor PbZn, above av.	9.0	1000		596.0	9.0	.27	.72	.32			8.91 PbZn		
		chalco Approx 5% ser + graph (minor). F2 folds. 577.6 - 582.2': some rich PbZn breccias, 8 PbZn, 0.2 Cu	5.0	1168		601.0	5.0	.49	.80	.35			6.45 PbZn		
		- 596.0': poor PbZn, 0.5% av, no rich spots, 0.2 Cu - 599.5': poor PbZn, 3 - 4 PbZn, 0.2 Cu	10.0	1169		611.0	10.0	.27	1.30	.29			15.70 PbZn.		
		- 611.0': poor PbZn, 0.5% PbZn, 0.1 Cu			582.2	611.0	28.8	1.18 PbZn	Wt. Av.				34.084 PbZn.		
		C.A.: 30 at 578'; 60 at 581'; 40 at 582'; 30 at 587 - 591.5'; 70 at 592'; 50 at 593.5'; 35 at 594'; 30 at 598'; 20 - 40 at 602 - 603'; 40 at 606'; 60 at 609'; 80 contact at 611.0'.													
	198.6														
611.0	651.6	QUARTZ-SERICITE PHYLLITE. Med. Grey (As 554.5 - 577.6')	5.0/ 6.0		611.0	617.0									
		C.A.: 80 - 85 to 615'; shear at 615'; 70 at 615.5'; 85 at 618';	1.5/ 7.0			624.0									
		75 at 625'; 65 at 627'; 60 - 65 to 645';	3.3/ 4.0			628.0									
		Note: Suspect not cored qtz-carb band between 619 - 624.5', likely minor py with few spots PbZn	15.6/ 23.6			651.6									

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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
	201.m														
651.6	660.0	QUARTZ-SERICITE PHYLLITE. Bleached, Minor Sulphides													
		Bleached to buff color, talcy, also much carb. 1 - 5% py, av. 2%, negl. PbZn. Much fracturing//core. C.A.: 55 at 653'; 70 at 655 - 659'.	6.4	1170	651.6	660.0	8.4	.53	.76	.26					
	213.2														
660.0	699.6	QUARTZ-SERICITE PHYLLITE. Med. to Dark Grey													
		65% qtz. Thinly laminated. Slightly altered to 686' (209). Minor fractures or cracks. A few shears in lower section. Fault at 660 - 661.5' (201.1, 201.6). C.A.: 70 - 75 to 673' (205.1); 70 to 682' (207.8); 60 to 684' (208.4); shear at 682.7 (60°) (208); 60 to 689' (210); 65 to 694' (211.5); 60 to 699' (213); shear at 697' at 40 to core (212).	38/ 39.6		660.0	699.6									
	223.9														
699.6	734.8	QUARTZ-SERICITE PHYLLITE. Altered Buff-Grey with Minor Sulphides													
		65 - 70% qtz. Thinly foliated light grey ser with minor buff ser foliations, also tan carb, F1 mod. developed at 700 - 709'. Negl. py PbZn except from 715.7 (216.1) - 724.3 (220.7) where 3 bands (0.4 - 1.3') pyrr rich (30%) sulphs contain up to 6% PbZn. Highly sericitic from 713 (213.6) - 723' (214.8, 216.4, 217.6). C.A.: 65 at 690' (210.3); 60 at 701'; 70 at 705'; 75 at 710'; 65 at 714'; 75 at 716' (218.2); 60 at 718' (218.8); 70 at 723' (220.3); 60 at 729' (222.2); 70 to 734' (223.7).	13.1/ 16.1		699.6	715.7									
			6.8	1171		724.3	8.6	1.43	1.36	.44					
			8.3/ 10.5			734.8									

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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
	226.m														
734.8	742.0	QUARTZ-SERICITE PHYLLITE. Light Grey													
		60% qtz. Thinly laminated. Fl poor. C.A. 65 - 70°.	6.6/ 7.2		734.8	742.0									
	233 m		10.0/												
742.0	765.0	QUARTZ-SERICITE-GRAPHITE PHYLLITE. Med to Dark Grey	10.0		742.0	752.0									
		60% qtz. Thinly laminated and banded. Local Fl poor. Graph in-	0.5/ 10.0			762.0									
		creas from 4% to 15% at 762' then to 40% in last foot. Fissile from 746 - 765'.	1.7/ 3.0			765.0									
		C.A.: 70 to 744' (226.7); F2 fold 744.3'; 65 at 745' (227.1); 75 to 765.0' (233.2).													
	237.3	S-Sb													
765.0	778.8	QUARTZ-SERICITE PHYLLITE Altered Buff-Grey													
		65% qtz. Thinly foliated med. grey ser with minor buff ser.													
		C.A.: 70 at 766' (233.4); 60 at 767'; 70 - 75 to 775' (236.2); highly contorted at 775 - 778' (237.1).			765.0										
			3.3/ 4.7		778.8	783.5									
	252.9	P.Sb													
778.8	829.9	QUARTZ-SERICITE PHYLLITE. Bleached Buff with Minor Sulphides	1.8/ 8.5			792.0									
		Ser bleached to buff color except two highly sheared and brecciated	1.3/5 4.9/5			797.0 802.0									
		bands at 792 - 797' (241.4 - 243) graphitic and schistose, also at 805.6 - 813.5' (237.4 - 244.4) brecciated and silicified grey phy with minor py, PbZn. 779 - 802 -	2.6/ 2.6			804.6									
		talcy and soft. 1 - 3 py, negl PbZn except between 804.6 - 805.8 (245.2 - 245.6) = 20 PbZn, at 805.8 - 813.5 = 0.5 PbZn, at 815.7 - 815.9 = 14 PbZn,	4.0 4.1	1172 1173	804.6 808.6	808.6 813.5	4.0 4.9	3.75 .04	4.50 .14	.94 .03		N/A			
		and at 819 - 819.4' (237.4) = 6 PbZn. 821.5 - 829.9 = 10 - 15 Py, no PbZn	2.0 10/10	1174	813.5 816.0	816.0 826.0	2.5	.06	.48	.72					
		C.A.: 65 at 779' (241); 80 at 782 - 791' (237.4); 65 - 70 at 792 - 797' (243); 65 to 800' (sheared) 70 - 75 to 802' (244.4) (sheared); 65 - 60 to 804' (245);	3.9	1175	826.0	829.9	3.9	.10	.14	.03					

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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
		F2 fold at 805' (rich Zn); 70 - 65 to 810' (246.8); 50 at 815.5'; 45 at 816 (248.7)													
	✓	45 - 25 at 819'; 40 at 821' (250.2); 30 at 822 - 829' (252.6); 70 (?) contact at 829.9.													
	262.1m														
829.9	860.0	MASSIVE SULPHIDES													
			5.9	1176	829.9	836.2	6.3	3.08	4.02	1.32			19.404	25.326	8.316
		Massive py (70 - 80% with med. or negl. PbZn bands, also mag.	4.2	1177		840.9	4.7	.68	1.12	.32					
	/	829.9 - 836.2' (254.8): sulph breccia in sulph matrix, 75 py, 1 mag. 8 PbZn	8.0	1178		848.9	8.0	1.98	1.36	.88			26.72 PbZn		
			6.3	1179		855.2	6.3	5.55	6.24	2.24			34.965	39.312	14.112
		- 840.9': mass. py, 75 py, 0.5 mag, minor PbZn, 0.3%	4.6	1180		860.0	4.8	1.95	2.46	.94			9.36	11.808	4.512
		- 848.9': mass. py, 80 py, 3 mag, 1 PbZn			836.2	837.8	1.6						1.088	1.792	.512
		- 855.2': mass sulph, 70 py, 1.5 mag, 9 PbZn			829.9	837.8	7.9	2.59	3.43	1.12			20.492	27.118	8.828
		- 858.0': mass sulph, 75 py, 3 mag, 1 PbZn			837.8	840.9	3.1							5.58 PbZn	
		- 859.5': mass sulph, 70 py, no mag. 11 PbZn			837.8	848.9	11.1	2.90 PbZn						32.3 PbZn	
		- 860.0': mass sulph + qtz-ser, no mag. 6 PbZn			848.9	860.0	11.1	3.99	4.61	1.68			44.325	51.12	18.624
		C.A.: 40 - 45 at 837' (255); 55 at 841' (256.3); 40 at 845'; 60 at 850'; 50 at 853' (259.9); 55 at 859' (261.8).													
	267.m														
860.0	876.0	QUARTZ-SERICITE PHYLLITE. Sb Bleached Buff													
		60% qtz. Thinly foliated. Highly sheared from 860 (262.1) - 865' (263.6), soft	8.0/ 9.5		860.0	869.5									
		and talcy, + negl. py. 865 - 876 - rock firm. 3 - 4 py, spots PbZn noted.	3.3/ 6.5			876.0									
		C.A.: 20 at 860 - 862' (264); 75 at 864'; 65 at 866' (264); 50 at 867'; F2 fold at 870.5'; 35 at 873' (266); 50 at 876' (267).													

DIAMOND DRILL RECORD

LOGGED BY _____

PROPERTY _____

D.D.H. No. A - 62 PAGE 11 of 13

LATITUDE _____ BEARING OF HOLE _____ STARTED _____

DEPARTURE _____ DIP OF HOLE _____ COMPLETED _____

ELEVATION _____ DIP TESTS _____ DEPTH Proposed: Ultimate: _____

CLAIM No. _____

DIRECTION AND DISTANCE FROM 1400 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
	269.7m														
876.0	885.0	QUARTZ-SERICITE ± GRAPHITE PHYLLITE. Med. Grey													
		70% qtz. Banded, siliceous and hard but show many fractures.	2.0	1181	876.0	882.6	6.6	.68	.78	.38					
		876 - 882.6' - 12% py, 2 PbZn, 0.3 Cu. Recovery poor.	0.8/												
		C.A.: 70 at 878'; 40 at 881'.	2.4			885.0									
	273.1m														
885.0	896.0	QUARTZ-SERICITE PHYLLITE. Bleached Buff (as 860 - 876')													
		2 - 3 py, no PbZn noted.	3.5/ 11.0		885.0	896.0									
	280.8														
896.0	921.5	QUARTZ-SERICITE-CHLORITE PHYLLITE WITH ABUNDANT CARBONATE (CALCITE?)													
		35% qtz, 55 - 60 ser + calc, 5 - 10 chl. White ser and calc., dull	5.8/ 8.0		896.0	904.0									
		green chl. Greyish white qtz-calc-ser bands with wary threads chl.	1.4/												
		F1 poorly developed. Rock soft and soapy but fairly firm.	3.5			907.5									
		904 - 912': Minute grains pyrr and py, about 2% combined.	4.8/												
		Scattered blebs and splashes chalco - 0.06 Cu, also minor amount	5.5			913.0									
		PbZn - 0.15%	8.2/												
		C.A.: 50 at 896'; 70 at 898'; 75 at 897'; shear 50 at 900.8';	8.5			921.5									
		40 at 900.2'; 70 at 904'; 60 at 908'; 70 at 910'; 65 at 917'; 50 at 921'; shear contact at 921.5'.													

DIAMOND DRILL RECORD

LOGGED BY _____

PROPERTY _____

D.D.H. No. A - 62 PAGE 12 of 13

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
	290.7m														
921.5	954.0	QUARTZ-SERICITE-BIOTITE PHYLLITE. Bleached with Minor Sulphides													
		60% qtz, 3 - 5% brown mica confined within 926 (282.2) - 946.5' (288.5). Color													
		buff with brown bands or streaks. Overall, 2 - 3% py, but bands	28.7/ 29.5		921.5	951.0									
		up to 0.4' contain up to 35% py. Odd spot pyrr, splashes chalco here and there. The best PbZn mineralization occur at 922 (281) - 935' (285)													
		and 941.7 (287) - 952.6 (290.3), approx 0.25% PbZn.	1.1/ 3.0			954.0									
		C.A.: 55 at 922 - 925'; 70 at 926 (282.2) - 930'; shear 40 at 931'; 50 at													
		932'; 40 at 934' (284.6); 50 at 938' (286); 60 at 941 (283.4) - 947' (288.6); 65 at 948 (283.7) - 953' (290.4).													
	295.2														
954.0	968.7	QUARTZ-SERICITE ± GRAPHITE PHYLLITE. Med. and Dark and Black													
		60% qtz. Banded in sericitic sections and thinly foliated in graph	1.2/ 3.5		954.0	957.5									
		sections. Graphitic phy very fissile.	0.9/ 4.5			962.0									
		290.7 954.0 - 957.0' (291.7): fault with gouge, light grey sericite													
		- 963.5' (293.6): graphitic, highly sheared.	5.1/ 6.7			968.7									
		294.9 967.5 - 968.5' (295.2): fault? gouge and brecciated													
		C.A.: 40 at 956' (291.4); 50 at 958' (292); 85 at 962' (293.2); 85 - 80 to 968' (295).													
	298.8														
968.7	980.6	SULPHIDE ZONE IN QUARTZ-SERICITE PHYLLITE													
		60 - 70% qtz, highly siliceous to 977.7. Light grey ser. Banded	3.3	1182	968.7	972.3	3.6	.23	.24	.24	] Oil				
		pyritic sulphs with bands ZnPb rich bands. Main PbZn section at													
		972.3 -977.7 - 25 Py, 8 - 10 PbZn, 0.2 Cu; chiefly py with minor	5.2	1183		977.7	5.4	2.50	1.38	1.03	] Plot				
		Cu at 968.7 - 972.3 - 30 Py, 0.2 PbZn, 0.1 Cu; sulph breccia and													
		sericitic phy at 977.7 (298) - 980.6 - 30 py, 0.1 PbZn	2.8	1184		980.6	2.9	.27	.62	.24	] .9				
		C.A.: 90 - 80 at 969' (295); 80 - 75 to 977' (297.7); 75 at 980' (298.7).													

DIAMOND DRILL RECORD

LOGGED BY _____

PROPERTY _____

D.D.H. No. A - 62 PAGE 13 of 13

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
980.6	300.8m 987.0	QUARTZ-SERICITE PHYLLITE. Med Grey													
		Thinly foliated, no sulphs. C.A.: 70°.	5.2/ 7.0		980.6	987.0									
987.0	301.1m 988.0	QUARTZ-SERICITE-BIOTITE													
		55% qtz. 25 ser, 20 bio. Thinly foliated. Buff ser and med. brown mica. C.A.: 75 - 80°.	1/1		987.0	988.0									
	301.1m 988.0	END OF HOLE													
		Remarks:													
	1.	D.D.H. #A-62 was originally collared at L70W/2 + 00 W, hole was drilled to a depth of 57' when the tricone drill but broke off; therefore the D.D.H. was re-collared at L70W/1 + 96W.													
	2.	Hole was to be drilled 15 - 20' past last sulph intersection but was stuck 2' off bottom and hole was reported to be tightening up due to caving from above. Decided to stop hole. Rods freed later													
	3.	First drill hole in which PbZn Cu was found to occur in phyllites (921.5 - 954.0) containing appreciable amounts of biotite.													
	4.	Lowest mineralized zone was projected to be the barite rich horizon extend in from D.D.H. #A-22. No barite was noted.													

NOVEMBER

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

JANUARY

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

MEMORANDA

A6-3 Dec. 17/75

(1) change in Division to plot (drafting)

(2) Error in Sample L. #1260 (=7.8')

(3) 1 New wt. in. division.

DIAMOND DRILL RECORD

LOGGED BY Stanley Reamsbottom

PROPERTY Vangorda - "Champ" Zone - Kerr Addison - AEX - Joint Venture

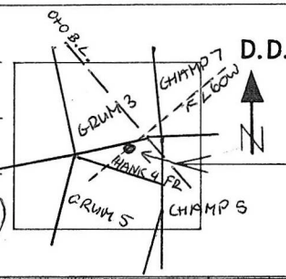
D.D.H. No. A - 63 PAGE 1 of 6

LATITUDE 10 314.44 N | 400S BEARING OF HOLE ____ STARTED Dec. 3/74 D.S.

DEPARTURE 7744.20 E | 60W DIP OF HOLE - 90° COMPLETED Dec. 9/74 D.S.

ELEVATION 658 P.A. Topog. 4131 A.S.L. (1271.27m) DIP TESTS 0-70' - BW HOLE SIZE:70-591' - BQ

DEPTH Proposed: 560' Ultimate: 591' (180.14m)



CLAIM No. HANK 4 FR.

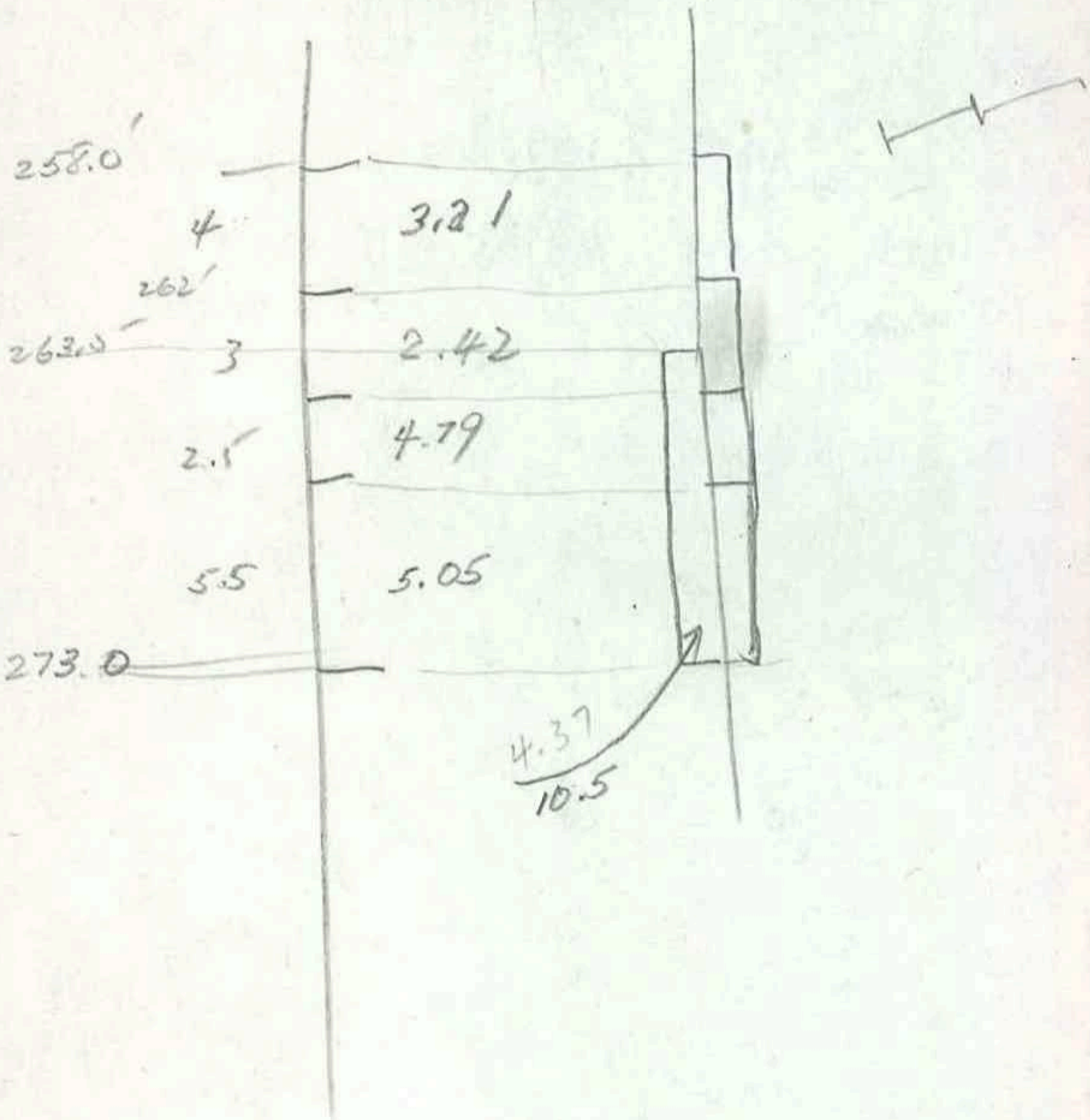
D.D.H #A-63

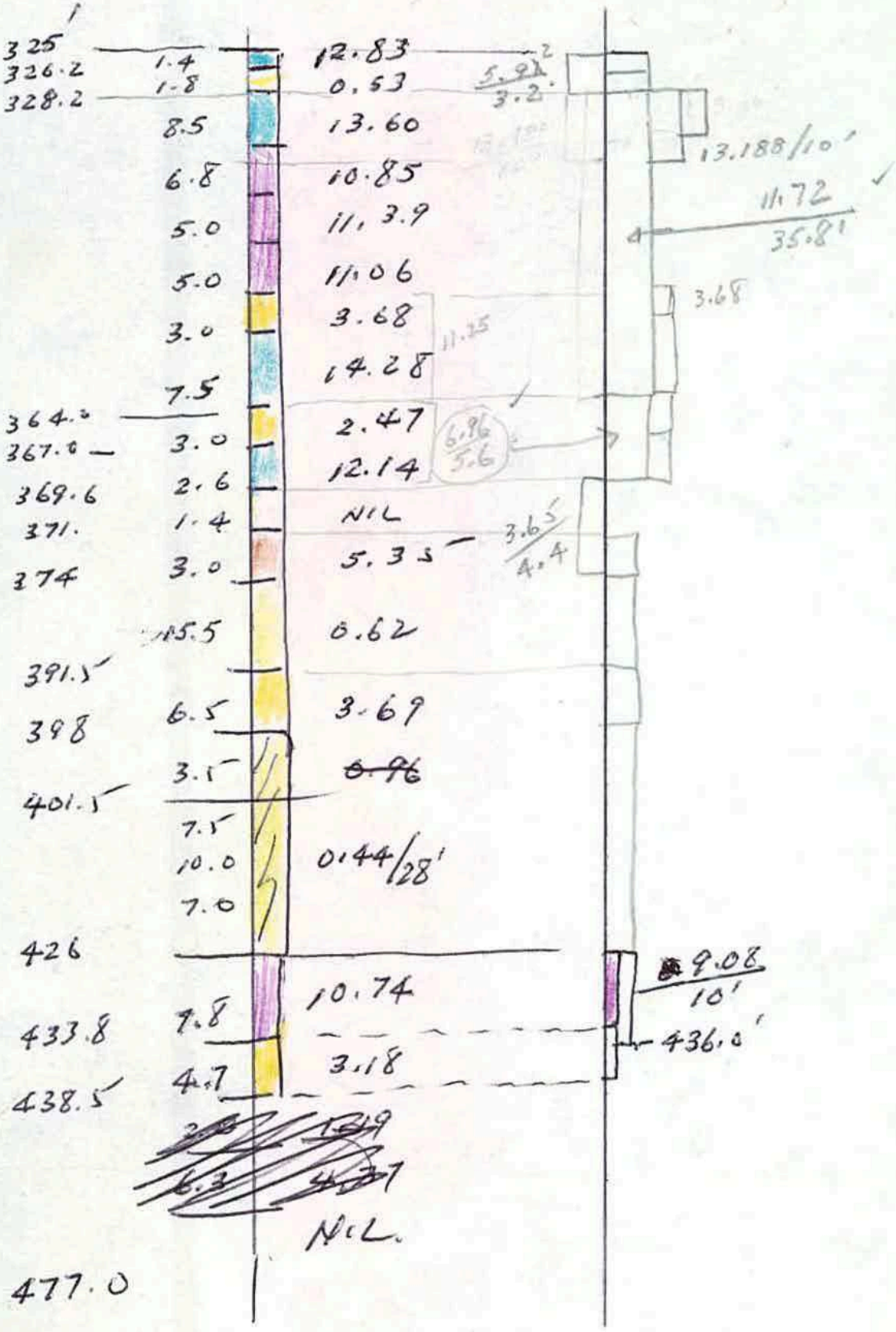
~~DIRECTION AND DISTANCE FROM~~

~~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	67 (20.4)	Overburden	Nil		0	67									
67	174 (53.0)	BLACK STRIPED GRAPHITIC PHYLLITE, with thin zones of grey green	1/1		67	68									
		sericite-chlorite phyllite (ex 99-101). Pervasive F_2, F_1 defined	78/85		68	153									
		by quartzo-feldspathic laminae, these locally subvert. Minor	1/5		153	158									
		blebs of pyrite, pyrrhotite.	15/16		158	174									
		C.A. 50=35; 80=63; 100=60; 120=70; 140=76; 150=75; 160=66;170=58													
174	220 (67.1)	GREY QUARTZ SERICITE CHLORITE PHYLLITE with minor carbonite.	3/7		174	181									
		Note zones of mottled CHLORITE, SERICITE, CARBONITE, PHYLLITE	35/39		181	220									
		ex 208-17'. Thinly (2 mm) laminated, quartzo-feldspathic													
		laminae alternate with micaceous. Rocks possibly slightly													
		altered. Minor pyrrhotite blebs.													
		C.A.: 180=53; 190=70; 200=60; 210=$F_1$50,F_2=76; 220=70													
220	258 (78.6)	BLACK STRIPED GRAPHITIC PHYLLITE - local fault breccia ex 225.5	8/10		220	230									
		small-scale,Minor pyrite, as pyrite at 235' also at 241';	2/6		230	236									
		quartz veins: blebs pyrite, pyrrhotite at 255.5'	21/22		236	258									
		C.A.: 230=61; 240=70													
258	273 (63.2m)	MASSIVE BANDED PYRITIC SULPHIDE: Fine grained Pyrite, magnetite	4/4	1230	258	262	4	1.73	1.48	.77			6.92	5.92	3.08
		(1-2%) with lesser orange sphalerite ± galena, magnetic. Quartz	3/3	1231	262	265	3	1.40	1.02	.74			4.20	3.06	2.22
		gauge with local pale sericite. 60-70% pyrite 3-6 Lead Zinc.	2.5/2.5	1232	265	267.5	2.5	2.15	2.64	.88			5.375	6.6	2.2
		Note sulphide folded into small-scale F_2 folds. Last 8'	1.5/5.5	1233	267.5	273	5.5	3.15	1.90	1.21			17.325	10.45	6.665
		sericite rich: pyrite sphalerite 8% Lead Zinc			265.0	273	8.0	2.84	2.13	1.11	Wt. Av.		22.700	17.05	8.855 — plot
					263.0	273	10.0	2.55	1.91	1.03	Wt. Av.		25.50	19.09	10.335 — plot
		C.A.: 260=65; 270=76.			262.0	273	11.0	2.29	1.71	.97	Wt. Av.		29.56	22.048	12.481 — ×
273	315 (96.0)	SULPHIDE ZONE IN STRIPED QUARTZ-FELDSPAR DARK GREY GRAPHITIC			258.0	265.0	7.0	1.59	1.28	.76	" "		11.12	8.98	5.30 — plot
			10/10	1234	273	283	10	.37	.32	.29			6.90	Pb2n	
		PHYLLITE. 30-40% pyrite in F_1 layers (0.5-1 cm). Also	10/10	1235	283	293	10	.15	.12	.15			2.70	"	
		vextallized in F_2 to lesser degree. Minor sphalerite with	3/3	1236	293	296	3	.37	.29	.44			1.98	"	
		chalcopyrite in tension gashes. Grade 2-3% Lead Zinc possibly	10/10	1237	296	306	10	.18	.15	.15			3.30	"	
		less.	9/9	1238	306	315	9	.14	.27	.15			3.69	"	

re-crystallized


258.0
4
3.21
262
263.0
3
2.42
4.79
2.5
5.5
5.05
273.0
4.37
10.5


325
326.2
328.2
1.4
1.8
8.5
6.8
5.0
5.0
3.0
7.5
364.0
367.0
3.0
369.6
2.6
371.
1.4
374
3.0
15.5
391.5
398
6.5
3.1
401.5
7.5
10.0
7.0
426
7.8
433.8
4.7
438.5
12.83
0.53
13.60
10.85
11.39
11.06
3.68
14.28
2.47
12.14
NIL
5.35
0.62
3.69
0.96
0.44/28'
10.74
3.18
NIL.
477.0
5.9
3.2
13.188/10'
11.72
35.8'
3.68
11.25
6.96
5.6
3.65
4.4
9.08
10'
436.0'

DIAMOND DRILL RECORD

LOGGED BY _____

PROPERTY _____

D.D.H. No. A - 63 PAGE 2 of 6

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	
		#1234 - Striped, mineralized green quartz phyllite: 15% pyrite 2 Lead Zinc (CA 280 $F_2$65, F_1 SV)														
		#1235 as 1234 CA 290'=$F_2$55, F_1 SV														
		#1236 - Mineralized striped quartz-feldspar graph phyllite: 25-30 pyrite; 2-4 Lead Zinc: obvious sphalerite minor chalcopyrite														
		#1237 - Mineralized gr phyllite, minor pale sericite phyllite 15-20 pyrite: 2 Lead Zinc or less. C.A. 300'=65.														
		#1238 - Mineralized striped dark grey quartz-graph phyllite: 20% pyrite Minor chalcopyrite: up to 2 Lead Zinc C.A. 310=71														
96.0	99.1															
315	325	SULPHIDE ZONE in PALE QUARTZ-SERICITE-PHYLLITE: 30-50% banded	2/2	1239	315	317	2	.10	.38	.10			.96	Pb2n		
		pyrite with brown-purplish sphalerite, minor magnetite (up to 1%)	6/6	1240	317	323	6	.50	1.10	.29			9.60	"		
		chalcopyrite. Note green mariposite in phyllite. Some quartz	2/2	1241	323	325	2	.47	1.38	.26			3.70	"		
		veins with courser sphalerite and galena			273.0	317.0	44.0	.44	Pb2n		Wt. Av		19.53	"		plot
		#1239 - Mineralized sericite chlorite mariposite phyllite: 20 pyrite: 3-4 Lead Zinc			317.0	325.0	8.0	1.66	"		Wt Av		13.30	"		plot
		#1240 - Mineralize quartz sericite phyllite: 40-50 pyrite, 1 magnetite, 8-10 Lead Zinc.														
		#1241 - Weak mineralized quartz chalcopyrite sericite phyllite. 1 Lead Zinc C.A. 320' = 75°														
	114.6															
325	376	MASSIVE PYRITIC SULPHIDE WITH WHITE BARITE: 60-75% Pyrite:	14/14	1242	325	326.4	1.4	5.63	7.20	1.82			7.88	10.08	2.55	
		sulphide banded, local F_2 folds ex 335' Fine grained orange	18/18	1243	326.4	328.2	1.8	.05	.48	.06			.09	.86	.11	plot
		sphalerite, minor chalcopyrite, galena present but not too	85/85	1244	328.2	336.7	8.5	5.70	7.90	2.15			48.45	67.15	18.27	
		obvious. Some massive sections quite porous.	6.8/6.8	1245	336.7	343.5	6.8	4.13	6.72	2.03			28.08	45.69	13.80	
		#1242 - Massive banded pyrite sulphite: pyrite, sphalerite,	5/5	1246	343.5	348.5	5.0	4.43	6.96	1.91			22.15	34.80	9.55	
		galena, 8-12 Lead Zinc	5/5	1247	348.5	353.5	5.0	4.58	6.48	2.00			22.90	32.40	10.00	
		#1243 - Barren sericite, phyllite	3/3	1248	353.5	356.5	3.0	1.68	2.00	.83			5.04	6.00	2.49	plot
		#1244 - Massive, banded, folded pyrite sulphite: 75% pyrite, barite, orange sphalerite, galena: 8-12% Lead Zinc	35/75	1249	356.5	364	7.5	5.33	8.95	2.09			39.97	67.12	15.67	
			3/3	1250	364	367	3.0	.87	1.60	.29			2.61	4.80	0.87	
					325.0	328.2	3.2	2.50	3.42	.83	Wt Av	(28.59m)	7.97	10.94	2.66	plot
					328.2	364.0	35.8	4.65	7.07	1.95	Wt Av.		166.59	253.16	69.78	plot

DIAMOND DRILL RECORD

LOGGED BY _____

PROPERTY _____

LATITUDE _____ BEARING OF HOLE _____ STARTED _____

DEPARTURE _____ DIP OF HOLE _____ COMPLETED _____

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

D.D.H. No. A - 63 PAGE 3 of 6

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
		C.A. 330' = 70°	~~2.6/2.6~~ ~~36/36~~	1251	367	369.6	~~3.6~~	4.58	7.56	1.71			~~11.91~~ ~~16.49~~	~~19.66~~ ~~27.22~~	~~4.45~~ ~~6.16~~ plot
		#1245 - Massive, pyrite barite, with orange sphalerite, 50 pyrite: 8-12 Lead Zinc C.A. 340' = 75°	/14 3/3	1252	369.6 371	371 374	3.0	1.93	3.42	.80					plot
		#1246 - Massive pyrite as 1245 8-12 Lead Zinc #1247 - Massive pyrite as 1245 8-12 Lead Zinc		—	374	376	—	Barren chlorite-sericite phyllite							
		#1248 - Massive pyrite sulphite: buff carbonite pyrite? 70 pyrite: 8 Lead Zinc		wt. AV.	364.0	~~369.6~~	~~5.6~~	~~2.59~~ ~~2.89~~	~~4.37~~ ~~4.85~~	~~0.95~~ ~~1.06~~	(32.5 oz/t) ✓		~~14.52~~ ~~19.10~~	~~24.46~~ ~~32.02~~	~~5.32~~ ~~7.03~~ plot
		#1249 - Massive pyrite sulphite: porous: 70 pyrite; barite; 8-12 Lead Zinc													
		#1250 - Weak mineralized chlorite-sericite phyllite C.A. 370' = 68°													
		#1251 - Massive banded, pyrite, barite sulphide 8-12 Lead Zinc #1252 - Banded pyrite, sphalerite phyllite 30 pyrite: 8 Lead Zinc													
376 114.6	391.5 119.3	Sulphide Zone in white QUARTZ-SERICITE PHYLLITE with lesser STRIPED QUARTZ-GRAPH PHYLLITE. 30-50 pyrite in phyllite. P.Sg	9/9 65/65	1253 1254	376 385	385 391.5	9 6.5	.20 .15	.40 .55	.18 .15			5.40 4.55	Pb2n "	
		Minor chalcopyrite lesser sphalerite 2% Lead Zinc or less. Minor marcasite, pyrrhotite.			376.0	391.5	15.5	.62	Pb2n		wt. AV		9.95	"	plot
		#1253 - Banded, mineralized, graph and sericite phyllite 30% pyrite, pyrrhotite, marcasite, minor chalcopyrite 1-2 Lead Zinc													
		#1254 - As above more zinc: 2-3 Lead Zinc M, A & Sg													
391.5	401.5 (122.4)	BRECCIATED MASS SULPHIDE (SPHALERITE RICH), SERICITE AND GRAPH PHYLLITE FRAGMENTS AND MATRIX.	65/65	1255	391.5	398	6.5	1.23	2.46	.59					plot
		Fragments of banded pyritic, sphaleritic sulphide; graph and sericite phyllite in ground up phyllite matrix (compact) cut by vein of barite. 20-30% pyrite: 8 Lead Zinc possibly more	35/35	1256	398	401.5	3.5	.27	.69	.24			3.36	Pb2n	
		#1255 - Breccia with sphalerite rich sulphide fragments 8 Lead Zinc													
		#1256 - As above less sphalerite													

DIAMOND DRILL RECORD

LOGGED BY Stanley Reamsbottom

PROPERTY

LATITUDE | BEARING OF HOLE | STARTED

DEPARTURE | DIP OF HOLE | COMPLETED

ELEVATION | DIP TESTS | DEPTH Proposed: Ultimate:

D.D.H. No. A - 63 PAGE 4 of 6

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
128.4	129.8														
401.5	426	SULPHIDE ZONE IN QUARTZ-GRAPH STRIPED PHYLLITES. With minor QUARTZ-SERICITE PHYLLITE: Phyllite has ribbon texture. 25-30 pyrite. Mineralization concentrated in F_1 layers mainly. 2% Lead Zinc or less. Blebs of chalcopyrite, some concentrate in tension gashes. F_2 fold at 408', Breccia at 411-13'	75/75	1257	401.5	409	7.5	.10	.29	.10			2.92	Pb2n	
			10/10	1258	409	419	10	.09	.31	.04			4.00	"	
			7/7	1259	419	426	7	.08	.23	.03			2.17	"	
		#1257 - Mineralization ribbon quartz-graph phyllite 25% pyrite, 1-2 Lead Zinc			398.0	426.0	28.0	0.44	Pb2n		Wt. Av		12.45	Pb2n	
		#1258 - Mineralization quartz-graph phyllite. Breccia at 411-13; 20 Pyrite, pyrrhotite, marcazite, chalcopyrite 1-2 Lead Zinc													
		#1259 - Mineralization striped ribbon graph phyllite 20 pyrite, pyrrhotite, chalcopyrite 1-2 Lead Zinc C.A. 410 = 80; 420 = $F_2$71, $F_1$40													
426	433.8	GRADES THRO MINERALIZATION PHYLLITE (SPHALERITE RICH) to MASSIVE PYRITE SULPHIDE, with white BARITE 75-80 pyrite; barite; sphalerite; 1% magnetite; massive pyrite porous texture 8-12% Lead Zinc C.A. 430 = 68	7 7 68/68	1260	426	433.8	7.8	4.50	6.24	1.71			35.10	48.672	13.338
				Wt. Av	426.0	436.0	10.0	3.82	5.26	1.44	(49.5)		38.18	52.588	14.438
					(433.8	436.0)	(2.2)						3.08	3.916	1.1
433.8	438.5	GREY-WHITE SERICITE PHYLLITE with bands of massive pyrite with magnetite 2%, chalcopyrite; dark brown sphalerite; 3-4 Lead Zinc	4.7/4.7	1261	433.8	438.5	4.7	1.40	1.78	.50			6.58	8.37	2.35
	133.6				426.0	438.5	11.5	3.23	4.42	1.21	Wt Av.		37.18	50.80	13.98
438.5	145.4 477	GREY STRIPED QUARTZ-SERICITE PHYLLITE, which looks bleached and altered. (Minor biotite at 441). Local white quartz-sericite units. Many tension gashes filled with white carbonite, or barite. Quite graphitic at 475'. C.A. 440 = 66; 450 = 85; 460 = 82; 470 = 79	37/39.5		438.5	477									
477	147.9 485.3	WHITE-GREEN QUARTZ-SERICITE-CHLORITE PHYLLITE WITH BANDS OF MASSIVE PYRITE WITH 1% BLACK MAGNETITE, DARK BROWN SPHALERITE, MINOR CHALCOPYRITE in tension gashes. 4-6% Lead Zinc. Note Sulphide breccia in last 2'. C.A. 480 = 70	2/2	1265	477	479	2.0	.44	.75	.18					
			63/63	1262	479	485.3	6.3	2.15	2.22	.74			13.545	13.986	4.662
					478.3	485.3	7.0	1.98	2.07	.68	Wt. Av		13.853	14.511	4.788

DIAMOND DRILL RECORD

LOGGED BY Stanley Reamsbottom / Fred 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	
147.9	153.9	P-g														
485.3	505	SULPHIDE ZONE IN STRIPED QUARTZ-GRAPH PHYLLITE. 15-20% Pyrite concentrate in F_1 laminae (1-2 cm) in places. Thin bands of more massive pyrite (ex 493-96) Minor pyrrhotite, chalcopyrite. 1 - Lead Zinc; STRIPED-RIBBON TEXTURE C.A. 490 = 75; 500 = 75, small-scale F_2 folds. Last foot pyrite breccia in quartz-carbonate.	9.7/9.7	1263	485.3	495	9.7	.15	.17	.15			3.10	Pb2n		
			10/10	1264	495	505	10	.27	.39	.20			6.60	"		
					485.3	505.0	19.7	.49	Pb2n		Wt.Av	✓	9.70	"		plot
		P+M														
505	583.1	SULPHIDE ZONE in siliceous quartz-sericite phyllite ± graphite. Highly siliceous rocks containing variable but small amounts of phyllites and hard tan colored mineral. Sulphide content varies abruptly. Magnetite generally associated with higher sulphide sections, particularly Lead Zinc mineralizations Splashes chalco notable.	7.6	1266	505	513.7	8.7	2.20	2.40	.97			19.14	20.88	8.439	plot
	177.7						(1.3)						.169	.286	.13	
			8.2	1267		522	8.3	.13	.22	.10						plot
			8.4	1268		530.4	8.4	1.88	1.66	.77			29.23	Pb2n		
		Barren, narrow (.05 - .3') bands of bleached buff sericite phylite common throughout zone. Tan colored mineral and quartz-feldspar often appear as fragments, or fractured, or brecciated.	5.5	1269		536.1	5.7	1.10	1.40	.59			14.25	"		
		505.0 - 509.0 - 40-45 Pyrite, 8 Lead Zinc, 0.7 magnetite; 0.3' buff sericite, fragments of tan mineral.	4.7	1270		541.0	4.9	1.65	1.62	.74			16.02	"		
		509.7 - black graphite and buff sericite and quartz vein. No sulphides	5.4	1271		546.4	5.4	1.85	1.56	.83			18.41	"		
					522.0	546.4	24.4	3.19	Pb2n		Wt.Av.	✓	77.91	Pb2n		plot
		513.5 - Massive pyrite - 75-80%, 8 Lead Zinc, no magnetite	2.7	1272		549.1	2.7	.23	.25	.18						plot
		522.6 - Banded, light grey quartz-sericite sulphides, 15-20 pyrite, 0.6 Lead Zinc, 0.1 Copper	3.6	1273		552.7	3.6	4.65	5.22	1.62			16.74	18.792	5.832	plot
		530.4 - as 505.0 - 509.0 30 Pyrite, 8 Lead Zinc, 4 magnetite, 0.2 copper. Also fragments magnetite at end.	3.0	1274		555.7	3.0	.12	.13	.10			.36	.39	.30	plot
			8.3	1275		564.0	8.3	1.70	2.58	.68			14.11	21.414	5.644	
		531.9 - Pyrite breccia cemented, also loosely held in sericite-carbonite, 30 pyrite, negligible Lead Zinc	4.2	1276		568.3	4.3	.17	.40	.15			2.45	Pb2n		
		549.1 - as 505-509, many bands buff sericite, also grey sericite fragments and fragmented tan mineral and quartz-feldspar, 15-35 pyrite, 0.3 - 7	9.5	1277		578.0	9.7	.05	.10	.04			1.45	"		
			5.1	1278		583.1	5.1	.07	.12	.06			.97	"		
					564.0	583.1	19.1	.25	Pb2n		Wt.Av		4.87	Pb2n		

DIAMOND DRILL RECORD

LOGGED BY Fred 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
		Lead Zinc, 0-0.2 magnetite, negligible 0.1 Copper		wt Av	505.0	515.0	10.0	1.93	2.12	.86			19309	21166	8569
		552.4 - 30 Pyrite, 8 Lead Zinc, 0.05 Magnetite, 0.05 Copper. As 505-509		Wt Av	549.1	564.0	14.9	2.09	2.72	.79	✓		31.21	40596	11.776
		557.6 - 20 Pyrite, 0.2 Lead Zinc, 0.1 Copper. Fragmented quartz-feldspar, minor grey sericite threads		wt Av	503.7	513.7	10.0	1.95	2.14	0.87	(29.89 Au)				
		559.4 - Massive pyrite (90%), tan mineral fragments, 1% magnetite, negligible Lead Zinc													
		564.0 - as 552.4-557.6; 15 Pyrite, 9 Lead Zinc; 0.2 Copper, no magnetite.													
		583.1 - as 513.5-522.6; 15-20 pyrite, 0.2 - 0.8 Lead Zinc; .05-0.2 Copper, no magnetite and F_1 poorly developed. F_2 mineral mainly.													
		C.A. 75° to 509', 70° to 516', 75° to 528', 70° at 532', 75-70° to 573', 60° to 579', 75° to 583', contact at 583.1' at 75°													
583.1 (177.7)	591.0 (180.1)	Quartz-Sericite-Graph Phyllite. Dark Grey to Black. 55-60% quartz, 25-30 sericite, 20-25 graph; becomes more graphitic at end. Thinly foliated, sheared at many places, moderately fractured. Minor pyrite, no Lead Zinc noted.	36/39 16/40		583.1	587.0 591.0									
	591.0	END OF HOLE													

plot

plot

DIAMOND DRILL RECORD

LOGGED BY Stanley Reamsbottom / Fred Chow

PROPERTY Vangorda Grum Zone, Kerr Addison - AEX - Joint Venture

D.D.H. No. A - 64 PAGE 1 of 3

LATITUDE 11589.36 N | 8+00N BEARING OF HOLE Sperry Sun Survey see page 2 deepened log NOT 1 of 6 STARTED Dec. 5/74

DEPARTURE 6945.43 E | 108W DIP OF HOLE - 90° COMPLETED Temporarily stopped Dec 12/74

ELEVATION 769' P.A. Topog. 4243' A.S.L. (1305.76m) DIP TESTS 0 - 70' - BW HOLE SIZE: 70 - 551' - BQ DEPTH Proposed: 1350' Ultimate: temporarily stopped at 551' - to be continued in 1975 (432.21m)

CLAIM No. CHUCK 6

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
	3.35M														
0	11	Overburden													
11	223	GREY, STRIPED QUARTZ-SERICITE PHYLLITE. Excellent F_1, F_2 laminae, rock micaceous, many quartz veins. Blebs of pyrite, (minor pyrrhotite) throughout F_1 locally subvert (F_2 fold roses) Small late kink-banks. Note possible white carbonite (soft) in thin F_1 laminae. (Micaceous from 180 onwards). 208-9 muddy: C.A. 20 = 75, 40 = 80, F_1 sub vert; 60 = 70 F_1 sub vert; 80 = 76; Kink band; 100 = 65°; 120 = 65°; 140 = 85°; 160 = 82°; 180 = 85°; F_1 S.V. 200 = 70; 220 = 79	69/86		11	97									
	67.9		70/72		97	169									
			39/54		169	223									
		HOLE BEING REDRILLED FROM 73' ONWARDS													
205 62.5	223 67.9	Between these footages, 1st hole core recovery = 36%, 2nd hole = 51%. The 1st hole indicates a fault or shear between 208-209' from the sand and rock chips recovered. The remaining core recovered showed fractures but no evidence suggesting shearing or faulting.													
		The 2nd hole suggested shearing between about 205-213', and clearly showed a fault and shear between 216.8-about 223'.													
		Combining the evidence from the core recovered from the two drill holes, the core log is as follows: 205-210' - soft shear zone or fault -216.8 -highly fractured light grey sericite phyllite with interbanded dark grey sericity phyllite, much quartz-carbonite veining and filling. 216.8-223'-fault breccia, gouge and sheared rock, shearing at 20°, also angle at upper border (216.8')													
223	298 90.8	QUARTZ-SERICITE PHYLLITE; light grey, striped (as - 223')													

DIAMOND DRILL RECORD

LOGGED BY Fred 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
		Numerous quartz veins, 5-10% of core, locally 15-25% of core.													
		Many small shears and fractures to 258'; thereafter, much less.	3.8/6		223	229									
		223 - 228.5' - much shearing parallel banding, brecciated parts	3.3/4			233									
		contains re-crystallized pyrite crystals	9/9			242									
		228.5 - 233' - Fault Breccia, partly re-cemented	53/56			298									
		C.A. 70° to 237', 75° at 238', 70° at 239', 50° at 240'-242',													
		60° at 244', 70-75° to 258', 75° to 274', F_1 well developed,													
		also F_1 at 257-268', 70-75° shears at 275.5' - 277.5-279													
		(with gouge), 70° at 277-278', 80° to 289', slip at 290', 40° at													
		291', 80-75° at 292-306'													
298	312	QUARTZ-SERICITE-GRAPH PHYLLITE. Light and medium grey.	13.8/												
90.8	95.1	Similar to rocks above 298' but with 1-3% graphitic phyllite.	14		298	312									
		F_1 moderately developed													
		C.A. 70°													
312	488	QUARTZ-SERICITE PHYLLITE. Light to moderate grey.													
	148.7	Similar to 21 to 298' but slight darker grey sericite. Approx.	64/66		312	378									
		55% quartz. F_1 moderate to well developed.													
		312 - 329' - well banded with prominent F_1. Minor tension	30/30			408									
		cracks, quartz-carbonate filled and partly leached. No													
		quartz veins - odd cubic pyrite, odd pyrrhotite	84/10			418									
		bleb (very magnetic)	18.8/												
		329 - 373' - many quartz veins, some with chlorite bands or	19.5			437.5									
		clots													
		373 - 374.8 - massive pale grey sericite phyllite	29/45			442									
		450 - 463.5 - well banded with prominent F_1. Minor shear at													
		410.5' at 40°	4.8/6			448									
		463.5 - 488 - slightly altered-looking, numerous shears, many													
		cracks	10/10			458									

DIAMOND DRILL RECORD

LOGGED BY Fred 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
		C.A. 70° to 314', 75° to 317', 70° to 324', 80° to 328', 75-80° to 332', 50° at 333', 65° to 339', 70° to 353', 80° to 359', 70° at 360', 80° to 379', 70° at 380', 75° at 381-399', 80° to 418', 85° to 423', 80° to 424', F_2 fold at 425', 65° at 425.5', 70° at 427', 75-80° to 444', 70° to 457', 75° to 463', shear at 465(?), 65° at 466', 70° to 477', shear at (477-479)?, shear at 485' with gouge and breccia, 70° at 488'	12.8/14			472								
			2.9/6			478								
			3.7/10			488								
488 148.7	(551) 167.9	QUARTZ-SERICITE PHYLLITE. Light - meduim grey. Similar to 21-298' but thinly laminated, also intervals of striped banding. The latter show moderately developed F_1. Occasional quartz vein.	41/45		488	531									
			6/9			542									
		Minor shearing , generally parallel foliation. Rocks disturbed slightly more from about 528-551', more fractures and slips, also quartz filling and veins.	3.2/9			551									
		C.A. 70° to 505', 80° at 506', 75° to 510', 70° at 513', 50° at 517', 75° to 524', 70° to 527', 60° at 528', 50' at 529-531', 65° to 534', 75° to 550'													
		REMARKS: Hole temporarily stopped for winter closing of operations; to be continued early 1975. 70' BW casing left in hole.													

DIAMOND DRILL RECORD

LOGGED BY S. B. Reamsbottom

PROPERTY VANGORDA, GRUM JOINT VENTURE

D.D.H. No. 75-A64 (deepened) PAGE 1 of 6

	PA LINE GRID	HIW
LATITUDE	8 + 00N	38 022.84N
DEPARTURE	107 + 96W	22 786.84E
ELEVATION	4242.00'	4284.00

SPERRY SUN BEARING OF HOLE: @ 200' 152° 20' (True Azim); 400' 152° 20'; 600' 136° 50'; 800' 144° 20'; 1000' 134° 20'; 1150' 142° 20'

SPERRY SUN DIP TESTS: 200' 86° 00'; 400' 81° 30' dip; 600' 73° 25'; 800' 63° 30'; 1000' 66° 00'; 1150' 71° 30'

STARTED June 4, 1975 A.S.

COMPLETED June 15, 1975 D.S.

DEPTH Proposed: 1350' Ultimate: 1418'

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
	167.9 551	DRILLED TO 551' in 1974													
		SB													
551	282.2 926	GREEN-GRAY CHLORITE - SERICITE - QUARTZ - CARBONATE PHYLLITE													
		Well laminated, good F2, locally folded by F3 into kink folds (F2 parallel to core) F2 dominant. Note minor zinc and lead in			Recovery Good										
		quartz veins (569', 574', 578', 613') Rock broken from 575-603' White quartz carbonate laminae. Minor pyrrhotite locally. F1	/16		676	692		Rock broken							
		subvertical in F2 laminae -- quartz-chlorite veins.													
		Core Angle: 560' = 63°, 570' = 72°, 580' = 62°, 590' = 36°, 600' = subvertical F3 fold (?) 610' = 64°, 620' = 66°, 630' = 55°, 640' = 70°, 650' = 64°, 660' = 80° 670' = 81°, 680' = 65°, 690' = 75°, 700' = 56°,			825	833		Rock broken sporadically.							
		710' = 57°, 720' = 80°, 730' = 75°, 740' = 80°, 750' = 72°, 760' = 79°, 770' = 71°, 780' = 68°, 790' = 75°.			861	871		Rock broken, locally gouged.							
		Note quartz carbonate vein with chalcopyrite, sphalerite, galena at 818'.													
		800' = 62°, 810' = 76°, 820' = 75°, 830' = 76°, 840' = 85°. Rock quite striped when more white quartz carbonate veins come													
		in at 870'.													
		Core Angle: 850' = 71°, 860' = 89°, 870' = 56°, 800' = 86°, 890' = 72°, 900' = 76°, 910' = 67°, 920' = 81°.													

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-A64 PAGE 2 of 6

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
282.2 926	316.4 1038	GREEN CHLORITE - SERICITE - QUARTZ CARBONATE PHYLLITE SB													
		Same as above but with thin zones (1-4') of black graphite phyllite - some faulted into place by shallow angle faults.													
		White quartz-chlorite veins. Many white cc rich veins. Graphite: 928-933'; 951-952' fault; note white cc laminae in													
		graphite also. Note: 975' -- vein quartz fine-grained pyrite, sphalerite, galena.													
		Core Angle: 930' = 76°, 940' = 76°, 950' = 66°, 960' = 75°,													
		970' = 65°, 980' = 56°, 990' = 74°, 1000' = 77°, calc-silicate (?) 997-1002', 1010' = 62°, 1020' =													
		76°, 1030' = 75°.													
1038	320.8 1052.5	GRAY QUARTZ - SERICITE - CHLORITE PHYLLITE													
		Minor graphite. Core Angle: 1040' = 46°, 1050' = 72°.													
1052.5	322.9 1059.3	SULPHIDE ZONE 4C/4A													
		QUARTZ - RICH SERICITE ± GRAPHITE ZONES WITH FINE GRAINED dissem.	4.5	1726	1052.5	1057.0	4.5	.85	1.68	.21					
		sphalerite, galena and pyrite. Note breccia @ 1053-1054'. 5-6%					1.37								
		sulphide, 3-4% lead-zinc.	/23		1057	1059.3									
1059.3	329.2 1080	Grades through 2 feet of chlorite-mariposite phyllite to 4A													
		BLACK STRIPED QUARTZ - GRAPHITE PHYLLITE. Fine-grained sphalerite	6.7	1727	1059.3	1066.0	6.7	1.13	1.80	.44					
		galena in foliation. 5% sulphide, 2-3% lead-zinc. Minor pyrite													

DIAMOND DRILL RECORD

LOGGED BY S. B. Reamsbottom

PROPERTY

D.D.H. No. 75-A64 PAGE 3 of 6

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

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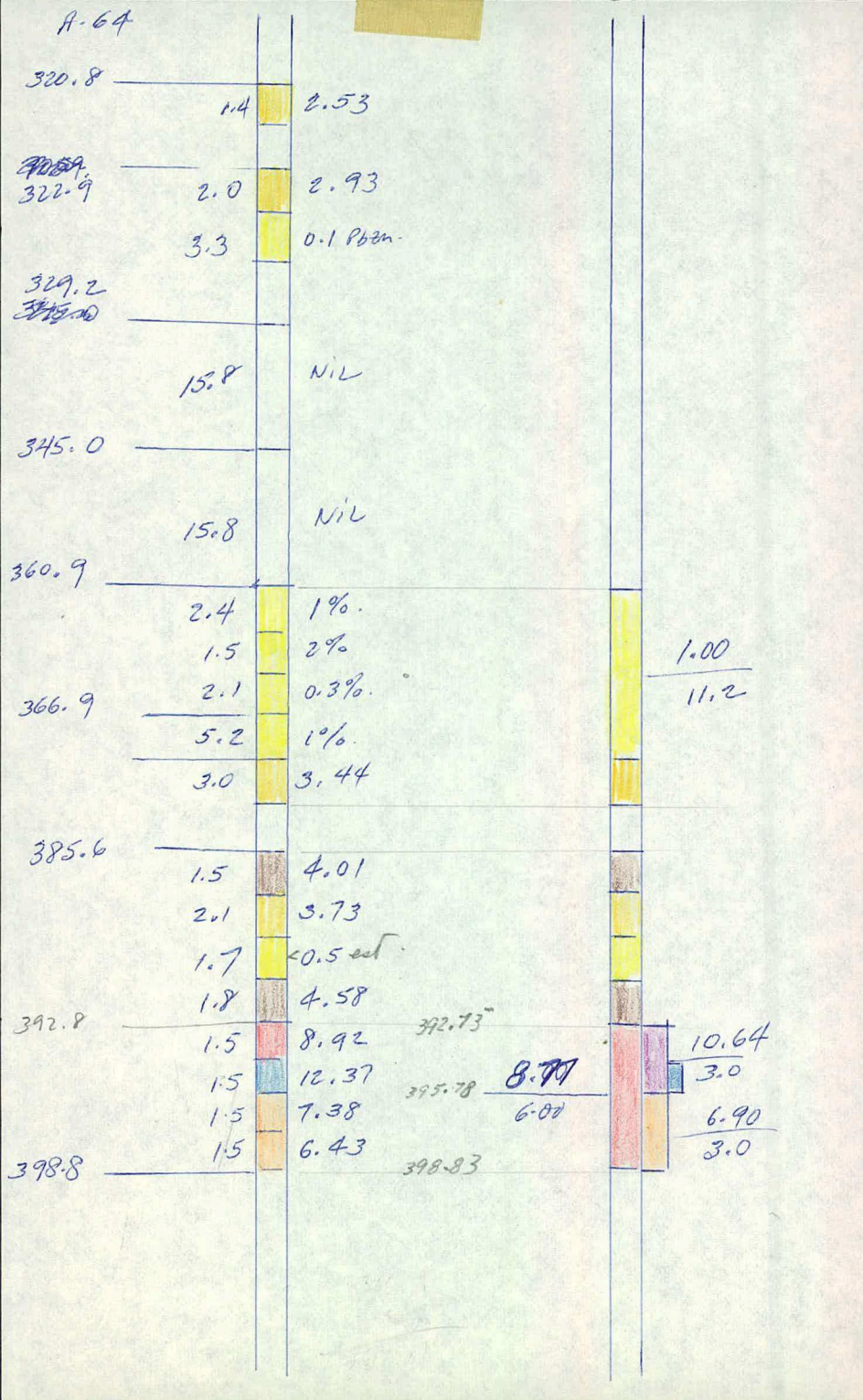
DIRECTION AND DISTANCE FROM NE. CLAIM POST

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
		pyrrhotite throughout section.	/11		1066	1077		0.1	Pb Zn, Est.						
		Core Angle: 1060' = 62°, 1070' = 84°, F1 45° opp.dip; 1080' = 65°.	/3			1080									
329.2 1080	345.0 1132	GREEN CHLORITE - SERICITE - CARBONATE - QUARTZ PHYLLITE													
		Well laminated. Minor blebs of pyrrhotite-pyrite. Minor biotite @ 1118'. Good small-scale F2 folds.	/52		1080	1132	52.0								
		Core Angle: 1090 = 57°, 1100 = 79°, 1110 = 75°, 1120 = 85°, 1130 = 75°.	/52		1132	1184	52.0								
1132	366.9 1204	GRAY QUARTZ - SERICITE PHYLLITE	/8 /5 /7			1192 1197 1204	8.0 5.0 7.0	1 % 2 " 0.3 "	Pb Zn, " " "	Est " "					
		Rock broken, gouged: 1162-1170' -- mylonized phyllite; 1182-1206' -- broken, muddy; gouge @ 1184-1189'. Minor sphalerite,			1143	1206		Weakly mineralized, gouged phyllite, less than 1% lead-zinc							
		pyrite, galena, pyrrhotite from 1143-1206'.	2/5		1184	1189									
		Core Angle: 1160' = 72°, 1150' = 57°, 1160' = 72°, 1170' = 65°, 1180' = 61°, 1190' = 55°, 1200' = 46°.	2.4/3		1189	1192									
1204	372.2 1221	WEAKLY MINERALIZED WHITE QUARTZ - SERICITE PHYLLITE													
		Fine-grained red sphalerite, minor pyrite, galena concentrated in F2 foliation. Representative sample #1728 = 1211-1221.	5/7		1197	1204									
		Core Angle: 1210' = 59°, 1220' = 70°.	1.5/2		1204	1206									
					1204	1221	17.0	Weakly mineralized phyllite; 1% lead-zinc.							
			2	1728	1211	1221	10	1.10	2.34	.44	(representative of 1204'-1221')				


A-64
320.8
1.4
2.53
322.9
2.0
2.93
3.3
0.1 Pb3n.
329.2
15.8
NiL
345.0
15.8
NiL
360.9
2.4
1%.
1.5
2%
2.1
0.3%.
366.9
5.2
1%.
3.0
3.44
385.6
1.5
4.01
2.1
3.73
1.7
<0.5 est.
1.8
4.58
392.8
1.5
8.92
1.5
12.37
1.5
7.38
1.5
6.43
398.8
392.73
395.78
8.77
6.00
398.83
1.00
11.2
10.64
3.0
6.90
3.0

DIAMOND DRILL RECORD

LOGGED BY S. B. Reamsbottom

PROPERTY

D.D.H. No. 75-A64 PAGE 4 of 6

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
372.2 1221	385.6 1265.2	GRAY QUARTZ - SERICITE PHYLLITE Good F2 foliation. Blebs of pyrite, pyrrhotite; local quartz veins with sphalerite, galena, pyrrhotite except 1236'. Core Angle: 1230' = 70°, 1240' = 72°, 1250' = 80°, 1260' = 70°.													
1265.2	400.5 1314	BLACK MINERALIZED QUARTZ - RICH STRIPED GRAPHITIC PHYLLITE													
		Fine-grained red sphalerite, galena, pyrite, pyrrhotite concentrated in F1 and F2 foliation.	4.8	1729	1265.2	1270	4.8	1.43	2.58	.44			6.864	12.384	2.112
		No. 1729 -- mineralized striped quartz-graphite phyllite, 8% sulphide, 3-5% lead-zinc	7	1730	1270	1277	7.0	1.33	2.40	.44			9.31	16.80	3.08
		No. 1730 -- as above No. 1731 -- as above; 6% sulphide 3% lead-zinc	/5.5		1277	1282.5		Quartz vein less than 0.5% lead-zinc							
		No. 1732 -- mineralized striped quartz-graphite phyllite, 8% sulphide, 6-7% lead-zinc	3.5	1731	1282.5	1288.5	6	1.70	2.88	.53					
		No. 1733 -- as above No. 1734 -- as above; 8% sulphide, 7-8% lead-zinc	5	1732	1288.5 392.8	1293.5	5 1.5	2.50	6.42	.85			3.75	9.63	1.27
		No. 1735 -- mineralized striped quartz-graphitic phyllite, 8% sulphide, 7% lead-zinc	5	1733	1293.5	1298.5	5 1.5	3.60	8.77	1.50			5.4	13.15	2.25
		Core Angle: 1130' = 75°, 1140' = 85°, 1150' = 70°, 1160' = 67°,	5	1734	1298.5	1303.5	5 1.5	2.13	5.25	1.15			3.19	7.87	1.72
		1170' = 64°, 1180' = 68°, 1200' = 75°, 1210' = 66°, 1220' = 75°, 1230' = 70°, 1240' = 73°, 1250' = 80°,	4	1735	1303.5	1308.5 398.8	5 1.5	1.63	4.80	.74			2.44	7.20	1.11
		1260' = 75°, 1270' = 70°, F1 subvertical, 1280' = 60-70°, 1290' = 67°, 1300' = 75°, F1 subvertical,	(4 Average		1265.2	1277.0	(3.6m) 11.8	1.37	2.47	(15.09 gm/mT) 0.44			16.174	29.184	5.192
		1310' = 60°.			1288.5	1298.5	(3.1m) 10.0	3.05	7.6	(40.29 gm/mT) 1.18			6.10	15.19	2.35
					1298.5	1308.5	(3.1m) 10.0	1.88	5.03	(33.37 gm/mT) 0.95			3.76	10.05	1.89
					1288.5	1308.5	6.0m	2.46	6.31	1.06 (36.28)			14.78	37.85	6.35

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-A64 PAGE 5 of 6

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
400.5 1314	423.5 1389.5	GRAY QUARTZ - SERICITE PHYLLITE													
		Excellent F2 foliation. F1 folded, subvertical. Minor blebs of pyrite and pyrrhotite. Minor thin zones of paler chlorite-sericite and more graphitic phyllite in first 20 feet of section.			1335	1337		Mud, gouge							
		Core Angle: 1320' = 85°, 1330' = 86°, 1340' = 88°, 1350' = 60°, 1360' = 65°, 1370' = 47°, 1380' = 57°.													
1389.5	432.2 1418	PALE GREEN CHLORITE - SERICITE - QUARTZ - CARBONATE PHYLLITE													
		Small-scale fault. Rock broken, poor recovery. Rock powdery -- possible alteration (?)	2.5/5.5		1384	1389.5									
		Core Angle: 1390' = 65°, 1400' = 63°, 1410' = 55°.	2.0/5.5		1389.5	1395									
			4/6.0		1400	1406									
			5/12		1406	1418									
	1418	END OF HOLE													
		REMARKS: 1. Note 12' of ice @ collar.													
		2. 13 hours to ream drill hole from top to bottom.													
		3. Drilling was normal from footage 551-1000' with no bit change. After bit change, had trouble getting rods back down hole. Same problem to 1418' and wore out many bits getting to bottom. Finally bits wore out before reaching bottom. Decide to shut down hole.													
		4. Took Sperry Sun survey.													

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-A64 PAGE 6 of 6

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
		5. Cemented hole by pouring cement down from collar, 12 bags used.													
	NOTE:	6. Retrieve 70' BW Casing plus one BW Casing shoe, also 10' NW Casing, all belonging to Kerr-AEX Joint Venture as material was paid for on Artic Diamond Drilling's billing.													

DIAMOND DRILL RECORD

LOGGED BY F. Chow

PROPERTY VANGORDA GRUM

D.D.H. No. A-65 PAGE 1 of 5

LATITUDE Line 74W 35 245.09N HIW BY TROPARI

BEARING OF HOLE @ 550' = ~~156° 56'~~ 158 Azim

STARTED April 10, 1975 D.S.

CLAIM No. Grum 3

DEPARTURE 2N 24 802.40E 748 P.A. Topog. BY TROPARI

DIP OF HOLE -90°

COMPLETED April 15, 1975 A.S.

DIRECTION AND DISTANCE FROM NE. CLAIM POST

ELEVATION 4,221 A.S.L.(old) 4262.79 (new)

DIP TESTS @ 550' = 85° 0 - 32NW

DEPTH Proposed: 550' Ultimate: 550'

SIZE OF HOLE 32 - 550 BQ

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	30	OVERBURDEN Triconed to 30'.	Nil		0	30									
30	143	QUARTZ - SERICITE PHYLLITE													
		50 - 65% quartz. Medium gray. Variable banding - thread width to ¼".	1.5/8		30	38									
			0.5/2			40									
		Rock fairly firm though parts readily along foliation planes.	1.4/4			44									
			10/10			54									
		F1 moderately well developed locally. Fractures and tension cracks moderate to numerous. Small shears locally.	6.8/9			63									
			25.2/29			92									
		Core Angles: 65° @ 30-57'; 70° @ 58-65'; 50° @ 66';	16.1/21			113									
			30/30			143									
		65-70° @ 67-118'. Shears @ 69.2' (70°); 70.5' (70°); 72.5', 81' (65°); 103-104.5'.													
		Core Angles: 70-80° @ 119-133'; 65-70° @ 134-143'.													
143	194	QUARTZ - SERICITE - GRAPHITE PHYLLITE													
		40-50% quartz. 35-50% sericite. 1-3% graphite. Graphite locally conc. 167-170' bleached to light gray-buff colour.	3.4/18		143	161									
			2.6/9.5			170.5									
		Moderately altered. Mainly light to medium gray. Slight leaching	4.0/21.5			192.0									
		Sheared at 156' (?). Rock appears to be highly fractured. Parts soft and fissile. Core broken up - poker chips and fragments.	1.1/2.0			194.0									
		Recovery poor. Rock not competent. Local F1.													
		Core Angle: 70-75°.													

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. A-65 PAGE 2 of 5

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
194	276	QUARTZ - SERICITE PHYLLITE													
		Similar to 143-194 except there is no graphite. 194-196' quartz lense.	4.7/8 3.2/13		194.0	202.0 215.0									
		Core Angles: 60° to 222'; 60-70° to 276'.	9.6/19 12.4/42		215.0	234.0 276.0									
276	386	QUARTZ - SERICITE PHYLLITE SK													
		40-50% quartz. 2-3% (?) carbonates. Medium to light gray. Mainly thinly banded.	5.1/16 6.7/10		276	292 302									
		F1 generally well developed. Rock firm but easily parts along foliation planes. Minor fractures and tension cracks. Rough leached surface. 378.5-386' fissile.	60/61 18/18 2.5/5			363 381									
		Core Angles: 60-70° @ 276-302'; 80° to 305'; 70° to 363'; 75° to 374'; 70° to 386'.													
386	412	QUARTZ - SERICITE - SULPHIDES Altered and bleached.													
		386-399' -- mainly medium gray phyllite with short sections of bleached buff sericite. Minor pyrite. Soft and fissile.	4.1/13		386	399									
		-406' -- bleached buff, 3% pyrite, negligible lead-zinc, slight shearing.	1.5/7 4.1	1279	406.0	406 412.0	6.0	1.43	1.52	.53					
		-412' -- banded sulphides and bleached sericite. 25% pyrite, 6% lead-zinc, splashed rich chalcopyrite, minor pyrrhotite, 1-2% magnetite from 408.5-412'.													
		407-412' rock firm but parts readily.													
		Core Angle: 70-75°.													

DIAMOND DRILL RECORD

LOGGED BY F. Chow

PROPERTY

D.D.H. No. A-65 PAGE 3 of 5

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

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
412	433	MASSIVE SULPHIDES WITH BARITE													
		Massive fine-grained pyrite with lead-zinc bands, also magnetite bands and clots.													
		412-415' -- 30% barite groundmass with dissem. sulphides leach holes, 20% pyrite, 7% lead-zinc, no magnetite.	2.8	1280	412.0	415.0	3.0	10.5	10.11	3.38					
		-433' -- 65-75% pyrite, 12% lead-zinc, 1-3% magnetite; leach holes.	2.1	1281		420.0	5.0	6.00	5.64	2.18					
		Core Angle: 65-70°.	1.3	1282		423.0	3.0	4.80	2.46	1.71					
			3.2	1283		428.0	5.0	8.42	5.40	2.76					
			4.5	1284		433.6	5.6	6.53	3.78	2.47					
433.0	449.0	QUARTZ - SERICITE PHYLLITE Altered and bleached.													
		60% quartz. Light gray and grayish-buff colour. Thinly banded.	4/5.4		433.6	439.0									
		433.0-433.6' -- 15% pyrite, 6% lead-zinc, tacy, moderately firm	1.4/4.0			443.0									
		-434.5' -- 4% pyrite, negligible lead-zinc, talcy, moderately firm.													
		-449.0' -- talcy, moderately firm	1.2/6.0			449.0									
		Core Angle: 70-60°.													
449.0	495.0	QUARTZ - SERICITE - CHLORITE PHYLLITE Altered													
		40-50% quartz, 40-50% sericite, 1-4% chlorite locally. Thinly banded. Kinky F1 local. Moderate alteration, varies from light gray to pale grayish-buff to greenish gray. Numerous fractures and tension cracks @ 477-495'.	3.5/4 3.3/6		449.0	453 459									
			0.8/3 1.6/6			462 468									

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. A-65 PAGE 4 of 5

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
		Rock is moderately competent.	2.3/2.5 7.1/9.5			470.5 480									
		Core Angle: 40-50°.	13.6/15			495									
		NOTE: 0.2' of mass sulphides (in 4 near full diameter pieces) cored at top of run from 468.0-468.2'; 70% pyrite, 12% lead-zinc. 0.2' of sand at bottom of previous run which gave poor recovery. Sulphides contain band of magnetite. Likely cave material from 415-433'.													
495.0	505.9	QUARTZ - SERICITE - GRAPHITE PHYLLITE													
		55% quartz, 40-50% sericite, 0-5% graphite. Medium gray to gray-black, increasing graphite to 505.9'. Thinly banded.	5.4/10		495.0	505.0									
		Local F1. Minor sulphides from 505-505.9'; 5% pyrite, 1-2% lead-zinc.	0.9	1285	505.0	505.9	0.9	0.20	0.60	0.06					
		Numerous fractures and tension cracks - increasing towards 505.9'. Rock not competent.													
		Core Angle: 55-70°.													
505.9	530.0	MASSIVE SULPHIDES													
		60-80% sulphides in quartz-felds matrix with local wisps of graphite.	5.8	1286	505.9	511.7	5.8	8.70	13.84	4.23					
		Rock hard, sulphides fine-grained. F2 mineralization, Banding faint, moderate to many leach holes. F2 folds.	4.3	1287	511.7	516.0	4.3	8.10	8.20	3.35					
		505.9-511.7' -- 60% pyrite, 15% lead-zinc -516.0' -- 80% pyrite, 6-8% lead-zinc	8.9 5.1	1288 1289		524.9 530.0	8.9 5.1	4.43 0.22	7.65 0.37	1.85 0.15					
		-524.9' -- 50-60% pyrite, 8-10% lead-zinc -530.0' -- 70-80% pyrite, 0.5% lead-zinc													

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. A-65 PAGE 5 of 5

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 Angles: 50-70° @ 506-517', 45° @ 519', 35° @ 524', 75° @ 526', 65° @ 528-530'.													
530.0	537.2	QUARTZ - SULPHIDES - SERICITE - GRAPHITE													
		40-50% quartz, 30-35% pyrite, 10% (?) sericite, 2% graphite. Silvery sericite with quartz. Light gray sericite and graphite as thin foliations in bands. Weak lead-zinc, 1-2%. Rock siliceous and hard. Moderate fracturing, minor leaching.	8.0	1290	530.0	539.0	9.0	0.57	0.69	0.44					
		Core Angle: 56-70°.													
537.2	550.0	QUARTZ - SERICITE - GRAPHITE - SULPHIDES													
		70% quartz, 20% sericite, 1-2% graphite, 5-10% sulphides (5-10% pyrite, 0-5% lead-zinc) Medium gray, banded, kinky F-1, F-2	0.7	1291	539.0	542.0	3.0	3.75	1.56	1.09					
		mineralization, Also F1. Siliceous and hard. Competent rock. Recovery very poor from 539-550' (last 8' run lost core due to "core barrel did not lock")	0.4	1292		550.0	8.0	4.20	1.54	1.18					
		Core Angle: 70-80°.													
	550.0	END OF HOLE													
		REMARKS: 1. Lost water return @ 422'.													
		2. Hole to be surveyed, rig still on set-up (4/21/75)													

DIAMOND DRILL RECORD

LOGGED BY F. Chow

PROPERTY VANGORDA GRUM

D.D.H. No. A-65 PAGE 1 of 5

LATITUDE 10 742.70 N | 2400N (HIW) BEARING OF HOLE @ 550' = 156° 56' Azim (BY TROPARI) STARTED April 10, 1975 D.S.

DEPARTURE 7559.77 E | 74W (748 P.A. Topog.) DIP OF HOLE -90° (BY TROPARI) COMPLETED April 15, 1975 A.S.

ELEVATION 4,221 A.S.L.(old) 4262.79 (new) (1299.30m) DIP TESTS @ 550' = 85° 0 - 32NW 32 - 550 BQ (SIZE OF HOLE) DEPTH Proposed: 550' Ultimate: 550' (167.64m)

CLAIM No. Grum 3

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	30	OVERBURDEN Triconed to 30'.	Nil		0	30									
30	143	QUARTZ - SERICITE PHYLLITE													
		50 - 65% quartz. Medium gray. Variable banding - thread width to ¼".	1.5/8		30	38									
			0.5/2			40									
		Rock fairly firm though parts readily along foliation planes.	1.4/4			44									
			10/10			54									
		F1 moderately well developed locally. Fractures and tension cracks moderate to numerous. Small shears locally.	6.8/9			63									
			25.2/29			92									
		Core Angles: 65° @ 30-57'; 70° @ 58-65'; 50° @ 66';	16.1/21			113									
			30/30			143									
		65-70° @ 67-118'. Shears @ 69.2' (70°); 70.5' (70°); 72.5', 81' (65°); 103-104.5'.													
		Core Angles: 70-80° @ 119-133'; 65-70° @ 134-143'.													
143	194	QUARTZ - SERICITE - GRAPHITE PHYLLITE													
		40-50% quartz. 35-50% sericite. 1-3% graphite. Graphite locally conc. 167-170' bleached to light gray-buff colour.	3.4/18		143	161									
			2.6/9.5			170.5									
		Moderately altered. Mainly light to medium gray. Slight leaching	4.0/21.5			192.0									
		Sheared at 156' (?). Rock appears to be highly fractured. Parts soft and fissile. Core broken up - poker chips and fragments.	1.1/2.0			194.0									
		Recovery poor. Rock not competent. Local F1.													
		Core Angle: 70-75°.													

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. A-65 PAGE 2 of 5

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
194	276	QUARTZ - SERICITE PHYLLITE													
		Similar to 143-194 except there is no graphite. 194-196' quartz lense.	4.7/8 3.2/13		194.0	202.0 215.0									
		Core Angles: 60° to 222'; 60-70° to 276'.	9.6/19 12.4/42		215.0	234.0 276.0									
276	386	QUARTZ - SERICITE PHYLLITE													
		40-50% quartz. 2-3% (?) carbonates. Medium to light gray. Mainly thinly banded.	5.1/16 6.7/10		276	292 302									
		F1 generally well developed. Rock firm but easily parts along foliation planes. Minor fractures and tension cracks. Rough leached surface. 378.5-386' fissile.	60/61 18/18 2.5/5			363 381									
		Core Angles: 60-70° @ 276-302'; 80° to 305'; 70° to 363'; 75° to 374'; 70° to 386'.													
386	412	QUARTZ - SERICITE - SULPHIDES Altered and bleached.													
		386-399' -- mainly medium gray phyllite with short sections of bleached buff sericite. Minor pyrite. Soft and fissile.	4.1/13		386	399									
		-406' -- bleached buff, 3% pyrite, negligible lead-zinc, slight shearing.	1.5/7 4.1	1279	406.0	406 412.0	6.0	1.43	1.52	.53					
		-412' -- banded sulphides and bleached sericite. 25% pyrite, 6% lead-zinc, splashed rich chalcopyrite, minor pyrrhotite, 1-2% magnetite from 408.5-412'. 407-412' rock firm but parts readily.													
		Core Angle: 70-75°.													

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.	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
412	433	MASSIVE SULPHIDES WITH BARITE													
		Massive fine-grained pyrite with lead-zinc bands, also magnetite bands and clots.													
		412-415' -- 30% barite groundmass with dissem. sulphides leach holes, 20% pyrite, 7% lead-zinc, no magnetite.	2.8	1280	412.0	415.0	3.0	10.5	10.11	3.38			30.15	30.33	10.14
		-433' -- 65-75% pyrite, 12% lead-zinc, 1-3% magnetite; leach holes.	2.1	1281		420.0	5.0	6.00	5.64	2.18			30.00	28.20	10.90
		Core Angle: 65-70°.	1.3	1282		423.0	3.0	4.80	2.46	1.71			14.40	7.38	5.13
			3.2	1283		428.0	5.0	8.42	5.40	2.76			42.10	27.00	13.80
			4.5	1284		433.6	5.6	6.53	3.78	2.47			36.568	21.168	13.832
				Wt. Av.	412.0	433.6	21.6	7.09	5.28	2.49	(85.4 gm/m.t.)		153.218	114.078	53.802
433.0	449.0	QUARTZ - SERICITE PHYLLITE Altered and bleached.													
		60% quartz. Light gray and grayish-buff colour. Thinly banded.	4/5.4		433.6	439.0									
		433.0-433.6' -- 15% pyrite, 6% lead-zinc, tacy, moderately firm	1.4/4.0			443.0									
		-434.5' -- 4% pyrite, negligible lead-zinc, talcy, moderately firm.													
		-449.0' -- talcy, moderately firm	1.2/6.0			449.0									
		Core Angle: 70-60°.													
449.0	495.0	QUARTZ - SERICITE - CHLORITE PHYLLITE Altered													
		40-50% quartz, 40-50% sericite, 1-4% chlorite locally. Thinly banded. Kinky F1 local. Moderate alteration, varies from light gray to pale grayish-buff to greenish gray. Numerous fractures and tension cracks @ 477-495'.	3.5/4 3.3/6		449.0	453 459									
			0.8/3 1.6/6			462 468									

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
		Rock is moderately competent.	2.3/2.5 7.1/9.5			470.5 480									
		Core Angle: 40-50°.	13.6/15			495									
		NOTE: 0.2' of mass sulphides (in 4 near full diameter pieces) cored at top of run from 468.0-468.2'; 70% pyrite, 12% lead-zinc. 0.2' of sand at bottom of previous run which gave poor recovery. Sulphides contain band of magnetite. Likely cave material from 415-433'.													
495.0	505.9	QUARTZ - SERICITE - GRAPHITE PHYLLITE													
		55% quartz, 40-50% sericite, 0-5% graphite. Medium gray to gray-black, increasing graphite to 505.9'. Thinly banded.	5.4/10		495.0	505.0									
		Local F1. Minor sulphides from 505-505.9'; 5% pyrite, 1-2% lead-zinc.	0.9	1285	505.0	505.9	0.9	0.20	0.60	0.06					
		Numerous fractures and tension cracks - increasing towards 505.9'. Rock not competent.													
		Core Angle: 55-70°.													
505.9	530.0	MASSIVE SULPHIDES													
		60-80% sulphides in quartz-felds matrix with local wisps of graphite.	5.8	1286	505.9	511.7	5.8	8.70	13.84	4.23			50.46	80.27	24.53
		Rock hard, sulphides fine-grained. F2 mineralization, Banding faint, moderate to many leach holes. F2 folds.	4.3	1287	511.7	516.0	4.3	8.10	8.20	3.35			34.83	35.26	14.41
		505.9-511.7' -- 60% pyrite, 15% lead-zinc	8.9	1288		524.9	8.9	4.43	7.65	1.85			39.43	68.09	16.47
		-516.0' -- 80% pyrite, 6-8% lead-zinc	5.1	1289		530.0	5.1	0.22	0.37	0.15					
		-524.9' -- 50-60% pyrite, 8-10% lead-zinc -530.0' -- 70-80% pyrite, 0.5% lead-zinc	Wt.	Av.	505.9	524.9	19.0	6.56	9.66	2.92	(100 g/m/m.t.)		124.72	183.62	55.40

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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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: 50-70° @ 506-517', 45° @ 519', 35° @ 524', 75° @ 526', 65° @ 528-530'.													
530.0	537.2	QUARTZ - SULPHIDES - SERICITE - GRAPHITE													
		40-50% quartz, 30-35% pyrite, 10% (?) sericite, 2% graphite. Silvery sericite with quartz. Light gray sericite and graphite as thin foliations in bands. Weak lead-zinc, 1-2%. Rock siliceous and hard. Moderate fracturing, minor leaching.	8.0	1290	530.0	539.0	9.0	0.57	0.69	0.44					
		Core Angle: 56-70°.													
537.2	550.0	QUARTZ - SERICITE - GRAPHITE - SULPHIDES													
		70% quartz, 20% sericite, 1-2% graphite, 5-10% sulphides (5-10% pyrite, 0-5% lead-zinc) Medium gray, banded, kinky F-1, F-2	0.7	1291	539.0	542.0	3.0	3.75	1.56	1.09			11.25	4.68	3.27
		mineralization, Also F1. Siliceous and hard. Competent rock. Recovery very poor from 539-550' (last 8' run lost core due to "core barrel did not lock")	0.4	1292		550.0	8.0	4.20	1.54	1.18			33.60	12.32	9.44
			Wt.	Av.	539.0	550.0	11.0	4.08	1.55	1.16	(39.6)		44.85	17.0	12.71
		Core Angle: 70-80°.													
	550.0	END OF HOLE													
		REMARKS: 1. Lost water return @ 422'.													
		2. Hole to be surveyed, rig still on set-up (4/21/75)													

DIAMOND DRILL RECORD

LOGGED BY Fred Chow

PROPERTY VANGORDA, GRUM JOINT VENTURE

D.D.H. No. 75-A-66 PAGE 1 of 10

PA LINE GRID HIW

LATITUDE 2N 34 696.16N BEARING OF HOLE _____ STARTED April 25, 1975 D.S.

CLAIM No. _____

DEPARTURE L 66W 25 398.42E DIP OF HOLE -90 COMPLETED April 29, 1975 N.S.

DIRECTION AND DISTANCE FROM NE. CLAIM POST

ELEVATION 4183 ASL 4224.19' (1287.53m) (1287.53 m)

DIP TESTS Tropari Tests @ Collar 88° Dip; @ 190' 88° Dip; @ 380' 88° Dip S85°57.5'E; @ 580' 80° Dip S76°21.5'E

DEPTH Proposed: 370' Ultimate: 600' (182.88m)

S. 69° 39.5'E True Brg. Hole Size: 0 - 170' BW; 170 - 600' BQ

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	148 (45.1m)	OVERBURDEN													
		Granitic boulder and clay till.	Nil 2.4/77		0	71 148									
148	158 (48.1m)	QUARTZ - SERICITE PYHLLITE Medium gray and altered.													
		45% quartz. Thinly banded. Lower ½ altered 30%	0.7/10		148	158									
		Core Angle: 70°.													
158	162 (49.3m)	QUARTZ - SERICITE PHYLLITE Bleached Buff.													
		50% quartz. Soft. Broken core.	0.4/4		158	162									
		Core Angle: 75°.													
162	168 (51.2m)	QUARTZ - SERICITE PHYLLITE Altered. Medium gray.													
		50% quartz. Minor buff carbonate bands or blobs. Slightly fissile. 1/6" to 1/8" banding. F1 poorly developed.	4/6		162	168									
		Possible shear at 167-168'.													
		Core Angles: 35° @ 162' - 164', 75° @ 164-168'.													
168	177 (53.9m)	QUARTZ - SERICITE - GRAPHITE WITH SULPHIDES													
		65-70% quartz. 15% sericite. 10% graphite. 5-8% pyrite, 2-4% lead-zinc, spot of chalcopyrite.	4.6	1293	168.0	174.0	6.0	1.58	2.34	.82			9.48	14.04	4.92

DIAMOND DRILL RECORD

LOGGED BY F. Chow

PROPERTY

D.D.H. No. 75-A-66 PAGE 2 of 10

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
		¼' to 1" banding. Well developed F1 and F2 mineralization.	1.6	1294	174.0	177.0	3.0	1.10	1.82	.44			3.3	5.46	1.32
		Galena and sphalerite discreet grains. Moderate fracturing.													
		Core Angles: 70° @ 168'-172', 75° @ 173'-177'.			168	177	9.0	1.42	2.17	.69			12.78	19.50	6.24
53.9 177	61.5 202	QUARTZ - SERICITE PHYLLITE Altered. Moderate bleaching.													
		45% quartz. Dirty light gray with threads of buff sericite foliations. Abundant buff colour carbonates. No sulphides.	18.5/19		177	196									
		Moderate amount of fracturing, minor shears (tight) 194.5'-202' -- sheared. talcy, broken core.	2.3/6			202									
		Minute F1 moderately developed.													
		Core Angles: 75-80° with local 55° C.A. @ shearing points @ 181.5', 188' and 195'-201'.													
202	64.3 211	QUARTZ - SERICITE - GRAPHITE PHYLLITE WITH SULPHIDES													
		40-65% quartz intermittent sections of sericitic and graphitic (202'-203.7', 205.5'-208', 209.3'-209.8') phyllites.	4.4	1295	202.0 61.5	208.2 63.46	6.2	.84	1.84	.41					
		Sericitic sections contains low pyrite, lead-zinc, highly sericitic, fissile and sheared. Graphitic phyllite siliceous and hard. 10-15% pyrite, 1-1.5% lead-zinc.	2.5/2.8			211.0									
		Core Angles: 70° @ 202', 50° @ 203-204', 70° @ 204.5', 60° @ 206', 40° @ 210.5'.													

DIAMOND DRILL RECORD

LOGGED BY Fred Chow

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

D.D.H. No. 75-A-66 PAGE 3 of 10

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
	61.6m														
211	228.5	QUARTZ - GRAPHITE ± SERICITE WITH SULPHIDES													
		65% quartz, 15% graphite, 10% sericite, 10% pyrite, 3% lead-zinc,													
		Variably banded with thin foliations graphite and sericite. F1 well developed from 211'-219'. Both F1 and F2 mineralization.	5.9	1296	211.0	218.0	7.0	2.23	3.36	1.12			15.61	23.52	7.84
		F1 fold noses @ 211.5' and 212.5'. Rock quartzy and hard but highly fractured. Core broken. Slick-	4.5	1297		224.0	6.0	1.53	3.18	.68			9.18	19.08	4.08
		side @ 217' @ 90° to core.	3.4	1298		229.7	5.7	2.10	4.44	.68			11.97	25.31	3.88
		Core Angles: 70° to 217', 75° @ 218', 80° @ 222', 70° @ 225', 50° @ 227'.			64.3 211	70.01 229.7	5.70 18.7	1.97	3.63	.84	Weighted Average		36.76	67.91	15.44
	78.3m														
228.5	257.0	QUARTZ - SERICITE PHYLLITE Altered. Light gray.													
		45% quartz. No sulphides. Altered to dirty light gray of minor buff bands or foliations. 228.5'-229.7' quartz vein with	1.7/2.3 0.9/6		229.7	232.0 238.0									
		lead-zinc.	1.9/2 0.4/3			240.0 243.0									
		Intense local shearing, often gougy. Rock broken and not competent.	0.7/3 4/5			246.0 251.0									
		Core Angles: 70° @ 232', 45° @ 239'-247', 40° @ 248', 60° @ 251-257'.	3/6			257.0									
257.0	261.0	FAULT													
		Light gray gouge and breccia.	1.2/4		257	261.0									

DIAMOND DRILL RECORD

LOGGED BY F. Chow

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

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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
19.5m	81.6m														
261.0	268.0	QUARTZ VEIN WITH GRAY PHYLLITIC BANDS													
		Contact zone between the above mentioned fault and massive sulphides below. Appear to be seritic phyllite intruded by quartz. A few spots of lead-zinc. Rock broken and highly fractured.	5.6/7.0		261.0	268.0									
268.0	281.3	MASSIVE SULPHIDES	8	1299	268.0	276.0	8.0	5.40	10.80	1.94			43.2	86.4	15.52
		Massive, fine-grained, rich pyrite with lead-zinc and rich lead-zinc bands. Sulphides moderately porous, slightly leached.	5.3	1300		281.3	5.3	8.84	14.83	3.09			46.85	78.60	16.38
		Minor remnant of graphite. 268'-276' 70% pyrite, 12% lead-zinc -281.3' 50% pyrite, 25% lead-zinc			268 81.6	281.3 85.7	13.3' (4.1 M)	6.77	12.41	2.40 (197.49 g/MT)	Weighted		90.05 Average	165.00	31.90 Plot.
		Core Angles: 70° @ 268', 50° @ 272'-276', F2 fold @ 277.5', 40° @ 279'.													
281.3	318.5	QUARTZ - GRAPHITE ± SERICITE PHYLLITE WITH SULPHIDES													
		60% quartz, 10-15% graphite ± sericite, 15-20% pyrite, variable lead-zinc.	2.7	1401	281.3	284.0	2.7	5.10	5.76	1.76			13.77	15.55	4.75
		281.3'-293.5' 20% pyrite, 5% lead-zinc. Minor leaching. -318.5' 15% pyrite, 0.3% lead-zinc. Moderate leaching	2.7	1402		290.6	6.6	5.48	4.98	1.85			36.17	32.87	12.21
		0.6' buff sericite. F1 moderately developed, mainly F2 mineralization. Many slips	1.9	1403		293.5	2.9	5.63	5.52	1.79			16.33	16.01	5.19
		and offsets, locally intensely fractured. Rock weakly competent to 304', poor from 304-318'.	1.9	1404		296.0	2.5	.40	.82	.29					
		(Recovery very poor)													

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.

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 Angles: 45° @ 285'-293', 50° @ 294', 65° @ 296', 70° 297'-304', 75° @ 317'.	5.8	1405		306.0	10.0	.28	1.07	.24					
			0.8	1406		312.0	6.0	.56	.95	.32					
			2.0	1407		318.5	6.5	.95	.96	.59					
					85.7 281.3	89.46 293.5	3.7 12.2	5.43	5.28	1.82			66.27	64.43	22.15
											Weighted Average				
97.0 318.5	100.19 328.5	QUARTZ - SERICITE PHYLLITE WITH SULPHIDES Bleached			293.5	97.0 318.5	25.	1.48	Pb-Zn						
		55-60% quartz, 10% pyrite, 1% lead-zinc. Totally bleached buff. 0.2' of fuschite @ 320.5', quartzy with sericitic foliations	4.3	1408	318.5	328.5 100.10	10.0	.49	3.12	.24					
		which parts readily. Rock not competent. Core broken, recovery very poor.													
		Core Angle: 70 - 75°.													
328.5	103.6 340.0	QUARTZ - GRAPHITE ± SERICITE PHYLLITE WITH SULPHIDES Brecciated													
		65-70% quartz, 15-20% graphite, 0-5% sericite, 20% pyrite, 0.3% lead-zinc. Banded - qtzose - fels - sulphide bands with thinly	4.5	1409	328.5	338.0	9.5	.21	.42	.15					
		foliated graphite ± sericite, also sericitic in qtzose bands.	1.7	1410		340.0	2.0	.30	1.08	.29					
		331'-340' brecciated and/or shattered, then re-cemented within qtzose-phyllite matrix. Core broken. Rock likely tend to			100.10 328.5	103.6 340.0	3.5 11.5	.76	Pb-Zn		Weighted Average				
		fracture and spall.													
		Core Angles: 85° @ 329', 75° @ 330'-337', 30° @ 338', 40° 340', 40° shear with mud @ 340'.													

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
103.6m 340.0	107.8 353.7	QUARTZ SULPHIDES - PHYLLITE BRECCIA													
		50% quartz, 30-45% pyrite, 6-9% lead-zinc, 3-5% graphite-sericite. Above brecciated and re-cemented by same material.	6.5	1411	340.0	348.0	8.0	4.55	6.00	1.71			36.4	48.	13.68
		Highly leached, fractures and holes probably formerly occupied by carbonates.	3.7	1412		351.7	3.7	4.65	5.82	1.53			17.21	21.53	5.66
		Rock weakly competent. Note: Slickenside @ 343.5' @ 40° to core.	2	1413	107.2	353.7 107.8	2.0	.15	.96	.15	?				
					103.6 340.0	107.2 351.7	11.7	4.58	5.94	1.65	Weighted Average		53.61	69.53 RJS	19.34
353.7	137.9m 452.5	QUARTZ - GRAPHITE + SERICITE PHYLLITE WITH SULPHIDES													
		353.7'-358' Brecciated, broken core. 3% pyrite, no lead-zinc.	2/4.3		353.7	358.0									
			3.1/11			369.0									
		358' -393' Siliceous, 65% quartz, 25% pyrite, minor lead-zinc between 373'-378' and 388'-392.5' (0.2% and 2.5%)	3.2/4		369.0	373.0									
		Rock moderately fractured, easily broken or parts easily. F2 mineralization.	2.9	1414	373.0 113.7	378.0 115.2	5.0	.44	.77	.26					
		393' -418.4' As above but less disturbed, 25-30%pyrite, a few spots lead-zinc. Copper. Moderate competent rock F2 mineralization.	0.8/6			384.0									
			0.6/4			388.0									
		This section of graphitic (5-15% graphite ± sericite) phyllites are very quartzy; general exhibiting dissem. pyrite in qtzose-fels bands with wispy foliations of graphite. The latter forms wavy or kinky threads or bands in a qtzose matrix.	2.8	1415	118.26	392.6 119.66	4.6	2.25	1.22	1.09					
			1.5/3.4			396.0									
			15/16			412.0									
		Brecciation often with breccia appear to occur at the F2 fold noses. These brecciated sections are always leached. Numerous light slips, fractures not common in un-brecciated rock. Generally, rocks are moderately competent.	1.1/2			414.0									
			9/9			423.0									
			1.2/2.5			425.5									

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-A-66 PAGE 7 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
		418.4'-425.5' More qtzose, less banding, more pyrite - often as massive, barren pyrite. No lead-zinc — Copper noted.	7	1416	129.69	432.6 131.86	7.1	.28	.78	.24					
			7.4/7.4			440.0									
		Core Angles: 65° @ 358', 60° @ 371', 65-70° @ 372', 70-75° @ 378', 60° @ 388', 50° @ 396', 60° @ 397', 50° @ 408', 40° @ 412', 50-55° @ 414', 45° @ 420', 50° @ 422'.	12.5/12.5			452.5									
		425.5'-452.5' F2 fold nose (?) lying between two tight slips 30° slips @ 429.5' and @ 452'. F1 folds (?) @ 434'-436.5'. Abundant chalco (0.3%) between 430'-432.6', a few spots lead-zinc, 25% pyrite. Highly fractured, brecciated @ 433-452', re-cemented.													
		Core Angle: 45° @ 427', 0-20° @ 430'-436', 30° @ 437', nose @ 441', irregular from 442'-452' (Many slips and offsets).													
137.9m 452.5	147.8m 485.0	QUARTZ - SERICITE ± GRAPHITE PHYLLITE WITH SULPHIDES													
		Essentially same as phyllite immediately above, more siliceous and massive.	2.5/2.5		452.5	455.0									
		Buff brown carbonate(?) abundant @ 455'-461', many slips with minor offsets, deep leaching.	5	1417	138.7	460.0 140.2	5.0	.03	4.20	.03					
		F1 prominent @ 457'-485'.	10/10			470.0									
		15% pyrite, minor scatterd spots Pb-Zn + pyrrho; chalco common as blebs and fracture filling, about 0.1%. Both F1 and F2 mineralization.	4.9/5	1418	143.26	475.0 144.8	5.0	.04	.09	.06		Est. 0.1			
		Rock competent.													

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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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: 70° throughout.	9.5/10			485.0									
		Note: Sample 1417 to check carbonate for possible zinc carbonate; sample 1418 to check for gold and silver.													
147.3m 485.0	148.5 490.7	QUARTZ - SERICITE PHYLLITE WITH SULPHIDES Altered and bleached													
		Similar to rocks above but no graphite and rock is very siliceous 5% pyrite, 0.05 copper, no lead-zinc noted.	5.4/5.7		485.0	490.7									
		Core Angle: 65-80 °.													
490.7	155.5m 510.4	QUARTZ - SERICITE + GRAPHITE PHYLLITE WITH SULPHIDES													
		Similar to 452.5'-485'. 490.7'-498.8'. F1 prominent.	1.3/1.3 4.8/7.0		490.7	492.0 499.0									
		498.8'-510' Undergone intensive stress, likely shearing, highly fractured. Also brecciated @ 504.8'-507.5'.	5.8/9.5			508.5									
		10% pyrite, locally rich chalcopyrite, no lead-zinc noted.	0.6/1.5			510.0									
		Core Angle: 75 °.													
510.4	160.0m 525.0	MASSIVE SULPHIDES													
		Rich lead-zinc with pyrite bands and rich lead-zinc banded with massive pyrite. Short bands quartz-sericite + graphite with	2.2	1419	510.0	513.0	3.0	8.56	10.15	3.82	Plot		25.68	30.45	11.46
		sulphides. 510.4'-514.7' 25%pyrite, 28% lead-zinc	5.8	1420		519.0	6.0	1.75	3.00	.74	Plot		10.5	18.0	4.44
		-516' 50%pyrite, 10% lead-zinc -519' 70%pyrite, 5% lead-zinc -525' 60%pyrite, 15% lead-zinc	4.3	1421		525.0	6.0	5.70	7.20	2.12	Plot		34.2	43.2	12.72

DIAMOND DRILL RECORD

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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
		Core Anlge: 70-75°. Lower contact with phyllite @ 45°.			510.0 (155.45)	525.0 (160.02)	15.0	4.69	6.11	1.91	Weighted		70.38 Average	91.65	28.62
160.0m 525.0	161.9m 531.4	QUARTZ - SERICITE PHYLLITE Light gray.													
		55% quartz, thinly banded, fissile, no pyrite. Uppper 1' (?) contact bleached and talcy. Not competent.	4.7/6.4		525.0	531.4									
		Core Angle: 75-85°.													
531.4	162.8m 534.4	MASSIVE SULPHIDES													
		Massive pyrite 75% with 0.6' of 15% lead-zinc in middle of near barren pyrite and also with 0.4' of barren sericite.	3.0	1422	531.4 (161.9)	534.4 (162.8)	3.0	2.00	1.66	.88					
		Core Angle: 70° @ 532', 75° @ 533'.													
534.4	164.3m 540.0	QUARTZ - SERICITE - GRAPHITE PHYLLITE													
		45% quartz, 35% sericite, 20% graphite. Medium to dark gray to black. Thinly banded, moderately fissile. No pyrite.	5.4/5.6		534.4	540.0									
		Core Angle: 75°.													
540.0	175.3m 575.0	QUARTZ - SERICITE PHYLLITE Medium gray													
		40% quartz. Thinly foliated. Moderatley fissile, highly fissile from 564'-575'. Moderately altered from 554'-575'.	12.4/14		540.0	554.0									
		Not competent rock. Core in chips from 564'-575'.	2.4/10			564.0									

DIAMOND DRILL RECORD

LOGGED BY F. Chow

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

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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: 70°.	3/11			575.0									
575.0	579.5 (176.6m)	QUARTZ - SERICITE PHYLLITE WITH SULPHIDES Bleached													
		45% quartz. A few ½" - ¼" bands of rich lead-zinc between 576.4' -578.4'.	0.6/1.4		575.0	576.4									
		Totally bleached to buff colour.	1.8/2			578.4	Est.	2% lead-zinc/2'.							
		Core Angle: 70-75°.	0.8/1.1			579.5									
579.5	600.0 (182.8m)	QUARTZ - SERICITE PHYLLITE													
		Similar to 540'-575'. Core in chips and broken pieces.	3.8/4.5		579.5	584.0									
		Core Angle: 75-80°. Shear @ 582' (?)	5 /16			600.0									
	600	END OF HOLE													

REMARKS:

1. D.D.H. #75-A66 drilled for underground ramp planning and to investigate upper mineralized zones.
2. Hole was drilled deeper than the proposed depth because of bad ground formation @ ramp elevation.
3. Intersect water course @ 422', lost water return at 442'.
4. Hole cemented from collar to 600'.

DIAMOND DRILL RECORD

LOGGED BY F. Chow

PROPERTY VANGORDA, GRUM JOINT VENTURE

D.D.H. No. 75-A-67

PA LINE GRID	HIW			Reg	Ast. Beg
LATITUDE 6 + 01N	35 805.38N	BEARING OF HOLE (TROPARI)	@ 402' ≐ 307.8°	~~340°08.5'~~ 339°48' — 95°48'	
			@ 802' = 63.8°	~~96°08.5'~~	
			@1242' = 70.6°	102°~~56.5'~~ 36'	
DEPARTURE 77 + 99.6	24 809.32E	DIP OF HOLE -90°			
ELEVATION 4268.7 ASL	4310.69	DIP TESTS (TROPARI)	@ 402' ≐ -86° @ 802' ≐ -85° @1242' = -85°		

HOLE SIZE 0 - 43' BW

STARTED April 26, 1975 D.S.

COMPLETED May 6, 1975 D.S.

DEPTH Proposed: 1300' Ultimate: 1334.5' 406.7

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	37	OVERBURDEN Triconed to bedrock	Nil		0	37									
37	61	QUARTZ - SERICITE - CHLORITE and QUARTZ - SERICITE PHYLLITE													
		37-48' and 59-61' contains 15-20% chlorite, 60% quartz, hard and	3/11		37	48									
		siliceous. Local F1 poorly developed. Greenish-gray colour.	2.5/3			51									
		Massive. Sericitic phyllites:- 45% quartz, soft moderately	2.3/4			55									
		fissile. Thinly banded.	0.6/4			59									
		Many shears (small) and slips, fault at 58' (?) Gouge at 40' (?) 49', 50.5', 54.5', 58-59' (?)	1.3/2			61									
		Core Angles: 70° @ 39', 60° @ 44-61'.													
61	75	QUARTZ - SERICITE PHYLLITE													
		45-50% quartz, medium gray, thin white qtz. bands with quartzose	2.2/3		61	64									
		sericite foliations. Local F1 moderately developed.	1.8/3			67									
		Faulted and sheared at 65-67' at 20° to core, @ 68-69' at 60°	2/3			70									
		parallel to foliation.	3.7/5			75									
		Core Angles: 60° @ 61-64', 65-70 °@ 70-75'.													
75	79.5	QUARTZ - SERICITE PHYLLITE Altered													
		50% quartz. Buff gray, massive, well foliated. Local F1 poor.	4.1/4.5		75	79.5									
		Core Angle: 65-60°.													

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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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
79.5	85.0	QUARTZ - SERICITE PHYLLITE													
		Similar rock to 61-75'. Shearing and fracturing due to faulting below.	5.2/5.5		79.5	85.0									
		Core Angle: 55°.													
85.0	128.0	ZONE OF FAULTS AND SHEARS IN QUARTZ - SERICITE PHYLLITE													
		Main fault gouge recovered in core are noted at 95-100', 112 - 115' (?), 122-123', 126' and 128'. Much shearing has occured	4.5/5.0		85.0	90.0									
			0.7/2.0			92.0									
		though short sections throughout zone do not show much stress.	4.5/8.0			100.0									
			2.7/4.0			104.0									
		Phyllite light gray, quartzose-feldspar thin bands with thin foliations of gray sericite.	8.3/11			115.0									
			4.6/8			123.0									
		Core Angles: 50° @ 85', 40° @ 87', 20° @ 89.5', 0° @ 93', 20° @ 93.4', 40° @ 95', 75° @ 98'.	2.6/5			128.0									
128.0	195.0	QUARTZ - SERICITE PHYLLITE Light gray													
		45-50% quartz, silvery to light gray well foliated sericite, banded with white quartzose-feldspar. F1 moderately to poorly	8.0/9		128.0	137.0									
		developed. Minor shears and slips. Moderately altered @ 138.5-161' with increased shearing. F1 fold nose at 159'.	58/58			195.0									
		Rock not competent @ 148-166'. Weakly competent elsewhere.													
		Core Angles: 70° @ 128-135', 75-80° @ 136-141', 70° @ 142-149', 45-50° shearing @ 150-152', 60° @ 153', 90° @ 155'													
		shearing 154.5-155.5' parallel foliation, 70° @ 157', 75° @ 162', shearing at 162.5-164', 70° @ 167-195'.													

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
195.0	285.5	QUARTZ - SERICITE PHYLLITE Light gray													
		Essentially same as 128-195', but more siliceous (50-55% quartz-feldspar) Also show striped banding and well developed F1 folds.	60/60		195.0	255.0									
		Many tight shears and slips and tension cracks. Shearing generally parallel foliation. Larger shears @ 225.5-226' @ 35-40° to core; at 259.8-262' @35-40° to core (with gouge)	17/18			273.0									
			7/9			282.0									
		Rock not competent from 270-296'.	3.5/3.5			285.5									
		Core Angle: 75-70°.													
285.5	381.7	QUARTZ - SERICITE PHYLLITE Light to medium gray.													
		50-60% quartz, thin quartzose-feldspar bands with thin foliations of sericite. F1 poorly to moderately developed. Rock more	46.5/46.5		285.5	332.0									
		massive than sections above. Many quartz veins at 355-371'.	17/18			350.0									
		Rock competent from 296-379' except for shearing @ 335.9-340' and @ 343.5-344.3', also @ 379-381.7'.	30/30			380.0									
		Core Angle: 70°.	1.5/1.7			381.7									
381.7	417.3	QUARTZ - SERICITE PHYLLITE Light to medium gray													
		Similar to 285.5-381.7' except slightly more quartz and wider quartzose bands.	5/5.3		381.7	387.0									
			6/6			393.0									
			1.2/2			395.0									
			22/22.3			417.3									
		Core Angle: 70 to 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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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
417.3	444.5	QUARTZ - SERICITE PHYLLITE Altered													
		Similar to 381.7-417.3' but altered to dirty light gray or buff colour. Much fracturing, minor leaching, many shears	7.7/7.7		417.3	425.0									
		parallel foliation. A few 1" to 6" quartz veins. Rock not competent.	7.5/8			433.0									
		Core Angles: 75-80° @ 417-430', 70° @ 430-433', major shearing 432-433.6', 80° @ 434-435, 70° to 444.	9.2/11.5			444.5									
444.5	456.8	QUARTZ - SERICITE - GRAPHITE PHYLLITE Altered													
		As 417.3-444.5' with 3-4% graphite. Gouge seams at 449' and 452.5'. Negligible pyrite.	9.5/9.5		444.5	454.0									
		Rocks not competent. Much shearing.	2.8/2.8			456.8									
		Core Angles: 70° to 449', 75° @ 450-456'.													
457.0	466.0	MASSIVE SULPHIDES													
		Massive sphalerite and galena with pyrite. Also massive pyrite with rich sphalerite and galena. Upper contact at 65° to core,	9.0	1501	457.0	466.0	9.0	8.52	14.11	3.68			76.68	126.99	33.12
		sharp. Av. 30% pyrite, 26-30% lead-zinc.													
		457.0-459' -- 3% quartz-feldspar breccia and ½" soft bleached sericite.													
		-461' -- 4% porphyritic quartz-feldspar in mass, sphalerite (brick red)													
		-463' -- massive pyrite with lead and massive sphalerite and galena with pyrite													

DIAMOND DRILL RECORD

LOGGED BY F. Chow

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
		-464' -- as 459-461'													
		-466' -- massive sphalerite, galena, pyrite with 5% quartz-graphite-sericite phyllite. F2 folds and bands.													
		Core Angle: 70-75°.													
466.0	472.0	QUARTZ - GRAPHITE - SERICITE WITH SULPHIDES													
		Massive sulphides -- Phy sulphides contact gradual. Unit highly siliceous and hard. Wispy and/or kinky graphite-sericite in	7.0	1502	466.0	473.0	7.0	2.05	4.50	.88			14.35	31.50	6.16
		light grayish quartzose-feldspar banded with dissem or massive sulphides in quartzose matrix.													
		20% pyrite, 8% lead-zinc. Leached fracture or slips. F2 mineralization.	Wt.	Av.	457.0	473.0	16.0	5.69	9.91	2.46 (84.29 m/a.t.)			91.03	158.49	39.28
		Core Angles: 70 °@ 466-468', 80° to 472'.													
472.0	497.8	QUARTZ - SERICITE PHYLLITE WITH SULPHIDES Bleached													
		40-60% quartz, variable. Highly sericitic sections at 473-480'. 4-7% pyrite occuring as spidery threads and irregular bands,	2.7/3		473.0	476.0									
		3-6% lead-zinc occuring with pyrite in similar fashion. F2 mineralization mainly. Blebs arsenopyrite scattered, Sericite	3.7	1503		480.2	4.2	.57	.60	.15					
		totally bleached to light cream or off-white.													

DIAMOND DRILL RECORD

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PROPERTY

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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
		Rock quartzy, massive and sometimes slightly talcy. Competent ~~rock. Shear displacement at 475'.~~	3.8	1504	480.2	484.2	4.0	1.80	1.48	.59			7.2	5.92	2.36
		Core Angles: 65° @ 473', 0° @ 475', 65° @ 476', 80° @ 478-480'-490', 75° to 497'.	7.9	1505		492.1	7.9	1.50	1.84	.47			11.85	14.536	3.713
		1. Sample 1506 = lead-zinc mainly @ 494.6'-498.0'. Both ends negligible lead-zinc.	6.5	1506		499.0	6.9	1.14	3.30	.59					
		2. Rock appears to have undergone intensive stress and pressure The sulphide minerals re-mobilized through folding. F1 and F2 folds locally prominent.			4 ~~480.2~~	492.1	11.9	3.3	Pb-Zn						
					473.0	492.1	16.1	2.75	Lead-zinc		Weighted Average				
497.8	509.5	BRECCIATED ZONE IN QUARTZ - SERICITE PHYLLITE WITH SULPHIDES (497.8)													
		Phyllites similar to 472-509.5'. Have been 90% brecciated, loosely cemented then leached. There appears to be remobilization of sulphides, also formation of massive pyrite-lead-zinc bands. 5-12% pyrite, 10-5% lead-zinc.	1.5	1507	499.0	503.0	4.0	5.25	7.40	1.91			21.	29.6	7.64
			1.2	1508		509.5	6.5	2.93	3.84	1.15			19.045	24.96	7.475
		Core Angles: 70° @ 498', 35° @ 499', 70° @ 502', 70° @ 506'.	W. Average		499.0	509.5	10.5'	3.81	5.20	1.44			40.045	54.56	15.115
509.5	529.7	QUARTZ - CHLORITE - SERICITE PHYLLITE - Tuffaceous													
		45% quartz, 25-40% chlorite, 25-30% sericite. Tuffaceous, wavy bands or threads of chlorite. Local F1 poorly developed.	20/20.2		509.5	529.7									
		509.5-511' -- Brecciated and recemented firmly, also breccia at lower end - contact @ 20° to core. Moderate fuschite.													

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
		511-518.5' -- abundant fuschite in above half													
		Core Angles: 65o @ 511', 45° @ 512', 50° @ 513', 70° @ 515', 80° @ 517', 75° @ 520-526', 65° @ 527', 85° @ 529'.													
529.7	546.0	QUARTZ - SERICITE PHYLLITE													
		40% quartz. Alternate bands of bleached and unbleached, medium gray sericite(has minor foliations of bleached sericite)	5.8	1509	529.7	535.5	5.8	1.04	1.74	.44					
		Many quartz veins, often contain a few blebs or blobs of pyrite, pyrrhotite, galena and/or sphalerite.	10.5/10.5			546.0									
		529.7-533.5' and 534.8-535.5' -- 5% pyrite, 6.5% lead-zinc, chalcopyrite noted. Remaining phyllite contains minor pyrite, lead-zinc.													
		Core Angles: 85° @ 532', 70 °@ 535'-546'.													
546.0	569.7	QUARTZ - SERICITE PHYLLITE WITH SULPHIDES Altered													
		40% quartz, 45% light gray sericite, 2-4% buff sericite, 0-4% pyrite. Thinly banded, well foliated pyrite. Lower contact 50°.	6.6	1510	546.0	552.6	6.6	2.13	3.84	1.00					
		Rock firm. Moderately competent.	10.4/10.4			563.0									
		546-552.6' -- 6% pyrite, 6.5 % lead-zinc -569.7' -- scattered minor lead-zinc pyrite, also thin rich bands of lead-zinc.	4.9/6.7			569.7									
		Core Angles: 60° @ 546', 70° @ 549-557', 75-80° @ 558-569'.													

DIAMOND DRILL RECORD

LOGGED BY F. Chow

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
569.7	669.6	QUARTZ - SERICITE ± GRAPHITE PHYLLITE WITH SULPHIDE Siliceous													
		70% quartz, 20% sericite, 0-3% graphite, 4-6% pyrite, variable lead-zinc. Banded, gray quartzose-feldspar-sericite with generally	8.3	1511	569.7	578.0	8.3	1.95	2.97	.88			16.19	24.65	7.30
		thin bands of sulphide. Minor copper.	9.0	1512		587.0	9.0	1.75	2.76	.76			15.75	24.84	6.84
		F1 well developed. Both F1 and F2 mineralization, mainly in F2. Galena and sphalerite often occur discreetly.	6.0	1513		593.0	6.0	1.55	2.34	.50			9.30	14.04	3.00
		Hard, quartzy, competent rock except from 621-637.5 where rock is more sericitic, also tight shearing and leaching.	6.7	1514		599.7	6.7	1.50	2.34	.62			10.05	15.68	4.15
					569.7	599.7	30.0	1.71	2.64	.71	Weighted Average		51.29	79.21	21.29
		Core Angles: 80-90° @ 570-584', 70° @ 585-597', 90° @ 598', 70° @ 611', 80° @ 612-619', 70° @ 620-642', 70-75° @ 643-669'.	6.9	1515	599.7	606.6	6.9	2.33	3.90	1.00			16.08	26.91	6.9
		569.7-599.7' -- 3-4% pyrite, 3-5% lead-zinc	5.2	1516		611.8	5.2	2.38	3.30	1.06			12.38	17.16	5.51
		-606.6' -- 4-13% pyrite, 8-10% lead-zinc													
		-611.8' -- 5% pyrite, 3-4% lead-zinc	8.3	1517		620.1	8.3	2.18	4.26	.97			18.09	35.36	8.05
		-620.1' -- 6% pyrite, 9% lead-zinc													
		-624.2' -- 1% pyrite, 2% lead-zinc	4.1	1518		624.2	4.1	1.25	3.06	.50					
		-631.2' -- 0.5% pyrite, 0.7% lead-zinc													
		-669.6' -- 6-10% pyrite, 8-10% lead-zinc	7.0	1519		631.2	7.0	.55	1.40	.18					
			5.8	1520		637.0	5.8	2.13	4.92	.88			12.35	28.54	5.10
			6.0	1521		643.0	6.0	2.15	4.62	1.03			12.9	27.72	6.18
			4.7	1522		648.0	5.0	1.73	4.08	1.00			8.65	20.4	5.00
			5.6	1523		654.0	6.0	1.63	4.08	1.09			9.78	24.48	6.54
			4.4	1524		658.4	4.4	1.73	3.66	1.15			7.61	16.10	5.06

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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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
			3.3	1525		661.7	3.3	2.78	5.82	1.62			9.17	19.21	5.35
			8.7	1526		670.4	8.7	4.05	9.05	2.12			35.24	78.74	18.44
					599.7	620.1	20.4	2.28	3.89	1.00			46.55	79.43	20.46
					631.2	643.0	11.8	2.14	4.77	.96			25.25	56.26	11.28
											Weighted Averages				
					643.0	658.4	15.4	1.69	3.96	1.08			26.04	60.98	16.60
					658.4	670.4	12.0	3.70	8.16	1.98			44.41	97.95	23.79
669.6	675.0	QUARTZ - SERICITE PHYLLITE Bleached 45% quartz, rich sericite well foliated, negligible sulphides except about 5% lead-zinc at 669.6-670.4'. Sericite bleached buff, slightly talcy.	4.6/ 4.6		670.4	675.0		Estimate 0.05 lead-zinc							
		Core Angle: 70°.													
675.0	683.3	QUARTZ - SERICITE - GRAPHITE PHYLLITE WITH SULPHIDES Similar phyllites and mineralization as 569.7-669.6'. 15% pyrite, 12% lead-zinc.	8.3	1527	675.0	683.3	8.3	4.35	5.58	1.82			36.11	46.31	15.11
		Core Angle: 60° @ 676-683'.													

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
683.3	689.0	QUARTZ - BARITE - FELDSPAR WITH SULPHIDES													
		40-45% quartz, 5-10% barite, 30% pyrite, 11% lead-zinc. Note, one remnant of sericite-graphite. Moderate amount of carbonates	5.7	1528	683.3	689.0	5.7	3.90	7.99	1.62			22.23	45.54	9.23
		Sphalerite range from light to medium brown (above section sphalerite dark brown) Minor leach vugs.													
		Rock hard, massive.			675.0	689.0	14	4.17	6.56	1.74	Weighted Average		58.34	91.85	24.34
		Core Angle: 45° @ 684', 70° @ 687'.													
689.0	706.0	QUARTZ - SERICITE - GRAPHITE PHYLLITE WITH SULPHIDES													
		50-60% quartz, 20-30% sericite, 2-5% graphite phyllite, 2-3% pyrite, 0.2-6% lead-zinc. Mainly thinly banded quartzose-feldspar foliations of sericite graphite, sometimes thin bands. Well foliated sericite-graphite. Sulphides mainly as dissem. within quartzose bands.	5.7/ 5.7		689.0	694.7		Estimate 0.2% lead-zinc							
			7.1	1529		701.8	7.1	2.13	4.26	.94					
		Rock weakly competent.	4.2/ 4.2			706.0		Estimate 0.04% lead-zinc.							
		689-694.7' -- upper 1.7' 60% bleached, followed by quartz veinlet 0.7', 15-2% pyrite (av. 4%) 0.2% lead-zinc.													
		-701.8' -- 2-3% pyrite, 6-3% lead-zinc (av. 4.5%) except 689-700.2 (60% pyrite)													
		-706.0' -- 0.2% pyrite, spots lead-zinc to 703' only.													
		Core Angles: 70° @ 690-694', 75-80° @ 695-703', 70° to 706'.													

DIAMOND DRILL RECORD

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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
706.0	770.6	QUARTZ - SERICITE ± GRAPHITE PHYLLITE Light to medium gray.													
		40-45% quartz, 0-3% graphite (local) light to medium gray, thinly foliated, local F1 moderately developed. 725.5-731.5' moderate shearing with 1.3' bull quartz at upper end. A few quartz veinlets. Generally rock not competent.	18/18		706.0	724									
			8.5/10			734.0									
			5.8/6			740.0									
		Core Angles: 70° to 711', 75-80° to 722', 60° @ 723' (50° healed shear at 722') 70o @ 724', 75o @ 733', 70o @ 736',	1.8/6			746.0									
			5.8/6			752.0									
		shears at 738-739' @ 60° to core, 80° @ 740', 70-65° @ 747-751', shear at 751-752, 70-65° @ 752-770',	3.7	1530		755.7	3.7	6.90	9.32	3.62					
		shears @ 758.8-756.5', 759.3-764.7'. wrong 765.8	1.3/1.3			757.0									
			5.6/6			763.0									
		Note: Massive sulphide bands @ 752-753.2' and at 755.0-755.7' with minor sulphide between. Av. 12% pyrite, 8% lead-zinc	4/4			767.0									
			3.6/3.6			770.6									
		Bleached buff sericite at 751-752'.													
770.6	780.0	QUARTZ - SERICITE PHYLLITE Bleached buff.													
		45-50% quartz, totally bleached, 0.2% pyrite as scattered blebs and streaks. F1 moderately developed. Sericite as thin foliations. Rock massive and moderately competent.	9.4/9.4		770.6	780.0									
		Core Angles: 70° @ 771', 75° @ 772', 80-75° @ 776'.													

DIAMOND DRILL RECORD

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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
780.0	787.6	QUARTZ - SERICITE - GRAPHITE PHYLLITE WITH SULPHIDES													
		50-60% quartz, 0.2-0.4' bands of bleached sericite (barren), 1-2% graphite as thin foliations from 785.3-787.6'.	7.6	1531	780.0	787.6	7.6	6.90	10.18	3.65					
		780-785' -- 20% pyrite, 20% lead-zinc. Quartz-feldspar breccia in sulphide matrix.													
		-787.6'- 12% pyrite, 7% lead-zinc													
		Core Angle: 65-70°.													
787.6	798.6	QUARTZ - SERICITE PHYLLITE Medium gray.													
		45-50% quartz, thinly foliated and/or thinly banded. Bleached buff sericite to 790.5'.	11/11		787.6	798.6									
		Many tight shears to 796', more sheared at 796-798.6', generally parallel foliation.													
		Core Angles: 55° @ 788-790', 75 °@ 791-795', 60° @ 796'.													
798.6	811.6	QUARTZ - SERICITE ± GRAPHITE PHYLLITE WITH SULPHIDES													
		45-50% quartz, 1-5% graphite, 3% pyrite (except 10% pyrite at 798.6-800.3') 0.2-1% lead-zinc (except 9% at 798.6-800.3')	1.7	1532	798.6	800.3	1.7	3.98	4.02	1.47					
		Light to medium gray, banded. A few slips, shears and fractures Rock not competent.	5.7/ 5.7			806.0									
		Core Angle: 60° @ 799', 77 °@ 802-811'.	5.9/	1533		811.9	5.9	1.10	1.52	.44					

DIAMOND DRILL RECORD

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PROPERTY

LATITUDE BEARING OF HOLE STARTED

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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
811.6	821.	QUARTZ - SERICITE PHYLLITE													
		40-45% quartz, totally bleached buff, 0.3% pyrite unevenly mineralized. A few specks and streaks of lead-zinc -- chiefly lead. Slightly talcy.	4.1/ 4.1		811.9	816.0									
		Local F1. A few fractures, tight slips and shears, slightly fissile locally.	4.2/ 5.0			821.0									
		Core Angle: 75°.													
821.	873.0	QUARTZ - SERICITE PHYLLITE Altered - 30-80% bleached													
		40-55% quartz, minor chlorite, minor scattered lead-zinc, 0.2% pyrite, mineralized locally as blebs and streaks along foliation	0.9/ 2		821.0	823.0									
		Odd bleb of pyrrhotite. Note -- galena often occurs without sphalerite present. Quartz veinlets common.	34/34 4:6/7		823.0	857.0 864.0									
		Colour dirty buff-gray. Well foliated phyllite. Rock weak due to many slips.	9/9			873.0									
		Core Angles: 35° shear @ 823-825', 70-75° to 840', 75-80° @ 840-848', 70° @ 849-868', 75° @ 872'.													
873.0	894.0	QUARYZ - SERICITE PHYLLITE Bleached													
		40-45% quartz. Similar phyllite as section above but 95% bleached to buff colour. Odd scattered specks lead-zinc-copper, 0.2% pyrite.	21/21		873.0	894.0									
		Rock moderately competent. Tight slips common - 40° to 50° to core.													
		Core Angle: 70-75°.													

DIAMOND DRILL RECORD

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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
894.0	910.3	QUARTZ - SERICITE PHYLLITE Altered													
		Similar to 821-873' though less altered and less bleached.	16/16.3		894.0	910.3									
		Core Angles: 75° @ 895, 65° @ 898', 70-75° @ 900-909'.													
910.3	932.0	QUARTZ - SERICITE PHYLLITE Bleached. Minor sulphides.													
		45% quartz, 0.7% pyrite, totally bleached buff. 910.3-912± shear with gouge.	1.2/1.7		910.3	912.0									
		912-921.3' -- some rich narrow bands of lead-zinc, also clusters of lead-zinc in quartz veinlet. Av. 0.5% pyrite, 1.5% lead-zinc													
		929.0-932.0' -- 1.5% pyrite, 0.2% lead-zinc.													
		Rock highly sheared, soft and viable.	4.5	1534	912.0	921.3	9.3	1.10	1.83	.32					
		Core Angles: 70° @ 912', 60° @ 914-922', 70° @ 923-926', 75° @ 927-930', 40° shear @ 931-932'.	4.1/4.7			926.0									
			3/3			929.0									
			3.0	1535		932.0	3.0	.80	.43	.26					
932.0	942.0	MASSIVE SULPHIDES													
		Massive fine-grained pyrite with lead-zinc except for barren quartz-sericite-chlorite phyllite @ 933.3-934.3'. 70% pyrite,	3.2	1536	932.0	935.2	3.2	4.13	5.88	1.76			1322	18.82	5.63
		8-10% (?) lead-zinc.	8.0	1537		943.2	8.0	5.55	7.72	2.44			44.4	61.76	19.52
		Core Angles: 70-75° @ 933', 50° @ 934', 75° @ 936', 70° @ 939', 65° @ 941',. Upper and lower contact follow foliation.			932.0	943.2	11.2	5.14	7.19	2.25	Weighted Average		57.62	80.58	25.15

DIAMOND DRILL RECORD

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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
942.0	948.5	QUARTZ - GRAPHITE - SERICITE PHYLLITE WITH SULPHIDES 70% quartz, 10% graphite-sericite, 15% pyrite, 9% lead-zinc from 942-943.2', 0.1% lead-zinc from 943.2-946.9', 6% lead-zinc from 946.9-948.5'.	5.3	1538	943.2	948.5	5.3	1.22	1.08	.50					
		Core Angle: 75°.													
948.5	1009.0	QUARTZ - SERICITE PHYLLITE Medium gray. Altered.													
		948.5-950.6' -- bleached buff sericite with 0.2% pyrite and odd spots of lead zinc.	3.5/3.5		948.5	952.0									
		-- upper contact parallel foliation, lower contact @ 30° following slip.	50/50			1002.0									
		Remaining core dirty gray with much brown carbonate (ankerite) filling tight fractures. 45% quartz. Thinly banded, well foliated.	6/7			1009.0									
		Slightly fissile, not competent rock; also slips and shears, numerous, some with appreciable displacements and tilts rock formation.													
		Core Angles: 70° @ 951', 65° @ 953' (slips and shears) 75-80° @ 954-955', 70° @ 956-967', 80° @ 968' (slips @ 45o to core) 60 @ 969', 75° @ 972', 55° @ 994', 70° @ 998-1009', 70° @ 973-977', 40° @ 979', 55° @ 983', 70° @ 984-991'.													

DIAMOND DRILL RECORD

LOGGED BY F. Chow

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

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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
1009.0	1022.0	QUARTZ - SERICITE - GRAPHITE PHYLLITE WITH SULPHIDES													
		Quartzy rock but highly fractured. Recovery very poor. Thinly banded quartzose-feldspar with sericite-graphite (5% ?), 8%	3.3	1539	1009.0	1018.0	9.0	.68	.62	.35			11.70	Pb-Zn	
		pyrite, 0.5% lead-zinc. Doubt any high grade lead-zinc.	0.6	1540		1022.0	4.0	.57	1.27	.29			7.36	Pb-Zn	
		Core Angle: 75-80°.			1009.0	1022.0	13.0	1.5	Pb-Zn				19.06	Pb-Zn	
1022.0	1036.0	QUARTZ - SERICITE PHYLLITE Medium gray. Altered.													
		30% quartz, soft fissile. Intensely sheared, probably fault	1.3/4		1022.0	1026.0									
		@ 1026-1028'. Shearing 40-70° to core. Rocks distorted.	0.5/2			1028.0									
			7.6/8			1036.0									
		Core Angles: 75° @ 1024', 35° @ 1028', 70° @ 1029', 60° @ 1032', 30° @ 1033', 65° @ 1035.													
1036.0	1067.8	QUARTZ - SERICITE PHYLLITE WITH SULPHIDES Bleached buff.													
		30-60% quartz, varies with sericite and/or sulphide content.	13.4/14		1036.0	1050.0									
		Zone contains approximately 2% magnetite in richer sulphide section.													
		1036-1050' -- sericitic, bleached buff, 3.5% pyrite average,													
		blob of pyrrhotite and odd spots of lead-zinc. Fl	1.8	1541	1050.0	1053.2	3.2	.48	.78	.26					
		local. Tight slips, multiple fractures. Siliceous from 1043 to 1049'.													

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
		1050-1053.2' -- 15% pyrite, 1% lead-zinc. Sericitic.	9.0	1542		1062.9	9.7	1.65	1.92	.59					
		-1062.9' -- 35% pyrite, 2% magnetite, 6% lead-zinc, spots of chalcopyrite, blob of pyrrhotite													
		-- quartzy, massive and hard	2.6	1543		1065.6	2.7	.40	.62	.26					
		-1064.6' -- sericitic, bleached buff, 5% pyrite, spot of lead-zinc													
		-1065.6' -- 30% pyrite, minor magnetite, spots of copper, 2% lead-zinc													
		-1067.8' -- quartzy, buff sericite and tan carbonate, negligible sulphides.	2.2/2.2			1067.8									
		Core Angles: 65° to 1041', 70° to 1052', 75° to 1067', 70° @ 1068'.													
1067.8	1085.5	QUARTZ - SERICITE PHYLLITE Altered. Light gray.													
		35-40% quartz, dirty light gray with much tan colour carbonates ~~Rough surface - leached (?) No sulphides.~~	7.2/7.2		1067.8	1075.0									
		~~Fl poor. Many small shears, some with near gouge material. No sulphides.~~	3.8/5			1080.0									
		Core Angles: 75° to 1071', 65° @ 1072-1082', 70° @ 1083'.	5/5.5			1085.5									
1085.5	1095.3	QUARTZ - GRAPHITE PHYLLITE and QUARTZ VEIN													
		1085.5-1087.5' -- quartz-sericite-graphite, 5% graphite, good Fl	1.5/1.5		1085.5	1087.0									
		-1088.1' -- quartz - graphite													
		1090.3 -1090.3' -- quartz-graphite, black, fissile, 0.3% pyrite in foliation. Thinly foliated.	7.2/8.3			1095.3									

1088.1 - 1090.3 = Qtz Vein

DIAMOND DRILL RECORD

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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
		Core Angles: 70 @ 1086', 60 @ 1088', 85 @ 1091-1095'.													
1093.5	1101.0	QUARTZ - SERICITE PHYLLITE Altered. Buff-gray. 55% quartz. Firm but parts readily along sericitic planes. F1 well developed. Negligible pyrite.	4.8/ 5.7		1095.3	1101.0									
		Core Angle: 75-80°.													
1101.0	1111.5	QUARTZ - GRAPHITE PHYLLITE Similar to 1090.3-1095.3'.	9.4/		1101.0	1111.5									
		Core Angle: 70° at 1102', 85° at 1104-1110'.													
1111.5	1132.7	QUARTZ - GRAPHITE ± SERICITE PHYLLITE WITH SULPHIDES													
		45-55% quartz, 2% pyrite in graphitic sections and 15% pyrite within sericitic band at 1120.5-1123.1'. The latter also	1.5/1.5 1.7/3		1111.5	1113.0 1116.0									
		contain more lead-zinc -- 7%. Graphite phyllite generally show 1-3% lead-zinc as dissem; also as rich bands.	3.6	1544		1119.8	3.8	1.33	2.88	.59			5.05	10.94	2.29
			6.2	1545		1126.1	6.3	2.23	3.78	1.15			14.05	23.81	7.25
		Rock firm but parts readily.	5.3	1546		1131.6	5.5	1.15	1.62	.53					
		Core Angle: 70-75° undulating.	1.1/ 1.1			1132.7		Estimate 0.1% lead-zinc.							
					1116.0	1126.1	10.1	1.89	3.44	.94	Weighted Average		19.10	34.75	9.54

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.

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
1132.7	1146.1	QUARTZ - SERICITE PHYLLITE and MINOR GRAPHITE PHYLLITE WITH SULPHIDES Bleached													
		Seritic (30% quartz), bleached phyllites with altered light to medium gray phyllite @ 1135.3-1136.5' and at 1141.3-1145'.	5.3/ 5.4		1132.7	1138.1		Estimate 0.1% lead-zinc							
		Short bands of densely dissem. lead-zinc-pyrite in quartz-barite matrix occur at 1138.1-1138.9' and at 1140.6-1141.3' with	3.2	1547	1138.1	1141.3	3.2	3.60	4.38	1.47					
		fragments of similar sulphides in sheared talcy sericite between the two bands. Sphalerite light brown. 14% lead-zinc in sulphide bands and fragments. Negligible sulphides within remaining phyllites.	4.8			1146.1		Estimate 0.2% lead-zinc							
		Core Angle: 70-75°.													
1146.1	1164.6	MASSIVE and NEAR MASSIVE SULPHIDES in QUARTZ - BARITE													
		1146.1-1153' -- densely dissem. Pyrite-lead-zinc in quartz-barite, each discreetly mineralized, Sphalerite	6.9	1548	1146.1	1153.0 (1157.1)	6.9 (4.1)	5.33 (3.36)	7.57 (1.74)	2.50 (1.00)			36.777 13.858	52.233 7.134	17.250 4.100
		colour ranges from honey to light brown to bright medium brown. Some dull light brown mineral --	4.3	1549		1157.3	4.3 (0.2)	3.38 (3.35)	1.74	1.00			14.534 .676	7.482 .348	4.30 .20
		maybe sphalerite or carbonate. -- 20-50% pyrite, 22% lead-zinc. Two 0.3' bands of gray phyllite.	3.7	1150		1161.0	3.7	3.75	.59	.82			13.88	2.18	3.03
		1153-1157.3 -- massive pyrite (65%) with bands and clusters of ~~lead-zinc. Also, 1% magnetite as blebs and~~ lenses. No barite. ~~-- 12% lead-zinc.~~	3.6	1151		1164.6	3.6	2.05	2.64	1.09			7.38	9.50	3.92
					1146.1	1157.1	11.0	4.60	5.4	1.94			50.635	59.367	21.35
					1153.0 1157.1	1164.6	11.6 7.5	3.09 2.92	1.65 1.60	.99 .95	Weighted Average		35.79 21.936	19.16 12.028	11.25 7.150

DIAMOND DRILL RECORD

LOGGED BY F. Chow

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
		1157.3-1158.9' -- 75% quartz with pyrite, minor anchorite and magnetite, 0.3% lead-zinc 1158.9-1161.0' -- 20% pyrite with quartz, 1-2% ankerite, 5% lead-zinc 1161.0-1163.0 -- 50% with pyrite and quartz, 0.2% lead-zinc 1163.0-1164.6' -- 55% pyrite with quartz, 1.5% magnetite, minor ankerite, 14% lead-zinc Core Angle: 70°. Upper contact 45° following slip.													
1164.6	1227.0	QUARTZ - SERICITE PHYLLITE Bleached 45-55% quartz, 1-2% ankerite, 1-3% pyrite, odd spot of arseno, copper and probably lead-zinc. Phyllite totally bleached to buff colour. Rock weakly competent to 1195'. Many slips and probably shears from 1195-1227'.	3.2/3.4 20/20 9/9 2.8/3		1164.6	1168.0 1188.0 1197.0 1200.0									
		Shear with brecciation at 1200-1201', fault gouge at 1196.3-1197' (40°) shearing, shear with fuschite at 1203'.	7/8 9.7/10 7.7/9			1208.0 1218.0 1227.0									
		Core Angles: 40° @ 1166', 55° @ 1174', 70-75° @ 1170-1176', 80° @ 1177-1180', 70-75° @ 1181-1196, 55° @ 1198', 65° @ 1201', 80° @ 1205-1216', 75° to 1227'.													
1227.0	1239.0	QUARTZ - GRAPHITE ± SERICITE PHYLLITE WITH SULPHIDES 60-70% quartz, 20% pyrite, scattered spots of lead-zinc, abundant chalcopyrite filling gashes (0.1% copper) Banded dissem pyrite	11/12		1227.0	1239.0		Estimate 0.06% lead-zinc 0.1					copper		

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
		in quartzose-feldspar and thinly foliated graphite-sericite in siliceous matrix. Highly fractured, thread size to 1" width often containing pyrite and phyllite fragments within quartz-feldspar filling. Major frature at 30° to core. Rock well healed and hard.													
		Core Angle: 70° @ 1228', 65° @ 1229-1235', 70° @ 1237'.													
1239.0	1256.0	QUARTZ - SERICITE and QUARTZ- SERICITE GRAPHITE PHYLLITE Altered													
		40-50% quartz variable with alteration. Alternating sections of totally bleached and partly bleached or altered phyllites.	14.5/17		1239.0	1256.0									
		2-3% sulphides (pyrite) Major shearing from 1242.7-1247'. Many other tight shears or slips. Rock moderately fissile or parts readily along foliation.													
		Core Angles: 70° to 1250', 75-80° @ 1251-1256'.													
1256.0	1300.0	QUARTZ - SERICITE PHYLLITE Bleached. Minor sulphides.													
		50% quartz, totally bleached buff. 0-5% (av.1.5%) pyrite. Odd spots of lead-zinc.	17.5/18		1256.0	1274.0									
		Rocks undergone much stress and alteration, shearing and fracturing. Major shearing at 1260-1282' with local brecciation	1.8/3			1277.0									
		occuring, and development of fuschite between 1277-1281. Other highly altered section at 1294.3-1299.5', leached, much carbonates and fuschite. Rocks weak.	20.7/23			1300.0									

DIAMOND DRILL RECORD

LOGGED BY F. Chow

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

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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
		Core Angles: 75-80° to 1268', 60° @ 1271', 40° @1273, 70° @ 1277', 40° @ 1282', 70° @ 1283', 70-75° @ 1284-1294' 30°-20°-60° @ 1295-1302'.													
1300.0	1334.5	QUARTZ - SERICITE - GRAPHITE PHYLLITE Medium gray 40% quartz, 45-55% sericite, 5-10% graphite. Thinly foliated. Highly fissile to 1324', becoming more firm and massive towards 1344'.	9.6/14		1300.0	1314.0									
			3.3/8			1322.0									
		Much shearing from 1303.5-1323' with brecciation at 1309-1310'. No sulphides except two blobs of pyrrhotite-pyrite association with quartz lenses.	12/12.5			1334.5									
		Core Angles: 60° @ 1303', 55° @ 1305-1307'-1309', 70° @ 1313', 65° @ 1219', 70° @ 1324', 75° @ 1329-1443'.													
	1334.5	END OF HOLE													
		REMARKS: 1. Lost circulation at C + 505'.													
		2. Hole cemented from 1334' to collar + 43' (bedrock depth at 37')													

DIAMOND DRILL RECORD

LOGGED BY F. Chow

PROPERTY VANGORDA, GRUM JOINT VENTURE

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PA GRID HIW (10870.222m)

LATITUDE 6N 35663.46N BEARING OF HOLE STARTED April 17, 1975 D.S.

CLAIM No. CHUCK 5

DEPARTURE 75 + 89W 24958.23E (7607.268m) DIP OF HOLE -90° @ Collar COMPLETED April 25, 1975 N.S.

4313.35' (1314.709m) Tropari @ 440' Dip=77° BRG =not taken Proposed: 1150'

ELEVATION 794.5 PA Topog DIP TESTS @ 780' Dip=83.5° BRG=not taken DEPTH Ultimate: 1277'

4271.4' ASL @ 1277' Dip=83° BRG=S60° 39.5'E adjusted

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	40+	OVERBURDEN	.02		0	40+									
		¼' granitic rock cored at 40'.													
40+	53	QUARTZ - SERICITE PHYLLITE Altered													
		60% quartz, 35-40% sericite, 2-3% light salmon colour carbonate (?), minor blebs of pyrite. Altered, light gray.	13/13		40+	53									
		Rock massive with 1/8" quartz bands. Carbonate (?) dissem. Rusty on fracture planes to 112'.													
		Core Angles: 75° to 50', 65° @ 52'.													
53	112	QUARTZ - SERICITE PHYLLITE													
		50-60% quartz, 40-50% sericite. Medium gray, thinly banded, often striped. F1 throughout but not well developed.	16.3/20		53	73									
			0.8/2			75									
		Rock moderately fissile, a few fractures, minor narrow shears and slips. Weakly competent.	15/15			90									
			4/10			100									
		Core Angles: 60° @ 53-102', 65-70° @ 103-108', 60° @ 109-112'	12/12			112									
112	119.6	QUARTZ - SERICITE PHYLLITE Bleached buff.													
		50% quartz. Thinly foliated, moderately fissile. F2 present, well developed. F1 locally not well developed.													
		Core Angle: 60° to 119'.													

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
119.6	128.5	QUARTZ - SERICITE PHYLLITE													
		Similar to 53-112' but highly fractured. Sheared locally. Leach holes.	8.6/ 8.9		119.6	128.5									
		Core Angles: 75° @ 120', 60° @ 121', 70° @ 124', 75° to 128'.													
128.5	204.0	QUARTZ - SERICITE PHYLLITE													
		65-70% quartz. Light to medium gray. Nearly uniform banding, more often striped. F1 well developed.	69/69 6/6	.5	128.5	198.0 204.0									
		Moderate fracturing, tension cracks. Occasional slips and shears. Rock generally firm and moderately competent.													
		Core Angles: 65° @ 130', 50° @ 133'-136', 70° to 144', 60° to 147', 75° to 156', 60° to 158', 75° to 164', 70° to 204'. Slips @ 145'-150' parallel core angle, @ 173.5', 177.5', 184.4', 189.5', 194', all near parallel C.A.													
204.0	267.0	QUARTZ - SERICITE PHYLLITE													
		Similar to 128.5'-204' except rock undergone much stress, shearing along foliation sometimes gougy phyllite ¼-½" wide. A few short altered sections with minor development of chlorite. Non-competent rock.	40/42 3/5.5 15/15	.5	204.0	246.0 251.5 267.0									
		Core Angle: 70-65°.													

DIAMOND DRILL RECORD

LOGGED BY F. Chow

PROPERTY

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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
267.0	303.0	QUARTZ - SERICITE PHYLLITE													
		45% quartz. Dark gray, thinly foliated or banded. Fissile.	11/11		267.0	278.0									
		Rock slightly deformed through stress -- small slips and shears.	2.7/4			282.0									
		Local F1 developed. Rock weak.	19/21			303.0									
		Core Angles: 65° to 271', 80° @ 273', 70-65° @ 274-299', 40° @ 301', 50° @ 303'.													
303.0	350.7	QUARTZ - SERICITE PHYLLITE													
		45-50% quartz. Medium gray, thinly foliated, also banded.	5.8/7		303.0	310.0									
		Moderately fissile and parts readily. Numerous quartz veins or	17/17			327.0									
		lenses varying from ¼"-2' in width.	5.7/8			335.0									
			15.2/15.7			350.7									
		331'-350.7' -- Moderate fracturing and local shearing. Gouge at 334.5-335'. Generally, rock not competent.													
		311' -- ½" band of dissem. lead-zinc.													
		336'-346' -- Odd bleb of pyrrhotite (magnetic)													
		Core Angles: 75° @ 304'-306', 70-75° to 342' to 350'.													
350.7	392.0	QUARTZ - SERICITE PHYLLITE													
		Similar to 128.5-204.0'.	35/35.8		350.7	386.5									
		Core Angle: 75-80°.	5.5/5.5			392.0									

DIAMOND DRILL RECORD

LOGGED BY F. Chow

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
392.0	421.5	QUARTZ - SERICITE - GRAPHITE PHYLLITE													
		55% quartz, 40-45% sericite, 0-2% graphite. More graphitic toward end. Medium gray otherwise similar rock to 350.7-392'.	29.5/ 29.5		392.0	421.5									
		Rock slightly less competent than sections above, but not competent from 408.5' to end of section. Highly sheared @ 420'-421'.													
		418.8'-419.3' -- minor pyrite, lead-zinc													
		Core Angles: 70° to 407', 65-70 to 421°.													
421.5	425.7	MASSIVE SULPHIDES													
		Find-grained sulphides = 65-70% pyrite, 15% lead-zinc, remnant of quartz-sericite-graphite ribbons @ 424.5'-425.7'. Upper	4.2	1185	421.5	425.7	4.2	7.71	12.62	3.09			32.382	53.004	12.978
		lower contact @ 60° parallel core angle.													
		Core Angle: 60-65°.													
425.7	437.0	QUARTZ - SULPHIDES - SERICITE - GRAPHITE PHYLLITE													
		70% quartz, varying sulphides from 7-40%, 2-10% sericite, 0-1% graphite.	2.3	1186	425.7 428.0	428.0 431.5	2.3 (3.5)	2.38 (1.13)	4.08 (2.64)	0.83 (0.44)			5.474 3955	9.384 9.240	1.909 1.540
		Siliceous and hard but highly fractured, numerous leach holes. Rock weakly competent to moderate.	5.4	1187	431.5	433.7	5.7 (2.2)	1.13	2.64	0.44			2.486	5.808	0.968
		425.7'-428.0' -- 25% pyrite, 10% lead-zinc "ribbon quartz-sericite-graphite.	3.1	1188		437.0	3.3	2.93	5.64	1.18			9.669	18.612	3.894
		-433.7' -- 7% pyrite, 4% lead-zinc													
		-437.0' -- 12% pyrite, 12% lead-zinc, quartz-sericite- graphite brecciated.			421.5	431.5	10.0	4.18	7.16	1.64	(56.329 gm/mt)		41.511	71.628	16.427
		Core Angle: 60° @ 426'.	(wt. Average		431.5	437.0	5.5	2.21	4.44	0.584	(20.319 oz/ton)		12.155	24.420	4.842

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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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
437.0	483.3	QUARTZ - SERICITE ± GRAPHITE PHYLLITE WITH SULPHIDES Bleached													
		70% quartz, 15-20% sericite, 0-2% graphite, 4-8% pyrite and 2-6% lead-zinc to 472.4'; 20% pyrite, 10% lead-zinc to 483.0'.	5.2	1189	437.0	446.0	9.0	1.60	2.88	.59					
		Grayish-white quartose-feldspar with silvery sericite, also light gray sericite. Threads and bands of sulphides. F2 mineralization. Abundant fuschite @ 443.5'-443.7' and @ 471.2'-471.9'. F1 poorly developed and also moderately well developed.	4.3	1190		450.8	4.8	3.98	3.12	1.03			19.104	14.976	4.944
			5.5	1191		456.6	5.8	3.60	2.40	.83			20.88	13.92	4.814
		Rock moderately competent. Siliceous and hard, many fractures and worm holes. Tend to part along foliation planes.	8.7	1192		465.4	8.8	1.68	2.46	.65					
		Core Angles: 60° to 447', 55° to 461', 60° to 472', (40° @ 464') 50-65° @ 473'-483'.	7.0	1193		472.4	7.0	.98	1.64	.44					
			2.6	1194		475.0	2.6	3.15	4.92	1.32			8.19	12.792	3.432
			8.3	1195		483.3	8.3	4.20	8.20	1.76			34.86	68.06	14.608
					446.0	456.6	10.6	3.97	2.72	.92			39.984	25.896	9.758
			Wt. Average		472.4	483.3	10.9	3.94	7.42	1.65			43.695	80.852	18.040
483.3	510.0	QUARTZ - SERICITE PHYLLITE Altered with bleached sections													
		40-45% quartz. Light to medium gray except buff colour at 483.3' -485.3', 496.5'-500', and at 508'-510'. 3% lead-zinc with pyrite	1.6/1.7		483.3	485.0									
		at 485.3'-485.8'. Minor pyrite association with quartz as fracture filling.	7.6/10			495.0									
		Thinly foliated but massive. Many fractures, slips and tension cracks. Rocks moderately competent.	9.1/10			505.0									
		Core Angles: 65° @ 485', 75° @ 489'-497', 55° @ 498-502', 40° @ 503'-504', 75° @ 505'-509'.	9/10			510.0									

DIAMOND DRILL RECORD

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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
510.0	515.0	FAULT													
		Gray-dark gray gouge.	0.3/5		510.0	515.0									
515.0	520.0	QUARTZ - SULPHIDES - SERICITE													
		70% quartz-feldspar, 15-20% pyrite, 4.5% lead-zinc, 2-5% sericite Siliceous and hard, fractured and leached. Rock weakly competent. Breccia @ 519.2'-520'.	3.6	1196	515.0	520.0	5.0	1.78	3.12	.77					
		Core Angle: 70-75°.													
520.0	521 (?)	FAULT													
		Light gray gouge.	0.4/1		520	521									
521	525	QUARTZ - SERICITE PHYLLITE													
		45-50% quartz. One ½" band of lead-zinc-pyrite. Light to medium gray, thinly foliated.	2.6/4		521	525									
		Intensely sheared, ½" faults with fragments and gouge @ 524'.													
		Core Angle: 50-70°.													
525	634.6	QUARTZ - SERICITE - SULPHIDES ± GRAPHITE													
		55-65% quartz-feldspar, 15-20% (?) sericite, 0-1% graphite, 5-20% pyrite. Variable lead-zinc. Grayish-white to grayish matrix.	1.6	1197	525.0	529.0	4.0	1.58	2.88	.74					

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
		525' -536.2' -- intensely sheared and fractured; parts gougey	7.5	1198		538.0	9.0	1.80	1.80	.83			16.2	16.2	7.47
		538.6'-558' -- moderately sheared sections 558' -634.6' -- siliceous and hard, leach holes are many, rock moderately competent.	5.8	1199		544.0	6.0	1.30	1.20	.56			7.8	7.2	3.36
					529.0	544.0	15.0'	3.16	Pb-Zn						
		F1 well developed to 602'. Both F1 and F2 mineralization from 525'-558'. Mainly F2 mineralization from 558'-634'.	10	1200	544.0	554.0	10.0	1.55	3.06	.77			15.5	30.6	7.7
		525'-529.3' -- quartz-sericite-sulphides, 20% pyrite, 3.5% lead-zinc.	4	1301		558.0	4.0	1.35	2.58	.47			5.4	10.32	1.88
					544.0	558.0	14.0'	1.49	2.92	.68			20.9	40.92	9.52
		-544.0' -- quartz-sericite-sulphides, 10% pyrite, 2% lead-zinc.	11	1302		569.0	11.0	2.45	4.56	1.18			26.95	50.16	12.98
		-558.0' -- quartz-sericite-sulphides, 4.5% pyrite, 3.5% lead-zinc.													
		-569.0' -- quartz-sericite-sulphides ± graphite, 15% pyrite, 9% lead-zinc.	9.4	1303		578.4	9.4	2.45	4.56	1.18			23.03	42.864	11.092
		-578.4' -- quartz-sericite-sulphides, 8% pyrite, 7.5% lead-zinc.			558.0	578.4	20.4'	2.45	4.56	1.18			49.98	93.024	24.072
		-588.8' -- quartz-sericite-sulphides, 5% pyrite, 4.5% lead zinc.	10.4	1304		588.8	10.4	1.93	3.78	.85			20.072	39.312	8.84
		-595.7' -- quartz-sericite-sulphides, 6% pyrite, 4% lead-zinc.													
		-602.6' -- quartz-sericite-sulphides ± graphite, 8% pyrite, 5% lead-zinc.	6.9	1305		595.7	6.9	1.33	3.78	.65			9.177	26.052	4.485
		-614.7' -- quartz-sericite-sulphides ± graphite, 6-25% pyrite (Av.8), 7.5% lead-zinc.													
		-619.1' -- quartz-sericite-sulphides±graphite, 20% pyrite, 2.5% lead-zinc.	6.9	1306		602.6	6.9	1.70	2.88	1.03			11.73	19.872	7.107
		-624.0' -- quartz-sericite-sulphides, sericitic, Av 12% pyrite 6% lead-zinc.			578.4	602.6	24.2'	1.69	3.52	.84			40.979	85.266	20.432
		-632.8' -- quartz-sericite-sulphides±graphite, 25% pyrite, 17% lead-zinc.	5.4	1307		608.0	5.4	2.13	4.92	1.29			11.502	26.568	6.966
		-634.6' -- quartz-sericite-sulphides±graphite, 25% pyrite, 2% lead-zinc.													

DIAMOND DRILL RECORD

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PROPERTY

LATITUDE BEARING OF HOLE STARTED

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			6.6	1308		614.7	6.7	4.28	5.22	1.82			28.676	34.974	12.194
		Core Angle: 70-75° throughout.	4.3	1309		619.1	4.4	3.38	1.76	.94					
			4.9	1310		624.0	4.9	3.30	4.80	1.18			16.17	23.52	5.782
			8.8	1311		632.8	8.8	5.45	9.85	2.38			47.96	86.68	20.944
			1.8	1312		634.6	1.8	1.10	3.00	.59					
					602.6	614.7	12.1'	3.32	5.08	1.58			40.178	61.542	19.160
					619.1	632.8	13.7'	4.68	8.04	1.95			64.13	110.20	26.726
634.6	655.9	QUARTZ - SERICITE PHYLLITE Altered, 30% bleached buff.													
		50-55% quartz-feldspar, thinly banded, gray buff. F1 moderately well developed. ½" pyrite, lead-zinc @ 637.4' and 0.6'@ 639.3' -639.9'.	21/21.3		634.6	655.9									
		Minor shearing and fracturing @ 641'-646', otherwise rock is moderately competent.													
		Core Angles: 60° @ 635'-648', 65-75° to 655'.													
655.9	721.5	QUARTZ - SULPHIDES - SERICITE ± GRAPHITE PHYLLITE													
		60-70% quartz-feldspar, 10-35% pyrite, 2-12% lead-zinc, 2-30% sericite, 0-2% graphite. Local F1, poor to 680'. F2 mineralization	5.7	1313	655.9	661.6	5.7	4.50	4.26	1.62					
		to 680'. F1 moderately developed from 680'-722'. F1 and F2 mineralization from 680'-721.4'.	6.0	1314		667.7	6.1	.53	1.18	.29					
		Minor cracks. Rock siliceous and hard, competent to 682'. Sheared and soft phyllites @ 682'-685' and at 688'-689.5'. Com-	5.6	1315		673.3	5.6	8.00	7.80	3.21			44.8	43.68	17.976
		petent from 690.2'-721.0'.													

DIAMOND DRILL RECORD

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PROPERTY

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		655.9'-661.6' -- rich lead-zinc pyrite bands in buff sericite ± graphite, 12% pyrite, 9% lead-zinc.	5.3	1316		678.6	5.3	8.15	15.38	3.53			43195	81.514	18.709
		-667.7' -- quartz-sulphides-sericite±graphite, 25% pyrite, 2% lead-zinc.	Wt. Average		667.7	678.6	10.9	8.07	11.49	2.37			87.995	125.194	25.855
		-678.6' -- quartz-sulphides-sericite±graphite, 35% pyrite 12% lead-zinc.	3.7	1317		682.3	3.7	3.30	5.22	1.88			12.21	19.314	6.956
		-682.3' -- quartz-sulphides-sericite ±graphite, 30% pyrite 7% lead-zinc.													
		-685.0' -- quartz-sericite-sulphides±graphite, 0-5% pyrite (Av 2) spot of lead-zinc • sericitic and fissile	2.5	1318		685.0	2.7	.62	.50	.21			1.674	1.38	0.567
		-688.0 -- quartz-sericite-sulphides±graphite, sericitic but firm - Av 10% pyrite, 6% lead-zinc	3.0	1319		688.0	3.0	4.65	4.32	1.62			13.95	12.96	4.86
		-690.2 -- quartz-sericite, very sericitic, sheared and soft. No sulphides.	Wt. Average		678.6	688.0	9.4	2.96	3.58	1.32			27.834	33624	12.383
		-706.3'-- quartz-sulphides-sericitic-graphite 25% pyrite 4.5% lead-zinc.	2.2/ 2.2			690.2									
		706.3'-721.5'-- quartz-sulphides-sericite-graphite, rich pyrite, lead-zinc bands.	5.8	1320		696.0	5.8	2.00	1.84	.88			11.6	10.672	5.104
		increasing graphite towards 721.5'. This section shows many slips and fractures. Also	5.3	1321		701.3	5.3	1.73	2.52	1.09			9.169	13.356	5.777
		sulphide and phyllite breccia. Entirely cemented into hard competent rock.	4.8	1322		706.3	5.0	1.18	3.18	.74			5.9	15.9	3.7
		706.3'-719.4'-- Av 30% pyrite, 17% lead-zinc	7.1	1323		713.4	7.1	7.63	9.81	3.00			54.173	69.651	21.3
		-720.4'-- quartz-sericite-graphite barren	6.0	1324		719.4	6.0	10.23	19.10	4.12			61.38	114.6	24.72
		-721.5'-- quartz-sulphides±sericite-graphite band, 33% lead-zinc, 25% pyrite	Wt. Average		690.2	706.3	16.1	1.66	2.48	0.91			26,669	39.928	14.581
		Core Angles: 65-70° @ 656'-699', 50° @ 700-704', 75° @ 706',	2.1	1325		721.5	2.1	10.06	12.46	3.53			21.126	26.165	7.413
		70° @ 717', 80° @ 721'. Lower contact @ 60°.	Wt. Average		706.3	721.5	15.2	8.99	13.84	3.52			136.679	210.416	53433

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
721.5	729.9	QUARTZ - SERICITE PHYLLITE and SERICITE-GRAPHITE PHYLLITE													
		Bleached													
		721.5'-722.7' -- sericite + graphite, minor pyrite, Sheared along foliation.	6.4/ 8.4		721.5	729.9									
		-729.9' -- Bleached sericite, sericitic, 35-40% quartz, 1% pyrite, negligible lead-zinc, Moderately fractured. Weakly competent rock.													
		Core Angles: 65° @ 722', 70° @ 724', 50° @ 728'.													
729.9	739.4	QUARTZ - SULPHIDES - SERICITE - GRAPHITE													
		60% quartz, 15-20% pyrite, 11% lead-zinc, 3-4% sericitte, 1% graphite, spots of chalcopyrite.	9.5	1326	729.9	739.4	9.5	5.30	6.84	2.21					
		Siliceous and hard. Quartz-feldspar breccia from 729.9'-733.9', in quartz-sulphide matrix. Banded sulphides from 733.9'-739.4'.													
		Core Angles: 85° @ 731', 50° @ 734', 75° @ 736'-738', 55° @ 739													
739.4	790.8	QUARTZ - SERICITE ± GRAPHITE PHYLLITE WITH MINOR MINERALIZATION													
		Sheared and faulted.													
		45-55% quartz-feldspar, 40-45% sericite, < 0.5% graphite, 2-4% pyrite, minor lead-zinc locally. Bleached buff, also buff-gray.	13.5/ 14.6		739.4	754.0									
		750.7'-751.9' -- sulphide breccia, 30% pyrite, 1-2% lead-zinc.	21.7/ 22			776.0									

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		756.2'-767.6' -- 4% pyrite, 0.3% lead-zinc 788' -790.8' -- 2% pyrite, 2.4% lead-zinc, siliceous and hard rock.	1.7/5		776.0	781.0									
		745.5'-750.7' -- intensely sheared. Fault gouge at 746.5', 748.6' and at 750'-750.7' (20° contact)	1/4			785.0									
		767.6'-770' -- as above	1/3			788.0									
		776' -788.7' -- sheared. Main fault at 776'-781'. Rocks not competent, rather weak from 745.5'-788.7'.	2.6	1327	788.0	790.8	2.8	.40	1.00	.12			1.12	2.8	.336
		Core Angles: 70° @ 741', 65° @ 745', 70 °@ 752', 75-80° @ 761'-765', 70° @ 767'-785', 60° @ 788'-790'.													
790.8	800.0	MASSIVE SULPHIDES													
		70-80% pyrite, 10-15% quartz, local barite 10%, scattered low and rich bands of lead-zinc -- Av. 5% (?) Light brown	4.2	1328	790.8	795.2	4.4	4.73	6.00	2.21			20.812	26.4	9.724
		sphalerite common. Minor fracturing, leached bands of pyritic sulphides. Rock	5.2	1329		800.5	5.3	5.10	8.30	2.06			27.03	43.99	10.918
		firm.	Wt. Average		790.8	800.5	9.7	4.93	7.26	2.13	73.03 g/ton		47.842	70.39	20.642
		Core Angle: 60-65°.													
800.0	823.7	QUARTZ - SULPHIDES - GRAPHITE - SERICITE PHYLLITE													
		70% quartz-feldspar, 15-35% pyrite (Av. 20%) Variable lead-zinc content. Barite in sulphide rich bands. Mainly F2 mineralization. Striped banding. Quartzy and hard. F1 moderately developed, F1 nose @ 806.6'.	2.5	1330	800.5	803.0	2.5	.30	.34	.18			1.875	2.125	1.125
			5.0	1331		808.6	5.6	3.23	3.72	1.00			18.088	20.832	5.6

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PROPERTY

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		800.5'-803.0' -- 15% pyrite, 0.5% lead-zinc	3.0	1332		811.6	3.0	.23	.35	.15			0.69	1.05	0.45
		-808.6' -- 15% pyrite, 3.5% lead-zinc -811.6' -- 15% pyrite, 0.5% lead-zinc	7.0	1333		818.6	7.0	5.63	10.47	2.21			39.41	73.29	15.47
		811.6'-813' -- striped banding, 15% pyrite, 8% lead-zinc -818.6' -- massive quarts-sulphides-barite ± graphite,	3.2	1334	818.6	821.8	3.2	1.14	1.33	.44			3.648	4.256	1.408
		35% pyrite, 9% lead-zinc -821.5' -- striped, 15% pyrite, 0.3% lead-zinc	1.9/ 1.9			823.7									
		-823.7' -- buff sericite with minor chlorite and minor lead-zinc.		Wt. Av.	790.8	818.6	27.8	3.88	6.03	1.56	(53.4)		107.905	167.687	43.287
				Wt. Av.	808.6	818.6	10.0	4.01	7.43	1.59	(54.6)		40.10	74.34	15.92
		Core Angles: 70° @ 800.5'-806', 75° @ 807'-815', 70-75° @ 816'-821', slip contact at 40° @ 423.7'.													
823.7	885.4	QUARTZ - SERICITE PHYLLITE Altered													
		50-55% quartz. Medium gray thinly banded and thinly foliated. Altered looking.	4.3/ 4.3		823.7	828.0									
			48.5/ 49			877.0									
		823.7'-840' -- moderately competent rock, except for narrow shears @ 830.5', 831.7'-832.2'.	5.1/7			884.0									
		840' -856' -- not competent rock, slips, fractures and shears Shears at 842.3' (40°)-844' (50°), 844.6',	1.4/ 1.4			885.4									
		848.4'-849', 853.5'-854' (35°) with gouge. 856' -864.3' -- bleached gray-buff, many quartz-veins, 2% pyrite													
		864.3'-885.4' -- weak rocks, faults, many shears, also fractures. Main fault and sheared rocks occur @ 881'-885.4'													
		Core Angles: 75° to 827', 65-70° @ 828'-885'.													

DIAMOND DRILL RECORD

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PROPERTY

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885.4	906.0	QUARTZ - SULPHIDE - GRAPHITE - SERICITE PHYLLITE													
		55-70% quartz, 25% pyrite, 3-15% (Av. 10) graphite, 5% sericite, negligible lead-zinc-copper.	20.6/ 20.6		885.4	906.0		Est. 0.2 lead-zinc							
		885.4'-892' -- striped quartzose-feldspar bands. F1 moderately developed.													
		-897' -- quartz-sulphides-graphite + sericite breccia recemented by similar composition material.													
		897' -906' -- banded. F1 predominant, highly sheared and fractured.													
		Rocks not competent from 892'-906'.													
		Core Angles: 70° to 891', 60° @ 891.5'-897', 70° to 899', 60-65° to 905'.													
906.0	926.1	QUARTZ - SERICITE PHYLLITE WITH SULPHIDES Bleached buff													
		40-60% quartz, 2-8% (Av. 5%) pyrite, negligible lead-zinc. Bleached buff, banded. Moderate amount of fuschite at 925'-925.5'	20/20		906.0	926.0		Est. 0.1 lead-zinc							
		Many shears, larger ones at 919', 922.5' and at 925.5'. Rocks part readily along foliation.													
		Core Angle: 65-70°.													
926.1	935.7	QUARTZ - GRAPHITE PHYLLITE WITH SULPHIDES													
		55-60% quartz, 30-35% graphite, 3% pyrite, negligible lead-zinc copper except at 927'-928'. 0.5' of 25% lead-zinc plus 0.6' of massive pyrite with 2% lead-zinc. Medium gray quartzose banding with black graphitic bands.	.9/.9		926.1	927.0									
			1/1			928.0		Est. 13% lead-zinc							
		Thinly banded. F1 moderately developed. Shearing along foliation plane.	6.5/ 7.7			935.7									

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		Core Angles: 50° to 928', 70 to 934'-938'.													
935.7	938.8	QUARTZ - SERICITE PHYLLITE Bleached													
		56% quartz. Hard but fractured. Minor pyrite.	1.7/ 3.1		935.7	938.8									
938.8	970.9	QUARTZ - SERICITE PHYLLITE Altered	31/ 32.1		938.8	970.9									
		45-50% quartz. Light to medium gray, altered looking, parts fissile. Thinly foliated.													
		Intensely sheared @ 939'-942' with gougey parts @ 947'-947.5'. Fractured and fissile from 948.5'-954.9'. Fault with gouge at 954.9'-955.5'. Rock very weak.													
		Core Angle: 70°.													
970.9	1005.5	QUARTZ - SERICITE PHYLLITE WITH SULPHIDES Bleached													
		50-55% quartz (also variable) intermittent and variable content of sulphides and magnetite. Phyllite totally bleached to buff colour.	5.4/ 5.7		970.9	976.6									
		Generally low sulphides. Phyllites are soft, somewhat talcy and parts easily on foliation planes. Magnetite is common within higher sulphide bands.	4.1	1355		981.0	4.4	.15	,40	.15					
		Slips and shearing common. Fractures and cracks abundant in higher sulphide bands.	7.6	1336		989.0	8.0	2.40	2.70	.73					
		Entire section non-competent rocks.	4.4	1337		992.8	4.8	Nil	----------						

DIAMOND DRILL RECORD

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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
		970.9'-976.6' -- 3% pyrite, 0.2% lead-zinc, sericite	6.2	1338		999.9	7.1	2.63	2.40	.65					
		-977.5' -- 45% pyrrhotite, 5% pyrite, 2% lead-zinc, massive, 0.1 copper.													
		-981.0' -- as 970.9'-976.6'.	5.5/			1005.5									
		-984.2' -- 30% pyrite, 2% lead-zinc, 0.05% copper.	5.6												
		-989.0' -- Av. 40% pyrite, 6% lead-zinc, 0.1% copper, 0.4% magnetite, massive													
		-994.3' -- as 970.9'-976.6', 1.5% pyrite, 0.1% lead-zinc													
		-999.9' -- as 984.2'-989', 35% pyrite, 9% lead-zinc, 1% magnetite, 0.2% copper with chloritic clots.													
		-1005.5' - as 970.9'-976.6', 0.3% pyrite, negligible lead-zinc													
		996' -999.9' -- low angle (20°) shearing													
		Core Angles: 70° to 976' , 75°@ 977'-980', 65-60° @ 981'-989', 70° @ 989'-992', 60° @ 992', 45° @ 994', 65° @ 995' -998'. Shear with gouge @ 991.5'-992', 998.7'-999.1' @ 20° to core.													
1005.5	1026.0	QUARTZ - SERICITE PHYLLITE and QUARTZ - GRAPHITE PHYLLITE Intermediate zone													
		40% quartz. Light gray to medium gray to dark gray, differing with variable amounts of sericite and graphite. Thin banding slightly fissile. Scattered pyrite in bands and in fracture filling, scattered blebs pyrrhotite; 2% pyrite, negligible pyrrhotite.	16/ 16.5		1005.5	1022.0									
			3.2/ 4.0			1026.0									
		1019.6'-1021.3' -- minor lead-zinc, magnetite and pyrrhotite mineralization.													
		Shears at 1017.8' (parallel foliation) and at 1025'-1026'. Rocks not competent.													

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
		Core Angle: 65-70°.													
1026.0	1042.5	QUARTZ - GRAPHITE PHYLLITE WITH SULPHIDES													
		40% quartz, well foliated, thinly banded, often wider bands. 3-5% pyrite dissem in quartzose bands, minor blebs pyrrhotite (slightly magnetic) minor local lead-zinc. Local F1 folds. Rock tends to part easily along foliation within more graphitic sections.	16.5/ 16.5		1026.0	1042.5									
		Core Angles: 75° @ 1026'-1031', 70° to 1042'. Shear at 1029.7' -1030'. Parallel foliation.													
1042.5	1051.6	QUARTZ - SERICITE - GRAPHITE PHYLLITE WITH SULPHIDES													
		Similar to 1005.5'-1026', minor pyrite, lead-zinc. Local F1. Shear at 1047.5' (30°) fractured from 1045'-1048'. 1050.8'-1051.6' -- altered and 80% bleached buff.	9/9.1		1042.5	1051.6									
		Core Angles: 70° to 1048', 75-80° @ 1048'-1052'.													
1051.6	1069.4	QUARTZ - GRAPHITE PHYLLITE WITH SULPHIDES													
		60-65% quartz, 20% graphite, 5-8% sulphides - pyrite, lead-zinc, pyrrhotite.	9/9.2		1051.6	1060.8									
		Banded quartz-feldspar bands with thinly foliated graphite. F1 local. Rock hard but parts readily.	5.2	1339		1066.0	5.2	1.21	2.70	.59					

DIAMOND DRILL RECORD

LOGGED BY F. Chow

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.	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
			3.2/ 3.4			1069.4									
		1051.6'-1060.8' -- odd lead-zinc mineralization													
		-1066.0' -- 3-4% lead-zinc													
		-1069.4' -- negligible lead-zinc													
		Core Angles: 75° @ 1052'-1057', 40° shearing @ 1057'-1059'.													
		75° @ 1060'-1067', 40-25° shearing at 1068'-1069'.													
1069.4	1084.0	QUARTZ - SERICITE PHYLLITE and QUARTZ GRAPHITE PHYLLITE													
		50-55% quatz, interbanded sections of sericite and graphite	14.6/ 14.6		1069.4	1084.0									
		phyllite. Sericite phyllite totally bleached. Mainly thinly													
		banded. F1 in graphite phyllite only and locally developed.													
		Negligible pyrite, lead-zinc except at 1077'-1077.4'. 25%													
		pyrite, .5% magnetite, 6% lead-zinc. Rocks moderately competent													
		Bleached sericite phyllite at 1069.4'-1077.5', 1079.8'-1082.4'.													
		Core Angles: 75° to 1077', 70°at 1078'-1084'.													
1084.0	1101.2	QUARTZ - SULPHIDES - BARITE													
		Massive quartz-barite with banded and dissem. sulphides and	6.6	1340	1084.0	1091.0	7.0	5.60	7.75	2.44			39.20	54.25	17.08
		massive sulphides.													
		1084'-1097.7' -- quartz-barite = 40% quartz, 20% barite, 25%	6.2	1341		1097.7	6.7	4.50	6.32	2.00			30.15	42.34	13.40
		pyrite, 15% (?) lead-zinc													
		-- light brown and honey coloured sphalerite													
		-- flakey galena													

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
		1097.7'-1101.2' -- quartz-sulphides, 20% quartz, 75% pyrite, 3% magnetite, 2% lead-zinc.	3.5	1342	1097.7	1101.2	3.5	2.24	2.70	.88					
					1084.0	1097.7	13.7	5.06	7.05	2.22			69.35	96.59	30.48
		Core Angles: upper contact 55° , 70° @ 1085'-1090', 60° @ 1090'-1092', 40° @ 1093', 60° @ 1096'-1098', 40° @ 1100', lower contact @ 50°.													
1101.2	1190.2	QUARTZ - SERICITE WITH SULPHIDES Bleached													
		Totally bleached to buff colour. 45-55% quartz, Av. 10% pyrite, minor scattered blebs (minor) pyrrohtite, negligible chalchopyrite	4.8	1343	1101.2	1106.0	4.8	.14	.19	.06			1.58 Pb-Zn		
		Competent rocks.	10	1344		1116.0	10.0	.25	.33	.12			5.8 Pb-Zn		
		Note: Similar to hanging wall bleached zone of Swim "A" ore zone, except low pyrrhotite and low chalcopyrite.	30/30			1146.0									
			8.2/9			1155.0									
		1101.2'-1104' -- shear at 30-45 to core, recemented breccia along one side of core.	35/35.2			1190.2									
		1131.5'-1133' -- shear and cemented breccia 1149' -1153.7' -- 15% bands chlorite, also minor fuschite in foliation.													
					1101.2	1116.0	14.8	0.5 Pb-Zn					7.38 Pb-Zn		
		Core Angle: 60-75° undulating.													
1190.2	1202.4	QUARTZ - GRAPHITE - SERICITE PHYLLITE WITH SULPHIDES													
		65% quartz, 20% graphite, 15% sericite, 5% sulphides. Sulphides mainly pyrite, scattered chalcopyrite filled tension gashes	12/12.2		1190.2	1202.4									

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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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
		also scattered blebs pyrrhotite, negligible lead-zinc. Rock firm and hard. Minor slips and one shear at 1196.3'.													
		Core Angles: 70° to 1198', 75-80° @ 1199'-1202'. Lower contact slip contact @ 70° to core (or @ 60° to foliation)													
1202.4	1242.0	QUARTZ - SERICITE PHYLLITE WITH SULPHIDES Bleached													
		60-65% quartz, 30-35% sericite, 1-3% pyrite, a few dots or blebs of pyrrhotite. A few spots of lead-zinc and copper. Minor reddish-brown biotite (?) at 1230'-1235'. Totally bleached to buff colour, massive, siliceous and hard, competent rock. Similar to 1101.2'-1190.2' section except less sulphides.	39.6/ 39.6		1202.4	1242.0									
		1223.3'-1224.5' -- medium gray phyllitic breccia in quartz ground mass confined between two slips at 40° to core.													
		Core Angles: 75° to 1222', 60° @ 1225', tight slip (irregular) at 1225.7', 60-70° @ 1227'-1237, 80° @ 1238-1240'. 30° slip at 1241'.													
1242.0	1272.7	SHEAR AND FAULT IN QUARTZ - SERICITE PHYLLITE WITH SULPHIDES Bleached													
		Phyllites similar to 1202.4'-1242' but with fuschite and chlorite mineralization. Fuschite occure at 1243.5'-1256' with two 0.5 chlorite sections. 1-2% pyrite. A few specks of pyrrhotite, no lead-zinc-copper noted. Slightly talcy.	28/ 30.7		1242.0	1272.7									

DIAMOND DRILL RECORD

LOGGED BY F. Chow

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
		Numerous shears with gouge in some short sections of undisturbed rock, some highly fractured.													
		Core Angles: 60° @ 1242'-1247', 70° to 1251', 75° to 1255', 60-70° to 1266', 75° @ 1267'-1272'.													
1272.7	1277.0	QUARTZ - SERICITE PHYLLITE WITH MINOR SULPHIDES Bleached 60-65% quartz, 0-1% pyrite. Rocks similar to 1202.4'-1242'. Totally bleached to buff colour, slightly more talcy.													
		Core Angle: 70°.													
	1277.0	END OF HOLE													
		REMARKS: 1. A-68 located at L76W/6N by error. Should have been L78W/6N.													
		2. On second examination, the rocks at the bottom of ~~this hole are noted to be more altered and also~~ more bleached than previously noted. Although the ~~sulphide content is decreasing with depth in the~~ bleached zone, the D.D.H. should have been continued ~~until the bleached zone has ended.~~													
		3. ~~TROPARI TESTS Within the Grum Deposit.~~ (a) An open drill hole invariably contains cave ~~material~~, therefore, the normal practice of lowering the tropari survey equipment down with drill rods cannot be used.													

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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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
		Instead, the rods must be left in the drill hole with the bottom of the last rod 15-20 feet above the footage when the test is to be carried out. Then, the equipment is lowered by the wire-line cable for the test. Note: The drill bit must be replaced by a shoe for the survey equipment to go through and pass the rods.													
		(b) In D.D.H. #A-68, the tropari equipment was hung up at footage ~~780' so only a dip test was obtained. In taking the tropari~~ test at footage 1277 feet, the test equipment was attached to ~~the aluminum rods then screwed into the inner tube of the core~~ barrel and dropped into the drill hole (free fall to bottom in ~~water filled hole). To speed up the "free fall", the equipment~~ can be pumped down according to normal drilling procedure.													
		The third test taken at footage 400 feet was taken with the rods ~~still in the drill hole. Consequently only the dip can be~~ taken. In order to take a proper test to obtain the bearings of ~~the hole, the rod must be pulled up to at least Collar + 380 ft.~~ This was not done in this case because of the late hour.													
		4. Cementing -- from collar to 1277 feet.													

DIAMOND DRILL RECORD

LOGGED BY D. Basco

PROPERTY VANGORDA, GRUM JOINT VENTURE

D.D.H. No. 75-A69 PAGE 1 of 13

	HIW	LINE GRID	TROPARI	@ 402' 133° 08' (Azim True)	
LATITUDE	35942.63N (10,955.31M N)	6 + 00N	BEARING OF HOLE	802' 132° 56'	STARTED April 1, 1975
				1202' 172° 20'	
DEPARTURE	24663.40E (7517.40M E)	79 + 98W	DIP OF HOLE	- 90°	COMPLETED May 11, 1975
			TROPARI	@ 402' -82°	Proposed: 1350'
ELEVATION	4308.20' (1313.14M)	4266.20'	DIP TESTS	802' -86°	DEPTH Ultimate: 1346' (410.26M)
				1202' -85°	0 - 50' -- BW
					SIZE OF HOLE 50 - 1346' -- 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
	11.28 ft.														
0	37	OVERBURDEN	Nil		0	37									
	65.1														
37	213.5	QUARTZ - CHLORITE - SERICITE PHYLLITE Sc	3.3/23			60									
		Light to dark green, banded, striped with thin quartz layers.	1.8/6			66									
		45% quartz, 45% chlorite, 10% sericite, tuffaceous in parts.													
		F1 subvertical to F2. 22.4 48.7 64.0	0.8/6			73									
		Core Angle: 75° @ 37-110', 85° @ 110-210', 70° @ 210'.	6.6/8			81									
		11.3 13.1 55.2 55.7													
		Well developed fissility. Fault, gougy @ 37-43'; @ 181-183'.	2.9/7			88									
		Shears at 52-73'; @ 80-81'; @ 187'.													
		15.8 22.2 24.3 24.7 56.9	1.3/6			94									
			3/6			100									
			68/68			168									
			9/10			178									
			4.5/15			183									
			4.5/5			188									
			18/18			206									
			7.5/7.5			213.5									

DIAMOND DRILL RECORD

LOGGED BY D. Basco

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
65.1	110.3														
213.5	362	GRAY QUARTZ - SERICITE PHYLLITE S	12.5/12.5			226									
		Banded, fissile in parts, striped with quartz-feldspar, minor chlorite. Quartz 50%-60%, sericite 30-40%, chlorite 0-10%.	11/17			243									
		Sheared. May be faulted @ 227-256', @ 268-270', @ 273, @ 298-304'. 69.2 78.0 81.7 82.3 83.2 90.8	8/13		243	256									
		92.6 65.5 81.1 87.8 109.7 Core Angles: 75° @ 215', 85° @ 266', 88° @ 288', 90° @ 360'.	9/10			266									
		Relatively competent, except where faulted or sheared as noted above. Bleached quartz-sericite 230-267' with no sulphides. 70.1 81.4	6/7			273									
			14/15			288									
			6.5/10			298									
			9/10			308									
			6/7			315									
			48/48			362									
	129.2														
362	424	QUARTZ - SERICITE PHYLLITE S													
		Laminated, striped with quartz-feldspar. Light green chlorite foliation interspersed with more predominant quartz and muscovite	6/9		362	371									
		quartz-carbonate tension cracks fillings. F2 foliation well developed. Subvertical F1 noted in parts.	13/15			386									
		Core Angles: 80° @ 390'; 82° @ 424'. 118.9 129.2	38/38			424									
		Broken core where recovery relatively poor. May be due to drilling.													
	133.5														
424	438	BLEACHED QUARTZ - SERICITE PHYLLITE Sb													
		White calcareous, hydrothermally altered quartz-sericite-chlorite phyllite. Weak, grounded by drilling.	11/14		424	438									

DIAMOND DRILL RECORD

LOGGED BY D. Basco

PROPERTY

LATITUDE | BEARING OF HOLE | STARTED

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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
133.5 438	137.7 452	QUARTZ - SERICITE - GRAPHITE PHYLLITE Sg													
		Dark gray, alternating laminae of quartz, sericite and graphite Fissile.	8/14		438	452									
		Core Angles: 85° @ 438' (133.5), 87° @ 452' (137.7). Sheared @ 436-437' (132.9 - 133.2)													
452	150.9 495.1	MASSIVE SULPHIDE BANDS IN QUARTZ- SERICITE PHYLLITE with MINOR GRAPHITE		M-Sg											
		Mainly pyrite, some pyrrhotite in parts, minor irregularly distributed sphalerite, galena and rare chalcopyrite. Both F1 and F2 are sulphide carriers.													
		Core Angles: 86° with F1 subvertical to it.													
		Note: 471.8-473.4' -- not sampled, being barren, though bleached, crumbly, buff quartz-sericite phyllite.													
		491.6-495.1' -- is striped quartz-sericite carrying thin bands of sparse sulphides with very little graphite.													
452		-454.6' -- 50% pyrite, 13% lead-zinc	2.6	1353	452	454.6	2.6	6.31	8.39	2.68			16.406	21.814	6.968
		-459.9' -- 40% pyrite, no lead-zinc													
		-462.4' -- 50% pyrite, 4% lead-zinc	5.3	1354		459.9	5.3	.40	.39	.29			2.12	2.067	1.537
		-469.7' -- 40% pyrite, 0.5% lead-zinc													
		-471.8' -- 40% pyrite, 10% lead-zinc	2.5	1355		462.4	2.5	6.48	5.04	2.79			16.20	12.60	6.975
473.4		-481.0' -- 40% pyrite, 12% lead-zinc	7.3	1356		469.7	7.3	.27	.33	.18					
		-485.0' -- 45% pyrite, 10% lead-zinc	2.1	1357	471.8	473.9	2.1	6.76	9.39	2.68			14.196	19.719	5.628
		-490.0' -- 30% pyrite, 2-3% lead-zinc	7.6	1358	473.4	481.0	7.6	4.73	6.72	1.94			35.948	51.072	14.744
		-495.1' -- 20% pyrite, 4% lead-zinc	4.0	1359		485.0	4.0	3.90	7.40	1.65			15.60	29.60	6.60
			5.0	1360		490.0	5.0	1.08	1.84	.59					
			5.1	1361		495.1	5.1	2.45	4.08	1.03			12.495	20.808	5.253
				Wt. Av.	452.0	462.4	10.4	3.34	3.51	1.49	(51.0 g/mt)		34.726	36.481	15.480
				Wt. Av.	469.7	485.0	15.3	4.3	6.56	1.76 (60.4)			65.744	100.391	26.972

DIAMOND DRILL RECORD

LOGGED BY D. Basco

PROPERTY

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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
150.9 495.1	162.7 534.0	BLEACHED QUARTZ- SERICITE PHYLLITE WITH SOME RESIDUAL GRAPHITE		Sb-9											
		Light gray, white in sections, interlaminated quartz and sericite Some residual graphite in parts. Sparsely disseminated sulphides													
		in gray quartz stringers following F1 and F2 foliations.													
		Core Angles: av. 85° @ 496-534'. 151.2-162.7													
		495.1-496.4' -- 2% pyrite, 1.5% lead-zinc	1.3	1362	495.1	496.4	1.3	1.40	3.48	.68			1.82	4.524	0.884
		513.5-521.0' -- 10% pyrite, 4% lead-zinc	7.5	1363	513.5	521.0	7.5	.79	1.84	.32					
		521.0-527.7' -- 10% pyrite, 4-5% lead-zinc	6.7	1364	(523.1 ~ 527.7)	527.7	6.7 (4.6)	2.03	2.88	.79			9.338	13.248	3.634
		527.7-532.5' -- 10% pyrite, 4% lead-zinc	4.6	1365		532.5	4.8	2.43	4.62	1.03			11.664	22.176	4.944
				WT. AV.	490.0	496.4	6.4	2.24	3.96	0.96	(324)		14.315	25.332	6.137
				WT. AV.	523.1	532.5	9.4	2.23	3.77	0.91	(313)		21.002	35.424	8.578
534.0	164.2 538.7	QUARTZ - SERICITE - GRAPHITE PHYLLITE Sq													
		Striped. Pyrite in foliation. One foot band of massive pyrite with discrete crystals of blueish sphalerite and galena.@	7.5	1372	532.5	540.0	7.5	1.02	1.68	.53					
		529.5-530.5' section. Core angle av. 85° with subvertical F1.													
		532.5-540.0' -- 10% pyrite, 4-5% lead-zinc.													
538.7	169.7 556.9	QUARTZ - SERICITE - GRAPHITE PHYLLITE Sq													
		Striped, interlaminated quartz, sericite and lesser graphite. Visible discrete crystals of pyrite, sphalerite and galena with													
		chalcopyrite in foliation. Bleached to white quartz-sericite @ 552-554' and crumbly.													
		540-551.4' -- 5% pyrite, 1.5%-2% lead-zinc	11.4	1366	540	551.4	11.4	.20	.48	.06		0	0.52	1.248	0.156
		-556.9' -- 15% pyrite, 7-8% lead-zinc			(548.8 ~ 551.4)		(2.6)								
			5.3	1367		556.9	5.5	2.05	4.56	.79			11.275	25.080	4.345

DIAMOND DRILL RECORD

LOGGED BY D. Basco

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
169.7	200.5														
556.9	657.8	QUARTZ - SERICITE - CHLORITE PHYLLITE P - Sc													
		45% quartz, 40% sericite, 15% chlorite, gray-green, foliated, mineralized with thin bands of gray quartz carrying disseminated	6.5/8	1368	556.9	558.8 564.8	1.9	.59	1.44	.21			1.121	2.736	0.399
		pyrite, sphalerite, galena and rare chalcopyrite along foliations	1.0	1376		565.8	1.0	.72	1.54	.18					
		Firm where unsheared. Bleached breccia @ 556.9-560'. Faulted,	7.6	1373		575.0	9.2	2.15	3.48	.88			19.78	32.016	8.096
		gougey @ 569-571'. Sheared @ 593-599'.	6.0	1374		581.5	6.5	1.44	1.64	.62			9.36	10.66	4.03
			6.5	1375		588.1	6.6	2.23	4.62	1.03			14.72	30.49	6.50
		Core Angle: 80° on the average. 78° @ 556', 85° @ 657'.	3.8	1377		593.0	4.9	1.63	3.84	.79			7.99	18.82	3.87
			2.5	1378		598.7	5.7	2.28	3.66	1.00			13.00	20.86	5.7
		556.9-558.8' -- 40% pyrite, 1-1.5% lead-zinc	9.7	1379		609.0	10.3	1.47	2.61	.59					
		564.8-565.8' -- 1% pyrite, 1.5% lead-zinc	3.7	1380		612.7	3.7	.40	.92	.09					
		-575.0' -- 10% pyrite, 6% lead-zinc	3.3	1369		616.0	3.3	1.68	2.58	.71			5.54	8.51	2.34
		-588.1' -- 3% pyrite, 3-5% lead-zinc	6.0	1370		622.0	6.0	2.10	4.26	.82			12.6	25.56	4.92
		-598.7' -- 1.5% pyrite, 1.3% lead-zinc	4.0	1371		626.0	4.0	3.00	4.74	1.06			12.0	18.96	4.24
		-609.0' -- 3% pyrite, 4.5% lead-zinc	2.3	1381		628.3	2.3	1.18	2.40	.41			2.71	5.52	.94
		-612.7' -- 1% pyrite, 1% lead-zinc	3.3	1382		632.0	3.7	.58	1.38	.21			2.15	5.11	.78
		-626.0' -- 3-4% pyrite, 5-8% lead-zinc	4.6	1383		638.2	6.2	1.28	1.62	.44			7.94	10.04	2.73
		-628.3' -- 0.5% pyrite, 3.5% lead-zinc	4.9	1384		643.5	5.3	1.45	2.76	.59			7.96	14.63	3.13
		-632.0' -- 0.2% pyrite, 2% lead-zinc	5.2	1385		650.5	7.0	2.05	4.08	.88			14.35	28.56	6.16
		-658.0' -- 0.5-1% pyrite, 4-6% lead-zinc	7.5	1386		658.0	7.5	1.58	2.94	.74			11.85	22.05	5.55
				Wt. Av.	565.8	581.5	15.7	1.86	2.72	0.77	(265 g/ton)		29.14	42.676	12.126
				" "	581.5	598.7	17.2	2.08	4.08	.95			35.71	70.17	16.37
				" "	612.7	626.0	13.3	2.26	3.99	.87	Weighted Average		30.14	53.03	11.50
				" "	626.0	638.2	12.2	2.7	lead-zinc						
				Wt. Av.	548.8	558.8	10.0	1.29	2.91	0.49	(189)		12.916	29.064	4.90
	213.2														
657.8	699.6	QUARTZ - SERICITE - CHLORITE - GRAPHITE PHYLLITE Sc G													
		Dark gray, partially bleached, foliated, made up approximately 60% quartz, 25% sericite, 10% chlorite, and 5% graphite.	6.0	1387	658.0	665.0	7.0	1.63	4.08	.71			11.41	28.56	4.97
		Mineralized with pyrite, sphalerite and galena disseminated in gray quartz bands and stringers following foliations. Sheared	6.0 5.1	1388 1389		671.0 676.1	6.0 5.1	1.63 .69	3.60 1.50	.16 .59			9.78	21.6	.96

DIAMOND DRILL RECORD

LOGGED BY D. Basco

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

D.D.H. No. 75-A69 PAGE 6 of 13

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
			4.0	1390		680.1	4.0	1.30	3.12	.85			5.2	12.48	3.4
		@ 668=671' = 35° to core. Massive sulphide with quartz bands	6.0	1391		686.5	6.4	2.30	5.58	1.29			14.72	35.71	8.26
		@ 692-699.6' may carry ore grade. Firm where unsheared. Core	5.1	1392		692.0	5.5	.63	.74	.38					
		Angle averages 75° through section.	7.6	1393		699.6	7.6	5.10	8.28	2.35					
		658-671.0' -- 4-6% pyrite, 7-7.5% lead-zinc													
		-767.1' -- 20% pyrite, 2.5% lead-zinc			638.2	671.0	32.8	1.68	3.52	.63			55.35	115.40	20.77
		680.1' -- 5% pyrite, 5.5% lead-zinc									Weighted Average				
		686.5' -- 12% pyrite, 9.0% lead-zinc			676.1	686.5	10.4	1.92	4.63	1.12			19.92	48.19	11.66
		692.0' -- 15% pyrite, 0.1% lead-zinc													
		699.6' -- 15% pyrite, 13% lead-zinc													
213.2	221.9														
699.6	728.3	BUFF QUARTZ - SERICITE PHYLLITE (ore Zone)				702.0									
		Bleached, originally quartz -- sericite-chlorite-graphite.	1.5	1394	699.6	720.0	2.4	6.55	11.05	2.79			15.72	26.52	6.70
		Mineralized as noted below. Sections of high grade and low													
		grade alternate with some in waste. Quartz, ankerite and sericite	2.0	1395		705.8	3.8	.47	.30	.29					
		predominate. Core Angle averages 75-65° through the section.	2.5	1396		708.3	2.5	1.35	1.90	.76	10.2 → 1.23				
		Firm or competent rocks.	3.9	1397		712.2	3.9	.17	.21	.12					
			2.1	1398		714.3	2.1	1.78	6.42	.79					
			3.3	1399	(716.3 ~ 718.0)	718.0	(3.7)	.24	.41	.12			0.41	0.7	0.2
			3.6	1400		721.6	3.6	5.18	9.48	1.74			18.65	34.13	6.26
			2.9	1601	722.5	726.3	3.8	8.58	24.07	3.24			32.60	91.47	12.31
						720.0									
		699.6-702.0' -- 6% pyrite, 6% lead-zinc		Wt. Av.	692.0	702.0	10.0	5.45	8.94	2.46			54.48	89.45	24.56
		-705.8' -- 3% pyrite, 0.3% lead-zinc													
		-712.2' -- 1.0% pyrite, 0.3% lead-zinc		" "	718.0	726.3	8.3	6.17	15.13	2.24	Weighted Average		51.25	125.60	18.57
		712.2-714.3' -- 10% pyrite, 5-6% lead-zinc													
		-718.0' -- 4% pyrite, 0.1% lead-zinc		Wt. Av.	716.3	726.3	10.0	5.17	12.6	1.88	(64.4)		51.66	126.30	18.77
		-721.6' -- 15% pyrite, 10% lead-zinc													
		722.5-726.3' -- 20% pyrite, 30% lead-zinc													
		Note: 721.6-722.5' -- not sampled, barren.													

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:

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
221.9 728.3	230.1 755.0	QUARTZ - SERICITE - CHLORITE - GRAPHITE PHYLLITE	1.3	1602	728.7	730.1	1.4	1.13	1.82	.53					
		Light, through medium to dark gray. Bleached to white quartz sericite in parts. Fissile, broken or sheared @ 751.5-754.0'.	2.8	1603	731.4	734.4	3.0	5.74	14.43	3.09			17.22	43.29	9.27
			0.9	1604	750.5	751.5	1.0	3.98	8.29	1.50			3.98	8.29	1.50
		Bands of massive sulphides interspersed with bleached quartz-sericite @ 731.4-734.4' and 750.5-751.5'.													
				Wt. Av.	731.4	751.5	10.1	2.1	5.11	1.07	(36.6)		21.20	51.58	10.77
		Core Angle: 83° @ 729-755'. Note: 1½" massive band of mixed sulphides @ 745' in F2 foliation of talcose quartz-sericite.													
		728.7-730.1' -- 5% pyrite, 4% lead-zinc 731.4-734.4' -- 20% pyrite, 15% lead-zinc													
		750.5-751.5' -- 10% pyrite, 6% lead-zinc													
755.0	231.3 758.8	BLEACHED QUARTZ - SERICITE PHYLLITE													
		White talcose, fissile, F2 foliation 70° to core axis.	3.8		755.0	758.8									
758.8	236.0 774.3	MASSIVE BANDS OF MIXED SULPHIDES													
		Massive bands of mixed sulphides in bleached quartz-sericite phyllite. F2 in massive sulphides, 53° to core axis.	3.1	1605	758.8	761.9	3.1	9.25	19.6	4.24			28.675	60.76	13.144
		Phyllite talcose, foliated and fissile. Occasional graphite coating noted.	6.8	1606		768.7	6.8	3.08	3.84	1.44			20.944	26.112	9.792
		758.8-761.9' -- 30% pyrite, 16% lead-zinc -768.7' -- 13% pyrite, 7% lead-zinc	3.2	1607		772.0	3.3	.40	.70	.26			1.32	2.31	0.858
		-770.2' -- 4% pyrite, 1% lead-zinc 772.0-774.3' -- 15% pyrite, 8-9% lead-zinc	2.3	1608		774.3	2.3	4.20	6.60	1.88			9.66	15.18	4.324
				Wt. Av. Wt. Av.	758.8 758.8	774.3 768.7	15.5 9.9	3.91 5.01	6.73 8.77	1.81 2.32	(62.2) (79.4)		60.589 49.619	104.362 86.872	28.118 22.936

DIAMOND DRILL RECORD

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PROPERTY

D.D.H. No. 75-A69 PAGE 8 of 13

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
236.0	244.7														
774.3	803.0	QUARTZ - SERICITE PHYLLITE													
		Light to medium gray, bleached partially, minor chlorite in parts. Firm where unsheared, sparse mixed sulphides disseminations in													
		thin gray quartzy bands along foliations. Minor concentrations in places. Sheared @ 774.5-780', 799-800'.	5.7		774.3	780.0									
		Core Angle: 76° average.	5.3	1609	780.0	785.3	5.3	3.38	4.26	1.47					
		780.0-785.3' -- 7% pyrite, 8% lead-zinc	3.8	1610		789.1	3.8	.27	1.14	.06					
		~~-789.1' -- 3% pyrite, 2% lead-zinc~~	3.9	~		793.0									
		793.0-798.8' -- 3% pyrite, 2% lead-zinc	5.8	1611	793.0	798.8	5.8	1.20	1.74	.44					
803.0	254.2 834.0	QUARTZ - SERICITE - CHLORITE PHYLLITE													
		Gray-green, foliated. F2 = 72° with subvertical F1. Some quartz	31/31		803.0	834.0									
		bands, firm, good recovery for the most part. Scattered pyrrhotite,													
		rare pyrite.													
834.0	258.5 848.0	LIGHT QUARTZ - SERICITE PHYLLITE													
		Light gray. 2-36" quartz layers due to silification of the	14/14		834.0	848.0									
		phyllite. F2 varies from 75 to 80° . Rare, scattered sulphides.													
		Firm.													
848.0	279.8 918.0	QUARTZ - CHLORITE - SERICITE PHYLLITE													
		Blueish to gray-green. Foliated. Fissile, altered to white	22/22		848.0	870.0									
		quartz-sericite in which silicification occurs at intervals.													

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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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
			23/23			893.5									
		Mud seams @ 869', 887-888', 913'. Faults or shears @ 905-906', and @ 916'. Rare sulphides noted here and there along foliations	11/11.5			905.0									
		Core Angle: 76 - 80°.	12/13			918.0									
279.8 918.0	303.3 995.0	QUARTZ - SERICITE - CHLORITE PHYLLITE													
		Gray-green, interlaminated quartz-sericite and minor chlorite. Foliated. F2 foliation 75-85° to core axis, with same F1 in	72/72		918	990									
		parts seen subvertical. Sheared @ 922-923', 942-943'. Mud seam @ 944.5'. Firm or competent where unsheared.	5/5			995									
995.0	305.1 -1001.0	QUARTZ - SERICITE PHYLLITE													
		Pale, foliated, firm, few F1 noted subvertical to F2. 81° to core axis. Last 1.5' is with mixed sulphides bands in quartz-	6/6		995.0	1001.0									
		sericite. 999.5-1001.0' -- 45% pyrite, 10% lead-zinc.	5.5	1612	999.5	1005.0	5.5	5.03	8.55	2.47			27.67	47.03	13.59
1001.0	315.6 1035.3	MASSIVE MIXED SULPHIDES													
		Pyrite predominates with 65%, 8-15% lead-zinc, the rest being quartz and sericite. A few streaks of late chalcopyrite occupy-													
		ing tension fractures as well as quartz and feldspar. F2 in massive sulphides vary from 50° to 65° , a few subvertical F1													
		observed. 1001.0-1005.0' -- 65% pyrite, 20% lead-zinc.													

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
					(1005.0 ~ 1009.5)		(4.5')						21.60	24.57	9.54
		1005.0-1015.0' -- 60% pyrite, 15% lead-zinc	10	1613	1005	1015	10	4.80	5.46	2.12			48.0	54.6	21.2
		-1025.0' -- 60% pyrite, 10-15% lead-zinc -1031.0' -- 60% pyrite, 18% lead-zinc	10	1614		1025	10	4.43	4.62	1.91			44.3	46.2	19.1
		-1034.5' -- 45% pyrite, 13% lead-zinc	6	1615		1031	6	5.95	9.13	2.44			35.7	54.78	14.64
			3.5	1616		1034.5	3.5	5.48	9.51	2.41			19.18	33.29	8.47
315.6 1035.3	326.3 1070.5	QUARTZ - SERICITE - CHLORITE - GRAPHITE PHYLLITE	2.2	1617		1036.7	2.2	3.08	4.62	1.21			6.776	10.164	2.662
		Greenish-gray, striped, alternating laminae of quartz, sericite, chlorite and minor thin graphite. Foliated. F2 foliation 80°,	2.8	1618		1039.5	2.8	.37	.42	.24			1.036	1.176	0.672
		carrying pyrite, sphalerite, galena and chalcopyrite sparsely distributed along foliations with occasional cross-cutting	4.8	1619		1044.3	4.8	5.48	6.60	2.09			26.304	31.68	10.032
		veinlets of late sulphide mineralization.	6.7	1620		1051.0	6.7	1.28	1.44	.76			8.58	9.65	5.09
			5.8	1621		1056.8	5.8	.83	.60	.59			4.81	3.48	3.42
			5.2	1622		1062.0	5.2	1.42	1.16	.65			7.38	6.03	3.38
		1036.7-1039.5' -- 20% pyrite, 0.4% lead-zinc	6.5	1623		1069.5	7.5	.18	.08	.35			1.35	0.6	2.63
		-1044.3' -- 20% pyrite, 11% lead-zinc -1051.0' -- 12% pyrite, 3.5% lead-zinc	1.9	1624		1071.4	1.9	1.15	1.58	.47			2.19	3.00	0.89
		-1056.8' -- 16% pyrite, 1.5% lead-zinc -1062.0' -- 12% pyrite, 5.5% lead-zinc													
		-1069.5' -- 3% pyrite, 1.0% lead-zinc -1071.4' -- 7% pyrite, 4.5% lead-zinc		Wt. Av. Wt. Av	999.5 1025.0	1009.5 1034.5	10.0 9.5	4.93 5.78	7.16 9.27	2.31 (79.3) 2.43 (83.3)			49.27 54.88	71.60 88.07	23.13 23.08
				" "	999.5	1034.5	35.0	5.00	6.74	2.20 (75.4)			174.85	235.90	77.00
				" "	1034.5	1044.3	9.8	3.48	4.39	1.36 (46.8)			34.116	43.020	13.366
				Wt. Av.	1044.3	1062.0	17.7	2.3	lead-zinc				39.93	Pb Zn	

12.09 - 1505

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
326.3 1070.5	333.1 1093.0	QUARTZ - SERICITE - CHLORITE PHYLLITE													
		Partially altered or bleached to light gray with most of the original graphite content flushed out. Foliated but firm. F2 = 72°. Quartz vein 1' thick @ 1071.4'. Sulphides rare although at the upper 1½' of the section low grade sulphide mineralization occurs. 1' of quartz replacement vein at 1071' carry base metal sulphides along tension cracks.	20/22.5		1070.5	1093.0									
1093.0	356.3 1169.0	QUARTZ - SERICITE PHYLLITE													
		Light gray to white, silicified, bleached. F2 = 75°. A few F1 subvertical to F2 noted. Poor recovery at certain sections. Broken or sheared @ 1105.5-1124', 1126.5-1128.0', 1153-1154', 1156-1160', 1162-1167'. Mineralized with good grade in parts.	5.7/5.7		1093.0	1098.7									
		1098.7-1105.5' -- disseminated sulphides in silicified quartz-sericite, 2-4% lead-zinc	6.4	1625		1105.5	6.8	.82	1.56	.41					
		1114.0-1124.0' -- sulphides in fractures of hornfelsic quartz-sericite-graphite. Recovery very poor. 6-8% lead-zinc.	3.3/8.5			1114.0									
			1.5	1626		1124.0	10.0	.62	1.11	.35					
		1151.0-1155.7' -- Sparse sulphides in altered quartz-sericite along foliations. 0-2% lead-zinc	23.2/27.0			1151.0									
		-1162.0' -- narrow bands of massive sulphides in quartz-sericite last rock, 10% lead-zinc	4.5	1627		1155.7	4.7	.23	.25	.06					
		-1165.5' -- narrow bands of sulphides in predominant altered quartz-sericite, 5% lead-zinc.	8	1628		1164.3	8.6	2.82	2.64	.91					
			1.2	1629		1165.5	1.2	.95	.75	.26					
			3.5			1169.0									
1169.0	363.3 1192.0	QUARTZ - SERICITE - CHLORITE PHYLLITE													
		Pale green, alternating laminae of quartz, sericite and minor chlorite. A few replacement quartz bands. F2 = 75°-85°.	23/23		1169	1192									

DIAMOND DRILL RECORD

LOGGED BY D. Basco

PROPERTY

D.D.H. No. 75-A69 PAGE 12 of 13

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

N

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
		Rare patches of pyrrhotite, firm, becomes graphitic in the last 11 feet.													
363.3 1192	364.8 1197	GRAPHITE - QUARTZ - SERICITE													
		Dark gray to black, foliated and fissile. An inch of quartz vein in the middle. F2 = 85°. Graphite = 25% of section.	4/5		1192	1197									
1197	370.3 * 1215	QUARTZ - SERICITE - PHYLLITE WITH MINOR CHLORITE													
		Alternating laminae of quartz and sericite with little chlorite. Firm. Sparse sulphide, mostly pyrrhotite. F2 = 80°.	18/18		1197	1215									
1215	381.3 1251	QUARTZ - SERICITE PHYLLITE													
		Bleached white, much quartz from silicification. Patches and streaks of pyrrhotite. Little pyrite, rare sphalerite and galena. Firm. F2 = 85°. Magnetic for the most part.	36/36		1215	1251									
		At 1241-1242' -- significant galena mineralization in F2 and F1 foliations noted.			1241	1242		Estimate 5.0% lead-zinc							
1251	389.2 1277	QUARTZ - CHLORITE - SERICITE PHYLLITE													
		Gray-green, foliated but firm where unsheared. Partially silicified. Abundant quartz-carbonate veins. F2 = 75-85° with well developed F1 in places. Quartz-chlorite-sericite interlaminated. Mud seams @ 1261.4-1262.0'. Abundant biotite.	25/26		1251	1277									

DIAMOND DRILL RECORD

LOGGED BY D. Basco

PROPERTY

D.D.H. No. 75-A69 PAGE 13 of B

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
389.2	399.3														
1277	1310	BLEACHED QUARTZ - SERICITE PHYLLITE													
		White boudined quartz fragments, more sericite interlaminated with lesser quartz. Well developed F2 with local subvertical F1	43/43		1277	1310									
		Abundant pyrrhotite and lesser pyrite. Minor chalcopyrite and rare sphalerite and galena along foliations. Firm where unsheared.													
		Some fusion to hornfelsic material with pyrrhotite and magnetite 1277.5-1279.0, as well as quartz veins. Chloritic in parts.													
		Core angle ranges from 75-85°.													
	410.26														
1310	1346	QUARTZ - SERICITE - CHLORITE PHYLLITE (Biotite)													
		Green-gray, foliated. Firm. Quartz striped with green chlorite and partially bleached. Pyrrhotite bands at intervals. F2 = 60° @ 1313', 70° @ 1327' and 70° @ 1346'.	36/36		1310	1346									
	1346	END OF HOLE													
		REMARKS: 1. Collar + 392-458' -- losing water.													
		2. Collar + 489' -- lost circulation.													
		3. Cemented hole from 1346' up -- used 12 bags of cement.													

DIAMOND DRILL RECORD

LOGGED BY F. Chow

PROPERTY VANGORDA, GRUM JOINT VENTURE

LINE GRID / HIW / TROPARI

LATITUDE 3 + 96N / 35097.80N (10,700.88m N) BEARING OF HOLE @ 161' 122° 20.5' (Azim True) / 341' 143° 14.5;

DEPARTURE 69 + 85W / 25253.54E (7694.94m E) DIP OF HOLE -90° / @ 161' -86° / 341' -84°

ELEVATION 4212.72' ASL / 4254.72' (1296.69m) DIP TESTS

STARTED April 30, 1975 NS

COMPLETED May 2, 1975 AS

DEPTH Proposed: 360' / Ultimate: 355' (108.2m)

SIZE OF HOLE 0 - 112' BW / 112- 355' BQ

D.D.H. No. 75-A70 PAGE 1 of 5

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	112	OVERBURDEN (Recovery 0.25' granitic pebbles)	0.25/112		0	112									
112	154	QUARTZ - SERICITE PHYLLITE Weathered. Light to buff gray													
		40% (?) quartz-feldspar, 5-10% (?) carbonates. Phyllite hydro-	6.5/22		112	134									
		leached - rough core surface. Light gray with much buff colour	7.4/14			148									
		Rusty weathering to 160'. No sulphides.													
		Rock parts readily along foliation.	4.4/6			154									
		Core Angle: 55° @ 116-127', 0° @ 128-131', 65° @ 133', 55° @ 142', 45° @ 144-155'.													
154.0	164.5	QUARTZ - SERICITE - CHLORITIC PHYLLITE													
		55% quartz, massive, greenish-gray, 10% (?) chlorite.	8/10.5		154.0	164.5									
		Rock much fractured. Negligible pyrite.													
		Core Angle: 65° @ 156-161', 10°-35°-45° @ 162-166'.													
164.5	180.5	QUARTZ - SERICITE - GRAPHITE PHYLLITE Medium gray													
		40-50% quartz, 3-5% graphite, a few spots of pyrite. Thinly	6/7.5		164.5	172.0									
		laminated quartzose-feldspar and sericite-graphite. Highly	4/8			180.0									
		fissile.													
		Core Angle: 70° @ 167', 55° @ 168', 45° @ 170, 40° @ 172', 30° @ 175', 20° @ 178'.													

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-A70 PAGE 2 of 5

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
180.0	201.5	QUARTZ - GRAPHITE PHYLLITE Dark gray - black.													
		35-40% quartz, odd pyrite. Thinly laminated. Highly fissile. F1 locally prominent.	3.5/9		180.0	189.0									
			5/6			195.0									
		Core Angles: 60° @ 181', 40° @ 184'-192', 50° @ 194', 65° @ 200'	3.8/6.5			201.5									
		70° @ 201'.													
201.5	221.0	QUARTZ - SERICITE - GRAPHITE PHYLLITE WITH SULPHIDES													
		60-65% quartz, 4% graphite, variable sulphides, banded. 201.5'-203.3' -- rich lead-zinc bands	1.8	1423	201.5	203.3	1.8	4.58	8.00	1.76	✓		8.244	14.40	3.168
		25% pyrite, 14% lead-zinc	4.2	1424		207.5	4.2	1.65	1.88	.79	✓		6.93	7.896	3.318
		-207.5' -- 25-30% pyrite, alternating heavy pyrite bands, 2% lead-zinc													
		-212.5' -- as above, more lead-zinc - 5% -216.5' -- massive sulphides, 60% pyrite 25% (?) lead-zinc	5.0	1425		212.5	5.0	3.38	5.88	1.24			16.90	29.40	6.20
		-218.5' -- 10% pyrite, 6% lead-zinc. F1 prominent -221.0' -- 3% pyrite, 0.4% lead-zinc	6.0	1426		218.5	6.0	6.59	14.70	3.29			39.54	88.20	19.74
		Rock moderately competent.		Wt. Av	201.5	218.5	17.0	4.21	8.23	1.91	(65.4 g/T n.r.) ✓		71.614	139.896	32.426
				Wt. Av.	207.5	218.5	11.0	5.13	10.69	2.36	(80.9) ✓		56.44	117.60	25.94
		Core Angles: 40° @ 202', 50° @ 203', 45° @ 204', 50° @ 211', 30° @ 214', 70° @ 217', 30° @ 218', 50° @ 219',	4.2	1427		222.7	4.2	1.23	.37	.50			5.166	1.554	2.10
		30° @ 221'.													
221.0	241.2	QUARTZ - SERICITE - CHLORITIC PHYLLITE WITH SULPHIDES. Bleached.													
		40-50% quartzose-feldspar, variable sulphides, mixed bands of sericite and sericite-chloritic phyllite. The latter generally contain no	6.4	1428	222.7	229.1	6.4	1.18	1.18	.41			7.552	7.552	2.624
				Wt. Av.	218.5	229.1	10.6	1.2	0.86	0.45	(15.3) ✓		12.718	9.106	4.724
		lead-zinc and pyrite. Rocks totally bleached and, leached sections show. fuschite. F1 locally moderately developed. Rock	7.9/8.2			237.3		Est. 0.01 lead-zinc							
		weak in non sulphides.	4.7	1429		242.0	4.7	1.68	3.96	.85			7.896	18.612	3.995

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-A70 PAGE 3 of 5

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
		221.0'-223' - quartz lense with pyrite and leached sericite with fuschite. Negligible lead-zinc.													
		-225.8'- quartz, sericite, sulphides; 10% pyrite, 4-5% lead-zinc, F1 folds.													
		-228' - quartz, sericite, chlorite (15%), barren except for 0.2' F1 nose.													
228		-229.1'- quartz, sericite, sulphides; 15% pyrite, 1% lead-zinc, F1 folds.													
		-236' - quartz, sericite, chlorite (4%), barren of sulphides													
		-236.2'- quartz, sericite, sulphides, 1% pyrite, 2% lead-zinc													
		-237.3'- leached sericite with fuschite													
		-241.2'- quartz, sericite, sulphides; 3% pyrite, 5.5% lead-zinc.													
		Core Angles: 55° @ 222', 50° @ 224', 60° @ 229', 70° @ 230', 60° @ 232', 65° @ 240'.													
241.2	249.0	QUARTZ - SERICITE - GRAPHITE PHYLLITE WITH SULPHIDES													
		Similar phyllite as quartz - sericite with sulphides above, but with 2-4% graphite.	4.0	1430	242.0	246.0	4.0	1.95	4.92	.88			7.80	19.68	3.52
		Phyllite more quartzy (50-60%). F1 well developed, 4% pyrite, 6.5% lead-zinc. Rock competent.													
		Core Angle: 75° @ 244'-261'.													
249.0	264.0	QUARTZ - SERICITE PHYLLITE WITH SULPHIDES													
		60-70% quartz-feldspar, 2% pyrite, 5-8% lead-zinc, similar to 237.3'-241.2' except more siliceous. Locally prominent F1 folds.	8.7	1431	246.0	255.0	9.0	2.03	4.80	1.00			18.27	43.20	9.00
				Wt. Av.	237.3	255.0	17.7	1.92	4.60	0.93	(32) ✓		33.966	81.492	16.515

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-A70 PAGE 4 of 5

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
		Both F1 and F2 mineralization. Rock competent.	4.9	1432		260.0	5.0	1.38	2.76	.56			6.90	13.80	2.80
		255.0'-256.5' -- seritic and talcy, rich ankerite and fuschite, leached 10%.	8.0	1433		268.0	8.0	1.88	4.38	.88			15.04	35.04	7.04
264.0	290.0	QUARTZ - SERICITE - GRAPHITE PHYLLITE WITH SULPHIDES													
		60-70% quatrz-feldspar, 2-7% pyrite, 2.5-7.5% lead-zinc. Thin & wide banded quartzo -sulphides with quartz - sericite- graph-	3.5	1434	268.0	271.5	3.5	1.38	3.12	.65			4.83	10.92	2.275
		ite. Mainly F2 mineralization. F1 locally well developed. 277'-280' bands leached sericitic buff colour, with abundant	7.6	1435	271.5	279.2	7.7	1.08	2.94	.47			8.316	22.638	3.619
		chlorite and ankerite. Rock competent to 276', weak thereafter.	2.7	1436		282.0	2.8	.98	2.70	.44			2.744	7.56	1.232
		Core Angles: 70° @ 264', 60° @ 268', 70° @ 271', 60° @ 273',	5.8	1437		288.0	6.0	1.75	3.72	.76			10.50	22.32	4.56
		80° @ 279'-285', 65° @ 287', 70° @ 288'-293'. 75° @ 275'.	1.7	1438		290.0	2.0	.93	3.18	.44			1.86	6.36	0.88
				WT. AV.	255.0	290.0	35.0	1.3	3.39	0.58	(19.7)		45.36	118.638	20.131
290.0	293.0	QUARTZ - SERICITE PHYLLITE Bleached buff.	2.8/3		290.0	293.0									
293.0	302.8	SHEAR ZONE, FAULT ZONE IN QUARTZ- SERICITE ± GRAPHITE PHYLLITE													
		293'-300' -- rock highly sheared, parts brecciated (loosely cemented)	4.5/6		293.0	299.0									
		300'-302.8'- fault gouge and fragments.	1.1/2			301.0									
		Core Angles: 70° @ 295', 35° @ 296.5', 0° @ 297'-298'.	1.5/1.8			302.8									

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-A70 PAGE 5 of 5

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
302.8	336.0	QUARTZ- SERICITE PHYLLITE Bleached and,													
		QUARTZ - SERICITE PHYLLITE Altered													
		40-50% Altering sections of bleached buff phyllite and light and medium gray altered phyllite. Generally thinly laminated. Negligible sulphides. A few narrow shears.	22/23.2		302.8	336.0									
		Core Angles: 60° to 325', 75° @ 327', 70° @ 332'.													
336.0	355.0	SHEAR ZONE IN QUARTZ - SERICITE PHYLLITE													
		Rocks intensely sheared, often contain gouge and breccia. All loosely in place.	1.5/1.5		336.0	337.5									
			15.4/17.5			355.0									
		Core Angle: 70° .													
	355.0	END OF HOLE													
		REMARKS: Hole cemented from 355' up.													
		Hole drilled to proposed ramp only.													

DIAMOND DRILL RECORD

LOGGED BY F. Chow

PROPERTY VANGORDA, GRUM JOINT VENTURE

D.D.H. No. 75-A71 PAGE 1 of 9

LINE GRID / HIW

LATITUDE 3 + 96N / 35379.74N (10,783.74m N) BEARING OF HOLE BY TROPARI @ 282' - 101° 40.5' Azim (True) @ 552' - 101° 50.5' STARTED May 3, 1975 D.S.

DEPARTURE 73 + 95W / 24957.33E (7606.99m E) DIP OF HOLE - 90° COMPLETED May 5, 1975 A.S.

ELEVATION 4248.10' ASL / 4290.10' (1307.62m) DIP TESTS BY TROPARI @ 282' - 77° @ 552' - 81° DEPTH Proposed: 470' Ultimate: 582' (177.39m)

HOLE SIZE 0 - 54' -- BW 54 - 582' -- 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	54 ft.	OVERBURDEN (Triconed to Bedrock)	Nil		0	54									
54	172.5	QUARTZ - SERICITE ± CHLORITE PHYLLITE Greenish gray & light gray													
		40-50% quartz-feldspar, 0-3% chlorite (locally rich) light to	2.5/4		54	58									
		medium gray, greenish tinge where chlorite present. Banded and	20/20			78									
		striped banded (thin) F1 poorly to moderately developed locally	16/20			98									
			50/50			148									
		Rock not competent, parts readily along foliation planes.	6.2/10			158									
		Local shears at 57' parallel foliation, 63-64' parallel folia-	2/10			168									
		tion, 87', 96', 100', 115', and 127'. Multiple shearing @ 148-				173									
		173', most intense appear to be at 167-173'.	2.3/5												
		Core Angles: 65-70° to 88', 80° @ 93', 85-90° @ 96-99', 75° @ 101.7, 65° @ 103, 75° @ 104-133', 70° @ 134-149', 75-80° @ 151-188'.													
172.5	198.0	QUARTZ - SERICITE - CHLORITE PHYLLITE													
		40% quartz-feldspar, 40-45% sericite, 15-20% chlorite. Light	13.5/15		173	188									
		greenish-gray colour. Thinly foliated with narrow quartzose bands. Parts readily along foliation.	7.2/10			198									
		Many tight shears, wider ones with gouge occuring at 192'-198'. Rock not competent.													
		Core Angles: 75-70° @ 172', 60° @ 178', 70° @ 180', 60-65° @ 187-198'.													

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-A71 PAGE 2 of 9

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	245.5	QUARTZ - SERICITE PHYLLITE Medium gray.													
		40-50% quartz-feldspar. Medium gray, white quartzose banding and locally striped banding. F1 moderately developed locally.	5.3/6		198	204									
			3.3/6			210									
		Highly fissile. Intensely sheared at 206-213' and 222-226'. Many other small slips.	0.9/3			213									
			3.5/9			222									
		Core Angles: 60° @ 198', 50° @ 199-206', 60° @ 213', 45° @ 215'	1.3/4			226									
			1.3/2			228									
		35° @ 225.5', 75° @ 226', 35° @ 233' (shearing)	3.5/7		228	235									
		70° @ 235-244', 50° @ 245'.	7.7/10.5			245.5									
245.5	261.5	QUARTZ - SERICITE PHYLLITE Medium gray.													
		45% quartz-feldspar, thinly laminated, also stripe banded. A few narrow shears. Rock parts readily along foliation.	5.7/7		245.5	252.5									
		Core Angles: 50° to 248', 75° @ 250', 60° @ 251', 75-80° @ 255-270'.	9/9			261.5									
261.5	290.0	QUARTZ - SERICITE - CHLORITE PHYLLITE Greenish-gray.													
		50% quartz-feldspar, 15-20% chlorite. Similar to 172.5-198' phyllites. Rock not competent, parts readily along foliation.	14.4/16.5		261.5	278.0									
		Also moderate shearing at 268-271' and 287.5-290'.	3.6/6			284.0									
			0.5/2.5			286.5									
		Core Angles: 65-70° @ 271-277', 60° @ 278-279', 80° @ 280', 60° @ 284', 70° @ 287'.	2.6/3.5			290.0									

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-A71 PAGE 3 of 9

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
290.0	317.0	QUARTZ - SERICITE PHYLLITE Medium gray													
		40% quartzose-feldspar. Thinly laminated, similar to 245.5'-261.5'. Moderately fissile, parts readily, not competent rock.	25.5/27		290.0	317.0									
		Core Angles: 75° to 299', 70° to 305', 75-80° to 315', 70° @ 316'. Tight 20° slip at 316.5'.													
317.0	322.4	QUARTZ - SERICITE PHYLLITE Altered. Slightly bleached.													
		40% quartzose-feldspar. Thinly laminated. Light buff-gray. Sheared at 321.9-322.4'.	4.7/5.4		317.0	322.4									
		Core Angle: 75-80-85°.													
322.4	329.7	QUARTZ - SERICITE PHYLLITE Medium gray.													
		45% quartzose-feldspar. Thinly laminated. Similar to 290-317'.	7.3/7.3		322.4	329.7									
		Core Angle: 75-80°.													
329.7	346.0	QUARTZ - SERICITE ± CHLORITE PHYLLITE Altered. 50% bleached.													
		50-55% quartzose-feldspar. Thinly foliated sericite with minor local chlorite banded with narrow (1/16") white quartzose-feldspar bands. Minor local F1 developed. Much carbonates. Moderately competent rock, *yet* parts readily along foliation.	16.3/16.3		329.7	346.0									
		Core Angles: 75° @ 333', 70° @ 337', 85° @ 341', 65° @ 342', 75° @ 345'.													

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
346.0	361.0	QUARTZ - SERICITE - PHYLLITE Medium gray													
		Similar to 290-317'. Fault and shear zone @ 355.5-359'. Much carbonates.	10/10		346.0	356.0									
		Core Angle: 70-75°.	4.8/5			361.0									
361.0	373.5	QUARTZ - SERICITE PHYLLITE Bleached buff and altered gray-buff													
		50% quartzose-feldspar. 361-367' bleached buff; 367-373.5' — alternate bands of buff and gray-buff alteration. Rocks fissile	2.9/3		361.0	364.0									
		and shearing at a few places. Much carbonates.	8.7/9.5			373.5									
		Core Angle: 70-65°.													
373.5	382.0	QUARTZ - SERICITE - GRAPHITE PHYLLITE													
		45% quartzose-feldspar, 35-45% sericite, 5-15% graphite -- increasing towards 382'. Many fractures -- quartz and ankerite	7.5/8.5		373.5	382.0									
		filled. A few blebs of pyrite.													
		Core Angles: 75° @ 375', 60° @ 378', 80° @ 381', 70° @ 388'..													
382.0	393.0	QUARTZ - GRAPHITE PHYLLITE													
		35-40% quartzose-feldspar, negligible pyrite. Black, thinly foliated graphite. Fissile, also sheared and fractured. Very	4.4/8		382.0	390.0									
		weak rocks in Hanging wall of sulphide zone immediately	1.7/3			393.0									
		below. Contact believed to be sharp.													

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-A71 PAGE 5 of 9

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 Angles: 35° @ 391', 60° @ 392'.													
393.0	408.0	MASSIVE SULPHIDES and QUARTZ - GRAPHITE - SULPHIDES													
		393.0-399.5'-- 35-40% pyrite, 32% lead-zinc, minor graphite remnants.	6.3	1439	393.0	399.5	6.5	8.77	18.14	3.82			57.005	119.665	24.83
		-402.0'-- quartz-graphite-sulphides, 20% pyrite, 6-8% lead zinc	2.0	1440		402.0	2.5	2.33	4.38	1.03			5.825	10.95	2.575
		-408.0'-- granular massive sulphides, slightly porous, 70-75% pyrite, 8-14% lead-zinc.	3.3	1441		408.0	6.0	3.42	7.34	1.44			20.52	44.04	8.64
					393.0	408.0	15.0	5.56 17.20	11.64	2.40	(82.4 g/t) Weighted Average		83.350	174.655	36.045
		Core Angles: 40° @ 393.5', 50° @ 395', 75° @ 400', 80° @ 403'.													
408.0	430.8	QUARTZ - SERICITE PHYLLITE WITH SULPHIDES													
		65-70% quartzose-feldspar, 10-15% pyrite, 2-7% lead-zinc (av.5%) Quartzy and hard. Moderately competent rock.	7.2	1442	408.0	415.5	7.5	1.55	2.22	.65			11.625	16.65	4.875
		Core Angles: 40° @ 409-418', 50° @ 418', 75° @ 420-423', 60° @ 426', 40° @ 427', 50° @ 428-430'.	3.0	1443		419.7	4.2	1.43	2.76	.59			6.006	11.592	2.478
			2.6	1444		424.8	5.1	1.10	1.96	.47			5.61	9.996	2.397
				1445		430.8	6.0	1.48	2.40	.65			8.88	14.40	3.90
				Wt. Av.	408.0	430.8	22.8	1.41	2.31	0.6	(20.5)		32.121	52.638	13.65

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-A71 PAGE 6 of 9

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
430.8	436.0	QUARTZ- SERICITE - CHLORITE PHYLLITE Bleached 45% quartzose-feldspar, 10% chlorite, banded, 10% leached, slightly sheared, not competent.													
		Core Angles: 50° @ 431', 65° @ 435', Upper contact @ 75°, lower @ 60° to core, and 50° to foliation (slip contact ?)	5.2/ 5.2		430.8	436.0									
436.0	462.8	QUARTZ - SERICITE - GRAPHITE PHYLLITE WITH SULPHIDES, also QUARTZ - SERICITE, bleached													
		60-70% quartzose-feldspar, 3-10% graphite, 2-6% (av. 3%) pyrite, 2-6% lead-zinc. F1 and F1 noses prominent. Both F1 and F2 mineralization.	4.6	1446	436.0	440.7	4.7	3.08	4.86	1.03					
			7.4	1447		448.5	7.8	.95	2.00	.44					
		Rock quartzy and hard but parts readily along sericitic and/or graphitic foliation planes.	4.0	1448		452.5	4.0	.47	.70	.29					
		Sericitic sections with little or no graphite occur at 436.0-436.8', 440-441.8', 442.8-444', 448.5-449.4' (quartz lense and quartz-sericite) 451.3-452.5', 458.2-460.6'. Generally, these sections contain only minor pyrite and with negligible lead-zinc	5.7	1449		458.2	5.7	1.40	3.18	.85					
			2.4/ 2.4			460.6		Estimate 0.00 lead-zinc							
		Core Angles: 65° @ 437', 55° @ 440-444', 75° @ 445', 60° @ 450-457', 70° @ 458', 45° @ 459', 50° @ 461, 75-40° @ 462'.	2.2	1450		462.8	2.2	1.75	1.98	.88					

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-A71 PAGE 7 of 9

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
462.8	487.0	QUARTZ - SERICITE - CHLORITE PHYLLITE (Bleached) INTER-FINGERING WITH QUARTZ - SERICITE - GRAPHITE WITH SULPHIDES													
		Quartz-sericite-chlorite phyllite occur at 462.8-468.3', 473.4-479.9' and at 483-486'. Sericite-chlorite phyllite contains	5.5/5.5		462.8	468.3		Estimate 0.06% lead-zinc							
		negligible sulphides and much ankerite.	5.1	1451	468.3	473.4	5.1	.30	.96	.15					
		The sericite-graphite phyllite with sulphides are identical to the graphite phyllite in section above; show 8-12% pyrite, 2% lead-zinc.	6.5/6.5			479.9		Estimate 0.01% lead-zinc							
		Core Angles: 75-65° @ 469-486' (undulating)	3.7	1452		483.8	3.7	.89	1.32	.56					
			2.3/2.4			486.2									
			0.8/0.8			487.0		Estimate 0.7% lead-zinc							
487.0	517.5	SHEAR AND FAULT ZONE IN QUARTZ - SERICITE PHYLLITE													
		45% quartzose-feldspar, light to medium gray, thinly foliated sericitic phyllite, parts bleached.	3.1/5		487.0	492.0									
		487 -487.9' -- loosely cemented sulphide-phyllite breccia	17.2/21.5			513.5									
		488.4-493'(?)-- fault gouge, loosely cemented breccia (phyllite)	4/4			517.5									
		(?) 499.5-502 -- shear gouge and fragments													
		503 -513.5'(?) faulted and sheared													
		Core Angles: 65° @ 488', 60° @ 493', 55° @ 496-499', 55° @ 503'													
		30° @ 506', 85° @ 513.5', 75° @ 515, 65° @ 516'.													

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.

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
517.5	521.8	QUARTZ - SERICITE PHYLLITE Bleached buff.													
		50% quartzose-feldspar, totally bleached buff with quartz lenses and abundant fuschite and carbonates. Moderately leached. Negligible pyrite.	4.0/ 4.3		517.5	521.8									
		Core Angle: 70°.													
521.8	582.0	QUARTZ - SERICITE - GRAPHITE PHYLLITE WITH SULPHIDES Bleached grayish-white													
		50-60% quartz, 1-3% graphite, 3-7% pyrite, 1.5-7% lead-zinc.													
		Zone totally bleached, core shows rough surface, also numerous leached holes.	6.7	1453	521.8	528.7	6.9	2.33	2.00	.94					
		Rock quartzy but parts readily along foliation. Shearing at 502' and 508', both more or less parallel foliation.	7.3	1454		536.2	7.5	1.85	1.04	.71					
		521.8-528.7' -- 3% pyrite, 7% lead-zinc -544.5' -- 3.5-15% pyrite, 3.5-1.5 % lead-zinc	7.3	1455		544.5	8.3	1.88	1.02	.62					
		-566.5' -- 3-7% pyrite, 4.5-5% lead-zinc -575' -- 4% pyrite, 2.5% lead-zinc	9.1	1456		553.8	9.3	3.45	2.46	1.06			32.085	22.878	9.858
		-580' -- 5% pyrite, 0.3% lead-zinc -582' -- 0.2% pyrite, no lead-zinc	5.4	1457		559.7	5.9	1.35	1.02	.44			7.965	6.018	2.596
		Core Angles: 60 @ 523', 60-65° to 546', 80° @ 547', 40° shear at 552', 75° @ 553-557', 65° @ 558-561, 60° @ 564-571', 65-70° @ 576', 75-80° @ 580-582'.	4.2	1458		566.5	6.8	3.45	1.74	1.03			23.46	11.832	7.004
			5.6	1459		575.0	8.5	.85	1.09	.41					
			4.3/5			580.0		Estimate 0.3% lead-zinc							

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
			2/2			582.0		Estimate Nil lead-zinc							
	582.0	END OF HOLE		WT. AV.	528.7	544.5	15.8	2.9 lead-zinc			Weighted Average				
				WT. AV.	544.5	566.5	22.0	2.89	1.85	0.88	(30.3)		63.51	40.723	19.458
		REMARKS 1. Lost water return at 398'.													
		2. Cemented hole from 582' up, used 3 bags of cement.													

DIAMOND DRILL RECORD

LOGGED BY D. Basco

PROPERTY VANGORDA, GRUM JOINT VENTURE

D.D.H. No. 75-A72 PAGE 1 of 5

LINE GRID / HIW

LATITUDE 4 + 10N / 35660.11N (10,869.20m N) BEARING OF HOLE BY TROPARI @ 302' -- 96° 50.5' Azim (True) @ 582' --105° 50.5' STARTED May 6, 1975 A.S.

DEPARTURE 77 + 82W / 24685.59E (7524.17m E) DIP OF HOLE - 90° COMPLETED May 9, 1975 D.S.

ELEVATION 4272.16' / 4314.16' (1314.96m) DIP TESTS BY TROPARI @ 302' -- -82° @ 582' -- -80° 30' DEPTH Proposed: 700' Ultimate: 640' (195.07m)

HOLE SIZE 0 - 32'--BW, 32 -640'--BQ

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	30.0 ft.	OVERBURDEN													
30.0	125.0	QUARTZ - SERICITE - CHLORITE PHYLLITE													
		Gray-green, interlaminated quartz, sericite and chlorite; fine grained biotite, foliated and fissile. Badly weathered or sheared: 30-38', 47-49' and 50-51'. Broken or sheared: 68-88', 90-91', 113-114'. Mud seams: 53', 60', 122'. Core angle ranges from 70-80°. Striped with quartz carbonate.	6.5/8		30	38									
			8.5/10			48									
			4.5/5			53									
			15/15			68									
			6/19			87									
			36/38			125									
125.0	256.5	QUARTZ - SERICITE - CHLORITE PHYLLITE													
		Same as above, except that the rock herein referred to is relatively fresh and firmer. Mud seam @ 176'. Sheared @ 156.5' and 167'. Silicified 180-181', 206-209'. Abundant quartz-carbonate veins and veinlets along foliations and tension cracks. Well developed F2, occasional F1 subvertical to former. Relatively competent. Core Angles: 75-80°.	31.5/31.5		125.0	256.5									
256.5	279.0	BLEACHED QUARTZ - SERICITE PHYLLITE													
		White, interlaminated quartz, sericite and lesser chlorite. Silicified 267-269'. Incompetent. Sheared and faulted in parts 262-266', 271-273' and 277-279'. Core Angle: 75-80°.	3.2/3.5		256.5	260.0									
			4/6			266.0									
			9/13			279.0									

DIAMOND DRILL RECORD

LOGGED BY D. Basco

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

D.D.H. No. 75-A72 PAGE 2 of 5

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
279.0	357.0	Similar to 125.0-256.5'. Firm where unsheared. Mud seams @ 275', 297'. Sheared 10° to core @ 308-309'. Core Angle: 70-80°.	78/78		279	357									
357.0	465.0	CHLORITE - SERICITE - QUARTZ PHYLLITE													
		Green-gray, approximately 40% chlorite, 30% sericite and 30% quartz. Foliated, striped with quartz-carbonate along foliation and tension cracks. Local quartz conformable veins, fine-grained brown biotite discernible under the lens. Firm where unsheared. Mud seams @ 369', 378', 396.5'. Broken or sheared and gougy: 369-377', 434.5'. Core Angle: 75-85°.	106/108		357.0	465.0									
465.0	479.0	CHLORITE - SERICITE - QUARTZ PHYLLITE													
		Similar to above, except that the rock is more broken. Sheared at 479'. Core Angle: 65-75°.	12.5/14		465.0	479.0									
479.0	483.0	BLEACHED QUARTZ - SERICITE PHYLLITE													
		White, hydrothermally altered and sheared.	2.5/4.0		479.0	483.0									

DIAMOND DRILL RECORD

LOGGED BY D. Basco

PROPERTY

LATITUDE BEARING OF HOLE STARTED

DEPARTURE DIP OF HOLE COMPLETED

ELEVATION DIP TESTS DEPTH Proposed: Ultimate:

D.D.H. No. 75-A72 PAGE 3 of 5

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
483.0	506.2	QUARTZ - SERICITE - CHLORITE - GRAPHITE PHYLLITE													
		Dark gray to black, interlaminated quartz, sericite, chlorite and graphite (5-15%) Abundant quartz veins, bleached to white quartz-sericite 498-499'. Sheared with gouge 483-484', 495'. Also partially bleached to quartz, sericite-chlorite phyllite 495.5-499.0'. Note: sphalerite-galena heavy mineralization (14% lead-zinc) @ 504.4-505.0' with quartz. Fissile.	22.6/23.2		483.0	506.2									
			10.2		504.8	505.0		Estimate 14% lead-zinc							
						506.2		Estimate Nil lead-zinc							
					506.2										
506.2	531.5	MINERALIZED QUARTZ - SERICITE - GRAPHITIC PHYLLITE	6.8	1630	506.2	513.0	6.8	9.53	18.11	3.68			64.80	123.15	25.02
		506.2-513.0' -- massive bands of fine pyritic sulphide ore in a matrix of quartz, sericite and minor graphite. Estimated 40% pyrite and 22% lead-zinc.	3.3	1631		516.3	3.3	5.64	12.45	2.32			18.61	41.09	9.66
			7.6	1632		523.9	7.6	1.83	3.12	.82			13.908	23.712	6.232
		513.0-516.3' -- narrow bands of pyritic sulphide ore in same matrix above. 20% pyrite, 11% lead-zinc.	2.4	1633		526.3	2.4	.79	.95	.32			1.896	2.28	0.768
		516.3-531.5' -- narrower bands of pyritic sulphides in same rock carrying lesser sphalerite and galena, include:	5.2	1634		531.5	5.2	2.15	4.20	.88			11.18	21.84	4.576
		516.3-523.9' -- 20% pyrite, 4.5% lead-zinc -526.3' -- 20% pyrite, 1.5% lead-zinc -531.5' -- 12% pyrite, 6.5% lead-zinc													
				Wt. Av.	506.2	516.3	10.1	8.26	16.26	3.24	(		83.41	164.24	32.68
				Wt. Av.	516.3	531.5	15.2	1.78	3.15	0.76	(26.1)		26.984	47.832	11.576
531.5	573.2	QUARTZ - SERICITE PHYLLITE	1.7		531.5	533.2		Barren quartz, sericite, phyllite							
		White, bleached, alternating laminae of quartz, sericite, weakly mineralized by sulphides in gray quartz along foliations.	1.1	1635		534.3	1.1	2.50	.16	.88					
		Dissemination uneven with richer concentrations in parts. Sheared @ 542-543', 550-552', 555-557', 562-563'.	12.1			536.4		Estimated 0.2% lead-zinc.							

DIAMOND DRILL RECORD

LOGGED BY D. Basco

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: 75-85°.	5.8	1636	536.4	542.2	5.8	.75	.76	.26			4.35	4.408	1.508
			6.8	1637		552.0	9.8	1.04	1.46	.44			10.192	14.308	4.312
			5.0			557.0		Estimated 1.0% lead-zinc							
			8.5	1638	(563.2 -	566.0	9.0 2.8	1.18	1.96	.44			3.304	5.488	1.232
			7.2	1639		573.2	7.2	1.80	3.00	.74			12.96	21.60	5.326
				WT. AV.	536.4	552.0	15.6	0.93	1.2	0.37	(12.8)		14.542	18.716	5.820
				WT. AV.	563.2	573.2	10.0	1.63	2.71	0.66	(22.5)		16.264	27.088	6.558
573.2	579.0	BLEACHED WHITE SERICITE - QUARTZ PHYLLITE													
		Interlaminated, hydrothermally altered sericite and quartz. Rare specks of sphalerite and galena noted among sparse pyrite	5.6/ 5.8		573.2	579.0									
		dissemination along certain foliations 576.5-578.0'. Mud seams at 573.5'.													
		Core Angle: 85°.													
579.0	614.0	QUARTZ - SERICITE - GRAPHITIC PHYLLITE	7.0/ 7.9	1640	579.0	582.9	7.9	1.63	2.88	.59					
		Medium gray, alternating laminae of quartz, sericite and minor (2-5%) graphite, sparsely mineralized with disseminated pyrite	8.6	1641		591.5	8.6	.47	.77	.21			4.04	6.62	1.81
		sphalerite, galena along F2 and F1 foliations and tension cracks. Certain sections are somewhat enriched. Core broken @	2.5	1642		594.0	2.5	.63	1.44	.21			1.58	3.6	.53
		594-595'. Rock firm. Core Angle: 75-80°.	6.7 /4.0	1643		600.7 604.7	6.7	2.00	3.06	1.03					
		Bleached quartz-sericite in parts: 601-604', 608-609'.	3.5	1644	604.7	609.0	4.3	1.35	2.40	.62					
			3.0	1645		612.0	3.0	4.73	4.78	2.41					
614.0	624.0	BLEACHED QUARTZ - SERICITE PHYLLITE			582.9	597.0	11.1	.51	.92	.21	Weighted Average		5.62	10.22	2.34
		Originally graphitic. Firm. Core Angle: 60°. Cut high grade zinc and lead mineralization associated with pyrrhotite in	10/10		614	624									

DIAMOND DRILL RECORD

LOGGED BY D. Basco

PROPERTY

D.D.H. No. 75-A72 PAGE 5 of 5

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
		highly disturbed F1 and F2 foliation. Approximately 25% pyrite-pyrrhotite, 15% lead-zinc between 621.7-623.0'.													
624.0	640.0	GRAPHITIC QUARTZ - SERICITE - CHLORITIC PHYLLITE													
		Dark gray to black, interlaminated quartz and sericite with minor chlorite and lesser graphite. Silicified in parts. Firm.	8.6/9		624.0	633.0									
		Rich bands and dissem. bands of sphalerite and galena between 638.5' and 640'. 8% pyrite and 8% lead-zinc.	4.3/5.5			638.5									
		Core Angle: 75-80°.	1.5/1.5			640.0		Estimate 8% lead-zinc							
	640.0	END OF HOLE													
		Note: Another sulphide zone appears to start from 638.5'.													
		REMARKS: 1. Cemented hole from 640' up - used 4 bags of cement.													

Plotted: On 674.2' → Section 76 W
Vertical y. Po Jan. 31, 1977

DIAMOND DRILL RECORD

LOGGED BY F. Chow

PROPERTY VANGORDA, GRUM JOINT VENTURE

D.D.H. No. 75-A73 PAGE 1 of 16

	LINE GRID	HIW	BY TROPARI
LATITUDE	9 + 25N	35895.88N (10,944.06mN)	BEARING OF HOLE
DEPARTURE	75 + 88W	25183.75E (7676.01mE)	DIP OF HOLE
ELEVATION	4265.22'	4307.22' (1312.84m)	DIP TESTS

BY TROPARI @ 212' - 101° 21'; @ 402' - 90° 51'; @ 602' - 94° 51'; @ 802' - 105° 51'; @1002' - 99° 15' -90°

DIP TESTS @ 212' - 89°; @ 402' - 90°; @ 602' - 73°; @ 802' - 71°; @1002' - 99° 15'; 0 - 111' -- BW; HOLE SIZE 111 -1195 -- BQ

STARTED May 7, 1975 A.S.

COMPLETED May 15, 1975 A.S.

DEPTH Proposed: 1000-1210' Ultimate: 1195' (364.24m)

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	110	OVERBURDEN	0.2		0	110									
110	117	QUARTZ - SERICITE PHYLLITE Medium gray.													
		55% quartzose-feldspar. Thinly laminated. Well developed large F1 folds. Minor rusty weathering along fractures. Sheared @	3.9/7		110	117									
		112-113' and @ 116.5-117'.													
		Core Angle: 60° @ 111-117'.													
117	140.0	QUARTZ - GRAPHITE - SERICITE PHYLLITE WITH SULPHIDES													
		60-70% quartz-feldspar. 50/50 (?) sericite-graphite, 4-6% pyrite 1.5-6% lead-zinc. Banded quartz-sulphides with quartzose-serici	1.5	1552	117.0	120.3	3.3	0.54	1.04	0.26					
		te-graphite. Very rusty weathering to 121', minor weathering along fractures	3.2	1553		126.0	5.7	1.43	2.73	0.71			8.15	15.56	4.05
		to 140' depth. Highly fractured @ 138 (?)-140'.	2.0	1554		129.0	3.0	1.6	3.42	0.94			4.8	10.26	2.82
		Core Angles: 70° @ 119', 50° @ 120', 60° @ 125', 40° @ 128', 55° @ 131-139'.	2.3	1555		135.0	6.0	1.83	4.32	1.03			10.98	25.92	6.18
			2.6	1556		140.0	5.0	1.38	1.3	0.8					
				~~Wt. Av.~~ Wt. Av.	~~120.3~~ 120.3	~~129.0~~ 135.0	~~8.7~~ 14.7	~~1.49~~ 1.63	~~2.97~~ 3.52	.79 0.89	(30.4 g/mT.)		~~12.95~~ 23.931	~~28.82~~ 51.74	~~6.87~~ 13.047
140.0	145.5	QUARTZ - SERICITE PHYLLITE Altered. Light gray and buff.													
		35% quartzose-feldspar. Thinly laminated, soft, fissile, much shearing.	4/5.5		140.0	145.5									
		Core Angle: 70 - 75°.													

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
145.5	160.5	SHEAR AND FAULT ZONE IN BLEACHED BUFF QUARTZ - SERICITE PHYLLITE													
		Zone of highly sheared phyllites with fault gouge and intensely altered but not sheared segments. Much fuschite present but no sulphides noted except for two 0.8-1' segments of high grade massive lead-zinc. 40-20% lead-zinc with 10-30% pyrite between 151 (?)-154 (?) Lower segment recemented breccia.	1.1/5.5		145.5	151.0									
			2.6	1557		154.0	3.0								
			0.9/2			156.0		3.6	9.54	1.94					
		Core Angles: 35° @ 151.5', 75° @ 152', 70° @ 155' and 30° @ 156.5'.	3.1/4.5			160.5									
160.5	167.5	QUARTZ - SERICITE PHYLLITE Light to medium gray.													
		40% quartz-feldspar, thinly foliated. Sheared and fractured, local quartz-feldspar breccia.	7/7		160.5	167.5									
		Core Angle: 70-60°.													
167.5	191.0	QUARTZ - SERICITE - GRAPHITE PHYLLITE Dark gray with MINOR SULPHIDES													
		45-60% quartz, 5-20% graphite. Local sulphide mineralization 186-190.2' -- 4% pyrite, 0-3% lead-zinc	2.2/5.5		167.5	173.0									
		-191.0' -- 10% pyrite, spots of lead-zinc, 3% magnetite. Rocks undergone much stress, likely caused by faulting above.	6.7/8.5			181.5									
		Fl prominent.	9.5/9.5			191.0									
		Core Angles: 45° @ 168', 70° @ 174', 40° @ 173-178', 60-30° @ 180', 20° @ 186', 40° @ 188', 50° @ 190'.													

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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
191.0	200.4	QUARTZ - CHLORITE - SERICITE PHYLLITE													
		20-40% quartz-feldspar, 40-50% chlorite, no sulphides except @ 197.3-197.9'. Where a "pocket" of rich sulphides (25% pyrite,	9.4/ 9.4		191.0	200.4									
		3% lead-zinc, sparse pyrrhotite appears to be injected with quartz porphry.)													
		Rich chlorite bands occur as irregular bands and irregular widths Rock massive but soft.													
		Core Angles: 55°@ 191-194', 70° @ 195', 75° @ 197, 50° @ 200'.													
200.4	209.3	QUARTZ - SULPHIDES WITH SERICITE - GRAPHITE													
		70-75% quartz-feldspar, 1-10% pyrite (av. 3%), 7-8% lead-zinc, 2% magnetite @ 200.4-202'. Bleached buff sericite except slightly	8.3	1558	200.4	209.3	8.9	2.48	4.56	1.09					
		(1-3%) graphitic section @ 202.5-206.2'. Banded. F1 locally prominent in graphite section. Numerous tension gashes in non-													
		graphitic section, latter also more quartzy.													
209.3	212.0	QUARTZ - SERICITE - CHLORITE PHYLLITE													
		35-40% quartz-feldspar, 20% chlorite, no sulphides. Thinly banded, soft, moderate shearing @ 209.7'. Locally carbonate	2.2/ 2.7		209.3	212.0									
		rich.													
		Core Angles: 60-65° @ 201-212'.													
212.0	246.8	QUARTZ - GRAPHITE - SERICITE PHYLLITE WITH SULPHIDES													
		60% quartz-feldspar, 10% sericite, 4-10% pyrite, 6-8% lead-zinc except 3% @ 241.4-246.8'. Quartzy and hard though parts readily	5.4	1559	212.0	217.4	5.4	1.95	3.84	0.88			10.53	20.736	4.752
		along F2 foliation. F1 prominent. F1 and F2 mineralization.	7.1	1560		224.5	7.1	3.08	5.04	1.32			21.868	35.784	9.372

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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
		Sulphides usually disseminated in quartzose F1 and F2 bands,	4.6	1561	224.5	229.1	4.6	2.38	3.72	1.12			10.95	17.11	5.15
		though F2 mineralization often show massive sulphide bands. A few tight slips with minor off-sets. Minor shearing from 232-	7.7	1562		236.8	7.7	2.29	4.86	1.12			17.63	37.42	8.62
		238'. 241.4-246.8' heavily sheared and contorted. Rock moderate	4.8	1563		241.8	5.0	2.50	6.01	1.18			12.50	30.05	5.90
		ly firm except @ 241.4-242.7'.	5.2	1564		247.0	5.2	1.00	1.92	0.53					
		Core Angles: 55° @ 212', 50° @ 214-218', 55° @ 219', 70° @ 222', 75° @ 223', 60° @ 226-232', 50-55° @ 233-236', 45° @ 237', 75° @ 238.5', 55° @ 240', 45° @ 243', 50° @ 247'.		WT. AV.	212.0	241.8	29.8	2.47	4.73	1.13	(38.9%/ft.)		73.473	141.102	33.796
246.8	253.0	QUARTZ - CHLORITE - SERICITE PHYLLITE													
		Mainly chloritic phyllite, 25-30% chlorite, soft. Two 0.8' bands	5.7	1565	247.0	253.0	6.0	0.35	0.42	0.09					
		sericitic and siliceous phyllite which contain 15% pyrite with 1% lead-zinc. Chloritic phyllite - no sulphides.													
		Upper contact parallel foliation with rich fuschite in first 0.5'.													
		Lower contact @ 45°, sheared and talcy.													
		Core Angle: 40° @ 248', 40-45° to 252'.													
253.0	261.3	MASSIVE SULPHIDES													
		Massive fine-grained sulphides, mainly rich in lead-zinc. One	8.7	1566	253.0	262.0	9.0	8.86	14.93	3.74			79.74	134.37	33.66
		0.2' and one 0.7' section of bleached talcy quartz-sericite band with minor lead-zinc. Zone about 5% leached (bands), minor porous sulphides. 55% pyrite, 25-30% lead-zinc.													
		Core Angles: 60° @ 254', 75° @ 257', 40° @ 259', 45° @ 262'.													

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261.3	292.5	QUARTZ - SERICITE PHYLLITE WITH SULPHIDES (Siliceous)	5.0	1567	262.0	267.0	5.0	4.2	5.28	1.71			21.00	26.40	8.55
		Bleached buff. 70-80% quartz-feldspar, 1-5% sericite, 7% pyrite 7-8% lead-zinc. Sulphides occur as thin bands mainly wispy-	10	1568	267.0	277.0	10	3.45	7.32	1.47			34.50	73.20	14.70
		looking because of F1 folds. F1 and F2 mineralization. F1 prominent, large elongated "S" folds occupying entire core or extending beyond core size. F2 often contorted.	6.4	1569		283.4	6.4	4.13	7.30	1.62			26.432	46.72	10.37
		289.2-291.8' -- barren, bleached buff highly sericitic phyllite	5.6	1570		289.2	5.8	1.95	5.76	0.74					
		Core Angles: 55° @ 252.5', 75° @ 266', 70° @ 267', 60° @ 270-280', F1 parallel core @ 281-284', 60° @ 286', 40° @ 289', 70° @ 292'.		Wt. Av.	262.0	283.4	21.4	3.83	6.84	1.57	(53.9)		81.93	146.32	33.62
		Rock is moderately competent.		Wt. Av.	253.0	289.2	36.2	4.78	8.68	1.90	(67.8)		172.982	314.098	71.57
				Wt. Av.	253.0	277.0	24.0	5.64	9.75	2.37	(81.3)		135.24	233.97	56.91
292.5	320.5	QUARTZ - SERICITE ± GRAPHITE PHYLLITE WITH SULPHIDES													
		(Quartzy and siliceous) 30-70% quartz-feldspar, 0-5% graphite, 5-6% pyrite except 7-55%	2.1/ 2.6		289.2	291.8									
		pyrite between 303-309', 5-5.5% lead-zinc except 14% lead-zinc between 303-309'. F1 local, also mineralized, prominent to 305'.	3.8	1571		297.0	5.2	2.15	4.86	0.94			11.18	25.272	4.888
		Fractured with shearing @ 309-320.5'.	5.8	1572		303.0	6.0	2.08	3.48	0.82			12.48	20.88	4.92
		Core Angles: 55° @ 295', 45° @ 300', 50-40° @ 306-309'. Shearing @ 309' @ 45° to core or 90° to F2. 55° @ 311', 75° @ 319'.	5.8	1573		309.0	6.0	5.93	12.58	2.65			35.58	75.48	15.90
			2.4	1574		312.5	3.5	2.78	5.16	1.29			9.73	18.06	4.515
			2.8	1575		319.5	7.0	2.93	7.68	1.35			20.51	53.76	9.45
			0.5/1.0			320.5									
				Wt. Av.	303.0	319.5	16.5	3.99	8.93	1.81	(62.1)		65.82	147.30	29.865
				Wt. Av.	291.8	303.0	11.2	2.11	4.12	.88	(30.0)		23.632	46.15	9.51

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320.5	330.2	QUARTZ - SERICITE PHYLLITE Bleached buff.													
		35% quartz-feldspar, highly sericitic, talcy; compact when not sheared. Main shearing @ 324-326.5'. Barren execpt narrow bands	/3.0		320.5	323.5									
		of pyrite, lead-zinc at 323.5-326' (1.5%); also @ 328.3-328.5', and	1.3	1576		326.5	3.0	1.00	4.26	.53			3.000	12.780	1.590
		328.8-329.6', approximately 5% pyrite, 6% lead-zinc average.	1.7/1.8			328.3									
		Core Angles: 70° @ 323', 55° @ 329'.	1.9	1577		330.2	1.9	2.40	7.02	1.15			4.56	13.338	2.185
330.2	339.7	MASSIVE SULPHIDES AND QUARTZ - SERICITE ± GRAPHITE - SULPHIDES													
		Massive and near massive sulphides with remnants of quartz-sericite and/or graphite phyllites. Also bands of quartz-	9.5	1578	330.2	339.7	9.5	5.84	10.45	2.59			55.48	99.275	24.605
		sericite-graphite-sulphides and barren sericitic phyllite. Av. is 55% pyrite, 20% lead-zinc.		Wt. Av.	328.3	339.7	11.4	5.27	9.88	2.25	(80.6)		60.04	112.613	26.790
		Core Angles: 60° @ 331'-336', 55° @ 338', 50° @ 339'.													
339.7	351.5	SHEAR ZONE IN DARK GRAY QUARTZ - SERICITE PHYLLITE ACCOMPANIED													
		BY QUARTZ VEIN													
		340-343.6' -- Bull quartz with remnants of phyllite	10.6/		339.7	351.5									
		-351.5' -- multiple shearing in dark gray, thinly laminated phyllite	11.8												
		Core Angles: 50-40° @ 344-347', 70-75° @ 348-350'.													

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351.5	396.0	QUARTZ - SERICITE PHYLLITE Light gray.													
		40-45% quartz-feldspar, thinly laminated. Fairly fresh-looking. Moderately competent. Local F1 poor. Shears @ 375.7'.	17/17.5		351.5	369.0									
		369-375' -- core tube did not lock, therefore, lost core.	0.3/6			375.0									
		Core Angles: 80° @ 352', 65-70° undulating @ 354-402'.	21/21			396.0									
396.0	437.0	QUARTZ - SERICITE - CHLORITE PHYLLITE WITH BANDS OF QUARTZ - SERICITE - GRAPHITE PHYLLITE. Altered.	24.5/25		396.0	421.0									
		50-55% quartz-feldspar, greenish-gray with chlorite phyllite and medium gray with graphitic phyllite. Mainly sericite chlorite phyllite, also chiefly thinly laminated, F1 not well developed but occur throughout.	5/7			428.0									
			9/9			437.0									
		424.8-433' -- highly altered with 60% bleaching, also fractured and moderately sheared, Leached.													
		Core Angles: 70-75° @ 402-409', shear @ 409.2' @ 60° to core/30° to F2, 60° @ 410', 75-80° @ 411-420', 70° @ 421-424 80° @ 424', shears @ 427-429', 40° @ 428', 0° @ 430', 50° @ 432', 80° @ 434', 70° @ 437'.													
437.0	440.0	QUARTZ - GRAPHITE - SERICITE PHYLLITE Dark gray to black													
		50% quartz-feldspar, 30% graphite, thin quartzose banding with thin foliations graphite. Moderate amount of carbonate (calcite ?) Moderately fissile.	2.6/3		437.0	440.0									
		Core Angle: 65-70°.													

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440.0	470.7	QUARTZ - SERICITE - CHLORITE PHYLLITE Altered													
		50-55% quartz-feldspar, 10-20% chlorite, light greenish gray. 445.5-450' -- quartz-graphite phyllite as 437-440'. Thinly foliated and/or thinly laminated quartzose bands.	30.5/30.7		440.0	470.7									
		Core Angle: 70-75°.													
470.7	509.1	INTERBANDED QUARTZ - SERICITE AND GRAPHITIC PHYLLITE													
		470.7-487' -- medium gray and dark gray and dirty buff phyllites 38/38.4 minor chlorite with seritic bands. Moderately altered, numerous quartz lenses, 40% quartz-feldspar, much carbonate.			470.7	509.1									
		-501.5' -- as above but more graphitic -509.1' -- mainly sericitic phyllite with high carbonate content, also minor pyrrhotite - scattered blebs.													
		Core Angles: 70-75° to 483', 75-80° to 507', 85° @ 508'.													
509.1	559.5	QUARTZ - GRAPHITE PHYLLITE													
		45-50% quartz-feldspar, banded - thin to wide banding. 1-2% pyrite occur as splashes, threads or bands parallel foliation and some-	6.9/7.9		509.1	517.0									
		times filling fractures. Moderately fissile, breaking into blocks. Narrow shears from 509.1-540'. Moderately well	6.8/10			527.0									
		developed F1.	2/10 9/10			537.0 547.0									
			4.6/5			552.0									
		Core Angles: 70° @ 509-517', 85° @ 518', 75-70° @ 519-559'.	6/7			559.5									

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559.5	588.0	QUARTZ - SERICITE - GRAPHITE PHYLLITE Dark gray. Siliceous.													
		60-65% quartz-feldspar, mainly hard and siliceous. Does not part as readily as regular phyllite. 2-7% graphite, thinly laminated, mass-looking. Negligible pyrite. Local F1 poorly developed. Shears and fractures @ 563-568', 580-581.5'.	27.5/28.5		559.5	588.0									
		Core Angle: 75° throughout.													
588.0	603.0	QUARTZ - SERICITE PHYLLITE Altered													
		45-50% quartz-feldspar. Moderately sheared zone, rocks altered dirty gray and grayish-buff colour. Parts brecciated and fractured, ankerite filling. Leached fracture and holes -- 3% of core surface.	6/6		588.0	594.0									
			0.8/4.0			598.0									
		Core Angle: 55-65°.	4.5/5			603.0									
603.0	638.0	QUARTZ - SERICITE ± GRAPHITE PHYLLITE Altered													
		50-55% quartz-feldspar, 3-5% graphite in graphitic sctions, felsphatic sections @ 609.7-611.5', 617-619' massive and hard, brown buff colour. Mainly 1/8" - ½" banded phyllites. Many fractures and tension cracks, mostly healed with quartz-carbonate and/or ankerite. Sheared and fissile section @ 623-638'. Many quartz lenses from 630.5-638'. Shearing parallel foliation.	18/18			603.0	621.0								
			7.7/10				631.0								
			1.9/3				634.0								
		Core Angles: 70-75° @ 603-619', 65-70° @ 620-638'.	3.5/4				638.0								

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638.0	666.2	QUARTZ - SERICITE PHYLLITE Bleached buff.													
		45-50% quartz-feldspar, abundant carbonate within F2 bands. Many minute slips, major shears @ 662-664'. Non-competent rock.	9/10			638.0	648.0								
			2.3/10				658.0								
			6.1/8.2				666.2								
		Core Angle: 75-70°.													
666.2	741.0	QUARTZ - SERICITE ± GRAPHITE PHYLLITE Light to medium gray													
		45-50% quartz-feldspar, 0-5% graphite (increasing with depth)	6.2/6.8			666.2	673.0								
		thinly laminated, fissile. Small shears @666.2-677'. Numerous	2.3/4				677.0								
		late slips and shears @ 714-741', offsets unknown.	5.8/6				683.0								
			1.1/5				688.0	(tube did not lock)							
		Core Angles: 75-80° @ 667-673', 70° @ 674-677', 65-60° @ 678-	16.7/19				707.0								
		683', 70° @ 684-718', 90° @ 720', 80° @ 722', 75°	34/34				741.0								
		@ 724', 70° @ 725-740'.													
741.0	780.0	FAULT AND SHEAR ZONE IN QUARTZ - SERICITE PHYLLITE													
		40% quartz-feldspar, scattered ankerite as fracture filling. Main	35/39			741.0	780.0								
		fault @ 741-743.5' mainly gouge. Numerous shears and slips;													
		often with gouge and brecciation. Thinly laminated phyllite.													
		741-748.5' -- altered to buff phyllite with minor lead-zinc and													
		pyrite mineralization.													
		Core Angle: 70°.													
780.0	813.0	QUARTZ - SERICITE PHYLLITE, Partly bleached and totally bleached	buff.												
		780-783' -- altered to dirty light gray with thin foliations of	33/33		780.0	813.0									
		buff sericite.													

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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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
		783 -796' -- totally bleached to buff colour, 0.7% pyrite occuring as splashes within fractures and occur parallel to foliation, spot of pyrite @ 785.6'													
		-808' -- as 780-783', multiple shear @ 805.3-806.4 @ 45° to F2. -813' -- as 783-796', 0.03% band of pyrrhotite @ 815'.													
		Core Angles: 75° @ 784', 80° @ 785', 65° @ 796' (sheared), 75° @ 797', 60° @ 808', 55° @ 810'.													
247.8	268.0 in														
813.0	879.5	QUARTZ - SERICITE - CHLORITE ± BIOTITE PHYLLITE													
		35% quartz-feldspar, 30-35% sericite, 25-30% chlorite, light greenish-gray. Minor brown biotite occuring here and there.	17/17 4.2/5		813.0	830.0 835.0									
		813-821' -- 10% bleached buff sericite. Remaining phyllite show 1-2% buff sericite as foliated threads. Band or splash of pyrrhotite @ 814.8', 843' and 843.6' to 847.5'. Greater pyrrhotite mineralization between 845-879.5' (0.3%) Local F1 moderately developed.	44.5/ 44.5			879.5									
		Core Angles: 85° @ 813.5', 80° @ 815-824', 60-70° @ 825-830', 65-70° @ 831-843', 70° @ 843-863', 75-80° @ 864-870-879-888'.													
11															
	11														
879.5	888.0	QUARTZ - SERICITE - CHLORITE ± BIOTITE PHYLLITE Bleached													
	270.6	40% quartz-feldspar, 4-6% chlorite, minor brown biotite, 0.3% pyrrhotite. Pyrrhotite associated mainly with bands or clots of chlorite, uniformly distributed. Sericite bleached to buff colour.	8.5/ 8.5		879.5	888.0									
11		F1 prominent. Rock massive and competent.													

DIAMOND DRILL RECORD

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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
888.0	954.8	QUARTZ - SERICITE - CHLORITE PHYLLITE Greenish-gray. Altered.													
	291	35-40% quartz-feldspar, 35-45% sericite, 2-15% chlorite, minor pyrite and pyrrhotite. Bands and splashes of pyrrhotite @ 900-	37.6/38		888.0	926.0									
		903.3', 906', 908.5', 914.6', 936.8', 951', and 933.3'. Threads	10.5/ly 11			937.0									
		of buff sericite. Many quartz lenses. Rock massive and moderate													
		firm. Moderate shearing @ 921-928', rocks crumpled in parts.	17.3/17.8			954.8									
		Local F1 poorly developed.													
		Core Angles: 75-80° @ 888-893', 50° @ 894', 80° @ 896-905', 70°													
		@ 908', 50° @ 909', 75° @ 910-921', 55° @ 923', 40°													
		@ 925' (50° shearing @ 927' @ 90° to F2), 60° @													
		929', 70-75° @ 930-937', 75-80° @ 938-953', 70° @													
		955-963'.													
954.8	963.5	QUARTZ - SERICITE PHYLLITE Bleached buff.													
	293.6	40-45% quartz-feldspar, minor pyrite in both F1 and F2. F1 local	8.7/8.7		954.8	963.5									
		poorly developed. Rock firm, less fissile than normal phyllite.													
963.5	971.0	QUARTZ - SERICITE PHYLLITE Altered. Light gray.													
	295.9	35-40% quartz-feldspar, highly altered. Highly contorted at	7.5/7.5		963.5	971.0									
		lower contact. Tight slips and shearing. Gouge at upper contact.													
		Core Angles: 70° @ 964', 80° @ 967', 45° @ 970-972', 70° @													
		974-981'.													
971.0	981.0	QUARTZ - SERICITE PHYLLITE Bleached buff.													
	299	45% quartz-feldspar, similar to 954.8-963.5'. Many tight slips,	10/10		971.0	981.0									
		minor pyrite. 971-973' -- quartz-feldspar breccia in sericitic													
		matrix. Phyllite talcy.													

DIAMOND DRILL RECORD

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PROPERTY

LATITUDE | BEARING OF HOLE | STARTED

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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
981.0	988.5	QUARTZ - SERICITE - GRAPHITE WITH SULPHIDES													
	301.3	Banded light gray sericite-graphite phyllite and banded dissem. sulphides, also bands of high grade lead-zinc sulphides @ 983.2 -	5.4	1579	981.0	986.9	5.9	3.83	7.63	1.5			22.597	45.017	8.85
		299.6 983.7' and @ 980.6-987'. 299.6	1.6/			988.5									
		987-988.5' -- barren, bleached sericite, buff colour. Av. 7% 300.5	1.6												
		300.8 301.3 pyrite, 9-10% lead-zinc (above).													
988.5	999.0	BARITE SULPHIDES AND QUARTZ SULPHIDES BRECCIA													
	304.5	988.5-994.0' -- 30% barite with densely disseminated pyrite (20%) 302.3	9.5	1580	988.5	998.3	9.8	5.84	7.64	2.29			57.232	74.872	22.442
		and lead-zinc (15%) Shows leach holes and vugginess													
		-998.3' -- sulphide breccia and quartz-feldspar breccia re- 304.2	0.7	1581		999.0	0.7	0.18	0.28	0.15					
		cemented in qtz-sulph matrix, 40 Py, 12 PbZn.													
		-999.0' -- as above but with negligible pyrite													
		299 299.9 300.8													
		Core Angle: 70° @ 981', 60° @ 984', 40° @ 985', 55° @ 987', 80°		Wt. Av.	981.0	998.3	17.3	4.61	6.93	1.81	(62.0)		79.829	119.889	31.292
		@ 990', 75° @ 992'. 302.3													
999.0	1043.0	QUARTZ - SERICITE PHYLLITE Bleached buff													
	317.9	45-50% quartz-feldspar, 1-3% pyrite following F2, also in F1 but	5.2/8		999.0	1007.0									
		latter only developed locally.													
		Rock firm but parts readily along foliation planes. Multiple	28/28			1035.0									
		shearing @ 1034-1038'. 999.0-999.8' -- brecciated gray phyllite, 315.1 316.3													
		999.8-1007' -- multiple shearing. 1038-1043' -- 50% bleached buff	2/3			1038.0									
		50% gray phyllite. 316.3													
		306.3 308.4 314	4.3/5			1043.0									
		Core Angles: 60o @ 1005', 70o @ 1007-1012', 75-80° @ 1013-1030',													
		70° @ 1032', 85° @ 1038', 75° @ 1039-1043'. 316.3 318													

DIAMOND DRILL RECORD

LOGGED BY F. Chow

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
1043.0	1057.5	SHEAR AND FAULT ZONE IN PHYLLITES													
	322.3	Rock highly sheared, brecciated, gougey in parts. Mainly bleached buff sericite.	2.4/4		1043.0	1047.0									
		Core Angles: 65° @ 318.2 1044', 40° @ 320 1050', 70° @ 1051'.	4.3/6			1053.0									
			0.7/4.5			1057.5									
1057.5	1103.0	QUARTZ - SERICITE PHYLLITE Medium gray													
	336.2	30-35% quartz-feldspar, thinly foliated, odd speck pyrite fissile, many tight shears and slips. Mild alteration in parts.	16.8/21		1057.5	1078.5									
			2.7/8.5			1087.0									
		Core Angles: 60° @ 322.4 1058', 75° @ 1060-331.3 1087', 70° @ 1088-334.3 1097',	5.1/6.0			1093.0									
			1.8/4			1097.0									
		75° @ 1098', 70° @ 1099'. 335	3.9/6			1103.0									
1103.0	1129.7	QUARTZ - GRAPHITE PHYLLITE Black													
	344.3	60-70% quartz-feldspar, siliceous and hard rock though parts readily along foliation plane. Many shears consequently weak rock formation. (phyllite appears to be fused together - silicified.) Minor pyrite, spot of pyrrhotite.	1.8/8		1103.0	1111.0									
			7.7/9			1120.0									
			9.3/9.7			1129.7									
		Core Angle: 70°.													
1129.7	1141.5	QUARTZ - CHLORITE ± SERICITE ± BIOTITE PHYLLITE Dark green.													
	348	60-70% quartz, 25-30% chlorite, minor dissem. pyrrhotite throughout -- 0.3%. Rock massive but parts easily along foliation	11.3/11.8		1129.7	1141.5									

DIAMOND DRILL RECORD

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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
		planes. Local brown biotite, also glassy hematite stained (?) quartz, "welded" into phyllite @ 1133.1-1133.5'. Rock resembles meta volcanics.													
		Core Angles: 40° @ 1130', 45° @ 1132', 60° @ 1135', 50° @ 1139-1142'.													
1141.5	1164.0	QUARTZ - CHLORITE ± BIOTITE ± SERICITE PHYLLITE (Tuffaceous looking)													
		50-70% quartz-feldspar, quartz lavender in colour with bands rich in chlorite and with bands rich in brown biotite.	12.4/13		1141.5	1154.5									
		1153.5-1154.2' -- brecciated and recemented, 0.04' gouge at 1154.3'. Many fractures, rock not competent.	8.2/9.5			1164.0									
		Core Angles: 60° @ 1143-1153', 85° @ 1154.5', 60° @ 1156', 75° @ 1158', 50° @ 1160', 70° @ 1163', 70-75° @ 1164-1184'.													
1164.0	1184.0	QUARTZ - GRAPHITE PHYLLITE Black													
		55-60% quartz-feldspar, light gray quartzose bands with black graphitic bands, thinly laminated, moderately fissile, crumbly where stressed by shearing or slipping.	3.2/8		1164.0	1172.0									
			10/12			1184.0									

DIAMOND DRILL RECORD

LOGGED BY F. Chow

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

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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
1184.0	1189.0	QUARTZ - SERICITE - CHLORITE Bleached buff.													
	362.4	35% quartz-feldspar, 20% chlorite, highly altered, much carbonate													
		Also, lavender quartz as mentioned in 1141.5-1164'.													
1189.0	1193.5	QUARTZ - SERICITE PHYLLITE Light gray													
	363.7	25-30% quartz-feldspar, thinly foliated, very fissile, soft.													
		Fault @ 1189-1190' -- gouge and rock fragments.													
		Core Angles: 80° @ 1185' (361), 70° @ 1187' (361.7), 80-75-60° @ 1190-1193' (363.4)													
1193.5	1195	LOST CORE													
	364.24														
	1195	END OF HOLE													
		REMARKS: 1. Hole cemented from 1195' up, 12 bags of cement used.													

DIAMOND DRILL RECORD

LOGGED BY T. Takeda

PROPERTY VANGORDA, GRUM JOINT VENTURE

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LINE GRID

LATITUDE 2 + 10S — HIW 34535.23N (10,525.90mN)

DEPARTURE 68 + 05W — 24968.49E (7612.95mE)

ELEVATION 4168.91' — 4210.91' (1283.48m)

BEARING OF HOLE BY TROPARI @ 202' - 110° 50' True; @ 402' - 71° 14'; @ 602' - 59° 51'; @ 802' - 58° 50'

DIP OF HOLE vertical

DIP TESTS BY TROPARI @ 202' -- -85°; @ 402' -- -82°; @ 602' -- -78°; @ 802' -- -73°

STARTED May 1, 1975 D.S.

COMPLETED May 21, 1975 D.S.

DEPTH Proposed: Ultimate: 1060' (323.09m)

HOLE SIZE 0 - 50' BW; 50 - 1060' 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	12.2 40	OVERBURDEN													
40	15.5 51.0	MEDIUM GRAY PHYLLITE S													
		F2 slips @ 80°, coated with graphite. 47.3-48.0' -- pale sericite phyllite. Sheared. F2 slips @ 75°.	5.3/11												
51.0	15.6 51.2	GRAY GOUGE CONTAINING SILICEOUS PEBBLES ST. Pebble													
		Contact @ 30°.	0.2/ 0.2												
51.2	23.8 78.0	DARK GRAY PHYLLITE (582) S													
		Relatively compact and thinly laminated. Fairly uniform. F2 slips vary from 15-80°. Coated with graphite, sericite and also some flakey pyrite. Sporadical occurence of flakey pyrite bearing quartz stringers and patches across F2 foliation, while shear clay bands parallel to F2.	13.9/ 26.8												
78.0	26.2 86 (?)	MEDIUM GRAY PHYLLITE S													
		Prominent F1 crenulations of light gray siliceous bands, swollen irregularly. F2 slips @ 80° , coated with graphite and some sericite.	7.6/8												

DIAMOND DRILL RECORD

LOGGED BY T. Takeda

PROPERTY

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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
86 (?)	27.7 91	MAINLY GRAY SHEAR CLAY 5A shear + G													
		F2 slips in remnant phyllite @ 60°, coated with graphite.	1.8/5												
91	30.5 100	MEDIUM GRAY PHYLLITE 5B2 S													
		More light coloured, siliceous fine banding. F2 slips @ 50-60°. Coated with graphite. At 100' contact - @ 30°. Toward con-	6.3/9												
		tact, F1 more intensely crenulated and containing irregular sugary quartz clots.													
100	31.7 104	GLASSY QUARTZ LENS Q?													
		Containing some gray phyllite inclusions. Contact @ 25° @ 104'.	4/4												
			29/38.9												
104	43.6 142.9	SHEARED AND CRENULATED GRAY PHYLLITE 5B2 sheared S+G													
		Graphite and sericite on F2 slips as well as sporadical elongated pyrite blebs and stringers.													
		F2 slips vary from 25°@ 107-118', 60° @ 119-128', 40° @ 129-132', 55° @ 134-137', 35° @ 138-142'.													
		At 142.9', contact is 60° (?) Gradational but fairly clear.													
142.9	44.0 144.5	BUFF COLOURED SERICITE PHYLLITE S.													
		F2 slips @ 45° to 20°, represented by foliated sericite layers.	1.6/ 1.6												

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
144.5	47.4 155.5	GRAPHITE PHYLLITE Intensely sheared. 5A G													
		F2 slips @ 20°, coated with graphite and some sericite.	11/11												
		146-149.3' -- quartz lenses, intercalating shear clays													
		151-152.3' -- sheared graphitic clay													
		155.2-155.5' -- sheared graphitic clay													
155.5	50.1 164.5	LIGHT GRAY QUARTZ SERICITE PHYLLITE 5B S													
		Intensely crenulated F1 cut by irregular later quartz-siderite	9/9												
		bands and lenses.													
		F2 slips @ 30°, coated with sericite and lesser graphite.													
		159.7-160' -- sheared section at 30°, with green stain (fuschite?)													
		and scattered fresh pyrite blebs.													
164.5	52.7 173	THINLY LAMINATED QUARTZ - SERICITE PHYLLITE S+ shear													
		F2 slips @ 15°. F1 crenulation @ 40° near 173'. At 173' shear	8.4/ 8.5												
		clay is 1" thick.													
173	63.1 207	INTENSELY SHEARED GRAPHITE PHYLLITE shear G													
		Crumpled and shattered into friable flakey chips. F2 slips @	25/34												
		5-10°@173-192' and 70-75° @ 192-207'													
		200-207' -- gray gouge containing buff coloured siliceous pebbles													
		4.5' lost core.													
		shear g													
207	73.5 241	INTENSELY SHEARED GRAPHITE PHYLLITE AND RELATIVE COMPACT													
		CRENULATED GRAY PHYLLITE IN ALTERNATION													
		Some quartz layers and pyrite blebs locally. F2 slips @ 50°(208')	12.5/ 34												

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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
		70° @ 212.5', 80° @ 220.5' and 85° @ 224'. sb													
		221-222' (?) -- "bleached" phyllite with minute sericite specks Fine-grained and buff coloured. Compact and lacking in F2 slips. Barren. Apparently shear contacts on both sides.													
		224-235' -- friable chips of graphite phyllite and gray shear clay in mixture.													
241.	88.1 289.1	SB / SBz SG MEDIUM GRAY PHYLLITE AND LESSER GRAPHITE PHYLLITE													
		Rare buff coloured carbonate bearing quartz veinlets up to 4" thick. Occasional pyrite blebs. Relatively uniform F2 foliation developed.	15.5/ 48.1												
		F2 slips: 60° @ 242', 45° @ 251-274', 55° @ 278' and 65° @ 283'.													
		280.5-282' -- "S" type F1 folding													
		265-266.5' -- gray shear clay enclosing siliceous pebbles													
		283-284' -- gray gouge													
		285.5-286.3'- glassy quartz lens													
289.1	308 93.9	SBZ G.S. QUARTZ - GRAPHITE - SERICITE PHYLLITE													
		Intense F1 crenulation obscured by the development of more closely spaced graphite - lesser sericite layers (1-2mm thick) and irregular sugary quartz bands in alternation. 1-2% pyrite as elongated blebs and hairlines, intersecting F2 slips. F2 slips coated with sericite-graphite and flakey pyrite @ 70-80°.													
		289.1-292' -- glassy quartz lens and gray shear clay													
		294-296.2' -- glassy quartz lens.													
308	375 114.3	MINERALIZED ZONE P													

DIAMOND DRILL RECORD

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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
308	96.5 316.5	PYRITIC "BLEACHED" PHYLLITE (quartz-sericite-phyllite) Sb P													
		Crumpled and shattered. Pyrite as crack filling and banded. Rare remnants of gray phyllite with F2 slips @ 70°, coated with graphite and lesser sericite.	8	1460	308	316.5	8.5	.60	.33	.24					
		312.7-314.3' -- pyritic siliceous zone. Pyrite 35% containing some siliceous and buff coloured fragments.													
316.5	327 99.7	MASSIVE SULPHIDES M													
		60% pyrite, estimate of 15% lead-zinc) Well banded @ 80 average. Fractured and cemented by fine-	6.5	1461	316.5 (317.0 ~	323 323.0)	6.5 (6.0)	1.53	1.40	.59			9.18	8.40	3.54
		grained gray siliceous pyrite. Rare magnetic at 322'. 322.5-323' -- intensely sericitized inclusion of phyllite origin.	4	1462		327	4	4.43	1.22	1.38			17.72	4.88	5.52
		Powdery.		WTAV	317.0	327.0	10.0	2.69	1.33	0.91	(3:1 9m/m.t.)		26.90	13.28	9.06
327	336 102.4	SILICEOUS PYRITIC BRECCIA Py ΔΔ													
		40% pyrite, 0.5% lead-zinc estimate Siliceous breccia with slightly coarse grained pyrite enclosed	8.5	1463	327	336	9	.14	.26	.24			3.6	Pb Zn	
		in the darker gray coloured, finer pyrite and more siliceous matrix. Also sporadical massive pyrite bands. Later fracturing													
		brittled most of the section. Some well polished slickensides. Contact @ 20°													
336	342.5 104.4	MASSIVE PYRITIC BANDS BEARING SILICEOUS PYRITE M													
		Massive bands, siliceous sections with interstitial smudgy graphite-sericite and lesser buff coloured, silicified carbonit-	6.2	1464	336	342.5	6.5	.45	.25	.35			4.6	Pb	
		ized phyllite inclusions. Chalcopyrite blebs common (0.2% copper estimate) on the edge of siliceous portions.													

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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
		Rare galena and brown sphalerite mainly in fine siliceous bands @ 70°.													
		No. 1464 -- 45% pyrite, 0.5% lead-zinc, estimate 0.2% copper													
342.5	375 (114.3)	SILICEOUS PYRITIC BRECCIA ZONE Py Δ													
		Similar to 327-336'. Occasional chalcopyrite blebs and specks on the edge of and in the	9.3	1465	342.5	352.5	10	.15	.14	.18			2.9	Pb Zn	
		siliceous portions. Widely spaced F2 slips @ 75 coated with dark pulverized pyrite.	7.5	1466	352.5	360	7.5	.12	.21	.21			2.5	"	
		No. 1465 -- 50% pyrite, trace of lead-zinc, estimate 0.1% copper		1467				.15	.40	.24	.04	.44			
		No. 1466 -- 40% pyrite, trace of lead-zinc, estimate 0.15% copper													
		No. 1467 -- Silver, gold	8	1468	360	368	8	.18	.40	.15			4.6	"	
		No. 1468 -- 35% pyrite, trace of lead-zinc, estimate 0.1% copper													
		368-370' -- fine-grained sericite-quartz-phyllite. Compact. F2 slips 65° coated with sericite and minor chlorite	2		368	370									
		370' -- silicified fragments show clear contact 80°.		Wt. Av	327.0	368.0	41.0	0.4	Pb Zn						
		370-375' -- cavities in siliceous pyritic breccia (370-373') and then intensely brittled section with sooty pulverized pyrite. Chalcopyrite very rare.	4.8	1469	370	375	5	.13	.36	.18					
		No. 1469 -- 25% pyrite, trace of lead-zinc, trace of copper													
375	393 (119.8)	SHATTERED GRAY PHYLLITE S. g. shear													
		375-380' -- gray gouge. Core loss of 4 feet	9.3		375	393									
		380-383' -- brecciated quartz-sericite phyllite and lesser graphite phyllite mixed with shear clay and crushed pebbles. (382.5?)	(1) (2)												
		383-387.3'- intensely sheared gray phyllite with sericitic coated F2 slips (15°) and shear clay. Sooty dark gouge	(3.8)												

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		(3" wide) at 387.3'. Contact 60°.													
		387.3-393' -- closely spaced wavy F2 slips, 50-70°. Coated with sericite and sooty material.													
393	133.3 437.5	GRAPHITE - SERICITE PHYLLITE Gray coloured G+S													
		Coarse banding of graphite-sericite and light gray siliceous layers (1-5mm thick) Intensely crenulated. Pyrite at 435.3' in sugary quartz. F2 slips @ 35° @ 393-398', 60° @ 419-437.5', coated with graphite and some sericite.													
		398-418' -- 17.3' core lost. Badly broken ground of shear clay. 431-435' -- shear clay. Contact @ 60°.													
133.3 437.5	146.0 479	FINELY LAMINATED, GRAPHITIC PHYLLITE. Light gray coloured. G													
		Increasing lighter coloured siliceous laminae to depth. Intensely crenulated at places. Sporadical barren quartz veinlets (1-3" wide)													
		Well developed uniform F2 slips @ 85-70°. Coated with sericite mainly and some graphite (?)													
146.0 479	147.5 483.9	GRAY QUARTZ - SERICITE PHYLLITE Similar to 393.0-437.5'. S													
		Thicker sericite layers on F2 slips @ 75°. Glassy quartz lens (barren) 5" @ 35°.													

DIAMOND DRILL RECORD

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483.9	1419.9 492	QUARTZ - SERICITE "BLEACHED" PHYLLITE Sb													
		485-488' -- 2 feet of core lost. F2 slips @ 65-80°. Crenulated pyritic bands.													
		483.9-485'- sulphide 3%. Traces of galena-sphalerite.	1.1/1.1		483.9	485.0									
		487.8-492'- 10% pyrite, 0.2% lead-zinc. Recovery 4.2'. Brown sphalerite, thin pyrrhotite bands and some chalcopyrite. Gradational change to pyrite - rare pyrrhotite bands bearing gray phyllite.	4.2/7.0			492.0									
492	151.6 497.3	MEDIUM GRAINED SERICITE - PHYLLITE S													
		Finely laminated @ 85°. Coated with sericite mainly, local graphite and rare flakey pyrite.													
497.3	152.4 500	QUARTZ - SERICITE "BLEACHED" PHYLLITE Sb													
		Crenulated thin pyrite bands and thick sericite layers. F2 slips @ 85° . Coated with well developed sericite-muscovite.	2.7												
		3% sulphides, traces of lead-zinc													
500	155.9 511.6	QUARTZ - SERICITE PHYLLITE AND MINOR GRAY SERICITE PHYLLITE S													
		F2 slips represented by thick sericite-muscovite layers @ 85°. Small remnants of gray sericite phyllite locally.													

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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
511.6	156.4 513	MINERALIZED QUARTZ - SERICITE PHYLLITE SP													
		Pyrite bands, thin Mt layers, pyrrhotite patches and crack filling pyrite blebs. F2 slips @ 65°.	1.4												
513	157.0 515.2	SIMILAR TO 500-511.6 S													
515.2	158.9 521.5	BANDED SULPHIDES - MAGNETITE AND QUARTZ - SERICITE PHYLLITE PS													
		Banding and F2 slips @ 70°. Magnetite in thin elongated patches. Some chalcopyrite blebs (copper 0.1%) Contact @ 521.5' @ 60°.	6.3	1470	515.2	521.5	6.3	1.03	.70	.41					
		No. 1470 -- 1% magnetite, 30% pyrite, 3% lead-zinc													
521.5	159.7 524	MEDIUM GRAY FINELY LAMINATED GRAPHITIC PHYLLITE G													
		F2 slips @ 80° coated with sericite. Rare pyrite blebs.													
524	160.3 526	GRAY SHEAR CLAY clear	1.2												
526	214.6 704	MINERALIZED ZONE P													

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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
	162.9														
526	534.5	BANDED PYRITE - MAGNETITE BEARING SILICEOUS ZONE P.													
		Brown sphalerite, galena, pyrrhotite and magnetite and sporadical chalcopyrite (0.1% copper) Banding @ 65°.	8.5	1471	526	534.5	8.5	3.23	3.18	1.00					
		3% magnetite, 40% pyrite, 5% lead-zinc													
		523.7-528.5' -- highly sericitized - silicified inclusion. Brittled. Contact @ 30°.													
	171.3														
534.5	562	PYRITIC "STRIPE PHYLLITE" ZONE P Sg													
		Vaguely laminated, light gray quartz-sericite phyllite patches. Sulphides (mainly pyrite) as sparse dissem. and thin massive	8.5	1472	534.5	543	8.5	.15	.13	.29					
		bands. F2 slips @ 60-85°.	8	1473	543	551	8	.12	.11	.24	.02	.25			
		No. 1472 -- 30% pyrite, trace of lead-zinc, copper 0.05% Rare brown sphalerite hairlines - stringers. Some	8.9	1475	551	562	11	.17	.24	.29					
		chalcopyrite. No magnetite. 538-538.5' -- gray compact graphitic phyllite with crack filling chalcopyrite blebs.	4.9	1476	562	567	5	.10	.14	.06					
		No. 1473 -- 30% pyrite, trace of lead-zinc		Wt. Au	534.5	567.0	32.5	0.3	Pb Zn						
		No. 1474 --													
		No. 1475 -- 30% pyrite, trace 0.5% lead-zinc, estimate 0.1% copper													
	172.8														
562	567	QUARTZ - SERICITE PHYLLITE INCLUSION Banding at 70° S													
		Sporadical pyrite bands up to 1" wide and lesser dissem. Sphalerite-chalcopyrite bearing pyrite bands on the rim of													
		siliceous band at 566.6'. No. 1476 -- 5% pyrite, trace of lead-zinc, trace of copper													

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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
567	571 (174.0)	SILICEOUS HEAVY SYLPHIDE BANDS IN QUARTZ - SERICITE PHYLLITE (P S)													
		Banding at 70° Relatively coarse grained brown sphalerite-galena-pyrite-chalco-pyrite bands on the both limbs of double folded axis (3" wide) 570' -- start of barite in matrix No. 1477 -- 20% sulphide, 4% lead-zinc, trace of copper	4	1477	567	571	4	2.18	3.00	.74			8.72	12.00	2.96
571	575 (175.3)	BANDED SULPHIDES IN BARITE RICH MATRIX (P. ba.)													
		Banding at 85°. Apparently double folded limbs along the F1 folding axis at 573.2'.	4	1478	571	575	4	4.5	5.55	1.59			18.00	22.20	6.36
		No. 1478 -- 30% sulphides, 14% lead-zinc, trace of copper No. 1479 -- 30% pyrite, 3% lead-zinc, estimate 0.1% copper	4.5	1479	575	579.5	4.5	.20	.28	.26					
				WT. AV.	567.0	575.8	8.0	3.34	4.28	1.17	(39.9)		26.72	34.20	9.32
575	579.7 (176.7)	MASSIVE HEAVY PYRITE BANDS IN SILICEOUS MATRIX (M.(S.))													
		F2 slips @ 85°, coated with sericite and sooty material. Irregular barite patches in pyrite rich portion.													
579.7	584.8 (178.2)	QUARTZ - SERICITE PHYLLITE Fine grained (S.)													
		F2 slips @ 70-50-30°, then intensely crenulated. Welded contact with heavy sulphide zone in siliceous matrix @ 90° more or less. Also sulphide fills cracks into phyllite.													

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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
584.8	181.3 594.8	P (S) HEAVY PYRITIC BANDS IN SILICEOUS MATRIX													
		Erratic dark F2 slips @ 70°, coated with sericite and sooty material. Angular fragments of possible dark gray phyllite origin at 586'.	10	1480	584.8	594.8	10	.18	.42	.26			6.0 Pb Zn		
		Scattered chalcopyrite blebs and rare pyrrhotite in patchy quartz (592.1')													
		No. 1480 -- 30% pyrite, trace of lead-zinc, some chalcopyrite													
594.8	181.4 595.3	S FINE GRAINED QUARTZ - SERICITE PHYLLITE INCLUSION													
		F2 slips @ 80°.	/05		594.8	595.3							0		
595.3	184.6 605.5	M MASSIVE AND HEAVY PYRITIC BANDS IN SILICEOUS MATRIX													
		Sporadical, weak brown sphalerite bands. Banding @ 70-65°. (Sulphides and rare F2 slips)	10.2	1481	595.3	605.5	10.2	0.24	0.51	0.38			7.65 Pb		
		No. 1481 -- 40% pyrite, 1% lead-zinc, some copper		WT. AV.	584.8	605.5	20.7	0.7	Pb Zn				13.65 "		
605.5	185.0 607	S. PALE QUARTZ - SERICITE PHYLLITE													
		F2 slips @ 65°.	/1.5		605.5	607.0									
607	186.9 613.3	P HEAVY PYRITE - SPHALERITE BANDS IN SILICEOUS MATRIX AND BARREN													
		QUARTZ - SERICITE PHYLLITE Both crenulated. Brown sphalerite relatively coarser grained and visible with	6.3	1482	607	613.3	6.3	1.95	3.24	0.88					

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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
		naked eye. Less sphalerite (611-613.3')													
		No. 1482 -- 30% sulphides, 12% lead-zinc													
613.3	616.5 (187.2)	QUARTZ - SERICITE PHYLLITE with qtz. veinlets	13.2		613.3	616.5									
616.5	209.6 687.8	MINERALIZED "STRIPE" QUARTZ-(GRAPHITE) PHYLLITE P G													
		Crenulated dark gray (up to 7") and siliceous layers (up to 4mm)	10.5	1483	616.5	627	10.5	.10	.24	.21					
		Fine grained pyrite mainly as dissem in intersecting siliceous bands and also as blebs in the vicinity of leached pore and cavities by shattering. √Chalcopyrite blebs (618.5' and others)	10.5	1484	627	637.5	10.5	0.20	0.15	0.24					
		Rare F2 slips @ 80-90°. Both in long siliceous sections.	10.5	1485	637.5	648	10.5	.60	.13	.41					
		631.5-633' -- more pores and cavities by leaching through shattered fractures.	10.5*	1486	648	658	10	.07	.19	.18	.02	.22			
		636' -- sphalerite bands													
		636.5' -- chalcopyrite blebs	7.5*	1487	658	665	7	.12	.21	.24					
		669.8-671.8'- shattered quartz veinlet cemented by massive pyrite													
		673-678.5' -- banded sulphides zone @ 80°. Brown sphalerite and pyrite bands in gray siliceous	10 *	1488	665	673	8	.43	.20	.32					
		remnant of phyllite. Sporadical chalcopyrite blebs	4.0	1489	673	678.5	5.5	3.08	2.94	1.09					
		Abundant dissem. of magnetite grains as well as thin magnetite bands.	4.5	1490	678.5	683	4.5	.24	.16	.26					
			4.8	1491	683	687.8	4.8	.43	.32	.32					
		No. 1490: 678.5-683' -- less dark bands of "stripes". Shattered aggregates of quartz-carbonate cemented		WT. Au	616.5	673.0	56.5	0.4	Pb Zn						
		by chalcopyrite blebs and massive pyrite and rare pyrrhotite. Rare brown													
		sphalerite in faintly coloured bands at 680.5'. F2 @ 80°.													
		683-687.8' -- sharp change from mineralized "stripe" Quartz-graphite phyllite to banded													

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		No. 1483 -- 20% pyrite, traces of lead-zinc, trace of copper													
		No. 1484 -- 15% pyrite, trace of lead-zinc, trace of copper No. 1485 -- 15-20% pyrite, traces of lead-zinc													
		No. 1486 -- 15% pyrite, traces of lead-zinc, trace of copper @ 0.2% Some silver and gold													
		No. 1487 -- 15% pyrite, traces of lead-zinc, trace of copper No. 1488 -- 15% pyrite, 1% lead-zinc, trace of copper													
		No. 1489 -- 15% pyrite, 8% lead-zinc, copper 0.1%, 3% magnetite													
Striped	Phyllite	No. 1490 -- 12% pyrite, traces of lead-zinc, 0.25% copper													
"	"	No. 1491 -- 20% pyrite, 1% lead-zinc, trace of copper													
Banded	Sulphide	No. 1492 -- 12% pyrite, 2% lead-zinc													
"	"	No. 1493 -- 30% pyrite, 12% lead-zinc, 5% magnetite and pyrrhotite													
"	"	No. 1494 -- 5% pyrite, 1% lead-zinc, and greater than 1% magnetite													

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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
		sulphide zone at 687.8'. Good sphalerite mineralization (683-684.2') Sporadical chalcopyrite blebs. Near 687.8' gentle "S" type folding. F2 slips @ 70°.													
687.8	691 (210.6)	FOLDED SILICEOUS SULPHIDE BANDS P (S)													
		Minor inclusions of barren folded quartz-sericite phyllite. Pyrite and very fine grained galena mixed with lesser sphalerite.	3.2	1492	687.8	691	3.2	.25	.22	.29					
				WT.AV.	678.5	691.0	12.5	0.6	Pb Zn						
691	695.3 (211.9)	SILICEOUS SULPHIDE ZONE Fine-grained P													
		On the average, banding at 60° down to folding axis at 693.2' and then @ 70° on the other way for short section.	4.3	1493	691	695.3	4.3	6.53	7.54	2.41			28.079	32.422	10.363
		Pyrite, brown sphalerite, fine dissem. magnetite 5% and pyrrhotite bands near 692'. Contact to next, rugged but well welded.													
695.3	704 (214.6)	MAINLY QUARTZ - SERICITE PHYLLITE WITH SPORADICAL SILICEOUS PS													
		SULPHIDE BANDS			(695.3~	(701.0)	(5.7)						4.56	4.731	1.653
		Very good brown sphalerite-galena bands (697.8-704') Some disseminated magnetite ≤ 1% (700-702')	8.6	1494	695.3	704	8.7	.80	.83	.29					
				WT.AV.	691.0	701.0	10.0	3.26	3.72	1.20	(41.2)		32.639	37.153	12.016

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704	223.2 732.3	MEDIUM GRAY PHYLLITE Finely laminated S													
		F2 slips @ 60-75°, coated with sericite. Siliceous laminae shows intense crenulation locally.													
		719-719.5' -- sheared zone 705.2' -- shear clay 1" wide, @ 70° 732.3' -- contact. Welded and clear. 70°													
732.3	224.9 737.7	MASSIVE SULPHIDES M													
		Containing angular or crushed quartzose pebbles in various sizes Intensely crenulated. Sharp contact @ 737.7' @ 35°.	5.4	1495	732.3	737.7	5.4	1.63	1.20	.59					
		Irregular pyrrhotite bands, brownish sphalerite and galena. Interstial chalcopyrite in small amount.													
		75% sulphides, 4% lead-zinc, traces of copper													
737.7	230.4 756	DARK GRAY GRAPHITE PHYLLITE (P) G shear													
		Least laminated. Intensely sheared locally. Several glassy quartz lenses (½ - 4" wide) more or less concordant to F2	16												
		foliation. F2 slips @ 75-80°, coated with graphite. 1" gouge at 755.5'.													
		745.6-746.1' -- siliceous pyritic lens. 30% pyrite, 2% lead-zinc													
756	236.5 776	DARK GRAY GRAPHITE PHYLLITE G													
		Almost massive. Rare lamination of light gray siliceous layers indicate crenulation. Glassy quartz veinlets rare. F2 slips fairly uniform @ 70°.													

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776	244.9 803.5	MEDIUM GRAY PHYLLITE Finely laminated S													
		Sporadical F2 slips @ 85-75 , coated with some graphite and sericite (?) Occasional gentle folding.													
		784-787' -- sheared section													
803.5	254.5 835	LIGHT GRAY LAMINATED PHYLLITE Sheared S													
		Probably F1 crenulation well developed. Closely spaced F2 slips combined with F2 slips show wavy foliation. 70-75° on average, coated with sericite. Very poor core recovery.	20												
		818-819' -- shear clay @ 60°. Containing siliceous phyllite.													
		827.6-828'- post-mineralization quartz lens.													
835	258.0 846.5	DARK GRAY GRAPHITE PHYLLITE G													
		Mostly massive with intermittent laminated sections. Blocky and weakly sheared. Crenulation sporadical and locally intense.													
		F2 slips @ 70-75°, coated with graphite.													
846.5	260.1 853.5	846.5-847.5? FAULT F. G													
		Only 1' of core recovered. Dark gray shear clay containing glassy quartz chips and graphite phyllite. Contact @ 65° at 847.5' (?)	3/7												
		847.5-853.5' -- mineralized zone	6.0		847.0	853.5		2 % Pb+Zn, Est.							
		Siliceous pyritic section and dark gray crumpled graphite phyllite in mixture. Intense crenulation with wavy F2 planes. F2 @ 50°.													

DIAMOND DRILL RECORD

LOGGED BY T. Takeda

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
		Brown sphalerite in pyritic sections. 10% pyrite, 3% lead-zinc.													
		No sampling.													
853.5	264.1 866.5	MEDIUM GRAY GRAPHITE PHYLLITE G Jones													
		Bad blocky ground due to sporadical occurrence of shear clay. Locally crenulated. F2 slips @ 75°, coated with thick graphite.	7.5/ 13												
		Poor core recovery (858-866.5') 3.5 feet core for 8.5' run.													
866.5	271.7 891.5	MEDIUM GRAY LAMINATED (GRAPHITE) PHYLLITE Blocky G													
		F2 @ 75°generally, coated with thick graphite layer. 880-891' -- only hard portion with glassy quartz veinlets	9.5/ 25												
		recovered. Very poor core recovery (0.5' for core for 11 foot run)													
891.5	275.5 904	DARK GRAY PHYLLITE WITH BLEACHED SECTIONS Sb													
		Very fine lamination of light gray hairlines. F2 @ 75° generally with thin graphite coating. Bleached sections concordant to	11/ 12.5												
		foliation and buff coloured. 894-895.5' -- silicified breccia veinlet. 85°. Minor pyrite.													
904	278.6 914	DARK GRAY GRPHITIC PHYLLITE Af G													
		Fine lamination and foliation. Blocky. Wavy F2 slips @ 80°, coated with thick graphite layers.	6/10												

DIAMOND DRILL RECORD

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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
		912.5-913' -- shear clay and quartz													
914	281.9 925	MEDIUM GRAY PHYLLITE Highly sheared S+g													
		Very fine light gray laminae showing intense crenulation locally F2 slips @ 70°, coated with sericite and graphite.	6.5/ 10.5												
		923.5-925' -- glassy quartz and gray shear clay gouges.													
925	288.9 948	DARK GRAY PHYLLITE S + Fault													
		Mostly soft dark layers with very thin siliceous laminae. Creunlation present locally. F2 slips @ 70° generally, coated	10.7/ 23												
		with sericite and sooty dark material. Very poor core recovery. Recovery: 925-934' -- 7.5/9' Very poor.													
		934-940' -- 0.2/6' 940-942' -- 1/2'													
		942-948' -- 2/6 940-942' -- fault. Sheared gougey clay with siliceous breccias and quartz-graphite phyllite													
948	290.5 953	NO CORE. GOUGEY FAULT? fault?	0/5												
953	293.4 962.5 ?	SILICEOUS BRECCIATED PYRITE g-Py													
		Folding axis @ 958.7'. F2 slips @ 70°, coated with graphite and sooty pulverized material (of possible pyrite origin?) 15% pyrite	6/9.5												

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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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 lead-zinc.													
		960.2-961' -- gray gouge carrying sporadical fine pebbles. Wavy slickenside @ 10°.													
962.5 ?	295.0 968	G FRIABLE LAMINATED GRAPHITE PHYLLITE AND DARK GRAY GOUGE WITH													
		PEBBLES	2.3/ 5.5												
968	299.5 982.5	G P LAMINATED QUARTZ - GRAPHITE PHYLLITE													
		Badly broken due to shearing and occasional foliation parallel to core axis. Magnetite and pyrite as small lenses and blobs.	9.7/ 14.5												
		Sporadical occurrence of very weak sphalerite mineralization. F2 slips ranging from 0-40-45-60°, coated with heavy graphite.													
		Core Recovery: 968-974' -- 3.5/6'													
		974-976' -- 1.2/2													
		976-978' -- 1.2/2													
		978-980' -- 1.4/2													
		980-982.5 - 2.4/2.5													
		973.5?-982' -- Minor brown sphalerite in siliceous laminae and hairlines.													
		No. 1496 -- 1% pyrite, 0.1% lead-zinc													
982.5	300.5 986	Fault DARK FAULT GOUGE													
		Containing pulverized pyrite and pebbles of graphite phyllite.	2/3.5												

DIAMOND DRILL RECORD

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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
986	303.6 996 ?	QUARTZ - GRAPHITE PHYLLITE Intensely sheared G													
		F2 slips @ 45-65°, coated with striated thick graphite.													
		990' (?) -- siliceous brecciated vein. 1" wide													
		Gouge @ 991-991.5' and 995.5-996'													
		978-981' -- trace of sulphides													
996 ?		Sharp contact @ 50°.													
996 ?	304.1 997.8	SILICIFIED SERICITE - GRAPHITE PHYLLITE Sg (P)													
		Good core recovery													
		1% pyrite and trace of chalcopyrite (minor sulphides)													
997.8		Contact @ 30°.													
997.8	307.2 1008	QUARTZ MUSCOVITE - SERICITE PHYLLITE S.													
		Occasional dark gray phyllite sections with gradational change													
		Minor pyrite and trace of chalcopyrite in dark phyllite. F2													
		slips show prominent warping @ 60° generally, coated with thick													
		layers of muscovite-sericite.													
		Sporadical quartz veinlets up to 4" with narrow pyrite.													

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
1008	312.1 1024	PINKISH PALE GREENISH GRAY QUARTZ - SERICITE PHYLLITE Compact S P													
		Sporadical dark gray-greenish gray phyllite inclusions. Both phyllites finely laminated. 1% pyrite, trace of pyrite as crack filling.													
		1008.6'-1009' -- shear													
		1013.5-1014.7'-- breccia vein	1.2		1013.5	1014.7		1 %	Pb Zn,	Est.					
		Crushed quartz and silicified phyllite cemented by irregular shaped massive sulphides (pyrite brown sphalerite, pyrrhotite and chalcopyrite)													
		50° @ 1013.5' and 75° @ 1014.7' 5% pyrite, 1% lead-zinc. Core 1.2/1.2' run. No sampling.													
1024	323.1 1060	BIOTITE - CHLORITE - SERICITE PHYLLITE bio, Cs													
		Greenish-gray coloured. Very fine lamination with intense crenulation locally. Blotty brownish tint caused by fine biotite.													
		Colour darkened to the bottom. Magnetite in dark brown biotite bearing section (1036-1037') Pyrrhotite specks in carbonate													
		white bands (crack filling) F2 slips generally @ 80°, coated with muscovite-sericite layers and some chlorite.													
	1060	END OF HOLE													
	323.1 rec														
		REMARKS: 1. D.D.H. cut water flow (20 gpm? @ collar) @ 250-400'													
		2. D.D.H. cemented between collar + 400' to collar + 1060'.													
		3. BW casing left in hole. Hole left open for emergency water supply (50' BW casing with casing shoe #44ZW 983													

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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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: Hole quit making water after the rocks were pulled; believe water will come to surface if rods or pipe were placed back to about 250-300'.													

DIAMOND DRILL RECORD

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PROPERTY VANGORDA, GRUM JOINT VENTURE

CLAIM No.

DIRECTION AND DISTANCE FROM NE. CLAIM POST

	LINE GRID	HIW				
LATITUDE	9 + 86 N	36091.72N (11,000.76m N)	**BEARING OF HOLE** BY TROPARI	202' 442' 662' 862'	279° 50' 69° 36' 13° 20' 36° 50'	**STARTED** May 12, 1975 D.S.
DEPARTURE	L 78 W	25069.06E (7641.05m E)	**DIP OF HOLE** (90°)	1062'	80° 50'	**COMPLETED** May 21, 1975 N.S.
ELEVATION	4262'	4303.90' (1311.83m	**DIP TESTS** BY TROPARI	202' 442' 662' 862' 1062'	-88° -87° -85° -83° -80°	**DEPTH** Proposed: 1140' Ultimate: 1141' (347.78m)

HOLE SIZE 0 - 86 BW; 86 -1141 BQ

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	86	OVERBURDEN	0/86		0	86									
86	107	GRAY-BLACK STRIPED QUARTZ - GRAPHITE PHYLLITE													
		Mineralized - thin bands of purple sphalerite, bleby pyrite, galena, concentrated mainly in F2 foliation. Sulphide content	2.5	1646	86	91	5	2.28	5.58	1.18			11.4	27.9	5.9
		varies 5-10%. Sphalerite rich in higher grade sections. Note - rock is quite quartzitic. Quite broken.	4	1647	91	95	4	1.60	3.84	.76			6.4	15.36	3.04
		No. 1646 -- quartz-graphite-phyllite, 5-6% sulphides, 6% lead-zinc	3.5	1648	95	100	5	2.00	4.02	.91			10	20.1	4.55
		No. 1647 -- quartz-graphite-phyllite, dissem. pyrite, sphalerite, galena, 2-5% sulphides, 2-4% lead-zinc	2.5	1649	100	107	7	1.85	3.90	.88			12.95	27.3	6.16
		No. 1648 -- as above. Fine-grainned dissem. sphalerite. No. 1649 -- 2-3% sulphide, 1-2% lead-zinc, fine-grainted													
		sphalerite			86.0	107.0	21.0	1.94	4.32	(32.19g/m.t.) .94	Weighted Average		40.75	90.66	19.65
		Core Angle: 95' = 45°; 100' = 25°.													
107	134	PALE GRAY-WHITE QUARTZ - SERICITE PHYLLITE Mineralized													
		Brecciated, mylonized 111-118'; pale green mariposite at 128.5'. Rock broken.	1.2	1795	107	115	8.0	1.23	3.30	0.44			9.84	26.40	3.52
		Mineralization: fine-grained pyrite, sphalerite, minor galena, chalcopyrite locally fine-grained marcasite. Note bleby nature	3.3	1650	115	118	3	2.20	3.48	1.00			6.6	10.44	3.0
		of pyrite. No. 1650 -- mineralized breccia, quartz-sericite phyllite	3.2	1651	118 (123.0~	123 124.8)	5 (1.8)	2.35	4.32	.91			11.75 2.97	21.6 5.508	4.55 1.278
		3-4% sulphides, bleby pyrite, sphalerite, galena, minor chalcopyrite, 3-5% lead-zinc	1	1652	123	128	5	1.65	3.06	.71			8.25	15.3	3.55
		No. 1651 -- as above, 2-5% sulphides, 3-5% lead-zinc No. 1652 -- as above, 1-2% sulphides, 1% lead-zinc	2.5	1796	128	134	6.0	1.23	4.59	0.53			7.38	27.54	3.18

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
		Note minor sphalerite 1% @ 128-134'.													
		Core Angles: 63° @ 120', 45° @ 130': note mariposite		WT. AV WT. AV	107.0 115.0	134.0 124.8	27.0 9.8	1.62 2.18	3.75 3.83	0.66 0.90	(22.6 g/ton) (30.9)		43.82 21.32	101.28 37.548	17.80 8.828
134	150.5	BLACK STRIPED QUARTZOSE, MINERALIZED GRAPHITIC PHYLLITE													
		Buff carbaonates locally associated with green mariposite. Sulphide content varies from 2-3% to 7-8%. Locally thin (0.5-1')	4	1653	134	138	4	2.18	5.88	.91			8.72	23.52	3.64
		sections of massive sulphide. Mineralization - fine-grained purple sphalerite, minor galena. Local massive pyrite with	3	1654	138	143	5	1.48	3.48	.71			7.4	17.4	3.55
		pyrrhotite and minor magnetite at 137'. Minor chalcopyrite. Note fine-grained sphalerite generally predominates concentrated	4	1655	143	147	4	1.63	3.78	.71			6.52	15.12	2.84
		in F2 foliation. Grade varies 1-2% to 8%.	3.1	1656	147	150.5	3.5	2.20	5.76	1.15			7.7	20.16	4.03
		No. 1653 -- mineralized phyllite, 5-6% sulphides, 6-8% lead-zinc, sphalerite rich											30.34	76.20	14.06
		No. 1654 -- mineralized, 6% sphalerite, 3-5% lead-zinc: pyrite, sphalerite, pyrrhotite, chalcopyrite			134	150.5	16.5	1.84	4.62	.85 (29.2 g/ton)	Weighted Average				
		No. 1655 -- mineralized phyllite, 5-8% sulphides, 5-6% lead-zinc: sphalerite, pyrite, galena													
		No. 1656 -- mineralized phyllite band (1") massive sphalerite rich in sulphides: 10-15% lead-zinc, 30% sulphide													
		Core Angles: 80° @ 140', 63° @ 145', 60° @ 150' in M.S.													
150.5	169.5	PALE WHITE MINERALIZED QUARTZITIC PHYLLITE													
		Locally green mariposite, buff carbonate zones. Rock quite broken. Mineral: fine-grained sphalerite, pyrite lesser galena	3.9	1657	150.5	155	4.5	.34	1.90	.18					
		concentrated in F2. Sulphides up to 10%. Grade: 6-10% lead-zinc	2.2	1658	155	160	5.0	3.30	5.52	1.47			16.50	27.60	7.35

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
		No. 1657 -- weak mineralized quartz-sericite phyllite mariposite.	1.5	1659	160	165.5	5.5	.28	.96	.15			1.54	5.28	0.825
		2-3% sulphides, 1% lead-zinc. No. 1658 -- mineralized quartz-sericite phyllite, 10% sulphide,	3.4	1660	165.5	168.9	3.4	2.93	5.88	1.32			9.962	19.992	4.488
		6-8% lead-zinc, rich sphalerite No. 1659 -- weak mineralized phyllite, less than 1%	1.6		168.9	169.5									
		No. 1660 -- mineralized quartz-sericite phyllite, 8-10% sulphides, 8% lead-zinc, sphalerite rich.		Wt. Av.	155.0	168.9	13.9	2.01	3.80	0.91	(31.2)		28.002	52.872	12.663
		Core Angle: 48° @ 160', 57° @ 165'.													
169.5	176	WHITE-GREEN QUARTZ MARIPOSITE PHYLLITE													
		Minor pyrite blebs. Creamy carbonate sericite. Core Angle: 72° @ 170', F2 dominant.	5.5/ 6.5		169.5	176		Negligible		lead-zinc					
176	222	BLACK STRIPED QUARTZ - GRAPHITIC MINERALIZED PHYLLITE													
		Well defined F2. F1 quartz laminae (1-2mm) crenulated, subvertical to F2. Possibly at F2 fold nose. Mineralized - fine-grained	5	1661	176	186	10	1.60	1.96	.62					
		dark purplish sphalerite speckled with pyrite. Fine-grained galena with sphalerite. Some massive sphalerite, galena, pyrite	2.8	1662	186	193	7	1.48	3.36	.65					
		bands up to 2-3" wide. Grade varies 1-2% lead-zinc to 15-20% lead-zinc or greater. Sulphide 1-2% to locally 25-30%. Note,	2.5	1663	193	195.5	2.5	1.93	4.50	1.00					
		the rock is quite quartzitic - up to 70% quartz.	5.5	1664	195.5	201	5.5	3.90	9.08	1.88			21.45	49.94	10.34
		No. 1661 -- weak mineralized phyllite, 2-3% sulphides, 1-2%	3	1665	201	206	5	3.15	5.16	1.26			15.75	25.80	6.30
		lead-zinc No. 1662 -- mineralized phyllite, 6-8% sulphide, 2-3% lead-zinc	3	1666	206	213	7	4.35	6.36	1.68			30.45	44.52	11.76
		No. 1663 -- mineralized phyllite, 5-8% sulphides, 3-5% lead-zinc	5	1667	213	222	9	1.95	3.30	.88					
		No. 1664 -- mineralized phyllite, 10-15% sulphide, 8-11% lead-zinc													
				Wt. Av	195.5	213.0	17.5	3.87	6.87	1.62	(55.6)		67.65	120.26	28.40

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
		No. 1665 -- as above - 8-10% sulphides, 8% lead-zinc, sphalerite rich. 203-206' -- 1 foot recovered													
		No. 1666 -- as above - 8-10% sulphides, 8% lead-zinc, sphalerite rich.													
		Note - 206-209' -- 2 feet recovered, 209-213 feet -- 1 foot recovered													
		No. 1667 -- weakly mineralized striped graphite phyllite, 3-5% sulphides, 1% lead-zinc													
		Core Angle: 200' = F1 subvertical, F2 = 25°.													
222	242.5	WHITE, MINERALIZED, QUARTZ - RICH SERICITE PHYLLITE	1/2.3		222.0	224.3	—								
		Abundant red sphalerite and less galena concentrated in both F1 and F2 laminae. Rock quite siliceous. Up to 25-30% sphalerite	4.7	1668	224.3	229	4.7	2.85	4.50	1.09			13.40	21.15	5.12
		rich sulphide. Grade 10-15% lead-zinc. Note thin zones of green mariposite at 222-224.4'.	5.0	1669	229	234	5.0	2.13	3.96	1.03			10.65	19.8	5.15
		Quartz rich F1 laminae well defined, good F2 foliation.	5.0	1670	234	239	5.0	1.40	3.54	.59			7.	17.7	2.95
		No. 1668 -- white, quartz rich sericite phyllite, 20-25% sulphide, 10-12% lead-zinc	3.5	1671	239	242.5	3.5	2.43	5.40	1.03			8.51	18.9	3.61
		No. 1669 -- white, quartz rich sericite phyllite, 20% sulphide, 10% lead-zinc													
		No. 1670 -- white, quartz rich sericite phyllite, 15-20% sulphide, 8-10% lead-zinc			224.3	242.5	18.2	2.17	4.26	.93 (3107)	Weighted Average		39.56	77.55	16.83
		No. 1671 -- white, quartz rich sericite phyllite, 15-20% sulphide, 10% lead-zinc													
		All above: fine-grained, red sphalerite, galena, blebs of pyrite in F2 mainly, but also F1. Rock quite quartzitic.													
		Core Angle: 220' ⊕ F2 = 46°; 230' ⊕ F2 folds, F2 = 63°; 240' = 61°.													

DIAMOND DRILL RECORD

LOGGED BY S. B. Reamsbottom

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
242.5	246.5	PALE - BUFF to GREEN QUARTZ-CHLORITE PHYLLITE													
		With buff quartz-carbonate laminae. Specks of pyrite disseminated throughout.	4.0		242.5	246.5	—								
		Core Angle: 70° @ 245'.													
246.5	269.3	PALE WHITE, MINERALIZED QUARTZITIC SERICITE PHYLLITE													
		With orange-red sphalerite, pyrite and galena concentrated mainly in F2 foliation. 10-20% sulphides, 8-10% lead-zinc. Quartz rich	2.5	1672	246.5	249	2.5	1.45	4.74	.59					
		laminae (5 mm) locally boudinaged with sulphides concentrated in necks. Tensional gashes filled with fine-grained sphalerite,	5.0	1673	249	254	5.0	3.60	10.82	1.47			18	54.1	7.35
		galena and pyrite. Incipient boudinage.	5.0	1674	254	259	5.0	3.60	7.08	1.76			18	35.4	8.8
		No. 1672 -- mineralized quartz phyllite, 5-8% sulphide, 5% lead-zinc	5.0	1675	259	264	5.0	3.45	5.64	1.50			17.25	28.2	7.5
		No. 1673 -- mineralized quartz phyllite - bands of pyrite, orange sphalerite, 10-15% sulphide, 10-12% lead-zinc	5.3	1676	264	269.3	5.3	4.05	7.08	1.65			21.47	37.52	8.75
		No. 1674 -- as above, 10% sulphide, 8-10% lead-zinc													
		No. 1675 -- as above, 10-15% sulphide, 10-12% lead-zinc													
		No. 1676 -- as above, 10-15% sulphide, 10% lead-zinc													
		Core Angle: 51° @ 250', post mineralized fault subvertical; 69° @ 260', 72° @ 265'.			249	269.3	20.3	3.68	7.56	1.68 (64.7)	Weighted Average		74.72	155.22	32.40
269.3	275.8	BUFF to GREEN QUARTZ-CHLORITE PHYLLITE WITH TWO BANDS OF MINERALIZED													
		SPHALERITE RICH QUARTZ - SERICITE PHYLLITE	6.5	1677	269.3	275.8	6.5	.70	2.58	.29					
		Core Angle: 63° @ 270', F2 dominant.													
		No. 1677 -- chlorite-phyllite with bands (1") sphalerite rich quartz phyllite, 1-2% lead-zinc.													

DIAMOND DRILL RECORD

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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
275.8	302.8	PALE WHITE QUARTZ - RICH MINERALIZED SERICITE PHYLLITE													
		Abundant dark red sphalerite, galena, less pyrite. Chalcopyrite in tension gashes. Rock locally brecciated: white quartz-sericite fragments in sulphide matrix. Pyrrhotite in these zones. F2 dominant - sulphide in F2 and also F1 laminae. 10-35% sulphide, grade +8, locally 20% lead-zinc. Local zones (0.5') of bright turquoise green mariposite -- last 1.4' of section for example.	5.6	1678	275.8	281.4	5.6	4.43	7.68	1.76			24.808	43.008	9.856
			6.6	1679	281.4	288.0	6.6	2.33	4.44	1.00			15.378	29.304	6.600
			4.4	1680	288 (291.4 ~	292.4 292.4)	4.4 (1.0)	3.53	6.48	1.38			15.53 3.53	28.51 6.48	6.07 1.38
			5.6	1681	292.4	298	5.6	4.99	8.76	2.06			27.94	49.06	11.54
			3.4	1682	298	301.4	3.4	3.68	7.80	1.41			12.51	26.52	4.79
			1.4		301.4	302.8	—								
				Wt. Av.	275.8	301.4	25.6	3.76	6.89	1.52	(5210)		96.17	176.40	38.858
				Wt. Av.	291.4	301.4	10.0	4.4	8.21	1.77	(60.7)		43.986	82.056	17.71
		Core Angle: 80° @ 280', 67° @ 290', F2 folds 87° @ 300',													
302.8	363.5	DARK GRAY & BLACK, STRIPED, MINERALIZED QUARTZ-GRAPHITIC PHYLLITE													
		Minor zones (1-2') of paler gtz-serv phyllite w/minor green mariposite. Also buff quartz-sericite-carbonate phyllite (358-359').	5.2	1683	302.8	308	5.2	1.63	3.60	.71			8.48	18.72	3.69
		Mineralization: sulphide 10-20%, red-orange sphalerite, pyrite, minor galena; pyrrhotite and magnetite at 353'. Grade varies	3.4	1684	308	316	8.0	1.10	3.12	.44			8.8	24.96	3.52
		3-5% to 10-15% lead-zinc. Gouge @ 310-316'. Broken rock @ 308-342'. Poor recovery @ 308-343.5'.	3.3	1685	316	321	5.0	2.25	7.08	1.00			11.25	35.4	5.00
		Many F2 folds, F1 subvertical.	3.5	1686	321	325	4.0	3.23	6.72	1.18			12.92	26.88	4.72
		No. 1678 -- white quartz-sericite phyllite, 15-50% sulphide, 10-15% lead-zinc													
		No. 1679 -- gray quartz-graphite phyllite, 8-10% sulphide, 6-8% lead-zinc													
		No. 1680 -- white quartz-sericite phyllite, 20-25% sulphide, 15-20% lead-zinc													
		No. 1681 -- white quartz-sericite phyllite, 25-30% sulphide, 20-25% lead-zinc													
		No. 1682 -- white quartz-sericite phyllite, 15-20% sulphide, 10% lead-zinc													
		No. 1683 -- striped graphite phyllite, 15-20% sulphide, 8% lead-zinc													

DIAMOND DRILL RECORD

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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
		No. 1684 -- striped graphite phyllite, gouge last few feet, 10% sulphide, 5-6% lead-zinc	2.3	1687	325	329	4.0	3.98	6.60	1.53			15.92	26.4	6.12
		No. 1685 -- graphite phyllite, 10% sulphide, 6-8% lead-zinc	2	1688	329	339	10.0	6.09	14.43	2.35					
		No. 1686 -- sericite-quartz phyllite, 8-10% sulphide, 6-8% lead-zinc	1.9	1689	339	343.5	4.5	3.23	8.97	1.56					
		No. 1687 -- as above, 5% lead-zinc	5.0	1690	343.5	348.5	5.0	2.38	5.34	1.03					
		No. 1688 -- striped graphite phyllite, 10% sulphide, 8% lead-zinc													
		No. 1689 -- graphite phyllite, 5-8% sulphide, 3-5% lead-zinc	5.0	1691	348.5	353.5	5.0	4.95	6.36	1.73					
		No. 1690 -- striped quartz-graphite phyllite, 10-15% sulphide, 8-10% lead-zinc	3.0	1692	353.5	356.5	3.0	2.85	5.64	1.32					
		No. 1691 -- striped quartz-graphite phyllite, 15-20% sulphide, 10-12% lead-zinc	1.4		356.5	357.9									
		No. 1692 -- striped quartz-graphite phyllite, 10-15% sulphide, 8-10% lead-zinc	6.1	1693	357.9	364.0	6.1	3.08	5.88	1.18					
		No. 1693 -- striped quartz-graphite phyllite, 10% sulphide, 6% lead-zinc													
		Core Angles: 85° @ 320', F1 subvertical, F2 folds; 85° @ 330', 82° @ 340', 85° @ 350', 69° @ 360', local F1 folds.		Wt. Av.	302.8	316.0	13.2	1.31	3.31	.55	(18.7)		17.28	43.68	7.21
				Wt. Av.	316.0	356.5	40.5	3.97	8.61	1.58	(54.2)		160.73	348.77	64.12
		Note that sulphide is concentrated in F2.		Wt. Av.	316	329	13.0	3.08	6.82	1.22 (41.8)	Weighted Average		40.09	88.66	15.84
				Wt. Av.	321.0	343.5	22.5	4.63	10.58	1.84	(63.0)		104.175	237.945	41.36
				Wt. Av.	343.5	356.6	13.0	3.48	5.80	1.37	(46.8)		45.20	75.42	17.76
363.5	395	DARK GRAY TO BLACK STRIPED QUARTZ - GRAPHITE PHYLLITE													
		With zones (1-2') of gray-cream quartz-chlorite-sericite phyllite at 363-365', 369-370' and 377-379'. Well defined F2, F1	5/10		385	395									
→ Quartz		locally subvertically folded. Quartz veins 385-395'. Note minor red sphalerite, galena @ 379 and 390'. Minor pyrite. Rock													
		broken, gouged at 385-419'. Poor recovery.													
		Core Angle: 62° @ 370', 79° @ 380', F1 subvertical, 80° @ 390'.													

DIAMOND DRILL RECORD

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395	450.5	GRADES TO GRAY QUARTZ - SERICITE PHYLLITE													
		Well laminated, well defined F2 foliation with F1 laminae sub-vertical. Minor pyrite, sphalerite @ 420-431'. Note "clasts" of black graphite phyllite @ 420-431'. Many buff-cream carbonate veins stringers. Quartz vein @ 424-425'. Rock muddy gouged @ 395-419'.	10/24		395	419									
		Core Angle: 42° @ 400', 69° @ 420', 60° @ 430', 66° @ 440', 72° @ 450'.													
450.5	457	GREEN, STRIPED CHLORITE-SERICITE PHYLLITE													
		With pale carbonate stringers. Talcy texture. Many F2 folds. F1 and F2 subvertical.													
		Core Angle: 71° @ 455'. Good recovery.													
457	480.3	GREEN FINELY LAMINATED QUARTZ - CHLORITE - SERICITE PHYLLITE													
		Finer grade than above unit. Fine (2 mm) laminae of quartz. F2 dominant. Good recovery.													
		Core Angle: 80° @ 460', 72° @ 470', 73° @ 480'.													
480.3	498.5	GREEN STRIPED CHLORITE - SERICITE - CARBONATE PHYLLITE													
		Pale green, talcy texture - soft - soapy. Good F2 foliation and folds. Good recovery.													
		Core Angle: 80° @ 490', 78° @ 500'.													

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
498.5	513	GRAY-GREEN QUARTZ - SERICITE - CHLORITE PHYLLITE													
		Finely laminated. Good F2. Minor pyrite. Locally graphitic. Buff carbonate laminae.													
		Core Angle: 65° @ 510'.													
513	539.7	GREEN QUARTZ - CHLORITE - SERICITE PHYLLITE													
		Fine laminae - F2 predominates. Thin quartz-carbonate laminae. Rock fresh competent. Minor pyrite.													
		Core Angle: 72° @ 520', 72° @ 530'.													
539.7	547	BLACK STRIPED WEAKLY MINERALIZED GRAPHITIC PHYLLITE													
		Well defined F2 folds. 3-5% sulphide. Pyrite, sphalerite, galena. Less than 1% lead-zinc.													
		Core Angle: 72 @ 540'.													
547	570	GREEN QUARTZ - CHLORITE - SERICITE PHYLLITE													
		With thin zones of black graphite phyllite (558-559', 563.5-564.5', 567-569'), F2 foliation dominant. Minor sphalerite in graphitic bands.													
		Core Angle: 72° @ 550', 75° @ 560', 60° @ 570'. Good recovery.													

DIAMOND DRILL RECORD

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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
570	623	BLACK STRIPED QUARTZ - GRAPHITIC PHYLLITE Good F2 folds, minor pyrite, Pyrrhotite @ 571'. Quartz-chlorite veins. Good recovery. Core Angle: 76° @ 575'. Blebs of pyrite, pyrrhotite in foliation and in traverse fractures. Quartz veins with chlorite. Good F2. Local F2 fold noses example 607'. Core Angle: 76° @ 575', 55° @ 580', 70° @ 600', 610' = F2@ 70°, F1 subvertical, F2 fold nose @ 620' @ 77°.													
623	690	GRAY QUARTZ - SERICITE PHYLLITE Finely lamiated good F2. Many small scale F2 folds where F1 subvertical to F2. Quartz-chlorite veins. Minor blebs of pyrite and pyrrhotite. Recovery is good. Rock competent. Core Angle: 80° @ 630', 80° @ 640', 70° @ 650', 70° @ 660', 72° @ 670'. F2 folds @ 660' @ 70°, 75° @ 680', 80° @ 690'.													
690	740	GRAY-GREEN CHLORITE - SERICITE - QUARTZ PHYLLITE Essentially same as above but with greater chlorite content. Blebs and layers of pyrrhotite and pyrite. Abundant quartz-chlorite veins. Rock competent but broken 720-723'. F2 laminae dominant. Recovery good. Core Angle: 65° @ 700', 78° @ 710', F2 folds. 72° @ 720' (rock broken,													

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
		quartz veins, 70° @ 730', F2 fold nose, 84° @ 740', small scale F2 folds.													
740	756	GRAY STRIPED QUARTZ - SERICITE PHYLLITE													
		Thin partings (1-2')of creamy quartz-sericite phyllite, 742-4, 750-751. Slip, mini fault @ 753'. F2 dominant, F1 folded subvertical to F2. Quartz filled tension gashes subvertical to F2 @ 745'.													
		Core Angle: 79° @ 740', 73° @ 750'.													
756	782	DARK GRAY-BLACK QUARTZ - GRAPHITIC PHYLLITE													
		Finely laminated. F2 dominant. Zones of pale quartz-sericite with 5% green mariposite @ 770-773'.													
		Core Angle: 65° @ 760', 85° @ 770', 70° @ 780'.													
782	803.9	ZONE OF ALTERED BUFF- GREENISH QUARTZ - SERICITE PHYLLITES AND GRAY MODERATELY GRAPHITIC PHYLLITES													
		Rocks pale with network of quartz-white carbonate veins. Also buff carbonate in foliation. Blebs and stringers of pyrrhotite, pyrite and red sphalerite. Last few feet before massive sulphide pale - bleached with pale green mariposite.	2.5/6	798	804										
		Core Angle: 65° @ 790', 85° @ 800'.													

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
803.9	835.5	SULPHIDE ZONE: Massive banded pyritic sulphides with fine-grained orange sphalerite, gray galena, minor chalcopyrite in gashes. Second sulphide zone brecciated, coarse barite breccia with pyrite, galena, sphalerite in matrix. Chalcopyrite in gashes. Altered, bleached phyllites between sulphide zones													
Detail 803.9	808.9	Massive banded pyrite sulphide. Local small-scale F2 folds in sulphides. Late fractures filled with barite, 75% sulphide, 15-20% lead-zinc No. 1694.	5.0 /8-2	1694	803.9 808.9	808.9 817.1	5.0 —	12.75	9.23	5.00					
		Core Angle: 66° @ 806'.	5.0	1695	817.1	822.1	5.0	6.68	5.16	2.29			33.4	25.8	11.45
			5.5	1696	822.1	827.6	5.5	6.08	4.20	1.97			33.44	23.1	10.84
808.9	817.1	Bleached, altered - white quartz-sericite phyllite and gray sericite phyllite. Core Angle: 67° @ 812'.	/2-6		827.6	830.2	—	(0.3)	(0.3)	(0.03)	(0.6% Zn, Est.)		0.78	0.7	0.078
			1.8	1697	830.2	832.0	1.8	4.13	10.89	1.74			7.43	19.60	3.13
817.1	827.6	Sulphide zone in c.g. white barite breccia. 50-70% sulphide.	3.5	1698	832.0	835.5	3.5	3.90	7.44	1.68			13.65	26.04	5.88
		Some banded. Generally pyrite, gray galena, rich chalcopyrite, lead greater than zinc. 15-20% lead-zinc.		Wt. Av.	817.1	835.5	18.4	4.82	5.18	1.71	(58.5)		88.70	95.24	31.38
		No. 1695 and No. 1696. Core Angle: 71° @ 818', 71° @ 825'.		" "	817.1	827.6	10.5	6.37	4.66	2.12	Weighted average (72.8)		66.84	48.90	22.29
				" "	830.2	835.5	5.3	3.98	8.61	1.70	Weighted average (58.3)		21.08	45.64	9.01
827.6	832	Pale quartz-sericite phyllite grade to mineralized graphite phyllite, No. 1697 4-6% lead-zinc. Core Angle: 47° @ 830'.													

DIAMOND DRILL RECORD

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PROPERTY

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832	835.5	Banded, barite rich pyrite sulphide. Good F2 fold nose @ 834'.													
		40-50% sulphide, 10% lead-zinc. Orange sphalerite, galena, barite.													
		Core Angle: 57° @ 833'.													
835.5	851.0	GRAY QUARTZ - SERICITE PHYLLITE													
		Pale bleached at sulphide contact for 1 foot.	1/6.5		835.5	852.0	—								
		Core Angle: 65° @ 840', 80° @ 850'.													
851.0	861.3	SULPHIDE ZONE: BARITE - PYRITE - RED SPHALERITE - GALENA													
		50-60% sulphide, 10-12% lead-zinc	6.6	1699	851.0	857.6	6.6	5.40	10.50	2.38			35.64	69.3	15.71
		Well banded alternating laminae: white barite, sphalerite, pyrite.													
		Local zones, quartz rich c.g. xtals. Grades to mineralized black graphitic phyllite last 2 feet.	3.7	1700	857.6	861.3	3.7	4.50	8.23	1.97			16.65	30.45	7.29
		Core Anlge: 65° @ 860'.													
					851	861.3	10.3	5.08	9.68	2.23	Weighted Average. (76.6)		52.29	99.75	23.00
861.3	862.3	PALE BLEACHED QUARTZ - SERICITE - CHLORITE PHYLLITE													
		Core Angle: 75° @ 862'.	1/1.0		861.3	862.3	—								

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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
862.3	869.2	SULPHIDE ZONE: Barite rich, pyrite, orange sphalerite, galena.	4.2	1701	862.3	867	4.7	4.08	7.62	2.06			19.18	35.81	9.68
		First 2 feet broken, brecciated, cemented by veins of quartz-carbonate. Last two feet well banded. 40-50% sulphide, 8-10% lead-zinc.	2.2	1702	867	869.2	2.2	5.10	8.56	2.18			11.22	18.83	4.80
				Wt. Av.	851.0	869.2	18.2	4.54	8.48	2.06	(70.6)		82.686	154.336	37.478
		Core Angle: 46° @ 865'.		" "	862.3	869.2	6.9	4.41	7.92	2.10	Weighted Average. (71.9)		30.396	54.646	14.478
869.2	941	GRAY QUARTZ - SERICITE PHYLLITE													
		Minor chlorite. Rock is more altered close to sulphide. Buff quartz-carbonate veins. Minor pyrite, pyrrhotite. Red-carbonate in foliation. Small-scale F2 folds, F2 dominant.													
		Core Angle: 75° @ 870', 74° @ 880', 84° @ 900', 20° @ 920', 67° @ 940'.													
		Quartz-chlorite veins @ 895-906', 933-935'. These also have buff carbonate.													
941	961	GRADES TO PALE GREEN-GRAY QUARTZ-CHLORITE-SERICITE PHYLLITE													
		Greater chlorite content than above, both within F2 laminae and quartz-chlorite veins . Buff feldspar crystals in quartz veins.													
		Also buff carbonate in F2 foliation. Both F2 and F1 foliation well defin ed, F1 locally subvertical to F2. Minor blebs of pyrrhotite and pyrite. Recovery good.													
		Core Angle: 75 @ 960'.													

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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
961	976	MAINLY WHITE-BUFF QUARTZ - SERICITE PHYLLITE WITH ZONES RICHER IN CHLORITE Buff carbonate stringers in foliation. Thin (1-3 mm) of pyrite and pyrrhotite. Some assoc. chalcopyrite in gashes. Good F2. Good recovery. Core Angle: 82° @ 970'.													
976	1050.5	GRADES TO GRAY QUARTZ - SERICITE PHYLLITE WITH THIN (1') ZONES OF WHITE QUARTZ - SERICITE PHYLLITE Chlorite rich areas greener. Quartz-chlorite veins with brown-yellow feldspar. Recovery excellent. Minor pyrite and pyrrhotite blebs and bands. Rock more broken. Muddy from 990' onwards. F1 laminae subvertical. Well defined F2 folds in sericite-phyllite zones. Note minor marcasite. Core Angle: 85° @ 980', 76° @ 990', 52° @ 1000', 76° @ 1020', 1040 = F2 fold, 82° @ 1050'.	18/21 0.7/10	994 → 1028 →	1015 → 1038 →										
1050.5	1141	PALE WHITE QUARTZ - SERICITE PHYLLITE. SERICITE RICH. BLEACHED Minor chlorite assoc. with quartz-chlorite veins. Buff carbonate in foliation and in transverse gashes. Layers (0.5') and laminae, blebs of pyrrhotite and pyrite. Rock becomes paler, more bleached and altered from about 1080' to end. Quart veins boudined - sulphide in necks locally. Note pyrite, pyrrhotite sphalerite @ 1112'. Green chlorite, minor biotite from 1118'.	0/6 5/6		1056 1063	1062 1069									
					Good recovery last 30-50'.										

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
		F2 dominant foliation. F2 fold @ 1112-1120'.													
		Core Angle: 87° @ 1065', 65° @ 1080', 70° @ 1090', 85° @ 1100', 74° @ 1120', 81° @ 1140'.													
	1141	END OF HOLE													
		Note: Assay estimates possibly 1-2% over.													
		REMARKS: 1. Ground badly broken and blocky from 86-259'.													
		2. Hole cemented from 1141' up -- 12 bags of cement.													