

VANGORDA GRUM
DIAMOND DRILL RECORDS
SURFACE

75 - A106 to A120
August 1975

018538

75 - A106 to A120

(Typed)

Proof (and see survey) 26

DIAMOND DRILL RECORD

LOGGED BY J. Paxton

D.D.H. No. 75-A106

PAGE 10/5

PROPERTY VANGORDA, GRUM JOINT VENTURE

LATITUDE HIW 10 741.58 N 8N OLD by Sperry Sun BEARING OF HOLE DEPTH 0' 90°

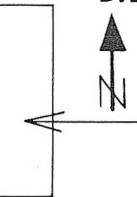
STARTED August 9, 1975

DEPARTURE 7820.74 E 68W DIP OF HOLE 200' 90°
320' 074° 84°
560' 075° 78°

COMPLETED August 16, 1976

ELEVATION 1303.61 4237' DIP TESTS

Proposed:
DEPTH Ultimate: 190.5m



CLAIM No. _____
DIRECTION AND DISTANCE FROM
NE. CLAIM POST

metres FOOTAGE		DESCRIPTION	metres		Sample Length	Assay					Assay x Feet m			
FROM	TO		Rec. Ft m	Sample No.		From	To	Pb	Zn	Ag	Au	Cu	Pb	Zn
0	39.3 (?)	TRICONE BW CASING												
39.3	46.8	QUARTZ - SERICITE PHYLLITE Gray colour. Fissile. Numerous 5-10cm masses and veins of white quartz. F2 = 60° throughout.												
46.8	49.2	SULPHIDE ZONE 46.8-47.3 -- massive pyrite, lead-zinc with inclusions of white siliceous material. Estimate Pyrite Lead-zinc	2.4/ 2.4											
		47.3-47.6 -- banded siliceous material with traces of lead-zinc 60% 15%	0.8/ 0.8	2263	46.8	47.6	0.8	7.80	8.83	3.21		6.24	7.06	2.57
		47.6-49.2 -- massive pyrite, lead-zinc with occasional 1-2cm inclusions of white siliceous material. 70% 25%	1.6/ 1.6	2264	47.6	49.2	1.6	11.94	9.11	5.32		19.10	14.58	8.51
		Faint banding at 45° locally.	Weighted Average		46.8	49.2	2.4	10.56	9.02	4.62	(1583)	25.35	21.64	11.08
49.2	50.3	BLEACHED QUARTZ - SERICITE PHYLLITE 50% consists of lenses and bands of quartz. Estimate 1% pyrite and a trace of lead-zinc.	1.1/ 1.1	2265	49.2	50.3	1.1	.07	.10	Tr				
50.3	50.5	MASSIVE SULPHIDE Estimate 20% pyrite, 25% lead-zinc.	0.2	2266	50.3	50.5	0.2	6.48	14.79	1.44				

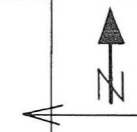
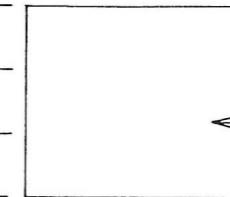
DIAMOND DRILL RECORD

LOGGED BY M. de Quadros

D.D.H. No. 75-A107

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PROPERTY _____
 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		DESCRIPTION	Rec. Ft.	Sample No.	Footage		Sample Length	Assay					Assay x Feet-m		
FROM	TO				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag
		Breaks along irregular fractures. Brecciated and recemented in several sections. Overall lead-zinc values low.	2.3	2594	71.3	73.8	2.5	0.40	1.20	0.38			4.00	P2	
		71.3-73.8 -- partly brecciated. 20% pyrite, 3-4% lead-zinc	2.3	2595		76.2	2.4	0.65	0.90	0.29			3.72	"	
		-76.2 -- competent. 30% pyrite, 8-10% lead-zinc													
		-79.2 -- competent. 40% pyrite, 6-8% lead-zinc	3.0	2596		79.2	3.0	0.95	0.93	0.44			5.64	"	
		-82.0 -- competent. 30% pyrite, 2-4% lead-zinc													
		-84.7 -- broken. 25% pyrite, 1-2% lead-zinc	2.7	2597		82.0	2.8	0.14	0.35	0.15			1.37	"	
		-87.5 -- broken. 20% pyrite, 5-6% lead-zinc													
		-90.5 -- broken; brecciated. 20-25% pyrite, 1-2% lead-zinc	2.7	2598		84.7	2.7	0.23	0.31	0.29			1.46	"	
		-93.5 -- brecciated. 30% pyrite, 2-4% lead-zinc													
		-96.6 -- broken. F2 60°. 20% pyrite, 1% lead-zinc.	2.7	2599		87.5	2.8	0.29	0.84	0.26			3.16	"	
		-99.1 -- broken; 10% pyrite, 0.5% lead-zinc													
		-102.4 -- broken; 10% pyrite, 0.5% lead-zinc	3.0	2600		90.5	3.0	0.12	0.42	0.24			1.62	"	
		-105.2 -- broken; 10% pyrite, 0.5% lead-zinc													
		-108.2 -- broken; 10% pyrite, 0.5% lead-zinc	3.0	2439		93.5	3.0	0.58	0.86	0.44			4.32	"	
		-110.6 -- broken; 10% pyrite, 0.5% lead-zinc													
		-112.2 -- broken; 10% pyrite, 0.5% lead-zinc	3.0	2440		96.6	3.1	0.13	0.31	0.24			1.36	"	
		-114.9 -- broken; 10% pyrite, 0.5% lead-zinc with sericite. F2 90°.	2.0	2441		99.1	2.5	0.04	0.42	0.21			1.15	"	
		NOTE: In spite of heavy core loss in last section, no sign of gouge and/or faulting. Heavy core loss attributed to hardness and brittleness ("blocky") of the core.	2.0	2442		102.4	3.	0.12	0.65	0.29			2.54	"	
			2.1	2443		105.2	2.8	0.13	0.40	0.29			1.23	"	
			1.4	2444		108.2	3.0	0.07	0.15	0.18					
			1.3	2445		110.6	2.4	0.05	0.12	0.15					
			1.1	2446		112.2	1.6	0.04	0.04	0.12					
			2.5	2447		114.9	2.7	0.28	0.25	0.18			4.29	"	

Pool road (ex. assays) JL

DIAMOND DRILL RECORD

LOGGED BY M. de Quadros

D.D.H. No. 75-A108 PAGE 1 of 5

PROPERTY VANGORDA, GRUM JOINT VENTURE

LATITUDE 10 272.31 N ^{HIW} 4S ^{OLD} BEARING OF HOLE 0' ^{depth bearing dip} 90°

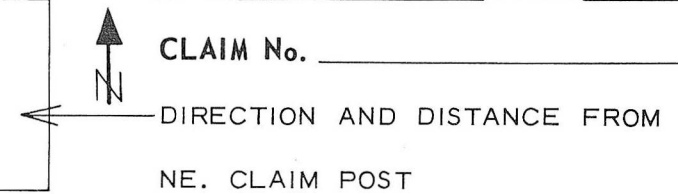
STARTED August 17, 1975

DEPARTURE 7787.35 E ^{58W} DIP OF HOLE 400' ^{200'} 050° ^{039°} 86° ^{89°}

COMPLETED August 23, 1975

ELEVATION 1270.02 DIP TESTS 560' ^{400'} 047.5° ^{86°}

Proposed:
DEPTH Ultimate:189.6m (622')



metres FOOTAGE		DESCRIPTION	Rec. Ftm	Sample No.	metres Footage		Sample Length	Assay					Assay x Feet				
FROM	TO				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag		
0	24.8	OVERBURDEN -- triconed															
24.8	55.6	FAULT ZONE															
		24.5-33.0 -- quartz-sericite phyllite. F2 50 . Very broken.	14.0/		24.8	53.0											
		-33.4 -- quartz-graphite phyllite; gougy	28.2														
		-34.1 -- vein quartz	2.2/			55.6											
		-41.4 -- quartz-graphite phyllite; broken and gougy	2.6														
		-50.9 -- quartz-sericite-talc-phyllite; minor fuschite at 44.0-44.5; gougy and broken															
		-55.6 -- quartz-graphite phyllite. Very broken and gougy															
55.6	69.6	QUARTZ - GRAPHITE ± SERICITE PHYLLITE Black															
		Very fine-grained, often carbonaceous rather than graphitic.	13.8/		55.6	69.6											
		Very fissile and well foliated but cores well and appears competent. F1 seldom seen in less graphitic sections. F2 well developed and uniform at 80 to C.A. Minor pyrite in blebs and streaks.	14.0														
		69.0-69.6 -- broken and rubbly															
69.6	107.1	MIXED SULPHIDE ROCKS															
		Alternating massive sulphides and mineralized rocks.															
		69.6-70.7 -- mixed massive sulphides and quartz-sericite phyllite	1.1	2321	69.6	70.7	1.1	1.13	.69	.59							
		30-40% pyrite, 3-4% lead-zinc.															
		-74.0 -- quartz-sericite phyllite with minor massive sulphides. 20% pyrite, 2-3% lead-zinc	3.2	2322		74.0	3.3	4.28	3.06	1.97	(D-1)		12.124	10.098	4.851		

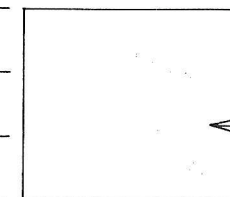
D-1

DIAMOND DRILL RECORD

LOGGED BY M. de Quadros

D.D.H. No. 75-A108 PAGE 2 of 5

PROPERTY _____
 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



metres FOOTAGE		DESCRIPTION	Rec. From	Sample No.	metres Footage		Sample Length	Assay					Assay x Feet		
FROM	TO				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag
	74.0-75.3	massive sulphide; vuggy. F2 70-80 . Magnetite at 74.9-75.1. 60% pyrite, 12-14% (?) lead-zinc	1.3	2323		75.3	1.3	4.13	4.10	1.44			5.369	5.330	1.872
	-76.8	as above	1.5	2324		76.8	1.5	4.73	5.00	1.44			7.095	7.50	2.16
	-78.3	as above													
	-79.9	as above	1.5	2325		78.3	1.5	6.79	5.80	2.30			10.185	8.70	3.45
	-80.8	quartz-sulphide breccia, grading down to massive sulphide. low lead-zinc -- 1% (?)	1.5	2326		79.9	1.6	3.90	3.80	1.76			6.24	6.08	2.816
	-82.9	quartz-sericite ± graphite phyllite. F2 70-80 . 15-20% pyrite, 1% lead-zinc. Silicified.	0.9	2327		80.8	0.9								
	-82.9	quartz-sericite ± graphite phyllite. F2 70-80 . 15-20% pyrite, 1% lead-zinc. Silicified.	2.1	2328		82.9	2.1	0.19	0.20	0.29			0.82	PbZn	
	-84.4	as above	1.5	2329	82.9	84.4	1.5	0.18	0.54	0.29			1.08	"	
	-85.9	as above	1.5	2330		85.9	1.5	0.20	0.38	0.21			0.87	"	
	-87.5	alternating bands of buff quartz-sericite phyllite (barren) and vuggy, massive sulphide.	1.6	2331		87.5	1.6	5.98	5.16	2.60			9.568	8.256	4.16
	-89.0	40% pyrite, 8% lead-zinc massive sulphide; vuggy; 60% pyrite, 16-18% lead-zinc	1.5	2332		89.0	1.5	4.73	7.60	2.00			7.095	11.400	3.00
	-92.3	quartz-sulphide with minor barren quartz-sericite phyllite. 15-20% pyrite, 6-8% lead-zinc	3.1	2333		92.3	3.3	1.43	2.64	0.62					
	-93.0	massive sulphide. 60% pyrite, 18% lead-zinc	0.7	2334		93.0	0.7	6.54	11.41	2.74			4.578	7.987	1.918
	-95.1	breccia: mixed sericite, chloritic, and bleached phyllite with fragments of high grade ore. 10-15% pyrite, 3-4% lead-zinc.	2.0	2335		95.1	2.1	1.75	3.18	0.74			3.675	6.678	1.554
	-96.6	quartz-sericite phyllite, bleached; with fuschite and sulphides. 10-15% pyrite, 1% lead-zinc.	1.5	2336		96.6	1.5	0.20	0.60	0.24			1.2	PZ	
	-99.7	as above but silicified. 10-15% sulphide, 1% lead-zinc	3.1	2337		99.7	3.1	0.17	0.60	0.12			2.4	"	
	-101.9	quartz-sericite-sulphide phyllite; bleached. 20% pyrite, 6-8% lead-zinc. Silicified and hard.	2.2	2338		101.9	2.2	0.12	0.59	0.18			1.6	"	
	-104.8	as above. Lead-zinc 4-6%.	2.9	2339		104.8	2.9	1.63	3.06	0.77		0.7x	1.141	2.142	0.539

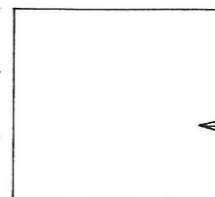
DIAMOND DRILL RECORD

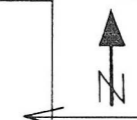
LOGGED BY M. de Quadros

D.D.H. No. 75-A108

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PROPERTY _____
 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

metres FOOTAGE		DESCRIPTION	Rec. Ft./M	Sample No.	metres Footage		Sample Length	Assay					Assay x Feet M.		
FROM	TO				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag
		104.8-107.1 -- massive sulphide; 50% pyrite, 12-14% lead-zinc. Partly vuggy. F2 60-70°.	2.3	2340	104.8	107.1	2.3	5.18	5.88	2.41			13.294	13.524	5.543
				<i>w. Av.</i>	<i>79.9</i>	<i>85.9</i>	<i>6.0</i>	<i>0.6</i>	<i>Pb Zn</i>				<i>3.41</i>	<i>PZ</i>	
					<i>85.9</i>	<i>89.0</i>	<i>3.1</i>	<i>5.38</i>	<i>6.34</i>	<i>2.31</i>	<i>(19.2)</i>		<i>16.663</i>	<i>19.656</i>	<i>7.16</i>
					<i>92.3</i>	<i>95.1</i>	<i>2.8</i>	<i>2.95</i>	<i>5.24</i>	<i>1.24</i>	<i>(42.5)</i>		<i>8.253</i>	<i>14.665</i>	<i>3.472</i>
107.1	108.8	QUARTZ - SERICITE PHYLLITE Light gray Broken with vuggy quartz veins; rather messy looking. F2 80°.	1.7/ 1.7		107.1	108.8		<i>0.8</i>	<i>PZ</i>				<i>14.435</i>	<i>15.666</i>	<i>6.082</i>
								<i>4.81</i>	<i>5.22</i>	<i>2.03</i>	<i>(69.5)</i>				
108.8	129.4	CALCITE - CHLORITE AND CALCITE - SERICITE PHYLLITE Light gray Alternating bands; minor colour variation from light greenish gray to light gray. Foliation poor in chloritic units. Well developed in sericitic units; consistently 80-90°. Minor folds Grades at top and at base into quartz-sericite phyllite.	20.6/ 20.6		108.8	129.4									
129.4	136.2	BLEACHED QUARTZ - SERICITE PHYLLITE Pale gray Very altered and silicified; hard and brittle. Core tends to be very broken. Mineralized in the F2 foliation. F2 70-80°. 10% pyrite, 6-8% pyrrhotite, trace of lead-zinc.	6.2/ 6.8		129.4	136.2		<i>Trace</i>	<i>Pb Zn</i>	<i>Est.</i>					
136.2	151.3	MIXED MASSIVE SULPHIDES AND QUARTZ SULPHIDES Interbanded sulphides and phyllites, relatively low grade overall Magnetite up to 10% locally.													
		136.2-138.6 -- mixed massive sulphide bands and quartz-sericite sulphide phyllite. 30% pyrite, 3-4% lead-zinc.	2.3	2341	136.2	138.6	2.4	1.00	1.26	0.59					

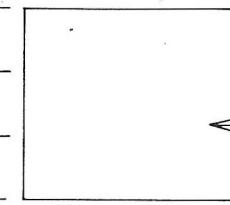
DIAMOND DRILL RECORD

LOGGED BY M. de Quadros

D.D.H. No. 75-A108

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PROPERTY _____
 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		DESCRIPTION	Rec. Ft. m	Sample No.	metres Footage		Sample Length	Assay					Assay x Feet m		
FROM	TO				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag
		138.6-139.3 -- massive sulphide; vuggy. 60% pyrite, 8-10% lead-zinc.	0.7	2342		139.3	0.7	5.38	7.25	2.31			3.766	5.075	1.617
		-140.3 -- quartz-barite (?) sulphide. 40% pyrite, 2-3% lead-zinc.	1.0	2343		140.3	1.0	0.18	0.33	0.21			0.18	0.33	0.21
		-140.7 -- massive sulphide. 60% pyrite, 10% lead-zinc	0.4	2344		140.7	0.4	3.90	5.52	2.12			1.560	2.208	0.848
		-143.9 -- quartz-sulphide. F2 80°. 30% pyrite, 2-3% lead-zinc. Magnetite.	3.2	2345		143.9	3.2	2.15	1.76	0.94					
		-146.1 -- quartz-sulphide. F2 80°. 30% pyrite, 4-6% lead-zinc.	2.2	2346		146.1	2.2	1.83	1.30	0.80					
		-148.4 -- folded quartz-sericite phyllite with minor sulphide lenses. 15% pyrite, 2-3% lead-zinc. F2 80°.	2.3	2347		148.4	2.3	0.68	0.98	0.35					
		-151.3 -- quartz-sulphide with minor barren sericite phyllite. 30% pyrite, 2-3% lead-zinc, 2-3% pyrrhotite.	2.9	2348		151.3	2.9	1.53	1.46	0.68					
		-153.0 -- quartz sulphide. 30% pyrite, 10% lead-zinc, 4-5% pyrrhotite.	1.7	2349		153.0	1.7	3.00	3.00	1.09			5.100	5.100	1.853
153.0	166.2	MINERALIZED QUARTZ - SERICITE ± GRAPHITE PHYLLITES Banded, low grade with minor massive sulphides. Very much pyrrhotite throughout. Silicified, hard and brittle.													
		153.0-156.1 -- F2 80°. 30% pyrite, 10% pyrrhotite, 2-4% lead-zinc	3.1	2350		156.1	3.1	2.00	2.46	0.77			6.200	7.626	2.387
		-159.1 -- same													
		-162.2 -- same	3.0	2351		159.1	3.0	1.13	0.88	0.47					
		-163.8 -- same but somewhat bleached													
		-164.8 -- banded quartz-graphite-sericite phyllite. F2 80°	3.1	2352		162.2	3.1	0.12	0.12	0.15					
		10% pyrite, 1-2% lead-zinc, trace of chalcopyrite													
		-166.2 -- brecciated and recemented massive sulphide. 40% pyrite, 10% pyrrhotite, 5% magnetite, 1-2% lead-zinc. Trace of chalcopyrite.	1.6	2353		163.8	1.6	0.09	0.06	0.12					
			1.0	2354		164.8	1.0	0.08	0.02	0.06					

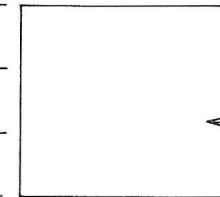
W. Av. 138.6 141.7 3.1 2.47 3.02 1.17 (40.0) 7.9
 141.7 146.1 4.4 3.5 Pb Zn.

DIAMOND DRILL RECORD

LOGGED BY J. Paxton

D.D.H. No. 75-A109 PAGE 2 of 4

PROPERTY _____
 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		DESCRIPTION	Estimate Pyrite Lead-zinc	Rec. Ft.	Sample No.	Footage		Sample Length	Assay					Assay x Feet				
FROM	TO					From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag		
114.3	121.0	BLEACHED SERICITE PHYLLITE F2 cutting F1 at high angles = 60°. Fault gouge @ 114.6-114.8, 118.8-119.5.		6.7/ 6.7														
121.0	129.1	QUARTZ - SERICITE - TALC PHYLLITE F2 = 60° @ 123, 70° @ 125, 50° @ 128. Dark gray colour.		8.0/ 8.1														
129.1	149.0	SULPHIDE ZONE																
		129.1-135.7 -- QUARTZ SERICITE phyllite with laminae and bands (up to 10cm) of lead- zinc mineralization which may contain fine barite.	10% 5%	1.8	2279	129.1	131.1	2.0	2.85	3.84	1.32			5.70	7.68	2.64		
		F2 = 60° @ 130, 70° @ 134, crest @ 135.	10% 3%	1.6	2282		135.7	1.7	2.93	4.14	1.35							
		-149.0 -- MASSIVE SULPHIDE Faintly banded pyrite, lead-zinc with scattered inclusions of country rock. Also 10-20% is fine-grained soft white mineral which is probably barite.	25% 8%	2.0	2283		137.0	1.3	6.90	10.98	2.71			8.97	14.27	3.52		
			30% 20%	2.0	2284		139.0	2.0	7.05	10.80	3.06			14.10	21.60	6.12		
			50% 25%	2.0	2285		141.0	2.0	5.33	8.10	2.41			10.06	16.20	4.82		
			50% 15%	2.0	2286		143.0	2.0	5.03	6.84	2.24			10.06	13.68	4.48		
			80% 10%	1.9	2287		145.0	2.0	3.23	4.80	1.68			6.46	9.60	3.36		
			70% 20%	1.5	2288		147.0	2.0	5.55	7.24	2.35			11.10	14.48	4.70		

129.1 - 149.0'

Oct 24/75

Sample No 2279 - 2289

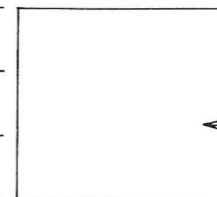
Assay results not typed yet

DIAMOND DRILL RECORD

LOGGED BY J. Paxton

D.D.H. No. 75-A110 PAGE 3 of 4

PROPERTY _____
 LATITUDE _____ BEARING OF HOLE _____ STARTED _____
 DEPARTURE _____ DIP OF HOLE _____ COMPLETED _____
 ELEVATION _____ DIP TESTS _____ DEPTH Ultimate: _____



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 DIRECTION AND DISTANCE FROM
 NE. CLAIM POST



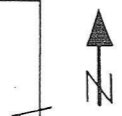
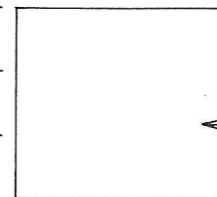
FOOTAGE		DESCRIPTION	Rec. Ft.	Sample No.	Footage		Sample Length	Assay					Assay x Feet				
FROM	TO				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag		
163.1	166.7	MIXED SECTION <i>sbc g.</i> Short sections of bleached chloritic phyllite and graphite phyllite plus a siliceous section 165.0-165.5 containing 1-2% lead-zinc. F2 = 80°.	3.0/ 3.6														
166.7	170.9	SULPHIDE SECTION <i>Pyrite Lead-zinc</i> 166.7-167.6 -- laminated quartz-graphite sulphides <i>P 10% 6%</i>	0.9	2465	166.7	167.6	0.9	1.58	2.00	0.77			3.22	Pb-Zn			
		167.6-168.8 -- massive sulphide with streaks of lead-zinc at 80° <i>M 80% 3%</i>	1.2	2466		168.8	1.2	2.03	1.90	0.80			4.72	Pb-Zn			
		168.8-170.9 -- breccia of 2-4cm siliceous fragments in a pyrite groundmass. <i>P 70% 1%</i>	2.1	2467		170.9	2.1	1.00	1.20	0.50			4.62	Pb-Zn			
170.9	175.0	QUARTZ - GRAPHITE PHYLLITE <i>g</i> F2 80°.	4.5/ 4.9														
175.0	176.2	MASSIVE PYRITE <i>M</i> <i>90% 1%</i>	1.2	2468	175.0	176.2	1.2	0.12	0.09	0.15							

DIAMOND DRILL RECORD

LOGGED BY J. Paxton

D.D.H. No. 75-A111 PAGE 4 of 8

PROPERTY _____
 LATITUDE _____ BEARING OF HOLE _____ STARTED _____
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DIRECTION AND DISTANCE FROM

NE. CLAIM POST

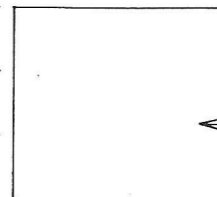
FOOTAGE		DESCRIPTION	Estimate	Pyrite	Lead-zinc	Rec. Ft.	Sample No.	Footage		Sample Length	Assay					Assay x Feet			
FROM	TO							From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag	
234.2	236.8	SULPHIDE ZONE																	
		234.5-235.5 -- breccia of phyllite in groundmass of fine brown sphalerite		60%	20%	1.0	2159	234.5	235.5	1.0	6.69	15.37	3.18			6.69	15.37	3.18	
		235.5-236.8 -- faintly banded pyrite and sphalerite 0 - 80°. Last 5cm almost massive barite.		70%	18%	1.3	2160		236.8	1.3	5.75	17.82	2.79			7.48	23.17	3.63	
							<i>W. Av.</i>	234.5	236.8	2.3	6.16	16.76	2.96	(101.5)		14.17	38.54	6.81	
236.8	237.2	FAULT GOUGE Black and graphitic mud				0.4/ 0.4													
237.2	237.9	QUARTZ - GRAPHITE PHYLLITE Interbanded with pyrite chalcopyrite and trace of lead-zinc				0.7/ 0.7													
237.9	293.4	SULPHIDE ZONE																	
		237.9-239.9 -- breccia of siliceous fragments in a pyrite-pyrrhotite groundmass.		50%	10%	2.0	2161	237.9	239.9	2.0	3.98	8.01	2.35			7.96	16.02	4.70	
		239.9-246.2 -- silicified phyllite cut by F2 @ 80°. Sulphide mineralization follows both F1 and F2.		40%	4%	2.1	2162		242.0	2.1	1.44	2.46	1.00			3.024	5.166	2.10	
		246.2-246.7 -- bleached quartz-chlorite phyllite		40%	2%	2.0	2163		244.0	2.0	1.60	2.22	0.83			3.200	4.44	1.66	
		246.7-247.5 -- quartz-sulphide type		40%	6%	2.0	2164		246.0	2.0	1.08	1.76	0.59			2.16	3.52	1.18	
				20%	2%	2.0	2165		248.0	2.0	0.62	0.94	0.35			3.12	P62N		

DIAMOND DRILL RECORD

LOGGED BY J. Paxton

D.D.H. No. 75-A111 PAGE 5 of 8

PROPERTY _____
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 NE. CLAIM POST



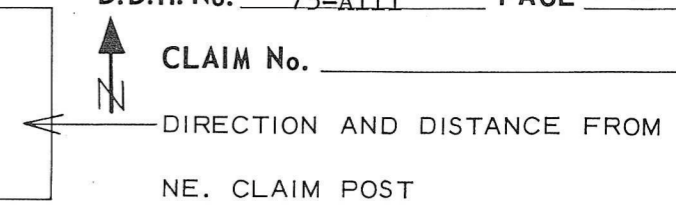
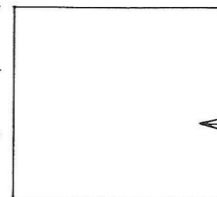
FOOTAGE		DESCRIPTION			Rec. Ft.	Sample No.	Footage		Sample Length	Assay					Assay x Feet		
FROM	TO						From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag
		247.5-249.7 -- quartz-chlorite phyllite	15%	2%	2.0	2166	248.0	250.0	2.0	0.48	0.74	0.24			2.44	96.2	
		Prominent F1 laminae 5-10mm															
		249.7-251.4 -- folded and partially brecciated, silicified phyllite cut by sulphide bands following F2 @ 80°.	20%	6%	1.2	2167		251.4	1.4	2.03	4.02	1.03					
			10%	Tr.	0.6/0.6			252.0									
		251.4-252.0 -- quartz-chlorite phyllite	20%	4%	2.0	2168		254.0	2.0	2.20	3.72	0.97			4.40	7.44	1.94
		252.0-258.4 -- similar to 249.7-251.4 F2 = 60° F1 = 0 - 60°.	30%	6%	2.0	2169		256.0	2.0	2.28	3.60	1.06			4.56	7.20	2.12
		258.4-259.0 -- quartz-chlorite phyllite															
		259.0-269.0 -- complexly folded siliceous F1 laminae cut by F2.	20%	4%	2.5	2170		258.5	2.5	2.55	4.14	1.03			6.38	10.35	2.58
			10%	Tr.	0.5			259.0									
		F2 = 45° @ 260, 45° @ 264, crest @ 266, 60° @ 267, 90° @ 268.	20%	2%	10.0			269.0									
			30%	3%	2.6			271.6									
					0.3/0.3			271.9									
		269.0-271.6 -- quartz sulphide type	2%	Tr.	0.3			271.9									
		271.6-271.9 -- bleached sericite															
		271.9-276.2 -- quartz sulphide type	25%	2%	2.0	2171		273.9	2.0	0.80	1.46	0.56			4.52	76.2	
FAULT		276.2-277.8 -- fault gouge 1st wall @ 30°, 2nd wall @ 60°.	10%	4%	1.5	2172		275.4	1.5	0.85	1.14	0.26			2.99	—	
		277.8-282.1 -- quartz sulphide type F2 = 60°.	10%	2%	0.8	2173		276.2	0.8	1.03	1.72	0.35			2.2	—	
		282.1-283.0 -- graphitic phyllite			1.0/1.6			277.8									
		Numerous 1-3mm quartz-pyrite bands. F2 = 60°.	20%	6%	2.0	2174		279.8	2.0	1.00	1.10	0.44			4.20	—	
		283.0-285.3 -- quartz-sericite-chlorite phyllite Coarse mottled type. F2 = 60°.	10%	2%	1.2	2175		281.0	1.2	0.78	0.96	0.41			2.09	—	
			2%	1%	1.1	2176		282.1	1.1	0.88	1.12	0.38			2.2	—	

DIAMOND DRILL RECORD

LOGGED BY J. Paxton

D.D.H. No. 75-A111 PAGE 7 of 8

PROPERTY _____
 LATITUDE _____ BEARING OF HOLE _____ STARTED _____
 DEPARTURE _____ DIP OF HOLE _____ COMPLETED _____
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FOOTAGE		DESCRIPTION	Pyrite	Lead-zinc	Rec. Ft.	Sample No.	Footage		Sample Length	Assay					Assay x Feet		
FROM	TO						From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag
		303.25-315.3 -- massive sulphides and barite	70%	20%	2.0	2182	303.0	305.0	2.0	7.05	11.84	4.29			14.10	23.68	8.58
		Faint irregular 2-5mm banding at 50°. Occasional irregular fractures filled with coarse sphalerite and barite.	65%	25%	2.0	2183		307.0	2.0	8.10	14.17	3.71			16.20	28.34	7.42
			65%	30%	2.0	2184		309.0	2.0	11.25	18.02	5.44			22.50	36.04	10.88
			70%	20%	2.0	2185		312.0	3.0	5.85	9.67	2.79			17.55	29.01	8.37
			70%	20%	2.0	2186		314.0	2.0	6.90	10.53	3.18			13.80	21.06	6.36
			75%	25%	1.3	2187		315.3	1.3	12.33	19.11	5.74			16.03	24.84	7.46
315.3	362.0	CHLORITE - CALCITE - BIOTITE PHYLLITE Grey-green colour. Streaks of biotite. F2 variable 60-90°.				W. Av.	303.0	315.3	12.3	8.14	13.25	3.99	(136.8)		100.18	162.97	49.07
		315.3-215.8 -- gouge			45.0/				46.7								
		316.2-317.0 -- gouge. Walls at 35°															
		Past 325.0 -- F2 regular at 80°															
		345.4-346 -- irregular quartz vein with 2-3cm masses of pyrite and arsenopyrite															
362.0	369.3	CHLORITE - SERICITE PHYLLITE Grey-green colour. No calcite. F2 = 90° @ 368.															
			70%	20%	1.5	2188	369.3	370.8	1.5	5.85	8.94	2.59			8.775	13.41	3.885
			30%	8%	1.4	2189		372.2	1.4	2.93	3.18	0.91			4.102	4.452	1.274
			30%	4%	1.8	2190		374.0	1.8	1.48	2.40	0.83			2.664	4.32	1.49
						W. Av.	369.3	372.2	2.9	4.44	6.16	1.77	(60.6)	✓	12.877	17.862	5.129

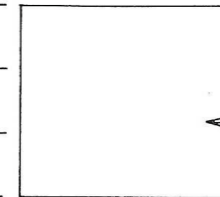
369 374 4.7 3.31 4.72 1.40 (-48)

DIAMOND DRILL RECORD

LOGGED BY J. Paxton

D.D.H. No. 75-A111 PAGE 4 of 8

PROPERTY _____
 LATITUDE _____ BEARING OF HOLE _____ STARTED _____
 DEPARTURE _____ DIP OF HOLE _____ COMPLETED _____
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 NE. CLAIM POST



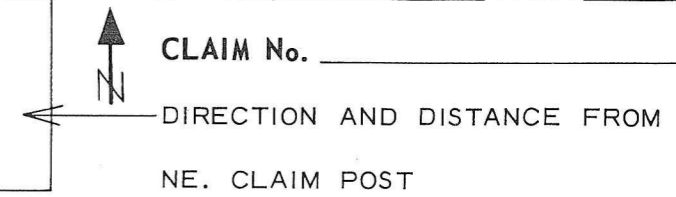
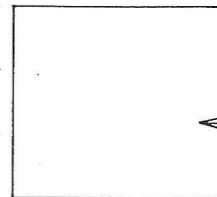
FOOTAGE		DESCRIPTION	Estimate		Rec. Ft.	Sample No.	Footage		Sample Length	Assay					Assay x Feet			
FROM	TO		Pyrite	Lead-zinc			From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag	
234.2	236.8	SULPHIDE ZONE																
		234.5-235.5 -- breccia of phyllite in groundmass of fine brown sphalerite	60%	20%	1.0	2159	234.5	235.5	1.0	6.69	15.37	3.18				6.69	15.37	3.18
		235.5-236.8 -- faintly banded pyrite and sphalerite 0 - 80°. Last 5cm almost massive barite.	70%	18%	1.3	2160		236.8	1.3	5.75	17.82	2.79				7.48	23.17	3.63
						W. Av.	234.5	236.8	2.3	6.16	16.76	2.96	(101.5)			14.17	38.54	6.81
236.8	237.2	FAULT GOUGE Black and graphitic mud			0.4/ 0.4													
237.2	237.9	QUARTZ - GRAPHITE PHYLLITE Interbanded with pyrite chalcopyrite and trace of lead-zinc			0.7/ 0.7													
237.9	293.4	SULPHIDE ZONE																
		237.9-239.9 -- breccia of siliceous fragments in a pyrite-pyrrhotite groundmass.	50%	10%	2.0	2161	237.9	239.9	2.0	3.98	8.01	2.35				7.96	16.02	4.70
		239.9-246.2 -- silicified phyllite cut by F2 @ 80°. Sulphide mineralization follows both F1 and F2.	40%	4%	2.1	2162		242.0	2.1	1.44	2.46	1.00				3.024	5.166	2.10
		246.2-246.7 -- bleached quartz-chlorite phyllite	40%	2%	2.0	2163		244.0	2.0	1.60	2.22	0.83				3.200	4.44	1.66
		246.7-247.5 -- quartz-sulphide type	40%	6%	2.0	2164		246.0	2.0	1.08	1.76	0.59				2.16	3.52	1.18
			20%	2%	2.0	2165		248.0	2.0	0.62	0.94	0.35				3.12	P62N	

DIAMOND DRILL RECORD

LOGGED BY J. Paxton

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PROPERTY _____
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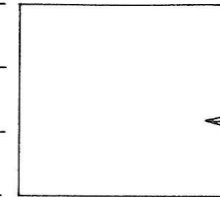
FOOTAGE		DESCRIPTION			Rec. Ft.	Sample No.	Footage		Sample Length	Assay					Assay x Feet		
FROM	TO						From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag
		247.5-249.7 -- quartz-chlorite phyllite	15%	2%	2.0	2166	248.0	250.0	2.0	0.48	0.74	0.24			2.44	96.22	
		Prominent F1 laminae 5-10mm															
		249.7-251.4 -- folded and partially brecciated, silicified phyllite cut by sulphide bands following F2 @ 80°.	20%	6%	1.2	2167		251.4	1.4	2.03	4.02	1.03					
			10%	Tr.	0.6/0.6			252.0									
		251.4-252.0 -- quartz-chlorite phyllite	20%	4%	2.0	2168		254.0	2.0	2.20	3.72	0.97			4.40	7.44	1.94
		252.0-258.4 -- similar to 249.7-251.4 F2 = 60° F1 = 0 - 60°.	30%	6%	2.0	2169		256.0	2.0	2.28	3.60	1.06			4.56	7.20	2.12
		258.4-259.0 -- quartz-chlorite phyllite															
		259.0-269.0 -- complexly folded siliceous F1 laminae cut by F2.	20%	4%	2.5	2170		258.5	2.5	2.55	4.14	1.03			6.38	10.35	2.58
			10%	Tr.	0.5			259.0									
		F2 = 45° @ 260, 45° @ 264, crest @ 266, 60° @ 267, 90° @ 268.	20%	2%	10.0			269.0									
			30%	3%	2.6			271.6									
					0.3/0.3												
		269.0-271.6 -- quartz sulphide type	2%	Tr.	0.3			271.9									
		271.6-271.9 -- bleached sericite															
		271.9-276.2 -- quartz sulphide type	25%	2%	2.0	2171		273.9	2.0	0.80	1.46	0.56			4.52	76.22	
FAULT		276.2-277.8 -- fault gouge 1st wall @ 30°, 2nd wall @ 60°.	10%	4%	1.5	2172		275.4	1.5	0.85	1.14	0.26			2.99	—	
			10%	2%	0.8	2173		276.2	0.8	1.03	1.72	0.35			2.2	—	
		277.8-282.1 -- quartz sulphide type F2 = 60°.	--	--	1.0/1.6			277.8									
		282.1-283.0 -- graphitic phyllite Numerous 1-3mm quartz-pyrite bands. F2 = 60°.	20%	6%	2.0	2174		279.8	2.0	1.00	1.10	0.44			4.20	—	
		283.0-285.3 -- quartz-sericite-chlorite phyllite Coarse mottled type. F2 = 60°.	10%	2%	1.2	2175		281.0	1.2	0.78	0.96	0.41			2.09	—	
			2%	1%	1.1	2176		282.1	1.1	0.88	1.12	0.38			2.2	—	

DIAMOND DRILL RECORD

LOGGED BY J. Paxton

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 NE. CLAIM POST

FOOTAGE		DESCRIPTION	Pyrite	Lead-zinc	Rec. Ft.	Sample No.	Footage		Sample Length	Assay					Assay x Feet		
FROM	TO						From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag
		303.25-315.3 -- massive sulphides and barite	70%	20%	2.0	2182	303.0	305.0	2.0	7.05	11.84	4.29			14.10	23.68	8.58
		Faint irregular 2-5mm banding at 50°. Occasional irregular fractures filled with coarse sphalerite and barite.	65%	25%	2.0	2183		307.0	2.0	8.10	14.17	3.71			16.20	28.34	7.42
			65%	30%	2.0	2184		309.0	2.0	11.25	18.02	5.44			22.30	36.04	10.88
			70%	20%	2.0	2185		312.0	3.0	5.85	9.67	2.79			17.55	29.01	8.37
			70%	20%	2.0	2186		314.0	2.0	6.90	10.53	3.18			13.80	21.06	6.36
			75%	25%	1.3	2187		315.3	1.3	12.33	19.11	5.74			16.03	24.84	7.46
315.3	362.0	CHLORITE - CALCITE - BIOTITE PHYLLITE Grey-green colour. Streaks of biotite. F2 variable 60-90°.				W. Av.	303.0	315.3	12.3	8.14	13.25	3.99	(136.5)		100.18	162.97	49.07
		315.3-215.8 -- gouge			45.0/ 46.7												
		316.2-317.0 -- gouge. Walls at 35°															
		Past 325.0 -- F2 regular at 80°															
		345.4-346 -- irregular quartz vein with 2-3cm masses of pyrite and arsenopyrite															
362.0	369.3	CHLORITE - SERICITE PHYLLITE Grey-green colour. No calcite. F2 = 90° @ 368.															
			70%	20%	1.5	2188	369.3	370.8	1.5	5.85	8.94	2.59			8.775	13.41	3.885
			30%	8%	1.4	2189		372.2	1.4	2.93	3.18	0.91			4.102	4.452	1.274
			30%	4%	1.8	2190		374.0	1.8	1.48	2.40	0.83			2.664	4.32	1.49
						W. Av.	369.3	372.2	2.9	4.44	6.16	1.77	(60.6)	✓	12.877	17.862	5.129

369 374 4.7 3.31 4.72 1.40 (48)

DIAMOND DRILL RECORD

LOGGED BY M de Quadros

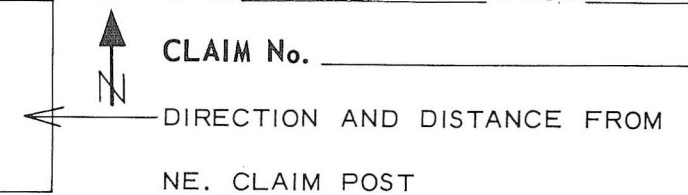
D.D.H. No. 75-A112 PAGE 1 of 3

PROPERTY VANGORDA, GRUM JOINT VENTURE

LATITUDE HIW 34975.82N OLD 8N BEARING OF HOLE 0' 90° STARTED August 23, 1975

DEPARTURE 25961.18E 64W DIP OF HOLE 280' 322° 88° 420' 069° 87° 540' 347° 80° COMPLETED August 28, 1975

ELEVATION 4257.91' DIP TESTS _____ DEPTH Proposed: Ultimate: 172.5M



metres		DESCRIPTION	metres				Assay					metres				
FOOTAGE	FOOTAGE		Rec. #	Sample No.	Footage From	Footage To	Sample Length	Pb	Zn	Ag	Au	Cu	Assay x Foot	Pb	Zn	Ag
FROM	TO		ft.	M												
0	75.7	OVERBURDEN - TRICONED: CASSED WITH BW														
75.7	86.3	ALT. QUARTZ - SERICITE AND BLEACHED QUARTZ - SERICITE PHYLLITES Light grey - off-white. Hard, silicified and partly altered and bleached. Well foliated but not fissile. Competent. Minor pyrite in blebs. F2 45° to C.A., gradually changing to 60 at 86.3.	10.3/10.6		75.7	86.3						4257.91 75.7 4180.21			1274.74	
86.3	110.4	BLEACHED QUARTZ - SERICITE PHYLLITE Off-white Gradational from above, becoming more broken and less silicified down, ending in rubbly broken chips from 105.3 to 110.4. Quite incompetent. F2 visible but varies erratically up to 30° to CA Changes abruptly to unit below. Minor pyrite blebs.	20.2/24.1		86.3	110.4										
110.4	117.7	MASSIVE SULPHIDES Rather vuggy and broken; high grade. 110.4-111.6 -- vuggy; 40% pyrite, 30% lead-zinc, magnetite -113.1 -- less vuggy; 50% pyrite, 20% lead-zinc, magnetite -115.2 -- broken, vuggy; 40% pyrite, 25-30% lead-zinc; magnetite -117.7 -- vuggy, minor phyllite; 40% pyrite, 20% lead-zinc magnetite	1.2	2290	110.4	111.6	1.2	11.57	16.18	4.74			13.88	19.42	5.69	
			1.5	2291		113.1	1.5	9.15	10.64	3.97			13.73	15.96	5.96	
			2.0	2292		115.2	2.1	6.75	9.16	3.00			14.18	19.24	6.30	
			2.4	2293		117.7	2.5	7.05	9.17	3.03			17.63	22.93	7.58	
				W. Av.	110.4	117.7	7.3	8.14	10.62	3.5	(119.9)		59.42	77.55	25.53	

DIAMOND DRILL RECORD

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PROPERTY _____

D.D.H. No. 75-A113

PAGE 5 of 9

LATITUDE _____

BEARING OF HOLE _____

STARTED _____

CLAIM No. _____

DEPARTURE _____

DIP OF HOLE _____

COMPLETED _____

DIRECTION AND DISTANCE FROM

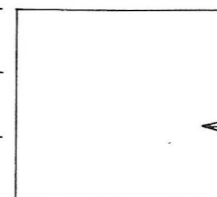
ELEVATION _____

DIP TESTS _____

DEPTH Ultimate: _____

Proposed: _____

NE. CLAIM POST



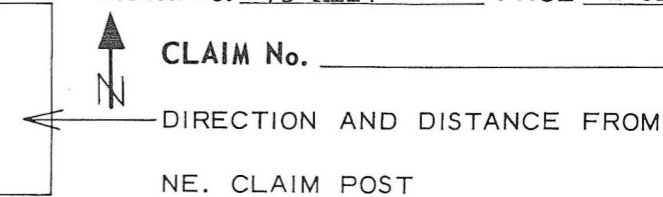
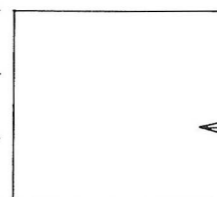
FOOTAGE		DESCRIPTION	Rec. Ft.	Sample No.	Footage		Sample Length	Assay					Assay x Feet				
FROM	TO				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag		
		335.8-336.8 -- broken fragments of quartz-graphite phyllite -337.4 -- broken fragmental quartz-sericite phyllite															
337.4	365.3	QUARTZ ± CALCITE - SERICITE ± GRAPHITE PHYLLITE Medium-dark grey Very banded and variable, very competent rock showing some signs of alteration. F2 consistently 60-70°. Numerous fractures at all angles generally both calcitised and silicified. Calcite content decreases downward becoming negligible below 357.4! 363-365.3 -- sheared, very fractured. F2 very erratic. Numerous thin quartz veinlets throughout.	7.8/ 7.9		337.4	365.3											
365.3	380.2	QUARTZ - SULPHIDE - BARITES Mineralized rock, showing replacement of quartz-sericite phyllite and minor sericite phyllite. Details below: 365.3-366.2 -- massive pyrrhotite and bleached quartz-sericite phyllite bands. 30% pyrrhotite, trace of lead-zinc. F2 changes from 90° to 45° and back to 90° -367.2 -- quartz-barite-sulphide; 30% pyrite, 6% lead-zinc -368.2 -- as above. 30% pyrite, 6-8% lead-zinc -369.2 -- as above. 20% pyrite, 6% (?) lead-zinc -370.2 -- as above; 20% pyrite, 8% lead-zinc -370.8 -- as above; 20% pyrite, 6% lead-zinc -371.8 -- quartz-sericite-chlorite. Silicified. 10% pyrite trace of lead-zinc -372.8 -- as above. 5% pyrite, bands of lead-zinc. Overall 2-3%.	0.9 1.0 1.0 1.0 0.6 1.0 1.0	2908 2909 2910 2911 2912 2913 2914 2915	365.3 367.2 368.2 369.2 370.2 370.8 371.8 372.8	366.2 367.2 368.2 369.2 370.2 370.8 371.8 372.8	0.9 1.0 1.0 1.0 0.6 1.0 1.0	0.50 2.15 5.40 3.45 4.73 6.08 0.73 1.63	1.22 4.20 8.71 6.12 8.10 9.73 1.34 2.52	0.27 1.06 2.53 1.73 2.41 3.24 0.26 0.65							
				W.A.	367.2	370.8	3.6	4.79	7.99	2.39 (82.09)			17.23	28.77	8.61		

DIAMOND DRILL RECORD

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D.D.H. No. 75-A114 PAGE 2 of 5

PROPERTY _____
 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

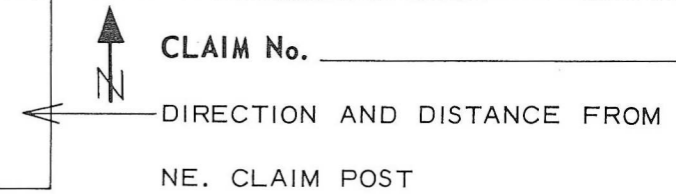
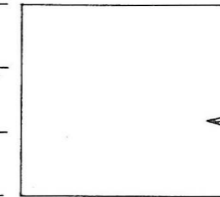
FOOTAGE		DESCRIPTION	Rec. Ft.	Sample No.	Footage		Sample Length	Assay					Assay x Feet			
FROM	TO				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag	
93.2	108.5	INTERBEDDED QUARTZ SULPHIDES AND MASSIVE SULPHIDES M														
		Competent hard rock, variable sulphide content. Very magnetic containing both pyrrhotite and magnetite. Overall low grade.	2.0/	2356	93.2	95.2	2.0	0.68	0.30	0.53				1.96	PZ	
		Details below: 93.2-95.2 -- massive sulphide; 60% pyrite, 10% pyrrhotite, 5% magnetite, 3% (?) lead-zinc	2.5	2357		97.7	2.5	1.20	0.94	0.56				5.34	"	
		-97.7 -- as above	1.0/			98.7										
		-98.7 -- quartz-graphite phyllite. F2 80-90. Barren	1.0													
		-100.7 - massive sulphide, 60% pyrite, 10% pyrrhotite, 10% magnetite, 3% (?) lead-zinc	2.0	2358		100.7	2.0	1.43	1.16	0.71				5.18	PZ	
		-102.7 - as above	2.0	2359		102.7	2.0	1.45	1.56	0.71				6.02	"	
		-104.7 - quartz sulphide; 30% pyrite, 5% pyrrhotite, 3% (?) lead-zinc	2.0	2360		104.7	2.0	1.15	0.30	0.59				2.90	"	
		-106.7 - as above	2.0	2361		106.7	2.0	0.98	0.43	0.80				2.82	"	
		-108.5 - as above, grading into next unit	1.8	2362		108.5	1.8	1.15	0.95	0.59				3.78	"	
				W. Rev.	93.2	97.7	4.5	1.6	Pb Zn					1.30	"	
					98.7	108.5	9.8	2.1	" "					20.70	"	
108.5	112.6	QUARTZ - GRAPHITE PHYLLITE Q Dark grey - black Well foliated, thinly banded, fissile and barren. Top contact shows some bleaching and replacement; lower contact sharp and sheared at 45°.	4.1/		108.5	112.6										
			4.1													
112.6	149.7	INTERBANDED QUARTZ AND MASSIVE SULPHIDES M Very similar to unit at 93.2-108.5. Note, however, pyrrhotite becomes condominant with pyrite in most sections														
		112.6-114.6 -- mixed massive and quartz sulphides. 20% pyrite, 20-25% pyrrhotite, 4% (?) lead-zinc	2.0	2363	112.6	114.6	2.0	1.58	1.36	0.74						

DIAMOND DRILL RECORD

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PROPERTY _____
 LATITUDE _____ BEARING OF HOLE _____ STARTED _____
 DEPARTURE _____ DIP OF HOLE _____ COMPLETED _____
 ELEVATION _____ DIP TESTS _____ DEPTH Proposed: _____ Ultimate: _____



CLAIM No. _____

DIRECTION AND DISTANCE FROM
NE. CLAIM POST

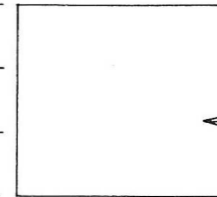
FOOTAGE		DESCRIPTION	Rec. Ft.	Sample No.	Footage		Sample Length	Assay					Assay x Feet				
FROM	TO				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag		
297.3	302.4	QUARTZ - GRAPHITE PHYLLITE Dark grey Banded, fissile, in part sericite. Good partings parallel to F2 foliation 80° to C.A. Minor F1 seen generally contorted. Partly silicified tending to be competent. Minor pyrite. Grades to unit below. Contact 45° even though F2 changes quickly to 80-90° on both sides.	5.0/ 5.1			302.4											
302.4	322.4	CALCITE - CHLORITE PHYLLITE Light greenish grey Coarser, more schistose in appearance than previous unit. Generally well foliated but not fissile. Tends to be competent. F1 often preserved; F2 well developed. Possible third foliation - F3? Sometimes seen as sericitic layering. 302.4-308.5 -- competent, unbroken. F2 80-90°. -316.4 -- very broken and gougy -- FAULT ZONE -322.4 -- competent, becoming less calcareous and grading to a quartz-sericite phyllite. F2 80°	6.1/ 6.1		302.4	308.5											
			7.4/ 7.9			316.4											
			5.9/ 6.0			322.4											
322.4	325.9	QUARTZ - SERICITE PHYLLITE Light grey Grades from unit above to unit below. Slightly calcareous. Trace of lead-zinc and pyrite blebs.	3.5/ 3.5		322.4	325.9											
325.9	361.3	INTERBEDDED QUARTZ - SERICITE PHYLLITES AND SULPHIDES Bleached and silicified, hard, brittle and broken. Trace of copper 325.9-327.4 -- quartz-sericite phyllite; bleached; 10% pyrite 3% lead-zinc	1.1	2605	325.9	327.4	1.5	0.23	0.30	0.12							


DIAMOND DRILL RECORD

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PROPERTY _____
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 DEPARTURE _____ DIP OF HOLE _____ COMPLETED _____
 ELEVATION _____ DIP TESTS _____ DEPTH Proposed: _____ Ultimate: _____



CLAIM No. _____

 DIRECTION AND DISTANCE FROM
 NE. CLAIM POST

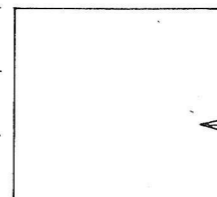
FOOTAGE		DESCRIPTION	Rec. Ft.	Sample No.	Footage		Sample Length	Assay					Assay x Feet				
FROM	TO				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag		
		411.0-412.5 -- quartz-sericite-chlorite-sulphide phyllites banded with massive pyrite and pyrrhotite. Trace of lead-zinc	1.5/ 1.5			412.5											
		-413.4 -- bleached quartz-sericite phyllite; 10% pyrite, 6-8% pyrrhotite, 4% (?) lead-zinc	0.9 6.5/ 6.5	2631		413.4 419.9	0.9	3.38	0.52	0.88							
		-414.0 -- quartz-sericite ± graphite phyllite; bleached 5% pyrite, 4-6% pyrrhotite, trace of lead-zinc															
		-417.0 -- pale quartz-chlorite phyllite; sulphide lenses overall; 6% pyrite, 5% pyrrhotite, trace of lead-zinc															
		-417.6 -- bleached quartz-sericite ± chlorite; 10% pyrite, 10% pyrrhotite, 4% (?) lead-zinc															
		-418.2 -- pale quartz-chlorite phyllite; minor sulphides															
		-418.7 -- bleached quartz-sericite ± chlorite phyllite; 15% pyrrhotite, 5% pyrite, 1-2% lead-zinc															
		-419.9 -- green quartz-chlorite phyllite; barren															
419.9	433.2	INTERBEDDED MASSIVE SULPHIDES AND QUARTZ SULPHIDES Competent; banded; F2 60 . With barites. Both magnetite and pyrrhotite present throughout															
		419.9-420.9 -- massive sulphide; 60%pyrite, 10% pyrrhotite, 10-12% lead-zinc	1.0 1.0	2632 2633	419.9	420.9 421.9	1.0 1.0	3.23 1.75	4.50 1.90	1.03 0.88							
		-421.9 -- massive sulphide; 50% pyrite, 5% pyrrhotite, 6-8% lead-zinc	0.9 1.0	2634 2635		422.8 423.8	0.9 1.0	5.78 5.48	8.31 7.07	1.85 1.82				5.20 5.48	7.48 7.07	1.67 1.82	
		-422.8 -- quartz sulphide; 40% pyrite, 5% pyrrhotite, 6% lead-zinc	1.0 1.0	2636 2637		424.8 425.8	1.0 1.0	3.68 3.23	6.94 5.28	1.00 1.24				3.68 3.23	6.94 5.28	1.00 1.24	
		-423.8 -- quartz sulphide; 40% pyrite, 5% pyrrhotite, 4-6% lead-zinc	1.0 1.0	2638 2639		426.8 427.8	1.0 1.0	0.25 1.98	0.26 2.46	0.15 1.06							
		-425.8 -- quartz sulphide; 40% pyrite, 5% pyrrhotite, 4-6% lead-zinc	1.0 1.6	2640 2641		428.8 430.4	1.0 1.6	0.70 0.83	0.52 0.94	0.44 0.35				1.22 2.83	F2 "		

DIAMOND DRILL RECORD

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D.D.H. No. 75-A117 PAGE 2 of 6

PROPERTY _____
 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		DESCRIPTION	Rec. Ft.	Sample No.	Footage		Sample Length	Assay					Assay x Feet			
FROM	TO				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag	
		69.5-71.3 -- gray gouge with rock fragments	0.9/ 1.8		69.5	71.3										
		-72.3 -- quartz-sericite+calcite phyllite; very broken F2 45°.	0.8/ 1.0			72.3										
		-72.8 -- gray gouge with rock fragments	0.3/ 0.5			72.8										
		-73.8 -- quartz-sericite phyllite; broken														
		-77.1 -- gray gouge with rock fragments	0.9/ 1.0			73.8										
		-77.8 -- black gouge														
			0.5/ 3.3			77.1										
			0.5/ 0.7			77.8										
77.8	80.8	QUARTZ - GRAPHITE PHYLLITE Black Rather sheared, fissile, poorly foliated but with small quartz and kaolin filled fractures. F2 60°. Incompetent.	3.0/ 3.0		77.8	80.8										
80.8	89.6	INTERBEDDED QUARTZ - SERICITE - SULPHIDES AND MASSIVE SULPHIDES F2 generally 60°.														
		80.8-81.2 -- massive sulphide; 60-70% pyrite, 6% (?) lead-zinc	0.4	2925	80.8	81.2	0.4	6.08	11.95	2.85			2.432	4.78	1.14	
		-81.7 -- same; 30-40% pyrite, 25-30% lead-zinc														
		-82.3 -- same; minor quartz. 50-60% pyrite, 10-12% lead-zinc	0.5	2926		81.7	0.5	14.62	25.08	7.00			7.31	12.54	3.50	
		-83.3 -- same; 50-60% pyrite, 20% lead-zinc	0.6	2927		82.3	0.6	10.27	13.77	4.71			6.162	8.262	2.826	
		-83.9 -- same with minor graphite; 50-60% pyrite, 20% lead zinc	1.0	2928		83.3	1.0	13.13	24.65	6.82			13.13	24.65	6.82	
		-85.2 -- mixed massive sulphides with quartz-graphite phyllite; 20-30% pyrite, 10-11% lead-zinc	0.6	2929		83.9	0.6	11.21	23.13	5.91			6.726	13.878	3.546	
		-86.0 -- massive sulphide; 40-50% pyrite, 20-25% lead-zinc														
		-87.0 -- massive sulphide; 60-70% pyrite, 8-10% lead-zinc	1.3	2930		85.2	1.3	8.22	18.67	4.80			10.686	24.271	6.24	

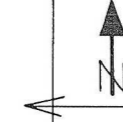
DIAMOND DRILL RECORD

LOGGED BY M. de Quadros

PROPERTY _____
 LATITUDE _____ BEARING OF HOLE _____ STARTED _____
 DEPARTURE _____ DIP OF HOLE _____ COMPLETED _____
 ELEVATION _____ DIP TESTS _____ DEPTH Proposed: _____ Ultimate: _____

D.D.H. No. _____ PAGE 3 of 6

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DIRECTION AND DISTANCE FROM

NE. CLAIM POST

FOOTAGE		DESCRIPTION	Rec. Ft.	Sample No.	Footage		Sample Length	Assay					Assay x Feet		
FROM	TO				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag
		87.0-88.0 -- massive sulphide; 60-70% pyrite, 6-8% lead-zinc	0.8	2931		86.0	0.8	11.65	23.40	6.18			9.32	18.72	4.944
		-89.0 -- quartz-barite?-sulphide; 40% pyrite, 6% lead-zinc	1.0	2932		87.0	1.0	7.65	11.52	3.30			7.65	11.52	3.30
		-89.6 -- same	1.0	2933		88.0	1.0	4.43	5.76	1.76			4.43	5.76	1.76
			1.0	2934		89.0	1.0	5.85	13.68	2.71			5.85	13.68	2.71
			0.6	2935		89.6	0.6	6.39	9.89	3.06			3.834	5.934	1.836
				W.A.	80.8	89.6	8.8	8.81	13.36	4.39	(152.5)		97.53	143.995	38.622
89.6	165.6	FAULT ZONE													
		Gouge and broken rock with sulphides	0.7/			89.6	91.6								
		89.6-91.6 -- black gouge	1.0				1.0								
		-95.0 -- broken rubbly quartz-graphite phyllite	1.6/			95.0									
		-97.1 -- gouge, black	3.4												
		-98.1 -- massive sulphide; 60% pyrite, 6-8% (?) lead-zinc	0.3/			97.1									
		- Slightly vuggy, competent; minor black gouge at	2.1												
		97.1-97.3	1.0	2936		98.1	1.0	5.33	8.88	2.91					
		-99.3 -- black gouge with sulphides													
		-100.3 - competent massive sulphide; 60% pyrite, 4-6% lead-zinc	1.1/			99.3									
			1.2												
		-101.3 - massive sulphide, vuggy; 60% pyrite, 8-10% lead-zinc	1.0	2937		100.3	1.0	5.88	8.82	2.94					
		-102.3 -- as above	1.0	2938		101.3	1.0	3.90	6.77	1.71					
		-103.3 -- as above; 60% pyrite, 6-8% lead-zinc	1.0	2939		102.3	1.0	5.63	8.15	3.21					
		-103.7 -- broken quartz sericite ± graphite phyllite	1.0	2940		103.3	1.0	5.03	6.48	2.44					
		gouge contact at 30°	0.4/			103.7									
		-104.6 -- black gouge	0.4												
		-107.3 -- quartz-graphite phyllite; very broken	0.6/			104.6									
		-110.3 -- broken graphite phyllite and gouge	0.9												
		-111.8 -- quartz-sericite phyllite; competent. F2 60°	2.2/			107.3									
		-113.4 -- black gouge with rock fragments	2.7	W.A.	99.3	103.3	4.0	5.11	7.56	2.58	(88.29)		20.44	30.22	10.30
					97.1	103.3	6.2	4.16	6.30	2.13	(73.05)		25.77	39.08	13.21

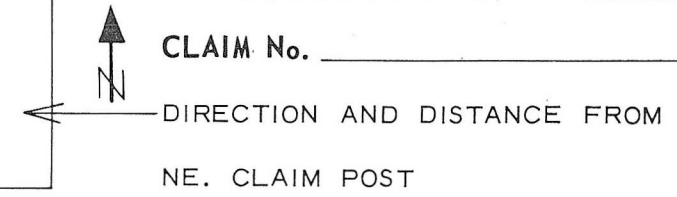
DIAMOND DRILL RECORD

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D.D.H. No. 75-A118 PAGE 1 of 14

PROPERTY VANGORDA, GRUM JOINT VENTURE

LATITUDE HIW 11 076.78 N OLD 6N BEARING OF HOLE 0' 200' 123° 80° 90° 123° 80° STARTED September 5, 1975
 DEPARTURE 7 388.58 E 86W DIP OF HOLE 600' 121° 78° 800' 132° 78° COMPLETED September 14, 1975
 ELEVATION 1325.26 DIP TESTS 1100' 142° 78° 1300' 142° 78° 1400' 142° 77° DEPTH Proposed: Ultimate: 468.5m (1537')



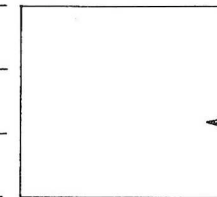
metres FOOTAGE		DESCRIPTION	metres FOOTAGE		Sample Length	Assay					Assay x Feet		
FROM	TO		Rec. From	Sample No.		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag
0	7.9	OVERBURDEN											
7.9	71.2	CALCITE - CHLORITE PHYLLITE Light greenish-gray Banded, calcareous rock; thickly foliated and generally poorly fissile. Fissility tends to be imparted by thin sericitic or talcy partings. Competent. Minor graphitic zones, very fissile, seldom more than 50cm wide. F1 preserved, seen as subvertical sigmoid or contorted streaks cut-off by well developed F2 which is generally 70-80 to C.A. A few minor folds are also visible but seldom more than 2cm wide. 39.2-40.2 -- broken 44.3-44.8 -- broken with gouge 47.9-50.3 -- graphitic, broken. Very minor gouge	22.5/ 22.7		7.9	30.6							
			20.2/ 20.4			51.0							
			20.1/ 21.2			71.2							
71.2	78.5	FAULT ZONE 71.2-76.5 -- calcite-graphite phyllite; broken with gouge -77.7 -- calcite-chlorite phyllite; very broken -78.1 -- calcite-graphite phyllite; broken -78.5 -- white vein quartz	6.8/ 7.3		71.2	78.5							
78.5	89.2	CALCITE - GRAPHITE ± SERICITE PHYLLITE Dark gray Fissile, well foliated, finely banded. F2 tends to be uneven but generally 70-80°. F2 visible as tight upright folds and streaks. Grades to the unit below. Minor bands of chlorite present.	10.6/ 10.7		78.5	89.2							

DIAMOND DRILL RECORD

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D.D.H. No. 75-A118 PAGE 3 of 14

PROPERTY _____
 LATITUDE _____ BEARING OF HOLE _____ STARTED _____
 DEPARTURE _____ DIP OF HOLE _____ COMPLETED _____
 ELEVATION _____ DIP TESTS _____ DEPTH Proposed: _____ Ultimate: _____



CLAIM No. _____
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FOOTAGE		DESCRIPTION	Rec. Ft.	Sample No.	Footage		Sample Length	Assay					Assay x Feet			
FROM	TO				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag	
119.3	153.3	CALCITE - CHLORITE PHYLLITE Light greenish gray Competent rock; thickly banded, generally not fissile. Well foliated. F1 as minor subvertical streaks. F2 as broad bands and sericitic partings, 70-80° to C.A. Minor graphitic and sericitic zones. Minor gouge zones 2-5cm long. Fractures subvertical, calcitised. Minor quartz veins 2-3cm across, concordant with F2. 149.4-153.3 -- becomes less carbonaceous and chloritic, grading down to the next unit	19.6/ 19.6 14.2/ 14.4													
153.3	160.0	QUARTZ - SERICITE ± CALCITE PHYLLITE Medium gray Fissile, broken. F1 rarely seen. F2 irregular averaging 70-80° to C.A. Minor graphitic and calcareous zones. Grades into a graphite phyllite at base.	6.4/ 6.7			153.3	160.0									
160.0	170.7	FAULT ZONE 160.0-161.5 -- black graphite phyllite, broken with minor gouge F2 80-90°. -162.0 -- green quartz-fuschite rock; broken -164.0 -- silicified, hard, brittle quartz-sulphide ± graphite phyllite; 20% pyrite, 8% lead-zinc -164.4 -- green quartz-fuschite rock; broken -165.0 -- quartz sulphide as at k62.0-164.0 -166.0 -- black gouge with rock fragments -168.6 -- broken bleached quartz-sericite phyllite with fragments of white quartz and graphitic phyllite -168.9 -- black gouge -170.7 -- broken bleached quartz-sericite phyllite	1.3/ 1.5 0.5/ 0.5 1.8 0.3/ 0.4 0.4 0.1/ 1.0			160.0	161.5 162.0 164.0 164.4 165.0 166.0 168.6 168.9 170.7									
						2645	2.0	2.43	3.48	1.09			4.86	6.96	2.18	
						2646	0.6	1.78	2.52	0.88			1.068	1.512	0.528	
						W. Av. 162.0	3.0	1.98	2.82	0.90	(30.9)		5.928	8.472	2.708	

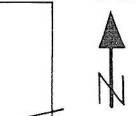
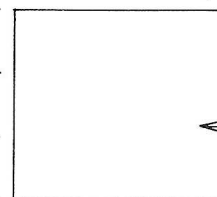
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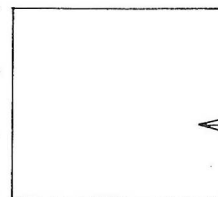
FOOTAGE		DESCRIPTION	Rec. Ft.	Sample No.	Footage		Sample Length	Assay					Assay x Feet				
FROM	TO				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag		
196.6	201.2	QUARTZ - SERICITE - GRAPHITE PHYLLITE Dark gray Well banded, thinly foliated, fissile. F2 80-90°. Occasionally slightly calcareous.	4.5/ 4.6		196.6	201.2											
201.2	201.4	INTERBEDDED MASSIVE SULPHIDES/QUARTZ GRAPHITE/QUARTZ CHLORITE PHYLLITES F2 80°. 20% pyrite, 10-12% lead-zinc.	0.2/ 0.2		201.2	201.4											
201.4	203.0	SCHISTOSE QUARTZ - CHLORITE ± CALCITE PHYLLITE Green Banded, coarse, competent. F2 70-80°.	1.6/ 1.6		201.4	203.0											
203.0	220.0	QUARTZ - SERICITE - SULPHIDES Hard, brittle, silicified; well banded and foliated. Sulphide content is very variable from barren to massive sulphides. Both extremes, however, are not common. Locally F2 can be up to 45° to C.A. but overall varies from 75-85°. Minor barren chloritic phyllite and quartz veins.															
		203.0-204.0 -- 15% pyrite, 4% lead-zinc	1.0	2647	203.0	204.0	1.0	1.75	3.06	0.88							
		203.8-204.0 -- barren quartz-chlorite phyllite															
		-205.0 -- 20% pyrite, 6-8% lead-zinc	1.0	2648		205.0	1.0	3.23	4.92	1.09							
		-206.0 -- 25% pyrite, 8-10% lead-zinc	1.0	2649		206.0	1.0	2.85	4.80	1.00							
		-207.0 -- 20% pyrite, 6% lead-zinc. Barren chlorite phyllite at 207.2-207.3 and 207.4-207.5	1.0	2650		207.0	1.0	1.70	2.10	0.59							
		-208.0 -- 30% pyrite, 10% lead-zinc	1.0	2651		208.0	1.0	1.65	4.20	0.62							
		-208.0 -- 30% pyrite, 10% lead-zinc	1.0	2652		209.0	1.0	2.70	3.30	0.88							
		207.0-207.2 -- massive sulphide	1.0	2653		210.0	1.0	2.28	2.52	0.83							
		-209.0 -- 20% pyrite, 10-12% lead-zinc	0.8	2654		211.0	1.0	1.68	1.94	0.59							

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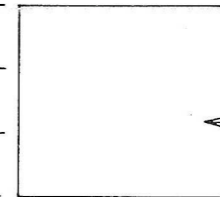
FOOTAGE		DESCRIPTION	Rec. Ft.	Sample No.	Footage		Sample Length	Assay					Assay x Feet		
FROM	TO				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag
		209.0-210.0 -- 10% pyrite, 6% lead-zinc; broken	1.0	2655		212.0	1.0	1.70	1.08	0.68					
		-211.0 -- 20% pyrite, 8-10% (?) lead-zinc; broken	1.0	2656		213.0	1.0	0.93	0.86	0.32					
		-212.0 -- 10% pyrite, 2-4% lead-zinc	0.6	2657		214.0	1.0	0.63	0.68	0.29					
		211.2-211.5 - white quartz													
		-213.0 -- 10-15% pyrite, 4% lead-zinc													
		-214.0 -- 10% pyrite, 4% lead-zinc; broken with gouge	1.0	2658		215.0	1.0	2.10	0.94	0.85			3.04	PE	
		-215.0 -- 10% pyrite, 4% lead-zinc													
		-216.9 -- broken rock; numerous white quartz lenses; mainly bleached quartz-sericite phyllite. 15%	1.3	2659		216.9	1.9	0.30	0.32	0.24			1.178	"	
		pyrite, 2% (?) lead-zinc. F2 very erratic	0.6	2660		217.5	0.6	5.33	6.93	2.21			3.198	4.158	1.326
		-217.5 -- quartz-sericite sulphide; quartz veins at 217.3-217.4. 20% pyrite, 8-10% lead-zinc	1.0	2661		218.5	1.0	3.98	6.60	1.68			3.98	6.60	1.68
		-218.5 -- as above; 20% pyrite, 10% lead-zinc				220.0	1.5	1.65	4.14	0.80			2.475	6.21	1.20
		-220.0 -- mixed with quartz sericite phyllite; 10% pyrite, 4% lead-zinc		W. Av.	203.0	206.0	3.0	2.61	4.26	0.99	(33.94)		7.83	12.78	2.97
				"	206.0	210.0	4.0	2.08	3.03	0.73	(25.03)	✓	8.33	12.12	2.92
				"	210.0	212.0	2.0	1.69	1.51	0.64	(21.77)		3.38	3.02	1.27
				"	216.9	220.0	3.1	3.11	5.47	1.36	(46.52)		9.653	16.968	4.206
220.0	226.0	QUARTZ - SERICITE PHYLLITE Light gray			203	210	7	2.31	3.55	28.9					
		Silicified, hard and competent. Altered appearance with small chloritic zones and numerous quartz veins especially at 222.3-222.7 and at 223.4-223.9. F2 60-70°. Minor pyrite and pyrrhotite blebs. Both contacts are abrupt at 80-90°.	4.0/ 4.0		220.0	226.0									
226.0	235.3	QUARTZ - SERICITE - SULPHIDE PHYLLITE													
		Similar to unit at 203.0-220.0.	0.8	2663	226.0	226.8	0.8	3.68	4.33	1.53			2.944	3.464	1.224
		226.0-226.8 -- 10% pyrite, 6-8% lead-zinc. F2 80°	1.0	2664		227.8	1.0	0.58	0.58	0.29			0.58	0.58	0.29
		-227.8 -- as above	1.0	2665		228.8	1.0	3.75	2.88	1.38			3.75	2.88	1.38
		-228.8 -- 15% pyrite, 10-12% lead-zinc	1.0	2666		229.8	1.0	5.39	4.39	2.21			5.39	4.92	2.21
		-229.8 -- 15% pyrite, 8% lead-zinc. F2 80°	0.5	2667		230.3	0.5	1.48	1.98	0.77			0.74	0.99	0.385
		-230.3 -- massive pyrrhotite, 2% (?) lead-zinc	1.0	2668		231.3	1.0	6.16	10.58	2.85					

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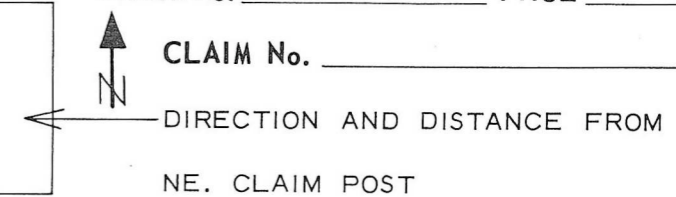
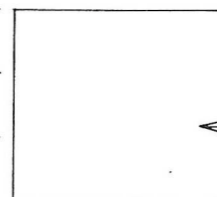
FOOTAGE		DESCRIPTION	Rec. Ft.	Sample No.	Footage		Sample Length	Assay					Assay x Feet			
FROM	TO				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag	
		230.3-231.3 -- quartz-sericite sulphide; 20% pyrite, 10-12% lead-zinc	1.0	2669		232.3	1.0	7.11	10.86	2.44						
			1.0	2670		233.3	1.0	5.57	10.76	2.65						
		-232.3 -- as above; 25% pyrite, 14% lead-zinc	1.0	2671		234.3	1.0	3.98	7.52	1.76						
		-233.3 -- as above; 20% pyrite, 10-12% lead-zinc	1.0	2672		235.3	1.0	1.83	3.72	0.80			1.83	3.72	0.80	
		-234.3 -- as above; 20% pyrite, 10-12% lead-zinc														
		-235.3 -- graphitic; 15% pyrite, 8% lead-zinc with massive sulphide at 235.0-235.3.														
				W. Av.	227.8	230.3	2.5	3.95	3.52	1.59	(54.5)		9.88	8.79	3.975	
				OR	226.0	230.3	4.3	3.12	2.98	1.28	(43.71)	✓	13.404	12.834	5.489	
					230.3	234.3	4.0	5.71	9.93	2.55	(87.43)		22.82	39.72	10.20	
235.3	240.5	QUARTZ - GRAPHITE PHYLLITE Black Well foliated, well banded, very fissile. Occasionally slightly calcareous. F2 80-90°. Competent. Pyrite blebs throughout.				230.3	235.3	5.0	4.93	8.68	2.2	(75.4)				
			5.2/			235.3	240.5									
240.5	248.7	QUARTZ - SERICITE - SULPHIDE ± GRAPHITE PHYLLITE Dark, well banded and foliated; silicified, hard and competent essentially a low grade dissemination.														
		240.5-241.7 -- 15-20% pyrite, 6% lead-zinc. F2 80°.	1.2	2673	240.5	241.7	1.2	1.48	1.90	0.71			1.776	2.28	0.852	
		-243.4 -- 20% pyrite, 10-12% lead-zinc. F2 folded	1.7	2674		243.4	1.7	2.18	3.96	1.00			3.706	6.732	1.700	
		-245.4 -- 20% pyrite, 4% lead-zinc. F2 80°	2.0	2675		245.4	2.0	0.73	0.99	0.59			3.34	F2		
		-247.4 -- 20% pyrite, 2-4% lead-zinc. F2 80°	2.0	2676		247.4	2.0	0.63	0.84	0.68			2.94	"		
		-248.7 -- 15-20% pyrite, 4% lead-zinc	1.3	2677		248.7	1.3	0.88	1.30	0.56			2.83	"		
				W. Av.	240.5	243.4	2.9	1.89	3.11	0.88	(30.17)		5.482	9.012	2.552	
				OR	243.4	248.7	5.3	1.7	F2W				9.11	F2W		
248.7	259.0	QUARTZ - GRAPHITE PHYLLITE Black Well foliated, thinly banded, very fissile. Partly silicified and competent. Minor pyrite and lead-zinc disseminated throughout. F2 generally 80-90°. Minor quartz veins.	2.8/			248.7	251.5									
		251.5-252.1 -- quartz-graphite-sulphide; hard and silicified.	0.6	2678		252.1	0.6	1.43	2.64	0.74						

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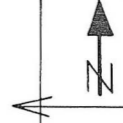
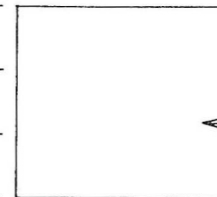
FOOTAGE		DESCRIPTION	Rec. Ft.	Sample No.	Footage		Sample Length	Assay					Assay x Feet				
FROM	TO				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag		
		10-15% pyrite, 6-8% lead-zinc	6.9/ 6.9			259.0											
259.0	261.6	MIXED QUARTZ - CHLORITE AND QUARTZ GRAPHITE PHYLLITES Interbanded; contacts abrupt at 90°. F2 80-90°.	2.5/ 2.6		259.0	261.6											
261.6	266.7	QUARTZ - GRAPHITE PHYLLITE Dark gray Similar to unit at 248.7-259.0. F2 80°. Broken. 265.1-265.2 -- 20% pyrite, 12-15% lead-zinc	5.0/ 5.1			266.7											
266.7	290.2	QUARTZ - SERICITE PHYLLITE Light gray Well foliated, moderately fissile. F1 rarely seen. F2 well developed, 80-90° to C.A. Minor chloritic bands and quartz veins, rare graphitic laminae. Competent. 279.7-279.9 -- gougy, broken 284.7-284.8 -- massive sulphide; 40-50% pyrrhotite, 14% (?) lead-zinc 289.5-290.2 -- broken	9.0/ 9.1 14.2/ 14.4		266.7	275.8 290.2											
290.2	292.5	QUARTZ - SULPHIDE ± SERICITE ± GRAPHITE ROCK Hard, brittle, silicified; broken with core loss. Sampled from block to block. F2 60°. Numerous healed fractures. 290.2-290.5 -- 40% pyrite, 14% (?) lead-zinc -291.5 -- 40% pyrite, 12% (?) lead-zinc	0.3 0.8	2679 2680	290.2	290.5 291.5	0.3 1.0	5.76 5.75	10.07 3.00	2.50 2.00				1.728 5.75	3.021 3.00	0.75 2.00	

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FROM	TO				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag		
		342.4-242.9 -- quartz vein with large chlorite phyllite xenolith															
		-343.2 -- sericite phyllite; broken. F2 erratic	10.2/		228.7	349.0											
		-343.6 -- white quartz vein	10.3														
		-349.0 -- quartz-sericite phyllite. F2 80°	4.0/			354.1											
		-354.1 -- FAULT ZONE - fragments and gouge. Very talcy and friable.	5.1														
		-355.5 -- altered and partly bleached quartz-sericite phyllite. Trace of sulphides; very broken	1.3/			355.5											
			1.4														
355.5	381.9	INTERBEDDED SULPHIDES AND PHYLLITES															
		Generally broken. Details below:															
		355.5-356.5 -- quartz-sericite phyllite; 15% pyrite, 1% lead-zinc F2 erratic	1.0	2682	355.5	356.5	1.0	0.73	0.80	0.38							
		-357.2 -- mixed sulphide; 20% pyrite, 8% lead-zinc	0.7	2683		357.2	0.7	3.60	3.90	1.62			2.52	2.73	1.134		
		-358.9 -- massive sulphide breccia cemented by kaolin; 60% pyrite, 4-6% lead-zinc	1.6	2684		358.9	1.7	2.28	2.46	1.03			3.876	4.182	1.751		
		-359.7 -- quartz-sericite phyllite; 20% pyrite, 6% lead-zinc	0.8	2685		359.7	0.8	2.03	4.26	0.74			1.624	3.408	0.592		
		-360.6 -- as above	0.7	2686		360.6	0.9	1.88	3.30	0.83			1.692	2.990	0.747		
		-369.4 -- quartz-sericite phyllite with soft gougy fuschite and kaolin zones. F2 80°	3.0/			369.4											
		-370.9 -- massive sulphide; 70% pyrite, 2-4% (?) lead-zinc	8.8	W.A.	356.5	360.6	4.1	2.37	3.24	1.03	(35.32)		9.712	13.290	4.224		
		-372.8 -- a few pebbles - rock? Lost core.	1.5	2687		370.9	1.5	5.03	7.63	2.47							
		-374.3 -- vuggy massive sulphide; 50% pyrite, 12% (?) lead zinc	0.1/			372.8											
		-375.7 -- quartz sulphide sericite; 30% pyrite, 1-3% lead-zinc	1.9														
		-377.0 -- as above	1.2	2688		374.3	1.5	3.90	4.68	1.59							
		-377.6 -- massive sulphide; very broken. 60% pyrite, 2-4% lead-zinc	1.2	2689		375.7	1.4	0.15	0.26	0.38							
		-379.2 -- as above	1.1	2690		377.0	1.3	1.38	2.52	0.83							
			0.4	2691		377.6	0.6	5.70	8.83	2.18			3.42	5.298	1.308		
			1.5	2692		379.2	1.6	2.38	2.34	1.21			3.808	3.744	1.936		
			1.5	2693		380.7	1.5	3.68	5.82	1.59			5.520	8.730	2.385		
			1.2	2694		381.9	1.2	4.43	8.38	2.06			5.316	10.056	2.472		

Interval		DESCRIPTION	ESTIMATE		Recovery	Sample No	Interval		Sample Length	Assay					Assay x		
From	To		Py	PbZn			From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag
109.0	115.1	QUARTZ SULPHIDE ZONE: Interbanded py, sphal. and siliceous material. Banding at 65°.	20	8	2.0	2471	109.1	111.1	2.0	3.08	4.80	1.15			6.160	9.600	2.300
			20	6	2.2	2472	111.1	113.9	2.8	2.48	4.38	1.09			6.944	12.264	3.052
			10	12	1.0	2473	113.9	115.1	1.2	4.73	8.42	2.00			5.676	10.104	2.400
115.1	116.8	QUARTZ CHLORITE TALC PHYLLITE Similar to section 96.0-98.9	10	10	1.7/1.7	-----	115.1	116.8	-----								
					2.4	2474	116.8	119.2	2.4	3.08	5.04	1.35					
116.8	119.2	QUARTZ SULPHIDE: Interbanded grey chert, py and sphalerite. Banding at 85°. Very competent rock				W. Av.	109.1	115.1	6.0	3.13	5.33	1.29 (44.3)			18.780	31.968	7.752
119.2	120.7	QUARTZ CHLORITE- CHLORITE-TALC-CALCITE-PHYLLITE Local quartz and fushite bands. F ₂ =70. Calcite approximately 0.1%			1.5/1.5												
120.7	125.0	QUARTZ-GRAPHITE-PHYLLITE Inter banded with 2-5 MM. bands of Py. Sph.	10	6	1.1	2475	120.7	122.8	2.1	1.53	3.12	0.65					
			20	10	1.1	6	122.8	124.0	1.2	4.35	7.06	1.73	x13		1.224	2.446	0.520
			15	5	0.9	7	124.0	125.0	1.0	2.93	4.08	1.03			5.220	8.472	2.076
															2.930	4.080	1.030
125.0	130.4	QUARTZ-SERICITE-PHYLLITE Muddy broken core containing small mud seams. Rock contains numerous bands 1-30 MM. of sulphides	20	2	1.1	8	125.0	126.2	1.2	0.70	1.26	0.35					
			20	2	0.9	9	126.2	127.1	0.9	0.48	0.82	0.29			1.17	PbZn	
			10	2	1.0	80	127.1	128.3	1.2	0.43	1.02	0.24			1.74	"	
			10	2	2.0	2481	128.3	130.4	2.1	1.28	0.82	0.59					

Interval		DESCRIPTION	Recovery	Sample No	Interval		Sample Length	Assay					Assay x			
From	To				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag	
130.4	132.6	FAULT GOUGE	0.3/1.2	W. Av.	122.0	125.0	3.0	3.12	5.02	1.21	(41.4)		9.374	15.048	3.626	
					126.2	127.1	0.9	1.4	Pb-Zn				2.91	Pb-Zn		
132.6	134.8	SERICITE PHYLLITE WITH MARIPOSITE	1.5/2.2													
134.8	145.6	QUARTZ SULPHIDE ZONE Chert and silicified phyllite interbanded with streaks and bands 2-15MM. of Py, Spha, Galena. Banding at 60°.														
					ESTIMATE											
					Py	PbZn										
		Local short sections of fuchite-mariposite stained sericite phyllite at 136.2-136.4, 140.6-140.8, 141.7-142.0	1.3	2482	10	8	134.8	136.2	1.4	1.53	2.94	0.62		2.142	4.116	0.868
			1.5	3	15	8		137.7	1.5	2.25	1.98	0.77		3.375	2.970	1.155
			1.9	4	10	10		139.6	1.9	2.48	3.66	0.68		4.712	6.954	1.292
			1.1	5	5	5		140.8	1.2	3.38	6.51	1.32	10.3	0.744 4.056	1.098 7.812	0.204 1.584
145.6	146.7	QUARTZ-TALC-CHLORITE PHYLLITE Interbanded quartz, phyllite and dark green talc. F ₂ =70	1.3	6	5	5		142.3	1.5	2.48	4.50	1.47		3.120	6.750	2.205
			1.5	7	3	4		143.8	1.5	3.30	6.78	0.07		4.950	10.170	1.455
			1.7	8	3	8		145.6	1.7	4.35	6.73	1.47		7.830	12.114	2.646
			1.1/1.1					145.6	146.7	-----						
146.7	147.4	QUARTZ SULPHIDE ZONE	0.7	2802	5	3		146.7	147.4	0.7	3.00	5.10	1.38			
147.4	151.7	TALC?-CHLORITE-QUARTZ-PHYLLITE Grey-green color. Sharp contacts at 60° Gouge-150.7-151.0	4.1/4.3	W. Av.	134.8	137.7	2.9	1.90	2.44	0.7	(23.9)	✓	5.817	7.086	2.023	
					139.3	142.3	3.0	2.84	5.22	1.33	(45.6)		8.520	15.660	3.993	
					142.3 134.8	145.6 139.6	3.3 4.8	3.87 2.13	6.75 2.92	1.25	(42.6) (23.67)		12.780	22.284	4.101	

Interval		DESCRIPTION	ESTIMATE		Recovery	Sample No	Interval		Sample Length	Assay					Assay x		
From	To		Py	PbZn			From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag
183.3	194.5	QUARTZ SULPHIDE ZONE.															
		183.3-184.4-Interbanded sulphides and chert	15	8	1.9	2496	170.0	172.0	2.0	2.28	3.72	1.03			4.56	7.44	2.06
			20	8	2.0	2497	172.0	174.0	2.0	2.40	3.90	1.21			4.80	7.80	2.42
		184.4-185.8-Quartz sericite Talc Phyllite	20	10	2.0	2498	174.0	176.0	2.0	1.88	3.72	0.85			3.76	7.54	1.70
		185.8-187.0-Interbanded sulphides and phyllite.	8	6	2.0	2499	176.0	178.0	2.0	2.28	6.48	1.12			4.50	12.96	2.24
		187.0-189.3-Sericite-Talc phyllite	10	8	2.0	2500	178.0	180.0	2.0	1.13	2.64	0.59			2.26	5.28	1.18
		189.3-190.5-Interbanded sulphides and chert.	5	2	0.7	2801	180.0	180.7	0.7	2.93	3.66	1.56			2.051	2.562	1.092
		190.5-192.1-As above plus bands of massive sulphides	10	6	1.1	2803	183.3	184.4	1.1	3.98	6.00	1.44			4.378	6.600	1.584
		192.1-193.2-Sericite, bull quartz, minor sulphides.	2	TR	1.4	4	184.4	185.8	1.4	0.10	0.12	0.09			0.140	0.168	0.126
		193.2-194.5-Massive Sulphide with minor sericite phyllite bands	40	8	1.2	5	185.8	187.0	1.2	3.30	7.36	1.79			3.96	8.832	2.148
			2	TR	2.4	6	187.0	189.3	2.3	0.38	0.34	0.15	0.22		0.874	0.782	0.345
			30	10	1.2	7	189.3	190.5	1.2	3.75	6.00	1.85	0.25		4.500	7.200	2.220
			50	10	1.5	8	190.5	192.1	1.6	4.88	5.48	2.06	10.36		7.808	8.768	3.296
			5	2	1.0	9	192.1	193.2	1.1	0.08	0.14	0.09	0.22		0.088	0.154	0.099
			60	10	1.3	10	193.2	194.5	1.3	3.15	6.33	1.62	9.44		4.095	8.229	2.106
194.5	197.1	MAJOR FAULT ZONE: Soft black gouge. Slicken sides on walls at 80°			2.0/2.6	W.Av.	170.0	178.0	8.0	2.20	4.47	1.05	(36.1) 0.7		11.62	35.74	8.42
							178.0	180.7	2.7	1.60	2.40	0.84	(28.9) 4.5		4.311	7.842	2.272
							183.3	187.0	3.7	2.29	4.22	1.04	(35.7) 1.5		8.478	15.600	3.858
							189.3	192.1	2.8	4.40	5.70	1.97	(67.5)		12.308	15.968	5.516
							189.3	194.5	5.2	3.17	4.68	1.48	(50.9)		16.491	24.351	7.721
197.1	201.5	QUARTZ SERICITE TALC PHYLLITE: F ₂ =65°			4.4/4.4	OR											
										7.85							
							183.3	194.5	11.2	2.31	3.64	1.06	(36.5)				

Interval		DESCRIPTION	ESTIMATE		Recovery	Sample No	Interval		Sample Length	Assay					Assay x			
From	To		Py	PbZn			From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag	
201.5	202.9	SULPHIDE ZONE: Interbanded chert and sulphides at start becoming massive sulphide at end of section. F ₂ =80°	15	5	0.9/0.9		201.6	202.5		6%	PbZn	Est.	10.9m					
			70	8	0.4/0.4		202.5	202.9										
		202.7-202.9- Fault Zone. Breccia and gouge at 40°																
202.9	220.8	QUARTZ-SERICITE-TALC-PHYLLITE: No calcite, folded F, cut by F ₂ every 1-3 CM. F ₂ =70° @ 206, 60° @ 210, Nose @ 215, 80° @ 220			17.5/17.9													
220.8	224.3	QUARTZ SULPHIDE ZONE:	ESTIMATE															
			Py	PbZn														
		Interbanded quartz, phyllite, Py, Po, Mag. and Pb-Zn at 70°-80°	30	8	2.0	2811	220.8	222.8	2.0	4.88	7.34	2.68		9.760	15.680	5.360		
224.3	228.2	QUARTZ SERICITE PHYLLITE WITH PbZn Similar to previous sections but with wisps of Pb-Zn mineralization.	20	8	1.5	12	222.8	224.3	1.5	4.43	7.18	2.18		6.645	10.770	3.270		
			5	2	1.5	13	224.3	225.8	1.5	0.88	1.98	0.44		4.29	PbZn			
			10	5	2.3	2814	225.8	228.1	2.3	0.53	1.68	0.32		5.08	"			
228.2	236.5	CHLORITE, CALCITE, SERICITE, PHYLLITE Grey-green colour. Local laminae of brown kaolin? F ₂ =80° @ 233			7.7/7.7	W.A.V.	220.8	224.3	3.5	4.69	7.56	2.47	(84.5)	16.405	26.450	8.630		
							224.3	228.1	3.8	2.5	PbZn							
236.5	239.5	MIXED QUARTZ SULPHIDE ADN PHYLLITE Interfolded chlorite-Calcite-Phyllite and laminated chert and sphalerite.	ESTIMATE															
			Py	PbZn														
			10	3	1.1		236.8	237.9		3%	PbZn	(1.1m)						

Interval		DESCRIPTION	Recovery	Sample No	Interval		Sample Length	Assay					Assay x				
From	To				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag		
335.0	336.4	SULPHIDE ZONE:															
		ESTIMATE															
		335.0-335.4 Massive Py with barite, sphalerite and galena.		Py	Pb-Zn												
			70	15		0.4	2825	335.0	335.4	0.4	4.50	6.79	2.85		1.80	2.716	1.14
		335.4-335.7 Bleached sericite and fuchite.		TR	TR	0.3	-----	335.4	335.7	-----							
		335.6-336.3-Same as 335-0-335.4		70	15	0.6	-----	335.7	336.3	-----	use	above	values		2.10	4.074	1.70
		Note* 1) Sample of whole core taken for strength tests (335.7-336.3 ^m ?)															
							W.Av.	335.0	336.3	1.3	3.46	5.22	2.19	(75.2)	4.5	6.790	2.85
		2) Note light tan mineral-carbonate?															
336.4	370.6	SERICITE-QUARTZ-TALC-PHYLLITE: Numerous small quartz-py veinlets Py 1-2%. Bleached 337.3-338.0 F ₂ =45° @ 338.0, 60° @ 340.0, 85° @ 345.0 80° @ 350.0, 80° @ 335.0, 80° @ 360.0 80° @ 365.0, 70° @ 370.0. 353.7-354.0 Blebs of Po															
							4.0/4.2										
		FAULT GOUGE: 350.3-351.1															
370.6	375.2	BLEACHED SERICITE PHYLLITE: <i>Sb</i> Contorted foliation. Numerous irregular quartz veinlets. Scattered irregular veinlets of Po-Py-Pb-Zn mineralization.		ESTIMATE Py	Pb-Zn												
			5	2		2.1	2826	371.5	373.8	2.3	0.33	0.56	0.21		2.05	Pb Zn	
			3	2		1.4	2827	373.8	375.2	1.4	0.15	0.16	0.12		0.43	"	
375.2	380.7	QUARTZ SULPHIDE ZONE: Interbanded sulphides and highly silicified phyllite Banding parallel to F ₂ =60°															
							W.Av.	371.5	375.2	3.7	0.7	Pb Zn			2.48	"	

