

VANGORDA GRUM  
DIAMOND DRILL RECORDS  
UNDERGROUND

75 - U1 to U9  
76 - U10 to U25

December 1975

018541

75 - U1 to U9  
76 - U10 to U25

(Handwritten  
Originals )





Interval		DESCRIPTION	Recovery	Sample No	Interval		Sample Length	Assay					Assay x			
From	To				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag	
24.4	44.1	QUARTZ - SERICITE - PHYLLITE LIGHT GREY Silicified, partly altered, brittle with numerous broken zones, F2 generally 25-30°.														
		24.4-25.7 Partly bleached, broken	1.2/1.3		24.4	25.7										
		43.7 Med. grey, generally broken, blocky	17.8/28.0			43.7										
		44.1 Very broken and gougy zone	0.5/0.8			44.1										
54.9		MASSIVE SULPHIDES Very broken, blocky and variable; grade difficult to estimate due to broken nature. Details:														
		44.1-45.7 Py 60-70, PbZn 6?, very broken	0.2	U1109	44.1	45.7	1.6	8.35	12.52	4.06			13.36	20.032	6.496	
		47.2 Py 60-70, PbZn 6-8? F1? 50°	0.7	U1110		47.2	1.5	8.15	14.81	3.38			12.225	22.215	5.07	
		48.8 Py 60, PbZn 11-12 48.6-48.8 qtz-ser-sulph-phy1, F1 60°	1.2	U1111		48.8	1.6	6.79	13.74	3.18			10.864	21.984	5.088	
		50.3 Very broken, partly vuggy and powdery, especially between 49.9-50.3 48.8-49.9 Hard, silicified, F1 45-50° 49.9-50.3 Soft, vuggy, powdery, F1 70° Overall Py 60, PbZn 12-14	1.3	U1112		50.3	1.5	7.56	12.16	2.85			11.34	18.24	4.275	
		51.8 No core; driller's note mud seam and air pocket	0/1.5			51.8										
		53.3 Broken powdery core, py 60, PbZn 18?	0.3	U1113		53.3	1.5	7.99	10.07	4.81			11.985	15.105	7.215	
		54.9 Variable, Py 60, PbZn 12-14 53.3-54.3 Silicified with barite, F1 70-80° -54.9 Vuggy, broken F1 80-90°	0.8	U1114		54.9	1.6	8.85	14.60	3.77			14.16	23.36	6.032	
			WT.AV.		44.1	54.9	10.8	6.84	11.19	3.164 (108.5)			73.934	120.936	34.176	
		NOTE: SAMPLED FROM BLOCK TO BLOCK DUE TO UNEVEN														

COPE RECOVERY



# DIAMOND DRILL RECORD

LOGGED BY A. M. de Quadros

PROPERTY GRUM JOINT VENTURE - UNDERGROUND

LATITUDE 10 77' 5" N (5 N/E RAMP) BEARING OF HOLE 110° 13' 11"

DEPARTURE 7691.728 (12W X-CUT) DIP OF HOLE +3°

ELEVATION 1154.372m DIP TESTS NONE

STARTED 1 DEC 1975

COMPLETED 3 DEC 1975

Proposed:  
DEPTH Ultimate: 62.5m

D.D.H. No. 45-111 PAGE 1/5

CLAIM No. \_\_\_\_\_



DIRECTION AND DISTANCE FROM

NE. CLAIM POST

FOOTAGE m		DESCRIPTION	Rec. Est. m	Sample No.	Footage m		Sample Length	Assay					Assay x Feet m			
FROM	TO				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag	
0	9.0	QUARTZ-SULPHIDES Competent, brittle, silicified quartz-sulphides with thin layers of massive sulphides; with minor sericite and graphite; graphite content increases downwards, grading into a quartz-sulphide graphite rock. Though well banded, rock is not fissile, tending to break irregularly, generally at right angles to core axis. Foliation (probably $F_1$ ) well defined by sulphide rich bands. Details: 0-2.0: quartz sulphides; $F_1$ 40-50° Py 40; Pb2u 10-12 - 4.0: as above but more broken; slightly graphitic; $F_1$ 40-50°; Py 40; Pb2u 10-12 - 6.0: as above; Py 40-50; Pb2u 11-12 - 8.0: as above, but more graphitic; 11777 6.0-7.5m $F_1$ 40-50°; 7.5-8.0m $F_1$ 30°; Py 35-40; Pb2u 10-12														
			1.85	U1101	0.0	2.0	2.0	3.98	5.89 <del>5.89</del>	1.62				7.96	11.78	3.24
			1.8	U1102	2.0	4.0	2.0	4.17	4.60	1.59				8.34	9.20	3.18
			1.9	U1103	4.0	6.0	2.0	4.28	6.45 <del>6.50</del>	1.82				8.56	12.9	3.69
			1.9	U1104	6.0	8.0	2.0	4.05	9.40 <del>9.40</del>	1.85				8.10	18.9	5.10

Interval		DESCRIPTION	Recovery	Sample No	Interval		Sample Length	Assay					Assay x Metres			
From	To				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag	
		8.0 - 9.0: as above but very graphitic; Py 40; PbZn 12-14	1.0	U1105	8.0	9.0	1.0	4.09	6.90	1.68			4.09	6.90	1.68	
				<del>U1105</del> WTAV	8.0	9.0	1.0	4.11	6.63	1.7156	(58.8)		37.05	59.68	15.44	
				WTAV	0.0	4.0	4.0	4.07	5.24	0.81	(27.1)		16.30	20.98	3.42	
				WTAV	6.0	9.0	3.0	4.06	8.60	1.794	(61.4)		12.19	25.80	5.38	
9.0	14.0	AND BLEACHED QUARTZ-SERICITE/CHLORITE PHYLLITES. PALE Very broken, highly incompetent rock, very broken with large <del>epidote</del> anhedral crystalloblasts of quartz; very minor pyrite, no trace of PbZn. 8.0-10.7: essentially quartz-sericite phyllite, foliation (F <sub>2</sub> ?) 20-30° to C.A. - 12.2: no core; fault zone? - 14.0: quartz-chlorite phyllite, very broken but partly silicified, especially between 12.2 to 12.8: where recovery total; 12.8-14.0: highly sheared and brecciated.	1.4/1.7	—	9.0	10.7	—									
			0/1.5	—	10.7	12.2	—									
			0.6/0.6	—	12.2	12.8	—									
			0.7/1.2	—	12.8	14.0	—									
4.0	18.8	MASSIVE SULPHIDES VERY BROKEN; <del>with minor arsenopyrite and</del> with minor arsenopyrite and <del>pyrite</del> & chalcopyrite														
		14.0-15.0: very broken, vuggy; brecciated; F <sub>1</sub> 45 Py 30; PbZn 20-25; Q 10	0.8	U1106	14.0	15.0	1.0	9.26	15.0	3.77			9.26	15.0	3.77	
		- 17.3: very broken, vuggy; brecciated; Py 40; PbZn 15- <del>20</del> ; Q (H <sub>2</sub> S) 10-20 F <sub>1</sub> 45	1.5	U1107	15.0	17.3	2.3	3.38	10.46	1.62			7.774	24.058	3.726	



44.1

1.6 — 20.87

1.5 — 22.96

1.6 — 20.53

1.5 — 19.72

50.3

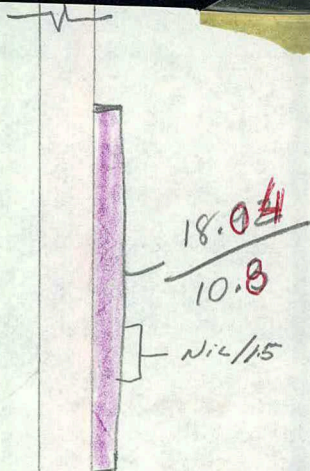
1.5

51.3

1.5 — 18.06

1.6 — 23.45

54.9



Interval		DESCRIPTION	Recovery	Sample NO	Interval		Sample Length	Assay					Assay x metre			
From	To				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag	
44.1	54.9	MASSIVE SULPHIDES Very broken, blocky and variable; grade difficult to estimate due to broken nature. Details:-														
		44.1-45.7: Py 60-70 ; PbZn 6? ; very broken	0.2	U1109	44.1	45.7	1.6	8.35	12.52	4.06			13.36	20.032	6.496	
		- 47.2: Py 60-70 ; PbZn 6-8? ; F <sub>1</sub> ? 50°	0.7	U1110		47.2	1.5	8.15	14.81	3.38			12.225	22.215	5.07	
		- 48.8: Py 60 ; PbZn 11-12 ; 48.6-48.8: quartz-zorite sulphide phyllite, F <sub>1</sub> =60°	1.2	U1111		48.8	1.6	6.79	13.74	3.18			10.864	21.984	5.088	
		- 50.3: very broken, partly luggy and powdery especially between 49.9-50.3. 48.8- <del>50.3</del> <sup>49.9</sup> : hard, silicified; F <sub>2</sub> 45-50° 49.9-50.3: soft luggy, powdery; F <sub>1</sub> 70° Overall, Py 60 ; PbZn 12-14	1.3	U1112		50.3	1.5	7.56	12.16	2.85			11.34	18.24	4.275	
		- 51.8: <u>no core</u> ; <u>driller's note mud seam and air pocket</u>	0/1.5	-	50.3	51.8	-									
		- 53.3: broken powdery core; Py 60; PbZn 18?	0.3	U1113		53.3	1.5	7.99	10.07	4.81			11.985	15.105	7.215	
		- 54.9: variable ; Py 60 ; PbZn 12-14	0.8	U1114		54.9	1.6	8.85	14.60	3.77			14.16	23.36	6.032	
		53.3-54.3: silicified; with baryte, F <sub>0</sub> 70-80° - 54.9: luggy, broken, F <sub>0</sub> 80-90°		WT. Au	44.1	54.9	10.8	6.84	11.19	3.164 (108.5)			13.934	120.936	34.176	
		NOTE: SAMPLED FROM BLOCK TO BLOCK DUE TO UNSTABLE CORE RECOVERY.														

Plot

Plot



calc OK 9.6  
Typed LRP

# DIAMOND DRILL RECORD

LOGGED BY A M DEQUADROS

PROPERTY GRUM JOINT VENTURE - UNDERGROUND

D.D.H. No. 95-112 PAGE 1

LATITUDE ~~1073.128N~~ ✓

BEARING OF HOLE 056° 20' 02" E ✓

STARTED 4 DEC 1945

DEPARTURE ~~1611.53E~~ ✓

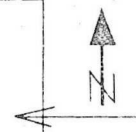
DIP OF HOLE +3° ✓

COMPLETED 5 DEC 1945

ELEVATION ~~1154.65m~~  
1154.66 ✓

DIP TESTS none

LENGTH Proposed:  
DEPTH Ultimate: 50.3m  
H.D. = 50.2  
V.D. = +2.63 (1157.29 EL.)



CLAIM No. \_\_\_\_\_

DIRECTION AND DISTANCE FROM

NE. CLAIM POST

FOOTAGE m		DESCRIPTION	Rec. Ft. m	Sample No.	Footage m		Sample Length	Assay					Assay x Feet m				
FROM	TO				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag		
0	8.4	QUARTZ-SULPHIDES ± GRAPHITE ± SERICITE. Banded, poorly foliated <sup>non-</sup> inhomogeneous; generally competent, hard and brittle due to silicification; with thin (0.1-0.15 m) bands of nearly massive sulphides. With baryte? Generally graphite content increases with depth. Details:															
	0-1.2	Py 30; PbZn 6-8; foliation (F <sub>2</sub> ?) 30-40°	1.1	U1115	0	1.2	1.2	473	763	1.85	✓		5.676	9.156	2.22		
	-2.5	Py 20; PbZn 8-10; foliation 50°	1.1	U1116		2.5	1.3	420	664	1.65	✓		5.46	8.632	2.145		
	1.2-1.6	Very broken, heavy core loss															
	-3.4	Py 15; PbZn 2-3 overall; foliation 45°	0.9	U1117		3.4	0.9	450	570	1.65	✓		4.05	5.13	1.485		
	2.7-3.0	quartz sericite ± chlorite phyllite; bleached, barren and very broken															
	-4.4	Py 10; PbZn 10; moderate foliation 30°	1.0	U1118		4.4	1.0	330	781	1.41	✓		3.3	7.81	1.41		
	-6.2	Py 10; PbZn 14; foliation variable 10°-50°	1.7	U1119		6.2	1.8	518	977	2.47	✓		9.324	17.586	4.446		
	-8.4	Py 10; PbZn 4-6; graphitic; foliation 30°	2.0	U1120		8.4	2.2	300	698	1.47	✓		6.6	15.356	3.234		
	6.4-6.7	very broken; F <sub>1</sub> 10°		WT. AV.	0	8.4	8.4	41	2.58	1.78	(61.9% mt.)		34.410	63.670	14.94		plot
	7.8-8.4	very broken, fragmental		WT. AV.	2.5	6.2	3.7	4.50	8.25	1.98	(68.1)		16.674	30.526	1.341		plot

kind of fragments & gms









# DIAMOND DRILL RECORD

LOGGED BY A.M. de Quadros

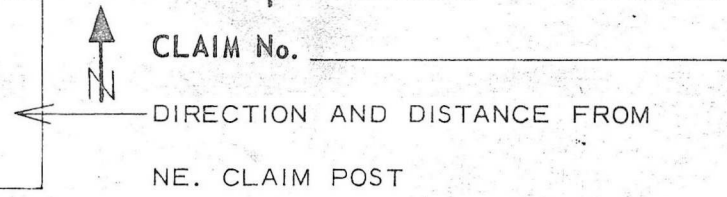
PROPERTY GRUM JOINT VENTURE - UNDERGROUND

D.D.H. No. Y5-U3 PAGE 1

LATITUDE 10717.123 (LINE GRID) BEARING OF HOLE S 45° 03' 23" W. STARTED 6 DEC 1995

CLAIM No. \_\_\_\_\_

DEPARTURE 7628.660 (LINE GRID) DIP OF HOLE 225° 03' 23" Azim. 225° 03' 23" COMPLETED 10 DEC 1995



ELEVATION 1155.324 DIP TESTS NONE

LENGTH Proposed: \_\_\_\_\_  
 DEPTH Ultimate: 82.3m  
 H.D. = 67.42"  
 V.D. = 47.21

FOOTAGE m		DESCRIPTION	Rec. Ft. m	Sample No.	Footage m		Sample Length	Assay					Assay x Feet m			
FROM	TO				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag	
0	14.3	QUARTZ-SULPHIDE ± GRAPHITE ROCK Competent, hard, silicified, often somewhat cherty appearance. Well banded and foliated, but poorly fissile. Two moderately well developed foliations seen. Minor white quartz lenses. Details: 0-1.0: broken; heavy core loss; F <sub>2</sub> 45°; F <sub>1</sub> subparallel to core axis. Py 20; PbZn 46. -3.0: competent; F <sub>1</sub> well developed, generally 0-20° but transposed by latter F <sub>2</sub> . F <sub>2</sub> generally 45°, often outlined by sphalerite rich bands. Py 15; PbZn 4-6 -5.0: as above, becoming more pyritic -7.0: as above, becoming more pyritic from 6.8-7.0 where foliation (F <sub>2</sub> ) becomes 50-60° to C.A. -7.8: attenuating bands of massive pyrite and phyllite; only visible foliation 30° to c.a. up to 50% white quartz from 7.5-7.8. Minor chalcopyrite. Py 30; PbZn 2														
			0.4	U1121	0	1.0	1.0	1.88	2.10	0.68	✓		1.88	2.10	0.68	
			2.0	U1122		3.0	2.0	3.30	5.25	1.15	✓		6.6	10.5	2.3	
			2.0	U1123		5.0	2.0	3.68	5.00	1.06	✓		7.36	10.0	2.12	
			2.0	U1124		7.0	2.0	5.15	6.35	1.82	✓		10.30	12.70	3.64	
			0.8	U1125		7.8	0.8	3.98	4.00	1.59	✓		3.184	3.20	1.272	
				WtAu	1.0	5.0	4.0	3.49	5.125	1.105	(37.8)		13.96	20.50	4.42	
				WtAu	0	5.0	5.0	3.17	4.52	1.02	(35)		15.84	22.60	5.10	

75-03

0

$$\frac{3^+}{1.0^m}$$

$$\frac{8.62}{4^m}$$

5.0<sup>m</sup>

$$\frac{10.12}{11.0^m}$$

$$\frac{11.31}{3.9^m}$$

8.9

$$\frac{3.21}{5.4^m}$$

13.0

$$\frac{18.17}{3^m}$$

14.3

$$\frac{29.35}{1.7^m}$$

16.0

~~Handwritten scribble~~





Interval		DESCRIPTION	Recovery	Sample No	Interval		Sample Length	Assay					Assay x				
From	To				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag		
<del>32.0</del>		32.0-32.3 : chloritic, F <sub>2</sub> 45° 39.1 - 40.1 : chloritic; F <sub>2</sub> 65-70° - 40.1 : sericitic; sericite increasing with height. F <sub>2</sub> 65°	8.0/8.1		32.0	40.1											
40.1	42.7	QUARTZ BLEACHED, SERICITE-CHLORITE PHYLITE LT. GREENISH GREY Very competent, silicified, but fissile; F <sub>2</sub> 45-50° 40.1-40.7: very sericitic - 41.7 : chlorite; F <sub>2</sub> 45°; trace Py, Po? - 42.7 : chloritic, ± pyrite (2-5%); poorly foliated; F <sub>2</sub> 65° 42.6-42.7: very quartz - breccia? with chalcopyrite		REF 25/26	40.1	42.7	—										
42.7	53.5	MIXED QUARTZ-SULPHIDES AND MASSIVE SULPHIDES. Generally competent; silicified, moderately foliated; trace Chalcopyrite															
	52.8	42.7-43.5: hard quartz sulphide; Py 30-40; PbZn 5-6 F <sub>2</sub> 45°. Minor Barites? <del>Trace Chalcopyrite</del>	0.8	U1130	42.7	43.5	0.8	7.95	6.82	3.00	✓		6.36	5.456	2.40		
		-43.5 : massive sulphide ± minor quartz. F <sub>2</sub> 45° competent, except broken 45.3-45.5. Py 60-70; PbZn 12-13. trace Po and Magnetite.	1.9	U1131		45.5	2.0	6.32 5.00	5.00 6.71	2.76 2.65	✓		12.64	10.00	5.52		
							0.8	5.80	6.41		(14.2)		16.36	18.80	7.70		

75-03

11.1

4

2.7 m

0.8

14.77

6

8

10

12

13

15.03

2.8 m

2

11.81<sup>32</sup>

3.4

45.5

46.2

11.71

12.3.41

6.3 m

2

1.5

17.92

49.0 m

2.8

3.25

3.41

3.8 m

1.0

3.77

52.8 m

10.8



Interval		DESCRIPTION	Recovery	Sample No	Interval		Sample Length	Assay					Assay x		
From	To				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag
	45.5-47.5	as above ; Py 70 ; Pb2u 10-11	2.0	U1132	45.5	47.5	2.0	6.71	5.00	2.65	✓		13.42	10.0	5.30
	-49.0	mixed quartz sulphides ± bands of massive sulphide; F <sub>2</sub> 45°; competent.		<del>WT.Au</del>	<del>42.7</del>	<del>49.0</del>	<del>6.3</del>						<del>11.75</del>	<del>10.16</del>	<del>11.00</del>
					(46.2 ~ 47.5)	(1.3)							8.723	6.50	3.445
		Py 40 ; Pb2u 6-7	1.5	U1133		49.0	1.5	11.40	6.32	3.72	✓		17.1	9.78	5.58
				<del>WT.Au</del>	<del>42.7</del>	<del>49.0</del>	<del>6.3</del>	<del>7.86</del>	<del>5.59</del>	<del>2.98</del>	(102.3)		<del>49.52</del>	<del>35.236</del>	<del>18.80</del>
				<del>WT.Au</del>	<del>46.2</del>	<del>49.0</del>	<del>2.8</del>	<del>9.22</del>	<del>5.81</del>	<del>3.22</del>	(110.4)		<del>25.823</del>	<del>16.28</del>	<del>9.025</del>
		Py 40 ; Pb2u 6-7													
	-51.8	quartz-chlorite-sulphide; competent, F <sub>2</sub> 45-50° Py 10-15, Pb2u 2-3	2.8	U1134		51.8	2.8	1.73	1.55	0.59	✓		4.844	4.39	1.652
	-52.8	as above; Py 30; Pb2u 4-5	1.0	U1134 <sup>5</sup>		52.8	1.0	1.95	1.82	0.74	✓		1.95	1.82	0.74
				<del>WT.Au</del>	<del>49.0</del>	<del>52.8</del>	<del>3.8</del>	<del>1.78</del>	<del>1.62</del>	<del>0.629</del>	(21.6)		<del>6.794</del>	<del>6.16</del>	<del>2.392</del>
	-53.5	quartz-chlorite-sulphide; F <sub>2</sub> 45°; Py 15; Pb2u 1-2	0.7/0.7	—		53.5	—								
				<del>WT.Au</del>	<del>45.5</del>	<del>49.0</del>	<del>3.5</del>	<del>8.72</del>	<del>5.65</del>	<del>3.11</del>	(106.5)		<del>30.52</del>	<del>19.78</del>	<del>10.58</del>
53.5	63.2	QUARTZ-SERICITE PHYLLITE													
		Thinly foliated and banded; fissile, but generally competent. somewhat altered. F <sub>2</sub> foliation at 60° to core axis, but often folded in kink or base folds about axes at right angles to c.a. Minor fractures infilled with quartz and druse calcite. Minor Py and Po in blebs													
		53.5-57.4: competent ; F <sub>2</sub> 60°	3.9/3.9		53.5	57.4									
		-59.8: very fissile, broken, F <sub>2</sub> 65-70°													
		-62.5: very fissile, broken, ± graphite; F <sub>2</sub> 65-70°	4.8/5.1			62.5									
		-62.7: white quartz	0.2/0.2			62.7									
		-63.2: GRAPHITE-PHYLLITE, very broken, F <sub>2</sub> 70°	0.4/0.5			63.2									

LESLEY

Please type WT.Au  
 @ bottom of paragraph.  
 section 42.7-53.8<sup>m</sup>  
 Please do all WT.Au likewise.

Interval		DESCRIPTION	Recovery	Sample No	Interval		Sample Length	Assay					Assay x			
From	To				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag	
63.2	76.1	BLEACHED QUARTZ-SERICITE-PHYLLITE ± SULPHIDES Very mixed, generally incompetent unit with narrow zones of sulphides; details below: 63.2-64.2: Very broken with minor py, po and Pb <sub>2</sub> S; cerussite? xab in fractures	0.8/1.0		63.2	64.2										
		-64.7: quartz-sulphide; Py 40; Pb <sub>2</sub> S 4-6; Po 10-15; F <sub>2</sub> ? 70° to c.a. silicified, competent	0.5/0.5			64.7										
		-65.6: very broken, incompetent bleached quartz-sericite-kaolin-phyllite; trace sulphides	0.7/0.9			65.6										
		-66.0: quartz-sulphide; Py 30; Pb <sub>2</sub> S 6-8 competent, two foliations - F <sub>1</sub> ? 30°; F <sub>2</sub> ? 60°	0.4/0.4	U1601	64.0	65.4	1.4	1.00	1.30	15.09 <sup>gm</sup> /t		1.40	1.82	21.13		
		-66.4: bleached quartz-sericite-phyllite ± minor sulphides; F <sub>2</sub> 70°; silicified.	0.4/0.4	U1602		66.7	1.3	7.04	5.65	88.80		9.15	7.35	115.44		
		-66.7: massive sulphide; Py 60; Pb <sub>2</sub> S 10-12; upper + lower contact at 70°; competent	0.3/0.3			66.7										
		-67.4: broken bleached sericite-kaolin phyllite F <sub>2</sub> 60-70°; incompetent	0.5/0.7			67.4										
		-67.5: white quartz														
		-68.0: bleached quartz-sericite-kaolin phyllite; incompetent, broken; F <sub>2</sub> 70°	0.5/0.6			68.0										
		-69.9: white quartz, broken	1.6/1.9			69.9										
		-70.1: massive sulphide; Py 60-70; Pb <sub>2</sub> S 14	0.2/0.2			70.1										

3.5% Est. @ 64.2-66.7"

7.5% Est. @ 69.9-70.6"



# DIAMOND DRILL RECORD

LOGGED BY MEL DEQUADROS

WMS  
Wt. Calc. at 32  
Typed up

PROPERTY GRUM JOINT VENTURE - UNDERGROUND

LATITUDE 10,720.193

<sup>LINE 500</sup>  
(3N) BEARING OF HOLE <sup>235° 34' 10"</sup> (S. 55° 37' 10" W)

STARTED \_\_\_\_\_

DEPARTURE 7631.532

(Y2W) DIP OF HOLE + 76°

COMPLETED \_\_\_\_\_

ELEVATION 1155.616

DIP TESTS \_\_\_\_\_

Proposed: \_\_\_\_\_  
DEPTH Ultimate: \_\_\_\_\_

D.D.H. No. 95-U4 PAGE 1



CLAIM No. \_\_\_\_\_

DIRECTION AND DISTANCE FROM \_\_\_\_\_

NE. CLAIM POST \_\_\_\_\_

metres

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		
0	15.5	QUARTZ-SULPHIDE ± GRAPHITE PHYLLITE															
		Competent, hard and brittle; silicified and partly altered.	15.0	—	0	15.5	—	3-5% PbZn, Est.									
		F <sub>2</sub> well developed with parallel parting; F <sub>2</sub> 60-65°	10.6		0	0.6		4 PbZn, Est.									
		F <sub>1</sub> seen, very folded and contorted, probably average	16.3		6.9			" " " "									
		generally parallel to core axis. With minor		U1603	10.6	3.7	2.98	4.95	40.46	44.1	7.93	11.03	18.32	149.7			
		quartz veins, contacts of which are about 30° to c.a.		4	14.2	3.6	2.68	4.63	38.40		7.31	9.65	16.67	138.2			
		New fractures with minor dislocations parallel to		5	14.9	0.7	1.13	2.10	19.20		3.23	.79	1.47	13.4			
		core axes - these are now healed. Overall		6	15.5	0.6	2.40	3.80	39.43		6.20	1.44	2.28	23.7			
		Pg 15-20%, PbZn 3-5; minor thin layers		Wt. Av.	6.9	15.5	8.6	2.66	4.50	37.9	7.167	22.91	38.74	287.9			
		of up to 0.05 m may average 8-10% PbZn.		Wt. Av.	6.9	14.2	7.3	2.83	4.79	38.4		20.68	34.99	287.9			
15.5	19.0	MASSIVE SULPHIDE															
		Competent hard, partly silicified; foliation 80-90° to c.a;															
		lower contact at 90° to c.a.															
		15.5-17.5: Pg 60; PbZn 18-20; Q 10	18	U1151	15.5	17.5	2.0	10.31	17.51	4.47		20.62	35.02	8.94			
		-19.0: Pg 70; PbZn 15+; vuggy and coarser	1.5	U1152		19.0	1.5	9.81	17.25	4.21		14.715	25.875	6.315			
		than above		WT. Av.	15.5	19.0	3.5	10.09	17.39	4.358 (149.4)		35.335	60.895	15.255			



Interval		DESCRIPTION	Recovery	Sample No	Interval		Sample Length	Assay					Assay x			
From	To				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag	
44.7	45.7	BLEACHED QUARTZ SERICITE PHYLITE LT GREY Competent, hard, silicified, with minor (0.05m) lenses of massive pyrite and pyrrhotite. Po+Py also as blbs. <u>Po 5; Py 15. F<sub>2</sub> 80°.</u>	1.0/1.0	—	44.7	45.7	—									
<del>45.7</del>	<del>46.2</del>															
45.7	46.2	QUARTZ SULPHIDE Gradational from unit above to unit below. Hard, silicified, competent. With graphite and magnetite. F <sub>2</sub> 70-80°. Py 40; Mg 10; PbZn 4-6 <sup>47</sup>	0.5	U1153	45.7	46.2	0.5	2.70	2.50	0.88	✓		1.35	1.25	0.44	
46.2	48.7	MASSIVE SULPHIDE Competent well foliated and banded. Foliation 70° to core axis. 46.2-47.8: Py 70; PbZn 10-11; F <sub>2</sub> 60-70° <sup>47</sup> -48.7: Py 40; Po 20; PbZn 8?; F <sub>2</sub> 70-80° <sup>63</sup>	1.6	U1154	46.2	47.8	1.6	9.70	6.72	3.68	✓		15.52	10.752	5.888	
<del>49.8</del>				0.9	U1155		48.7	0.9	2.25	1.49	0.80	✓		2.025	1.341	0.72
48.7	53.3	BLEACHED QUARTZ-SERICITE PHYLITE LT GREY Incompetent and altered, with numerous silicified tension fractures. Has graphitic layer up to 0.1m wide. 52.4-53.3: Very broken and pebbly. F <sub>2</sub> 70-80°. Banded with <sup>unit</sup> above at 35°.	3.6/4.6	—	48.7	53.3	—									
				WT. Av.	45.7	48.7	3.0	6.29	4.44	2.349	(80.5)		18.895	13.343	7.048	
53.3		END OF HOLE														

plot

plot



Interval		DESCRIPTION	Recovery	Sample No	Interval		Sample Length	Assay					Assay x				
From	To				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag		
	19.8-21.5	bleached quartz sericite phyllite; competent banded; Py 10; trace PbZn; f. 30°	6.0/6.1		19.8	25.9											
			1.5/1.5			27.4											
	-23.3	white quartz, broken															
	-25.9	bleached quartz sericite phyllite; trace chlorite and fuchsite; competent. Py 10-12; PbZn 1-2; f. 80-90°	1/2.6		23.3	25.9					1-2 Pb Zn, Est.						
	-27.4	sheared quartz-fuchsite ± sericite ± chlorite; Py 5; PbZn 2; f. 80°	1/1.5		25.9	27.4					2 Pb Zn, Est.						
27.4	34.0	MASSIVE SULPHIDES															
	<del>27.4-28.4</del>																
	27.4-28.4	quartz sulphide, very broken (pebbly) estimate - Py 10?, PbZn 3%	0.2/1.0		27.4	28.4					3 Pb Zn, Est.						
				U1607	27.4	28.4	1.0	2.70	3.88	48.34	µm						
	-30.4	massive sulphide; competent. Py 70; PbZn 8-9%; foliation 70°	2.0	U1137	28.4	30.4	2.0	6.03	11.86	2.24	gr	12.06	23.72	4.48			
	-30.6	quartz sulphide, broken; Py 20; PbZn 4-6	0.7	U1138	30.4	32.4	2.0	1.55	2.58	0.94		3.10	5.16	1.88			
	-30.9	sheared quartz fuchsite; f. 70°; barren															
	-32.4	massive sulphide; Py 70; PbZn 3% competent															
	-34.0	massive sulphide; broken, cones, vuggy. Py 60; PbZn 12% contacts at 70°	2.4	U1139	32.4	34.0	1.6	4.80	10.85	2.38		7.68	17.36	3.808			
	-34.9	bleached quartz sericite phyllite; competent		Wt. Av	28.4	34.0	5.6	4.07	8.25	1.816	(62.2)	22.84	46.24	10.768			

Interval		DESCRIPTION	Recovery	Sample No	Interval		Sample Length	Assay					Assay x			
From	To				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag	
		1 shelled competent; f <sub>2</sub> 80-80°	0.5/0.7	11	24.0	24.9	1.4									
34.0	54.2	QUARTZ-SULPHIDES ± MASSIVE SULPHIDES AND BLEACHED QUARTZ SERICITE PHYLLITES														
		Mixed unit, generally competent and silicified. Details:-														
		34.0-34.9: bleached quartz-sericite-chlorite phyllite; sheared and incompetent; f <sub>2</sub> 80-30°	0.5/0.3	—	34.0	34.9	—									
		- 35.3: massive sulphide; Py 70; PbZn 4-6 f <sub>2</sub> 80°														
		- 35.6: quartz-sulphide; Py 30; PbZn trace	2.8	U1140	34.1	37.7	2.8	3.53	6.72	1.68	✓		9.884	18.816	4.704	
		- 35.9: quartz-sulphide; Py 50; PbZn trace														
		- 36.2: " " Py 20; PbZn trace		Wt. Av.	28.4	37.7	9.3	3.51	6.99	1.599	(54.8)		32.724	65.056	14.872	
		- 36.6: massive sulphide; Py 60-70; PbZn 3?														
		- 37.7: quartz-sulphide; Py 40; PbZn 4? f <sub>2</sub> 80-30°; minor pyrite.														
		- 40.5: bleached quartz-sericite-chlorite phyllite competent; f <sub>2</sub> 80° Py 2.5; PbZn trace	2.8/2.8	—		40.5	—					Trace PbZn, Est.				
		- 45.3: quartz-barytes-sulphide; competent and hard; well banded f <sub>2</sub> ? 40° to c.a.	5.4/5.4			45.9		2-3				Est.				
				U1608	40.5	43.8	3.3	2.95	5.93	47.31	8/MT		9.735	19.569	150.123	
				9		44.6	0.8	3.40	4.80	130.97	"		2.720	9.940	104.776	
				U1610		46.4	1.8	2.30	4.10	34.29	"					
				U1611		48.8	2.4	1.43	3.53	24.34	"					
		P <sub>2</sub> 30-40; PbZn 2-3	3.0/3.0													
		- 48.9: quartz-barytes-sulphide-graphite; competent and silicified; foliation variable	8.4/8.4	—		48.9	—					Trace PbZn, Est.				
		low 30-50°; average 45°; Py 30; PbZn trace		Wt. Av.	40.5	44.6	4.1	3.04	5.71	63.6	g/MT		12.455	23.409	260.899	





Interval		DESCRIPTION	Recovery	Sample No	Interval		Sample Length	Assay					Assay x					
From	To				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag			
91.4	95.6	QUARTZ-CHLORITE PHYLLITE lt green Well banded and foliated; fissile. $F_2$ 80-90°, $\tau$ minor sericitic bands & $F_1$ seen as light folds with horizontal axes. Massive Pyrrhotite at 94.2-94.3; contact 30°	4.1 / 4.2		91.4	95.6												
95.6	99.1	QUARTZ-SERICITE PHYLLITE Compact well foliated, fissile, $F_2$ 80-90°	3.5 / 3.5		95.6	99.1												
99.1		END OF HOLE																
		<p>Notes: 1) Hole actually scheduled for 130m to intersect further below massive pyrite zone but as the hole caved in around 81.0 - 84.0, hole was stopped. No missed intersection will be drilled off from IN (at 2NE Ramp / 72W d X-CUT) <i>difficultly</i>.</p> <p>2) One Spray-Sun test taken.</p> <p>3) Hole making slight amount of water.</p>																

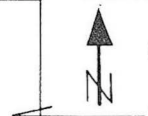
# DIAMOND DRILL RECORD

LOGGED BY MEL DEQUADROS

PROPERTY GRUM JOINT VENTURE - UNDERGROUND

D.D.H. No. Y5-UG PAGE 1

LATITUDE 10719.913 <sup>LINE GRID</sup> BEARING OF HOLE (3N) (N.45° 00' 00" E) STARTED



CLAIM No. \_\_\_\_\_

DEPARTURE 7632.349 <sup>(12W)</sup> DIP OF HOLE +80° COMPLETED 19 DEC 1975

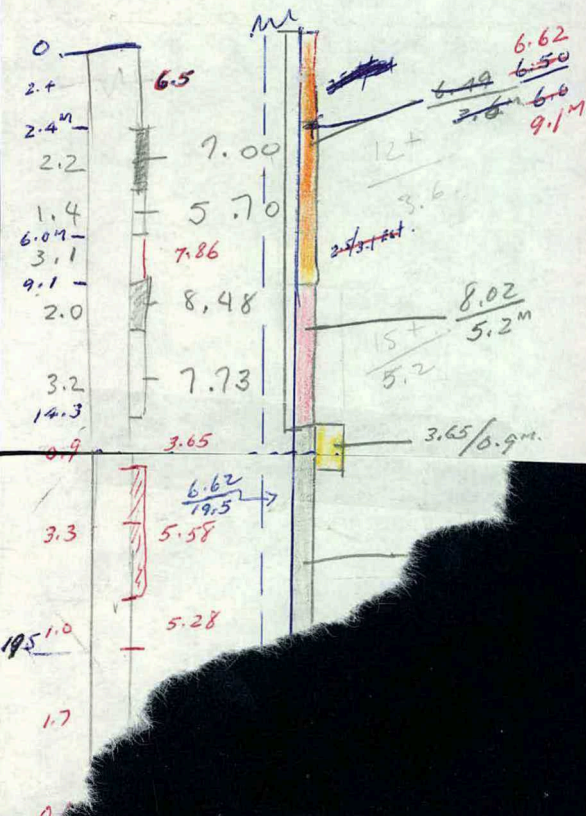
DIRECTION AND DISTANCE FROM

ELEVATION 1155-600 DIP TESTS NONE DEPTH Ultimate: 36.6 m

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		
0	21.8	QUARTZ-SULPHIDE-GRAPHITE PHYLLITE DEGREE Competent, hard and silicified but brittle, often breaking with sharp edges. Well developed F <sub>2</sub> foliation, parallel to a moderately good parting. F <sub>2</sub> 70°. F <sub>1</sub> very convoluted, often tending to be subparallel to core axis. Sulphide content variable, details below:-															
		0-2.4: very broken; Py 10; PbZn 2-4	04/24	U1612	0	2.4	2.4	2.85	3.65	40.46 gm/t. 1.18% EST.		6.84	8.76	2.832			
		-4.6: competent; Py 20; PbZn 8	2.2	U1156	2.4	4.6	2.2	2.30	4.70	0.97		5.06	10.34	2.134			
		-6.0: competent; Py 10; PbZn 3-4	1.4	U1157	4.6	6.0	1.4	1.95	3.75	0.80		2.73	5.25	1.12			
		-9.1: broken; Py 5-8; PbZn 2-3	2.9/31	U1613		9.1	3.1	2.28	4.58	34.29 gm/t. (1.00% EST.)		7.068	14.198	3.10			
		-11.1: competent; Py 15; PbZn 7-8	2.0	U1158	9.1	11.1	2.0	3.08	5.40	1.18		6.16	10.80	2.36			
		-14.3: competent; Py 10-12; PbZn 5-6	3.1	U1159	11.1	14.3	3.2	3.08	4.65	1.03		9.856	14.88	3.296			
		-16.5: competent; Py 10; PbZn 1-2	2.2/22	U1614	15.2	16.5	0.9	0.95	2.79	0.41		0.855	2.43	0.369			
		-18.3: competent; Py 20; PbZn 1-2; well preserved		U1615	15.2	18.3	3.3	1.93	3.65	7.00 EST.		6.369	12.045	3.300			
		F <sub>1</sub> foliation subvertical; F <sub>2</sub> 80-90° to c.a.		WT. Au	0	9.1	9.1	2.38	4.24	1.01 (34.6)		21.698	38.548	9.186			
		-21.8: moderately broken; Py 20; PbZn 3-4. Well banded, F <sub>2</sub> 80°; F <sub>1</sub> poorly preserved.		WT. Au	2.4	6.0	3.6	2.16	4.33	0.904 (30.9)		7.79	15.59	3.254			
				WT. Au	9.1	14.3	5.2	3.08	4.93	1.081 (37.3)		16.016	25.68	5.636			
				WT. Au	0	14.3	14.3	2.64	4.49	1.04 (35.6)		37.714	64.228	14.842			
				WT. Au	18.5	18.5	1.0	1.78	3.50	1.03		1.780	3.50	1.03			
				WT. Au	21.2	21.2	1.7	3.78	6.85	1.85		6.426	11.645	3.145			
				WT. Au	21.8	21.8	0.6	4.83	7.50	2.41		2.898	4.500	1.446			
				WT. Au	14.3	19.5	5.2	1.73	3.46	0.90 (31)		9.004	17.975	4.699			
				WT. Au	19.5	21.8	2.3	4.05	7.02	2. (68.4)		9.324	16.145	4.591			

15-U-6





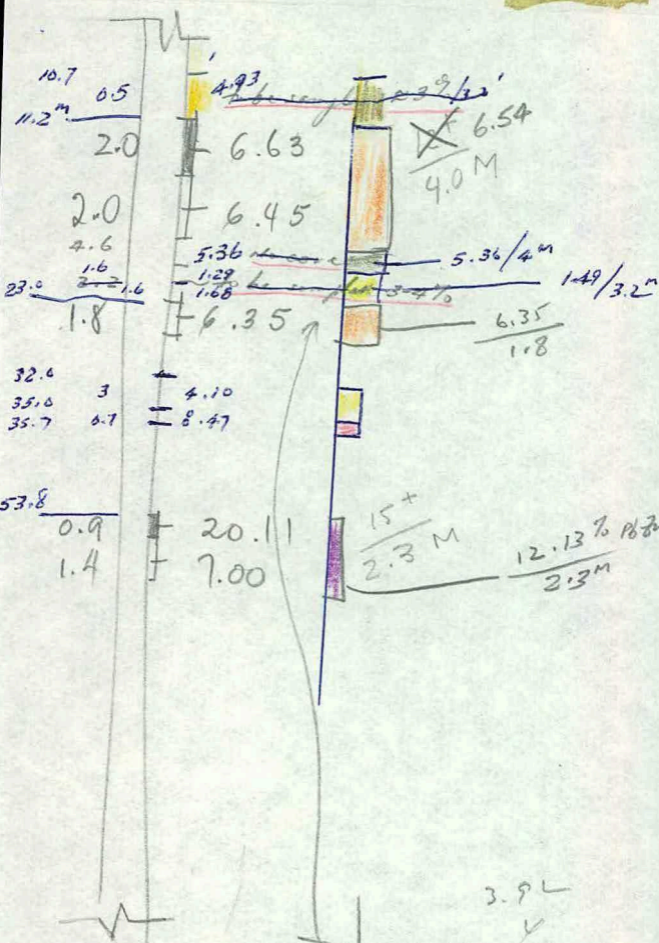




Interval		DESCRIPTION	Recovery	Sample No	Interval		Sample Length	Assay					Assay x					
From	To				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag			
5.3 <del>5.3</del>	6.3	QUARTZ-SULPHIDE - SERICITE ± GRAPHITE PHYLLITE Dark, competent, and silicified except for a very broken zone between 5.6-5.9. F <sub>2</sub> poorly developed, 60-70° to core axis. F <sub>1</sub> highly contorted, 30° to c.a. Py 20; <u>PbZn 8</u>	0.9/1.0		5.3	6.3		8 <sup>PbZn</sup>	Est.									
6.3	8.0	MIXED WHITE QUARTZ AND BLEACHED QUARTZ - SERICITE PHYLLITES Very mixed and broken unit; white quartz 60%.	1.8/2.7		6.3	8.0												
9.0	25.1	QUARTZ - SERICITE - SULPHIDE PHYLLITE PALE GREY Bleached and mineralised phyllite; silicified, hard and brittle with numerous broken zones. Sulphide content variable. Details below:- 9.0-11.2: very broken; Py 5; <u>PbZn 3</u> -15.2: generally competent; F <sub>2</sub> 80°; Py 15-20; <u>PbZn 6-8</u> -19.8: very broken; almost total core loss -23.0: competent, F <sub>2</sub> 75°; Py 20; <u>PbZn 3-4</u> -24.8: competent, F <sub>2</sub> 70°; Py 20; <u>PbZn 10</u> -25.1: broken; Py 15, <u>PbZn 2</u>			9.0	10.7		N/A PE, Est.										
				U1619		11.2	0.5	3.40	1.53	1.35			1.70	0.77	0.68			
			1.5/2.2	—	9.0	11.2	—	Sample M.S.										
			1.5	U1166	X/2	13.2	2.0	4.65	1.98	1.53			9.30	3.96	3.06			
			1.8	U1167	X/2	15.2	2.0	3.85	2.60 <sup>2.60</sup>	1.47			7.70	5.20	2.99			
			0.4	U1620		19.8	4.6	2.93	2.43	1.32		0	13.48	11.18	6.07			
			3.1	U1621		21.4	1.6	.39	.90	0.26		0	0.62	1.44	0.42			
			3.1	U1622		23.0	7.6	.68	1.00	0.32		35 <sup>PbZn</sup>	0.96	1.60	0.51			
			1.8	U1168		24.8	1.8	2.70	3.65	1.18		0	4.86	6.57	2.124			
			0.2	—		25.1	—											
				WT. Av.		10.7	15.2	4.5	4.16	2.21	1.48	(50.7)	18.70	9.93	6.68			
				WT. Av.		11.2	15.2	4.0	4.25	2.29	1.50	(51.42)	17.00	9.16	6.00			
				WT. Av.		19.8	23.0	3.2	0.54	0.95	0.29	(9.9)						
				WT. Av.		15.2	24.8	9.6	2.08	2.17	0.95	(32.6)	19.92	20.79	9.12			



D.D.A. 75-07



3.9 L

4			
1.6	1.29		
1.6	1.68	4.18 9.0	
1.8	6.35		4.0

9

Interval		DESCRIPTION	Recovery	Sample No	Interval		Sample Length	Assay					Assay x			
From	To				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag	
		37.2-38.1: quartz-sericite sulphide; Py 15, PbZn trace	0.4/0.9		37.2	38.1										
		-39.6: few quartz fragments	0.1/1.5			39.6										
		-48.2: very broken and gougy bleached phyllites	4.2/8.6			48.2										
		-48.8: massive sulphide, vuggy. Py 60; PbZn 20	0.5/0.6			48.8										
		-51.8: grey gouge & rock fragments	1.3/3.0			51.8										
51.8	53.2	ALTERED QUARTZ SERICITE PHYLITE LT GREY Well foliated thinly banded, altered and in parts bleached; good F <sub>1</sub> foliation subparallel to core axis and less well developed F <sub>2</sub> at 45° to core axis 53.1-53.2: very broken and gougy. Incompetent and broken	1.2/1.4		51.8	53.2										
53.2	53.8	QUARTZ-SERICITE-MARIPOSITE ROCK GREEN Competent, schistose; trace sulphides.	0.6/0.6		53.2	53.8										
53.8	54.7	MASSIVE SULPHIDE Coarse, slightly vuggy, brecciated. Py 60; PbZn 13-14	0.8	U1169	53.8	54.7	0.9	7.39	12.72	3.74			6.651	11.448	3.366	
				<u>WPAV</u>	53.8	56.1	2.3	4.71	7.41	2.248	(77.1)		10.851	17.048	5.172	
54.7	56.1	QUARTZ-SULPHIDE BRECCIA Reconcentrated competent and sulfidated; Py 30; PbZn 10?	1.4	U1170	54.7	56.1	1.4	3.00	4.00	1.29			4.200	5.600	1.806	





Interval		DESCRIPTION	Recovery	Sample No	Interval		Sample Length	Assay					Assay x				
From	To				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag		
23.8	40.9	QUARTZ-SERICITE-SULPHIDES + GRAPHITE dk grey Silicified, hard and brittle, generally competent. Small broken zones. In situ															
		23.8-24.8: very broken, heavy core loss; Py 20, PbZn trace -26.0: very competent, graphitic; F <sub>2</sub> 70° Py 25, PbZn 1	0.4 / 1.0			23.8	24.8										
		-27.4: competent, pale grey. Py 30, PbZn 2 -29.0: as above but broken	2.6 / 2.6 1.3 / 1.6														
		-30.5: as above, heavy core loss; F <sub>2</sub> 65° -31.9: as above but competent. Py 20, PbZn 4-6. F <sub>2</sub> 85°	0.2 / 1.5 1.4 / 1.171														
		-32.7: QUARTZ-CHLORITE PHYLLITE, competent, F <sub>2</sub> 30° -33.6: Quartz-sulphide, very competent F <sub>1</sub> , F <sub>2</sub> 80°. Py 20; PbZn 12	0.7 / 0.8														
		-33.9: QUARTZ-CHLORITE PHYLLITE, competent, F <sub>2</sub> 80° -34.2: quartz sulphide, 20 Py 20; PbZn 14; contact $\bar{c}$ above at 45°	1.4 / 0.1172														
		-34.7: QUARTZ-CHLORITE PHYLLITE, competent, F <sub>2</sub> 80° contact $\bar{c}$ above irregular, approx. 45°	0.5 / 0.5														
		-36.7: quartz-sericite-sulphide + graphite, silicified, hard. F <sub>2</sub> 80°. Py 30, PbZn 11	1.9 / 0.1173														

plot

plot

plot

plot

plot

plot

plot



# DIAMOND DRILL RECORD

LOGGED BY J. Paxton

Wt. Av. calc'd.  
By bed = LHP

75-U9

ok 26

PROPERTY Grum Joint Venture - Underground

D.D.H. No. 75-U9 PAGE 1/5

LATITUDE 44° 95' N BEARING OF HOLE N E STARTED \_\_\_\_\_

DEPARTURE 72 W DIP OF HOLE Collar - 55° COMPLETED Dec 30 1975

ELEVATION \_\_\_\_\_ DIP TESTS \_\_\_\_\_ DEPTH Proposed: 60.0  
Ultimate: 64.0  
H.D. = 36.71"



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		
0	2.5	Casing															
2.5	4.5	Bleached Zone Yellow - grey colour. Porous. Contorted F <sub>1</sub> banding. Occasional 2-5 cm bands of quartz-sulphide type presumably following F <sub>1</sub> . Contact at 70°															
4.5	18.0	Quartz Sulphide Grey coloured quartz-graphite-sulphide material interbanded with massive sulphide In places 1-5 cm fragments of the quartz graphite material appear to lie within the massive sulphide. The sulphide bands are complexly folded (F <sub>1</sub> ). Traces of F <sub>2</sub> foliation occur at 75° ± 10°. Occasional small veinlets of Cpy.	13.5	13.5													

~~Start entering core from page 2 of log~~

Interval		DESCRIPTION	Recovery	Sample No	Interval		Sample Length	Assay					Assay x Metres		
From	To				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag
		Quartz-graphite-sulphide, Py 20 Pb-Zn 5	2.0	1178	4.5	6.5	2.0	3.68	395	1.47	/		7.36	7.90	2.94
		" " " " 40 " 8	2.0	9	<del>6.5</del>	8.5	2.0	2.28	320	0.97	/		4.56	6.40	1.94
		" " " " 20 " 5	2.0	80	<del>8.5</del>	10.5	2.0	6.31	325	1.85	/		12.62	6.50	3.70
		" " " " 30 " 5	2.0	1	<del>10.5</del>	12.5	2.0	4.88	7.48	1.53	/		9.76	14.96	3.06
		" " " " 40 " 10	1.8	2	<del>12.5</del>	14.5	2.0	4.05	5.60	1.44	/		8.10	11.20	2.88
		" " " " 50 " 10	2.0	3	<del>14.5</del>	16.5	2.0	3.68	4.75	1.29	/		7.36	9.50	2.58
		" " " " 30 " 10	1.5	1184	<del>16.5</del>	18.0	1.5	3.38	6.92	1.35	/		5.07	10.36	2.025
				WT. AV	4.5	8.5	4.0	2.98	3.57	1.22	(41.8)		11.92	14.30	4.88
				WT. AV	8.5	14.5	6.0	5.08	5.44	1.606	(55.1)		30.48	32.66	9.64
				WT. AV	14.5	18.0	3.5	3.55	5.68	1.38	(47.3)		12.43	19.88	4.83
18.0	22.3	Bleached Sericite	4.3/4.3												
		Pale grey-yellow colour. kaolinized													
		19.0-19.6 quartz sulphide band at 60°													
		1st contact at 50°, 2nd contact at 90°													
22.3	27.0	Quartz Sulphide	4.7/4.7												
		Quartz-graphite-sulphide material													
		Good F <sub>1</sub> banding at 85°. Traces													
		of F <sub>2</sub> foliation 60°-80°													
		Py 10 Pb-Zn 2	2.0	1185	22.3	24.3	2.0	1.83	4.40	0.85	/		3.66	8.50	1.70
		Py 25 Pb-Zn 12	1.7	6	<del>24.3</del>	26.0	1.7	6.11	12.11	2.62	/		10.39	25.59	4.454
		Py 30 Pb-Zn 12	1.0	1187	<del>26.0</del>	27.0	1.0	9.70	12.52	4.09	/		9.70	12.52	4.09
27.0	29.0	Sericite Phyllite	2.0/2.0												
		Soft and friable with several													
		seams of fault gouge. F <sub>2</sub> = 75°													

not  
plot  
plot

plot

plot

Interval		DESCRIPTION	Recovery	Sample No	Interval		Sample Length	Assay					Assay x Metres				
From	To				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag		
29.0	31.0	Massive Sulphide Fine grained, slightly porous Py-Sphalerite mixture with scattered sub angular white rock fragments 1-3 cm. Contacts at 45°	1.8/2.0														
		Py 70 Pb-Zn 15	1.8	1188	29.0	31.0	2.0	7.81	13.69	4.65	/		15.62	27.38	9.30	not	
				Wt. Av.	24.3	31.0	6.7	5.32	9.77	2.663	(91.3)		35.71	65.49	17.844	not	
				Wt. Av.	24.0	27.0	3.0	6.87	13.14	2.932	(100.5)		20.639	39.43	8.799	not	
31.0	32.0	Sericite Phyllite Pale grey colour. F <sub>2</sub> foliation 0° Contains irregular 2-5 cm masses of sulphides. Core ground.	0.5/1.0	U1625 <del>U1626</del>	31.0	32.0	1.0	2.10	2.00	1.03	(35.31)						
32.0	33.0	Bleached Sericite Phyllite Similar to above but kaolinized F <sub>2</sub> = F <sub>1</sub> ? = 70°	1.0/1.0	U1626	32.0	33.0	1.0	2.20	2.98	1.00	(34.29)						
				Wt. Av.	31.0	33.0	2.0	2.15	2.49	1.02	(34.8)						not
33.0	35.1	Sericite Phyllite Grey colour. Strong F <sub>2</sub> at 25° Soft and friable	1.2/2.1														
35.1	36.6	Quartz Sulphide Streaky banding at 45° (F <sub>1</sub> )															
		Py 30° Pb-Zn 12	1.0	1189	35.1	36.6	1.5	4.05	6.42	1.53	/		6.075	9.63	2.295	not	

Interval		DESCRIPTION	Recovery	Sample No	Interval		Sample Length	Assay					Assay x				
From	To				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag		
36.6	39.5	Sericite Phyllite and Gouge Grey friable phyllite $F_2 = 60^\circ$ Several seams of gouge 1-5 cm with indistinct contacts. 37.8-38.1 White quartz															
			12.9		36.6	39.5											
					36.1	38.1		0.1	PZ	Est							
				U1627		39.5	1.4	0.33	1.10	0.12	(4.11)						
39.5	51.2	Massive Sulphides Sericite phyllite interband 39.7-39.9 at $60^\circ$ Porous sulphides with banding at $60^\circ$ Py $60^\circ$ Pb-Zn 10 " " " " " " " " Py $60^\circ$ Pb-Zn 20 Massive sulphide with quartz fragments Py $60^\circ$ Pb-Zn 8 " " " " " " " " Py $60^\circ$ Pb-Zn 10 Porous sulphides with banding at $45^\circ$ Py 70 Pb-Zn 15 " " " " " " " " Py 70 Pb-Zn 20 " " " " " " " " Py 70 Pb-Zn 20 " " " " " " " " Py 70 Pb-Zn 25															
			1.1	1190	39.5	41.1	1.6	7.38	10.69	2.94	/		11.808	17.104	4.704		
			1.2	1	41.1	42.7	1.6	7.34	12.93	3.38	/		12.064	20.688	5.408		
			0.6	2	42.7	44.2	1.5	9.75	14.05	4.91	/		14.625	21.075	7.365		
			1.0	3	44.2	45.4	1.2	3.38	7.23	1.53	/		4.056	8.676	1.836		
			0.7	4	45.4	47.2	1.8	4.80	7.53	2.12	/		8.64	13.554	3.816		
			1.3	5	47.2	48.7	1.5	5.03	6.10	2.18	/		7.545	9.150	3.27		
			1.4	6	48.7	50.3	1.6	6.50	7.84	2.32	/		10.4	12.544	3.712		
			0.8	7	50.3	51.2	0.9	6.58	10.69	3.00	/		5.922	9.621	2.70		
				Wt. Au	39.5	51.2	11.7	6.41	9.60	2.804	(46.1)		75.060	112.412	32.811		
51.2	53.3	Quartz Sulphide Cut by numerous vuggy fractures and faults. Foliation $F_2?$ at $40^\circ$ Py 15 Pb Zn 3															
			1.3	1198	51.2	53.3	2.1	2.25	4.50	1.06	/		4.725	9.45	2.226		

plot

plot

plot









# DIAMOND DRILL RECORD

LOGGED BY J. PAXTON

Wt. Av. Calcul. Typical ok. 26

PROPERTY GRUM JOINT VENTURE

D.D.H. No. 76-U-11 PAGE 1/2

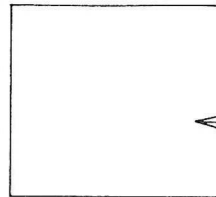
LATITUDE 10781.465 LINE GRID 5+88.6W BEARING OF HOLE (N 26° 10' 20" E.) 26° 10' 20" Azim. STARTED JAN 4/76

DEPARTURE 7694.458 72W DIP OF HOLE -40° COMPLETED JAN 5/76

ELEVATION 1153.724 DIP TESTS NONE DEPTH Proposed: 40  
Ultimate: 24.4

H.D. = 18.69  
V.D. = 15.60 (1138.04 ft.)

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		
0	3.0	Quartz Sulphide Interbanded graphite phyllite and a mixture of quartz-pyrite-sphalerite-galena in bands 2-5cm Bandings at 45°	1.2	3.0													
3.0	5.3	Bleached Quartz-sericite phyllite 5-10mm bands of quartz and foliation (F <sub>1</sub> ?, F <sub>2</sub> ?) at 40°	1.5	5.3													
5.3	9.3	Massive Sulphide Vuggy and porous with good F <sub>1</sub> banding at 45°. Irregular masses of white carbonate? (no fizz with acid) or feldspar 2-3 cm.	11.0	9.3													
			2.0	1214	5.3	7.3	2.0	7.17 <del>2.71</del>	20.57	3.71			14.34	41.02	7.92		
			2.0	1215	7.3	9.3	2.0	3.60	12.04	1.82			7.20	24.08	3.64		
				WT. Av.	5.3	9.3	4.0	5.38	16.27	2.165 (94.8)			21.54	65.10	11.06		



# DIAMOND DRILL RECORD

LOGGED BY J. Paxton

WT. NO. calc'd.  
 Typed UP OK 26

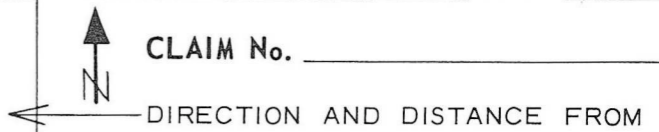
PROPERTY Gram Joint Venture

D.D.H. No. 76-U 12 PAGE 1/3

LATITUDE 10, 685.91 LINE GRID BEARING OF HOLE 43° 47' 59" E STARTED \_\_\_\_\_

CLAIM No. \_\_\_\_\_

DEPARTURE 7600.50 T2W DIP OF HOLE -70° COMPLETED \_\_\_\_\_



ELEVATION 1152.91 DIP TESTS \_\_\_\_\_ DEPTH Proposed: \_\_\_\_\_ Ultimate: 79.8

H.D. = 27.29  
 V.D. = 74.99

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		
0	9.3	Calcite Sericite Phyllite Pale grey-green colour. Strong F <sub>2</sub> foliation. Local small F <sub>1</sub> folds between F <sub>2</sub> planes. F <sub>2</sub> =90° Contact sharp at 90°															
9.3	15.7	Quartz Sericite Graphite Phyllite Dark grey colour. Strong F <sub>2</sub> =90° Fault breccia and traces of gouge 15.2-15.7 Contact with sulphides sharp but irregular															
15.7	28.7	Massive Sulphides ± barite Unbanded sulphide " " " " " "															
			11.1	1216	15.7	16.8	1.1	8.29	15.96	3.15	/		9.119	17.556	3.465		
			1.2	1217	16.8	18.0	1.2	2.85	4.75	1.44	/		3.42	5.70	1.728		
		Brecciated py cemented w/ Py-Pb-Zn	1.0	1218	18.0	18.4	0.4	5.20	6.70	2.38			2.08	2.684	0.952		
		" " " " " "	1.7	1219	18.0	19.0	1.0	<del>2.35</del>	<del>5.20</del>	<del>6.77</del>			5.20	6.71	2.38		
		" " " " " "	1.7	1219	19.0	20.7	1.7	5.78	7.28	2.35	/		9.826	12.376	3.995		
		Quartz and malposite interbanded with short sections of porous sulphides															
			1.6	1220	20.7	22.3	1.6	1.13	3.65	0.53	/		18.08	5.84	0.848		

Interval		DESCRIPTION	Recovery	Sample No	Interval		Sample Length	Assay					Assay x		
From	To				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag
		Porous sulphide w/ banding at 40° Py 70 Pb Zn 20	1.4	1221	22.3	23.7	1.4	5.48	7.50	3.18	✓		7.672	10.50	4.452
		" " " " " " Py 70 Pb Zn 20	1.2	1222	23.7	24.9	1.2	5.98	10.57	2.65	✓		7.176	12.684	3.18
		Sulphide + barite + qtz Ba 30 Py 30 Pb Zn 8	1.2	1223	24.9	26.1	1.2	6.20	10.12	2.41	✓		7.440	12.144	2.892
		" " " Ba 10 Py 60 Pb Zn 8	1.3	1224	26.1	27.4	1.3	3.35	<del>3.35</del> 4.93	1.06	✓		4.615	6.409	1.378
		Porous sulphide Py 70 Pb Zn 8	1.2	1225	27.4	28.7	1.3	3.85	5.30	1.68	✓		5.005	7.15	2.184
					Wt. Au	15.7	18.4	2.7	5.41	9.61	2.276	(78.1)	14.619	25.940	6.145
					Wt. Au	22.3	26.1	3.8	5.86	9.29	2.769	(94.9)	22.288	35.328	10.524
28.7	30.5	Fault Gouge			Wt. Au	15.7	26.1	10.4	4.97	8.03	2.205	(75.6)	51.671	83.510	22.940
		Black, plastic, graphitic			Wt. Au	26.1	28.7	2.6	3.70	5.22	1.37	(46.9)	9.620	13.559	3.862
					Wt. Au	15.7	28.7	13.0	4.71	7.47	2.04	(69.9)	61.29	97.07	26.50
30.5	55.1	Quartz Sericite ± Talc Phyllite Numerous small gouge seams Fault gouge & breccia 46.7-47.2 Strong F <sub>2</sub> @ 38.5 @ 60° parallel to F. F <sub>2</sub> = 50° @ 41, 50° @ 47, 60° @ 51, 10° @ 51.5, 45° @ 52, 20° @ 53 2nd contact @ 60°	16.5/24.6												
55.1	79.8	Sulphide Zone Interbanded quartz and sphalerite Banding at 45° Py 70 Pb-Zn 15	1.3	1226	55.1	56.4	1.3	6.90	6.35	3.53	✓		9.022	8.255	4.589
		" " " " " " Py 70 Pb-Zn 18	1.4	1227	56.4	57.9	1.5	7.06	11.03	2.90	✓		10.59	16.545	4.410
		Quartz masses in massive Py Py 70 Pb-Zn 8	1.4	1228	57.9	59.4	1.5	5.78	8.95	2.21	✓		8.67	13.425	3.315







Interval		DESCRIPTION	Recovery	Sample NO	Interval		Sample Length	Assay					Assay x				
From	To				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag		
50.7	55.4	Quartz Sericite Phyllite Dark grey to black. Broken and incompetent. F <sub>2</sub> = 70° with local contortions. Fault gouge 51.4-52.2	3.5/4.7														
55.4	71.6	Quartz Sulphide Generally banded with local massive section. Minor graphite zones.															
		Quartz-sulphide Banding = 65 Py 20 Pb-Zn 12	1.2	1247	55.2	56.4	1.2	6.61	8.98	2.82	✓		7.932	10.776	3.384		
		" " " = 80 Py 25 Pb-Zn 10	1.5	1248	56.4	57.9	1.5	4.40	5.25	2.06	✓		6.60	7.875	3.09		
		Mainly breccia of angular sulphide fragments in a porous, cherty ground mass. Py 20 Pb-Zn 8	1.1	1249	57.9	59.5	1.6	6.94	8.35	2.88	✓		11.104	13.68	4.608		
		59.5-60.4 Sericite phyllite Py 8 Pb-Zn 2	2.2	1250	59.5	62.5	3.0	3.30	2.95	1.59	✓	✓	10.50	8.85	4.77		not
		60.4-62.5 quartz-sulphides															
		Massive quartz sulphides Py 30 Pb-Zn 2	1.4	1251	62.5	64.0	1.5	0.15	0.53	0.26	✓	✓	0.225	0.795	0.39		not
		" " " Py 30 Pb-Zn 5	1.4	1252	64.0	65.5	1.5	2.85	0.78	1.44	✓		4.275	1.17	2.16		
		" " " Py 30 Pb-Zn 1	1.2	1253	65.5	67.1	1.6	0.20	1.03	0.29	✓		0.32	1.648	0.464		
		" " " plus minor phyllite Py 25 Pb-Zn 1	1.2	1254	67.1	68.6	1.5	0.35	1.70	0.32	✓		0.525	2.55	0.48		
		" " " Py 35 Pb-Zn 5	0.7	1255	68.6	70.1	1.5	4.60	2.03	2.18	✓		6.90	3.045	3.27		
		" " " Py 25 Pb-Zn 5	1.4	1256	70.1	71.6	1.5	3.10	3.48	1.24	✓		4.65	5.22	1.86		
				Wt. Av.	55.2	59.5	4.3	5.96	7.52	2.58	(88.3)	✓	25.626	32.331	11.084		not
				Wt. Av.	64.0	68.6	4.6	1.11	1.17	0.76	(26.1)	✓	5.120	5.368	3.494		not
		(over)		Wt. Av.	68.6	71.6	3.0	3.85	2.76	1.71	(58.6)	✓	11.55	8.265	5.13		not

Interval		DESCRIPTION	Recovery	Sample No	Interval		Sample Length	Assay					Assay x				
From	To				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag		
71.6	77.4	Quartz Sericite Phyllite Medium grey colour. Well foliated at 75°. Small gouge seam 72.7 Soft and broken 75.2 - 75.4 F <sub>1</sub> seems parallel to F <sub>2</sub>	5.8/5.8	<u>WT. Av.</u>	59.5	71.6	12.1	2.26	1.92	1.14	(39.1)				27.395	23.278	13.784
77.4	78.2	Massive Sulphides 1-3 mm quartz grains and fragments in fine grained brown sphalerite groundmass. Py 5 Pb-Zn 25 Contacts sharp at 60°. No banding	<del>0.8/0.8</del>	1257 <u>WT. Av.</u>	77.4	78.2	0.8	11.06	17.37	4.41	✓						
					75.2	78.2	3.0	2.95	4.63	1.18	(40.5)						
78.2	126.4	Quartz Sericite Phyllite ± Graphite Medium grey colour. Well foliated at 75°. Soft and crumbly at 82.0, 82.5. Short bleached zone 87.2-87.5 Fault gouge 88.8-89.0 at 80° Traces of graphite past 100.0 Fault gouge 103.9-104.1 @ 70°(?) Uniform F <sub>2</sub> foliation at 80° cutting F <sub>1</sub> banding which is generally 70° in opposite direction. Spotty calcitic zones	39.8/48.2														

Plot







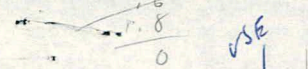




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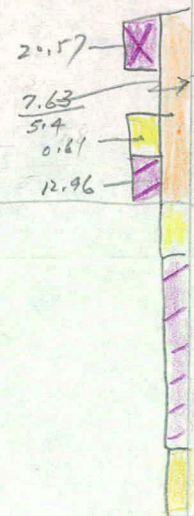
76-014

6.3 1.6 27.18



1  
19.5<sup>m</sup>  
20.1 .6  
21.7 1.6  
23.5 1.8  
24.9 1.4  
26.4 1.1  
27.4 1  
29.1 1.7  
30.3 1.2  
32.3 2  
33.3  
34.0

20.57  
6.00  
9.61  
12.96  
0.55  
13.74  
14.10  
12.57  
2.55



12.1  
12.2  
0.61  
10.96  
0.55  
13.47  
10.81  
13.9  
2.55

36.2  
30.3  
26.4  
3.9

25.9  
19.978  
25.15  
5.824  
10.29  
20.012

M14

37.3<sup>m</sup> 1.1  
1.6  
3  
1.4  
1.3  
2.9 1.6  
7.7 1.3  
7.8  
45.1<sup>m</sup> 0.6

3.21  
16.22  
14.27  
15.44  
15.72  
4.48  
20.20  
17.15

76-014



9.1  
13.75  
7.8<sup>m</sup>  
15.45  
5.9<sup>m</sup>  
4.48  
1.3<sup>m</sup>  
8.48  
1.9<sup>m</sup>











# DIAMOND DRILL RECORD

LOGGED BY CLENN TETU

Jan 17/76

*Typed - UP.*

PROPERTY GRUM JOINT VENTURE - UNDER GROUND

D.D.H. No. 76-015 PAGE 1/15

LATITUDE 10704.13 BEARING OF HOLE 44° 42°20' 65°20' STARTED Jan 12/76

DEPARTURE 7531.34 DIP OF HOLE -60 COMPLETED Jan 16/76

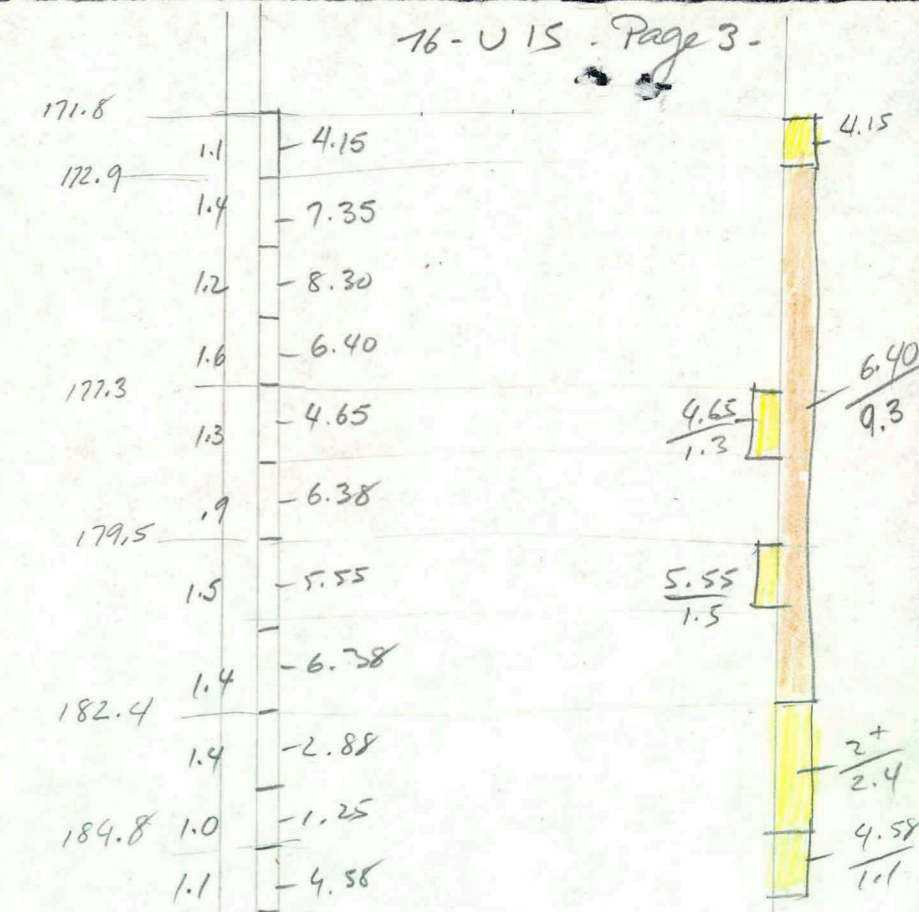
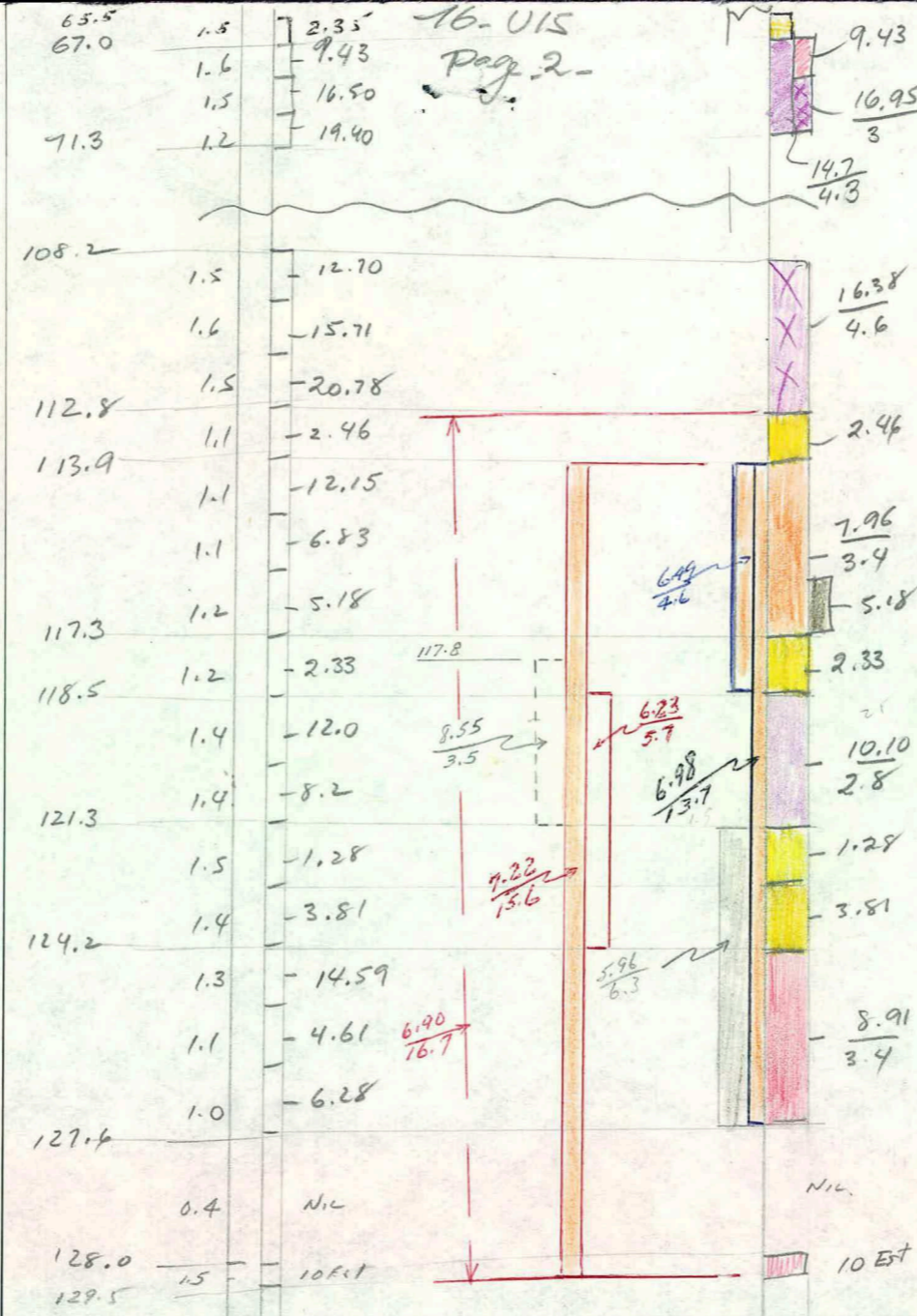
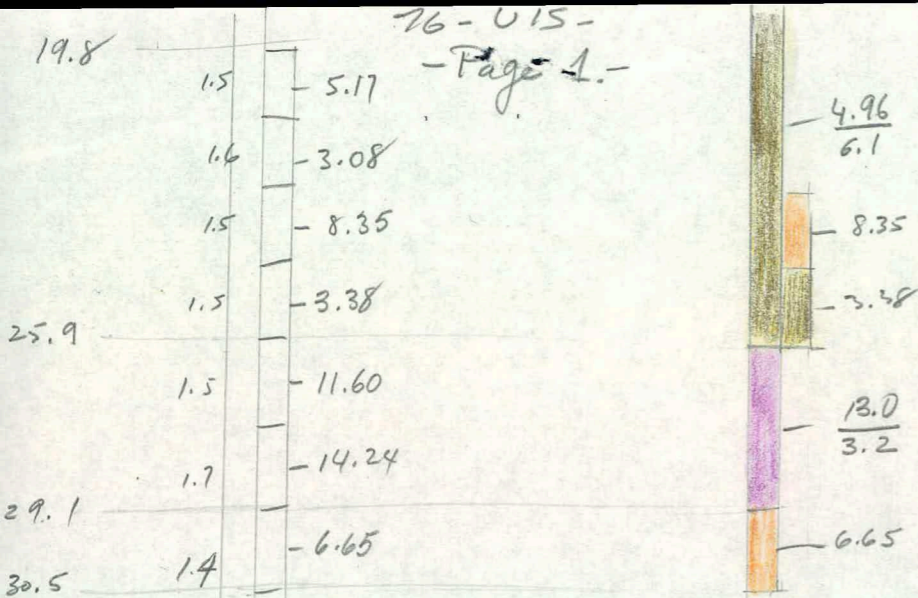
ELEVATION 1166.14 DIP TESTS -68° -74° DEPTH Proposed: 185.9 Ultimate: 185.9

\* Layout Brq + Dip.

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		
0	2.8	Quartz Sulphides ± Graphite ± Sericite core broken, ground, av. 2cm diameter, sulph. bands 75°, py 15, PbZn 6% (?)	0.2 2.8		0	2.8											
2.8	3.9	Bleached Quartz Sericite Phyllite pale yellow-green, locally friable and clayish (Kaoline?), well foliated F <sub>2</sub> -75° parting along F <sub>2</sub> common (av. 3cm wide), qtz veins (av. 1cm) @ 75° common 2.8-3.0 Quartz Sericite, pale grey slight bleaching	0.7 1.1		28	3.9											
3.9	6.1	Quartz Sericite Phyllite dark grey-black, well foliated F <sub>2</sub> -80°, locally tension fract @ 5°, shear zone (4.8-4.9), parting along F <sub>2</sub> common (av. 2cm wide)	1.7 2.2		3.9	6.1											
6.1	11.5	Bleached Quartz <del>Sulp</del> Sericite with Sulphides pale yellow green, sulphides as bands (av. 1cm) with py-po ± gal ± sph ± cpy, sulphides-10%	4.6 5.4		6.1	11.5		Trace	PbZn	Est.							



Interval		DESCRIPTION	Recovery	Sample No	Interval		Sample Length	Assay					Assay x				
From	To				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag		
		well fol - 80°, rare Qtz-veins @ 80° (1 cm wide), rock competent, minor shear zones (av. 3cm wide) @ 7.2, 9.8, 10.1															
		10.5-11.5 as above, broken and fractured	$\frac{0.4}{1.0}$		10.5	11.5											
11.5	12.2	Banded Massive Sulfides strongly broken and fractured, bands @ 40° but variable, minor sericite present, py 30, mag ≈ 17%, PbZn-10	$\frac{0.2}{0.7}$ *		11.5	12.2			13 <sup>10-11</sup>	10	10	10	10	10	10	10	10
12.2	15.5	Quartz-Sericite Phyllite dark grey-black, well foliated 70° locally tension fractures @ 35°, rock generally competent, step folds (13.0-13.1) (13.5-13.6), details below	$\frac{2.7}{3.3}$		12.2	15.5											
		12.2-12.4 as above, sheared	$\frac{0.1}{0.2}$		12.2	12.4											
		<del>15.1</del> 14.8-15.2 as above, shear zone	$\frac{0.1}{0.4}$		14.8	15.2											
15.5	16.7	Bleached Quartz Sericite with Sulfides pale yellow green, upper and lower contacts gradational details below	$\frac{1.2}{1.2}$														
		15.5-16.0 - Bleached quart-sericite, well foliated @ 50° sheared in part															



phot

Interval		DESCRIPTION	Recovery	Sample No	Interval		Sample Length	Assay					Assay x				
From	To				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag		
		16.0-16.3 Banded massive Sulfide bands @ 50°, py 40, mag 2, Zn Pb 6 minor bleach serc. and qtz present. first contact @ 40°															
		16.3-16.7 bleach qtz. serc. phyllite well foliated @ 80°, sheared in part															
16.7	18.3	Quartz-Sercite Phyllite dark grey, well foliated @ 75°, fissile in part	$\frac{1.2}{1.6}$		16.7	18.3											
18.3	19.8	Bleached-Quartz Sercite Phyllite well foliated @ 70°, competent, minor fractures @ 10°, lower contact marked by broken zone 10cm wide, shear zone (18.6-18.7)	$\frac{1.2}{1.5}$		18.3	19.8											
19.8	30.5	Massive Sulfide Zone banding @ 70°, fractures @ 20°, 40°, 70° details below															
		19.8-21.3 as above Py 60, mag 2, Pb Zn 10 broken and fractured, quartz vein (19.9-20.1)	$\frac{0.8}{7.5}$	1278	19.8	21.3	1.5	3.35	1.82	1.53			5.025	2.73	2.295		
		21.3-22.9 as above Py 75, Pb Zn 3	$\frac{0.4}{7.6}$	1279	21.3	22.9	1.6	2.55	0.53	1.15			4.08	0.898	1.84		
		22.9-24.4 as above Py 60, mag 3, Pb Zn 6	$\frac{0.7}{7.5}$	1280	22.9	24.4	1.5	5.35	3.00	2.24			8.025	4.50	3.36		





Interval		DESCRIPTION	Recovery	Sample No	Interval		Sample Length	Assay					Assay x			
From	To				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag	
		pyrite fragments (av. 2cm diameter), F <sub>1</sub> common @ 0°.														
65.4	67.0	Graphite Sericite Phyllite with Sulfides black, mod. foliation 70° (variable and contorted) F <sub>1</sub> av. 10°, sulfides as bands av. 0.5cm Py ± sph ± gal.	<u>1.5</u> 1.6		65.4	67.0										
					65.4	65.5		0.2	PE Est.							
				11628		67.0	1.5	1.15	1.20	0.56	(19.20)		1.725	1.80	0.84	
67.0	71.3	Massive Sulfide Zone bands @ 65°, competent, minor fractures @ 30°, 0°, details below 67.0-68.6 as above Py 25 PbZn 6 (67.4-68.1) - Fushite alt. zone, mod. foliation 0-70° defined in part by qtz-sulfide bands, first contact 30°, second contact 60°	<u>1.6</u> 1.6	1285	67.0	68.6	1.6	4.13	5.30	2.03		0.3 →	1.239 6.608	1.59 8.48	0.609 3.248	P
		68.6-70.1 as above Py 50, PbZn 14 barite 15%, fold nose @ 70.0 axis @ 80°	<u>1.5</u> 1.5	1286	68.6	70.1	1.5	7.28	9.22	4.03			10.92	13.83	6.045	
		70.1-71.3 as above, Py 50, PbZn 8 lower contact @ 15°	<u>1.2</u> 1.2	1287	70.1	71.3	1.2	7.59	11.81	3.82			9.108	14.172	4.584	
71.3	97.5	Quartz-Sericite Graphite Phyllite dark grey, well foliated F <sub>2</sub> -80 (variable) rare fractures @ 30°, 0°; F <sub>1</sub> locally		WT. AN.	68.3	71.3	3.0	7.09	9.86	3.746	(128.4)		21.267	29.592	11.238	P
				" "	67.0	71.3	4.3	6.19	8.48	3.227	(110.6)		26.636	36.482	13.877	P
				" "	65.5	71.3	5.8	4.89	6.60	2.54	(87.)		28.361	38.282	14.717	







Interval		DESCRIPTION	Recovery	Sample No	Interval		Sample Length	Assay					Assay x			
From	To				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag	
		locally banded @ 60°, zone becomes progressively quartz rich near end, fractures @ 90°, 30°, 45°, 5° details below:														
		108.2-109.7 as above Py 25 Pb Zn 12	$\frac{0.9}{1.5}$	1288	108.2	109.7	1.5	5.65	7.05	2.65			8.475	10.575	3.975	
		109.7-111.3 as above Py 30 Pb Zn 14	$\frac{0.7}{1.6}$	1289	<del>109.7</del>	111.3	1.6	7.50	8.21	3.65			12.0	13.136	5.84	
		Foldnose (F <sub>1</sub> ) @ 100.0 axis @ 90°														
		111.3-112.8 as above, py 25, Pb Zn 18 fractured and broken	$\frac{0.5}{1.5}$	1290	<del>111.3</del>	112.8	1.5	8.01	12.77	3.74			12.015	19.155	5.61	
		112.8-113.9 as above, competent, Py 40, Pb Zn 4	$\frac{1.1}{1.1}$	1291	<del>112.8</del>	113.9	1.1	0.98	1.48	0.68		0	1.08	1.63	0.75	P
		113.9-115.0 as above, fractured, Py 30, Pb Zn 10 qtz. vein 114.5-114.7	$\frac{1.0}{1.1}$	1292	<del>113.9</del>	115.0	1.1	4.90	7.25	2.18			5.39	7.975	2.398	
		115.0-116.1 as above, competent, Py 60, Pb Zn 8	$\frac{1.1}{1.1}$	1293	<del>115.0</del>	116.1	1.1	3.23	3.60	1.44			3.553	3.96	1.584	
		116.1-117.3 as above, competent Py 60, Pb Zn 7	$\frac{1.2}{1.2}$	1294	<del>116.1</del>	117.3	1.2	2.28	2.90	1.32			2.736	3.48	1.584	
		117.3-118.5 as above, competent Py 65, Pb Zn 3	$\frac{1.2}{1.2}$	1295	<del>117.3</del>	118.5	1.2	.95	1.38	.62			1.14	1.656	0.744	P
		118.5-119.9 as above, competent, Py 40, mag-tr, Pb Zn 14	$\frac{1.4}{1.4}$	1296	(117.8 118.5 0.7) <del>118.5</del>	119.9	1.4	3.85	8.16	1.73			0.665 5.39	0.966 11.424	0.434 2.422	
		119.9-121.3 as above, qtz-rich, Py 25, Pb Zn 6 fractured and broken with graphite (119.9-120.4)	$\frac{1.0}{1.4}$	1297	<del>119.9</del>	121.3	1.4	4.10	4.10	1.91			5.74	5.74	2.674	
		121.3-122.8 as above, fractured and broken Py 30, Pb Zn 2	$\frac{1.3}{1.5}$	1298	<del>121.3</del>	122.8	1.5	.45	.83	.44			0.675	1.245	0.66	P
		122.8-124.2 as above, Py 30, Pb Zn 2 fractured and broken (122.8-123.5)	$\frac{1.1}{1.4}$	1299	<del>122.8</del>	124.2	1.4	2.25	1.56	1.00			3.150	2.184	1.40	P
		124.2-125.5 as above, competent, py 35, Pb Zn 10	$\frac{1.3}{1.3}$	1300	<del>124.2</del>	125.5	1.3	4.55	10.04	1.85			5.915	13.052	2.405	
		125.5-126.6 as above, competent Py 25, Pb Zn 3	$\frac{1.0}{1.1}$	1301	<del>125.5</del>	126.6	1.1	1.73	2.88	.94			1.903	3.168	1.034	





Interval		DESCRIPTION	Recovery	Sample No	Interval		Sample Length	Assay					Assay x				
From	To				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag		
		of unit, lower contact marked by qtz. vein 10cm wide @ 90°															
161.5	171.8	Graphite Sericite Phyllite grey-black, well foliated @ 85°, locally fractures @ 0°, 45°, F <sub>1</sub> locally evident @ 0° or fold noses axis 90°, details below: 161.5-162.1 as above broken incompetent breccia 162.5-162.8, @ 0°, fragments av. 4mm well 162.1-163.1 as above competent healed by calcite 163.1-163.7 as above incompetent, locally fissile 163.7-164.6 as above competent, 163.7-163.8 F <sub>1</sub> , fold nose fushite rich 164.6-166.0 as above fractured incompetent 166.0-166.7 as above competent 166.7-167.8 as above fractured incompetent 167.8-168.1 Bleached Sericite, 5% pyrite 168.1-171.8 Graphite-Sericite Phyllite, fractures parallel F <sub>2</sub> common, av. fragment 3cm.	<u>4.0</u> <u>10.3</u>														
171.8	185.9	Quartz Sulfide with Phyllites details below 171.8-172.9 Banded quartz sulfide <sup>2% mag.</sup> P <sub>25</sub> , PbZn 3 banding @ 75°, breccia 172-172.2 quartz	<u>1.0</u> <u>7.1</u>	1303	171.8	172.9	1.1	2.15	2.00	.88	(30.2)						

Interval		DESCRIPTION	Recovery	Sample No	Interval		Sample Length	Assay					Assay x				
From	To				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag		
		fragments av. 1cm in massive pyrite matrix															
		172.9-174.5 as above Py 20, PbZn 6 banding @ 60° contorted, fold nose @ 173.5	$\frac{1.3}{1.4}$	1304	172.9	174.5	1.4	3.95	3.40	1.21			5.53	4.76	1.694		
		174.5-175.7 as above, Py 25 PbZn 8 bleached sericite common 175.3-175.7, breccia 175.0-175.1 qtz. fragments av. 1cm healed by carbonate, bands of sulfide @ 60°	$\frac{1.2}{1.2}$	1305	174.5	175.7	1.2	4.30	4.00	1.24			5.16	4.80	1.488		
		175.7-177.3 as above Py 35, mag 8, PbZn 4 well banded @ 80°	$\frac{1.4}{1.6}$	1306	175.7	177.3	1.6	3.30	3.15	1.44			5.28	5.04	2.304		
		177.3-178.6 as above, Py 35, PbZn 4 banding @ 70°, 178.3-178.6 sericite rich foliation strongly contorted	$\frac{1.3}{1.3}$	1307	177.3	178.6	1.3	2.40	2.25	.97			3.12	2.925	1.261		
		178.6-179.5 as above Py 25, mag 1, PbZn 2 well banded @ 70°	$\frac{0.8}{0.9}$	1308	178.6	179.5	0.9	2.95	3.43	1.06			2.655	3.087	0.954		
		179.5-181.0 massive sulfide, py 30, mag 3, PbZn 4 banding @ 80°, breccia 180.4-180.6 py. fragments (av. 3mm) in qtz-sulfide matrix, <u>fault gouge</u> 180.6-180.9 composed of sulfide	$\frac{1.4}{1.5}$	1309	179.5	181.0	1.5	2.85	2.70	1.00			4.275	4.05	1.50		
		181.0-182.4 banded quartz sulfide <sup>mag 1%</sup> Py 25, PbZn 5	$\frac{1.4}{1.4}$	1310	181.0	182.4	1.4	3.60	2.78	1.24			5.04	3.892	1.736		

Interval		DESCRIPTION	Recovery	Sample NO	Interval		Sample Length	Assay					Assay x			
From	To				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag	
		bands @ 60°, fold nose @ 181.9														
		182.4-183.8 bleach sericite Phyllite with sulfides, Py 18%, PbZn 1 F, fold noses (axis 90°) common in part defined by sulfide bands	$\frac{1.4}{1.4}$	1311	182.4	183.8	1.4	1.60	1.28	.68			2.24	1.792	0.952	
		183.8-184.8 Graphite Phyllite 8% py sulfide as disseminate, massive py	$\frac{1.0}{1.0}$	1312	183.8	184.8	1.0	.55	.70	.44			.55	.70	.44	
		183.8-183.9.														
		184.8-185.9 banded quartz sulfide well banded @ 70°, Py 25, mag 4, PbZn 6 bleach sericite 185.7-185.9	$\frac{0.9}{1.0}$	1313	<del>184.8</del>	185.9	1.0	2.55	2.03	.97	(33.3)					
				wt. Av.	172.9	182.4	9.3	3.34	3.07	1.176	(40.3)		31.06	28.554	10.937	
				" "	182.4	184.8	2.4	1.16	1.04	0.58	(19.9)		2.79	2.492	1.392	
185.9		End of Hole														

I

# DIAMOND DRILL RECORD

LOGGED BY MEL DE QUADROS

Typed = HH

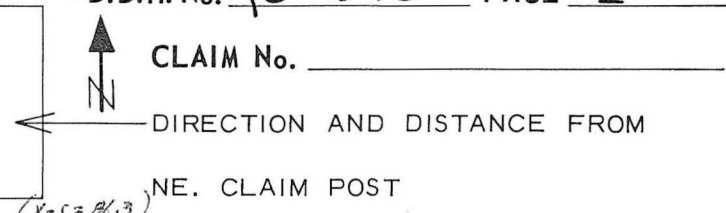
PROPERTY GRUM JOINT VENTURE - UNDERGROUND

D.D.H. No. 95-016 PAGE 1

LATITUDE 10727.09 <sup>LINE GRID</sup> BEARING OF HOLE (3N) <sup>45° 58' 30" ✓</sup> STARTED JAN 1976

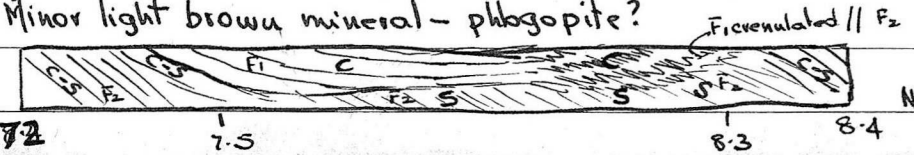
DEPARTURE 7639.76 ✓ DIP OF HOLE (72W) -36° ✓ COMPLETED 21 JAN 1976

ELEVATION 1151.80 ✓ DIP TESTS \_\_\_\_\_ DEPTH Proposed: \_\_\_\_\_ Ultimate: 106.7 m.



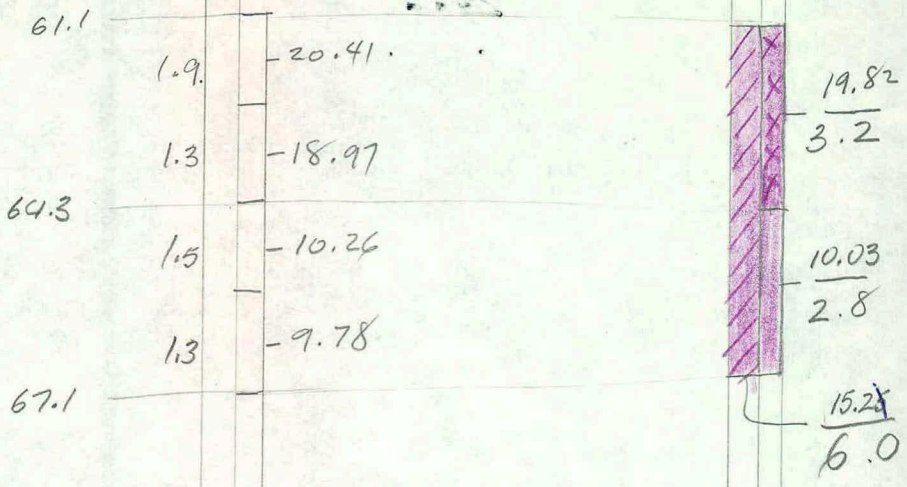
N.D. = 74.15 (1152.46 m) 86.32 (X-S = 21.3)  
V.D. = 76.25 (1075.05 Ft.) 62.72 (1089.08 Ft.)

FOOTAGE m		DESCRIPTION	Rec. Ft. m	Sample No.	Footage m		Sample Length	Assay			Assay x Feet m			
FROM	TO				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn
0	20.4	SILICIFIED QUARTZ-SERICITE ± CHLORITE PHYLLITE GREY												
	21.6	Competent, hard and brittle, well banded and foliated, moderately fissile rock, with generally thin chloritic bands parallel to the foliation and partings. Very minor pyrite, especially between 0-4.6. Also minor white quartz veins, generally discordant. Details below:-	83	84	0	8.4								
		0-3.0: rather massive poorly foliated; with 2-3% Py. Foliation not obvious. F <sub>1</sub> ? 80-90° to c.a.												
		-4.5: well foliated; F <sub>2</sub> steepening from 45° at top to 30° at base; F <sub>1</sub> not visible												
		-7.2: quartz-sericite-chlorite phyllite, banded, well foliated. F <sub>2</sub> 45°.												
		-8.4: 'cherty' quartz-chlorite phyllite, very hard and competent. F <sub>2</sub> approximately 45°; F <sub>1</sub> continuous, folded, changing from 45° at 8.4 to parallel to c.a. from 7.5-8.3. Minor light brown mineral - phlogopite?												



NOT TO SCALE

76-U-16









Interval		DESCRIPTION	Recovery	Sample No	Interval		Sample Length	Assay					Assay x			
From	To				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag	
		53.4-54.8: sheared quartz - sericite phyllite - 56.3: grey gouge ± fragments - 58.3: broken bleached quartz sericite phyllite - 58.3: grey gouge ± rock fragments	4.6 / 5.5	—	53.4	58.9	—									
58.9	61.1	MIXED MINERALISED ZONE														
		58.9-59.8: silicified quartz sericite - graphite phyllite; Py 15-20; PbZn trace; trace Cpy. Minor brecciation; $f_1$ 50°	2.2 / 2.2	—	58.9	61.1	—	Trace	PbZn	Est.						
		-60.3: massive, pyrrhotite <sup>+ dark brown (carbonate) (ZnCO<sub>3</sub>?)</sup> ; $P_0$ 75-80%; 10% Py 5; PbZn trace; $f_1$ 30° High Sp. Grav. <sup>2.5 show.</sup>		U1630	59.9	60.3	0.4	9.30	18.66	127.20	Tr. H.T.		3.72	7.46	(1.48) <sup>3m</sup>	50.88 <sup>P</sup>
		-61.1: white quartz ± minor chlorite, py and Cpy in fractures; and trace PbZn.		U1631		61.1	0.8	0.75	1.05	17.14	"		0.60	0.84	(0.40) <sup>3m</sup>	13.71 <sup>P</sup>
				Wt. Av	59.9	61.1	1.2	3.60	6.92	53.8			4.32	8.30	(1.88) <sup>3m</sup>	64.59
61.1	65.8	MASSIVE SULPHIDE														
		61.1-63.0: very wuggy ± wuggy zones; $f_1$ 35°; Py 65-70; PbZn 14-16; minor breccia	1.8	U1314	61.1	63.0	1.9	7.69	12.72	3.41			14.611	24.168	6.479	
		-64.3: ± bands of sphalerite; $f_1$ 45°; Py 70; PbZn 12-13	1.3	U1315		64.3	1.3	6.10	12.87	3.21			7.93	16.731	4.173	
		-65.8: ± very coarse sphalerite, rust brown xals up to 5cm. across; brecciated; Py <sup>60</sup> / <sub>65</sub> ; PbZn 16? Barites?	1.5	U1316		65.8	1.5	2.03	8.23	1.06			3.045	12.345	1.59	

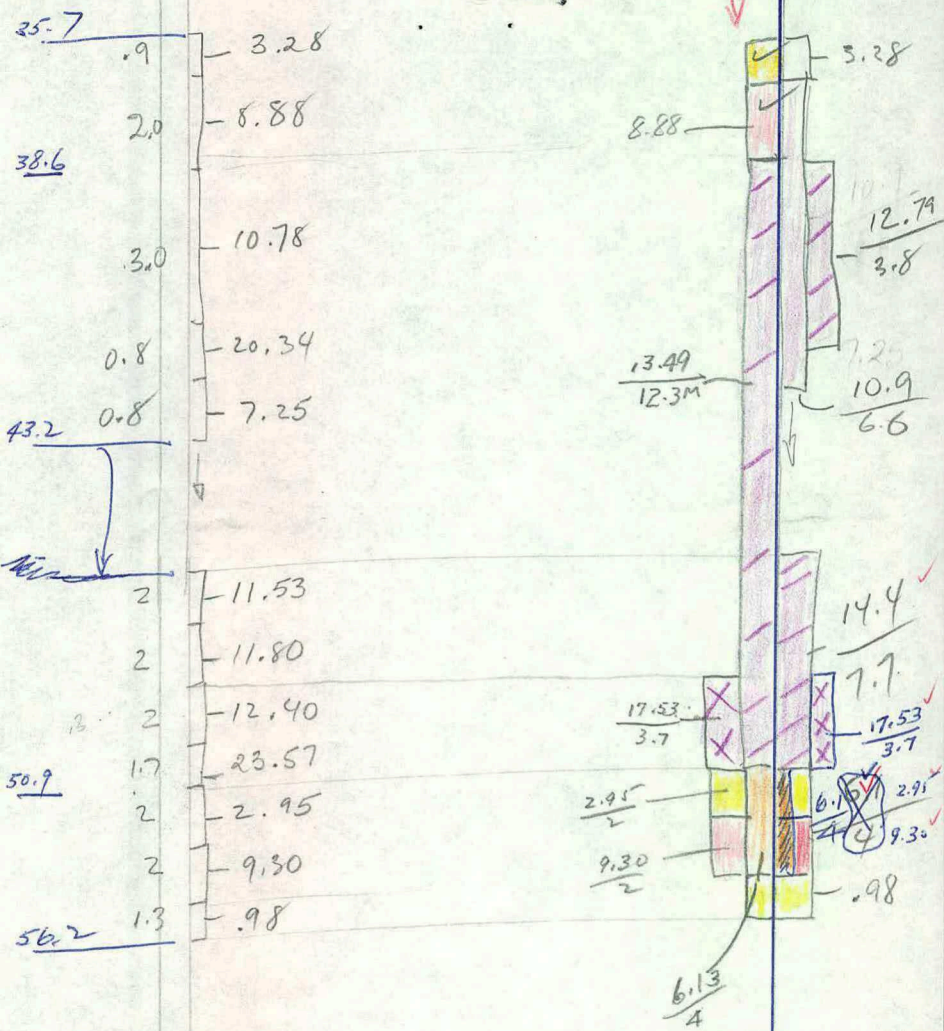






76-UM

VSE ↓



$\frac{4.86}{5.7}$

Interval		DESCRIPTION	Recovery	Sample No	Interval		Sample Length	Assay					Assay x				
From	To				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag		
		29.8-30.1: quartz-sericite phyllite -30.4: white quartz -35.1: quartz-sericite phyllite, slightly altered, with minor chloritic bands and white quartz lenses; Py 2-3%. F <sub>2</sub> 50°	5.3/5.3		29.8	35.1											
35.1	35.7	GOUGE Soft, black and muddy	0.4/0.6	-	35.1	35.7	-										
35.7	36.6	BLEACHED QUARTZ-SERICITE-GRAPNITE-SULPHIDE PHYLLITE Fissile, banded, silicified. F <sub>2</sub> 45°. Py 25, PbZn 5	0.9	U1321	35.7	36.6	0.9	1.28	2.00	.68							
36.6	50.9	MASSIVE SULPHIDE Banded and well foliated, with minor zones of quartz sulphides and barytes rich lenses. Very competent; almost total core recovery. Details:- 36.6-38.6: Py 70; PbZn 13-14; F <sub>1</sub> 45° Minor vuggy zones. -40.6: Py 65; PbZn +20?; very vuggy + coarse F <sub>2</sub> erratic; 30° at 39.1; 20° at 40.6; 0° at 40.4-40.6	2.0	U1322	<del>36.6</del>	38.6	2.0	3.18	5.70	1.73							
			<del>2.0</del>	U1323		41.6	3.0	4.40	6.38	1.88	(59.3)		13.20	19.14	5.64		



Interval		DESCRIPTION	Recovery	Sample No	Interval		Sample Length	Assay					Assay x		
From	To				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag
		45.0-45.2: massive sulphide ± barytes. Overall Py 50; PbZn 10-11	1.9	U1326	43.2	45.2	2.0	3.90	7.63	2.00			7.80	15.26	4.00
		45.2-47.2: massive sulphide with quartz + barytes. F <sub>1</sub> variable; 45° at 45.2; 0° from 45.6-45.9; then increasing to 45° by 46.3m to 47.2. Sub-vertical section vuggy. Py 60; PbZn 13-14.	2.0	U1327		47.2	2.0	4.15	7.65	2.09			8.30	15.3	4.18
		-49.2: as above; F <sub>1</sub> 45-50°	2.0	U1328		49.2	2.0	4.75	7.65	2.38			9.50	15.3	4.76
		-50.9: massive vuggy sulphide ± barytes. F <sub>1</sub> changes from 45° at upper contact to 70-80° from 49.5-50.9. Py 70; PbZn +18. lower contact at 75° 65°; quite abrupt.	1.7	U1329		50.9	1.7	8.22	15.35	3.82			13.974	26.095	6.494
				WT.A.	38.6	50.9	12.3	4.93	8.56	2.335	(80.1)		60.662	105.279	28.722
				WT.A.	47.2	50.9	3.7	6.34	11.2	3.041	(104.3)		23.474	41.395	11.254
50.9	56.2	QUARTZ-SULPHIDE-GRANITE DYLLITE. Well banded and foliated, silicified, hard but fissile; F <sub>1</sub> 70-80° throughout.													
		50.9-52.9: Py 30; PbZn 8	2.0	U1330	50.9	52.9	2.0	1.20	1.75	.88			2.40	3.50	1.76
		-54.8: Py 30; PbZn 9-10	2.0	U1331		54.9	2.0	3.95	5.35	1.68			7.90	10.70	3.36
		-56.2: Py 30; PbZn 6-8	1.3	U1332		56.2	1.3	.43	.55	.53					
		Note: IN ABOVE TWO UNITS IT APPEARS MOST LIKELY THAT THE <del>E</del> F <sub>1</sub> AND F <sub>2</sub> FOLIATIONS ARE PARALLEL		WT.A.	50.9	54.9	4.0	2.57	3.55	1.28	(43.9)		10.30	14.20	5.12



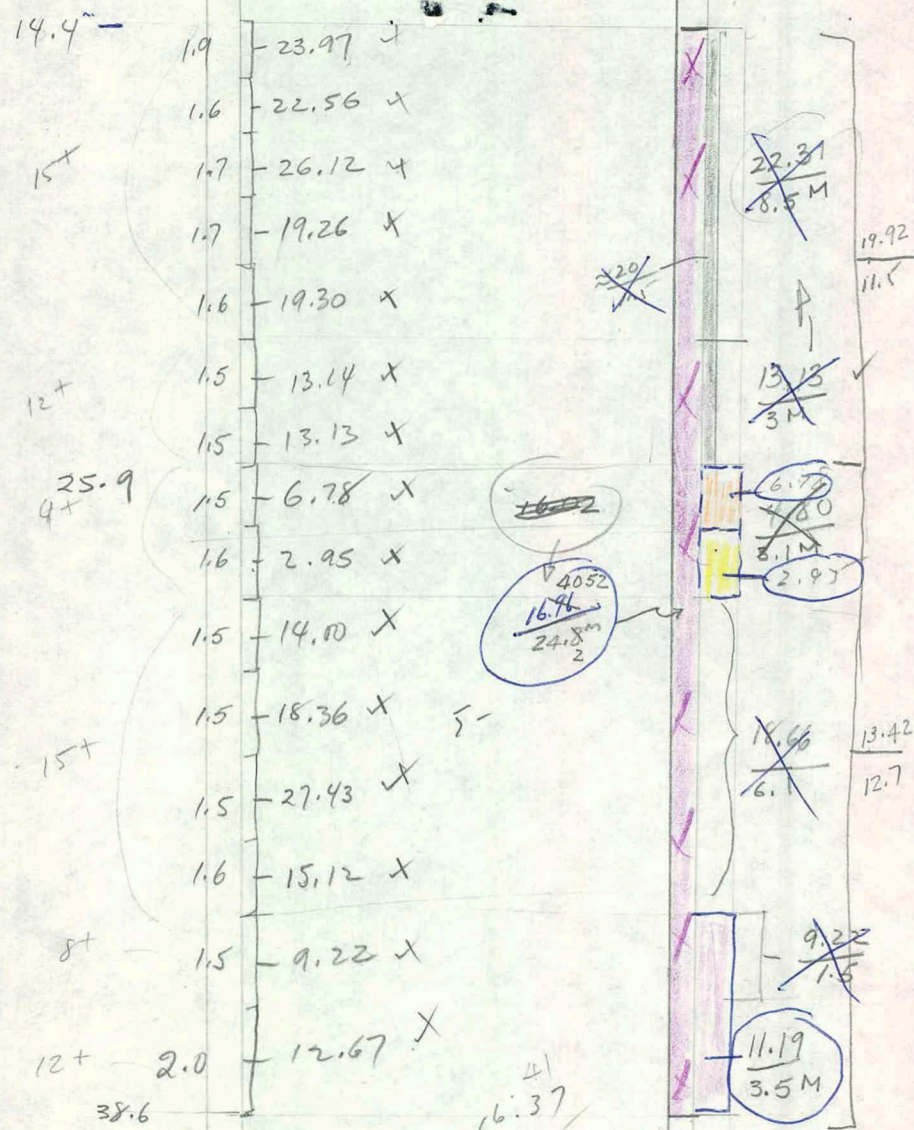


Interval		DESCRIPTION	Recovery	Sample No	Interval		Sample Length	Assay					Assay x			
From	To				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag	
91.4	114.0	ALTERED QUARTZ-GRAPHITE-SULPHIDE PHYLLITE GREY As in unit at 79.7-85.8 but more hissile. F <sub>2</sub> 70-75°. Grades to units above + below. 108.0-108.5: massive pyrite zone; contacts at <sup>70°</sup> 80° Contorted F <sub>1</sub> seen, overall foliation at 40-45° to core axis, cross-cutting F <sub>2</sub> . <del>Py 80</del>	2.3/12.6	—	91.4	114.0	—									
114.0	116.1	MASSIVE SULPHIDE Very pyritic, Py 80; PbZn 1; contacts at 70° to core axis.	2.0	U1333	114.0	116.1	2.1	2.00	2.28	1.12			4.20	4.79	2.35	
116.1	117.7	QUARTZ-SERICITE PHYLLITE LT. GREY Well banded and foliated; fissile, F <sub>2</sub> 70°. Py 1-2%. 116.1-116.2: graphitic	1.4/1.6	—	116.1	117.7	—									
117.7	120.0	MIXED SULPHIDES 117.7-118.1: Massive sulphide; Py 60; PbZn +30 F <sub>1</sub> ? 80-90° 120.0-117.7: Subbanded quartz bleached sericite phyllite with thin bands of sulphides; F <sub>2</sub> 80°; Py 30; PbZn 8	2.2	U1334	117.7	120.0	2.3	4.10	7.86	1.76			9.43	18.08	4.05	
				WT. AV.	114.0	120.0	6.0	2.27	3.81	1.07 (36.7)			13.63	22.87	6.40	

Interval		DESCRIPTION	Recovery	Sample No	Interval		Sample Length	Assay					Assay x				
From	To				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag		
120.0	122.2	QUARTZ-GRANITE PHYLLITE Fissile, well banded + foliated; $F_2$ 80°	2.0/2.2		120.0	122.2											
122.2	124.2	GOUGE Black, soft, muddy	1.5/2.0		122.2	124.2											
124.2	125.0	BLEACHED QUARTZ-SERICITE PHYLLITE LT GREY Poorly foliated, partly silicified; $F_2$ 70° but not very distinctive.	0.7/0.6		124.2	125.0											
125.0	END OF HOLE.																

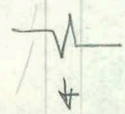


U. 18 (sheet 1)

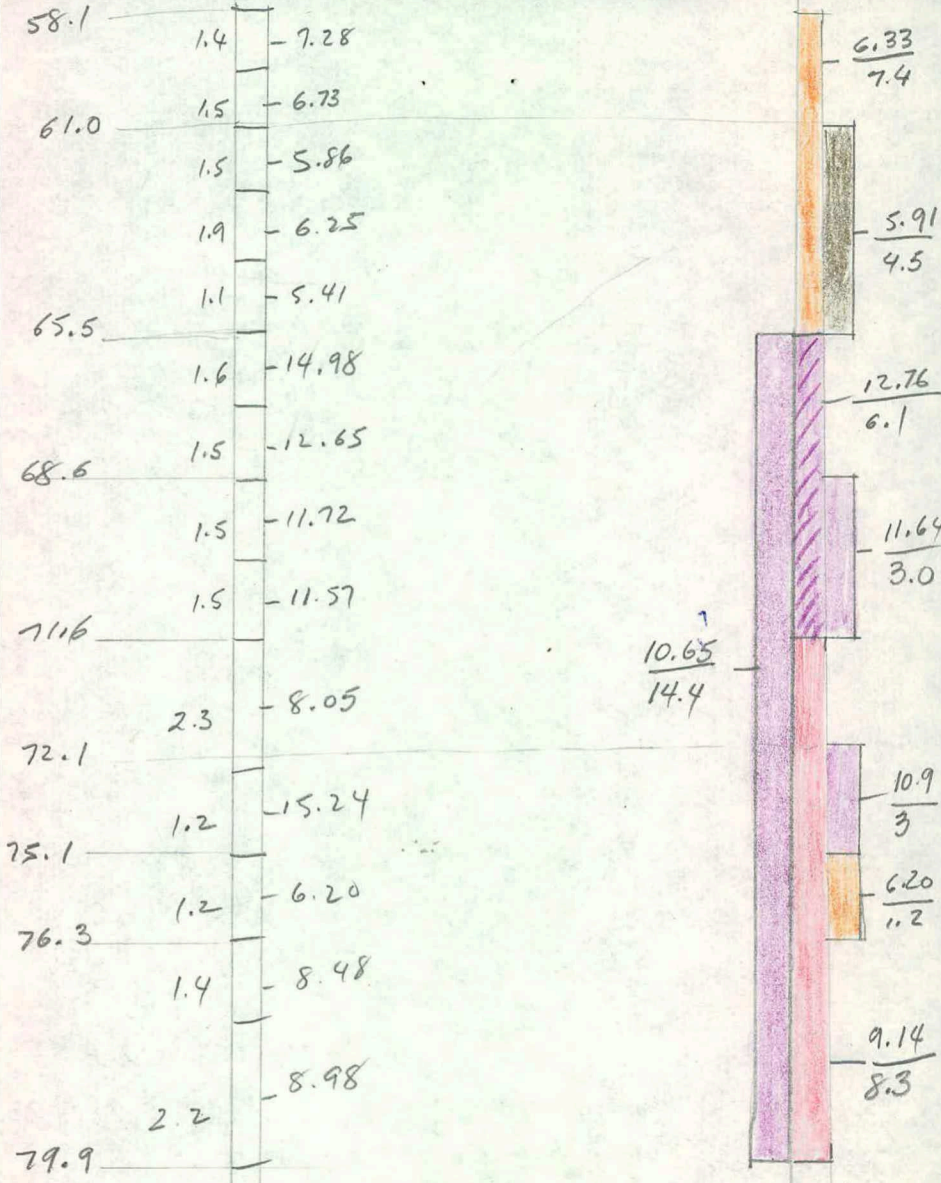


41  
16.37  
1.09  
242  
968  
102  
1938

189.665



76-U18-sheet 2



10.65  
14.4



Interval		DESCRIPTION	Recovery	Sample No	Interval		Sample Length	Assay					Assay x		
From	To				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag
		21.3-22.9 as above, Py 40, mag-tr, PbZn 25 foldnose 22.2-22.7 (faint banding)	$\frac{1.6}{1.6}$	1339	21.3	22.9	1.6	6.46	12.84	2.56			10.336	20.544	4.096
		22.9-24.4 Py 70, PbZn 14, breccia from 24.2-24.4 sulfide and qtz fragments to 1cm in sulfide matrix, well healed	$\frac{1.5}{1.5}$	1340	22.9	24.4	1.5	4.15	8.99	2.09			6.225	13.485	3.135
		24.4-25.9 massive sulfide breccia, Py 45, PbZn 25 breccia as above, faint banding @ 40°	$\frac{1.5}{1.5}$	1341	24.4	25.9	1.5	5.00	8.13	2.44			7.500	12.195	3.66
		<del>25.9</del> foldnose 25.5-26.1 defined by sulfide bands and qtz-fushite bands (with minor carbonate)		Wt. Av.	14.4	25.9	11.5	7.72	12.2	3.23	(110.9)		88.819	140.251	37.183
		25.9-27.4 as above Py 50, PbZn 16 26.8-26.9 graphite phyllite $F_2=40^\circ$	$\frac{1.5}{1.5}$	1342	25.9	27.4	1.5	2.83	3.95	1.65			4.245	5.925	2.475
		27.4-29.0 as above Py 40 PbZn-5 graphite phyllite (27.7-28.0) $F_2=60^\circ$ in part graphite matrix of breccia	$\frac{1.5}{1.5}$	1343	27.4	29.0	1.5	1.30	1.65	.74			2.08	2.64	1.184
		29.0-30.5 massive sulfide, Py 45, PbZn 25 brecciated 29.0-30.0, with minor graphite, banded sulfide 30.0-30.5 @ 60°	$\frac{1.5}{1.5}$	1344	29.0	30.5	1.5	4.35	9.65	2.06			6.525	14.475	3.09
		30.5-32.0 as above Py 60, PbZn 14 broken and fractured 31.2-31.6	$\frac{1.4}{1.5}$	1345	30.5	32.0	1.5	6.53	11.83	2.15			9.795	17.745	3.225
		32.0-33.5 as above Py 60, PbZn 18	$\frac{1.1}{1.5}$	1346	32.0	33.5	1.5	9.50	17.93	3.44			14.25	26.895	5.16



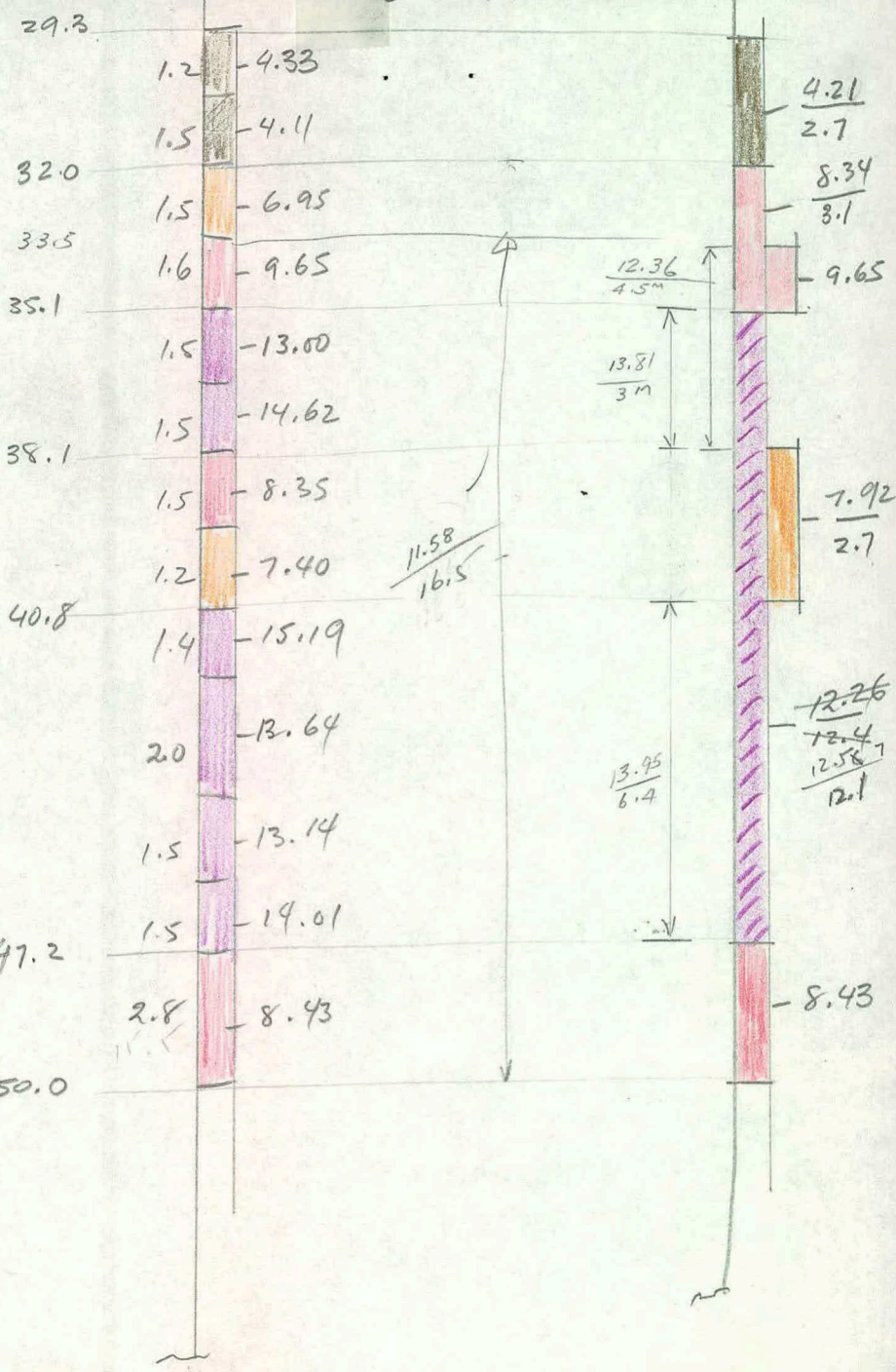
Interval		DESCRIPTION	Recovery	Sample No	Interval		Sample Length	Assay					Assay x			
From	To				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag	
		fissile														
		51.9 - 53.3 Massive sulphide with minor bleach Sericite Py 60, PbZn 6 banding @ 40°	$\frac{1.4}{1.4}$	1350	51.9	53.3	1.4	2.58	4.40	6.42						
		53.3 - 54.1 Bleached Sericite competent														
		54.1 - 54.5 Massive Sulfide Py 40, PbZn 10			<del>54.1</del>	54.5				10% Zn, Est.						
		54.5 - 58.1 Bleached Sericite Competent			<del>54.5</del>	56.0										
		F, fold nose @ 57.8, Massive sulfide (py) 57.4-57.5, 57.6-57.7		U1632		57.6				Nil PZ. Est.						
58.1	79.9	Sulphide Zone details below														
		58.1 - 59.5 Quartz Sulfide Py 40, PbZn 12 bands @ 70°, 10% barite, competent	$\frac{1.4}{1.4}$	1351	58.1	59.5	1.4	2.38	4.90	1.29 <sup>est.</sup>			3.332	6.86	1.806	
		59.5 - 61.0 Quartz Sulfide Py 35, PbZn 7 bands @ 70°, 8% barite, F, fold nose @ 66.0 with fushite	$\frac{1.5}{1.5}$	1352	<del>59.5</del>	61.0	1.5	2.53	4.20	1.29			3.795	6.30	1.985	
		61.0 - 62.5 Quartz Sulfide with Graphite Py 35, PbZn 2, bands @ 65° 20% graphite	$\frac{1.5}{1.5}$	1353	<del>61.0</del>	62.5	1.5	2.08	3.78	.91			3.12	5.67	1.365	
		62.5 - 64.4 Quartz Sulfides Py 30, PbZn 5 broken, incompetent, fractures @ 45°	$\frac{1.7}{1.9}$	1354	<del>62.5</del>	64.4	1.9	1.90	4.35	1.59			3.61	8.265	3.021	
		64.4 - 65.5 Quartz Sulfide Py 35, PbZn 4	$\frac{1.1}{1.1}$	1355	<del>64.4</del>	65.5	1.1	1.93	3.46	1.24			2.123	3.828	1.364	







# 76 U-19





Interval		DESCRIPTION	Recovery	Sample No	Interval		Sample Length	Assay					Assay x			
From	To				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag	
		dark grey, well foliated @ 70°, competent tension fractures @ 30°														
24.7	29.3	Bleached Sericite Phyllite	$\frac{4.0}{4.6}$		24.7	29.3										
		pale green, well foliated @ 70°, rarely fushite on F <sub>2</sub> faces, rare sulfide bands (2mm wide) parallel F <sub>2</sub> , details:														
		26.8-27.1 Sericite Phyllite not bleached														
		27.5-28.3 Bleached Sericite Phyllite														
		F <sub>2</sub> = 40°														
29.3	50.0	Sulphide Zone														
		generally competent, fracturing @ 30°, 80° details below														
		29.3-30.5 Bleach Sericite with Sulfides	$\frac{1.2}{1.2}$	1365	29.3	30.5	1.2	2.28	2.05	1.03			2.736	2.46	1.236	
		well foliated @ 50°, py 15, PbZn 4 massive sulfide 29.3-30.1 banding @ 30°, breccia 29.5-29.9 fragments av. 0.5cm (sulfide and phyllite) healed by sulfide														
		30.5-32.0 Massive sulfide py 55, mag 1, PbZn 7	$\frac{1.5}{1.5}$	1367	30.5	32.0	1.5	2.13	1.98	1.15			3.195	2.97	1.725	
		banding @ 30°		WT. Av.	29.3	32.0	2.7	2.19	2.01	1.096	(37.6)		5.931	5.43	2.961	
		32.0-33.5 as above, py 45, mag 2, PbZn 10	$\frac{1.5}{1.5}$	1368	32.0	33.5	1.5	3.85	3.10	1.73			5.775	4.65	2.595	
		banding @ 50°		WT. Av.	29.3	33.5	4.2	2.79	2.40	1.32	(45.3)		11.71	10.08	5.556	

Interval		DESCRIPTION	Recovery	Sample No	Interval		Sample Length	Assay					Assay x			
From	To				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag	
		33.5-35.1 as above, Py 40, mag 1, PbZn 12	$\frac{1.6}{1.6}$	1369	33.5	35.1	1.6	4.90	4.75	2.15		0	7.84	7.60	3.44	
		banding @ 45°, 5% barite		WT. Av.	32.0	35.1	3.1	4.39	3.95	1.946	(66.7)		13.615	12.25	6.035	
		35.1-36.6 as above Py 30, mag 2, PbZn 10	$\frac{1.5}{1.5}$	1370	35.1	36.6	1.5	6.78	6.22	2.79			10.17	9.33	4.185	
		banding @ 40°, 5% barite														
		36.6-38.1 as above Py 30, mag tr, PbZn 10	$\frac{1.5}{1.5}$	1371	36.6	38.1	1.5	7.10	7.52	3.00			10.65	11.28	4.50	
		banding @ 50°, 15% barite														
		38.1-39.6 as above Py 30, mag 3, PbZn 6	$\frac{1.5}{1.5}$	1372	38.1	39.6	1.5	4.80	3.55	1.91			7.20	5.325	2.865	
		banding @ 40°, 7% barite														
		39.6-40.8 as above Py 40, PbZn 6	$\frac{1.2}{1.2}$	1373	39.6	40.8	1.2	4.30	3.10	1.62			5.16	3.72	1.944	
		banding @ 40°, 4% barite														
		40.8-42.2 as above Py 25, mag 1, PbZn 10	$\frac{1.4}{1.4}$	1374	40.8	42.2	1.4	8.10	7.09	3.68			11.34	9.926	5.152	
		barite 20% banding 40°														
		42.2-44.2 as above Py 25, mag 1, PbZn 10	$\frac{2.0}{2.0}$	1375	42.2	44.2	2.0	6.35	7.29	2.85			12.7	14.58	5.70	
		barite 20%, banding 40														
		44.2-45.7 as above Py 30, mag 2, PbZn 8	$\frac{1.5}{1.5}$	1376	44.2	45.7	1.5	5.85	7.29	3.03			8.775	10.935	4.545	
		barite 20% banding 60°														
		45.7-47.2 as above Py 40, mag 1, PbZn 10	$\frac{1.5}{1.5}$	1377	45.7	47.2	1.5	5.94	8.07	3.24			8.91	12.105	4.86	
		barite 15% banding @ 60°		WT. Av.	33.5	38.1	4.6	6.23	6.13	2.64	(90.4)		28.66	28.21	12.125	
				WT. Av.	35.1	47.2	(12.8)	6.04	6.22	2.78	(93.3)	(15.7)	0	74.905	77.201	33.751
		fold nose @ 46.4 axis = 90°		"	38.1	40.8	2.7	4.57	3.35	1.78	(61.1)		12.36	9.045	4.809	
		axial plane // banding		"	40.8	47.2	6.4	6.52	7.43	3.17	(100.5)		41.725	47.546	20.257	
		47.2-50.0 as above Py 60, mag 1, PbZn 12	$\frac{2.8}{2.8}$	1378	47.2	50.0	2.8	4.88	3.55	2.06		0	13.66	9.94	5.77	
		second contact @ 30°		WT. Av.	33.5	50.0	16.5	5.84	5.74	2.60	(89.1)		96.41	99.74	42.96	





26-U20

18.3

1.5

16.71

1.6

21.20

1.6

19.68

19.24 ✓  
—  
4.7

Interval		DESCRIPTION	Recovery	Sample No	Interval		Sample Length	Assay					Assay x			
From	To				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag	
		grey black, well foliated @ 70°; rare tension fractures @ 10°; fractures @ 0°, 30°, 70° very common, <del>unit</del> broken and fractured, incompetent, F <sub>1</sub> structure common @ 90° to F <sub>2</sub> , <sup>No Sulphs.</sup> details below														
		15.0-15.2 as above sheared														
		17.5-18.3 graphite rich, very fissile to sheared														
18.3	23.0	Massive Sulphide Zone generally competent, fracturing @ 0°, 20°, 40°, sulfide banding @ 70° details below;														
		18.3-19.8 as above Py 40, PbZn 12	$\frac{1.5}{1.5}$	U 1379	18.3	19.8	1.5	6.75	9.96	3.50			10.125	14.94	5.25	
		18.6-18.8 graphite breccia, fragments av. 2mm well healed by Qtz.														
		19.8-21.4 as above Py 30, PbZn 14 fold noses @ 20.5 and @ 21.0	$\frac{1.6}{1.6}$	U 1380	<del>19.8</del>	21.4	1.6	7.79	13.41	3.53			12.464	21.456	5.648	
		20.6-21.0 fushite alteration zone with kaolin, well foliated @ 60°														
		21.4-23.0 as above Py 50, PbZn 20 breccia 22.7-22.9 fragments to 1cm. all sulfide second contact @ 70°	$\frac{1.6}{1.6}$	U 1381	<del>21.4</del>	23.0	1.6	7.96	11.72	3.79			12.736	18.752	6.064	
				WT.	18.3	23.0	4.7	9.51	11.73	<del>3.6081</del> 3.61 (122.7)			35.325	55.148	16.962	plot





Interval		DESCRIPTION	Recovery	Sample No	Interval		Sample Length	Assay					Assay x				
From	To				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag		
		@ 90° to F <sub>2</sub> , rare fracturing @ 0°, parting along F <sub>2</sub> common, details															
		60.4 - 61.0 as above fissile incompetent	<u>0.3</u> 0.6														
		minor bleaching @ first contact															
		F <sub>2</sub> = 0°															
		61.0 - 62.5 as above competent F <sub>2</sub> = 50°	<u>0.8</u> 1.5														
		qtz vein 61.8 - 62.0															
		62.5 - 63.7 as above very fissile to	<u>0.4</u> 1.2														
		sheared, incompetent, F <sub>2</sub> = 30°															
		63.7 - 71.3 as above competent F <sub>2</sub> = 70°	<u>6.1</u> 7.6														
		second contact qtz-vein															
		1cm wide @ 80°. No lumps.															
71.3	72.8	Massive Sulphide Py 15, PbZn 20	<u>1.4</u> 1.5	1383	71.3	72.8	1.5	6.68	7.47	2.74							
		cpy-tr, competent, vague banding		WT Av.	69.8	72.8	3.0	3.34	3.74	1.37	(47)						
		@ 70°, fold nose @ 72.7 axial plane @ 90°, inclusions of															
		qtz, bleach sericite, barite common															
72.8	74.7	Quartz Sericite Phyllite	<u>1.3</u> 1.9														
		dark grey, well foliated @ 50°, F <sub>1</sub>															
		@ 90° to F <sub>2</sub> , details															
		72.8 - 74.3 as above competent															
		74.3 - 74.7 as above fissile incompetent															
		End of Hole 74.7															

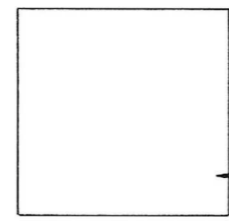
# DIAMOND DRILL RECORD

LOGGED BY Glenn Tetu Feb. 3 / 76 D.D.H. NO 76u-21 PAGE 1/7

Typed = UP

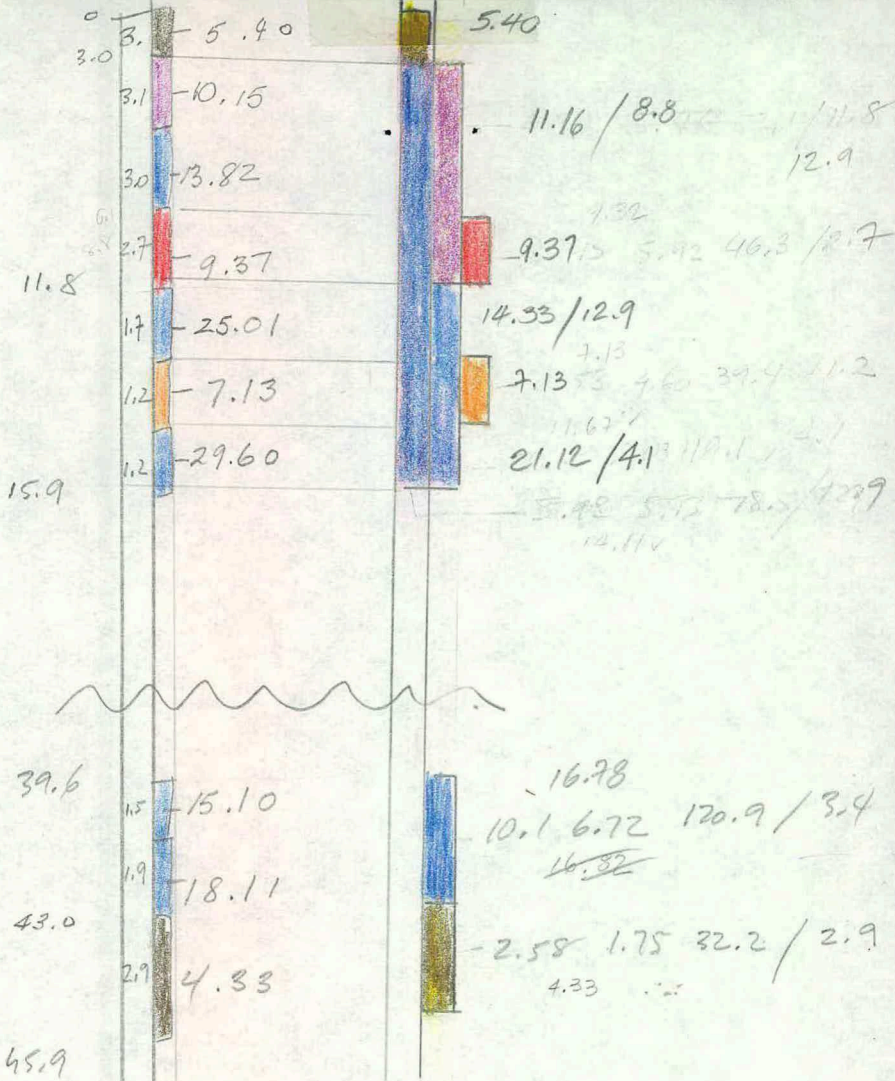
PROPERTY Grum Joint Venture (Underground)  
 LATITUDE 10 716.85 <sup>Line Gra</sup> 3N STARTED 27/1/75  
 DEPARTURE 7628.66 720 COMPLETED 2/1/76  
 ELEVATION 1155.64 PROPOSED DEPTH \_\_\_\_\_  
 ULTIMATE DEPTH 76.2 m

HOLE SURVEY:		
DEPTH	BEARING	DIP
<u>0</u>	<u>227° 07'</u>	<u>+55</u>
<u>Collar</u>	<u>227° 00' 49"</u>	



CLAIM NO \_\_\_\_\_  
 DIRECTION AND DISTANCE FROM N.E. CLAIM POST

Interval		DESCRIPTION	Recovery	Sample NO	Interval		Sample Length	Assay					Assay x				
From	To				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag		
0	14.7	Quartz Sulphides with Graphite 20% ± 5% sulphide, 15% graphite, competent, minor fracturing @ 0°, 30°, moderate foliation @ 60° (F <sub>2</sub> incipient in parts defined by strongly crenulated F <sub>1</sub> , also locally absent), F <sub>1</sub> 10° ± 10° traces of cpy along fractures details below															
		0-3.0 as above py 12, PbZn 4	$\frac{1.1}{3.0}$	1424	0	3.0	3.0	2.45	2.95	0.88	0		7.34	8.85	2.64		
		3.0-6.1 as above py 10, PbZn 5	$\frac{3.1}{3.1}$	1425	3.0	6.1	3.1	5.05	5.10	1.76			16.655	15.81	5.456		
		6.1-9.1 as above py 10 PbZn 6, F <sub>2</sub> in part defined by sulphide bands	$\frac{3.0}{3.0}$	1426	6.1	9.1	3.0	5.91	7.91	2.06			17.73	23.73	6.18		
		9.1-11.8 as above py 10 PbZn 5, F <sub>1</sub> , fold nose @ 10.8	$\frac{2.7}{2.7}$	1427	9.1	11.8	2.7	3.45	5.92	1.35			9.315	15.984	3.645		
		11.8-13.5 as above py 15 pbZn 10 Massive sulphide 11.8-12.3	$\frac{1.7}{1.7}$	1428	11.8	13.5	1.7	10.37	14.64	4.35			17.629	24.888	7.395		
		13.5-14.7 as above py 10 pbZn 2, qtz vein	$\frac{1.2}{1.2}$	1429	13.5	14.7	1.2	2.53	4.60	1.15			3.036	5.52	1.38		



0.21  
 76.2<sup>m</sup>





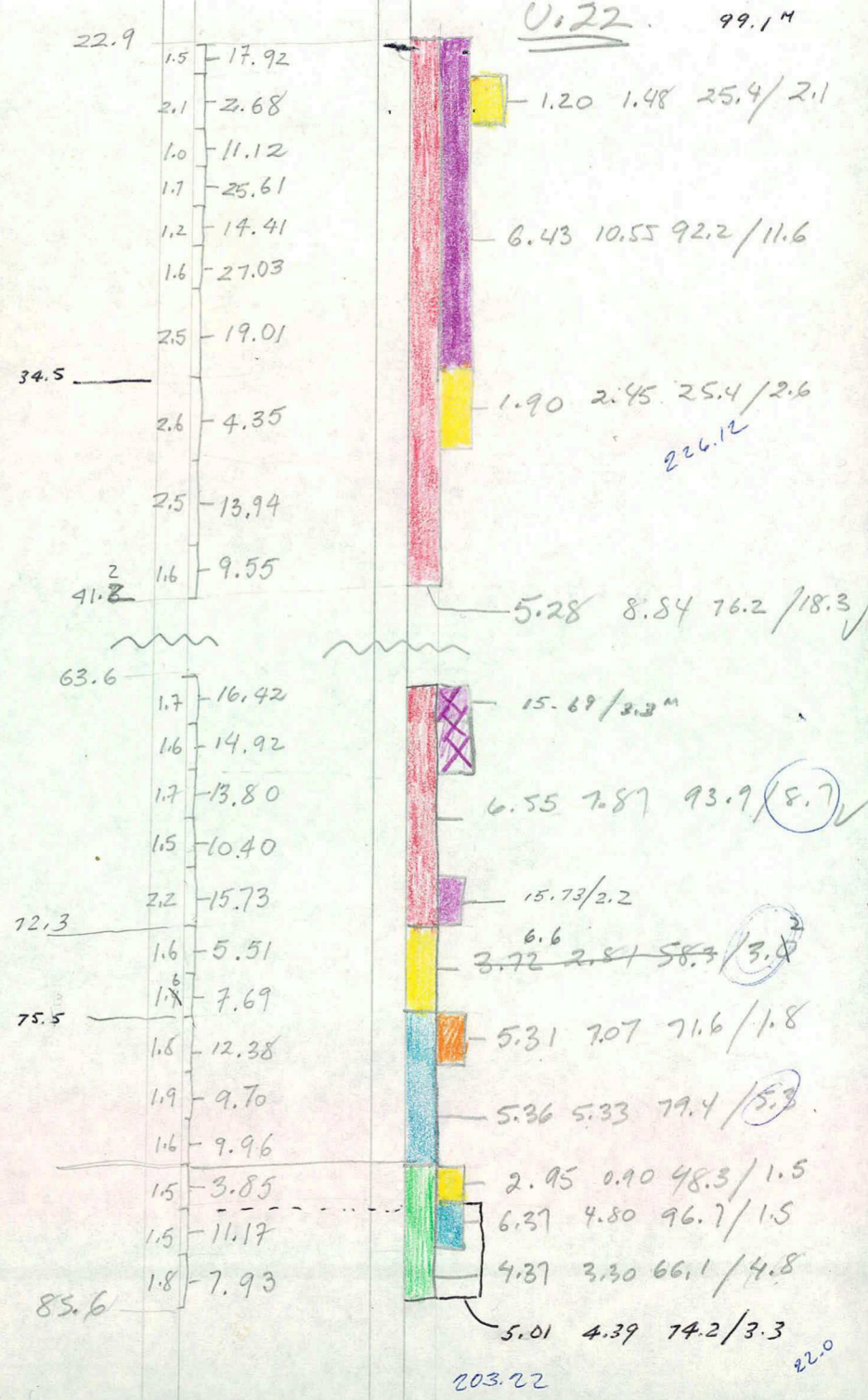
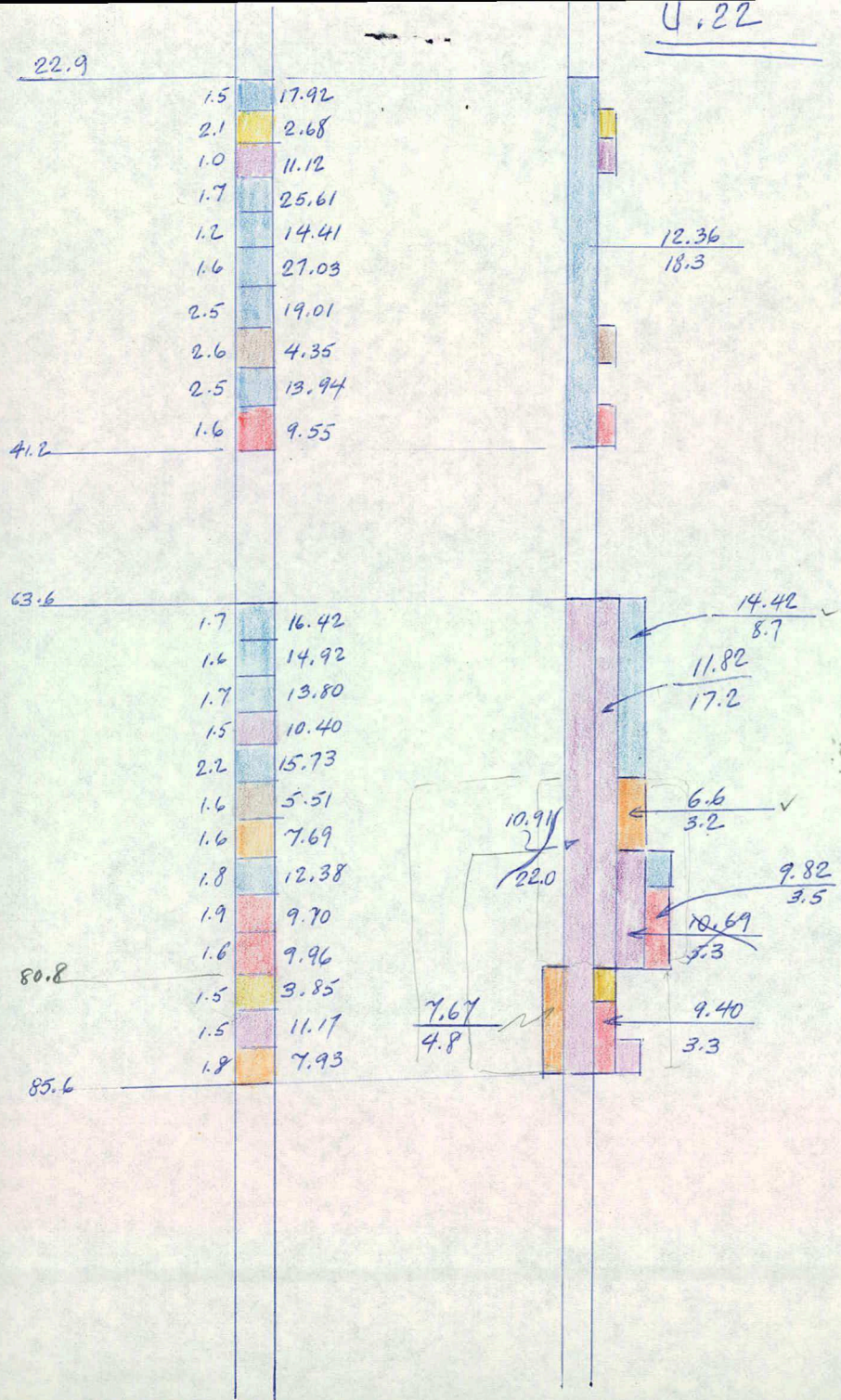
Interval		DESCRIPTION	Recovery	Sample No	Interval		Sample Length	Assay					Assay x				
From	To				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag		
		pale green, moderate foliation @ 80°, competent, minor fracturing @ 0°, 70°; silicified, 15% sulphides (py ± sph ± gal) within qtz rich bands as disseminate, locally traces of chlorite, @ 38.0 F, foldnose.															
39.6	43.0	Massive Sulphide (Banded) banding @ 65°, competent fracturing @ 0°, 60°	$\frac{2.6}{2.6}$														
		39.6-41.1 as above Py 55 PbZn 17 4% barite	$\frac{1.5}{1.5}$	1431	39.6	41.1	1.5	7.85	7.25	3.30		15%	11.775	10.875	4.95		
		41.1-43.0 as above Py 55 PbZn 15 breccia 41.7-42.2 qtz and sulphide fragments av. 0.5cm, well healed by qtz and fine grained sulphide	$\frac{1.9}{1.9}$	1432	41.1	43.0	1.9	11.80	6.31	3.71		15%	22.42	11.989	7.049		
				W.A.V	39.6	43.0	3.4	10.1	6.72	3.529	(120.9)		34.195	22.864	11.999		
43.0	45.9	Quartz Sulphide with bleached Sericite mod foliation @ 75°, Py 30 PbZn 8, fracturing @ 0°, 40°, 70°, sericite is friable, qtz vein 44.0-44.2 @ 30°, 45.0-45.5 Massive Sulphide banding @ 60°	$\frac{2.9}{2.9}$	1433	43.0	45.9	2.9	2.58	1.75	0.94	(32.2)						







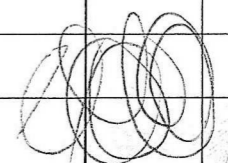








Interval		DESCRIPTION	Recovery	Sample No	Interval		Sample Length	Assay					Assay x				
From	To				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag		
		second contact qtz-vein 5cm wide @ 90°															
47.8	63.6	Quartz Sericite Graphite Phyllite grey-black, well foliated @ 70°, minor fracturing @ 0°, 80°, F <sub>1</sub> structure not distinct locally evident @ 90° to F <sub>2</sub> details below															
		47.8-51.1 as above, competent	<u>3.0</u> 3.3														
		51.1-51.8 as above, sheared incompetent fragments to 0.5cm, bleached	<u>0.5</u> 0.7														
		<u>Fault Gouge</u> 51.2-51.4															
		51.8-53.7 as above F <sub>2</sub> = 55°, common parting along F <sub>2</sub>	<u>1.4</u> 1.9														
		53.7-56.7 as above, sheared, fractured incompetent, 53.9-54.1 F <sub>2</sub> = 0°, <u>Fault Gouge</u> 55.8-56.3 sericite rich, fragments to 1cm diametre	<u>2.1</u> 3.0														
		second contact qtz vein broken and fractured.															
		56.7-57.9 as above competent	<u>1.0</u> 1.2														
		57.9-63.6 as above, fissile and sheared	<u>3.0</u> 5.7														
		<u>Fault Gouge</u> 60.8-61.5 sericite rich clay fragments to 0.5cm															







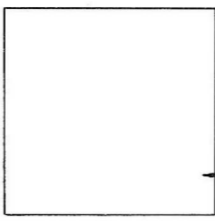


# DIAMOND DRILL RECORD

LOGGED BY Glenn Tetu ~~from~~ Feb 1/76 D.D.H. No 76-u-23 PAGE 1/7

PROPERTY Grum Joint Venture (Underground)  
 LATITUDE 10 720.80 line and STARTED Jan 31/76  
 DEPARTURE 7632.885 79W COMPLETED Jan 31/76  
 ELEVATION 1151.74 PROPOSED DEPTH \_\_\_\_\_  
 ULTIMATE DEPTH 70.1 metre

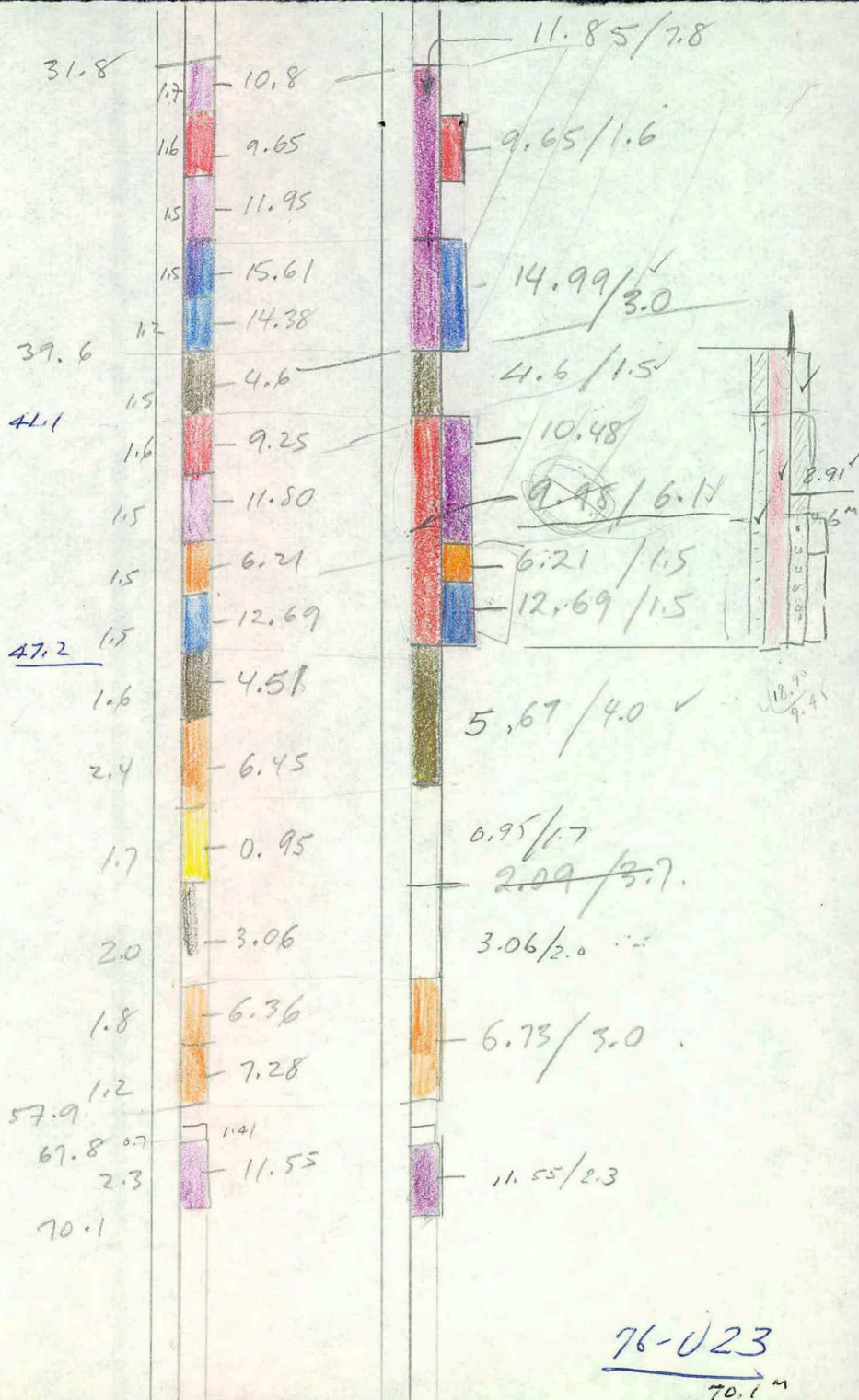
HOLE SURVEY:		
DEPTH	BEARING	DIP
<u>Collar</u>	<u>047°</u>	<u>-68°</u>



CLAIM NO \_\_\_\_\_  
 ↑  
 N  
 ↓  
 DIRECTION AND DISTANCE FROM N.E. CLAIM POST

Interval		DESCRIPTION	Recovery	Sample No	Interval		Sample Length	Assay					Assay x				
From	To				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag		
0	1.0(?)	Quartz Sulphide with Graphite 15% sulphide, well foliated @ 70°	<u>0.2</u> <u>1.0</u>														
1.0(?)	1.5	Calcite Chlorite Phyllite dark green well foliated @ 80°, 25% calcite, fracturing @ 30°	<u>0.2</u> <u>0.5</u>														
1.5	1.8	Quartz Sulphide with Graphite F <sub>1</sub> = 10°, F <sub>2</sub> incipient @ 60°, dark grey colour, broken and fractured	<u>0.2</u> <u>0.3</u>	<u>U1638</u>	<u>0(?)</u>	<u>1.9</u>	<u>1.9</u>	<u>2.03</u>	<u>2.55</u>	<u>24.36</u>	<u>gm/MT</u>						
1.8	2.1	Calcite Chlorite Phyllite dark green, 25% calcite, F <sub>1</sub> = 30° second contact Qtz vein 0.2 metre long with inclusions of chlorite	<u>0.3</u> <u>0.3</u>														
2.1	2.7	Bleached Sericite Phyllite with Sulphides pale green, well foliated @ 80°, F <sub>1</sub> @ 90° to F <sub>2</sub> , 5% sulphide, second contact Qtz vein 20 cm wide	<u>0.6</u> <u>0.6</u>														
2.7	7.1	Quartz Sericite Phyllite	<u>4.4</u> <u>4.4</u>														

H.D. = 26.26 (K-5-26.2)  
 V.D. = 65. (1096.74 cl.)





Interval		DESCRIPTION	Recovery	Sample No	Interval		Sample Length	Assay					Assay x				
From	To				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag		
14.5	18.0	pale green, silicified, competent, well foliated @ 80°, 5% sulphide (py sph) Chlorite Calcite Phyllite	$\frac{3.5}{3.5}$														
18.0	19.3	dark green, massive, F, @ 40° with fold noses @ 14.7, 16.1, competent, 15% calcite, qtz veins 16.5-16.7, and 17.6-17.7, 16.3-16.6 Sericite Phyllite with sulphide dark grey, well foliated @ 70°, 5% sulphide Quartz Vein	$\frac{1.2}{1.3}$														
19.3	24.7	milky white, competent, 2% sulphides (including traces of arsenopyrite), 5% sericite phyllite as bands av. 4cm wide @ 70°; fractures @ 30°, 90° Quartz Sericite Phyllite with sulphides blue-grey, well foliated @ 65°, F, locally eudant @ 5°, 8% sulphides (py-sph-gal) as stringer disseminate in qtz rich sections, qtz vein 22.3-22.6 @ 80°, and 22.8-23.0 @ 70° 24.2-24.7 as above with bleached	$\frac{5.0}{5.4}$														
				U1640	19.3	22.3	3.0	1.18	3.50	15.09				3.54	10.50	45.27	
				U1641		23.9	1.6	1.94	2.50	15.09				3.10	9.00	24.14	
				Wt. Av.	19.3	23.9	4.6	1.44	3.15	15.09				6.64	14.50	69.41	









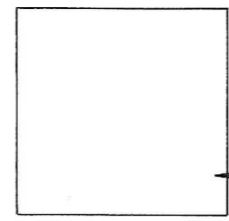
# DIAMOND DRILL RECORD

LOGGED BY Glenn Tetu

*Typed & H.P.*  
D.D.H. No U-24 PAGE 1/4

PROPERTY 6rom Joint Venture (Underground)  
 LATITUDE 10726.672 <sup>Line Grid</sup> STARTED 2/2/76  
 DEPARTURE 7640.42 COMPLETED 3/2/76  
 ELEVATION 1155.16 PROPOSED DEPTH \_\_\_\_\_  
 ULTIMATE DEPTH 59.4

HOLE SURVEY:		
DEPTH	BEARING	DIP
0	47° 24'	+ 34 1/2



CLAIM NO \_\_\_\_\_  
 ↑  
 N  
 ↓  
 DIRECTION AND DISTANCE FROM N.E. CLAIM POST

Interval		DESCRIPTION	Recovery	Sample No	Interval		Sample Length	Assay					Assay x		
From	To				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag
0	21.9	Quartz Sericite Phyllite dark grey, well foliated 55±10°, generally competent, fracturing @ 60°, 80°, 15°, 0°; qtz veins common @ 80° and parallel F <sub>2</sub> , av. 3cm wide, with carbonate and sulphide (py-po); tension fractures rare, @ 15° with calcite fill; F <sub>1</sub> structures locally, @ 90° to F <sub>2</sub> ; sulphide stringers, rare and locally, follow F <sub>1</sub> structure, details: 0-1.6 as above, bleached sericite (0.5-0.6) 1.6-2.1 as above, broken and fractured sheared in part 2.1-14.9 as above, competent 14.9-15.2 qtz vein, with 5% stringer sulphide (po) 15.2-16.7 Bleached Sericite with Sulphides	21.6 21.9												

H.D. = 48.95 (K-S=48.75)  
 V.D. = 33.64 (EL=1188.5)







# DIAMOND DRILL RECORD

LOGGED BY Slemm Jettis

Feb 6 / 76

D.D.H. No 76-U-25 PAGE 1/5

*Typod = LHP*

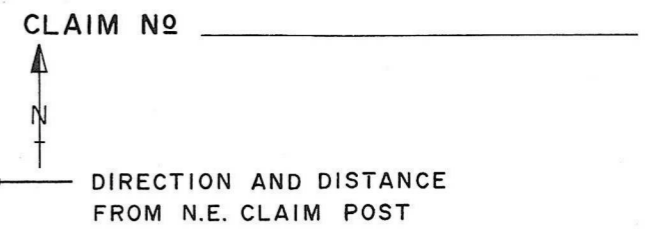
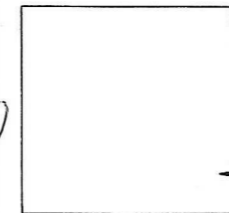
PROPERTY Grum Joint Venture (Underground)

LATITUDE \* 10725.4" STARTED 5/2/76

DEPARTURE \* 7638.8 COMPLETED 7/2/76

ELEVATION \* 1155 PROPOSED DEPTH \_\_\_\_\_  
 \* Assumed. ULTIMATE DEPTH 114.3

HOLE SURVEY:		
DEPTH	BEARING	DIP
Cellar	47°	+34 1/2
(not surveyed, assume DDA #024)		



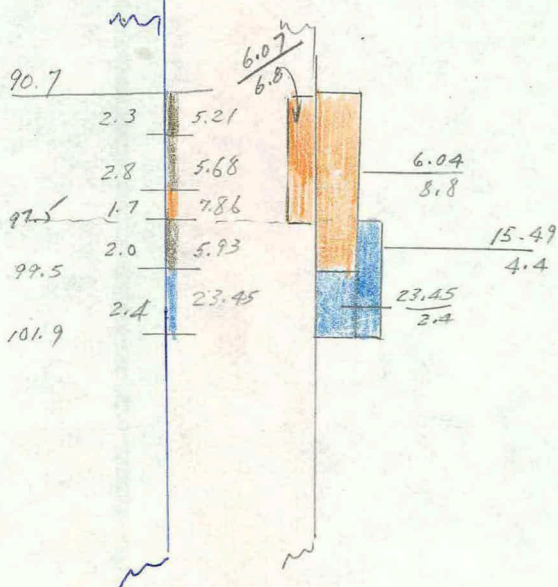
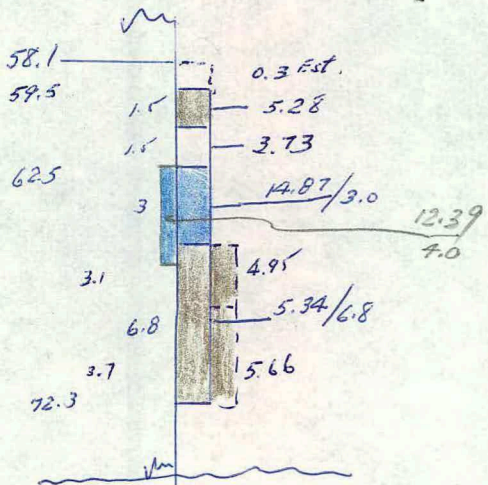
Interval		DESCRIPTION	Recovery	Sample No	Interval		Sample Length	Assay					Assay x		
From	To				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag
0	52.4	Quartz Sericite Phyllite, dark grey, well foliated @ 60° ± 5°; minor local tension fractures @ 15° with qtz-carb fill, qtz. veins sub- parallel F <sub>2</sub> common approx. 3cm wide; parting along F <sub>2</sub> common locally rock fissile details; (F <sub>1</sub> locally evident @ 90° to F <sub>2</sub> ) 4.1-4.6 qtz vein with 2% sulphide 5% sericite 4.6-4.7 sheared phyllite 6.1-6.2 " " 15.5-15.8 sheared fractured and broken Sericite Phyllite 16.5-16.8 as above 17.4-17.7 qtz vein with 5% carbonate 5% sericite 17.7-18.0 Bleached sericite phyllite	16.4 25.6	0	25.6										

H.D. = 44.2 (X-S = 93.8)  
 V.D. = 64.74 (E = 1219.8)





76-025 (114.3<sup>m</sup>)



Interval		DESCRIPTION	Recovery	Sample No	Interval		Sample Length	Assay					Assay x				
From'	To				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag		
		sulphides, fracturing @ 30° and 45°, 90° second contact marked by sheared phyllite															
88.0	90.7	Quartz Sericite ± Chlorite Phyllite dark green grey, well foliated @ 50°, 10% chlorite, competent, qtz veins parallel F <sub>2</sub> @ 89.0-89.4 and 90.1-90.3 second contact gradational	$\frac{2.7}{2.7}$														
90.7	99.5	Quartz Sulphides with Graphite generally fractured and broken, fractures @ 15°, 30°, 45°, 80°, wuggy texture, F <sub>2</sub> foliation @ 20° ± 5° details															
		90.7-93.0 as above, competent, Py 8, PbZn 3 92.1-93.0 bleached sericite phyllite	$\frac{2.3}{2.3}$	1437	90.7	93.0	2.3	1.78	3.43	0.85		5. -	4.094	7.889	1.955		
		93.0-95.8 as above, Py 12, PbZn 4 93.2-93.7 sheared qtz rich	$\frac{2.0}{2.8}$	1438	93.0	95.8	2.8	1.83	3.83	0.88		-	5.124	10.78	2.464		
		95.8-97.5 as above py 15 pbZn 5	$\frac{1.6}{1.7}$	1439	95.8	97.5	1.7	2.58	5.28	1.15		✓	4.386	8.976	1.955		
		97.5-99.5 as above Py 15 PbZn 6	$\frac{1.8}{2.0}$	1440	97.5	99.5	2.0	2.35	3.58	1.15		✓	4.70	7.16	2.30		
		breccia 97.6-98.8 and 99.2-99.5 fragments of sulphide av. 0.5cm healed by sulphide and graphite (with qtz)		W.A.	90.1	99.5	8.8	2.08	3.96	0.986	(33.8)		18.304	34.805	8.674		
				W.A.	90.7	97.5	6.8	2.00	4.07	0.937	(32.1)		13.604	27.645	6.374		

