

J. Sheen

Interval		DESCRIPTION	Recovery	Sample No	Interval		Sample Length	Assay					Assay X				
From	To				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag		
68.2	71.0	Qtz - Ser ± SulpA (Sb) Bleached Buff. 75% qtz, sulphs @ 68.2-69.8 (10P ₄ , 0.3PZ), remaining contains negligible sulphs. Shearing @ 69.4-69.8" and @ 70.3" C.A. 70° @ 68.4", 75° @ 70", 30° @ 70.6, 70° @ 71"	1.0 / 1.6		68.2	69.8		0.3	PZ, est.								
			1.2 / 1.2	/		71.0	/										
71.0	80.5	Qtz - Ser Phyl (S) Med. Gray 60-70% qtz. Fringe of altered rocks showing altered gray phyllites w/ intermittent bleached phyl. Rocks incompetent due to the many narrow shears throughout, most show gouge. Shear of PZ @ 76.6" C.A. F ₂ = 55° @ 71.5", 70° @ 72.5, 75° @ 75.2, 80° @ 77", 70° @ 79, 65° @ 80"	9.5 / 9.5		71.0	80.5											
80.5	82.1	Qtz - Ser Phyl (Sb) Bleached Buff. 60-70% qtz, band of biotite @ 80.8" 0.3 py. Upper contact = 0.1" of crushed phyllite, lower contact possible shear. C.A. F ₂ = 65-80-70° - F ₁ local @ 81.2"	1.5 / 1.6		80.5	82.1											
82.1	122.2	Qtz - Ser Phyl (S) Med Gray. 50-60% qtz. Thinly laminated w/ local 5mm of zone banding showing F ₁ sub-v. to F ₂ . Fissile.	2.5 / 5.4 3 / 3.9		82.1	87.5											
						91.4											

LOGGED BY
Interval To

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Interval		DESCRIPTION	Recovery	Sample No	Interval		Sample Length	Assay					Assay x				
From	To				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag		
175.2	188.8	MASSIVE, SULPHS. (Mb)															
		Disseminated & mass sulphs (minor) in Qtz-barite. Mineralization	50	5	0.8	A-4978	175.2	176.1	0.9	3.33	2.85	37.37			3.00	0.57	33.63
		massive.	55	16	1.8	4979		177.9	1.8	9.85	9.31	96.69			17.43	16.76	174.04
		175.2 - 176.1": 80 py, 5 PZ, 3 barite, 0.3 Mag.	45	10	1.6	4980		179.6	1.7	5.50	7.47	73.71			9.35	12.70	125.31
		-178.4": 55 py, 16 PZ, 15 "	1	0	0.77 / 1.0	/		180.6	/	Nil	PZ, est.				0	0	0
		-179.6": 40 py, 10 PZ, 25 " , 0.1" barren Qtz-Ser @ 179.3"	70	10	1.4	A-4981		182.0	1.4	6.59	5.30	70.63	-		9.23	7.42	98.88
		179.6 179.9: Bleached Qtz-Ser (56), barren.	75	6	1.45	4982		183.5	1.5	1.70	1.63	16.11			2.55	2.45	24.17
		-180.6": Qtz-Graph., 1 py, 110 PZ, intense shearing.	75	7	1.8	4983		185.2	1.8	2.38	1.45	22.29			3.57	2.18	33.44
		-181.3": 80 py, 6 PZ, 0.5 Mag, 3 barite	70	12	1.4	4984		186.5	1.5	13.79	4.65	138.17			20.69	6.98	207.26
		-182.0": 65 py, 15 PZ, , 5 "	50	16	1.3	4985		188.0	1.5	5.00	7.06	73.71			7.50	10.59	110.57
		-185.2": 75 py, 6 PZ, 1.5 Mag, 2 "	40	14	0.8	4986		188.8	0.8	3.38	6.26	45.26			2.70	5.01	36.21
		-188.8": 70-80 py, 12-16 PZ, ² 0.2 Mag, 5-10 Barite															
		C.A. 70-75" (Compositional banding)															
188.8	218.5	QUARTZ-SULPHIDES - Ser (PF)															
		Massive & banded Qtz-sulphs w/ 0-5% buff-white	58	45	1.5	A-4987	188.8	190.3	1.5	0.30	0.95	8.91			1.05	PtZn	
		sericite.	60	5	1.45	4988		191.8	1.5	1.03	1.25	14.06			2.28	"	
		188.8-190.3" @ 50 py, 0.5 PZ, 0.1 Mag	60	4	0.7	4989		192.5	0.7	0.63	1.13	17.14			1.76	"	
		-192.5": 60 py, 4-5 PZ, 4-5 Mag.	40	0.1	1.2	4990		194.0	1.5	0.15	0.10	6.17			0.25	"	
		-194.2": 40 py, 0.1 PZ, 0.1 Mag, spot chalc.	40	25	2.7	4991		197.0	3.0	0.38	0.60	7.86			0.98	"	
		196.4": 40 py, 3 PZ, 2 Mag.	50	5	2.5	4992		199.9	2.9	1.50	2.13	20.23			3.63	"	
		197.1": 40 py, 1 PZ, 0.5 Mag.	25	2	0.35	4993		200.6	0.7	0.88	0.98	12.00			1.86	"	

J. Shaw

Interval		DESCRIPTION	Py	PZ	Recovery	Sample No	Interval		Sample Length	Assay					Assay x		
From	To						From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag
		187.1 - 189.6 ^m : 60-35 Py, 5-6 PZ, 1-0.5 Mag.	30	10	1.0	A 4994	200.6	201.8	1.2	3.10	2.45	45.26			3.72	2.94	54.31
		-189.9 = 50 Py, 8 PZ.															
		-200.6 : 25 Py, 2 PZ.	45	7	0.35	4995		203.0	1.2	1.33	1.78	17.14			1.60	2.14	20.57
		-201.8 : 50 Py, 10 PZ.															
		-203.0 : 45 Py, 7 PZ.	35	0.7	3.0	4996		206.0	3.0	0.63	0.68	13.03			1.31	Pl Zn	
		-204.6 : Qtz-sulph-ser (SBP), 3 Py, 10 Po, 0.5 PZ, Sprink Chalk.															
		-206.1 : 45 Po, 5 Py, 1 PZ, 0.2 Cu, 0.1 Mag.	12	0.3	1.0	4997		207.5	1.5	0.38	0.48	7.20			0.86	"	
		-207.5 : 12 Py, 10.2 Po, 0.3 PZ, 0.1 Cu.															
		-209.0 = 5 Py, 3 PZ.	5	3	0.9	4998		209.0	1.5	1.35	1.23	22.29			2.58	"	
		-209.6 = 75 Py, 6 PZ, 0.5 Mag.															
		-210.1 : Barren bleached Ptz (SB)	75	6	0.35	4999		209.6	0.6	1.43	1.98	25.37			3.41	"	
		-214.0 = 35 Py, 1 Po, odd Mag, 2 PZ, 0.1 Cu.	0	0	0.5/0.5			210.1	0.5	NIL	PZ, Est						
		-215.7 : Qtz-ser bleached (SB), 0.2 ^m Qtz-Py	40	0.5	0.8/0.8			210.9	0.8	1.5	PZ Est.						
		-217.1 : 35 Py, 5 Po, 0.5 PZ. (P ₂)	35	2.0	1.5	A 5000		212.4	1.5	1.00	0.73	14.06	✓				
		-218.5 : 3 Py, 0.2 Po, No PZ, sericitic (SBP)	30	0.5	1.4/1.6			214.0		1.5	PZ Est.						
			2	0	1.5/1.7			215.7		NIL	PZ, Est.						
		C.A. 70-60° undulating.	40	0.3	1.4/1.4			217.1		0.3	PZ, Est						
			3	NIL	1.4/1.4			218.5		NIL	PZ,						
218.5		End Of Hole.															
						WT. Av.	176.1	182.0	5.9	6.15	6.25	67.50			36.31	36.88	398.23
		REMARKS:				"	175.2	182.0	6.8	5.48	5.80	63.51			39.31	39.45	431.86
		①. Lost water return @ 189.6 ^m , no return thereafter.				"	176.1	179.6	3.5	7.74	8.42	85.53			27.08	29.46	299.35
						"	179.6	182.0	2.4	3.84	3.09	41.2					
		② Cemented w/ 10 bags cement.				"	182.0	185.0	3.0	2.04	1.54	19.20			6.12	4.63	57.61
						"	185.0	188.8	3.8	8.13	5.94	93.17			30.89	22.58	354.04
						"	185.0	188.0	3.0	9.40	5.86	105.94			28.19	17.57	317.83
						"	188.8	200.6	11.8	1.81	Pl Zn						
						"	200.6	203.0	2.4	2.22	2.12	31.2			5.32	5.08	74.88
						"	203.0	207.5	4.5	1.16	Pl Zn						
						"	207.5	209.6	2.1	2.82	"						

J. L. Shaw

Interval		DESCRIPTION	Recovery	Sample No	Interval		Sample Length	Assay					Assay x				
From	To				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag		
		<i>F₁ not noted except for noses @ 48.3, 49.5 & 51"</i>															
54.0	60.8	<i>Qtz-Ser - Calc Phy (Sk) Light Gray 55-60% qtz, 1-3 calc, ± talc. Massive. Intermittent intervals of talcy phylite. Shearing @ 56.4" showing 5cm of graphitic phyl; sls @ 56.6-57.7" & 58.7" C.A. F₂ = 70°. F₁ local sub-v to F₂ @ 57.5 & 60.4"</i>	<i>6.8 / 6.8</i>		54.0	60.8											
60.8	72.5	<i>Qtz-Ser - Calc - Calc Phy (Sk) Pale Greenish-Gray 45-50% qtz, 10-15% chl, 2-3 calc, ± talc. Massive, partly banded, firm rock. 70.4-71.0" = Qtz-Sulph (SP), 1 py, 4 PZ. spots of PZ also @ 65.1, 65.3, 66.7 and @ 67" C.A. F₂ = 70-80° undulating F₁ = locally good, else no evident of F₁. Sub-v to F₂ @ 69.5-70.7", 71.5-72"</i>	<i>9.6 / 9.6</i> <i>0.6 / 0.6</i> <i>1.5 / 1.5</i>		60.8	70.4											
						71.0				4 PZ, est.		5+					
						72.5											
72.5	76.3	<i>Qtz-Ser - Sulphides (SP) Bleached Buff. 60% qtz, 1 py, 2-5 PZ. F₂ mineralization, also F₁. C.A. F₂ = 70-80° undulating. F₁ sub-v to F₂, poor</i>	<i>1.5 / 1.5</i> <i>0.25 / 0.3</i>		72.5	74.0	1.5	0.98	1.50	9.94		2+					
						76.0	2.0	2.15	1.85	23.31		5+					
						76.3						-2					

118.7

1.5	-2.08
1.1	-0.2 P ₂ (Est)
0.6	-0.00
2.5	-7.40
0.7	-0.00

129.2

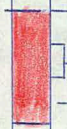
1.6	-3.86
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130.8

1.5	-4.68
1.7	-6.93
0.9	-0.00
0.6	-24.67
1.3	-0.00
1.4	-5.73

139.6

1.4	-3.90
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NIL
8.31
3.2 ✓

calculations

DIAMOND DRILL RECORD

LOGGED BY



D.D.H. No. 76-1155

PAGE 1 of 5

PROPERTY GRAM JOINT VENTURE, Y.T.

LATITUDE CO-ORDS 10 962.658 GRID 10^u+6.5^m NE

BEARING OF HOLE

STARTED Sept. 11/76 D.S.

DEPARTURE 7 697.623 76^u+3^m SE

DIP OF HOLE -90°

COMPLETED Sept. 12/76 D.S.

ELEVATION 1311.051 Surface

DIP TESTS NONE

Proposed: 94.5^m
Ultimate: 94.5^m



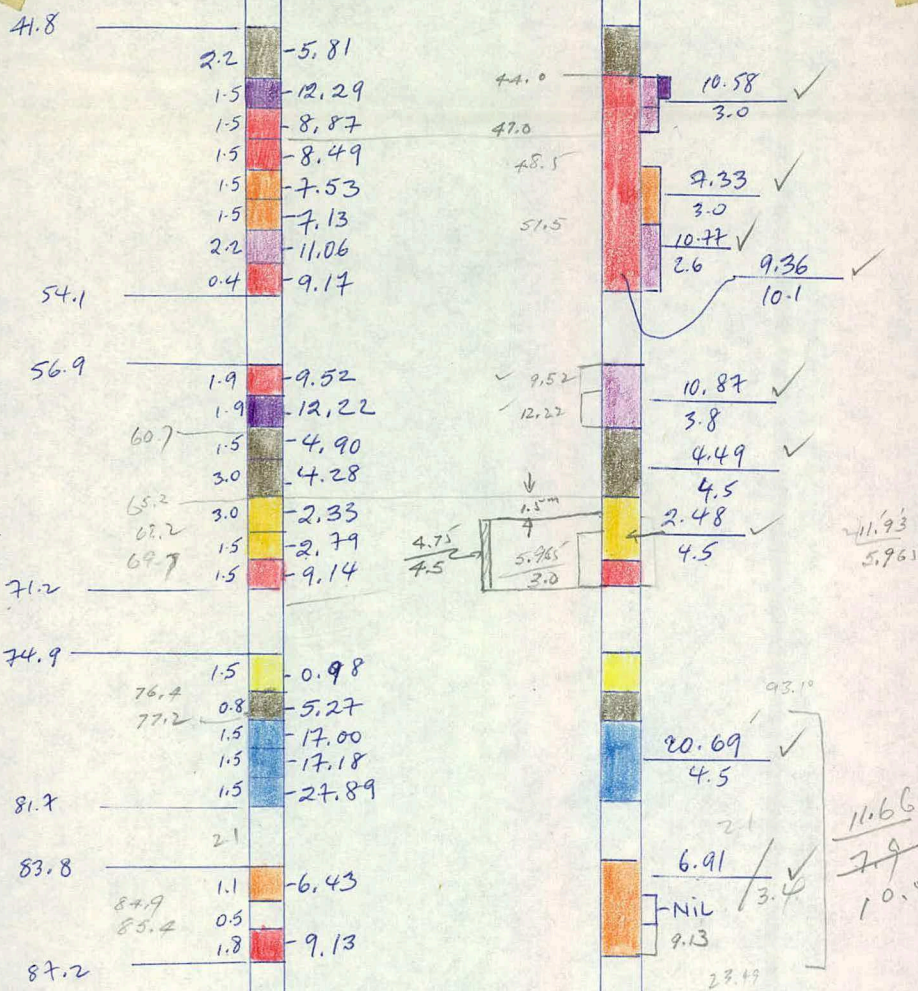
CLAIM No.

DIRECTION AND DISTANCE FROM

NE. CLAIM POST

USE 75-173 Brg + Dips : @ 212' (64.6^m) Brg = 10121', Dip = -89°

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	41.8	OVERBURDEN	0.02 / 41.8		0	41.8											
41.8	54.1	R73 - SULPHS - GRAPH (Pg F)															
		70-75 ^u qtz, 3-5 graph, 5-15 Py, 3.5-8 PZ															
		Quartzose, banded, Fe mineralization mainly. Negl. oxidn. to 45.2 ^m															
		C.A. F ₂ = 65° @ 42-43.6 ^m , 20° @ 44, 65° @ 44.5, 30° @ 45.4 ^m															
		60° @ 46 ^m , 40° @ 48.5, 50° @ 49.2-49.8, 30° @ 50 ^m															
		46° @ 51.2 ^m to 52.7, 60° @ 52.9-54.0 ^m															
		F ₁ = 60° to F ₂ @ 43.6, 70° to F ₂ @ 46, 60° @ 47, 90° @ 48.6 ^m															
		45° to F ₂ @ 50.3, 70° to F ₂ @ 53.5 ^m															
54.1	55.2	FAULT															
		54.1-54.2 ^m : Buff Ser Phy	0.65 / 1.1														
		-55 : Med. Gray Gouge, no sulphs		WT. Av.	44.0	47.0	3.0	3.56	7.03	55.37				10.67	21.08	166.11	
		-55.2 : Black Gouge w/ py (+PZ?)		"	48.5	51.5	3.0	2.68	4.65	38.91				8.04	13.96	116.74	
				"	51.5	54.1	2.6	3.41	7.36	52.96				8.86	19.14	137.70	
				"	44.0	54.1	10.1	3.17	6.19	48.51				32.00	62.49	489.99	



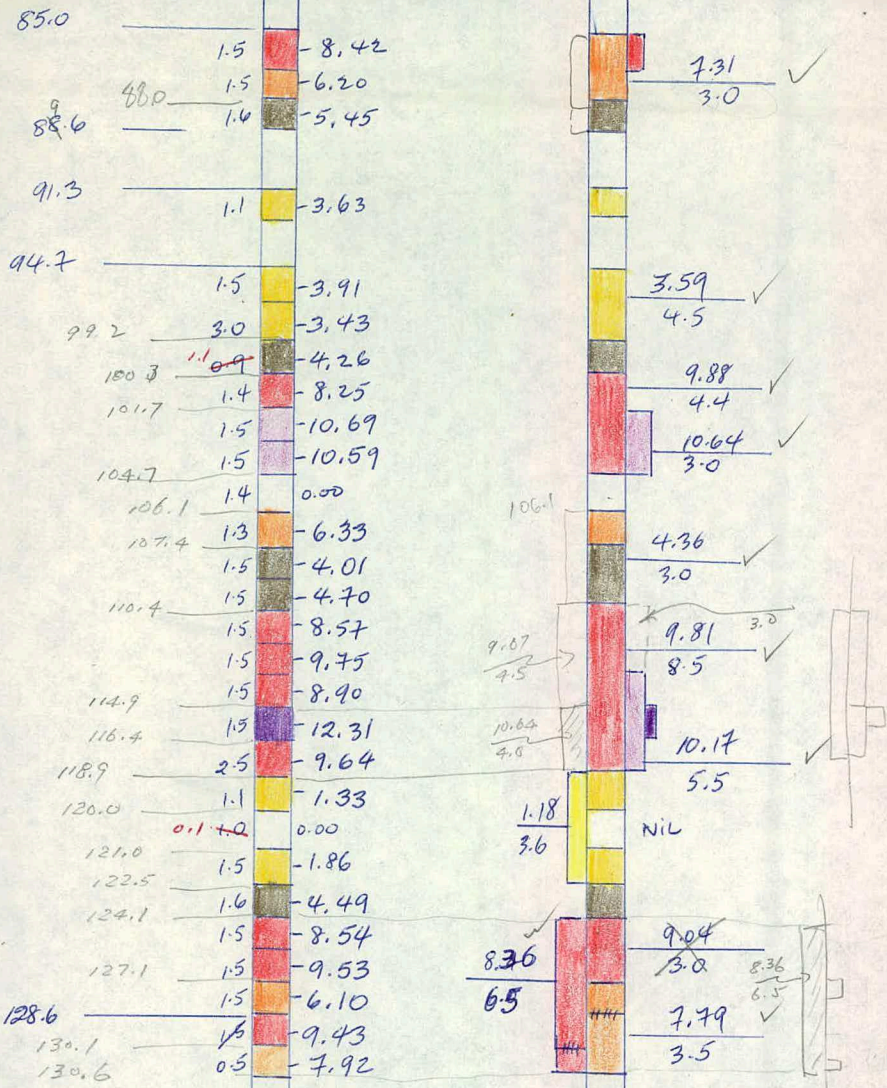
4.5

23.49

93.10

F. J. [Signature]

Interval		DESCRIPTION	Recovery	Sample No	Interval		Sample Length	Assay					Assay x			
From	To				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag	
89.6	91.3	Qtz - TALC - CHL (Tc) <i>Green lenses on white.</i> <i>Massive, green chlorite lenses within white talc. Lower contact qtz vein from 91-91.3", both ends sheared. 30% chl, 40% talc. C.A. 75° @ 89.7, 35° @ 90, 70° @ 90.4, 60° @ 89.7.</i>	1.7 / 1.7		89.6	91.3										
91.3	92.4	Qtz - Sulph - Ser (Ps) <i>off-white</i> <i>75% qtz, 2 py, 4.5 pz. Massive, siliceous & hard. Streaky, irregular bands of sulph. F2 mineralization. C.A. P2 = 60°. F1 = 90° to P2 @ 91.7.</i>	1.1	A 266B	91.3	92.4	1.1	1.38	2.25	18.17	✓					
92.4	94.7	Qtz - TALC - CHL / Qtz - Sulph / CHL - Qtz - Ser <i>Green.</i> <i>92.4-93.6" : 0.5 89.6-91.3" (Tc) -93.8 = " 91.3-92.4" (Ps), 1 py, 4 pz. -94.7 = rich chl. phy (80% chl) (Cs) C.A. 75 to 70°</i>	1.2 / 1.2 0.2 / 0.2 0.5 / 0.9		92.4	93.6 93.8 94.7										
94.7	99.2	Qtz - Sulph - Ser (Ps) <i>off-white.</i> <i>As 91.3-92.4", 2.5 py, 4 pz. 95.5-95.75" : Bleached, Qtz - Ser - Seriparite (Sb) 98.9-99.2" : Pale gray phy + Qtz vein, barren. C.A. F2 = 70° @ 95-95.5, 85° @ 96.7-98, 65° @ 98.7. F1 80 to P2 @ 99.3.</i>	3 / 3.5 2 / 4	1.5 3.0	A 267B 268B	94.7 99.2	1.5 3.0	1.78 1.28	2.13 2.15	24.34 17.14		3.91 3.43	Pt-2N "			
99.2	104.7	Qtz - Sulph - Ser - Graph (P50) <i>75% qtz, 5 ser, 1-2 graph, 10 py, 9 pz.</i>		Weighted Average	94.7	99.2	4.5	3.59	Pt-2N			16.16	"			



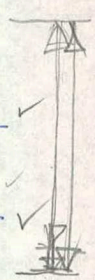
J. Shaw

Interval		DESCRIPTION	Recovery	Sample No	Interval		Sample Length	Assay					Assay x			
From	To				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag	
120.1	121.0	Qtz - Ser Py (S) <i>Light Gray.</i> 70% qtz, odd speck Pz. Faint banding. C.A. F ₂ = 80°. F ₁ = 90° to F ₂ . 120.7 - 121.0 ^m : FAULT gouge.	0.9 / 0.9		120.1	121.0										
121.0	122.5	Qtz - Ser - Sulphs (SbP) <i>Bleached Buff.</i> 60% qtz, 4 py, 2 Pz, irregular banding. C.A. F ₂ = 85-90°.	1.4	A 282B	121.0	122.5	1.5	1.10	0.76	13.03			1.86	Ptzn		
				WT. Av.	118.9	122.5	3.6	1.18	Ptzn							
122.5	125.6	Qtz - Ser - Sulphs (SP) <i>Med. Gray.</i> 55-60% qtz, 6 py, 7 Pz; F ₂ mineralization dissem in gyllose bands. C.A. F ₂ = 85° @ 122.5 ^m , 70° @ 123.5, 90° @ 124.5, 60° @ 125.3 ^m . F ₁ = 45-90° to F ₂ , good.	1.55	A 283B	122.5	124.1	1.6	1.95	2.54	27.43	✓					
			1.4	284B		125.6	1.5	2.49	6.05	41.49			3.74	9.08	62.24	
			0.67	285B		127.1	1.5	2.75	6.78	50.40			4.13	10.77	75.60	
125.6	130.1	Qtz - Ser - Tal - Sulphs (SbT)(P) <i>Off-white</i> Intermittent intervals of Qtz-Sulphs and Qtz-Ser-Talc-Sulphs 125.6 - 127.2 ^m : Qtz-Sulphs (P), 5 py, 7 Pz - 127.4 = Buff-Ser-Sulphs (SbP) <i>Wedge Sulphs.</i> - 128.6 = Qtz-Ser-Sulphs-Talc (SbTP), 3 py, 4 Pz - 130.1 = Qtz-Sulph-Ser (Ps), 3 py 6.5 Pz C.A. F ₂ = 70° @ 125.9 ^m , 85-90° @ 128.4 - 130 ^m . F ₁ = 40-90° to F ₂ , locally fair.	1.05	A 286B	127.1	128.6	1.5	1.93	4.17	32.23			2.90	6.26	48.35	
			0.65	287B		130.1	1.5	2.78	6.65	47.31			4.17	9.98	70.97	
			0.4	288B		130.6	0.5	2.08	5.84	36.34			1.04	2.92	18.17	
				WT. Av.	124.1	130.6	6.5	2.46	5.91	42.36			15.98	38.41	275.33	
				"	127.1	130.6	3.5	2.32	5.47	39.28			8.11	19.16	137.49	

R. Chow

Interval		DESCRIPTION	Recovery	Sample No	Interval		Sample Length	Assay					Assay x				
From	To				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag		
		158.4-158.6" : sheared															
		-158.6 : Fault gouge & crushed phyllite.															
		Narrow shears of gouge @ 159", 159.7, 160.3, 162 & 163.5"															
		C.A. F ₂ = 70° , F ₁ = 90° to F ₂ , grad. F ₁ nose @ 161.4"															
164.2	165.6	Qtz - Ser PHY (SB) Bleached Buff.															
		65-70% qtz. Massive, not foliated, contains	1.4		164.2	165.6											
		10% secondary gray quartz. Upper contact sharp @ 70° // bedding.	1.4														
		C.A. 70°															
165.6	169.1	Qtz - Ser - Sulphs (SP) Light Gray.															
		55-60% qtz, no py to 167.6" but 2 spots Pb;															
		167.6-168.4" : No py, 0.5 Pb;															
		-169.1 : 0.5 py, 3 Pb.															
		168.8-170" : Fault, breccia & crushed phy.															
		C.A. F ₂ = 75-85° . F ₁ excellent, sub- \perp to F ₂ ; F ₁ noses R ₁ , P ₂	2.0		165.6	167.6											
		@ 169.2-170.5"	1.5	A 501B		169.1	1.5	0.43	1.28	8.91	✓						
169.1	172.8	Qtz - Ser - Sulphs (SBP) Bleached Buff.															
		Bleaching gradually from 169.1 to 169.9", light buff gray	0.8	A 502B	169.1	170.7	1.6	2.63	9.05	62.40	✓		4.21	14.48	99.84		
		to buff, entirely buff color thereafter.	0.1			172.3							0	0	0		
		169.1-170.7" : 0.5-1% py, 7-8 Pb, numerous F ₁ noses.	1	A 503B		172.8	0.5	4.70	10.66	80.57	↓	2.35	5.33	40.29			

132.6						
135.3	2.7	-5.16				
137.3	2.0	-4.93			4.59	✓
138.8	1.5	-8.13			5.0	
140.3	1.5	-6.58				
	1.5	-5.63			5.13	✓
143.3	1.5	-4.63			3.0	
	3.0	-3.56				
	2.0	-3.41			3.55	✓
150.0	1.7	-3.68			6.7	
	4.9	-5.10			4.49	✓
157.9	3.0	-4.28			7.9	
158.5	0.6	-2.13				
167.6						
169.1	1.5	-1.71				
	1.6	-11.68			5.84	
170.7	1.6	0.1 est.	8.01		3.2	
172.3	1.6		4.5		12.39	✓
172.8	0.5	-15.36			1.4	
173.7	0.9	-10.43				
174.3	0.6	-4.33			10.54	✓
175.4	1.1	-11.57	9.02		3.1	✓
	1.5	-5.03	1.7			
176.9						
194.1					4.96	✓
	1.6	-4.95			3.1	
197.2	1.5	-4.98				
198.7	1.5	-9.12			8.23	✓
200.3	1.6	-7.40			3.1	
	1.5	-5.43			5.44	✓
202.3	0.5	-5.46			2.0	

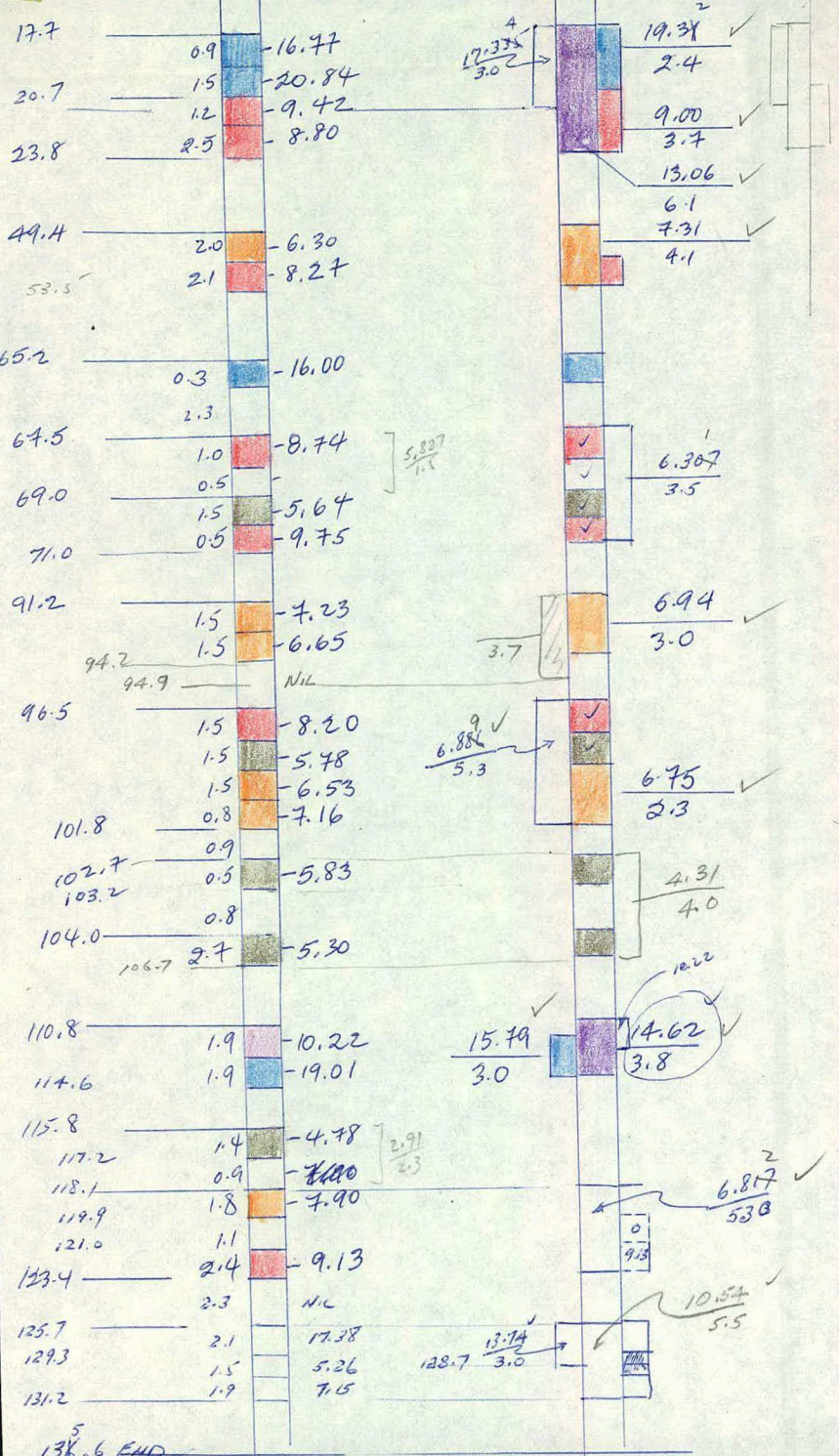


[Signature]

Interval		DESCRIPTION	Recovery	Sample No	Interval		Sample Length	Assay					Assay x				
From	To				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag		
36.2	40.4	QZ - Ser PHY (S) <i>Light Gray</i> 45-55% qtz, sericitic, fissile, thinly laminated. C.A. F ₂ = 65°. F ₁ not noted.	3.2 / 4.64		36.2	40.4											
40.4	44.1	QZ - (Talc - Ser) PHY. (S _T) <i>Off-White</i> Massive & soft. Probably ^{more} Ser + Talc than Qtz. C.A. 55-60°	1.0 / 1.4 2.3 / 2.3		40.4	41.8 44.1											
44.1	47.1	SHEAR & FAULT ZONE (S _a + S) Phyllites highly sheared of fault gouge & breccia noted @ 44.7-45.2" and @ 46.3-47.1" Phyllites mainly Ser & Graph, buff ser @ 45.2-46.3" C.A. 55-60°	0.6 / 0.7 0.55 / 1.5 0.55 / 0.8		44.1	44.8 46.3 47.1											
47.1	53.5	QZ - Ser ± Graph Phy (S + S _b) 47.1-48.0" = Bleached grayish-buff ser. -50.5" : Ser-Graph Phy, 2% PbZn @ last 15 cm. Shear @ 49-49.5" -51.05" : Bleached buff ser phy, 4 py, 1 PE -53.5" : gray ser phy, altered-looking. C.A. F ₂ = 50° @ 47.1-48.5", 70-75° @ 49, 80° @ 49.7, 70° @ 50.2, 60° @ 50.8, 70° @ 51.7, 75-80° to 53.5" F ₁ local, sub-v. to F ₂ .	0.9 / 1.4 0.45 / 0.9 4 / 4.1		47.1	48.5 49.4 53.5					1.5 Pb @ 50.3-51.05" est.						

J. Chou

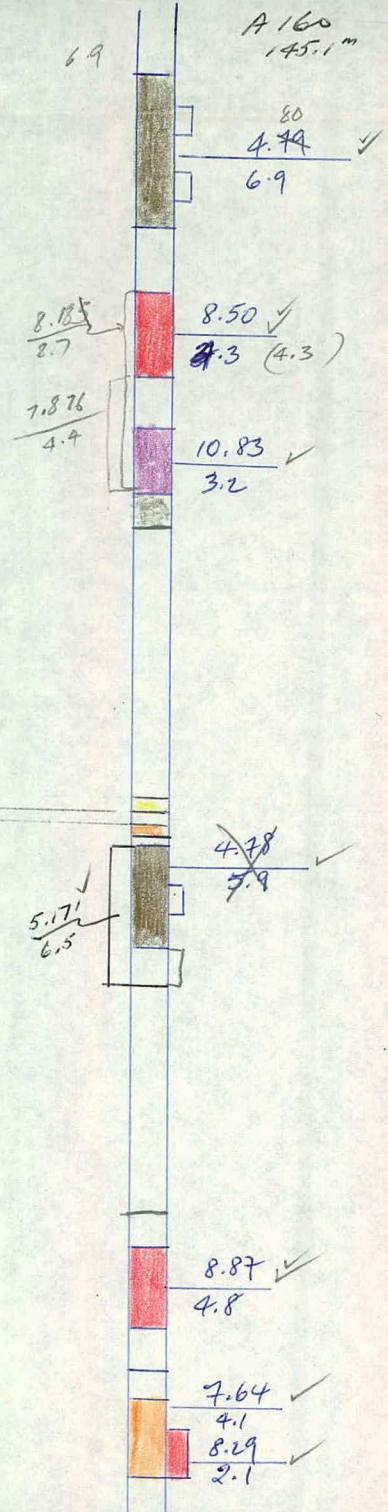
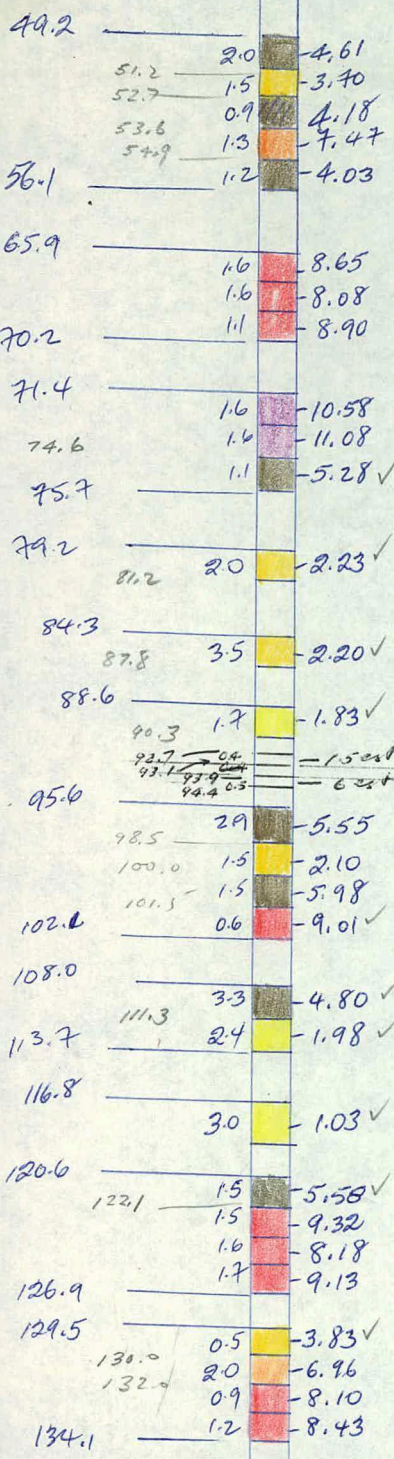
Interval		DESCRIPTION	Recovery	Sample No	Interval		Sample Length	Assay					Assay x				
From	To				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag		
53.5	57.0	Qtz-Ser Py (Sb) Bleached Belt 50% Qtz, 0.5 py local, sp. Pt local. Sericitic, banded. C.A. F ₂ = 65-70°. F ₁ local, fair, 90° to F ₂ .	3.5 / 3.5		53.5	57.0											
57.0	66.4	Qtz-Ser ± GRAPH (S) Light to Med Gray. 50-60% Qtz, locally 1-3% graph. Thinly banded, fissile. Section fractured, many narrow shears generally following foliation planes. Streaming + faulting most severe @ 62.3-62.8" and @ 66.4-66.7". 20% Qtz veining @ 65.4-66.4". C.A. F ₂ = 75-85-75°. F ₁ sub-v F ₂ @ 63-65.4".	4.2 / 4.6 1.1 / 1.5 3.3 / 3.3		57.0	61.6 63.1 66.4											
66.4	72.4	Qtz-Sulph-Ser (Ps) Intervals of sulph-rich Qtz-Sulphs plus much less sulph Qtz-Ser Sulphs. C.A. 60-50-60°.	P ₁ P ₂ 0.9 / 1.2 0.55 1.5 1.1		66.4	67.6 70.7 72.2 73.6											
72.4	76.6	MASSIVE MINERALIZATION OF SULPHIDES (M) Massive, quartz sections siliceous + hard. 1-3 PZ except: 71-72", 60 Py, 6 PZ. 73-73.8, 75 Py, 10 PZ. 76-76.5, 70 Py, 14 PZ. C.A. 50° Compositional banding.	1 0 20 4 53 6 55 3 55 5 75 7 7 15 0 0		73.5	73.6 75.1 76.6 77.8 78.0											
					WT. Av. 70.7	75.1	4.4	3.09	Pt 2n								
					WT. Av. 73.5	76.6	3.1	3.15	2.72	4.11				9.78	8.44	127.48	



Interval		DESCRIPTION	Recovery	Sample No	Interval		Sample Length	Assay					Assay x				
From	To				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag		
		$0^{\circ} 20-0^{\circ}$ @ 76.5 - 79", 70° @ 80"															
80.3	91.2	QTB - Ser Py (S) Med Gray. 60-65 gtz. Banded, well foliated, fissile. Many gtz veinlets. Slips common. Two or more narrow shears per meter of core, generally follow F ₂ plane, often gouged. Larger shears or faults @ 84.4 - 85" and 88.5 - 89.5", the latter mainly gouge. C.A. F ₂ = 65° @ 81.3", F ₂ trace @ 80.5, 75° @ 81-84", 65° @ 84.2, 35° @ 85.5, F ₂ trace @ 85.6. 65° @ 87-88.5, 70° @ 90, 55° @ 90.5, 75° @ 90.6". F ₁ = sub v to F ₂ , good to poor, local.	7.1 / 7.3 1.4 / 1.9 1.7 / 1.7		80.3	87.6											
91.2	94.2	QTB - SULPH - GRAPH (P) 75% gtz, 7 py, 6 PZ. Siliceous + hard. Brecciated @ 92 - 92.7" + well bedded, also @ 92.9 - 93.2; both show lower sulphides. 93.7 - 97.2" - 2% ser, no graphite. F ₂ mineralization. C.A. F ₂ = 40° @ 91.2", 30° @ 92.8, 40° @ 93.4 - 92.5". F ₁ = 80° to F ₂ @ 92". Upper contact @ 40° // F ₂ , lower contact a tight slip @ 85° to F ₂ (45° to core).	1.5 1.5	A 5360 5378	91.2	92.7	1.5	2.53	4.70	37.37			3.80	4.05	56.06		
						94.2	1.5	2.20	4.45	36.34			3.30	6.68	54.51		
				WT AV.	91.2	94.2	3.0	2.37	4.58	36.86			4.10	13.93	110.57		
				" "	91.2	94.9	3.7	1.92	3.71	29.9							

J. L. Brown

Interval		DESCRIPTION	Recovery	Sample No	Interval		Sample Length	Assay					Assay x													
From	To				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag											
		56.5"																								
57.2	62.2	Qtz - Ser ± Crct ± Mc (Skt) <i>Grayish-White</i> Massive, siliceous & hard. Practically unfoliated rock. 60.4-61" : gray sericitic phy. C.A. 75-90°. F ₁ noted @ 58.1-58.8" (noses?)	5/5.0		57.2	62.2																				
62.2	65.0	Qtz - Ser Phy (S) <i>Med. Gray.</i> 50-60% Qtz, thinly laminated, mod. fractured w/ Qtz-ankerite filled. Possible stream contact @ 65" 65.2" C.A. F ₂ = 70-80°, 55° @ contact (64.6-65") F ₁ = 60° to F ₂ @ 64", not evident elsewhere.	2.5/2.8		62.2	65.0																				
65.0	65.9	Qtz - Ser Phy (Sb) <i>Bleached Buff.</i> Sericitic, slightly talcy; 50% Qtz veins. C.A. F ₂ = 85° @ 65.2", 45° @ 65.8"	0.86/0.9		65.0	65.9																				
65.9	70.2	Qtz - Sulphides - Ser ± Graph (Psa F) 75-80% Qtz, siliceous & hard. 5-10% ser, 1 graph @ 69.2-70.2" A1. 5 py, 5.5 Pz. Upper contact // F ₂ = 45°, lower // F ₂ = 75° C.A. F ₂ = 70° @ 66", 80° @ 66.4-69.8, 75° @ 70" F ₁ = 70° @ 68.3, 90° @ 69.9; F ₁ noses & closures @ 66.4 & 70"	<table border="1"> <tr> <td>Py</td> <td>Pz</td> <td>Psz</td> </tr> <tr> <td>5</td> <td>5.5</td> <td>1.6</td> </tr> <tr> <td>5</td> <td>5.5</td> <td>1.6</td> </tr> <tr> <td>5</td> <td>4.5</td> <td>1.0</td> </tr> </table>	Py	Pz	Psz	5	5.5	1.6	5	5.5	1.6	5	4.5	1.0		65.9	70.2	1.6	2.50	6.15	41.49		4.00	9.84	66.38
Py	Pz	Psz																								
5	5.5	1.6																								
5	5.5	1.6																								
5	4.5	1.0																								
					69.1	70.2	1.6	3.23	4.85	48.34		5.17	7.76	77.34												
					70.2	70.2	1.1	2.90	6.00	51.43		3.19	6.60	56.57												
					WT. Av.	65.9	70.2	4.3	2.87	5.63	46.58		12.36	24.20	200.29											



Interval		DESCRIPTION	Recovery	Sample No	Interval		Sample Length	Assay					Assay x				
From	To				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag		
114.3	116.8	Qtz - Graph Py (G)															
		Rock is contorted, 60% brecciated & healed, many tight shears or slips. One shear @ 115.6 - 115.8" show gouge & brecciation. 5% Qtz intrusion.	2.5 / 2.5		114.3	116.8											
116.8	119.8	Qtz - Ser - Sulphs (SBP) Bleached Buff. Py, Pz															
		53% Qtz, 0-40 py (av. 5%) occurring in widely separated bands & splashes, 0.3 Pz occurring w/ py also w/ sections of Qtz-sulphs. C.A. $\beta_2 = 10^\circ @ 117"$, $0^\circ @ 117.2"$, $20^\circ @ 117.7"$, $30^\circ @ 118.2"$, $70^\circ @ 118.9"$. $F_1 = 90^\circ$ to $F_2 @ 117.4, 117.8"$	2.8	A 573 ^B	116.8	119.8	3.0	0.55	0.48	8.23	✓						
119.8	120.6	Qtz - Ser - Monoposite (SB) Bleached Buff.															
		Buff w/ foliations of monoposite (8%). $F_2 = 70-80^\circ$	0.8 / 0.8		119.8	120.6											
120.6	126.9	Qtz - Sulphs - Ser (Ps) Buff white Py, Pz															
		Varied sulph mineralization. Mainly F_2 min'g'n.															
		120.6 - 120.8" : White Ser phy, 3 py, 2.5 Pz															
		- 121.2 = Gray Graph. Phy, 3 py, 4 Pz															
		- 121.55 : White Ser phy, 2 py, 4 Pz															
		- 121.7 : Black Graph. Phy. 1 py, no Pz.															
					WT/AV	122.1	126.9	4.8	3.26	5.61	53.49			15.67	26.92	256.75	

[Signature]

Interval		DESCRIPTION	Recovery	Sample No	Interval		Sample Length	Assay					Assay x				
From	To				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag		
		- 122.1 : Buff Ser Phy, 2 py, 0.3 PZ.															
		- 122.9 : Qtz-Sulph-Ser, 10 py, 1 po, 3 PZ.															
		- 123.4 = Qtz-Sulph, 4 py, 10 po, 3 PZ.															
		- 123.6 = Mass. Sulph, 80 py, 4 PZ.															
		- 126.9 = White, Qtz-Sulph-Ser, 8 py, 5.5 PZ, spot P.															
		C.A. F ₂ = 70° . Upper & lower contacts // F ₂ .															
		F ₁ = 90° to F ₂ @ 121 ^m , F ₁ noses @ 124-125.1 ^m ,															
		90° to F ₂ @ 125.8, 30° @ 126.3-126.5 ^m .															
126.9	129.5	Qtz-Ser-Cal-Calc Phy (Ser) Dull Green 45% qtz, 25 chl, 1-2 calc. Massive, soft. 1-5 mm bands quartzite py, Pb, Zn @ 128.3-129 ^m . C.A. 60-65° F ₂ .	2.6 2.6		126.9	129.5											
129.5	134.1	Qtz-Sulphs-Ser-Graph (Pgs)															
		129.5-130.1 ^m : Buff-White Ser interbedded w/ Qtz-Sulphs (2.5 PZ)	1	1	0.5	578B	129.5	130.0	0.5	1.18	2.65	17.14	✓				
		- 132.0 = Gray Qtz-Sulph-Graph, 3 py, 5 PZ.	3	5	1.7	579B		132.0	2.0	2.10	4.86	32.23		4.20	9.72	64.46	
		- 134.1 = Mass. Sulph bands w/ Qtz-Sulphs, 20 py, 7 PZ, 1 P.	8	6	0.5	580B		132.9	0.9	2.45	5.35	44.23		2.48	4.82	39.81	
		C.A. F ₂ = 65° @ 129.5-132 ^m .	25	8	0.55	581B		134.1	1.2	3.13	5.30	43.20		3.76	6.36	51.84	
		F ₁ = 40-90° to F ₂ @ 130-132 ^m .															
						WT. Av.	130.0	134.1	4.1	2.55	6.10	38.08		10.44	20.90	156.11	
							132.0	134.1	2.1	2.97	5.32	43.64		6.24	11.18	91.65	

DIAMOND DRILL RECORD

LOGGED BY J. L. [Signature]

Calc. checked Dec 22/76

Calculations ✓

D.D.H. NO 76-A161 PAGE 1 of 6

PROPERTY GRUM JOINT VENTURE, Y.T.

COORDS 10,979.27 GRID 4

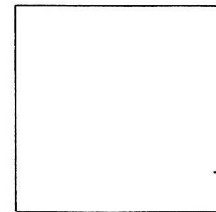
LATITUDE 10,979.27 STARTED Sept. 19/76 N.S.

DEPARTURE 7,628.07 78 W COMPLETED Sept. 22/76 D.S.

ELEVATION 1312.49 Surface PROPOSED DEPTH 125"

ULTIMATE DEPTH 122.2"

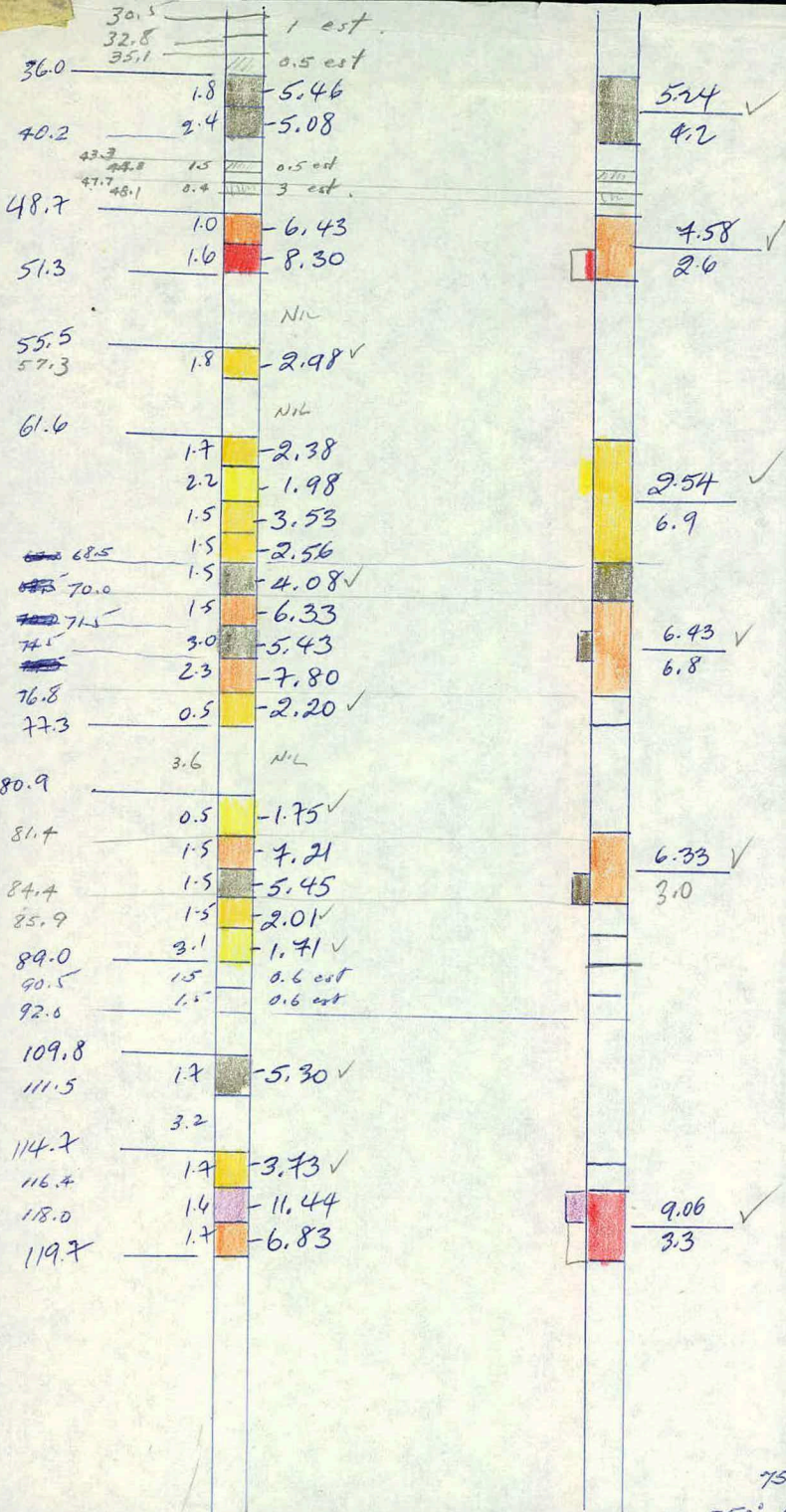
HOLE SURVEY:		
DEPTH	BEARING	DIP
Collar	N44E	-51°
80' (24.4")	use 044°	-53°
140' (42.7")	044	-51°
307' (93.6")	054	-53°



CLAIM NO _____

DIRECTION AND DISTANCE FROM N.E. CLAIM POST

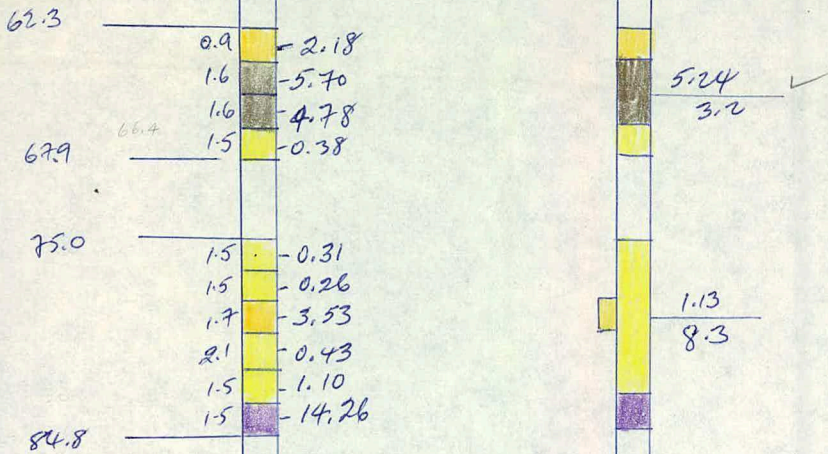
Interval		DESCRIPTION	Recovery Meter	Sample No	Interval		Sample Length	Assay					Assay x Meter				
From	To				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag		
0	30.5	OVERBURDEN (Trimmed). A few pieces of greenstone & ptz recovered			0	30.5											
30.5	32.8	QTZ-SER-SULPHS (SBP) Bleached Buff 60% qtz, 1PY, 1PZ. Minor rust top 1". C.A. = 50°	0.35 / 2.3		30.5	32.8											
32.8	35.1	TALC - QTZ - CHL - SER - MARIPOSITE (TCS) Green, Cream. 32.8 - 33.4": Talc - Chl - Qtz, soft - 34.2": Talc - Mariposite - Ser, soft. - 35.1": Talc - Ser - Qtz, soft, 5% leached, 1% rust. C.A. 30° @ 33 - 33.4", 50° @ 33.9, 25° @ 35"	0.6 / 0.7 0.65 / 1.6		32.8	35.1											
35.1	36.0	QUARTZ - SERICITE - SULPHIDES (SBP) Bleached Buff 60% leached, 50% med. brown rusty fractures. Note PZ in qtz banding. (As 30.5 - 32.8"). Soft + friable.	0.18 / 0.9		35.1	36.0											
36.0	41.0(?)	QTZ - SULPHS - GRAPH (Pa) 70-75% qtz, 3PY, 3PZ. Siliceous, highly fractured, most fracture show med. brown rusty oxidation.	0.65 / 0.5	WT. AV.	36.0	40.2	4.2	1.69	3.55	31.50			7.11	14.90	132.28		
				A 582 B	36.0	37.8	1.8	1.78	3.68	33.26			3.20	6.62	59.87		
				583 B		40.2	2.4	1.63	3.45	30.17			3.91	8.28	72.41		



75-A161
-50° (122.2°)

J. L. Shaw

Interval		DESCRIPTION	Recovery	Sample No	Interval		Sample Length	Assay					Assay x					
From	To				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag			
51.3	54.1	Qtz - Sulphs (SBP) Banded buff. 60% qtz, irregular spaced bands of py w/ Pz. Locally leached w/ vug holes. Av. 8% py. C.A. 70-65°	1.7 / 2.8		51.3	54.1												
				WT. Av.	61.6	68.5	6.9	2.54	Ptzn									
				"	68.5	76.8	6.8	2.09	4.34	35.24			14.19	29.54	239.64			
				"	7'													
54.1	55.5	FAULT Dark gray gouge, breccia & crushed phyllite.	0.6 / 1.2		54.1	55.5												
55.5	89.0	Qtz - Sulphs - Graph (Pa) 70-80% qtz, 0-20% (Av. 10) py, 0-7.5 Pz. Banded, mainly disseminated sulphs within quartzose bands. Siliceous but parts readily along F2. Chiefly F2 mineralization. 57.3-60": Negl sulphs, sericitic; fractured. 60-61.6" probable shear. C.A. F2 = 50-60° @ 55.5-66.7", 75-80° @ 66.8-67.5", 60° @ 67.9-73.8, 80° @ 74.5, 75-70° @ 77-89" F1 = 60-90° to F2 @ 57.2, 58.1, 59.7, 63.2, 65.5-74", 70-89" (excellent F1)	Py Pz	5 4	1.35	A-586B	55.5	57.3	1.8	0.95	2.03	17.14	✓					
				0.8 / 1.2			58.5											
				0.5 / 1.5			60.0											
				0.14 / 1.6			61.6											
				0.5 / 4 15	A-587B		63.3	1.7	0.90	1.48	14.74		2.38	Ptzn				
				0.9 / 7 3	588B		65.5	2.2	0.85	1.13	14.74		1.98	"				
				1.3 / 10 3	589B		67.0	1.5	1.30	2.23	21.26		3.53	"				
				1.05 / 15 5.5	590B		68.5	1.5	0.83	1.73	17.14		2.56	"				
				1.45 / 20 7	591B		70.0	1.5	1.28	2.80	25.37	✓						
				1.2 / 20 7.5	592B		71.5	1.5	1.48	4.55	31.20		2.67	6.83	46.80			
				0.95 / 20 2	593B		74.5	3.0	2.23	3.20	33.26		6.69	9.60	99.78			
				0.25 / 20 8	594B		76.8	2.3	2.10	5.70	40.46		4.83	13.11	93.06			
				0.5 / 5 0.6	595B		77.3	0.5	0.80	1.40	15.09	✓						



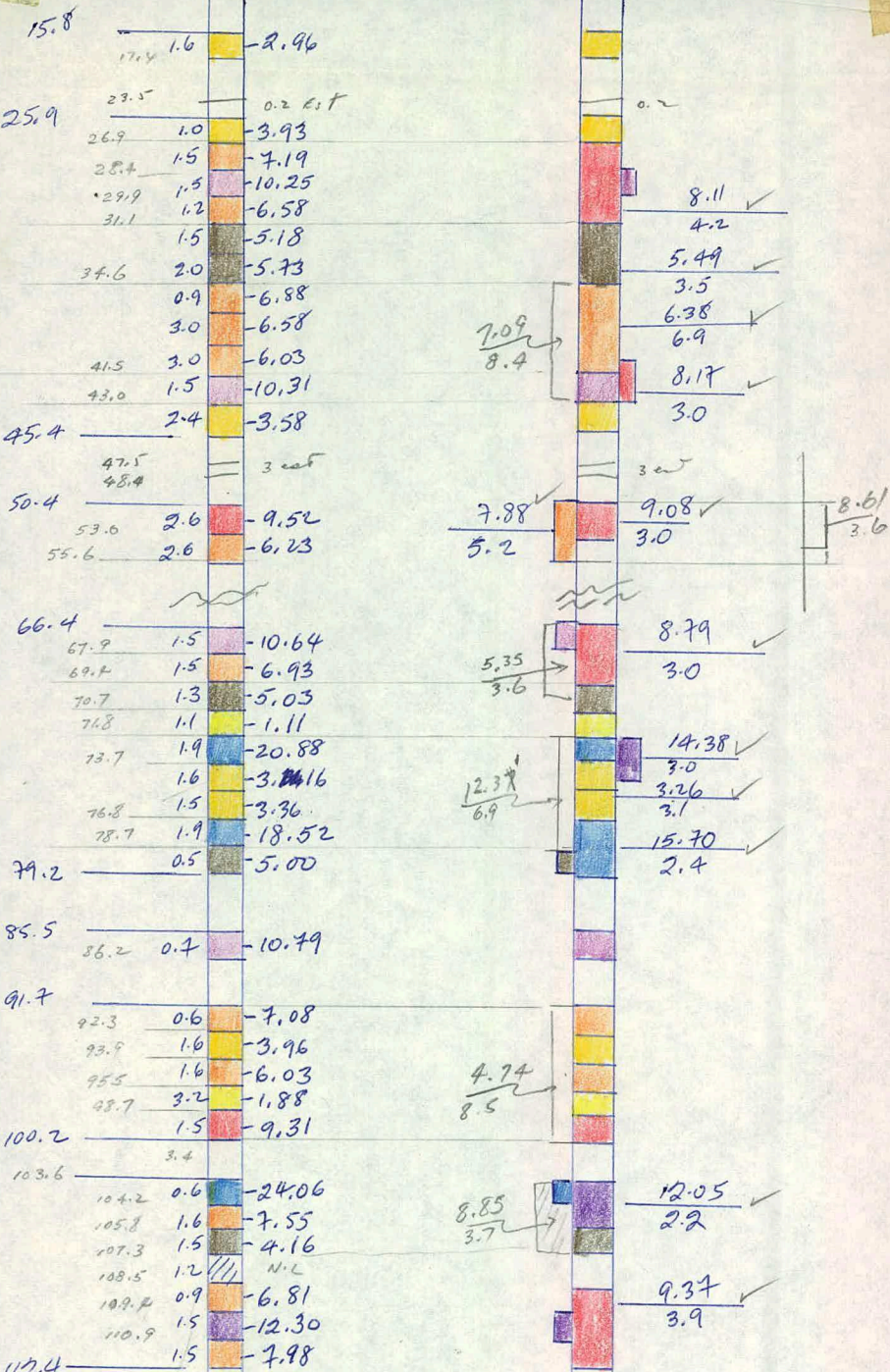
DDH A162
P3

[Signature]

Interval		DESCRIPTION	Recovery	Sample No	Interval		Sample Length	Assay					Assay x			
From	To				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag	
62.3	63.2	Qtz - Sulphs - Ser (SBP) Massive sulph bands mixed w/ bleached, barren sericite. Zone appear to have been sheared & contorted. Au. 45 py, 4 PZ. C.A. 70-20°	0.9	A 705B	62.3	63.2	0.9	1.15	1.03	17.14	✓		1.035	0.927	15.42	
63.2	67.4	MASSIVE, Sulph - Qtz - Ser (M) Disseminated pyrite in gtz ser (buff) and mass. py/gtz and 0.2-6% PZ. Mag = 0.2-1% @ 63.3 - 66" C.A. 70-75°. F1(?) = 25° @ 67.5"														
			1.6	A 706B	63.2	64.8	1.6	3.10	2.60	39.43	✓		1.96	4.16	63.09	
			1.6	707B		66.4	1.6	3.20	1.58	48.34	✓		5.12	2.53	77.34	
			1.5	708B		67.9	1.5	0.13	0.25	8.23	✓		0.125	0.375	12.34	
					62.3	66.4	4.1	2.71	1.85	38.0			11.11	7.617	155.85	
				WT. Av.	63.2	66.4	3.2	3.15	2.09	43.88			10.08	6.69	140.43	
67.4	82.0	Qtz - Sulph - Graph (Pg) Massive, siliceous & hard. 25-40% pyrite 0.1% PbZn. Good F1 & F2. C.A. F2 = 75° @ 67.6" (F1 90° to F2), F2 90° (F1 45° to F2) 68.2", F2 40° (F1 40° to F2) @ 69.6-71", F2 60° (F1 50° to F2 or 30° to core) @ 72.6", F2 85° (F1 45° to F2 or 30° to core) @ 74.3", F2 = 85° @ 75"-77.6", 70° @ 78-81". 75.5-76.5" = 30% porous														
			2.2		67.9	70.1										
			3.1			73.2										
			2.2			75.0										
			0.8	A 709B		76.5	1.5	0.13	0.18	9.94						
			1.5	710B		78.0	1.5	0.13	0.13	5.14						
			1.7	711B		79.7	1.7	2.50	1.03	42.51						
			1.6	712B		81.8	2.1	0.20	0.23	4.89						
					(81.6	81.8	0.2)						0.4	0.46	1.58	
					80.5	81.4	(1.3)						0.26	0.299	10.25	

J. Chen

Interval		DESCRIPTION	Recovery	Sample No	Interval		Sample Length	Assay					Assay x				
From	To				From	To		Pb	Zn	Ag	Au	Cu	Pb	Zn	Ag		
15.8	17.4	Qtz-Sulph-Ser (P ₅₀) Bleached Buff.															
		Poor recovery, chips + ground core of Qtz-sulph plus 4 cm of Qtz vein. Possible muddy seam. F ₂ = 70°	0.15	A 715 ^B	15.8	17.4	1.6	1.83	1.13	20.23	✓						
17.4	23.5	TALC - CHLORITE-Qtz (Tc)															
		Massive, soft, white w/ green tenses + blebs chlorite.	1.0 / 1.5		17.4	18.9											
		C.A. F ₂ = 60° @ 17.6 - 18.5 - 21.5"	0.12 / 0.6			19.5											
		F ₁ = (45° to F ₂ @ 19.8)? = 11 core.	2.1 / 2.4			21.9											
		Splash of galena @ 21.6"	0.04 / 1.6			23.5											
23.5	25.9	Qtz Ser PH4 (Sb) Bleached Buff.															
		45-60% Qtz, < 0.1% py, 0.2 PZ.	2.0 / 2.4		23.5	25.9		0.2 PZ, est.									
		Phyllitic breccia @ 24.75 - 25". Qtz vein @ 24.1 - 24.75"															
		C.A. F ₂ = 50°. F ₁ = 90° to F ₂ @ 23.4"															
25.9	43.0	Qtz - Sulphs - Graph ± Ser (Pats)															
		70-85% Qtz, 1-10 py, 0.5-8 PZ, highly variable.	2 / 1.5	A 716 ^B	25.9	26.9	1.0	1.58	2.35	22.29	✓						
		Generally, dissem. sulphs in Qtzase bands in F ₂ , also in F ₁	10 / 4.5	717 ^B		28.4	1.5	4.03	3.16	42.51		6.05	4.74	63.77			
		34.6 - 36.9": no graph, a few foliations of buff ser.	10 / 8	718 ^B		29.9	1.5	4.80	5.45	50.40		4.20	8.18	75.6			
		Rock siliceous + hard, more phyllitic sections parts readily	1 / 4	719 ^B		31.1	1.2	2.48	4.10	33.26		2.98	4.92	39.91			
		as 25.9 - 29.5". Generally, 1-4% graph-ser.	1 / 3	720 ^B		32.6	1.5	2.63	2.55	30.17		3.95	3.83	15.26			
		38.1 - 40.1": brecciated.	15 / 6	721 ^B		34.6	2.0	2.78	2.95	35.31		5.56	5.90	70.62			



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