

MAP No.

105 0 1

ASSESSMENT REPORT
N. M. E. A. P.
CONFIDENTIAL
OPEN FILE

I.S.N. 134633

TYPE OF WORK: MAYO M.D.
DRILL LOGS

REPORT FILED UNDER	HUDSON BAY EXPLORATION	DOCUMENT NO. 091709
DATE PERFORMED	1967 1970	DATE FILED: 1967 1970
LOCATION - LAT.	63°08'	AREA: MacMillan Pass.
LONG.	130°06'	
CLAIM NO.	TOM CLAIMS	
VALUE \$		
WORK DONE BY	HUDSON BAY I. Young	
WORK DONE FOR	HUDSON BAY EXPLORATION AND DEVELOPMENT Co. Ltd.	
REMARKS	Diamond drill logs and assays are contained in this file, but no report is given. It is believed that these are underground drill logs. #1 Tom	

TOM PROPERTY

UNDERGROUND
DRILLING : ASSAY LOG.

091709

Form No. 504-R1-0M-645-G.P. HUDSON BAY EXPLORATION AND DEVELOPMENT CO. LTD.

DIAMOND DRILL RECORD

Date Began August 19, 1970 Date Completed Aug. 20, 1970

Property Tom Claims Project No. Depth 2250'
Hole No. U-2 Co-ord N 79750-75 Horizontal Length 2250'
Sheet No. One E 51051-12 Direction N 70° 39' E
Claim No. Tom #5 Elevation 4754.49 Angle 0°

CORRECTED DIP TESTS

I. Young

Resident Geologist.

Claim No. 10M #2		Elevation 472444		Width X Assay		Averages									
DEPTH	NUMBER	WIDTH	AU	AO	CU	ZN	PB	NI	WIDTH	AU	AO	CU	ZN	PB	NI
0.0-3.2	Waste	3.2													
3.2-3.9	L.C.	0.7													
3.9-4.4	Waste	0.5													
4.4-5.0	L.C.	0.6													
5.0-6.8	Waste	1.8													
6.8-7.6	L.C.	0.8													
7.6-10.7	Waste	3.1													
10.7-12.7	L.C.	2.0													
12.7-14.4	Waste	1.7													
14.4-15.0	L.C.	0.6													
15.0-18.4	Waste	3.4													
18.4-19.1	L.C.	0.7													
19.1-21.0	Waste	1.9													
21.0-21.7	L.C.	0.7													
21.7-24.0	Waste	2.3													
24.0-24.6	L.C.	0.6													
24.6-25.1	Waste	0.5													
25.1-25.8	L.C.	0.7													
25.8-30.4	Waste	10.6													
30.4-37.1	L.C.	0.7													
37.1-40.0	Waste	2.9													
40.0-41.4	L.C.	1.4													
41.4-46.8	Waste	5.4													
46.8-48.1	L.C.	1.3													
48.1-83.3	Waste	35.2													
83.3-85.7	L.C.	2.4													
85.7-86.4	30019	0.7	1.96		16.72	7.2									
86.4-88.9	Waste	2.5													
88.9-90.5	30020	1.6	.44		2.00	1.30									
90.5-91.8	Waste	1.3													
91.8-95.0	30021	3.2	.52		16.28	14.0			1.664	52.096	44.8				
95.0-96.3	L.C.	1.3	7.86		18.92	27.00			10.218	24.596	36.1				
96.3-96.9	30022	0.6	15.2		21.56	40.0			9.12	12.936	24.0				

Form No. 504-R1-0M-645-G.P. HUDSON BAY EXPLORATION AND DEVELOPMENT CO. LTD.

DIAMOND DRILL RECORD

Date Began August 16, 1970 Date Completed Aug. 18, 1970

Property Tom Claims Project No. Depth 145.0
Hole No. U M H NO. 1 U.G. Co-ord 78° 18' 0" N Horizontal Length 144.8
Sheet No. One 31068-34 Direction N 44° 46' 30" E
Claim No. Tom #5 Elevation 4754.89 Angle -2°

CORRECTED DIP TESTS

Resident Geologist.

		ASSAY						WIDTH X ASSAY						AVERAGES					
DEPTH	NUMBER	WIDTH	AU	AG	CU	ZN	PB	NI	WIDTH	AU	AG	CU	ZN	PB	NI				
0.0-47.8	Waste	47.8																	
47.8-52.8	30001	5.0	5.56			11.88	16.2		21.800	59.400	81.0								
52.8-54.0	30002	1.2	9.28			5.94	33.8		11.136	7.128	40.56								
54.0-55.0	L.C.	1.0	8.18			24	29.4		8.180	9.240	29.40								
55.0-56.0	30003	1.0	7.08			12.54	25.0		7.080	12.540	25.00								
56.0-56.6	L.C.	0.6	6.46			9.90	22.8		3876	5.94	13.08								
56.6-57.6	30004	1.0	5.84			7.26	20.6		5.840	7.26	20.60								
57.6-58.5	L.C.	0.9	3.98			10.89	11.8		3.582	9.801	10.62								
58.5-63.6	30005	5.1	2.12			14.52	3.10		10.812	740.52	15.81								
63.6-64.4	L.C.	0.8	1.35			11.22	2.6		1.090	8.976	2.08								
64.4-67.8	30006	3.4	0.58			7.92	2.10		1.972	26.928	7.14								
67.8-69.0	L.C.	1.2	.60			4.89	6.05		.720	5.868	7.24								
69.0-74.0	30007	5.0	0.62			1.86	10.00		3.100	9.300	50.00								
74.0-79.0	30008	5.0	1.44			3.72	6.60		7.200	18.600	33.00								
79.0-84.0	30009	5.0	3.72			10.56	7.4		18.600	52.800	37.00								
84.0-89.0	30010	5.0	2.96			6.82	7.6		14.800	34.100	38.00								
89.0-94.0	30011	5.0	2.56			6.82	5.8		12.800	34.100	29.00								
94.0-99.0	30012	5.0	5.32			16.10	8.2		26.600	82.500	41.00								
99.0-100.8	30013	1.8	9.72			18.70	21.6		17.496	33.660	38.88								
100.8-102.9	30014	2.1	13.24			16.72	35.8		27.804	35.112	75.18								
102.9-107.9	30015	5.0	6.56			2.22	24.4		32.800	11.100	122.00								
107.9-112.7	30016	4.8	3.96			4.84	14.2		19.008	23.232	68.16								
112.7-113.9	L.C.	1.2	5.54			12.54	16.3		6.648	16.048	19.56								
113.9-118.9	30017	5.0	7.12			20.24	18.4		35.600	101.20	92.00								
118.9-121.9	30018	3.0	5.92			18.90	13.4		17.760	56.10	40.20								
121.9-145.0	Waste	23.1																	
End Hole									74.1		4.35		8.68	12.65					
									322.304	642.935	937.13								

091709

091709

ASSAY RECORDS

DIAMOND DRILL RECORD

Date Begun August 19, 1970. Date Completed Aug. 26, 1970

Property TOM CLAIMS Project No. Depth 2250'
Hole No. UDH U-2 Co-ord N 79750.75 Horizontal Length 2250'
Sheet No. Two E 51051.12 Direction N 70°39'
Claim No. Tom #5 Elevation 4754.49 Angle 0°

I. Young

Resident Geologist.

Claim No.	Core #	Elevation	Angle	ASSAY					Width X Assay	AVERAGES						
DEPTH	NUMBER	WIDTH	AU	AG	CU	ZN	PB	NI		WIDTH	AU	AG	CU	ZN	PB	NI
96.9-98.38	30023	1.9		3.24		9.46	12.8		6.156 17.974 24.32							
98.8-109.4	waste	10.6							7.0' 18.950 109.602 128.22	7.0'		2.70		15.37	18.32	
109.4-110.7	L.C.	1.3														
110.7-117.1	waste	6.4														
117.1-118.4	L.C.	1.3														
118.4-130.6	waste	12.2														
130.6-131.3	L.C.	0.7														
131.3-132.1	waste	0.8														
132.1-132.8	L.C.	0.17														
132.8-133.7	waste	0.9														
133.7-134.3	L.C.	0.6														
134.3-135.0	waste	0.7														
135.0-135.7	L.C.	0.17														
135.7-154.8	waste	19.1														
154.8-155.5	30024	0.7		.68		1.16	1.50		11.664/37.422/29.16							
155.5-158.2	30025	2.7		4.32		13.86	10.8		.072 .180							
158.2-160.0	30027	1.8		TR		.04	.10		13.680/15.504/47.88							
160.0-163.8	30026	3.8		3.60		4.08	12.6		8.3' 25.344/52.998/77.22	8.3'		3.05		6.38	9.2	
163.8-166.7	waste	2.9														
166.7-167.3	L.C.	0.6														
167.3-168.0	waste	0.7														
168.0-168.7	L.C.	0.7														
168.7-171.0	waste	2.3														
171.0-171.4	L.C.	0.4														
171.4-172.7	waste	1.3														
172.7-173.2	L.C.	0.5														
173.2-176.8	waste	3.6														
176.8-177.7	30028	0.9		2.50		Ta	12.30									
177.7-181.2	waste	3.5														
181.2-181.9	L.C.	0.7														
181.9-183.0	waste	1.1														
183.0-183.3	L.C.	0.3														
183.3-184.7	30029	1.4		.74		Ta	3.30									

DIAMOND DRILL RECORD

Date Begun August 19, 1970. Date Completed Aug. 26, 1970

Property TOM CLAIMS Project No. Depth 2250.0
Hole No. U-2 Co-ord N 79750.75 Horizontal Length 225.0
Sheet No. Three E 51051 Direction N 70°39'
Claim No. Tom #5 Elevation 4754.49 Angle 0°

I. Young

Resident Geologist.

			ASSAY						WIDTH X ASSAY						AVERAGES						
DEPTH	NUMBER	WIDTH	AU	AG	CU	ZN	PB	NI							WIDTH	AU	AG	CU	ZN	PB	NI
184.7-185.0	L.C.	0.3																			
185.0-186.0	waste	1.0																			
186.0-186.4	L.C.	0.4																			
186.4-193.0	waste	6.6																			
193.0-194.1	30030	1.1		.88		2.64	2.10			968	290	231									
194.1-198.6	30031	4.5		3.53		2.40	11.8			1522	10.53	23.12									
198.6-199.1	waste	0.5								12833	13.70	35.41		56'		3.01		2.44	9.29		
199.1-200.0	L.C.	0.9																			
200.0-201.1	waste	1.1																			
201.1-201.7	L.C.	0.6																			
201.7-205.0	waste	3.3																			
205.0-205.8	L.C.	0.8																			
205.8-206.8	waste	1.0																			
206.8-207.5	L.C.	0.7																			
207.5-211.1	waste	3.6																			
211.1-211.8	L.C.	0.7																			
211.8-213.0	waste	1.2																			
213.0-213.7	L.C.	0.7																			
213.7-215.0	waste	11.3																			

End hole

CORRECTED DIP TESTS

Date Begun August 27, 1970 Date Completed August 27, 1970

Property Tom Claira Project No. Depth 35.0'
Hole No. U.D.H. U-3 Co-ord N 77949.53 Horizontal Length 35.0'
Sheet No. One S 50907.10 Direction N 66° 27%
Claim No. Elevation 4755.97 Angle 0°

Ivan Young

Resident Geologist.

[illegible]

Form No. 504-R1-4M-6-66-G.P. **HUDSON BAY EXPLORATION AND DEVELOPMENT CO. LTD.**

DIAMOND DRILL RECORD

Date Began August 27, 1970 Date Completed Aug. 27, 1970.

Property Tom Clains Project No. _____ Depth 35.0'
Hole No. D.D.H. No. U-3 Co-ord N 77949.53 Horizontal Length 33
Sheet No. Two K 50907.10 Direction N 66° 27 E
Claim No. _____ Elevation 4755.97 Angle 0

CORRECTED DIP TESTS

Ivan Young

Resident Geologist.

[illegible]

DIAMOND DRILL RECORD

Date Began August 27, 1970 Date Completed Aug. 28, 1970

Property Tom Claims Project No. Depth 111.0
Hole No. U.D.H. No. U-4 Co-ord N 77941.79 Horizontal Length 111.0
Sheet No. One E 50892.52 Direction S 66 27W
Claim No. Elevation 4755.97 Angle 0°

CORRECTED DIP TESTS

Ivan Young

Resident Geologist.

			ASSAY								AVERAGES						
DEPTH	NUMBER	WIDTH	AU	AG	CU	ZN	PB	NI			WIDTH	AU	AG	CU	ZN	PB	NI
0.0 - 0.4	30046	0.4	Tr			4.92	1.85		1.96	.74							
0.4 - 1.1	L.C.	0.7	Tr			3.84	8.27		2.68	5.78							
1.1 - 1.5	30047	0.4	.29			2.76	14.70		1.10	5.88							
1.5 - 2.1	L.C.	0.6	tr			3.72	8.42		2.23	5.05							
2.1 - 6.3	30048	4.2	.15			4.68	1.95		19.65	8.19							
6.3 - 7.7	L.C.	1.4	tr			4.98	1.27		6.97	1.77							
7.7 - 8.7	30049	1.0	tr			5.28	.59		5.28	.59							
8.7 - 9.3	L.C.	0.6	tr			612	.82		3.67	.49							
9.3 - 10.2	30050	0.9	tr			6.96	1.05		6.26	.94							
10.2 - 10.8	L.C.	0.6	tr			4.42	.67		2.65	.40							
10.8 - 11.7	30051	0.9	tr			1.88	.29		1.69	.26							
11.7 - 16.6	30052	4.9	tr			5.40	1.50		26.46	7.35							
16.6 - 21.6	30053	5.0	tr			4.20	1.40		21.00	7.00							
21.6 - 26.6	30054	5.0	tr			4.32	1.80		21.60	9.00							
26.6 - 31.6	30055	5.0	tr			4.20	2.10		21.00	10.50							
31.6 - 34.6	30056	3.0	tr			4.92	2.00		14.76	6.00							
34.6 - 36.2	30057	1.6	tr			3.48	.86		5.56	1.37							
36.2 - 41.2	30058	5.0	tr			5.16	1.25		25.80	6.25							
41.2 - 42.8	30059	1.6	tr			6.00	1.55		9.60	2.48							
42.8 - 43.4	30060	0.6	tr			.30	.27		.18	.14							
43.4 - 47.4	30061	4.0	tr			4.92	.96		19.68	3.84							
47.4 - 47.9	30062	0.5	tr			.08	.04		.04	.02							
47.9 - 48.5	L.C.	0.6	tr			.81	.20		.48	.12							
48.5 - 49.3	30063	0.8	tr			1.54	.35		1.32	.28							
49.3 - 50.0	L.C.	0.7	tr			3.35	1.10		2.34	.77							
50.0 - 55.0	30064	5.0	tr			5.16	1.85		25.80	9.25							
55.0 - 56.1	30065	1.1	tr			6.48	1.95		7.12	2.14							
56.1 - 56.4	L.C.	0.3	tr			6.00	1.87		1.80	.56							
56.4 - 59.0	30066	2.6	tr			5.52	1.80		14.35	1.68							
59.0 - 59.5	L.C.	0.5	tr			5.58	1.80		2.79	.90							
59.5 - 64.5	30067	5.0	tr			5.64	1.80		28.20	9.0							
64.5 - 69.5	30068	5.0	tr			6.00	1.65		30.00	8.25							
69.5 - 74.5	30069	5.0	tr			6.84	1.65		34.20	8.25							

DIAMOND DRILL RECORD

Date Began August 27, 1970 Date Completed August 28, 1970

Property Tom Claims Project No. Depth 111.0
Hole No. U.D.H. No. U-4 Co-ord N 77941.79 Horizontal Length 111.0
Sheet No. Two E 50892.52 Direction S 66 27W
Claim No. Elevation 4755.97 Angle 0°

CORRECTED DIP TESTS

Ivan Young

Resident Geologist.

DEPTH	NUMBER	WIDTH	ASSAY						WIDTH X ASSAY		AVERAGES					
			AU	AG	CU	ZN	PB	NI			WIDTH	AU	AG	CU	ZN	PB
74.5 - 76.1	30070	1.6	tr			6.60	1.35		10.56	2.19						
76.1 - 76.7	L.C.	0.6	tr			7.80	1.75		4.68	1.05						
76.7 - 81.7	30071	5.0	.15			9.00	2.15		4.50	1.07						
81.7 - 83.4	30072	1.7	.29			13.86	3.10		23.56	5.27						
83.4 - 84.1	30073	0.7	tr			.78	.54		.54	.37						
84.1 - 84.8	30074	0.7	tr			12.00	.51		8.40	.35						
84.8 - 85.3	30075	0.5	tr			1.42	.06		420.46	135.51						
85.3 - 85.9	30076	0.6	tr			6.48	.14				85.3				4.93	1.65
85.9 - 111.0	waste	25.1														

End Hole

DIAMOND DRILL RECORD

Date Began September 10, 1970 Date Completed Sept. 13, 1970

Property Tom Claims Project No. Depth 175.0'
Hole No. U-5 Co-ord 79909.91 N Horizontal Length 175.0'
Sheet No. One 51067.16 E Direction N55° 45'E
Claim No. Elevation 4754.63 Angle 0°

CORRECTED DIP TESTS

Resident Geologist.

DEPTH	NUMBER	WIDTH	ASSAY						WIDTH X ASSAY						AVERAGES						
			AU	AG	CU	ZN	PB	NI	WIDTH	AU	AG	CU	ZN	PB	NI						
0.0 - 15.0	Waste	15.0																			
15.0 - 15.7	L.C.	0.7																			
15.7 - 16.9	waste	1.2																			
16.9 - 17.6	L.C.	0.7																			
17.6 - 19.3	waste	1.7																			
19.3 - 20.0	L.C.	0.7																			
20.0 - 31.9	waste	11.9																			
31.9 - 32.4	L.C.	0.5																			
32.4 - 33.0	waste	0.6																			
33.0 - 33.8	L.C.	0.8																			
33.8 - 36.5	waste	2.7																			
36.5 - 39.0	30078	2.5		1.40		1.26	3.70														
39.0 - 41.5	waste	2.5																			
41.5 - 43.0	30079	1.5		.36		.08	.44														
43.0 - 48.5	waste	5.5																			
48.5 - 50.0	30080	1.5																			
50.0 - 77.4	waste	27.4		.24		.10	.17														
77.4 - 78.1	L.C.	0.7																			
78.1 - 123.0	waste	44.9																			
123.0 - 124.0	L.C.	1.0																			
124.0 - 126.3	waste	2.3																			
126.3 - 127.0	L.C.	0.7																			
127.0 - 130.0	waste	3.0																			
130.0 - 132.3	L.C.	2.3																			
132.3 - 134.1	waste	1.8																			
134.1 - 134.5	L.C.	0.4																			
134.5 - 135.0	waste	0.5																			
135.0 - 135.7	L.C.	0.7																			
135.7 - 139.0	waste	3.3																			
139.0 - 139.5	L.C.	0.5																			
139.5 - 140.0	waste	0.5																			
140.0 - 141.4	L.C.	1.4																			
141.4 - 142.1	waste	0.7																			

DIAMOND DRILL RECORD

Date Began Sept. 10, 1970 Date Completed Sept. 13, 1970

Property Tom Claims Project No. Depth 175.0'
Hole No. U-5 Co-ord 79909.91 N Horizontal Length 175.0'
Sheet No. Two 51067.16 E Direction N 55° 45' E
Claim No. Elevation 4754.63 Angle 0°

CORRECTED DIP TESTS

Resident Geologist.

			ASSAY						WIDTH X ASSAY						AVERAGES							
DEPTH	NUMBER	WIDTH	AU	AG	CU	ZN	PB	NI								WIDTH	AU	AG	CU	ZN	PB	NI
142.1 - 142.5	L.D.	0.4																				
142.5 - 143.7	waste	1.2																				
143.7 - 145.7	L.C.	2.0																				
145.7 - 147.8	waste	2.1																				
147.8 - 148.5	L.C	0.7																				
148.5 - 159.3	waste	10.8																				
159.3 - 160.6	L.C.	1.3																				
160.6 - 175.0	waste	14.4																				

End Hole

DIAMOND DRILL RECORD

Date Begun Sept. 14, 1970, Date Completed Sept. 14, 1970.

Property Tom Clains Project No. Depth 30.01Hole No. U - 26 Co-ord 79903.37 N Horizontal Length 50.0Magnet No. VNO 51055.42 Direction S 59° 45' WClaim No. _____ Elevation 4754.63' Angle Horizontal 0°

Resident Gastroenterologist

ASSAY						WIDTH X ASSAY							AVERAGES						
DEPTH	NUMBER	WIDTH	AU	AG	CU	ZN	PB	NI					WIDTH	AU	AG	CU	ZN	PB	NI
0.0 - 2.2	30081	2.2																	
2.2 - 7.5	30082	5.3																	
7.5 - 10.4	waste	2.9																	
10.4 - 11.0	L.C.	0.6																	
11.0 - 34.8	waste	23.8																	
34.8 - 35.0	L.C.	0.2																	
35.0 - 37.9	waste	2.9																	
37.9 - 38.2	L.C.	0.3																	
38.2 - 50.0	waste	11.8																	
End Hole																			

Form No. 504-R1-4M-6-66-G.P. HUDSON BAY EXPLORATION AND DEVELOPMENT CO. LTD.

DIAMOND DRILL RECORD

Date Began Sept 17, 1970. Date Completed Sept 20 1970.

Property **Tom Claims** Project No. Depth **153.0'**

Hole No. U - 7 Co-ord 79748.99N Horizontal Length 153.01

Sheet No. One 51181.06 E Direction 59°37' 39" NE

Claim No. Elevation 4755.37 Angle Horizontal

Resident Coordinator

[illegible]

DIAMOND DRILL RECORD

Date Began Sept 30, 1970. Date Completed Oct. 6, 1970

Property Tom Claims Project No. Depth 346'
Hole No. U-10 Co-ord N79669.77 Horizontal Length 325'
Sheet No. Two E50970.72 Direction N44°08'E
Claim No. Elevation 4754.33 Angle -20°

CORRECTED DIP TESTS

Resident Geologist.

		ASSAY								WIDTH X ASSAY								AVERAGES							
DEPTH	NUMBER	WIDTH	AU	AG	CU	ZN	PS	NI											WIDTH	AU	AG	CU	ZN	PS	NI
191.5-192.8	waste	1.3																							
192.8-193.5	L.C.	0.7																							
193.5-201.6	waste	8.1																							
201.6-202.3	L.C.	0.7																							
202.3-203.8	waste	1.5																							
203.8-204.5	L.C.	0.7																							
204.5-206.3	waste	1.8																							
206.3-207.0	L.C.	0.7																							
207.0-214.4	waste	7.4																							
214.4-215.0	L.C.	0.6																							
215.0-218.8	waste	3.8																							
218.8-220.6	27131	1.8	88			0.7	1.40																		
220.6-230.0	waste	9.4																							
230.0-231.4	L.C.	1.4																							
231.4-231.9	waste	0.5																							
231.9-232.6	L.C.	0.7																							
232.6-235.4	waste	2.8																							
235.4-236.4	L.C.	1.0																							
236.4-238.4	waste	2.0																							
238.4-238.8	L.C.	0.4																							
238.8-248.5	waste	9.7																							
248.5-249.6	L.C.	1.1																							
249.6-253.8	waste	4.2																							
253.8-255.0	L.C.	1.2																							
255.0-260.2	waste	5.2																							
260.2-260.9	L.C.	0.7																							
260.9-262.3	waste	1.4																							
262.3-263.0	L.C.	0.7																							
263.0-264.0	waste	1.0																							
264.0-264.8	L.C.	0.8																							
264.8-266.6	waste	1.8																							
266.6-267.3	L.C.	0.7																							
267.3-269.3	waste	2.0																							

DIAMOND DRILL RECORD

Date Began Sept. 30, 1970. Date Completed Oct. 6, 1970.

Property Tom Claims Project No. Depth 346'
Hole No. U-10 Co-ord N79669.77 Horizontal Length 325'
Sheet No. Three E50970.72 Direction N44°08'E
Claim No. Elevation 4754.33 Angle -20°

CORRECTED DIP TESTS

Resident Geologist.

Claim No.		Elevation		Angle		ASSAY						WIDTH X ASSAY						AVERAGES					
DEPTH	NUMBER	WIDTH	AU	AG	CU	ZN	PS	NI							WIDTH	AU	AG	CU	ZN	PS	NI		
269.3-270.0	L.C.	0.7																					
270.0-274.5	waste	4.5																					
274.5-275.0	L.C.	0.5																					
275.0-279.7	waste	4.7																					
279.7-280.0	L.C.	0.3																					
280.0-285.4	waste	5.4																					
285.4-286.4	L.C.	1.0																					
286.4-296.1	waste	9.7																					
296.1-296.9	L.C.	0.8																					
296.9-297.9	waste	1.0																					
297.9-298.6	L.C.	0.7																					
298.6-310.9	waste	12.3																					
310.9-311.6	L.C.	0.7																					
311.6-316.5	waste	4.9																					
316.5-317.2	L.C.	0.7																					
317.2-323.5	waste	6.3																					
323.5-324.2	L.C.	0.7																					
324.2-328.2	waste	4.0																					
328.2-331.6	L.C.	3.4																					
331.6-342.1	waste	10.5																					
342.1-343.1	L.C.	1.0																					
343.1-344.7	waste	1.6																					
344.7-345.0	L.C.	0.3																					
345.0-346.0	waste	1.0																					

End Hole

DIAMOND DRILL RECORD

Date Began Oct. 6, 1970 Date Completed Oct. 9, 1970

Property Tom Claims Project No. Depth 199.0'

Hole No. U-11 Co-ord N 79743.88 Horizontal Length 199.0'

Sheet No. One E 511 80.47 Direction S58 11 E

Claim No. Elevation 4755.69 Angle 0°

Resident Geologist.

CORRECTED DIP TESTS

		ASSAY							AVERAGES							
DEPTH	NUMBER	WIDTH	AU	AG	CU	ZN	PB	NI								
0.0 - 6.0	waste	6.0														
6.0-6.8	L.C.	0.8														
6.8-7.2	waste	0.4														
7.2 - 8.2	L.C.	1.0														
8.2 - 14.1	waste	5.9														
14.1 - 14.8	L.C.	0.7														
14.8 - 15.6	waste	0.8														
15.6 - 16.7	L.C.	1.1														
16.7 - 18.1	waste	1.4														
18.1 - 19.0	L.C.	0.9														
19.0 - 19.7	waste	0.7														
19.7 - 20.7	L.C.	1.0														
20.7 - 23.5	waste	2.8														
23.5 - 24.2	L.C.	0.7														
24.2 - 32.1	waste	7.9														
32.1 - 32.8	L.C.	0.7														
32.8 - 33.9	waste	1.1														
33.9 - 35.0	L.C.	1.1														
35.0 - 35.4	waste	0.4														
35.4 - 36.8	L.C.	1.4														
36.8 - 37.4	waste	0.6														
37.4 - 38.8	L.C.	1.4														
38.8 - 51.0	waste	12.2														
51.0 - 52.3	L.C.	1.3														
52.3 - 53.5	waste	1.2														
53.5 - 55.0	L.C.	1.5														
55.0 - 55.5	waste	0.5														
55.5 - 57.4	L.C.	1.9														
57.4 - 61.3	waste	3.9														
61.3 - 62.1	L.C.	0.8														
62.1 - 76.2	waste	14.1														
76.2 - 77.7	L.C.	1.5														
77.7 - 110.9	waste	33.2														

HUDSON BAY EXPLORATION AND DEVELOPMENT CO. LTD.

DIAMOND DRILL RECORD

Date Began Oct. 6, 1970 Date Completed Oct. 9, 1970

Property Tom Claims Project No. Depth 199.0'

Hole No. U-11 Co-ord N 79743.88 Horizontal Length 199.0'

Sheet No. Two E 511 80.47 Direction S58 11 E

Claim No. Elevation 4755.69 Angle 0°

Resident Geologist.

CORRECTED DIP TESTS

		ASSAY							WIDTH X ASSAY		AVERAGES						
DEPTH	NUMBER	WIDTH	AU	AG	CU	ZN	PB	NI			WIDTH	AU	AG	CU	ZN	PB	NI
110.9-112.5	L.C.	1.6															
112.5-118.7	waste	6.2															
118.7-120.0	L.C.	1.3															
120.0-120.6	waste	0.6															
120.6-121.3	L.C.	0.7															
121.3-130.0	waste	8.7															
130.0 - 131.4	L.C.	1.4															
131.4-180.0	waste	48.6															
180.0-181.5	L.C.	1.5															
181.5-182.3	waste	0.8															
182.3-183.1	L.C.	0.8															
183.1-183.5	waste	0.4															
183.5-185.0	L.C.	1.5															
185.0-192.3	waste	7.3															
192.3-193.3	L.C.	1.0															
193.3-199.0	waste	5.7															

End Hole

DIAMOND DRILL RECORD

Date Began Oct. 13, 1970. Date Completed Oct. 14, 1970.

Property Tom Claims Project No. _____ Depth 55.0'
Hole No. U-16 Co-ord N 77728.40 Horizontal Length 55.0'
Sheet No. One E 50910.77 Direction N 64° 36' E
Claim No. _____ Elevation 4757.91 Angle 0°

CORRECTED DIP TESTS

Resident Geologist.

DEPTH	NUMBER	WIDTH	ASSAY						WIDTH X ASSAY			AVERAGES					
			AU	AG	CU	ZN	PS	NI	WIDTH	AU	AG	CU	ZN	PS	NI		
0.0-3.9	27152	3.9		.29		7.68	1.65		1.131	29.95	6.43						
3.9-5.0	L.C.	1.1		.44		6.36	2.07		.484	6.99	2.27						
5.0-6.7	27153	1.7		.59		5.04	2.50		1.003	8.56	4.25						
6.7-8.9	L.C.	2.2		.67		6.48	2.50		1.414	14.25	5.50						
8.9-10.3	27154	1.4		.74		7.92	2.50		1.036	11.08	3.50						
10.3-11.0	L.C.	0.7		.88		7.44	1.77		.616	5.20	1.24						
11.0-12.4	27155	1.4		1.03		6.96	1.05		1.446	9.74	1.47	6.7	10.515		54.94	16.48	
12.4-13.1	L.C.	0.7		1.39		7.80	2.00		.973	5.46	1.44		1.57		8.20	2.46	
13.1-17.7	27156	4.6		1.76		8.64	2.95		8.096	39.74	13.57		16.259		130.97	39.67	
17.7-19.0	L.C.	1.3										17.7	.92		7.40	2.29	
19.0-20.0	waste	1.0															
20.0-23.3	L.C.	3.3				vug											
23.3-24.3	27157	1.0		3.38		11.28	4.40										
24.3-27.2	L.C.	2.9				vug											
27.2-31.7	27158	4.5		.88		.48	3.00										
31.7-32.7	L.C.	1.0															
32.7-36.6	27159	3.9		.59		.26	260										
36.6-55.0	waste	18.4															
End Hole																	

DIAMOND DRILL RECORD

Date Began Oct. 14, 1970. Date Completed Oct. 15, 1970.

Property Tom Claims Project No. _____ Depth 73.0'
Hole No. U-17 Co-ord N 77721.42 Horizontal Length 73.0'
Sheet No. One E 50899.06 Direction S 56° 26' W
Claim No. _____ Elevation 4757.56 Angle 0°

CORRECTED DIP TESTS

Resident Geologist.

ASSAY								WIDTH X ASSAY			AVERAGES							
DEPTH	NUMBER	WIDTH	AU	AG	CU	ZN	PS	NI				WIDTH	AU	AG	CU	ZN	PS	NI
0.0-2.8	27160	2.8		.15		4.56	1.80		.420	12.76	5.04							
2.8-3.5	L.C.	0.7		.15		5.34	1.92		.105	3.74	1.34							
3.5-5.0	27161	1.5		~~.15~~		6.12	2.05		.225	9.18	3.07							
5.0-5.6	L.C.	0.6		.15		5.40	1.90		.090	3.24	1.14							
5.6-10.6	27162	5.0		.15		4.08	1.75		.750	23.40	8.75							
10.6-15.6	27163	5.0		tr		3.72	1.4		-	18.60	7.00							
15.6-20.6	27164	5.0		tr		3.96	1.05		-	19.80	5.25							
20.6-25.6	27165	5.0		tr		4.80	1.15		-	24.00	5.75							
25.6-30.6	27166	5.0		tr		5.76	2.10		-	28.80	10.50							
30.6-35.6	27167	5.0		tr		6.96	1.65		-	33.80	8.25							
35.6-40.6	27168	5.0		tr		7.56	1.95		-	37.80	9.75							
40.6-45.0	27169	5.0		tr		10.92	2.90		-	54.60	14.50							
45.6-48.0	27170	2.4		.15		9.36	2.05		.360	46.80	10.25	48.0		1.950		316.52	90.59	
43.0-73.0	waste	25.0												.041		6.59	1.89	

End Hole

DIAMOND DRILL RECORD

Date Began Oct 17, 1970 Date Completed Oct. 18, 1970

Property Tom Claims Project No. _____ Depth 73.0'
Hole No. U-20 Co-ord N 78298.72 Horizontal Length 73.0'
Sheet No. One E 50738.64 Direction N 65°13' E
Claim No. _____ Elevation 4754.60 Angle 0

CORRECTED DIP TESTS

Resident Geologist.

DEPTH	NUMBER	WIDTH	ASSAY						WIDTH X ASSAY			AVERAGES					
			AU	AG	CU	ZN	PB	NI	WIDTH	AU	AG	CU	ZN	PB	NI		
0.0 - 5.0	27198	5.0	.15		8.40	2.55			.75	42.00	12.75						
5.0 - 10.0	27199	5.0	.15		10.32	4.05			.75	51.60	20.25						
10.0 - 15.0	27200	5.0	.15		4.56	3.45			.75	22.80	17.25						
15.0 - 20.0	30501	5.0	.88		6.12	4.00			4.40	30.60	20.00						
20.0 - 22.0	30502	2.0	2.21		1.90	9.4			4.42	3.80	18.8						
22.0 - 22.7	L.C.	0.7	1.62		2.12	6.2			11.34	14.84	4.34						
22.7 - 27.7	30503	5.0	1.03		2.34	3.08			5.15	11.70	15.25						
27.7 - 31.5	30504	3.8	.88		.10	3.45											
31.5 - 73.0	waste	41.5															
End Hole																	

DIAMOND DRILL RECORD

Date Began Oct. 19, 1970 Date Completed Oct. 25, 1970

Property Tom Claims Project No. _____ Depth 297.0
Hole No. U-21 Co-ord N 19668.24 Horizontal Length 210.0'
Sheet No. One E 50968.96 Direction N 44°48' E
Claim No. _____ Elevation 4746.53 Angle + 45°

CORRECTED DIP TESTS

Resident Geologist.

DEPTH	NUMBER	WIDTH	ASSAY						WIDTH X ASSAY			AVERAGES					
			AU	AG	CU	ZN	PB	NI	WIDTH	AU	AG	CU	ZN	PB	NI		
0.0-187.2	waste	187.2															
187.2-192.2	30505	5.0	.15		.06	.12											
192.2-197.2	30506	5.0	5.74		12.32	14.40			28.700	66.60	72.00						
197.2-202.2	30507	5.0	4.85		13.20	8.10			24.250	66.00	40.50						
202.2-207.2	30508	5.0	3.97		11.76	12.60			198.50	58.80	63.00						
207.2-208.8	30509	1.6	6.76		16.50	18.30			10.816	26.40	29.28						
208.8-211.6	waste	2.8															
211.6-212.9	L.C.	1.3															
212.9-246.5	waste	33.6															
246.5-247.2	L.C.	0.7															
247.2-252.0	waste	4.8															
252.0-254.6	L.C.	2.6															
254.6-297.0	waste	42.4															

End Hole

DIAMOND DRILL RECORD

Date Began Oct. 25, 1970. Date Completed Oct. 28, 1970

Property Tom Claims Project No. Depth 324'
Hole No. U-22 Co-ord N79661.84 Horizontal Length 324'
Sheet No. One E 50967.39 Direction S 64° 00' 21"E
Claim No. Elevation 4754.88 Angle Horizontal

CORRECTED DIP TESTS

Residual Geologic.

DEPTH	NUMBER	WIDTH	ASSAY							WIDTH X ASSAY		AVERAGES						
			AU	AG	CU	ZN	PS	NI				WIDTH	AU	AG	CU	ZN	PS	NI
0.0-1.4	waste	1.4																
1.4-2.2	L.C.	0.8																
2.2-4.7	waste	2.5																
4.7-5.7	L.C.	1.0																
5.7-9.0	waste	3.3																
9.0-9.7	L.C.	0.7																
9.7-171.7	waste	162.0																
171.7-172.7	L.C.	1.0																
172.7-174.1	waste	1.4																
174.1-175.0	L.C.	0.9																
175.0-180.0	waste	5.0																
180.0-180.6	L.C.	0.6																
180.6-272.4	waste	91.8																
272.4-275.0	L.C.	2.6																
275.0-297.4	waste	22.4																
297.4-298.0	L.C.	0.6																
298.0-301.5	waste	3.5																
301.5-302.8	L.C.	1.3																
302.8-324.0	waste	21.2																
End Hole																		

DIAMOND DRILL RECORD

Date Began Oct. 28, 1970. Date Completed Oct. 29, 1970.

Property Tom Claims Project No. Depth 35.0'
Hole No. U-23 Co-ord N 80218.63 Horizontal Length 35.0'
Sheet No. One E 50 989.54 Direction N 63 14' E
Claim No. Elevation 4755.77 Angle 0°

CORRECTED DIP TESTS

Residual Geologic.

DEPTH	NUMBER	WIDTH	ASSAY							WIDTH X ASSAY		AVERAGES						
			AU	AG	CU	ZN	PS	NI				WIDTH	AU	AG	CU	ZN	PS	NI
0.0-0.7	L.C.	0.7																
0.7-1.5	waste	0.8																
1.5-2.3	L.C.	0.8																
2.3-3.0	waste	0.7																
3.0-3.6	L.C.	0.6																
3.6-5.4	waste	1.8																
5.4-6.1	L.C.	0.7																
6.1-35.0	waste	28.9																

End Hole

DIAMOND DRILL RECORD

Date Began NOV. 16, 1970

Date Completed NOV. 19, 1970

Property Tom Claims

Project No.

Depth 216'

Hole No. U *31

Co-ord N80055.90

Horizontal Length 165.4'

Sheet No. One

E51183.95

Direction S65° 54' W

Claim No.

Elevation 4753.22

Angle - 40°

CORRECTED DIP TESTS

Acid Tests

216' 35°

Resident Geologist.

			ASSAY						WIDTH X ASSAY		AVERAGES						
DEPTH	NUMBER	WIDTH	AU	AG	CU	ZN	PB	NI			WIDTH	AU	AG	CU	ZN	PB	NI
0.0-2.4	Waste	2.4															
2.4-4.4	L.C	2.0															
4.4-5.0	Waste	0.6															
5.0-7.0	L.C	2.0															
7.0-25.2	Waste	18.2															
25.2-27.8	L.C	2.6															
27.8-30.8	Waste	3.0															
30.8-32.0	L.C	1.2															
32.0-47.6	Waste	15.6															
47.6-48.6	L.C	1.0															
48.6-50.0	Waste	1.4															
50.0-51.4	L.C	1.4															
51.4-57.9	Waste	6.5															
57.9-58.6	L.C	0.7															
58.6-69.4	Waste	10.8															
69.4-73.3	L.C	3.9															
73.3-73.7	Waste	0.4															
73.7-75.0	L.C	1.3															
75.0-78.7	Waste	3.7															
78.7-82.6	L.C	3.9															
82.6-89.4	Waste	6.8															
89.4-93.3	L.C	3.9															
93.3-150.3	Waste	57.0															
150.3-151.8	30573	1.5		11.18		23.3	28.0		1677	3495	4200						
151.8-153.7	30574	1.9		.44		.46	1.30		83	87	247						
153.7-158.7	30575	5.0		12.65		10.5	41.2		6325	5250	20600						
158.7-163.7	30576	5.0		12.65		20.5	33.0		6325	10500	16500						
163.7-168.0	30577	4.3		13.82		17.4	34.8		5947	7482	14900						
168.0-172.1	30578	4.1		1.76		9.8	4.0		721	4018	1640						
172.1-177.2	30579	5.1		8.64		15.0	21.2		4440	7650	10800						
177.2-178.6	30580	1.4		1.03		6.35	2.3		14	889	322						
178.6-181.4	30581	2.8		12.35		10.5	32.6		3458	2940	9128						
181.4-183.7	30582	2.3		2.94		6.1	7.12		676	1403	1637						

DIAMOND DRILL RECORD

Date Began NOV. 16, 1970

Date Completed NOV. 19, 1970

Property Tom Claims

Project No.

Depth 216'

Hole No. U - 31

Co-ord N80055.90

Horizontal Length 165.4'

Sheet No. Two

E51183.95

Direction S65° 54' W

Claim No.

Elevation 4753.22

Angle - 40°

CORRECTED DIP TESTS

Resident Geologist.

			ASSAY						WIDTH X ASSAY			AVERAGES						
DEPTH	NUMBER	WIDTH	AU	AG	CU	ZN	PB	NI				WIDTH	AU	AG	CU	ZN	PB	NI
183.7-186.4	L.C	2.7		7.94		8.1	19.66		21.43	2187	5308							
186.4-191.4	30583	5.0		12.94		10.1	3.22		6470	5050	16100							
191.4-193.3	30584	1.9		6.03		7.65	25.6		1145	1457	4864							
193.3-195.5	30585	2.2		4.04		1.08	14.2		888	237	3124							
195.5-200.5	30586	5.0		1.03		.16	3.3					45.2		40312		52645	10943	
200.5-204.0	30587	3.5		1.47		1.58	3.56							8.92		11.6	24.2	
204.0-205.0	Waste	1.0																
205.0-210.0	L.C	5.0																
210.0-213.7	Waste	3.7																
213.7-215.5	L.C	1.8																
215.5-216.0	Waste	0.5																
END OF HOLE																		

END OF HOLE

DIAMOND DRILL RECORD

Date Began Nov 19, 1970

Date Completed Nov 22, 1970

Property Tom Claims

Project No.

Depth 175'

Hole No. U-32

Co-ord N 80313.54

Horizontal Length 175'

Sheet No. One

E 50973.44

Direction S 66° 12' W

Claim No.

Elevation 4755.70

Angle 0°

Resident Geologist.

CORRECTED DIP TESTS

		ASSAY							WIDTH X ASSAY	AVERAGES						
DEPTH	NUMBER	WIDTH	AU	AG	CU	ZN	PS	NI		WIDTH	AU	AG	CU	ZN	PS	NI
0.0 - 2.1	Waste	2.1														
2.1 - 3.4	L.C.	1.3														
3.4 - 4.4	waste	1.0														
4.4 - 5.0	L.C.	0.6														
5.0 - 18.7	waste	13.7														
18.7 - 20.0	L.C.	1.3														
20.0 - 52.7	waste	32.7														
52.7 - 53.3	L.C.	0.6														
53.3 - 54.4	waste	1.1														
54.4 - 55.0	L.C.	0.6														
55.0 - 56.2	waste	1.2														
56.2 - 56.9	L.C.	0.7														
56.9 - 82.8	waste	25.9														
82.8 - 84.1	L.C.	1.3														
84.1 - 85.6	waste	1.5														
85.6 - 86.3	L.C.	0.7														
86.3 - 87.3	waste	1.0														
87.3 - 88.0	L.C.	0.7														
88.0 - 89.4	waste	1.4														
89.4 - 90.0	L.C.	0.6														
90.0 - 137.4	waste	47.4														
137.4 - 138.0	L.C.	0.6														
138.0 - 138.6	waste	0.6														
138.6 - 139.3	L.C.	0.7														
139.3 - 140.0	waste	0.7														
140.0 - 140.7	L.C.	0.7														
140.7 - 141.8	waste	1.1														
141.8 - 143.1	L.C.	1.3														
143.1 - 147.8	waste	4.7														
147.8 - 148.4	L.C.	0.6														
148.4 - 149.4	waste	1.0														
149.4 - 150.0	L.C.	0.6														
150.0 - 150.7	waste	0.7														

DIAMOND DRILL RECORD

Date Began Nov 19, 1970

Date Completed Nov 22, 70

Property Tom Claims

Project No.

Depth 175'

Hole No. U-32

Co-ord N 80313.54

Horizontal Length 175'

Sheet No. Two

E 50973.44

Direction S 66° 12' W

Claim No.

Elevation 4755.70

Angle 0°

Resident Geologist.

CORRECTED DIP TESTS

		ASSAY							WIDTH X ASSAY	AVERAGES						
DEPTH	NUMBER	WIDTH	AU	AG	CU	ZN	PS	NI		WIDTH	AU	AG	CU	ZN	PS	NI
150.7-151.4	L.C.	0.7														
151.4-152.4	waste	1.0														
152.4-153.8	L. C.	1.4														
153.8-154.4	waste	0.6														
154.4-155.0	L.C.	0.6														
155.0-155.8	waste	0.8														
155.8-156.5	L.C.	0.7														
156.5-157.6	waste	1.1														
157.6-158.9	L.C.	1.3														
158.9-160.0	waste	1.1														
160.0-160.7	L.C.	0.7														
160.7-165.6	waste	4.9														
165.6-166.3	L.C.	0.7														
166.3-170.3	waste	4.0														
170.3-171.7	L.C.	1.4														
171.7-175.0	waste	3.3														

End Hole

CORRECTED DIP TESTS

Date Begun November 29, 1970 Date Completed Nov. 30, 1970

Property Tom Claim Project No. 5762 Depth 47'
Hole No. U - 38 Co-ord N7744862 Horizontal Length 47'
Sheet No. ESI033.06 Direction S 63° 22' 54" W
Claim No. Elevation 4759.58 Angle Horizontal

Resident Biologist

DEPTH	NUMBER	WIDTH	ASSAY						WIDTH X ASSAY			AVERAGES					
			AU	AG	CU	ZN	PB	NI	WIDTH	AU	AG	CU	ZN	PB	NI		
0.0-5.0	37I05	5.0		5.40		2.82	18.4	2700	1410	9200							
5.0-6.0	37I06	1.0		10.60		6.72	30.7	1060	672	3075							
6.0-7.3	L.C	1.3		9.3		10.2	22.6	1209	1326	2938							
7.3-8.1	37I07	0.8		8.00		13.7	14.63	640	1096	1170							
8.1-12.0	L.C	3.9		7.36		13.5	13.8	2870	5265	5374							
12.0-13.0	37I08	1.0		6.72		13.8	13.13	672	1338	1313	13.0	9.51	11082	23.70			
13.0-16.2	37I09	3.2		1.18		4.44	1.15	377	1420	368		7.03	8.52	19.74			
16.2-17.5	L.C	1.3		.88		4.44	1.1	114	572	143							
17.5-18.7	37I10	1.2		.59		4.44	1.13	70	532	135							
18.7-22.2	37I11	3.5		.59		2.52	1.25	206	882	437							
22.2-23.5	L.C	1.3		.66		3.72	1.62	85	483	210							
23.5-24.4	37I12	0.9		.74		4.92	2.0	66	442	180							
24.4-25.7	L.C	1.3		.66		5.22	2.07	85	6786	269							
25.7-30.7	37I13	5.0		.59		5.52	2.15	295	2750	1075							
30.7-35.7	37I14	5.0		.59		9.71	3.50	295	4855	1750							
35.7-40.3	37I15	4.6		.74		10.85	4.38	340	4998	2106	40.3	10789	28688	29743			
40.3-41.7	37I16	1.4		.29		3.96	.98					2.67	7.11	7.38			
41.7-47.0	Waste	5.3		-		-	-										

HUDSON BAY EXPLORATION AND DEVELOPMENT CO. LTD.

DIAMOND DRILL RECORD

Date Began Dec 1, 1970. Date Completed Dec 3, 1970

Property	Tom Clains	Project No.	Depth	253'
Hole No.	U-39	Co-ord	N. 77434.29	Horizontal Length
Sheet No.	One	E 50864.84	Direction	N 64° E
Claim No.		Elevation	4755.17	Angle
				- 60°

CORRECTED DIP TESTS

49° at 250°

Resident Geologist.

[illegible]

DIAMOND DRILL RECORD

Date Begun Dec 12, 1970 Date Completed Dec 13, 1970

Property Tom Claims Project No. Depth 37.0
Hole No. U-45 Co-ord N 78223.50 Horizontal Length 37.0
Sheet No. One E 50780.63 Direction N 61° 55'E
Claim No. Elevation 4754.28 Angle Horizontal

CORRECTED DIP TESTS

Resident Geologist.

DEPTH	NUMBER	WIDTH	ASSAY						WIDTH X ASSAY		AVERAGES					
			AU	AG	CU	ZN	PS	NI			WIDTH	AU	AG	CU	ZN	PS
0.0-3.1	37175	3.1		.15		3.84	1.23		.46	11.90/3.81						
3.1-5.7	L.C.	2.6		.07		4.92	1.14		.18	12.79 2.96						
5.7-7.0	37176	1.3		tr		6.00	1.25		1.1	7.80 1.62						
7.0-8.3	L.C.	1.3		.22		6.24	2.50		.28	8.11 3.25						
8.3-13.3	37177	5.0		.44		6.48	3.75		2.20	3240 1875						
13.3-15.0	37178	1.7		.15		9.7	3.13		.25	1649 531						
15.0-25.0	L.C.	10.0		.22		6.96	3.06		2.20	6960 3060						
25.0-27.0	37179	2.0		.29		4.44	3.00		.58	888 600						
27.0-28.4	37180	1.4		1.2		6.72	6.63		1.84	940 928	28.4'	799		17737 8153		
28.4-34.2	waste	5.8										0.28		6.24 2.87		
34.2-35.7	L.C.	1.5														
35.7-37.0	waste	1.3														
End Hole																

DIAMOND DRILL RECORD

Date Begun Dec 13, 1970 Date Completed Dec 23, 1970

Property Tom Claims Project No. Depth 452'
Hole No. U-46 Co-ord N 77428.72 Horizontal Length 96'
Sheet No. One E 50857.76 Direction S 64° W
Claim No. Elevation 4755.17 Angle -83°

CORRECTED DIP TESTS

Resident Geologist.

DEPTH	NUMBER	WIDTH	ASSAY						WIDTH X ASSAY		AVERAGES					
			AU	AG	CU	ZN	PS	NI			WIDTH	AU	AG	CU	ZN	PS
0.0-5.3	waste	5.3														
5.3-7.3	L.C.	2.0														
7.3-109.0	waste	101.7														
109.0-109.7	L.C.	0.7														
109.7-111.5	waste	1.8														
111.5-112.2	L.C.	0.7														
112.2-115.0	waste	2.8														
115.0-116.3	L.C.	1.3														
116.3-127.6	waste	11.3														
127.6-130.0	L.C.	2.4														
130.0-134.4	waste	4.4														
134.4-135.0	L.C.	0.6														
135.0-263.0	waste	128.0														
263.0-267.0	L.C.	4.0														
267.0-268.7	waste	1.7														
268.7-272.7	L.C.	4.0														
272.7-273.7	37026	1.0		tr		696	.33		696	.33						
273.7-275.0	L.C.	1.3				8.8	.94		1076	1.22						
275.0-277.1	37027	1.1		tr		980	1.55		1056	1.70						
277.1-278.7	L.C.	1.6				7.32	1.8		3367	839						
278.7-279.4	37028	0.7		tr		3.84	2.10		850	357						
279.4-280.2	L.C.	0.8				2.16	.8		2376	1308						
280.2-282.4	7229	1.1		tr		.52	.30		35	33						
282.4-283.2	L.C.	1.3				3.24	.59		611	112						
283.2-287.0	37030	3.8		tr		6.12	.88		795	114						
287.0-290.0	L.C.	2.4				6.48	1.9		1552	456						
290.0-291.1	37031	1.1		tr		6.84	1.30		752	143						
291.1-293.0	L.C.	1.9				6.12	.8		2386	861						
293.0-294.2	37032	1.2		.14		3.40	2.13		77	972	561					
294.2-295.0	L.C.	0.8		1.1		6.16	1.74		31	1.77	1.00					
295.0-296.0	L.C.	1.0				6.36	.73		753	1802	2275					
296.0-297.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
297.0-298.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
298.0-299.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
299.0-300.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
300.0-301.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
301.0-302.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
302.0-303.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
303.0-304.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
304.0-305.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
305.0-306.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
306.0-307.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
307.0-308.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
308.0-309.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
309.0-310.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
310.0-311.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
311.0-312.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
312.0-313.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
313.0-314.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
314.0-315.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
315.0-316.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
316.0-317.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
317.0-318.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
318.0-319.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
319.0-320.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
320.0-321.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
321.0-322.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
322.0-323.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
323.0-324.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
324.0-325.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
325.0-326.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
326.0-327.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
327.0-328.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
328.0-329.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
329.0-330.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
330.0-331.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
331.0-332.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
332.0-333.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
333.0-334.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
334.0-335.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
335.0-336.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
336.0-337.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
337.0-338.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
338.0-339.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
339.0-340.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
340.0-341.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
341.0-342.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
342.0-343.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
343.0-344.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
344.0-345.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
345.0-346.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
346.0-347.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
347.0-348.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
348.0-349.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
349.0-350.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
350.0-351.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
351.0-352.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
352.0-353.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
353.0-354.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
354.0-355.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
355.0-356.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
356.0-357.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
357.0-358.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
358.0-359.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
359.0-360.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
360.0-361.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
361.0-362.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
362.0-363.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
363.0-364.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
364.0-365.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
365.0-366.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
366.0-367.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
367.0-368.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
368.0-369.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
369.0-370.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
370.0-371.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
371.0-372.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
372.0-373.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
373.0-374.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
374.0-375.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
375.0-376.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
376.0-377.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
377.0-378.0	L.C.	1.0				6.36	.73		753	1.7	1.00					
378.0-379.0	L.C.	1.0</														

DIAMOND DRILL RECORD

Date Began Dec 13, 1970

Date Completed Dec 23, 1970

Property Tom Claims Project No. Depth 452'
Hole No. U-46 Co-ord Horizontal Length 96'
Sheet No. TWO Direction S 64° W
Claim No. Elevation Angle - 83°

CORRECTED DIP TESTS

DEPTH	NUMBER	WIDTH	ASSAY						WIDTH X ASSAY			AVERAGES					
			AU	AG	CU	ZN	PS	NI	WIDTH	AU	AG	CU	ZN	PS	NI		
317.4-321.4	L.C.	4.0		3.75		15.55	8.5	2.4	1500	6220	3400						
321.4-322.5	37033	1.1		3.38		11.64	7.50		371	1280	825						
322.5-325.0	L.C.	2.5		3.38		8.94	9.62		845	2235	2405						
325.0-327.1	37034	2.1		3.38		6.24	11.75		709	1310	2467						
327.1-330.0	L.C.	2.9		4.56		11.0	17.69		1322	3190	51.30						
330.0-330.8	37022	0.8		5.74		15.84	23.63		459	1267	1890						
330.8-376.4	L.C.	(5.6)		4.14		16.0	14.06		19060	72960	64113						
376.4-377.0	37040	0.6		2.65		1628	4.50		159	976	270						
377.0-378.4	L.C.	1.4		5.21		19.48	9.56		729	2727	1338						
378.4-379.8	37041	1.4	12.9	7.79		22.7	14.63	11	1090	3178	2048						
379.8-381.9	37042	2.1		.88		.54	1.00		184	113	2.10						
381.9-386.9	37043	5.0		2.4	4.85	2.28	12.75		2425	1140	6375						
386.9-391.9	37044	5.0		5.29		8.28	13.88		2645	4140	6940						
391.9-396.8	37045	4.9		4.12		5.40	10.38		2018	2646	5086						
396.8-397.5	L.C.	0.7		2.87		2.82	7.06		200	197	492						
397.5-399.4	37046	1.9		1.62		.44	3.75		307	83	712						
399.4-400.0	L.C.	0.6		1.91		3.24	4.12		114	236	247						
400.0-402.9	37047	2.9		2.21		7.44	4.50		640	2157	1305						
402.9-404.3	L.C.	1.4		3.23		7.62	7.62		452	1066	1066						
404.3-409.3	37048	5.0		4.26		7.80	10.75		2130	3900	5375						
409.3-414.3	37049	5.0		3.68		14.6	6.63		1840	7300	3315						
414.3-419.1	37050	4.8		3.82		6.04	9.25		1833	2900	4400	146.4	44353	155560	132553		
419.1-424.1	37051	5.0		.88		2.46	2.29					3.02		10.62	9.05		
424.1-429.1	37052	5.0		.15		.62	.33					includes					
429.1-434.1	37053	5.0		.15		.76	.23					112.3	44263	130801	132553		
434.1-435.7	37054	1.6		.29		3.00	.30					3.94	11.64	11.8			
435.7-436.4	L.C.	0.7															
436.4-439.4	37055	3.0		.15		.04	.13										
439.4-440.0	L.C.	0.6															
440.0-442.8	waste	2.8															
442.8-443.5	L.C.	0.7															
443.5-448.8	waste	5.3															
448.8-450.0	L.C.	1.2															

DIAMOND DRILL RECORD

Date Began Dec 13, 1970

Date Completed Dec 23, 1970

Property Tom Claims Project No. Depth 452'
Hole No. U-46 Co-ord Horizontal Length 96'
Sheet No. three Direction S 56° W
Claim No. Elevation Angle - 83°

CORRECTED DIP TESTS

DEPTH	NUMBER	WIDTH	ASSAY						WIDTH X ASSAY			AVERAGES					
			AU	AG	CU	ZN	PS	NI	WIDTH	AU	AG	CU	ZN	PS	NI		
450.0-452.0	waste	2.0															
Sludge Samples																	
278.0-283.0	37008	5.0		.15		6.00	2.50										
283.0-288.0	37009	5.0		.15		5.28	2.03										
288.0-293.0	37010	5.0		.29		4.56	1.90										
293.0-298.0	37014	5.0		.29		5.04	1.40										
298.0-303.0	37015	5.0		.15		4.92	1.55										
303.0-308.0	37016	5.0		.44		6.60	2.38										
308.0-313.0	37017	5.0		.44		5.28	1.80										
313.0-318.0	37018	5.0		2.06		10.08	5.13										
318.0-323.0	37013	5.0		2.21		10.80	5.00										
323.0-328.0	37019	5.0		1.32		7.00	3.63										
328.0-333.0	37020	5.0		1.91		8.16	5.75										
333.0-338.0	37021	5.0		3.38		10.28	5.00										
338.0-343.0	37023	5.0		3.38		10.7	9.00										
343.0-348.0	37024	5.0		2.79		11.88	7.75										
348.0-353.0	37025	5.0		3.38		11.3	8.75										
353.0-358.0	37026	5.0		3.38		11.28	11.25										
358.0-363.0	37027	5.0		3.38		11.10	11.2										
363.0-370.0	37028	5.0		5.59		11.0	11.0										
370.0-375.0	37029	5.0		7.94		11.6	11.0										
375.0-380.0	37039	5.0		8.82		11.9	10.0										

End Hole

DIAMOND DRILL RECORD

Date Began Dec. 14, 1970 Date Completed Dec. 20, 1970

Property Tom Claims Project No. Depth 425'
Hole No. U-47 Co-ord Horizontal Length
Sheet No. Three Direction
Claim No. Elevation Angle - 60°

CORRECTED DIP TESTS

Residual Geologic

DEPTH	NUMBER	WIDTH	ASSAY							WIDTH X ASSAY							AVERAGES						
			AU	AG	CU	ZN	PS	NI		WIDTH	AU	AG	CU	ZN	PS	NI		AU	AG	CU	ZN	PS	NI
231.9-232.6	L.C.	0.7																					
232.6-270.0	waste	37.4																					
270.0-270.6	L.C.	0.6																					
270.6-274.4	waste	3.8																					
274.4-275.0	L.C.	0.6																					
275.0-281.0	waste	6.0																					
281.0-282.3	L.C.	1.3																					
282.3-283.5	waste	1.2																					
283.5-284.2	L.C.	0.7																					
284.2-286.6	waste	2.4																					
286.6-287.3	L.C.	0.7																					
287.3-288.5	waste	1.2																					
288.5-289.1	L.C.	0.6																					
289.1-290.9	waste	1.8																					
290.9-291.6	L.C.	0.7																					
291.6-296.2	waste	4.6																					
296.2-297.5	L.C.	1.3																					
297.5-302.3	waste	4.8																					
302.3-303.6	L.C.	1.3																					
303.6-305.0	waste	1.4																					
305.0-307.0	L.C.	2.0																					
307.0-326.0	waste	19.0																					
326.0-329.1	L.C.	3.1																					
329.1-330.0	waste	0.9																					
330.0-332.0	L.C.	2.0																					
332.0-332.8	waste	0.8																					
332.8-334.7	L.C.	1.9																					
334.7-335.8	waste	1.1																					
335.8-339.1	L.C.	3.3																					
339.1-340.6	waste	1.5																					
340.6-344.6	L.C.	4.0																					
344.6-346.0	37190	1.4		.29		6.00	1.55			40		840	217										
346.0-352.0	L.C.	6.0		.44		6.36	4.27			264		3816	2562										

DIAMOND DRILL RECORD

Date Began Dec. 14, 1970 Date Completed Dec. 20, 1970

Property Tom Claims Project No. Depth 425'
Hole No. U-47 Co-ord Horizontal Length
Sheet No. Four Direction
Claim No. Elevation Angle - 60°

CORRECTED DIP TESTS

Residual Geologic

DEPTH	NUMBER	WIDTH	ASSAY							WIDTH X ASSAY							AVERAGES						
			AU	AG	CU	ZN	PS	NI		WIDTH	AU	AG	CU	ZN	PS	NI		AU	AG	CU	ZN	PS	NI
352.0-354.4	37191	2.4		.59		6.72	7.00			141		1612	1680										
354.4-357.0	L.C.	2.6		.73		11.06	8.12			189		2875	2111										
357.0-358.8	37192	1.8		.88		15.7	9.25			158		2772	1665										
358.8-360.0	L.C.	1.2		.85		13.64	7.37			102		16.6	884										
360.0-360.5	37193	0.5		1.03		11.88	5.50			51		594	275										
360.5-362.4	L.C.	1.9		.85		12.43	6.06			161		2361	1151										
362.4-363.1	37194	0.7		.88		12.98	6.63			61		908	464										
363.1-366.3	L.C.	3.2		.58		9.49	4.3			185		3036	1376										
366.3-367.1	37195	0.8		.29		6.00	1.98			23		480	158										
367.1-372.0	L.C.	5.5		.44		8.70	3.3			193		4785	1815										
372.0-372.1	37196	0.5		.59		11.40	4.63			29		570	231										
372.1-377.7	L.C.	4.6		1.03		8.40	8.19			473		3864	3767										
377.7-378.7	37001	1.0		1.47		5.40	1.75			147		640	1175										
378.7-381.3	L.C.	2.6		1.54		5.28	9.84			400		1372	2558										
381.3-382.3	37002	1.0		1.62		5.16	8.13			162		616	813										
382.3-382.9	L.C.	0.6		2.50		7.14	10.8			150		428	648										
382.9-384.4	37003	1.5		3.38		9.12	13.50			507		1368	2025										
384.4-385.1	L.C.	0.6		4.26		8.76	14.44			273		525	866										
385.1-386.1	37004	1.1		5.74		8.40	15.38			631		924	1696										
386.1-387.1	L.C.	1.4		6.44		6.00	14.06			865		960	1968										
387.1-387.2	37005	5.0		6.62		5.40	12.75			510		2700	6375										
387.2-387.3	L.C.	1.9		3.60		10.27	3.26			684		1951	619										
387.3-387.4	37006	1.1		.59		7.80	1.13			61		658	114										
387.4-387.5	L.C.	3.0		1.54		7.44	4.13			554		2678	1436										
387.5-387.6	37007	2.0		2.50		7.08	7.1			502		1416	1426										
401.1-402.4	L.C.	1.3																					
402.4-403.0	waste	0.6																					
403.0-403.0	L.C.	2.0																					
403.0-403.0	waste	1.8																					
410.0-410.0	L.C.	0.7																					
410.0-410.0	waste	3.3																					
403.1-403.1	L.C.	1.3																					
403.1-403.1	waste	1.0																					

DIAMOND DRILL RECORD

Date Began Dec 27, 1970.

Date Completed Dec 27, 1970

Property Tom Claims

Project No.

Depth 60'

Hole No. U-54

Co-ord N 78664.10

Horizontal Length 60'

Sheet No. One

E 50527.73

Direction N 66° 26' W

Claim No.

Elevation 4753.40

Angle horizontal 0'

Resident Geologist.

CORRECTED DIP TESTS

DEPTH	NUMBER	WIDTH	ASSAY						WIDTH X ASSAY		AVERAGES					
			AU	AG	CU	ZN	PB	NI			WIDTH	AU	AG	CU	ZN	PB
0.0-5.0	27039	5.0		tr		4.08	1.93			2040	965					
5.0-10.0	27040	5.0		"		4.56	3.00			2280	1500					
10.0-15.0	27041	5.0		"		4.68	2.15			2340	1075					
15.0-20.0	27042	5.0		"		4.20	3.88			2100	1740					
20.0-25.0	27043	5.0		"		4.20	3.38			2100	1690					
25.0-28.7	27044	3.7		tr		4.20	1.55			1554	573					
28.7-30.0	L.C.	1.3		"		4.26	1.92			553	249					
30.0-35.0	27045	5.0		.15		4.32	2.30		75	2160	1160					
35.0-36.2	27046	1.2		.15		7.08	2.88		18	849	345					
36.2-39.4	27047	3.2		.44		4.26	1.50		140	1363	480					
39.4-40.0	L.C.	0.6		.66		5.37	2.81		39	322	168					
40.0-41.7	27048	1.7		.88		6.28	4.13		149	1101	702					
41.7-44.0	L.C.	1.3		1.25		3.81	6.5		162	495	845					
43.0-46.5	27049	3.3		1.62		3.36	8.88		534	1108	2930	46.3	1117	20365	14612	
46.5-49.4	27050	3.1		tr		.08	.58					0.24		4.39	3.15	
49.4-58.1	waste	8.7														
58.1-59.4	L.C.	1.3														
59.4-60.0	waste	0.6														
End Hole																

DIAMOND DRILL RECORD

Date Began Dec 28, 1970

Date Completed Dec 28, 1970

Property Tom Claims

Project No.

Depth 66'

Hole No. U-55

Co-ord N 78823.98

Horizontal Length 66'

Sheet No. One

E 50424.43

Direction N 64° 09' E

Claim No.

Elevation 4754.65

Angle horizontal 0'

Resident Geologist.

CORRECTED DIP TESTS

DEPTH	NUMBER	WIDTH	ASSAY						WIDTH X ASSAY		AVERAGES					
			AU	AG	CU	ZN	PB	NI	WIDTH	ASSAY	WIDTH	AU	AG	CU	ZN	PB
0.0-2.7	27051	2.7		tr		5.64	1.33			1522	359					
2.7-7.7	27052	5.0		"		5.76	1.63			2880	815					
7.7-12.7	27053	5.0		"		5.88	1.40			2940	700					
12.7-17.7	27054	5.0		"		5.40	1.35			2700	675					
17.7-22.7	27055	5.0		"		5.16	.83			2580	425					
22.7-24.0	L.C.	1.3		"		5.34	1.11		694	694	144					
24.0-29.0	27056	5.0		"		5.52	1.40			2760	700					
29.0-34.0	27057	5.0		"		5.16	2.15			2580	1075					
34.0-36.5	27058	2.5		"		8.16	.60			2040	150					
36.5-42.0	L.C.	5.5		.14		7.02	.86		77	3861	473					
42.0-43.0	27061	1.0		.29		5.88	1.13		29	588	113					
43.0-47.0	L.C.	4.0		.22		5.34	5.41		88	2136	2.04					
47.0-48.0	27062	1.0		.15		4.80	9.7		.15	480	970					
48.0-50.0	L.C.	2.0		.88		3.07	9.6		176	614	1920					
50.0-51.0	27063	1.0		1.62		1.34	9.5		102	134	950					
51.0-52.3	L.C.	1.3		1.84		.75	12.6		239	97	1638					
52.3-52.4	27064	1.1		2.06		.10	15.7		226	47	1227	53.4	1012	286	1488	
52.4-55.6	27065	2.4		1.03		.02	.01					0.18		5.36	2.00	
55.6-57.5	27066	1.7														
57.5-58.2	L.C.	0.7														
58.2-63.0	27067	4.1														
63.0-65.0	L.C.	1.7														
65.0-66.0	27068	1.0														

Site of Sample

27065 1.91 5.16 12.5

27066 1.52 1.00 4.2

DIAMOND DRILL RECORD

Date Begun _____ Date Completed _____
Property Tom Claims Project No. _____ Depth _____
Hole No. U-58 Co-ord _____ Horizontal Length _____
Sheet No. Five Direction _____
Claim No. _____ Elevation _____ Angle _____

CORRECTED DIP TESTS

CLASH NO.		ELEVATION		ASSAY		WIDTH X ASSAY		AVERAGES							
DEPTH	NUMBER	WIDTH	AU	AG	CU	ZN	PS	NI	WIDTH	AU	AG	CU	ZN	PS	NI
450.0-451.3	waste	1.3													
451.3-452.6	L.C.	1.3													
452.6-453.6	waste	1.0													
453.6-454.1	L.C.	0.5													
454.1-455.9	waste	1.8													
455.9-456.5	L.C.	0.6													
456.5-457.2	waste	0.7													
457.2-458.5	L.C.	1.3													
458.5-459.4	waste	0.9													
459.4-461.3	L.C.	1.9													
461.3-462.2	waste	0.9													
462.2-462.8	L.C.	0.6													
462.8-463.6	waste	0.8													
463.6-464.2	L.C.	0.6													
464.2-465.0	waste	0.8													
465.0-465.7	L.C.	0.7													
465.7-466.6	waste	0.9													
466.6-467.2	L.C.	0.6													
467.2-467.7	waste	0.5													
467.7-469.6	L.C.	1.9													
469.6-470.0	waste	0.4													
470.0-471.3	L.C.	1.3													
471.3-473.0	waste	1.7													
473.0-473.6	L.C.	0.6													
473.6-474.4	waste	0.8													
474.4-475.0	L.C.	0.6													
475.0-475.3	waste	0.3													
475.3-487.6	L.C.	12.3													
487.6-488.6	waste	1.0													
488.6-489.2	L.C.	0.6													
489.2-492.5	waste	3.3													
492.5-493.1	L.C.	0.6													
493.1-494.6	waste	1.5													

HUDSON BAY EXPLORATION AND DEVELOPMENT CO. LTD.
DIAMOND DRILL RECORD

Date Begun _____ Date Completed _____
Property Tom Claims Project No. _____ Depth _____
Hole No. U-58 Co-ord _____ Horizontal Length _____
Sheet No. Six Direction _____
Claim No. _____ Elevation _____ Angle _____

CORRECTED DIP TESTS

		ASSAY							WIDTH X ASSAY							Resident Geologist																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
DEPTH	NUMBER	WIDTH	AU	AG	CU	ZN	PS	NI								AVERAGES																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										

End hole

Form No. 504-R1-5M-5-70-CP

HUDSON BAY EXPLORATION AND DEVELOPMENT CO. LTD.

DIAMOND DRILL RECORD

Date Began Jan 13, 1971

Date Completed Jan 14, 1971

Property Tom Claims

Project No.

Depth 50'

Hole No. U-61

Co-ord N 79898.04

Horizontal Length 50'

Sheet No. 008

E 51151.13

Direction S 59° 21' 39" W

Claim No.

Elevation 4754.73

Angle 0°

CORRECTED DIP TESTS

Resident Geologist.

DEPTH	NUMBER	WIDTH	ASSAY							WIDTH X ASSAY			AVERAGES						
			AU	AG	CU	ZN	PS	NI		WIDTH	AU	AG	CU	ZN	PS	NI			
0.0-0.6	Waste	0.6																	
0.6-1.3	27082	0.7	1.18			4.68	2.35												
1.3-8.4	Waste	7.1																	
8.4-10.0	L.C.	1.6																	
10.0-15.7	Waste	5.7																	
15.7-19.5	27083	3.8	1.62			6.48	4.50			6.156	24.624	17.10							
19.5-24.6	27084	5.1	5.44			18.04	16.0			27.744	92.004	81.6							
24.6-29.6	27085	5.0	.74			3.48	1.83			3.700	17.400	9.15							
29.6-33.4	27086	3.8	1.47			4.80	4.50			5.586	18.24	17.10							
33.4-34.4	27088	1.0	11.18			15.84	38.4			11.180	15.84	3.84							
34.4-36.1	27087	1.7	1.32			6.72	4.13			2.244	11.42	7.02							
36.1-38.3	27089	2.2	.74			1.34	1.23										56.610	179.53	135.81
38.3-40.3	Waste	2.0															2.77	8.8	6.6
40.3-45.3	27090	5.0	.59			2.94	.55												
45.3-46.6	27091	1.3	.74			4.68	.98												
46.6-50.0	Waste	3.4																	
End Hole																			

Form No. 504-R1-5M-5-70-CP

HUDSON BAY EXPLORATION AND DEVELOPMENT CO. LTD.

DIAMOND DRILL RECORD

Date Began Aug. 5th, 1971

Date Completed Aug. 15/71

Property Tom Claims, Y.T.

Project No.

Depth 806'

Hole No. U-62

Co-ord 77013.4N

Horizontal Length

Sheet No.

50786.3E

Direction 87° 30' E

Claim No.

Elevation 4755.9

Angle -85°

CORRECTED DIP TESTS

Resident Geologist.

			ASSAY							WIDTH X ASSAY			AVERAGES						
DEPTH	NUMBER	WIDTH	AU	AG	CU	ZN	PS	NI				WIDTH	AU	AG	CU	ZN	PS	NI	
0.0	6.0	Casing	6.0																
6.0	465.0	Waste	459.0																
465.0	707.2	Waste	242.2																
707.2	707.5	6020	0.3	.15		Tr	.04												
707.5	708.3	21	0.8	.15		.10	.02												
708.3	711.5	22	3.3	.15		.02	.06												
711.6	713.5	23	2.0	.15		.04	.08												
713.6	714.8	L.C.	1.2																
714.8	715.8	24	1.0	.15		.10	.08												
715.8	721.0	L.C.	5.2																
721.0	722.0	25	1.0	.15		.04	.04												
722.0	731.0	Waste	9.0																
731.0	732.0	6020	1.0	.24	.19	.83	.04												
732.0	734.0	26	1.8	.34	.31	2.10	.09												
734.0	735.0	27	1.3	.34	.03	1.73	.88			1.475	33.35	22.0							
735.0	736.0	28	2.5	.34	.03	1.73	.41			1.850	40.0	1.0							
736.0	740.0	30	4.0	.34	.48	2.10	.66			3.520	11.52	2.6							
740.0	745.0	31	5.0	1.22	.00	2.10	3.80			3.240	4.20	7.6							
745.0	746.0	L.C.	1.0										11.0'	.000		4.5	1.2		
746.0	747.0	32	1.0	Tr	.03	.10	.09												
747.0	748.0	L.C.	1.0																
748.0	750.0	33	5.0	.34	.03	2.10	1.85												
750.0	756.0	34	1.0	3.03	.09	1.50	19.0						1.0	8.68		1.50	19.0		
756.0	758.0	L.C.	3.0																
758.0	763.0	35	1.0	Tr		Tr	Tr												
763.0	764.0	L.C.	1.0																
764.0	765.0	36	1.0	Tr		Tr	Tr												
765.0	766.0	37	1.0	Tr		Tr	Tr												
766.0	767.0	38	1.0	Tr		Tr	Tr												
767.0	768.0	39	1.0	Tr		Tr	Tr												
768.0	769.0	40	1.0	Tr		Tr	Tr												
769.0	770.0	41	1.0	Tr		Tr	Tr												
770.0	771.0	42	1.0	Tr		Tr	Tr												
771.0	772.0	43	1.0	Tr		Tr	Tr												
772.0	773.0	44	1.0	Tr		Tr	Tr												
773.0	774.0	45	1.0	Tr		Tr	Tr												
774.0	775.0	46	1.0	Tr		Tr	Tr												
775.0	776.0	47	1.0	Tr		Tr	Tr												
776.0	777.0	48	1.0	Tr		Tr	Tr												
777.0	778.0	49	1.0	Tr		Tr	Tr												
778.0	779.0	50	1.0	Tr		Tr	Tr												
779.0	780.0	51	1.0	Tr		Tr	Tr												
780.0	781.0	52	1.0	Tr		Tr	Tr												
781.0	782.0	53	1.0	Tr		Tr	Tr												
782.0	783.0	54	1.0	Tr		Tr	Tr												
783.0	784.0	55	1.0	Tr		Tr	Tr												
784.0	785.0	56	1.0	Tr		Tr	Tr												
785.0	786.0	57	1.0	Tr		Tr	Tr												
786.0	787.0	58	1.0	Tr		Tr	Tr												
787.0	788.0	59	1.0	Tr		Tr	Tr												
788.0	789.0	60	1.0	Tr		Tr	Tr												
789.0	790.0	61	1.0	Tr		Tr	Tr												
790.0	791.0	62	1.0	Tr		Tr	Tr												
791.0	792.0	63	1.0	Tr		Tr	Tr												
792.0	793.0	64	1.0	Tr		Tr	Tr												
793.0	794.0	65	1.0	Tr		Tr	Tr												
794.0	795.0	66	1.0	Tr		Tr	Tr												
795.0	796.0	67	1.0	Tr		Tr	Tr												
796.0	797.0	68	1.0	Tr		Tr	Tr												
797.0	798.0	69	1.0	Tr		Tr	Tr												
798.0	799.0	70	1.0	Tr		Tr	Tr												
799.0	800.0	71	1.0	Tr		Tr	Tr												
800.0	801.0	72	1.0	Tr		Tr	Tr												
801.0	802.0	73	1.0	Tr		Tr	Tr												
802.0	803.0	74	1.0	Tr		Tr	Tr												
803.0	804.0	75	1.0	Tr		Tr	Tr												
804.0	805.0	76	1.0	Tr		Tr	Tr												
805.0	806.0	77	1.0	Tr		Tr	Tr												
806.0	807.0	78	1.0	Tr		Tr	Tr												
807.0	808.0	79	1.0	Tr		Tr	Tr												
808.0	809.0	80	1.0	Tr		Tr	Tr												
809.0	810.0	81	1.0	Tr		Tr	Tr												
810.0	811.0	82	1.0	Tr		Tr	Tr												
811.0	812.0	83	1.0	Tr		Tr	Tr												

DIAMOND DRILL RECORD

Date Began Aug. 27th, 1971 Date Completed Sept. 25, 71Property Tom Claims Project No. Depth 652'Hole No. U-63 Co-ord N76898.7 Horizontal Length Sheet No. E50567.5 Direction N64°00'EClaim No. Elevation 4758.4 Angle -85°

CORRECTED DIP TESTS

Acid Tests:

100'	63°30'
200'	76°00'
300'	70°30'
400'	63°30'
500'	52°00'
600'	53°00'

Resident Geologist

DEPTH		NUMBER	ASSAY						WIDTH X ASSAY		AVERAGES							
			WIDTH	AU	AG	CU	ZN	PS	NI			WIDTH	AU	AG	CU	ZN	PS	NI
0.0	642.0	Waste	642.0															
642.0	652.0	Lost	10.0															
Hole abandoned at 652' when rods sanded in.																		

DIAMOND DRILL RECORD

Date Began Sept. 24, 1971 Date Completed Oct. 6, 1971Property Tom Claims Project No. Depth 996'Hole No. U63-W-1 Co-ord N76898.7 Horizontal Length Sheet No. 1 E50567.5 Direction See U63Claim No. Elevation 4757.9 Angle

CORRECTED DIP TESTS

Acid Tests:

519'	55°30'
600'	52°00'
700'	48°00'
800'	49°00'

TroPari Survey:

900'	N16°E	-45°
700'	N11°E	-45°
440'	N40°00'E	-59°
30'	N34°E	-84°

30' tropari survey checked 3 times
considerable waterflow vibrated rods

Resident Geologist

		ASSAY						WIDTH X ASSAY		AVERAGES					
DEPTH	NUMBER	WIDTH	AU	AG	CU	ZN	PS	NI	WIDTH	AU	AG	CU	ZN	PS	NI
0.0	470.0	470.0	See U63		Top of wedge 470'.										
470.0	785.0	Waste	315.0												
785.0	788.0	70502	3.0	Tr		12.4	1.90		--	37.2		5.7			
788.0	790.0	L.C.	2.0	.14		11.2	2.1		.28	22.4		4.2			
790.0	794.0	03	4.0	.29		10.0	2.4		1.16	40.0		9.6			
794.0	796.0	04	2.0	.15		10.8	3.3		.30	21.6		6.6			
796.0	797.0	05	1.0	Tr		8.8	2.08		--	8.8		2.08			
797.0	802.0	L.C.	5.0	Tr		9.3	1.9		--	46.5		9.5			
802.0	805.0	06	1.0	Tr		9.8	1.73		--	9.8		1.7			
803.0	805.0	L.C.	2.0	Tr		11.4	3.55		--	22.8		7.1			
805.0	807.0	07	2.0	Tr		13.0	5.38		--	26.0		11.7			
807.0	813.0	L.C.	6.0	Tr		11.0	2.7		--	69.5		22.2			
813.0	814.0	08	1.0	Tr		10.3	2.15		--	10.3		2.1			
814.0	817.0	09	3.0	Tr		5.16	1.0		--	15.4		6.0			
817.0	821.0	10	4.0	Tr		7.8	2.63		--	23.4		7.9			
821.0	822.0	L.C.	1.0	Tr		5.7	2.5		--	13.4		5.0			
822.0	827.0	11	5.0	Tr		5.58	2.5		--	27.6		12.5			
827.0	834.0	12	7.0	Tr		5.8	1.98		--	29.4		9.8			
834.0	835.0	13	1.0	Tr		8.04	2.63		--	48.2		15.7			
835.0	837.0	14	2.0	Tr		8.76	1.35		--	8.7		1.4			
837.0	841.0	15	4.0	Tr		6.17	1.5		--	24.4		6.0			
841.0	845.0	16	4.0	Tr		5.16	1.2		--	10.3		2.4			
845.0	845.0	L.C.	1.0	Tr		4.7	1.2		--	4.7		1.2			
845.0	847.0	17	2.0	.11		4.32	1.3		--	4.3		1.3			
847.0	850.0	18	3.0	Tr		2.69	.3		--	7.5		.3			
850.0	851.0	19	1.0	Tr		15.8	2.75		--	11.25		28.7			
851.0	855.0	20	4.0	Tr		20.4	17.9		--	26.05		102.0			
855.0	857.0	21	2.0	Tr		15.0	11.4		--	19.10		25.0			
857.0	857.0	22	1.0	Tr		14.0	10.8		--	22.80		20.0			
857.0	857.0	23	1.0	Tr		8.4	10.6		--	22.06		43.4			
857.0	857.0	24	1.0	Tr		8.76	3.38		--	5.15		43.8			
857.0	857.0	25	1.0	Tr		19.6	2.18		--	11.00		98.0			
857.0	857.0	26	1.0	Tr		19.4	3.12		--	11.00		27.0			

TOM PROPERTI
UNDERGROUND
DRILL LOGS (HBMS)

091709

~~Surface~~ DDH
Underground

091709

Log Diamond Drill Hole, Tom Claims, Yukon

Hole Number: U-1

N79780.29 Dip: -2° Strike: N44°46'E
E51068.56 Elev: 4754.89 Depth: 145'

Started: Aug. 16th, 1970, Finished: Aug. 18th, 1970.

Drilled By: Cameron McCutcheon Drilling Ltd.

Logged By: I. Young.

0.0 31.4 Grey, finegrained siliceous argillite, few thin beds medium grained siltstone .5' to 2', numerous thin contorted beds siltstone, occasional white quartz stringers, slight pyrite, odd speck chalcopyrite at 0.5'. Lost core: 1.3-2.3', 3.2-4.7', 5.5-6.8', 8.9-10.0'. Core angles: at 17.5' 70°, at 27.5' 74°, at 28.6' 35°

31.4 32.1 Black graphitic argillite, fine grained, slight pyrite.

32.1 36.2 Grey finegrained siliceous argillite, numerous thin beds siltstone, some contorted, slight pyrite. core angle at 34.5' 45°.

36.2 38.8 Black fine grained graphitic argillite, few thin contorted beds siltstone, slight pyrite.

38.8 47.8 Grey, fine grained argillite, numerous thin beds contorted siltstone, slight pyrite, several carbonate stringers from 43.1' to 47.8', numerous fractures.

47.8 100.8 Grey baritic limestone, some contorted beds, numerous thin beds chert and argillite, slight pyrite, slight to fair galena, disseminated sphalerite along bedding. Sphalerite most

- 2 -

abundant in the following zones: 55.5-56.2', 82.0-83.7', 94.0-96.6', 97.8-99.4', beds of argillite abundant from 91.5-93.6', Lost core 54.0-55.8', 56.0-56.6', 57.6-58.5', 63.6-64.4', 67.8-69.0'. Core angles: 51.0' 27°, 75.0' 23°, 83.0' 27°, 88.8' 24°, 92.4' 31°.

100.8 102.9 Massive galena and sphalerite, slight pyrite, odd stringers white quartz.

102.9 114.4 Solid sulphide, pyrite, few thin contorted beds chert and argillite, fair galena, slight sphalerite, abundant white quartz, slight chalcopyrite at 114', lost core 112.7-113.9'.

114.4 116.3 Fine grained black chert, numerous stringers white quartz, fair pyrite, slight galena.

116.3 121.9 Fine grained grey siliceous argillite, well bedded, some contortion, few thin beds chert, fair pyrite and galena, pale brown sphalerite in bedding, lost core 112.7-113.9', core angle 22° at 118.6'

121.9 125.3 Fine grained grey siliceous argillite, few quartz stringers, carbonate in fractures.

125.3 145.0 Black fine grained graphitic argillite, siliceous, numerous thin quartz stringers, carbonate in fractures, few specks chalcopyrite at 142.2', lost core 125.3-125.9', 135.0-135.7', core angles 42° at 136.5', 40° at 141.5'.

END OF HOLE 145.0'

Los Diamond Drill Hole U-64, Contd., - 3 -

707.0 711.0 Well bedded medium grained black graphitic argillite,
711.0 726.0 Thinly interbedded grey chert and baritic limestone,
well mineralized sphalerite and galena, slight pyrite.
core angles: at 711' 84°, at 715' 88°, at 726' 88°,
lost core 715-717'.

726.0 817.0 Well bedded medium grained grey to white baritic
limestone with interbedded chert, mineralized to
well mineralized sphalerite and galena, slight pyrite,
step fault at 765'. Core angles: at 733' 88°, 739'
52°, at 741' 38°, at 746' 46°, at 749' 48°, at 751'
61°, at 754' 35°, at 766' 54°, at 765' 45°, at 766'
42°, at 768' 54°, at 781' 64° at 784' 62°, at
795' 68°, at 799' 88°, at 803' 83°. Lost core
775-776', 781-784', 807-810', 811-816'.

817.0 828.0 Lost core, Fault zone, no pressure on head going
through this zone,

828.0 829.0 Grey argillite, well mineralized with galena and
sphalerite, slight pyrite.

829.0 833.0 Fairly massive, fine grained grey argillite.
core angle at 832' 70°.
End of Hole 833'

Log Diamond Drill Hole.

Tom Claims, Yukon

Hole Number: U-2

Flat

N70°09'E

N79750.75

Elevation: 4754.49

Depth: 225'

E51051.12

Date Started: Aug. 19th, 1970. Finished: August 26th, 1970.

Drilled By: Cameron McCutcheon Drilling Ltd.

Logged By: I. Young.

0.0 77.7 Grey fine grained siliceous argillite, well bedded, numerous siltstone beds, some contortion of thinner beds, odd stringer white quartz, slight pyrite, carbonate in some fractures, graphite at 16.0', 49.0' and from 71.8-72.0'. Lost core 322-3.9', 4.4-5.0', 6.8-7.6', 10.7-12.7', 14.4-15.0' 18.4-19.1', 21.0-21.7', 24.0-24.6', 25.1-25.8', 36.4-37.1', 40.0-41.4', 46.8-48.1'. Core angles 42° at 1.0', 33° at 14.0', 23° at 23.0', 29° at 31' 34° at 35.0', 28° at 45.0', 45° at 50.5', 41° at 58.5' 37° at 63.0', 41° at 69.5', 35° at 75.0'.

77.7 85.7 Black fine grained graphitic argillite, few quartz stringers, numerous fractures from 77.7-78.7', fair pyrite, odd specks galena and sphalerite, lost core 83.3-85.7'.

85.7 86.4 Black fine grained argillite, well bedded, considerable contortion, few carbonate and abundant quartz stringers, slight pyrite, slight galena, pale brown disseminated sphalerite in bedding.

86.4 87.9 Black fine grained graphitic argillite, few quartz stringers, slight pyrite, carbonate in fractures, few specks galena and sphalerite at 87.4'

- 2 -

88.0 90.5 Black fine grained, well bedded argillite, considerable contortion, some carbonate, occasional quartz stringers, fair pyrite, mineralized galena and sphalerite.

90.5 91.8 Black graphitic argillite, numerous thin beds quartz, fair pyrite, carbonate in fractures.

91.8 98.8 Black fine grained well bedded siliceous argillite, some beds extremely contorted, some carbonate, occasional quartz stringers, slight to fair pyrite, fair galena, brown disseminated sphalerite in bedding, massive galena and sphalerite from 94.9-95.0' and 96.3-96.9', lost core 95.0-96.3'

98.8 140.0 Black graphitic fine grained argillite, siliceous, well bedded, occasional quartz stringers, ~~xxx~~ and carbonate ~~in~~ quartz in some fractures, fair pyrite, some oxidation, pyrite crystals leached, odd speck galena and sphalerite at 113.0' and 130.5'. lost core 109.4-110.7', 117.1-118.4', 130.6-131.3', 132.1-132.8', 133.7-134.3', 135.0-135.7'. Core angles 27° at 126.5', 34° at 131.8'

140.0 154.8 Grey fine grained siliceous argillite, well bedded, numerous thin contorted siltstone beds, few quartz stringers, slight to fair pyrite, few specks galena and sphalerite at 147.0', core angles 37° at 142.5', 31° at 147.5'.

154.8 155.5 Black fine grained graphitic argillite, numerous quartz stringers, carbonates in fractures,

- 3 -

mineralized sphalerite and galena.

- 155.5 163.8 Black fine grained graphitic argillite, some carbonate, occasional quartz stringers, slight galena, pale brown disseminated sphalerite in bedding, very slight mineralization from 158.2-160.0, abundant sphalerite from 155.8-157.8', core angle 37° at 162.0'.
- 163.8 193.0 Grey fine grained siliceous argillite, well bedded, slight contortion, few thin beds siltstone, occasional quartz stringers, some carbonate in fractures, slight pyrite, mineralized sphalerite and galena in the following: 176.8-177.7', 183.3-184.7', lost core 166.7-167.3', 168.0-168.7', 171.0-171.4', 172.7-173.2, 181.2-181.9', 183.0-183.3', 184.7-185.0', 186.0-186.4' core angles: 16° at 176.4', 46° at 183.0'.
- 193.0 194.1 Black graphitic argillite, fine grained, slight galena, odd thin beds pale brown disseminated sphalerite
- 194.1 198.6 Grey fine grained siliceous argillite, several quartz stringers with euhedral quartz crystals, chalcopyrite in quartz at 197.5', fair pyrite and galena, fair fine grained sphalerite, massive galena and sphalerite in pyrite from 194.1-194.9', lost core ~~197.0-197.5'~~ core angle at 198.5' 31°.
- 198.6- 200.0 Black fine grained graphitic argillite, very slight pyrite, occ fracture filled with carbonate.

- 4 -

- 200.0 225.0 Grey, fine grained well bedded siliceous argillite, abundant siltstone in beds 1/10" to 2" wide, considerable contortion in siltstone, Siltstone extremely abundant from 220.7-225.0', occasional quartz stringers, slight pyrite, some carbonate in fractures, lost core 211.1-211.8, 213.0-213.7', core angles 25° at 205', 29° at 209', 28° at 220', 21° at 224'.
- END OF HOLE 225.0'

Log Diamond Drill Hole Tom Claims, Yukon.
Hole Number: U-3 Flat Direction: N66°27'E
N77949.53 Elevation: 4755.97 Depth: 35.0'
E50907.10

Started: August 27th, 1970. Finished: August 27th, 1970.

Drilled By: Cameron McCutcheon Drilling Ltd.

Logged By: I. Young.

0.0 11.5 Grey baritic limestone, fine grained well bedded,
 some contortion, occasional thin beds chert and
 argillite, slight pyrite and galena, brown
 disseminated sphalerite in bedding. Lost core:
 0.5-1.1', 1.6-2.2', 2.7-3.4', 3.9-4.5', 5.0-5.7',
 6.1-6.8', 7.3-8.0', 8.5-9.0', 9.5-10.0', 10.8-11.5',
 core angles: 38° at 1.5', 42° at 9.0'.

11.5 18.8 Grey, fine grained argillite, odd thin bed baritic
 limestone, some contortion, slight to fair pyrite,
 massive pyrite from 12.7-12.9', slight galena, pale
 brown disseminated sphalerite in bedding, carbonate
 in fractures. Lost core 14.3-15.0'.

18.8 22.5 Grey fine grained argillite, carbonates abundant,
 numerous fractures, occasional quartz stringers,
 fair pyrite, lost core 18.8-20.0', 21.8-22.5'.

22.5 35.0 Black graphitic well bedded argillite, siliceous,
 slight pyrite, few quartz stringers, carbonates in
 fractures, lost core 23.8-24.5', 26.4-27.1', 28.6-29.3'
 Core angles: 21° at 25', 23° at 33'.
 END OF HOLE 35.0'

Log Diamond Drill Hole

Tom Claims Yukon.

Hole Number U-4 Flat 366° 27'W
N77941.79 Elev. 4755.97 Depth 119'
E50892.52

Date Started: Aug. 27th, 1970. Finished: Aug. 28th, 1970

Drilled By: Cameron McCutcheon Drilling Ltd.

Logged By: I. Young

0.0 83.4 Grey baritic limestone, well bedded, considerable
 contortion, narrow beds black chert, odd stringers
 white quartz, slight pyrite and galena,
 disseminated pale brown sphalerite in bedding.
 Lost core: 0.4-1.1', 1.5'-2.1', 6.3-7.7', 8.7-9.3',
 10.2-10.8', 47.9-48.5', 49.3-50.0', 56.1-56.4',
 59.0-59.5', 76.1-76.5'.
 core angles: at 0.0' 20°, at 8.5' 20°, at 15' 31°
 at 20' 20°, at 22' 38°, at 25.5' 35°, at 28.8' 36°
 30.0' 26°, at 33.5' 22°, at 39.5' 22°, at 44.5' 30°
 at 51' 34°, at 55' 26°, at 60' 24°, at 65' 30°
 at 70' 29°, at 75' 26°.

83.4 85.9 Black graphitic argillite, fine grained, siliceous,
 well bedded, beds contorted, few thin beds contorted
 baritic limestone, slight galena, slight to fair
 pyrite, slight sphalerite, occasional stringers
 white quartz, core angle at 84' 63°.

- 2 -

85.9 110.0 Black graphitic argillite, well bedded, siliceous,
very slight pyrite, occasional stringers white
quartz, carbonate in fractures, core angles:
at 88' 30°, at 93.5' 46°, at 103' 48°.
END OF HOLE 111.0'

Log Diamond Drill Hole:

Hole Number: U-5 Flat N56°E
N79909.91 Elevation: 4754.63 Depth: 175'
E51067.16

Started: September 10th, 1970, Finished: Sept. 13, 1970

Drilled By: Cameron McCutcheon Drilling Ltd.,

Logged By: I. Young.

0.0 56.2 Black siliceous graphitic argillite, well bedded
some contortion, numerous thin quartz stringers,
carbonate in fractures, slight pyrite, some pyrite
crystals leached, fair galena and sphalerite from
~~36.5-39.2'~~ 42.2', visible galena at 42.2' and 49.1'.
Lost core: 15.0-15.7', 16.9-17.6', 19.3-20.0',
31.9-32.4', 33.0-33.8'.
Core angles: 36° at 1.5', 34° at 16.4', 29° at 21.0',
28° at 25.3', 33° at 31.4', 27° at 48.2'.
56.2 101.7 Grey siliceous argillite, well bedded, considerable
contortion, numerous thin contorted siltstone beds,
with fair pyrite, few quartz stringers, carbonate
in fractures, lost core 77.4-78.1'.
Core angles: 35° at 58.5', 28° at 63.0', 27° at 66.5',
27° at 70.5', 24° at 76', 30° at 82.0', 36° at 89.5',
19° at 91.2', 49° at 99.5'.
101.7 103.4 Conglomerate, angular chert and argillite fragments,
fair quartz slight pyrite.
103.4 125.7 Grey siliceous argillite, well bedded, numerous
siltstone beds, considerable contortion, few quartz
stringers, carbonates in fractures, slight pyrite.
Lost core: 123.0-124.0'.

Log diamond Drill Hole U-5 Contd.

Core angles: α 18° at 104.5', 28° at 109.5', 48° at 113.0', 28° at 117.4', 17° at 122.8'.

125.7 128.0 Conglomerate, medium grained angular chert, argillite and quartz fragments, slight pyrite. Lost core: 126.3-127

128.0 157.6 Grey argillite, well bedded, several siltstone beds, considerable contortion, few quartz stringers, carbonate in fractures, slight pyrite. Lost core: 130.0-132.3', 134.1-134.5', 135.0-135.7', 139.0-139.5', 140.0-141.4', 142.1-142.5', 143.7-145.7', 147.8-148.5'. Core angles: 27° at 128.5', 25° at 136.6', 18° at 147.7', 14° at 149.4', 36° at 154.5', 24° at 156.3'.

157.6 160.6 Brown siltstone, medium grained, few quartz stringers, slight pyrite, some leached. Lost core: 159.3-160.6'.

160.6 162.1 Conglomerate, angular fragments, 1/20-1/4", slight pyrite.

162.1-174.3 Grey argillite, numerous siltstone beds, considerable contortion, few stringers white quartz, carbonate in fractures, slight pyrite. Core angles: 13° at 162.2', 15° at 166.5', 30° at 171.6'.

174.3 175.0 Conglomerate, angular fragments of chert, quartz and argillite, slight pyrite.

END OF HOLE 175.0'.

Log Diamond Drill Hole.

Hole Number: U-6 Flat S60°W
N79903.37 Elevation: 4754.63 Depth: 50.0'
E51055.92

Started: September 14th, 1970. Finished: September 14th, 1970.

Drilled By: Cameron McCutcheon Drilling

Logged By: I Young

0.0 2.2 Grey fine grained argillite, well bedded, thin limestone beds, considerable contortion, slight galena, pale brown disseminated sphalerite in bedding, slight pyrite, numerous quartz stringers, carbonate in fractures, core angle at 1.1' 20°.

2.2 7.5 Grey fine grained argillite, near massive galena, and pale brown sphalerite, fair pyrite, few quartz stringers, carbonate in fractures.

7.5 8.6 Black graphitic argillite, siliceous, numerous fractures, few quartz stringers.

8.6 50.0 Grey fine grained argillite, well bedded, with interbedded siltstone, yellow siltstone abundant from 28.7-35.8', considerable contortion in some beds, few quartz stringers, pyrite abundant from 23.1-24.6', 27.2-27.9', some leaching of pyrite crystals, carbonate in fractures, lost core: 10.4-11.0', 34.8-35.0', 37.9-38.2', core angles: 24° at 11.7', 54° at 13', 18° at 16.7', 16° at 22', 11° at 29', 28° at 40', 21° at 42', 75° at 44.5'.

END OF HOLE 50.0'

Log Diamond Drill Hole.

Hole Number: U-7

Flat

N60°E

N79748.99
E51181.06

Elevation: 4755.37

Depth: 153'

Started: Sept. 17th, 1970. Finished: Sept. 20th, 1970.

Drilled by: Cameron McCutcheon Drilling Ltd.,

Logged By: I. Young.

0.0 13.5 Black graphitic argillite, fine grained, siliceous, well bedded, few contorted beds siltstone, few quartz stringers, slight pyrite, lost core: 1.5-2.2', 3.1-3.8', 6.1-6.8', 8.0-8.7', 10.2-10.9', 13.2-13.9'. core angles: 22° at 4.0', 49° at 9.0', 59° at 11.0'.
14.5 31.6 Grey fine grained argillite, well bedded, numerous siltstone beds, siltstone very abundant from 21.3-22.7', 26.1 - 27.7', considerable contortion, few quartz stringers, slight pyrite, carbonates in fractures. Lost core: 15.0-16.3', 18.7-19.2', 20.9-21.3', Core angles: 30° at 17.2', 54° at 23', 47° at 25', 20° at 28'.
31.6 32.9 Black graphitic siliceous argillite, lost core 32.6-32.9'.
32.9 36.5 Grey, fine grained argillite, numerous contorted siltstone beds, odd stringer quartz, slight pyrite, lost core: 36.2-36.5', core angle at 33.3' 40°.
36.5 63.7 Black graphitic siliceous argillite, well bedded, few contorted siltstone beds, few quartz stringers, carbonated in fractures. Lost core: 37.0-37.7', 38.3-39.0', 40.3-40.7', 46.2-46.8', 47.8-48.5', 50.6-51.3', 52.0-52.7', 53.4-54.1', 54.7-55.0', 56.4-61.2'

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Log Hole U-7 Contd.

Core angles: 42° at 43.5', 53° at 45.4', 41° at 55.7', 37° at 63.0'.
63.7 66.2 Black graphitic argillite, few quartz stringers, carbonate in fractures, fair pyrite, mineralized fine grained galena and pale brown disseminated sphalerite.
66.2 85.0 Black graphitic argillite, siliceous, few siltstone beds, some considerably contorted, carbonate in fractures, few quartz stringers, slight pyrite, pyrite abundant from 66.6-71.6' odd speck galena from 66.6-85.0'. Lost core: 66.2-66.6', 76.8-78.1', 80.3-81.0'.
85.0 125.0 Grey well bedded argillite, some crossbedding in siltstone, considerable contortion, thin quartz stringers abundant, slight pyrite, carbonate in fractures, graphite in occasional fractures. Lost core 101.7-102.4', Core angles: 38° at 88.8', 35° at 94.1', 41° at 99.1', 20° at 106.6', 66° at 118.6', 42° at 123.4'.
125.0 130.5 Siltstone, fine grained, numerous quartz stringers, slight pyrite, Core angles 32° at 129'.
130.5 153.0 Grey argillite, numerous siltstone beds, considerable contortion, few quartz stringers, slight pyrite, carbonates in fractures, graphitic from 147.0-148.0', core angles: 35° at 141', 39° at 150', 39° at 152.5'.
END OF HOLE 153.0'.

Log Diamond Drill Hole:

Hole Number: U-8 Flat S60° East.
N79741.81 Elevation: 4755.37 Depth 44.0'
E51168.81

Started: September 20th, 1970, Finished: September 21st, 1970.

Drilled By: Cameron McCutcheon Ltd.,

Logged By: I. Young.

0.0 23.0 Black graphitic siliceous argillite, well bedded,
few quartz stringers, stringers numerous from 20.7-23.0',
slight pyrite some leached, odd speck of sphalerite
at 8.7', carbonate in some fractures, Lost core: 0.9-1.6'
2.6'-3.3', 4.3-5.0', 5.3-6.1', 7.1-7.8', 8.8-9.6',
10.3-11.0', 11.9-12.6', 13.0-13.7', 14.3-15.0', 15.8-
16.5', 17.3-18.0', 18.7-19.4', 20.0-20.7', . Core
angles: 21° at 0.5', 14° at 8.0', 27° at 11.8', 17°
at 14.0, 46° at 19.8'.
23.0 31.8 Grey argillite, well bedded, numerous siltstone beds,
considerable contortion, abundant quartz stringers,
slight pyrite, carbonate in fractures, Lost core:
26.3-27.0', 28.1-28.8', 30.0-30.7', 31.1-31.8',
Core angles: 33° at 25.5'
31.8 33.9 Black graphitic argillite, well bedded, very slight
pyrite.
33.9 44.0 Grey argillite, numerous contorted siltstone beds,
slight pyrite, odd quartz stringers, Core angles:
55° at 37.5', 60° at 43.5'.
END OF HOLE 44.0'.

Log Diamond Drill Hole

Hole Number: U-9 Dip: +20° Strike:
N 79669.77 Elev: 4759.13 Depth: 395'
E 50970.72 Bearing N44°48'E

Date Started: Sept. 21st, 1970, Finished: Sept. 30th, 1970

Drilled By: Cameron McCutcheon Drilling Ltd.,

Logged By: I. Young

0.0 105.8 Grey, fine grained argillite, well bedded, few
thin siltstone beds, with considerable contortion,
from 88.0-89.5', numerous siltstone beds from
97.5-105.8', slight pyrite, occasional small
pyrite concretions, carbonate in fractures.
Lost core: 2.7-3.4', 4.3-5.0', 7.6-8.4', 9.3-10.0',
102.5-104', core angles 37° at 2.0', 57° at 11.5',
39° at 17', 55° at 30.5', 47° at 36', 76° at 47.5',
69° at 51.5', 39° at 68.5', 46° at 73', 30° at 77.5',
30° at 82.0', 59° at 87.0', 35° at 93.5', 17° at 97'.
105.8 114.3 Siltstone, few thin beds grey argillite, slight
pyrite, carbonate in fractures, odd quartz str.
Lost core 107-108', core angles 19° at 105.5',
12° at 110.5'
114.3 183.6 Grey, fine grained, well bedded argillite, thin
contorted siltstone, slight pyrite, graphitic at
122.2', few quartz stringers, carbonate in fractures.
Core angles: 8° at 115.6', 8° at 119.5', 21° at
122', 40° at 125', 62° at 130.4', 65° at 139.5'
42° at 145.6', 69° at 156', 16° at 162', 52° at 167',
46° at 173', 50° at 175', 53° at 180.3'.

Log Diamond Drill Hole.

Hole Number: U-10 -20° Bearing: N44°48'E

N79669.77 Dip: -20° Depth: 346'
E50970.72 Elevation: 4754.33

Date Started: Sept. 30th, 1970, Finished: October 6th, 1970

Drilled By: Cameron McCutcheon Drilling Ltd.,

Logged By: I Young

0.0 135.0 Grey siliceous argillite, well bedded, some contortion, numerous thin siltstone beds, slight pyrite, carbonate in fractures, siltstone very abundant 106-121'. Lost core: 32.3-33.0, 33.4-34.1' 35.0-36.3', 57.5-58.2', 59.5-60.0', 65.0-66.5', 69.3-70.0', 71.3-72.6', 88.9-90.0', 109.4-110.0' 113.7-114.4', 116.0-116.9', 117.5-118.2'. Core angles: 34° at 1.0', 33° at 13', 21° at 18', 42° at 26', 55° at 38', 50° at 43', 68° at 48', 48° at 53.5' 33° at 67', 46° at 76', 70° at 85', 55° at 92.2' 53° at 93.3', 30° at 103', 26° at 108.3', 34° at 114.5', 33° at 118.5', 35° at 122', 46° at 125.5', 52° at 131'.

135.0 142.8 Siltstone, fine grained, well bedded, few beds argillite, slight pyrite, very slight galena and sphalerite from 136.6-142.8'.

142.8 201.0 Grey fine grained argillite, well bedded, thin siltstone beds, numerous from 175-192', considerable contortion in this section, slight pyrite, carbonates in fractures, few quartz stringers, graphite in fracture at 174.4'. Lost core: 188.9-190.0', 190.6-191.5', 192.8-193.5'. Core angles: 59° at 143.6'

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Log U-10 Contd:

41° at 148.5', 38° at 150.5', 46° at 155', 35° at 161', 35° at 161', 40° at 173.5', 31° at 176', 28°

142.8 201.0 at 180.7', 42° at 185.5', 30° at 193.7', 33° at 194', 40° at 200'.

201.0 217.5 Black graphitic siliceous argillite, well bedded, odd thin siltstone beds, few quartz stringers, carbonate in fractures, slight pyrite. Lost core: 201.6-203.3', 203.8-204.5', 206.3-207.0', 210.4-215.0'. Core angles: 28° at 205.5', 25° at 211.0'.

217.5 346.0 Grey well bedded argillite, numerous siltstone beds, carbonate in fractures, few quartz stringers, slight pyrite, mineralized galena and sphalerite from 218.8-220.6', fair pyrite in this section. some pyrite leached, odd small galena at 256 and 258', conglomerate from 271.6-271.7' and 317.5-317.7'. Lost core: 230.0-231.4', 231.9-232.6', 235.4-236.5' 238.4-238.8', 248.5-249.6', 253.8-255.0', 260.2-260.3', 262.3-263.0', 264.0-264.8', 266.6-267.3', 269.3-270.1', 274.5-275.0', 279.7-280.0', 285.4-286.4', 296.1-296.9', 297.9-298.6', 310.2-311.6', 316.5-317.8', 323.5-324.2', 324.2-331.6', 342.1-343.1', 344.7-345.8'. Core angles: 44° at 110.5', 40° at 224.2', 29° at 224', 27° at 235', 13° at 244', 10° at 243', 45° at 244', 49° at 250.5', 22° at 256.3', 43° at 265.2', 30° at 274', 46° at 279.5', 51° at 289', 35° at 294', 22° at 305.7', 22° at 319', 23° at 316', 16° at 321', 22° at 334', 10° at 319.5', 28° at 344'.
End of Hole 346'

- 183.6 191.8 Black graphitic argillite, cherty, few quartz stringers carbonate in fractures, slight to fair pyrite, very slight galena and sphalerite from 185-191.8', core angles 35° at 187.5'.
- 191.8 216.6 Grey baritic limestone, well bedded, considerable contortion, occasional argillite and chert beds, carbonate in fractures, slight pyrite, slight galens, disseminated sphalerite in bedding, lost core 193.0-195.0, 196.5-197.5, 201.9-203.9' 205.0-206.3', 207.9-209.2', 210.0-211.3', 212.8-213.5' 215.0-215.7'. core angles: 39° at 192.3, 29° at 200', 13° at 206.7', 31° at 214.5'.
- 216.6 262.5 Black graphitic argillite, cherty, few quartz stringers, carbonate in fractures, very slight pyrite, from 216.6-220.0' slight galena and sphalerite, few specks galena from 246.7-249.7', lost core 222.8-223.5', core angles, 33° at 219', 56° at 233.5', 61° at 237.6', 21° at 246'.
- 262.5 385.0 Grey fine grained siliceous argillite, well bedded, considerable contortion, numerous siltstone beds, few quartz stringers, numerous quartz stringers from 350-352.5', siltstone very abundant from 302.5-320.0', fair pyrite in siltstone from 188-297.3', 302.5-320.0', 346.3-348.7', 360.0-361.5', some pyrite leached, few specks galena at 275.5', carbonates in fractures. Lost core 265.7-266.8', 267.4-268.0', 300.0-300.5', 303.7-305.0', 307.3-308.0', 310.2-312.2, 352.5-353.1', 371.4-372.1', 379.3-380.0', core angles: 14° at 269.5', 34° at 275.2', 46° at 281.5', 43° at 285.5', 35° at 313.2', 48° at 293.3', 49° at 296.5'

Log diamond drill hole U-9 contd.

- 15° at 306.3', 12° at 316.5', 40° at 333.5', 34° at 343', 50° at 347', 32° at 350.5', 30° at 360.2', 36° at 366.3', 49° at 373.3', 29° at 376.5', 35° at 381.0'.
- 385.0 386.8 Conglomerate, medium grained, angular fragments of chert, quartz and argillite, slight pyrite, graphite in fracture at 385.4', odd thin bed argillite and siltstone.
- 386.6 395.0 Grey fine grained siliceous argillite, well bedded, numerous siltstone beds, considerable contortion, carbonates in a few fractures, slight pyrite, lost core 390.5-391.2', core angles 26° at 392.3, 12° at 393.5'

End of Hole 395'

Log Diamond Drill Hole.

Hole Number: 11

N79743.68 Dip: 0° Direction: S58°11'E
E51180.47 Elevation: 4755.69 Depth: 199'

Date Started: October 6th, 1970. Finished: October 9th, 1970

Drilled By: Cameron McCutcheon Drilling Ltd.,

Logged By: I. Young.

0.0 176.0 Grey siliceous argillite, well bedded, some contortion, numerous thin siltstone beds, abundant from 149.5-160.0', siltstone from 146.3-147.2' becomes finer grained at 147.2' (Top of bed), graphitic in fractures from 17.2-17.7', 41.1-41.5', slight pyrite, some leached, quartz stringers abundant from 96.6-103.8', very abundant from 163.0-164.3', conglomerate from 173.8-174.2', few small angular fragments of chert and quartz from 170.0-170.6', carbonate in fractures. Core angles: 32° at 2.0', 25° at 8.5', 18° at 10.6', 23° at 22.5', 38° at 28', 32° at 33', 28° at 41.0', 15° at 45.0', 8° at 48.0', 11° at 50.6', 24° at 58', 32° at 64', 26° at 69.5', 30° at 72', 27° at 75.0', 37° at 80', 53° at 93.5', 27° at 106.22, 42° at 114.5', 36° at 118', 25° at 123.2', 49° at 129.5', 58° at 133.5', 60° at 139.5', 27° at 143', 22° at 148.5', 30° at 150.5', ~~180°~~ 18° at 155', 37° at 161', 38° at 167.5', 38° at 173.7', 15° at 175.5'. Lost core: 6.0-6.8', 7.2-8.2', 14.1-14.8', 15.6-16.7', 18.1'-190.', 19.7-20.7', 23.5-24.2', 32.1-32.8', 33.9-35.0', 35.4-36.8', 37.4-38.8', 51.0-52.3', 53.5-55.0', 55.5-57.4', 61.3-62.1', 76.2-77.7', 110.9-112.5', 118.7-120.0', 120.6-121.3', 130.0-131.4'.

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Log Diamond Drill Hole Number 11 contd.

176.0 177.5 Conglomerate, angular ~~fragments~~ to subangular fragments 1/20 to 2", of quartz, chert and argillite, slight pyrite.
177.5 199.0 Grey, siliceous argillite, well bedded, siltstone beds less than 1/20" to 2" numerous, some beds contorted, slight pyrite, , numerous white quartz stringers from 177.5-178.3' and 191.0-191.7', fair pyrite in quartz stringers. Core angles: 42° at 185.8', 30° at 194.7', Lost core: 180.0-181.5', 182.3-183.1', 183.5-185.0', 192.3-193.3'.
End of Hole 199.0'

Log Diamond Drill Hole:

Hole Number: U-12

N80015.44 Dip: Flat Bearing: S65°06'W
E51026.39 Elevation: 4755.51 Depth: 50.0'

Date Started: October 9th, 1970, Finished: October 10th, 1970.

Drilled By: Cameron McCutcheon Drilling Ltd.,

Logged By: I. Young.

0.0 50.0 Grey, siliceous argillite, well bedded, numerous thin siltstone beds, slight contortion, graphite in few fractures, from 0.3-2.0' numerous quartz stringers, slight pyrite, carbonate in fractures. Core angles: 42° at 0.3', 35° at 6', 18° at 11.2' 25° at 15', 40° at 21.5', 24° at 24', 35° at 29' 28° at 34.5', 40° at 39.5', 43° at 45', 42° at 47.5'.

End of Hole 50.0'

Log Diamond Drill Hole:

Hole Number: U-13

Dip: 0°

Bearing: N65°39'E

N80019.44

E51040.05

Elevation: 4755.51

Depth: 52'

Date started: October 10th, 1970, Finished: October 10th, 1970

Drilled By: Cameron McCutcheon Drilling Ltd.,

Logged By: I. Young.

0.0 3.7 Grey, siliceous argillite, well bedded, some contortion, thin siltstone beds less than 1/10" to 1/4", numerous quartz stringers, slight pyrite, carbonate in fractures, Core angle 27° at 1.0'.

3.7 7.7 Siltstone, fine grained, well bedded, considerable ~~contortion~~ contortion, odd bed siliceous argillite, occasional quartz stringers, slight pyrite, some leached, core angle at 5.0' 41°.

7.7 12.7 Grey, siliceous argillite, well bedded, numerous siltstone beds, considerable contortion, slight pyrite, occasional quartz stringers, core angle 47° at 9.5'.

12.7 22.9 Siltstone, fine grained, well bedded, some contortion, numerous beds argillite, fair pyrite in siltstone, Occasional stringers white quartz, core angles 40° at 15', 20° at 20'.

22.9 52.0 Grey, siliceous argillite, well bedded, thin siltstone beds, few quartz stringers, fair pyrite in the siltstone, pyrite leached, core angles: 26° at 24.5' 45° at 34.5', 35° at 38.0', 25° at 45', 28° at 52'.

End of Hole 52.0'.

Log Diamond Drill Hole.

Hole Number: U-14

Dip: 0° Bearing: N56°31'E

N79847.72
E51081.10

Depth 41'
Elevation: 4755.43

Date Started: October 11th, 1970 Finished: October 11, 1970

Drilled By: Cameron McCutcheon Drilling Ltd.,

Logged By: I. Young.

- 0.0 12.4 Grey, siliceous argillite, well bedded, numerous thin limestone beds, considerable contortion of baritic limestone beds, limestone abundant from 6.6-7.3', barite crystals 4.7-5.0', few quartz stringers, slight pyrite, slight galena, pale brown sphalerite in bedding, fair sphalerite 6.6-7.3'. Lost core 9.3-10.0', 11.1-12.4'. Core angles: 10° at 3.0', 17° at 5.2'.
- 12.4 25.0 Grey, baritic limestone, well bedded, considerable contortion, occasional beds black chert and argillite, slight pyrite, slight galena, pale brown sphalerite in bedding, lost core: 16.4-19.1', 20.0-24.1', core angles: 30° at 15.5', 18° at 24.2'.
- 25.0 27.7 Grey argillite, beds of baritic limestone with severe contortion, fair pyrite, slight to fair galena, pale brown disseminated sphalerite along bedding, carbonates in fractures. Lost core: 25.0-25.7'
- 27.7 41.0 Black graphitic siliceous argillite, well bedded, thin siltstone beds from 36.5' more numerous towards bottom of hole, slight pyrite, carbonate in

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Log diamond drill hole U-14 Contd.

fractures, Core angles 36° at 30', 25° at 32', 33° at 37'
33° at 39.3', 34° at 41'.
End of Hole 41'.

Log Diamond Drill Hole.

Hole Number: U-15 Dip: 0° Bearing: N65°54'E

N77533.87 Elevation: 4759.87
E50946.46 Depth: 76'

Date Started: October 12th, 1970, Finished: October 13th, 1970.

Drilled By: Cameron McCutcheon Drilling Ltd.,

Logged By: I. Young.

0.0 19.3 Grey baritic limestone, well bedded, considerable contortion, few chert beds, very slight pyrite, slight galena, pale brown sphalerite disseminated along bedding, occasional quartz stringers. Lost core: 12.2-12.9', Core angles: 52° at 1.0', 56° at 7.0', 50° at 10.0', 48° at 14.5'.
19.2 50.1 Grey argillite, beds baritic limestone from 19.3-37'. limestone beds contorted, mineralized fair galena and sphalerite to 35.9' to 38.6', fair pyrite and visible galena 38.6-50.1', carbonate in fractures, few quartz stringers, abundant 45.0-48.3', core angles: 56° at 25.5', 24° at 38', 36° at 42.5', 23° at 49.5'.
50.1 76.0 Grey, siliceous argillite, well bedded, few thin siltstone beds, white quartz with argillite fragments 51.5-52.5' with slight galena, slight pyrite and galena in siltstone 65.4-65.6', carbonate in numerous fractures. Lost core: 55.0-56.3', 64.3-65.0'. Core angles: 36° at 51.0', 49° at 57.7', 16° at 65.5', 38° at 67.5', 30° at 72.2'.
End of hole 76.0'.

Log Diamond Drill Hole.

Hole Number: U-16. Dip: 0° Bearing: N64°36'E

N77728.40 Elevation: 4747.91
E50910.77 Depth: 55.0'

Date Started: October 13th, 1970, Finished: October 14th, 1970.

Drilled By: Cameron McCutcheon Drilling Ltd.,

Logged By: I. Young

0.0 17.7 Grey baritic limestone, well bedded, considerable contortion, narrow beds black chert, slight pyrite and galena, pale brown sphalerite disseminated along bedding, carbonate in fractures, Lost core: 3.9-5.0', 6.7-8.9', 10.3-11.0', 12.4-13.1', Core angles: 59° at 0.3', 42° at 6', 25° at 15', 29° at 17.5'.
17.7 19.0 Lost core.
19.0 20.0 Dark grey chert, few specks pyrite.
20.0 23.3 Lost core.
23.3 24.3 Grey baritic limestone, few beds chert, slight pyrite and galena, sphalerite in bedding.
24.3 27.2 Lost core.
27.2 55.0 Grey, siliceous argillite, well bedded, numerous thin siltstone beds, numerous quartz stringers, slight pyrite, galena and sphalerite to 31.7', very slight galena from 31.7-36.6'. Core angles: 34° at 33', 35° at 38', 27° at 47.5', 16° at 55'.
End of Hole 55.0'.

Log Diamond Drill Hole

Hole Number: U-17

Dip: 0°

Bearing: S62°26'W

N77721.42
E50899.06

Elevation: 4757.56
Depth: 73.0'

Date Started: October 14th, 1970 Finished: October 15th, 1970

Drilled By: Cameron McCutcheon Drilling Ltd.,

Logged By: I. Young.

0.0 48.0 Dark grey baritic limestone, well bedded,
considerable contortion, numerous beds black chert,
slight pyrite and galena, slight pale brown
disseminated sphalerite in bedding, few stringers
white quartz, carbonate in fractures.
Lost core: 2.8-3.5', 5.0-5.6'. Core angles: 25° at 1',
39° at 6.0', 48° at 11.0', 24° at 21', 24° at 16',
28° at 26', 32° at 31', 18° at 37', 19° at 42', 25° at 47'
48.0 73.0 Black graphitic siliceous argillite, well bedded,
few thin siltstone beds, very slight pyrite,
occasional quartz stringers, carbonate in fractures,
core angles 35° at 53', 20° at 55.5', 16° at 66.0',
30° at 71.5'.
End of Hole 73.0'

Log Diamond Drill Hole.

Hole Number: U-18

Dip 0°

Bearing: N65°47'E

N78131.48
E50832.81

Elevation: 4754.82
Depth: 62.0'

Date Started: October 16th, 1970, Finished: October 16th, 1970.

Drilled By: Cameron McCutcheon Drilling Ltd.,

Logged By: I. Young

0.0 30.9 Grey baritic limestone, well bedded, considerable
contortion, beds black chert, all at pyrite and
galena, pale brown disseminated sphalerite in
bedding, occasional stringers white quartz, carbonate
in fractures, Lost core: 4.6-5.0', 6.3-7.2', 9.3-10.5'.
Core angles: 61° at 0.5', 25° at 5.3', 30° at 10.5',
31° at 15.5', 33° at 21.4', 29° at 26.5', 40° at 30.5'.
30.9 62.0 Grey, siliceous argillite, well bedded, thin
siltstone beds, few thin limestone beds 31.6-32.6',
limestone contorted, fair pyrite, some leached,
mineralized galena and sphalerite to 37.4', visible
galena 37.4-40.9', occasional quartz stringers,
carbonate in fractures, Lost core: 47.0-47.7', 55.0-
55.8', 57.6-60.7', Core angles: 33° at 35.5', 51° at
~~XXX~~ 44.0', 39° at 48.3', 28° at 52.4'.
End of Hole 62.0'.

Log Diamond Drill Hole.

Hole Number: U-19.

N78127.07 Dip: 0° Bearing: S65°47'W
350818.74 Elevation: 4754.92 Depth: 92.0'.

Date Started: October 17th, 1970. Finished: October 17th, 1970.

Drilled By: Cameron McCutcheon Drilling Ltd.,

Logged By: I Young

0.0 73.4 Dark grey baritic limestone, well bedded, considerable contortion, occasional beds black chert, more frequent from 58.5-73.4', slight pyrite, slight galena, pale brown sphalerite disseminated in bedding, odd stringer white quartz, carbonate and barite crystals in odd fracture. Lost core: 32.8-35.0', 36.2-38.2', 41.6-42.9', 55.4-56.7', 60.0-60.8', 62.6-63.2'.
Core angles: 22° at 5', 19° at 10', 40° at 15', 24° at 20', 25° at 25', 26° at 31', 17° at 35', 19° at 40', 42° at 45', 38° at 50', 40° at 55', 49° at 59.3', 39° at 62.3', 24° at 66.5', 36° at 72.5', 37° at 85.5', 43° at 89', 21° at 91'.
73.4 92.0 Black graphitic siliceous argillite, well bedded, few thin siltstone beds, odd stringer white quartz, very slight pyrite, carbonate in fractures.
End of Hole 92.0'.

Log Diamond Drill Hole

Hole Number: U-20

N78298.72 Dip: 0° Bearing: N65°13'E
E50738.64 Elevation: 4754.60 Depth: 73.0'

Date Started: Oct. 17th, 1970. Finished: Oct. 18th, 1970.

Drilled By: Cameron McCutcheon Drilling Ltd.,

Logged By: I Young.

0.0 20.0 Grey baritic limestone, well bedded, considerable contortion, very slight pyrite, slight galena, and pale brown disseminated sphalerite in bedding, occasional beds black chert, light grey chert abundant 10.0-12.0', occasional stringers white quartz, Core angles: 14° at 1.0', 24° at 7.0', 39° at 13', 29° at 18.0'.
20.0 73.0 Black graphitic argillite, siliceous, well bedded, occasional beds siltstone, . limestone with galena and sphalerite 20.3-21.0', occasional beds siltstone 21.0-31.5', slight pyrite, occasional stringers white quartz, carbonate in fractures. Lost core: 22.0-22.7', Core angles: 30° at 23', 32° at 27.5', 25° at 33.2', 24° at 39.4', 20° at 44.5', 15° at 49.8', 13° at 53.9', 17° at 58.7', 21° at 64', 19° at 67.6'.
End of Hole 73'

Log Diamond Drill Hole.

Hole Number: U-21 Dip: +45° Depth: 297'

N79668.24 Elevation: 4761.58
E50968.96 Bearing: N44°48'E

Date started: October 19th, 1970, Finished: October 25th, 1970.

Drilled By: Cameron McCutcheon Drilling Limited.

Logged By: I. Young.

0.0 119.6 Grey, siliceous argillite, well bedded, considerable contortion of some beds, thin beds siltstone, numerous 101.6-119.6', occasional stringers white quartz, white quartz 105.4-106.0', very slight pyrite, carbonates in fractures, core angles: 45° at 2', 30° at 7', 67° at 15', 63° at 22', 49° at 30', 56° at 40', 53° at 44', 71° at 50', 44° at 56.5', 38° at 66.5', 15° at 75', 19° at 80', 24° at 85', 17° at 90', 45° at 95', 21° at 100', 30° at 104.5', 20° at 110', 18° at 113', 27° at 119.5'.
119.6 122.2 Fine grained quartz rich siltstone, occasional quartz stringers, very slight pyrite.
122.2 165.6 Grey, siliceous argillite, considerable contortion of some beds, occasional siltstone beds, few quartz stringers, slight pyrite, graphitic from 126.9-127.0'. Core angles: 20° at 129.7', 61° at 134.5', 46° at 139.5', 29° at 149.5', 35° at 153.5', 38° at 156.0', 55° at 165'.
165.6 192.2 Black graphitic siliceous argillite, well bedded, odd thin bed siltstone, slight pyrite, carbonate in fractures, core angles: 44° at 169', 40° at 173.5', 45° at 177', 64° at 183.7'.

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Log Diamond Drill Hole U-21 Contd.

192.2 208.8 Grey, baritic limestone, well bedded, considerable contortion, thin beds black chert, most numerous from 192.2-193.8' and from 203.5-205.8', slight pyrite and galena, fair galena 195.5-197.5', pale brown disseminated sphalerite in bedding, carbonates in fractures, Core angles: 23° at 195', 22° at 196.5'.
208.8 255.2 Black graphitic argillite, siliceous, well bedded, very slight pyrite, odd stringers white quartz, carbonate in fractures, Lost core 211.6-212.5', 246.5-247.2', 252.0-254.6'. Core angles: 40° at 209', 31° at 214', 12° at 217', 15° at 236'.
255.2 261.0 Grey, siliceous argillite, well bedded, considerable contortion, siltstone beds abundant, occasional quartz stringers, carbonates in fractures, slight pyrite, core angles: 35° at 262'.
261.0 276.7 Black graphitic, siliceous argillite, ~~xxxxxxx~~, massive, slight pyrite, Core angles: 30° at 263.6', 29° at 267.5'.
276.7 297.0 Grey, siliceous argillite, well bedded, numerous siltstone beds, considerable contortion, odd stringers quartz, slight pyrite, Core angles: 61° at 282', 39° at 289', 39° at 295.5'.
END OF HOLE 297'

Log Diamond Drill Hole

Hole Number: U-22 Dip: Flat Bearing: S64°00'E

N79661.84 Elevation: 4754.88
E50967.39 Depth: 324'

Date Started: October 25th, 1970, Finished: October 28th, 1970.

Drilled By: Cameron McCutcheon Drilling Ltd.,

Logged By: I. Young

- 0.0 106.3 Grey, siliceous argillite, well bedded, few beds fine grained siltstone, some contorted, slight pyrite, occasional stringer white quartz, carbonate stringers in fractures, Lost core: 1.4-2.2', 4.7-5.7', 9.0-9.7', Core angles: 53° at 45', 39° at 14.5', 45° at 25', 63° at 35', 52° at 44.5', 43° at 49.4', 55° at 56', 54° at 67', 36° at 72.8', 66° at 85.5', 60° at 93.3', 22° at 100.5'.
- 106.3 107.9' Siltstone, fine grained, slight pyrite.
- 107.9 208.0 Grey, siliceous argillite, well bedded, occasional siltstone beds, slight pyrite, occasional stringers of white quartz, carbonate in odd fracture, Lost core: 171.7-172.7' 174.1-175.0', 180.0-189.6'. Core angles: 33° at 108.3', 70° at 119', 61° at 133', 58° at 143', 55° at 149.5', 61° at 154.5', 59° at 164', 60° at 175.5', 53° at 181.7', 46° at 185', 18° at 189.2', 13° at 194.28, 13° at 197.6', 32° at 207'.
- 208.0 209.2 Conglomerate, angular fragments, 1/10-1/2" diameter, of quartz, chert and argillite, slight pyrite.
- 209.0 226.5 Grey, siliceous argillite, well bedded, considerable contortion, numerous thin siltstone beds, white

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Log Diamond Drill Hole 22 Contd.

- quartz from 221.6-222.1', few quartz stringers, slight pyrite, core angle: 60° at 219.5'.
- 226.5 227.5 Conglomerate, angular fragments of chert, argillite, and quartz, fragments smaller than previous section, slight pyrite.
- 227.5 324.0 Grey, siliceous argillite, well bedded, numerous fine grained siltstone beds, very abundant from 304.2-324.0', some contorted, stringers of white quartz from 234.4-235.3', slight pyrite, graphite from 290.9-291.2', Lost core: 272.4-275.0', 297.4-298.0', 301.5-302.8', Core angles: 26° at 228.6', 9° at 238.5', 12° at 264.3', 33° at 275', 51° at 281', 64° at 292.5', 33° at 301.0', 56° at 309.5', 42° at 319.2', 323.2'.
- END OF HOLE 324.0'.

Log Diamond Drill Hole.

Hole Number: U-23 Dip: 0°
 No. 218.03 Elevation: 4755.77
 E50989.54 Depth 35.0' Bearing: N63° 14'E

Date Started: October 28th, 1970, Finished: October 29th, 1970

Drilled By: Cameron McCutcheon Drilling Ltd..

Logged By: I. Young

0.0 16.5 Grey, siliceous argillite, well bedded, numerous siltstone beds, occasional stringer white quartz, slight pyrite, fair from 11.2-11.8', Lost core: 0.0-0.7', 1.5-2.3', 3.0-3.6', 5.4-6.1', Core angles: 32° at 3.7', 28° at 8.6', 39° at 14.4'

16.5 35.0 Conglomerate, medium sized fragments of quartz, chert and ~~XXXX~~argillite, occasional beds of grey argillite from 18.7-20.3', from 21.8-23.6' slight pyrite, some oxidation, occasional stringers white quartz, carbonates in fractures, core angles: 30° at 19'.

END OF HOLE 35.0'

Log Diamond Drill Hole.

Hole Number: U-24 Dip: 0° Bearing: S60° 30' W
 N80213.25 Elevation: 4755.72
 E50973.76 Depth: 269'

Date Started: October 29, 1970, Finished: ~~XXXXXX~~ November 5, 1970

Drilled By: Cameron McCutcheon Drilling Ltd..

Logged By: I. Young

0.0 7.4 Conglomerate, angular fragments chert, quartz and argillite, slight pyrite, some oxidation of pyrite 0.0-0.6' argillite, Lost core 2.4-6.4'

7.4 35.5 Dark grey siliceous argillite, in parts graphitic, occasional chert beds, well bedded, some contortion, carbonate in fractures, slight pyrite, mineralized slight galena and sphalerite from 7.4-34.1', fair galena from 13.5-33.0', core angles 13° at 9.3', 49° at 15.5', 33° at 19.2', 38° at 23.5', 34° at 28'.

35.5 38.0 Massive pyrite, odd speck of galena, carbonates in fractures.

38.0 53.5 Black graphitic siliceous argillite, numerous quartz stringers, carbonates in fractures, massive pyrite from 47.2-48.6' with odd speck galena, mineralize d pyrite from 49.7-53.5', few specks chalcopryite, galena and sphalerite in pyrite (49.7-53.5'), Core angle 35° at 39.5'

53.5 269.0 Grey, siliceous argillite, well bedded, numerous thin siltstone beds, slight pyrite, con lomerate from 55.8-56.0', occasional quartz string ers, abundant from, ~~XXXXXXXXXXXX~~ 226.0-227.2', core broken from 61.5-94.5', and from 230-256.6', mud in sections 230.0-250.0'. Sludge samples taken

Log hole U-2A contd.

in the following: 80.0-90.0', 230.0-240.0',
240.0-250.0'. The amount of water produced by this
hole started to increase rapidly at 200'. Lost
core: 62.8-64.0', 65.2-66.7', 70.4-71.8', 74.3-
75.0', 82.3-84.3', 85.5-88.8', 217.5-218.1',
227.5-228.2', 231.0-233.0', 233.7-238.3', 242.5-
251.4', 256.0-258.6'. Core angles: 46° at 57.7',
59° at 69', 56° at 73.5', 36° at 102', 55° at 109',
42° at 113.5', 65° at 123.5', 37° at 127.4', 49°
at 136.8', 45° at 142', 57° at 156', 67° at 161',
43° at 166.4', 48° at 173.3', 42° at 186.6', 37° at
191', 57° at 196', 56° at 203.5', 41° at 208.8',
38° at 213.7', 44° at 223.9', 28° at 227.0', 37° at
253.5', 24° at 259.5', 17° at 263.5', 8° at 268.5'.
End of Hole 269.0'

Log Diamond Drill Hole.

Hole Number U-25

Dip: 0°

Depth: 94'

N80217.68
E50974.52

Elevation: 4755.72
Bearing: N71°20'W

Date Started: November 5th, 1970, Finished: November 7th, 1970.

Drilled By: Cameron McCutcheon Drilling Ltd.,

Logged By: I. Young

0.0	54.0	Dark grey, siliceous argillite, slightly graphitic well bedded, numerous thin beds siltstone, slight pyrite, some oxidation, few quartz stringers, conglomerate 5.1-5.4', carbonate in fractures, mineralized slight galena and red brown disseminated sphalerite in bed from 42.5-53.7', core broken from 25.0-36.0' and 39.0-50.0', Lost core 4.3-5.0', 17.2-18.6', 25.0-27.7', 31.1-33.1'. Core angles: 52° at 1.2', 30° at 13.5', 34° at 21.0', 25° at 38.4', 62° at 49.5', 32° at 52.5'.
54.0	55.2	Conglomerate, subangular fragments of chert, quartz and argillite, slight pyrite.
55.2	77.5'	Black graphitic argillite, well bedded, considerable contortion, fair pyrite, some oxidation, carbonate in numerous fractures, occasional quartz stringers, mineralized slight galena and sphalerite from 62.1-63.1', very slight from 66.1-69.4', slight galena and sphalerite from 69.4-71.8', few graphitic galena from 71.8-74.4', core recovered from 33-34.1'. Lost core 57.2-58.6', 60.2-62.1', 76.2-77.5'. Core angles: 16° at 59'.

Log diamond Drill Hole Number U-25 contd.

77.5 94.0 Conglomerate, angular to subangular fragments of
chert, quartz and argillite, carbonate and
graphite fill ~~in~~ few fractures, coarse conglomerate
from 77.5-86.6', grey argillite from 86.6-88.0'
separated the coarse from medium conglomerate which starts at
88.0' and continues to end of the hole. slight
pyrite.
End Of Hole 94.0'.

Log Diamond Drill Hole:

Hole Number: U-26

N80213.25 Dip: -40° S66°38'W 356
E50973.76 Elevation: 4751.58 Depth: 274'

Date Started: November 7th, 1970 Finished: November 11th, 1970

Drilled By: Cameron McCutcheon Drilling Ltd..

Logged By: I. Young

0.0	4.3	Grey siliceous argillite, well bedded, quartz stringers abundant, numerous thin siltstone beds, slight contortion, lost core 3.6-4.3', core angles: 45° at 2.0'.
4.3	5.0	Conglomerate, subangular fragments, ~~xxxxxxx~~ ~~xxxxxxxxxxxxxxxxxxxx~~ chert, argillite, and quartz, slight graphite, odd speck pyrite.
5.0	14.2	Black graphitic argillite, massive, occasional stringers white quartz, siltstone from 13.8-14.2', slight pyrite, fair pyrite in siltstone.
14.2	20.0	Lost core.
20.0	25.5	Conglomerate, medium grained, subangular fragments very slight pyrite, graphite in fractures, Lost core 20.7-21.3', 21.9-22.6', 23.2-25.0'.
25.5	60.3	Black graphitic argillite, well bedded, considerable contortion, frequent siltstone beds, occasional quartz stringers, slight pyrite, mineralized slight pyrite galena and brown sphalerite from 28.7-33.0', brown to reddish sphalerite occurs in bedding, Lost core: 25.7-26.9', 27.4-28.7', 31.2-31.9', 32.1-33.7', 35.0-37.6', 38.5-39.8'.

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Core angles: ~~XX~~ 64° at 29.5', 61° at 44.5', 56° at 56',
core fractures from 23-50', sludge samples taken
from 23-53'.

- 60.3 70.5 Conglomerate, beds black graphitic argillite,
considerable contortion, slight pyrite, carbonate
in fractures.
- 70.5 73.0 Black graphitic argillite, well bedded, occasional
bed siltstone, considerable contortion, few
stringers quartz.
- 73.0 99.0 Conglomerate, subangular fragments of chert, and
argillite, few contorted beds of graphitic
argillite, white quartz very abundant from 90.0-
91.0', slight pyrite, some leached, several beds
siltstone. core angles: 36° at 74', 36° at 78.5',
43° at 89'.
- 99.0 358.0 Grey well bedded argillite, siliceous, thin beds
siltstone, occasional stringers white quartz,
graphite and carbonate in fractures, slight pyrite,
mud from 207.9-208.5', core fractures in following:
181-184', 203-206.5', 261-267', 275.5-285', 287.3-
296.5', 303.3-319', 341.8-350'.
Lost core 275.6-276.9', 288.1-290.0', 290.6-293.2',
294.6-296.3', 304.1-304.8', 305.5-307.5', 345.7-350.0'
Core angles: 51° at 100', 18° at 104.4', 31° at 115',
51° at 125', 11° at 132', 74° at 142', 26° at 151',
67° at 161', 58° at 167.5', 23° at 175', 31° at 181',
32° at 190', 47° at 200', 49° at 220', 50° at 225'

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Log diamond Drill Hole U-26 Contd.

55° at 235', 60° at 245', 60° at 250', 62° at 258.5',
57° at 272', 50° at 286', 23° at 294', 36° at 302',
24° at 309.5', 57° at 322', 48° at 352'.
End of Hole 358'

Log Diamond Drill Hole.

Hole Number: U-27

N30213.87 Dip: +40° Bearing: S68°38'W
E50975.60 Elevation: 4761.87 Depth: 99'

Date Started: November 11th, 1970, Finished: November 12th, 1970.

Drilled By: Cameron McCutcheon Drilling Ltd.

Logged By: I. Young

0.0 3.3 Grey siliceous ~~argillite~~ siltstone, occasional beds contorted argillite, slight pyrite. Lost core: 0.0-1.4', 1.8-2.5'.

3.8 76.4 Black graphitic argillite, well bedded, scattered beds siltstone, considerable contortion, slight pyrite, occasional stringers white quartz, carbonate and barite in fractures, occasional beds black chert, mineralized galena and red brown sphalerite from 12.5-75.7', very slight galena and sphalerite from 12.5-13.8', slight mineralization from 13.8-36.8', near massive galena from 36.8-46.2', fair mineralization from 46.2-49.0', slight mineralization from 49.0-52.9', near massive galena from 52.9-57.1', visible chalcopryrite from 53.0-60.0', fair galena and sphalerite from 57.1-60.4', slight galena and sphalerite from 60.4-71.2', near massive galena 71.2-73.7', very slight mineralization 73.7-75.7', massive pyrite 37.5-38.0', Core angles: 47° at 22.7' 55° at 29', 42° at 34.5', 63° at 49.5', 45° at 51.58

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Log Diamond Drill Hole U-27 Contd.

62° at 61', 47° at 66.5'.

76.4 90.0 Grey siliceous argillite, occasional beds siltstone, stringers white quartz, very slight pyrite, barite crystals in fractures.

Core angles: 59° at 81.5', 60° at 88'.

90.0 99.0 Black graphitic argillite, few quartz stringers very slight pyrite, barite crystals in fractures, core angles: 59° at 96'.

END OF HOLE 99'

Log Diamond Drill Hole.

Hole Number: U-28

N77339.40 Dip: 0° Bearing: N67°31'E
E51057.71 Elevation: 4059.71 Depth 97'

Date Started: November 13th, 1970, Finished: November 13th, 1970

Drilled By: Cameron McCutcheon Drilling Ltd..

Logged By: J.I. Young

0.0 46.5 Black graphitic argillite, well bedded, occasional
beds siltstone, scattered quartz stringers,
carbonate and barite in fractures, slight pyrite,
fair pyrite from 30.4-33.4', some leached,
Mineralized galena and brown disseminated in
bedding, very slight galena and sphalerite 0.0-6.3',
and 10.0-11.4', slight mineralization 11.4-20.9',
and from 25.0-28.4', very slight galena and
sphalerite from 28.4-35.0' and from 37.6-38.9',
slight sphalerite and odd speck galena from 45.0-
46.5', Lost core 6.3-10.0', 20.9-25.0', 35.0-37.6',
38.9-40.0', Core angles: 52° at 11', 28° at 42.5',
46.5- 77.3 Grey, siliceous argillite, well bedded, considerable
contortion, deformed siltstone beds and fragments
occur frequently, siltstone very abundant from
53.3-73.3', slight pyrite, carbonates in fractures,
occasional stringers white quartz, Core angles:
53° at 47.5', 54° at 56', 35° at 62', 45° at 70',
20° at 73'.

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Log Diamond Drill Hole U-28 Contd.

77.3 97.0 Conglomerate, subangular to well rounded
fragments chert, argillite and quartz, numerous
stringers white quartz, very slight pyrite,
siltstone abundant from 75.0-82.2', siltstone well
bedded with occasional beds grey argillite, core
angles: 20° at 77.5', 20° at 83.4'.
End of Hole 97.0'.

Log Diamond Drill Hole.

Hole Number U-29

N77333.80 Dip: 0° Bearing: S67°31'W
E51047.72 Elevation: 4760.00

Date Started: November 14th, 1970, Finished: November 14th, 1970.

Drilled By: Cameron McCutcheon Drilling Ltd.,

Logged By: I. Young

0.0 37.0 Black graphitic argillite, well bedded from 0.0-5.0',
very massive from 5.0-37.0', . occasional
stringers white quartz, slight pyrite, core
fractured from 3.0-20.0', Lost core: 10.0-12.0',
15.0-17.7', Core angles: 36° at 2.0'.
End of Hole 37.0'.

Log Diamond Drill Hole.

Hole Number: U-30

N80055.97 Dip: +25° Bearing: S65°54'W
E51184.14 Elevation: 4760.11 Depth: 207'

Date Started: November 14th, 1970, Finished: November 16th, 1970.

Drilled By: Cameron McCutcheon Drilling Ltd.,

Logged By: I. Young.

0.0 44.0 Conglomerate, subangular fragments white quartz
chert and argillite, slight pyrite, odd speck
chalcopyrite, carbonate and barite in fractures.
Lost core: 0.0-2.0', 2.6-3.3', 7.3-8.7', 9.4-10.7',
11.8-15.0', 24.5-26.3', 36.7-38.0'.
44.0 167.0 Grey, siliceous argillite, well bedded, numerous
thin beds siltstone and small siltstone fragments,
considerable contortion of some beds, occasional
quartz stringers, slight pyrite and odd speck
chalcopyrite from 44.0-78.3' and 96.4-97.3'.
Mineralized very slight galena from 160.0-167'.
Lost core: 45.7-47.9', 50.5-57.1', 61.2-66.8',
68.7-70.7', 73.1-75.0', 78.3-80.0', 81.0-81.7',
82.9-84.2', 86.0-88.3', 90.6-92.1', 92.0-94.1',
95.0-96.4', 98.5-100.0', Ground broken from 48-100',
sludge samples collected from this section. Core
angles: 33° at 4', 43° at 50.9', 35° at 172.5', 11° at 105',
53° at 75.7', 42° at 84.6', 51° at 95', 11° at 105',
15° at 115', 16° at 125', 42° at 125', 40° at 131.1',
15° at 144.5', 41° at 150.1', 30° at 151', 42°
at 167'.

Log Diamond Drill Hole U-30 Contd.

167.0 181.2' Black graphitic argillite, massive, occasional quartz stringers, slight pyrite, slight galena and sphalerite from 177.4-180.2', fair pyrite in this section. Core angles: 51° at 177', 66° at 184.5', 60° at 190', 58° at 200', 56° at 204'.

181.2 207.0 Grey, siliceous argillite, well bedded, numerous siltstone beds, slight pyrite, occasional quartz stringers.

End of Hole 207'

Log Diamond Drill Hole

Hole Number: U-31

N80055.90 Dip: 40° Bearing: 315°
E51183.95 Elevation: 4753.22 Depth: 216'

Date Started: November 16th, 1970. Finished: November 19th, 1970.

Drilled By: Cameron McCutcheon Drilling Ltd.,

Logged By: I. Young.

0.0 33.5 Conglomerate, medium to coarse grained fragments quartz, chert and argillite, slight pyrite, some leaching, white quartz very abundant from 22.0-29.7'. Lost core 2.4-4.4', 5.0-7.0', 25.2-27.8', 30.3-32.0'.

33.5 96.8 Grey, siliceous argillite, well bedded, considerable contortion of some beds, numerous thin siltstone beds, occasional stringers white quartz, carbonate and barite in odd fracture, conglomerate 40.5-47.0' and from 52.0-52.4', slight pyrite, Lost core 47.6-48.6', 50.0-51.4', 57.9-58.8', 69.4-73.3', 73.7-75.0', 76.7-82.6', 89.4-93.3'. Core angles: 50° at 41', 58° at 49', 39° at 55', 35° at 64', 40° at 66.5', 56° at 73', 51° at 93.5'.

96.8 102.2 Fine grained siltstone, well bedded, minor argillite, slight pyrite, occasional stringers white quartz.

102.2 150.3 Grey, siliceous argillite, well bedded, numerous beds siltstone, some contorted, slight pyrite, 1 in scattered from 128.2-144.4', occasional quartz stringers, from 144.7-149.3', several from 149.2-150.0'. Core angles: 50° at 103', 40° at 114.5', 35° at 121.5', 70° at 129.5', 56° at 139.2', 60° at 149'.

Log Diamond Drill Hole Number U-31 Contd.

150.3 205.0 Black graphitic argillite, well bedded, contorted, mineralized galena and sphalerite from 150.3-204', fair galena and brown disseminated sphalerite in bedding from 150.3-151.8', odd speck galena from 151.8-153.7', fair to massive galena and sphalerite from 153.7-168', very slight mineralization from 168.0-172.1', fair galena and sphalerite from 172.1-177.2', very slight mineralization from ^{177.2-178.4} ~~178.4-181.4~~, ^{FAIR 178.4-181.4} slight galena and sphalerite ~~XXXX~~ 181.4-183.7', fair mineralization from 186.4-193.5', slight from 193.3-195.5', visible galena and sphalerite 195.5-204.0', slight to fair pyrite from 193.3-204' giving the black argillite a lighter appearance, odd speck chalcopyrite, barite in fractures, occasional quartz stringers, lost core 183.7-186.4', core angles: 38° at 164', 44° at 172.5',

205.0 216.0 Grey, siliceous argillite, well bedded, slight pyrite, fractures, numerous siltstone beds, occasional stringers white quartz. Lost core 205-210.0', 213.7-215.5', Core angles: 48° at 210.0'. End of Hole 216.0'.

Log Diamond Drill Hole

Hole Number: U-32

N80313.54
E50973.44

Dip: 0° Bearing: S66°12'W
Elevation: 4755.70 Depth: 175'

Date Started: November 19th, 1970. Finished: November 22nd, 1970.

Drilled By: Cameron McCutcheon Drilling Ltd.,

Logged By: I. Young

0.0 0.8 Grey siliceous argillite, well bedded, considerable contortion, numerous thin siltstone beds, quartz in fractures, very slight pyrite.

0.8 45.2 Fine grained siliceous siltstone, well bedded, occasional beds argillite, few stringers white quartz, very slight pyrite, Lost core 2.1-3.4', 4.4-5.0', Core angles: 43° at 8', 45° at 12.5'.

15.2 18.7 Grey, siliceous argillite, well bedded, numerous thin siltstone beds, occasional stringers white quartz, very slight pyrite, core fractures this section, core angle 25° at 16.5'.

18.7 20.0 Lost core.

20.0 99.6 Conglomerate, medium to coarse grained fragments chert, quartz and argillite, very slight pyrite, graphite in fractures, core broken from 82.3-99.6'. Lost core: 52.7-53.3', 54.4-55.0', 56.2-56.9', 82.8-84.1', 85.6-86.3', 87.3-88.0', 89.4-90.0'.

99.6 100.5 Grey siliceous argillite, well bedded, few thin siltstone beds, very slight pyrite, core angle 30° at 99.7'

Log Diamond Drill Hole Number U-32 Contd.

100.5 103.3 Conglomerate, coarse grained fragments, some graphite in fractures, slight pyrite.

103.3 104.6 Grey siliceous argillite, minor siltstone, slight contortion, slight pyrite.

104.6 107.2 Conglomerate, medium grained fragments chert, quartz and argillite, abundant siltstone, very slight pyrite.

107.2 121.7 Grey siliceous argillite, well bedded, some contortion, occasional beds siltstone, carbonate in fractures, very slight pyrite. Core angles: 23° at 109.6, 70° at 115.3', 66° at 120.0'.

121.7 136.9 Conglomerate, coarse grained fragments, very slight pyrite, occasional stringers white quartz.

136.9 175.0 Grey siliceous argillite, well bedded, considerable contortion, brown to yellow siltstone beds numerous increased from 144.3-147.7', occasional contorted fragments siltstone, occasional stringers white quartz, slight pyrite, Lost core: 137.4-138.0', 138.6-139.3', 140.0-140.7', 141.7-143.1', 147.8-148.4', 149.4-150.0', 150.7-151.4', 152.4-153.8', 154.4-155.0', 155.8-156.5', 157.6-158.9', 160.0-160.7', 165.6-166.3', 170.3-171.7'. Core angles: 24° at 145.0', 37° at 149.2', 2° at 157', 23° at 163', 30° at ~~168~~ 168', 41° at 173.5'.
End of Hole 175'.

Log Diamond Drill Hole:

Hole Number: U-33

N80321.07 Dip: 0° Bearing: N66°12'E
E50987.73 Elevation: 4755.70 Depth: 51'

Date Started: November 22nd, 1970, Finished: November 23rd, 1970.

Drilled By: Cameron McCutcheon Drilling Ltd.,

Logged By: I. Young.

0.0 19.2 Conglomerate, medium to coarse grained fragments chert, quartz and argillite, abundant siltstone 12.0-13.3', occasional bed argillite, slight pyrite.

19.2 26.2 Grey well bedded siliceous argillite, numerous siltstone beds, graphite in occasional fractures, occasional quartz stringers, slight pyrite, lost core 21.3-23.3'.

26.2 26.8 Lost core.

26.8 40.9 Conglomerate, coarse grained, subangular fragments, quartz, chert and argillite, slight pyrite, some leached, numerous stringers white quartz, Lost core 28-28.7', 29.4-30.7', 34.0-34.6', Core angles: 37° at 18.6', 75° at 25.5', 43° at 41'.

40.9 42.0 Grey siliceous argillite, well bedded, numerous siltstone beds.

42.0 44.5 Grey siliceous ~~siltstone~~ siltstone, occasional quartz stringers, very slight pyrite.

44.5 46.6 Conglomerate, minor argillite, occasional stringers white quartz, very slight pyrite.

46.6 48.6 Lost core.

48.6 51.0 Grey well bedded argillite, siliceous, minor siltstone slight contortion, very slight pyrite, core angles: 46° at 49.7'.

Tom Claims, Yukon

Hole Number U-34

Strike S 65° 54' 39W.

N 80056.95

Dip - 70° Depth: 206'

E 51186.73

Elev. 4752.04

Date started: Nov 23, 1970. Finished Nov. 26, 1970.

Drilled by: Cameron McCutcheon Drilling Ltd.

Logged By: I. Young

- 0.0-73.4 Grey-white conglomerate, sub angular fragments, chert, quartz and argillite, very slight pyrite, an odd speck of chalcopryrite, carbonates occur in odd fractures, few white quartz stringers, graphite and grey argillite in conglomerate from 66.2' to 67.8'.
Lost Core: 1.0' - 7.0', 10.0'-12.7', 20.0'-22.1', 34.4'-36.4', 54.0'-54.7', 57.8'-58.4'
- 73.4-85.9 Grey siliceous well bedded argillite, contorted, numerous siltstone beds, slight pyrite.
Core Angles; 78° at 75.5', 56° at 81', 50° at 84'
- 85.9'-99.7 Black graphitic argillite, numerous quartz stringers, odd bed siltstone, slight pyrite, beds are contorted, core is broken (fractured) from 85.9' to 99.7'
Lost Core: 86.8'-87.5'
Core Angle: 50° at 94'
- 99.7-153.8 Grey siliceous argillite, numerous siltstone beds, very slight pyrite, core is broken from 99.7' to 125' grey fine grained loose sand from

- 99.7-153.8 108.2' to 115' and from 116.4' to 117.7', core is well bedded (where rock is solid), odd stringer white quartz, white quartz from 142.4' to 142.6' and from 143.7' to 144.3', graphite occurs in some fractures.
Lost Core: 100.0'-102.0', 105.5'-107.6', 126.8'-128.1', 138.7'-142.0'
Core Angles: 48° at 103', 48° at 118.6', 67° at 123', 57° at 125.5', 60° at 134.5', 64° at 143', 72° at 146'.
- 153.8-178.1 Black graphitic argillite, well bedded, considerable contortion, slight pyrite, occasional quartz stringers, mineralized galena and brown-red disseminated sphalerite in bedding from 160.0' to 178.1'. Fair galena and sphalerite from 160.0 to 161.0', fair to massive galena and sphalerite from 162.4' to 167.4', and from 168.0' to 172.4', fair mineralization from 175.0' to 177.0', slight galena and sphalerite from 177.0' to 178.1'. Fair pyrite occurs in the mineralized section.
Lost Core: 155.0'-156.3', 157.9'-159.2', 161.0'-162.4', 167.4'-168.0', 172.4'-175.0'
Core Angles: 48° at 164.4', 42° at 172'.
- 178.1-206.0 Grey siliceous argillite, numerous siltstone beds and fragments, considerable contortion of beds, slight pyrite, graphite occurs in few fractures, odd thin stringer of white quartz. Conglomerate bed from 182.0' to 182.5'
Lost Core: 178.7' - 180.0', 185.0'-187.0', 193.7'-195.0', 196.0'-199.2', 201.3'-205.0'.
Core Angles: 37° at 195.0', 50° at 205.5'

End Hole.

Tom Claims, Yukon

Hole Number U-35

flat

N 77279

Strike: N 65° 12' E

E 51107.19

Elev: 4758.95

Depth: 56'

Date Started: Nov. 27, 1970. Finished: Nov. 28, 1970.

Drilled by: Cameron McCutcheon Drilling Ltd.

Logged by: I. Young

0.0-25.2 Black graphitic siliceous argillite, well bedded, considerable contortion, few thin quartz stringers, thin contorted siltstone beds, few bands black chert, slight pyrite. Slight Galena and sphalerite from 0' to 9.2', very slight mineralization from 9.2' to 10.6', slight galena and sphalerite from 10.6' to 12.2', odd speck galena from 12.2' to 18.9', pyrite and stringers of white quartz.

Core Angles: 9° at 1.0', 17° at 7', 60° at 21.5'

25.2-45.8' Grey siliceous well bedded argillite, conglomerate beds occur frequently from 27.0' to 29.3', numerous thin siltstone beds, slight pyrite, siltstone beds contain fair pyrite, numerous white quartz stringers, carbonates occur in few fractures.

Lost Core: 34.4'-35.0, 35.4'-36.1', 38.6'-40.0

41.1'-43.1'

Core Angles: 21° at 28.7', 39° at 33', 2° at 44.5'

45.8-56.0 Conglomerate, subangular, medium grained fragments, white quartz abundant from 47.4' to 48.2' and from 49.3' to 49.8', slight pyrite.

End Hole. Lost Core: 53.6'-55.0'

Tom Claims, Yukon

Hole Number U-36

Flat

N 77274.80

Strike S 45° 30' W

E 51091.64

Elev. 4759.63

Depth: 26'

Date Started: Nov. 28, 1970. Finished: 29, 1970.

Drilled By: Cameron McCutcheon Drilling Ltd.

Logged by: I. Young.

0.0-26.0 Black graphitic argillite, bedding present from 0.0 to 5.0', few quartz stringers from 0' to 5.0', few specks pyrite. Occasional graphite.

Lost Core: 24.4' - 25.0'

Core Angles: 25° at 1.2', 20° at 9.1', 15° at 19.5', 20° at 25.8'

End Hole.

Log Diamond Drill Hole.

Hole Number U-37

N77457.90 Dip: 0° Bearing: N64°07'E
E51046.78 Elevation: 4760.15 Depth: 40.0'.

Date Started: November 29th, 1970 Finished: November 29th, 1970

Drilled By: Cameron McCutcheon Drilling Co. Ltd.,

Logged By: I. Young

0.0 40.0 Grey siliceous argillite, well bedded, slightly
~~graphitic~~ contorted, thin siltstone beds, slight
galena and brown disseminated sphalerite from
5.7-8.1', very slight mineralization from 10.0-12.1',
occasional quartz stringers, slight graphite in
fractures, slight pyrite, Lost core: 1.4-2.7',
3.8-5.7', 8.1-10.0', 19.3-21.3', 38.0-38.7',
Core angles: 32° at 16', 54° at 21.5', 32° at 25',
20° at 30', 19° at 34.6', 32° at 38'.
End of Hole 40.0'.

Tom Claims, Yukon

Hole Number U-38 0° S. 63° 22' 54" W

N. 77440.62 Depth 47'
E. 51033.06 Elev. 4759.58

Date Started: Nov. 29, 1970. Finished: Nov. 30, 1970.

Drilled By: Cameron McCutcheon Drilling Ltd.

Logged By: I. Young.

0.0 - 13.0 Grey argillaceous limestone, sections baritic, sections
contorted, fair pyrite, mineralized fair galena and brown
disseminated sphalerite, odd stringer of white quartz.
Lost Core: 6.0-7.3, 8.1-12.0
13.0-41.7 Black graphitic argillite, well bedded numerous thin silt-
stone & limestone beds, slight pyrite, mineralized very
slight galena and sphalerite from 13' to 22.2', slight
galena and sphalerite from 23.5' to 40.3', few specks
galena from 40.3' to 41.7', few stringers of white quartz.
Lost Core: 16.2-17.5', 18.7-20.0', 22.2-23.5', 24.4-
25.7'.
Core Angles: 46° at 14.5', 42° at 23.8', 42° at 29.5',
42° at 34.5', 60° at 39.5', 58° at 43.0'
41.7-47.0 Black, massive graphitic argillite, odd stringer of white
quartz few specks of pyrite.

End Hole.

Tom Claims, Yukon.

Hole Number U-39 Dip - 60° - N 64° E

N. 77434.26

E. 50864.85 Elev. 4755.17 Depth: 253'

Date Started: Dec. 1, 1970. Finished: Dec. 3, 1970.

Drilled By: Cameron McCutcheon Drilling Ltd.

Logged By: I. Young

0.0 - 133.0 Black graphitic argillite, well bedded, odd stringer of white quartz, slight very fine grained pyrite, very slight galena and sphalerite occurs in bedding from 130.6' to 133.0'.

Lost Core: 5.7'-6.4', 7.0-8.4', 8.9'-9.6', 10.8'-11.5', 12.6'-14.5', 15.0'-15.7', 24.3'-25.0', 36.6'-37.3', 38.1'-38.8', 45.0'-46.4', 50.0'-52.0', 79.0'-81.4', 93.5'-94.2', 96.2'-97.5', 107.0'-107.7', 110.0'-112.2', 113.3'-117.1', 121.5'-130.6'

Core Angles: 52° at 12', 52° at 19', 53° at 29', 59° at 39', 58° at 53', 56° at 58.5', 61° at 72', 58° at 82.5', 59° at 92.5', 56° at 100', 50° at 109', 50° at 117.5', 44° at 131'.

133.0-153.4 Grey to white argillaceous limestone, well bedded, limestone occurs as thin bands in argillite, white numerous quartz stringers are, slight pyrite, slight galena and slight pale brown disseminated sphalerite occurs in bedding, few thin siltstone beds, carbonates occur in fractures.

pg. 2

153.4-177.8

Lost Core: 140.0'-140.7', 143.0-145.0, 148.6'-150.0'
Core Angles: 54° at 136', 50° at 146',
Grey baritic limestone, well bedded, considerable contortion, odd thin chert bed, slight to fair galena and pale brown disseminated sphalerite occurs in bedding. Core is fractured from 156.7' to 158.2'

Lost Core: 158.3'-177.0'

Core Angles: 60° at 154.5', 50° at 177.2'

177.8-182.0

Grey to white contorted argillaceous limestone, fair pyrite, mineralized slight to fair galena and slight pale brown disseminated sphalerite, graphite and carbonates occur in few fractures, odd thin stringer of white quartz.

Lost Core: 182.0'-183.4'.

182.0-183.4

Lost Core.

183.4-221.3

Grey siliceous argillite, siltstone beds are numerous, well bedded, some beds considerably contorted, slight to fair pyrite, stringers of white quartz abundant, carbonates and graphite occur in few fractures, mineralized very slight fine grained galena and brown-red disseminated sphalerite. Massive galena from 216.0' to 216.3', odd speck of chalcopryrite in argillite, graphite from 220.5 to 221.3

Lost Core: 185.8'-188.4', 204.0-205.0, 206.4-208.4,
218.0'-220.0'

Core Angles: 27° at 186', 43° at 192', 57° at 202.6',
63° at 215'

221.3-231.2 Conglomerate, medium grained sub angular fragments
chert, quartz and argillite, occ. thin white quartz,
few specks of fine grained pyrite.

231.2-253.0 Grey siliceous argillite, well bedded, contorted,
thin siltstone beds, very slight pyrite few thin
stringers of white quartz.

Lost Core: 234.4'-237.0', 250.0'-250.6',

Core Angles: 55° at 233', 58° at 242.5', 22° at
252.0'

End of Hole.

Tom Claims, Yukon.

Hole Number U-40 Dip -90°

N. 77428.75 Depth 325'

E. 50857.75 Elev. 4755.17

Date started: Dec. 4, 1970. Finished: Dec. 9, 1970.

Drilled By: Cameron McCutcheon Drilling Ltd.

Logged By: I. Young.

0.0-200.4 Black graphitic argillite, well bedded, few thin silt-
stone beds, slight pyrite occurs in siltstone, carbonates
fill fractures, occasional stringers of white quartz, core
is broken from 0.0 to 100.0'

Lost Core: 1.1'-5.0', 58.2'-58.9', 70.4'-72.4', 188.7'-
192.7', 195.7'-197.0'.

Core Angles: 18° at 10', 25° at 19', 24° at 29', 30° at
39', 27° at 48', 26° at 59', 25° at 74', 30° at 80.5',
31° at 89', 42° at 102', 40° at 116', 38° at 125', 38°
at 134', 41° at 149', 42° at 159', 42° at 167.5', 38°
at 174', 39° at 182', 44° at 193', 55° at 198.5'

200.4-232.9 Grey argillaceous limestone, well bedded, limestone
occurs as thin white bands in argillite, slight contor-
tion, carbonates occur in fractures, very slight pyrite,
mineralized slight galena and red-brown disseminated
sphalerite in bedding, few white quartz stringers.

200.4-232.9 Lost Core: 207.3'-210.0', 214.0'-214.7', 222.5'-223.9',
225.0'-227.0, 228.3'-230.7'

Core Angles: 47° at 206.5', 32° at 215.3', 48° at 224',
36° at 232'.

232.9-235.7 Lost Core.

235.7-273.2 Gray baritic limestone, well bedded, considerable
contortion of beds, thin chert beds occur in lime-
stone, mineralized slight galena and pale brown dis-
seminated sphalerite in bedding from 235.7' to 237.6',
slight to fair galena and sphalerite from 260.0' to
262.9', fair mineralization from 264.3', to 265.4' and
from 269.3' to 273.2'.

Lost Core: 237.6'-260.0', 262.3'-264.3', 265.4'-269.3'.

Core Angle: 59° at 262'

273.2-275.6 Lost Core.

275.6-305.9 Gray argillaceous limestone, well bedded, considerable
contortion, slight to fair pyrite, mineralized slight
galena and brown disseminated sphalerite, odd speck
of chalcopryite, few stringers of white quartz, slight
chlorite alteration occurs in few fractures along with
graphite.

Lost Core: 299.4'-300.0'

Core Angles: 37° at 281', 48° at 293',

305.9-312.1 Black graphitic argillite, well bedded, slight con-
tortion of beds, few ~~xxxx~~ carbonate and quartz stringers,
few specks galena and sphalerite from 305.9' to 306.7',
from 308.1' to 310', slight mineralization from 310' to
312.1'

Lost Core: 306.7' - 308.1'

312.1-314.1 Lost Core.

314.1 - 325.0 Dark grey siliceous argillite, well bedded, slight
pyrite, numerous thin siltstone beds, few quartz
stringers, chlorite and graphite occur in few fractures.

Lost Core: 316.5'-317.8'

Core Angles: 29° at 318.5', 55° at 323'.

End of Hole.

Tom Claims Yukon

Hole Number U-41 0° N 62° 06' E
N. 77248.52 Depth: 13.0'
E. 51143.09 Elev. 4759.74

Date started: Dec. 10, 1970. Finished: Dec. 10, 1970.

Drilled By: Cameron McCutcheon Drilling Ltd.

Logged By: I. Young

0.0-0.7 Black graphitic argillite, few stringers of white quartz,
slight pyrite, core is broken

0.7-2.4 Lost Core.

2.4-13.0 Conglomerate, medium grained sub-angular fragments,
chert, quartz and argillite, white quartz vein from
7.2' to 8.6', bed of black graphitic argillite from
11.7' to 12.5', slight pyrite, graphite occurs in a
few fractures

Core Angles: 26° at 12'.

End of hole

Tom Claims, Yukon

Hole Number U-42 Dip 0° Bearing S 16° 40' E.

N. 77240.98 Depth: 53'

E. 51135.09 Elev. 4759.84

Date Started: Dec. 10, 1970. Finished: Dec. 11, 1970.

Drilled By: Cameron McCutcheon Drilling Ltd.

Logged By: I. Young.

0.0-2.0 Lost Core.

2.0-53.0 Black graphitic argillite, siltstone beds are numerous
from 2.0 to 25.3' carbonates fill fractures, argillite
is well bedded contorted. Slight pyrite, occasional
stringer of white quartz.

Lost Core: 26.3'-29.6', 40.5'-41.2', 43.1'-46.5',
47.3'-48.7', 51.2'-52.5'.

Core Angles: 61° at 5.4', 28° at 10.7', 53° at 25',
60° at 53'.

End of Hole

Tom Clains, Yukon

Hole Number U-43 Dip 0° Bearing N. 69° 40' E.

N. 77830.72 Depth 27'

E. 50910.06 Elev. 4757.19

Date started: Dec. 11, 1970. Finished: Dec. 11, 1970.

Drilled By: Cameron McCutcheon Drilling Ltd.

Logged By: I. Young

0.0-8.0 Grey baritic limestone, few thin chert beds, considerable contortion, very slight pyrite, mineralized slight fine grained galena and pale brown disseminated sphalerite in bedding, occasional white quartz stringer

8.0-10.0 Grey siliceous argillite, slight pyrite mineralized slight galena and sphalerite, numerous stringers of white quartz, carbonates occur in fractures.

10.0-11.3 Grey baritic limestone, well bedded considerable contortion, few thin chert bands, slight galena and brown disseminated sphalerite occurs in bedding
Core Angles: 67° at 4.4', 77° at 10.2'

11.3-27.0 Black graphitic argillite, well bedded, core is broken odd thin siltstone bed, slight pyrite, few white quartz stringers

Lost Core: 13.5'-17.0', 18.9'-21.3', 22.9'-25.0'.

Core Angles: 69° at 21.5', 65° at 27'

End of Hole

Tom Clains, Yukon

Hole Number U-44 Dip 0° Bearing N. 61° 45' E.

N. 78029.45 Depth 30'

E. 50884.58 Elev. 4755.01

Date Started: Dec. 12, 1970. Finished: Dec. 12, 1970.

Drilled By: Cameron McCutcheon Drilling Ltd.

Logged By: I. Young.

0.0-11.8 Grey baritic limestone, well bedded, few thin chert beds, considerable contortion of beds, very slight pyrite, mineralized slight galena and pale brown disseminated sphalerite in bedding, carbonates and barite crystals occur in fractures, occasional quartz stringers.

Lost Core: 0.0'-0.7', 2.9'-4.2', 6.1'-8.1', 9.6'-10.6'

Core Angles: 31° at 1.0', 54° at 11.0'

11.8-18.3 Lost Core

18.3-30.0 Black graphitic argillite, rather massive, slight pyrite, some leaching of pyrite crystals, slight galena and sphalerite in argillite from 18.3' to 20.3', few ~~white~~ white quartz stringers, carbonates occur in fractures.

Lost Core: 21.1'-22.5', 26.7'-28.7'

Core Angles: 73° at 18.7', 60° at 26'

End Of Hole

Tom Claims, Yukon.

Hole Number U-45 Dip 0° Bearing N. 61° 55' E.

N. 78223.50 Depth: 37'

S. 50780.63 Elev. 4754.28

Date started: Dec. 12, 1970. Finished: Dec. 13, 1970.

Drilled By: Cameron McCutcheon Drilling Ltd.

Logged By: I. Young

0.0-27.0 Gray baritic limestone, well bedded considerable contortion, chert beds occur in limestone, very slight pyrite, mineralized slight galena and slight brown-pink disseminated sphalerite in bedding. Mud seam occurs from 15' to 25', no core recovered in this zone, chert very abundant from 25' to 25.7' occasional quartz stringer.

Lost Core: 3.1'-5.7', 7.0-8.3', 15.0'-25.0'

Core Angles: 55° at 5', 68° at 6', 30° at 11', 75° at

14', 69° at 26'

27.0-28.4 Gray argillaceous limestone, well bedded, considerable contortion slight pyrite, mineralized slight galena and slight disseminated sphalerite.

28.4-37.0 Black graphitic argillite, very siliceous, well bedded, few siltstone beds, slight pyrite, few white quartz stringers, carbonates occur in few fractures.

Lost Core: 34.2'-35.7'

End Hole. Core Angles: 61° at 31', 65° at 34'

Log Diamond Drill Hole

Hole Number: U-46

N77430.43 Dip: -83° S64°W Bearing
E50858.06 Elevation: 4754.00 Depth: 452'

Date Started: Dec. 13thm 1970. Finished: Dec. 23rd, 1970

Drilled By: Cameron McCutcheon Drilling Ltd.,

Logged By: I. Young

0.0 273.7 Black graphitic argillite, well bedded, very siliceous, occasional siltstone beds, carbonate and graphite in fractures, slight pyrite, solid 117.4-117.7', mineralized very slight galena from 272.2-273.7' fair pyrite in this section, occasional quartz stringers, core broken from 59-75' and from 105-124'. Lost core: 5.3-7.3', 109.0-109.7', 111.5-112.2', 115.0-116.3', 127.6-130.0', 134.4-135.0', 263.0-267.0', 268.7-272.7', core angles: 9° at 8', 17° at 21', 16° at 34', 19° at 50', 23° at 68', 18° at 83', 20° at 92', 18° at 108', 26° at 124.5', 30° at 131.5', 31° at 139', 32° at 150', 32° at 160.0', 37° at 174.5', 26° at 183.5', 28° at 196.5', 32° at 220', 22° at 230', 27° at 239', 28° at 247', 35° at 257', 52° at 273.5'.

273.5 275.0 Lost core.

275.0 194.4 Grey well bedded argillaceous limestone, slight pyrite, mineralized slight galena and sphalerite from 275.0-276.1', very slight mineralization 280.7-282.4', and from 293.3-294.4', core broken, carbonate in fractures, Lost core: 276.1-280.7', 282.4-293.3'.

Log Diamond Drill Hole U-46 Contd.

- 294.4 296.3 Lost core.
- 296.3 330.8 Grey, baritic limestone, well bedded, numerous chert beds, considerable contortion, very slight pyrite, slight galena and pale brown sphalerite in bedding from 296.3-297.6', ~~xxxxx~~ 300.0-301.1, 305-306.8', fair mineralization 310-312.6 and 315-317.4', slight galena and fair sphalerite 321.4-322.5'; fair mineralization 325-327.1', 330-330.8', core broken, Lost core: 297.6-300.0, 301.1-305', 306.8-310.0', 312.6-315', 317.4-321.4', 322.5-325', 327.1-330', Core angles: 53° at 300', 57° at 311', 52° at 316', 326' 25°.
- 330.8 376.4 No core recovered, mud and sand.
- 376.4 377.0 Grey well bedded baritic limestone, few chert beds, considerable contortion, mineralized slight galena and pink disseminated sphalerite, very slight pyrite.
- 377.0 378.4 Lost core.
- 378.4 419.1 Grey altered argillaceous limestone, considerable contortion, numerous quartz stringers, graphite and carbonate in fractures, slight pyrite, fair galena and brown disseminated sphalerite from 378.4-379.8', slight mineralization from 379.8-383.2', fair pyrite 379.8-381.9', quartz 381.9-382.7', fair galena and sphalerite 383.2-384.7', slight

- mineralization 384.7-388.2', fair pyrite in above, fair galena and sphalerite 388.2-391.2', slight mineralization 391.2-399.4', 400-402.9' and 404.3-419.1'. Lost core: 396.8-397.5', 399.4-400.0', 402.9-404.3', Core angles: 41° at 407', 42° at 418'.
- 419.1 439.4 Dark grey argillite, rather massive, . occasional quartz stringers and limestone beds, slight pyrite, very slight galena and sphalerite 419.1-435.7', few specks galena and sphalerite 436.4-439.4', graphite in fractures, Lost core: 435.7-436.4', 439.4-440.0', Core angles: 52° at 422', 54° at 427'.
- 439.4-440.0 Lost core.
- 440.0 452.0 Conglomerate, coarse fragments, subangular, quartz, chert and argillite, very slight pyrite, occasional quartz stringers, graphite in fractures. Lost core: 442.8-443.5', 448.8-450.0'. End of Hole 452'.

Log Diamond Drill Hole.

Hole Number: U-47 Dip: -60° Bearing N64°E
 N77218.36
 E507-0.0257 Elevation: 4755.37

Date Started: December 14th, 1970, Finished: Dec. 20th, 1970.

Drilled By: Cameron McCutcheon Drilling Ltd.,

Logged By: I. Young.

0.0 3.3 Casing

3.3 346.0 Black graphitic argillite, very siliceous, well bedded, occasional siltstone beds, numerous quartz stringers, carbonate in fractures, along with graphite, slight pyrite, some contortion, core broken from 51-150', very slight galena and sphalerite from 344.6-346.0', Lost core: 36.8-40.7', 42.4-43.7', 68.6-69.2', 70.7-73.4', 75.2-75.9', 76.6-77.3', 77.7-78.4', 79.4-80.0', 80.5-81.8', 84.2-85.0', 86.8-88.1', 88.8-91.3', 92.4-94.4', 96.3-97.0', 98.0-99.4', 101.0-102.3', 111.2-112.5', 114.4-118.3', 123.0-124.4', 125.0-127.6', 131.2-131.9', 132.4-133.1', 133.6-134.3', 136.3-136.9', 138.0-138.7', 141.5-142.1', 143.1'-143.8', 144.4-145.0', 145.6-146.3', 147.3-148.0', 148.4-149.1', 228.7-230.0', 231.9-232.6', 270.0-270.6', 274.4-275.0', 281.0-282.3', 283.5-284.2', 286.6-287.3', 288.5-289.1', 290.9-291.6', 292.6-297.5', 302.3-303.6', 305.0-307.0', 326.0-329.1', 330.0-332.0', 332.8-334.7', 335.8-339.1', 340.6-344.6'.

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Log Diamond Drill Hole U-47, Contd.

Core angles: 31° at 6.1', 30° at 17', 59° at 25.5', 57° at 32.5', 26° at 42', 50° at 69.5', 65° at 94.5', 52° at 109', 58° at 136', 68° at 150.6', 67° at 165', 71° at 176.5', 69° at 187', 60° at 191', 63° at 199', 63° at 205.5', 68° at 215', 70° at 224.5', 64° at 231', 69° at 268', 58° at 279.5', 55° at 295', 59° at 314', 58° at 318'

346.0 352.0' Lost Core.

352.0 373.1 Grey argillaceous limestone, well bedded, considerable contortion, very slight galena and disseminated sphalerite, carbonates and graphite in fractures, very slight pyrite, occasional quartz stringers, lost core: 354.4-357.0', 358.8-360.0', 360.5-362.4', 363.1-366.3', 367.1-372.6', Core angle: 60° at 354'.

373.1 377.7 Lost core.

377.7 401.1 Grey baritic limestone, well bedded, considerable contortion, mineralized slight galena and brown disseminated sphalerite in bedding, slight pyrite, occasional stringers white quartz, core broken. Lost core: 378.8-381.3', 382.3-383.9', 384.4-385.0', 386.1-387.5', 392.5-394.4', 395.5-399.1', Core angle: 40° at 386'.

401.1 402.4 Lost core.

402.4 425.0 Conglomerate, medium to coarse grained sub-angular fragments of chert quartz and argillite.

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occasional siltstone beds, contorted black
argillite beds, slight pyrite, graphite in
fractures, occasional white quartz stringers
1 to 2". Lost core: 403.0-405.0', 416.8-417.5',
420.8-422.1'.

End Of Hole 425.0'.

Log Diamond Drill Hole.

Hole Number: U-48

N77212.36 Dip: -80° Bearing: N65°E
E50790.02 Elevation: 4055.37

Date Started: Dec. 20th, 1970. Finished: Dec. 24th, 1970.

Drilled By: Cameron McCutcheon Drilling Ltd.,

Logged By: I. Young.

0.0 5.0 Casing

5.0 235.0 Black graphitic argillite, siliceous, well bedded,
slight contortion, occasional quartz stringers,
slight pyrite in fractures, massive pyrite
195.7-196.0', graphite in fractures, core broken
from 5.0-175'; pyrite 117.5-117.7', ~~xxx~~
graphitic mud and sand 168.5-171.1'. Lost core:
17.5-19.5', 20.0-21.3', 22.1-24.1', 26.0-26.7',
35.7-36.4', 40.8-42.7', 46.0-47.3', 48.1-52.0',
65.0-65.6', 65.0-75.7', 76.4-77.0', 78.0-79.3',
82.0-82.6', 85.0-85.7', 87.1-89.1', 90.8-91.5',
92.3-93.6', 94.4-95.6', 96.2-96.9', 97.9-99.2',
112.8-113.4', 114.0-114.6', 117.7-118.4', 121.0-
123.0', 124.4-125.7', 126.6-127.3', 130.8-131.4',
134.4-135.6', 136.1-136.7', 141.7-143.1', 146.4-
147.0', 150.2-150.8', 153.8-154.4', 158.0-158.6',
160.0-160.7', 161.3-161.9', 162.6-163.2', 169.3-
170.0', 171.6-172.2', 173.0-173.7', 175.3-176.0',
176.5-177.2', 184.4-185.0', 187.1-187.7', 225.3-
227.00, 227.5-228.2', 228.7-229.4', 230.0-232.0',
232.9-234.2'. Core angles: 35° at 10', 47° at 17'.

Log Diamond Drill Hole U-48, Contd.

34° at 29.5', 36° at 39.5', 36° at 45', 33° at 53.5', 29° at 63.5', 24° at 71.5', 28° at 82.8', 24° at 109', 18° at 123.5', 39° at 130', 43° at 145', 40° at 155.5', 50° at 166.5', 37° at 179', 38° at 191.7', 41° at 199.5', 39° at 209', 42° at 218.5', 40° at 223.5', 51° at 234.5'.

Hole abandoned at 235 due to sand and graphitic mud.

Log Diamond Drill Hole.

Hole Number: U-49

N78293.30 Dip: 0° Bearing S62°03'W
E50726.23 Elevation: 4754.77 Depth: 86'

Date Started: Dec. 23rd, 1970. Finished: Dec. 24th, 1970.

Drilled By: Cameron McCutcheon Drilling Ltd.,

Logged By: I. Young.

0.0	72.0	Grey well bedded baritic limestone, considerable contortion, scattered chert beds, very slight pyrite, slight galena and brown disseminated sphalerite in bedding, occasional white quartz stringers, barite in fractures, increased chert 30.0-50.0', Core angles: 60° at 1', 61° at 10', 47° at 19.5', 44° at 24.5', 67° at 31', 61° at 41', 83° 50'77° at 60', 82° at 70'.
72.0	82.1	Grey argillaceous limestone, well bedded, limestone interbedded with argillite, considerable contortion, numerous chert beds, very slight pyrite, slight fine grained galena and very slight sphalerite in bedding from 72.0-75.4', few specks galena from 78.7-82.1', Lost core 75.4-78.7', core angles: 79° at 75', 87° at 80'.
82.1	86.0	Black graphitic argillite, rather massive, occasional quartz stringers, carbonate in fractures, End of Hole 86.0'.

Log Diamond Drill Hole:

Hole Number U-50.

N78488.46 Dip: 0° Bearing: N64°56'E
E50651.20 Elevation: 4753.36 Depth: 19.0'.

Date Started: Dec. 24th, 1970. Finished: Dec. 24th, 1970.

Drilled By: Cameron McCutcheon Drilling Ltd.,

Logged By: I. Young.

0.0 1.8 Black and white well bedded argillaceous
limestone, limestone occurs as thin beds in
graphitic argillite, some contortion, slight
pyrite, mineralized slight galena and sphalerite
from 0.0-1.8' occasional quartz stringers, core
angle: 52° at 1'.
1.8 5.0 Lost core.
5.0 19.0 Black graphitic argillite, well bedded, slight
pyrite, few specks galena from 5.0-10.0',
numerous stringers white quartz, carbonates in
fractures, Lost core: 12.5-15.0'. Core angles:
52° at 8', 62° at 16.5'.
End of Hole 19.0'.

Log Diamond Drill Hole

Hole Number: U-51.

N78481.95 Dip: 0° Bearing: S64° 09'W
E50633.52 Elevation: 4753.13 Depth: 176'.

Date Started: Dec. 24th, 1970. Finished: Dec. 26th, 1970.

Drilled By: Cameron McCutcheon Drilling Ltd.,

Logged By: I. Young.

0.0 82.3 Grey, baritic limestone, numerous chert beds,
well bedded, considerable contortion, very
slight pyrite, mineralized slight galena, and
disseminated red-brown sphalerite in bedding,
chert and sandstone more abundant from 50.0-
82.3', occasional quartz stringers, carbonate
and barite crystals in fractures. Lost core:
5.0-6.3', 9.4-10.0', 16.7-18.0', 19.0-19.6',
22.3-23.0', 27.1-28.4', 29.4-32.0', 33.4-34.0',
35.4-39.4', 43.8-48.3', 51.4-55.0', 59.4-62.0',
64.4-65.7', 66.6-67.9', 69.1-73.9', 77.7-78.3'.
Core angles: 56° at 5', 48° at 14', 48° at 24.5',
57° at 35', 66° at 43.5', 74° at 49', 61° at 59',
34° at 78.5'.
82.3 83.6 Lost core.
83.6 152.5 Dark grey argillaceous limestone, severe
contortion, slight pyrite, mineralized slight to
very slight disseminated sphalerite and galena
in bedding, few white quartz stringers, carbonate
and slight graphite in fractures, increased
limestone from 137-140.5', Lost core: 84.4-87.9',
90.0-92.0', 96.4-97.1', 99.0-99.6', 102.4-105'

Log Diamond Drill Hole U-51, Contd.

Core angles: 50° at 93', 46° at 98.5', 75° at 110', 49° at 120.0', 83° at 125', 62° at 134', 48° at 140', 71° at 150'.

152.5 176.0 Black graphitic argillite, well bedded from 152.5-160.0', occasional limestone beds in above section with visible galena and sphalerite, argillite is massive from 160.0-176', white quartz stringers, slight pyrite, carbonate in fractures, Core angles: 61° at 159.5', 75° at 174.5'.

End of Hole 176'

Log Diamond Drill Hole.

Hole Number: U-52

N77019.54 Dip: -50° Bearing: N65°E
E50792.53 Elevation: 4755.36 Depth:

Date Started: December 26th, 1970, Finished: Jan. 11th, 1971.

Drilled By: Cameron McCutcheon Drilling Ltd..

Logged By: I. Young.

0.0 4.6 Casing.

4.6 314.0 Black, well bedded graphitic argillite, siliceous, very slight pyrite, stringers white quartz, graphite and carbonate in fractures, occasional contorted beds siltstone, core broken from 50-250'. Lost core: 80.-8.6', 16.0-16.7', 17.4-18.1', 18.8-20.0', 21.0-22.3', 25.0-26.3', 27.2-27.9', 28.5-29.1', 30.0-30.7', 50.0-50.7', 51.9-52.6', 56.0-57.3', 59.4-61.3', 63.0-63.6', 64.4-65.0', 66.1-67.4', 68.1-70.0', 73.2-73.8', 75.9-76.6', 78.2-79.6', 80.0-80.7', 81.7-82.4', 83.1-83.7', 84.4-85.0', 85.8-87.1', 88.8-89.5', 90.0-93.3', 97.6-98.2', 100.5-103.8', 104.4-105.0', 105.8-107.8', 108.1-110.0', 110.6-111.9', 112.6-113.2', 113.8-117.6', 118.0-120.7', 122.0-122.7', 127.2-127.9', 129.4-130.7', 131.8-132.4', 133.3-134.6', 135.2-136.5', 137.0-137.7', 138.2-139.5', 140.1-140.8', 141.8-143.2', 143.7-145.0', 146.2-148.2', 148.8-150.6', 151.9-157.0', 157.6-158.4', 159.2-161.0', 161.6-163.0', 163.6-165.9', 166.3-167.6', 168.6-169.3', 170.3-174.4', 175.3-177.9'.

Log Diamond Drill Hole U-52, Contd.

178.2-180.7', 181.2-183.9', 184.4-185.7', 186.1-188.1, 188.7-193.3', 194.4-197.7', 198.7-200.0', 201.1-202.4', 202.9-204.6', 205.0-205.6', 206.7-207.3', 207.9-209.0', 210.9-211.6', 216.3-217.6', 219.0-219.6', 222.7-224.5', 225.7-229.0', 229.4-232.0', 232.5-233.1', 233.7-235.0', 235.7-236.4', 243.7-245.0', 246.5-247.2', 248.8-248.8', 249.4-250.0', 257.2-257.9', 258.7-260.0', 260.8-261.4', 265.0-266.3', 268.0-268.7', 273.3-274.5', 281.1-281.8', 283.2-283.9', 295.8-296.4'.

Core angles: 41° at 10', 43° at 21', 53° at 31.5', 59° at 48', 50° at 73', 49° at 84', 52° at 99', 63° at 104', 68° at 124.4', 65° at 133', 46° at 141.5', 52° at 225', 81° at 235', 67° at 242', 52° at 246.5', 66° at 255', 61° at 267', 64° at 276.5', 43° at 289', 70° at 295', 75° at 307.5', 82° at 314'.

Hole abandoned at 314 feet due to sand and graphitic mud caving from higher up the hole.
Mud at 155'

Log Diamond Drill Hole.

Hole Number: U-53

N78654.34
E50519.68

Dip: 0°
Elevation: 4752.52

Bearing: S65°09'W
Depth: 81'.

Date Started: Dec. 26th, 1970, Finished: Dec. 27th, 1970.

Drilled By: Cameron McCutcheon Drilling Ltd.,

Logged By: I. Young.

0.0 53.5 Grey well bedded baritic limestone, numerous grey argillite and chert beds, considerable contortion, slight pyrite, slight galena and light pink sphalerite in bedding, occasional quartz stringers, barite crystals and carbonate in fractures, grey argillite with no mineralization from 40.0-40.9', core angles: 50° at 5', 57° at 14.5', 64° at 25', 72° at 30', 64° at 35', 66° at 44.5', 62° at 49'.

53.5 69.7 Black and white argillaceous limestone, well bedded, considerable contortion, limestone in narrow beds in graphitic argillite, slight pyrite, mineralized very slight galena and disseminated sphalerite from 53.5-65.0', few specks galena and sphalerite from 65.0-69.7', numerous quartz stringers, graphite and carbonate in fractures, lost core: 56.4-57.1', Core angles: 71° at 55', 66° at 60', 62° at 69'.

69.7 81.0 Black graphitic argillite, fairly massive, occasional quartz stringers, graphite in fractures, very slight pyrite.

Log Diamond Drill Hole U-53, Contd.

Lost core 76.8-80.0, 74.0-75.0'.

Core angles: 65° at 72.5'.

End of Hole 81.0'.

Log Diamond Drill Hole

Hole Number: U-54

N78664.10 Dip: 0° Bearing: N66°26'W
E50527.93 Elevation: 4753.42 Depth: 60'

Date Started: Dec. 27th, 1970. Finished: Dec. 27th, 1970

Drilled By: Cameron McCutcheon Drilling Ltd.,

Logged By: I. Young.

0.0 36.2 Grey well bedded baritic limestone, considerable contortion, few specks of pyrite, slight galena and pale brown disseminated sphalerite in bedding, occasional voids, odd stringer white quartz, carbonate in fractures, Lost core: 28.7-30.0'. Core angles: 63° at 2', 42° at 10.5', 79° at 19', 58° at ~~XXX~~ 25', 74° at 28.5', 70° at 35'.

36.2 49.4 Grey argillaceous limestone, well bedded, considerable contortion, numerous quartz stringers, slight pyrite, mineralized very slight galena and brown disseminated sphalerite from 36.2-39.3' and 40.0-41.7', slight mineralization from 43.0-46.3', very slight galena and sphalerite from 46.3-49.4', carbonates in fractures, Lost core: 39.4-40.0', 41.7-43.0'. Core angles: 67° at 43.5', 51° at 48.5'.

49.4 60.0 Black graphitic argillite, very siliceous, well bedded, slight pyrite, numerous quartz stringers, occasional siltstone beds, with fair pyrite, Core angles: 54° at 54', 52° at 60'. Lost core: 58.1-59.4'.
End of Hole 60'.

Log Diamond Drill Hole

Hole Number: U-55

N78823.98 Dip: 0° Bearing: N64°09'E
E50424.43 Elevation: 4754.65 Depth: 66'

Date Started: Dec. 28th, 1970, Finished: Dec. 28th, 1970.

Drilled By: Cameron McCutcheon Drilling Ltd.,

Logged By: I. Young

- 0.0 2.7 Grey argillaceous limestone, well bedded,
numerous quartz stringers, very slight pyrite,
mineralized very slight disseminated galena and
sphalerite, Core angle: 69° at 1.0'.
- 2.7 47.4 Grey well bedded baritic limestone, numerous
grey chert beds, slight pale brown disseminated
sphalerite and galena in bedding, occasional quartz
stringers, very slight pyrite, barite and carbonate
in fractures, lost core 22.7-24.0', 36.5-42.0',
43.0-47.0', Core angles: 63° at 10', 66° at 20',
61° at 25', 77° at 30', 66° at 43'.
- 47.4 53.4 Grey argillaceous limestone, well bedded,
mineralized slight disseminated galena and
sphalerite, numerous quartz stringers, very
slight pyrite, , graphite in fractures, lost core:
48.0-50.0', 51.0-52.3',.
- 53.4 66.0 Black well bedded graphitic argillite, slight
pyrite, occasional siltstone beds, numerous quartz
stringers, mineralized slight galena and
sphalerite from 53.4-55.8', some graphite in
fractures.

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Log Diamond Drill Hole U-55, Contd.

Lost core: 57.5-58.2', 63.3-65.0', Core angles:

61° at 54', 47° at 57.5', 53° at 62'.

End of Hole 66'

Log Diamond Drill Hole.

Hole Number: U-56

N78815.92 Dip: 0° Bearing: S66°47'W
E50410.95 Elevation: 4751.84 Depth: 14'

Date Started: Dec. 28th, 1970, Finished: Dec. 29th, 1970.

Drilled By: Cameron McCutcheon Drilling Ltd.,

Logged By: I. Young.

0.0 14.0 Black siliceous argillite, well bedded, very slight pyrite, odd speck galena and sphalerite from 0.0-1.8', occasional quartz stringers, graphite in fractures, lost core: 5.5-6.4', Core angles: 81° at 1', 71° at 7.5', 81° at 11.5'.

End of Hole 14.0'

Log Diamond Drill Hole.

Hole Number: U-57

N77630.07 Dip: 0° Bearing: N65°38'E
E51234.88 Elev: 4758.80 Depth: 62'
50910.19

Date Started: Dec. 19th, 1970 Finished: Dec 29th, 1970.

Drilled By: Cameron McCutcheon Drilling Ltd.,

Logged By: I. Young.

0.0 39.8 Grey, well bedded baritic limestone, occasional chert beds, considerable contortion, slight pyrite, slight galena and brown disseminated sphalerite in bedding, fair mineralization from 13.3-17.4', ~~XXXXXX~~ 18.7-19.4', fair galena from 25.0-25.9', calcite and barite in fractures, Lost core: 1.2-2.5', 3.8-5.0', 11.2-11.8', 12.7-13.3', 17.4-18.7', 19.4-22.6', 23.7-25.0', 25.9-28.5', 29.4-39.0'. Core angles: 69° at 5', 69° at 10', 77° at 15', 60° at 17', 54° at 25.5'.

39.8 43.2 Argillaceous limestone, well bedded, slight pyrite, very slight fine galena and brown to red disseminated sphalerite in bedding, occasional stringers white quartz, core angle: 71° at 42'.

43.2 62.0 Black rather massive, graphitic argillite, slight pyrite, ~~XXXXXX~~ very slight brown sphalerite in bedding, visible galena in small cavities from 43.2-47.9' and 48.6-50.2', graphite in fractures. Lost core: 47.9-48.6', 52.8-55.7', 56.3-57.0'. Core angles: 60° at 49', 63° at 52'.
End of Hole 62'

Log Diamond Drill Hole.

Hole Number: U-58

N80328.53 Dip: -40° Bearing: S69°08'W
E51245.88 Elevation: 4753.75 Depth: 533'

Date Started: Dec. 29th, 1970, Finished: Jan. 12th, 1971.

Drilled By: Cameron McCutcheon Drilling Ltd..

Logged By: I. Young.

0.0 353.1 Conglomerate, medium to coarse subangular fragments of chert, quartz and argillite, minor beds graphitic argillite 6.3-8.1', 11.7-12.5' and 22.0-23.7', graphite and carbonate in fractures from 0.0-50.0', occasional stringers white quartz, argillite from 37.8-39.2', and 41.7-44.4', minor siltstone in the above argillite, , odd speck chalcoppyrite, very slight pyrite, some leached, core broken 250-300', numerous small vugs 327.3-331.7', and 349.3-353.1', visible sphalerite in fracture at 130.8', Lost core: 1.0-~~3.1~~^{2.3}2.3', 3.1-5.0', 6.8-7.5', 11.0-11.7', 12.5-13.1', 16.3-17.6', 20.0-21.4', 23.7-25.0', 138.6-142.7', 152.3-153.6', 154.4-155.0', 156.1-157.4', 201.4-202.7', 207.0-207.7', 211.7-21~~3.2~~^{2.3}2.3', 213.0-213.7', 217.6-218.9', 220.0-222.6', 225.6-227.6', 228.7-230.0', 232.3-232.9', 233.7-235.0', 238.8-242.4', 251.7-253.7', 264.4-265.00, 266.8-268.1', 272.5-274.5', 276.3-277.6', 278.1-282.7', 283.1-289.0', 289.4-292.7', 293.6-294.3', 295.0-295.7', 296.2-297.5', 298.3-298.9', 299.5-300.7', 302.9-303.5', 305.6-306.3', 314.2-320.0', 321.3-322.6', 331.7-332.4'

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Log Diamond Drill Hole U-58, Contd.

342.6-343.9', 345.5-347.1', 348.0-349.3', 350.7-352.0',

Core angles: 47° at 38', 41° at 44'.

353.1-355.7' Lost core.

355.7 533.0 Grey siliceous argillite, well bedded, numerous siltstone beds, slight contortion, slight pyrite in siltstone, occasional stringers white quartz, siltstone 412.6-416.5' with numerous quartz stringers, conglomerate 368.7-370.0', 372-373.1', carbonate and graphite in fractures, core broken 355.7-375', sand 530.0-531.9'; Lost core: 358.1-361.3', 361.8-363.1', 365.0-368.3', 370.0-372.0', 374.1-376.3', 380.0-386.4', 387.5-392.0', 394.5-396.3', 398.1-401.3', 401.9-406.3', 408.8-412.6', 414.4-415.0', 417.5-418.1', 420.7-422.0', 423.2-423.9', 425.0-427.6', 430.2-442.7', 443.3-443.9', 446.2-446.8', 449.4-450.0', 451.3-452.6', 457.2-458.5', 453.6-454.1', 455.9-456.5', 459.4-461.3', 462.2-462.8', 463.6-464.2', 465.0-465.7', 466.6-467.2', 467.7-469.6', 470.0-471.3', 473.0-473.6', 484.4-475.0', 475.3-487.6', 488.6-489.2', 492.5-493.1', 494.6-495.0', 497.3-497.9', 500.0-503.3', 507.0-508.3', 510.0-510.7', 511.0-512.5', 513.0-514.0', 515.0-516.3', 516.9-522.6', Core angles: 11° at 363.5', 40° at 387.5', 75° at 393', 42° at 401.6'

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Log Diamond Drill Hole U-58, Contd.

80° at 418.8', 50° at 423', 57° at 428.4', 76° at
445', 84° at 451', 65° at 459.4', 83° at 466', 75°
at 475', 48° at 490', 55° at 499.5', 52° at 504.5',
30° at 525', 40° at 529.5', 47° at 532.3'.
End of Hole 533'.

Log Diamond Drill Hole.

Hole Number: U-59

N79558.38 Dip: +34° Bearing N8°39'E
~~E50843.32~~ Elevation: 4757.69 Depth:
E50843.32

Date Started: Dec. 31st, 1970, Finished:

Drilled By: Cameron McCutcheon Drilling Ltd.,

Logged By: I/ Young.

0.0 24.4 Grey siliceous argillite, well bed ed, occasional
contorted siltstone beds, very slight pyrite,
occasional quartz stringers, core broken from
0.0-24.4', Lost core 2.8-3.9', 6.2-7.5', 8.1-
9.0', 12.8-14.1', 16.2-16.8', 19.4-20.0',
Core angles: 10° at 5', 7° at 14.7', 21° at
19', 2° at 23'.

24.4 76.0 Conglomerate, subangular coarse to medium ~~sized~~
sized fragments of chert, quartz and argillite,
very slight pyrite, graphite in fractures,
occasional quartz stringers.
Hole had to be stopped at this point due to
fuel shortage.

Log Diamond Drill Hole.

Hole Number: U-60

N77018.40 Dip: -80° Bearing N65°E
E50789.52 Elevation: 4753.36 Depth: 578'

Date Started: Jan. 12th, 1971. Finished: Jan. 26th, 1971.

Drilled By: Cameron McCutcheon Drilling Ltd.,

Logged By: I. Young.

0.0 500.7 Black graphitic argillite, well bedded, occasional slitstone beds, few white quartz stringers, graphite and minor carbonate in fractures, slight pyrite, ss pyrite 137.5-138.0', visible sphalerite and galena from 499.1-500.7' with fair pyrite, core broken 0.0-75.0' and 223.2-248.4'. Lost core: 0.5-1.8', 2.8-8.4', 9.4-10.0', 11.7-14.3', 13.5-18.2', 19.3-20.6', 41.3-42.0', 43.6-47.1', 51.3-51.9', 120.0-120.7', 12.3-124.6', 215.0-218.3', 218.7-222.3', 223.2-227.7', 228.1-238.9', 239.4-244.1', 245.0-248.3', 251.1-253.1', 257.5-258.1', 313.3-314.6', 316.5-317.9', 347.1-349.1', 350.7-352.7', 353.3-354.6', 464.4-467.0', 468.7-470.0', 474.4-475.0', 479.4-480.0', Core angles: 26° at 23', 26° at 32', 28° at 42', 50° at 50', 44° at 88.5', 34° at 57.5', 33° at 68', 35° at 100', 35° at 115.5', 44° at 122', 40° at 136', 48° at 157.5', 44° at 171.5', 43° at 181', 46° at 194.5', 45° at 212', 54° at 250.5', 45° at 260', 49° at 272.5', 47° at 277.5', 66° at 293', 70° at 299.5', 68° at 309.5', 71° at 324', 71° at 334.4', 61° at 341.5', 76° at 361.5', 65° at 367', 74° at 374.5', 76° at 361.5',

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Log Diamond Drill Hole U-60, Contd.

74° at 374.5', 79° at 382.5', 80° at 394.5', 43° at 411', 67° at 421.1', 70° at 426.8', 70° at 432', 75° at 446', 70° at 456', 79° at 471.1', 70° at 484', 60° at 491.9', 70° at 499.5'.

500.7 512.0 Black argillaceous limestone, well bedded, considerable contortion, mineralized very slight galena and pale brown sphalerite, along bedding, from 500.7-505.7', fair pyrite 502.8-503.3', fair galena and sphalerite from 505.7' to 507.6', slight mineralization from 508.3-509.4', near massive grey galena from 511.3-512.0', few white quartz stringers, slight pyrite and carbonate in fractures, lost core 507.6-508.3', 509.4-511.3', Core angles: 75° at 505.6'.

512.0-512.7 Lost core.

512.7 522.5 Grey baritic limestone, well bedded, considerable chert, mineralized fair galena and pink disseminated sphalerite in bedding, very slight pyrite, barite crystals and carbonate in fractures, core angle 75° at 516.4'.

522.5 523.8 Lost core.

523.8 567.8 Grey argillaceous limestone, severely contorted, mineralized slight to fair galena and brown disseminated sphalerite 523.8-551.1', slight mineralization from 551.1-554.1', grey chert 551.1-554.1',

Log Diamond Drill Hole, U-60, Contd.

with visible galena and sphalerite, numerous white quartz stringers, deformed chert and quartz fragments, carbonates in fractures, occasional vugs, argillite increases from 551.1-567.8', lost core: 527.6-528.3', Core angles: 53° at 529.5' 60° at 544.5', 60° at 549.5', 72° at 558.5', 52° at 566.5'.

567.8 572.0 Grey cherty argillite, few white quartz stringers, slight pyrite, occasional siltstone beds, graphite in fractures, occasional carbonate stringers.

572.0-578.0 Conglomerate, fragments of chert and quartz and argillite, carbonate filling fractures, from 572-574.3', very slight pyrite, occasional beds argillite.

End of Hole 578'

Log Diamond Drill Hole.

Hole Number: U-61

N79898.04 Dip: Flat Bearing: S59°21'W
E51151.13 Elevation: 4754.73 Depth: 50.0'

Date Started: Jan. 13th, 1971, Finished: Jan. 14th, 1971.

Drilled By: Cameron McCutcheon Drilling Ltd.,

Logged By: I. Young.

0.0 19.5 Black graphitic argillite, rather massive, very slight pyrite, mineralized slight galena and brown sphalerite from 0.6-1.3' and 15.7-19.5', occasional white quartz stringers, carbonate and graphite in fractures, Lost core: 3.4-10.0', core angles: 54° at 16.5'.

19.5 24.6 Grey argillaceous limestone, well bedded, severe contortion, very slight pyrite, mineralized fair galena and brown disseminated sphalerite along bedding, numerous quartz stringers, carbonate in fractures with some leaching, core angle: 58° at 21.5'.

24.6 50.0 Black, well bedded graphitic argillite, siliceous, very slight pyrite, mineralized slight galena and sphalerite, 24.6-33.4', pale brown sphalerite in quartz stringers and disseminated along bedding, fair mineralization from 33.4-34.3', few specks galena and sphalerite from 34.1-38.3' and 40.3-46.6', few white quartz stringers, carbonate and graphite in fractures, some contortion, core angles: 67° at 29', 29° at 38', 47° at 44', 63° at 48'.

End of Hole 50'

Log Diamond Drill Hole: Tom Claims, Yukon.

Hole Number: U-62

N77013.1 Dip: -85° Bearing: S70°E
E50780.3 Elevation: 4755.9 Depth: 806'

Date Started: August 3rd, 1971. Finished: August 24th, 1971

Drilled By: Arctic Diamond Drilling

Logged By: B. McFadden, R. McIntosh.

0.0 183.0 Graphitic argillite, core angles: at 47' 28°
at 80' 30°, at 110' 26°, at 140' 32°, at 160'
30°, Lost core: 27.8-28.6', 46.0-47.0', 110.0-
112.0'.
92.0-92.6' quartz carbonate stringers mineralized
with pyrite.
183.0 189.6 Silty section.
189.6 247.0 Black graphitic argillite, well bedded, pyrite
bands, core angle at 210' 34°.
247.0 248.0 Quartz carbonate, scattered pyrite.
248.0 317.0 Black well bedded graphitic argillite, scattered
pyrite, core angle at 250' 31°.
317.0 465.0 Black graphitic argillite, scattered quartz carbonate
stringers, occasional pyrite concretions, well bedded
to massive and occasional pyritic beds, core angle
at 330' 35°.
335.0-367.0' very broken with scattered quartz carb.
stringers, from 367.0' no stringers, at 318' core
angle 40°, 400-418' cleavage almost parallel hole.

Log Diamond Drill Hole U-62 Contd. - 2 -

At 446' core angle 42°, The hole was reduced from
NQ to BQ at 465'.

465.0 707.2 Black graphitic argillite, parts well bedded, very
occasional blebs and stringers pyrite, at 472'
broken with numerous quartz carbonate stringers,
at 490' core angle 50°, narrow mud seam at 534',
at 498' core angle 54°, at 498' occasional small
pyrite concretions, 503-512' very fine disseminated
pyrite, at 530' core angle 55°, at 535' core
angle 55°, increased pyrite 542-546', at 550'
core angle 62°, 564-566' ground broken with Qtz.
carb. stringers, at 570' pyrite, at 564-586'
ground broken and sections brecciated with quartz
carbonate stringers, core angle at 603' 55°,
606'
at 572' pyrite, core angle 615' 55°, at 622' 53°,
2' lost core at 626', 641-644' ground broken with
sections lost core.

707.2 732.0 Grey fine bedded chert and graphitic argillite,
slight to fair pyrite. 711-713.5' 70% white quartz,
core angle 35° to parallel, 715-722' core recovery
30%, 724-731' core recovery 25%.

732.0 758.0 Brecciated limestone, parts included argillite,
sections chloritic, slight to light pyrite, very
slight chalcopyrite, 734-737' sections bear solid
sulphide, sphalerite, at 745' fair galena, 751'
min. galena,

Log Hole U-62 Bontd - 3 -

at 752' slight galena, 746-749' 70% core recovery,
751-754' 60% core recovery, 754-758' 10% core
recovery, well mineralized galena.

758.0-802.6 Brecciated conglomerate, scattered quartz carbonate
stringers, 758-766' core recovery 80%, sections
argillite, 783-786' white quartz, from 786'
resembles normal conglomerate.

802.6 805.0 Argillite, grey to black.

805.0 806.0 Sandstone, medium coarse grained.

End of Hole 806'.

Log Diamond Drill Hole

Tom Clemons, Yukon.

Hole Number: U-63

N76898.7
E50567.5

Dip: -85°
Elevation: 4758.4

Bearing: N54°00'E
Depth: 652'

Date Started: August 27th, 1971. Finished: September 25th, 1971.

Drilled By: Arctic Diamond Drilling

Logged By: B. McFadden

0.0 110.6 Black graphitic argillite, well bedded, scattered
pyrite, occasional narrow silt beds, core angles:
at 30° 25°, at 66° 27°, 70° 27°, 110° 35°.
Lost core: 5.0-17.0', 23.0-24.0', 44.0-47.0', 62.0-
65.0', ~~XXXX~~

110.6 128.0 Black fine grained argillite, scattered pyrite,

128.0 153.0 Black graphitic argillite, well bedded, silty section
130.0-132.0', Core angles: 140° 32°.

153.0 160.0 Black argillite, massive, .

160.0 197.0 Black graphitic argillite, well bedded, scattered pyrite,

197.0 204.3 Quartz carbonate.

204.3 415.0 Black massive argillite, silty sections, narrow, scattered
pyrite, core angles: 206° 40°, 320° 50°, 400° 51°.

415.0 445.0 Black graphitic fine grained argillite, scattered pyrite,
core angles: 425° 50°, 440°, 52°, Lost core: 417-418°.

445.0 448.0 Siltstone, medium grained,

448.0 490.0 Black fine grained graphitic argillite, well bedded,
narrow quartz carb. stringers, silty section 471-472',
core angles: 445° 50°, 463° 50°, Lost core: 435-437',
436-437'.

Log Diamond Drill Hole U-63, Contd. - 2 -

- 490.0 597.0 Quartz carbonate stringers in argillite.
- 497.0 562.0' Black graphitic argillite, fine grained, well bedded,
cherty band 529-532'. Core angles: 509' 62°, 562' 62°.
Lost core: 508-509', 516-517', 527-528', 536-537',
542-544', 545-546', 549-550', 553-555', 556-557', 558-561'.
~~XXXXXXXXXXXXXXXXXXXX~~
- 562.0 601.0 Black graphitic argillite, well bedded, broken blocky,
graphitic mud 576-578', sections 30-40% graphite,
scattered pyrite, Core angles: 570-68°, 595' 62°.
Lost core: 564-567', 568-569', 578-591', 592-595',
597-598'.
- 601.0 642.0 Black well bedded fine grained graphitic argillite,
narrow silty sections, Core angles: 607' 72°, 626' 74°
- 642.0 652.0 Lost core.
Hole abandoned at 652' when rods jammed in.

Log Diamond Drill Hole.

Tom Claine, Yakon.

Hole Number U-63-W-1

For coordinates see Hole U-63.

Date Started: Sept. 24th, 1971. Finished: Oct. 6th, 1971.

Drilled By: Arctic Diamond Drilling

Logged By: B. McFadden

Top of wedge at 470.0', bottom 480.0'.

- 480.0 577.0 Black graphitic argillite, occasional stringers
pyrite, occasional carbonate stringers, 487-
507' scattered narrow carb. stars.
at 491' core angle 60°, at 501' core angle 60°,
at 510' core angle 60°, at 534' core angle 57°.
Lost core 540-546', 549-552'.
558-566' brecciated with numerous quartz carb.
stringers, 5' lost core 558-565'.
- 577.0 595.0 Fault zone, graphitic mud and sand, no core.
- 595.0 662.0 Black graphitic argillite, well bedded, scattered
pyrite, core angles: at 597' 62°, at 617' 66°,
at 660' 68°.
Lost core: 610.0-612.0', 640-646', 648-650'.
- 662.0 664.0 Fine grained grey black siltstone, massive.
- 664.0 778.0 Massive, fine grained argillite, scattered
pyrite, 749-758' well bedded section, 775-778'
numerous quartz carb. stars.
Core angles: at 670' 62°, at 701' 63°, at 726'
65°, at 770' 66°. Lost core: 713-714', 714-715',
724-727', 776-777'.

Log Diamond Drill Hole U-63-W-1 Contd - 2 -

778.0 - 785.0 Fine grained black cherty argillite, slight pyrite.
massive.

785.0 813.0 Well bedded fine grained chert, interbedded with
limestone, slight pyrite, well mineralized
sphalerite, slight galena, core angle at 795' 63°,
lost core: 803-805', 807-813'.

813.0 847.0 Grey to white medium grained baritic limestone,
well bedded, occasional very thin beds chert, slight
pyrite, slight to well mineralized sphalerite,
very slight galena, 832-834' highly contorted
core angles 5-10°, 815' 74°, 830' 74°, Lost core:
820.0-822.0', 845-846'. Petid at 842'.

847.0 848.0 Massive black chert, slight pyrite.

848.0 873.0 Highly contorted, baritic limestone, medium
grained, well bedded, Thin interbedded chert,
slight pyrite, well mineralized sphalerite and
galena, core angles: at 850' 15°, 851' 0°, 856' 70°.

873.0 913.0 Grey to white medium grained baritic limestone,
poorly bedded, interbedded thin chert beds, slight
pyrite, slight to mineralized sphalerite, minor
galena, core angle 910' 70°, lost core 905-908',
910-913'.

913.0-924.0 Well bedded medium grained baritic limestone,
slight pyrite, slight to mineralized sphalerite,
minor galena.

924.0 971.0 Dark grey medium grained baritic limestone, interbedded
chert and limy breccia, contorted section 933-938'

Log diamond drill hole U-63-W-1 Contd.. - 3 -

core angle 0-15°, scattered pyrite sphalerite
and galena, core angle 944' 80°.

971.0 990.0 Grey to black fine grained massive argillite,
broken, blocky, slight pyrite, core angle 979'
82°. Lost core 985-987'.

990.0 996.0 Grey argillite, massive, concretionary pyrite.
End of Hole 996'

Log Diamond Drill Hole

Tom Claims, Yukon.

Hole Number: U-64

N76902.5
E50568.7

Dip: -75°

Bearing: N42°E

Elevation: 4757.9

Depth: 833'

Date Started: October 10th, 1971. Finished: October 27th, 1971.

Drilled By: Arctic Drilling

Logged By: B. McFadden

- 0.0 13.0 Well bedded fine grained siltstone, grey, core angle at 13' 54°, Lost core 5-11'.
- 13.0 32.0 Well bedded medium grained black graphitic argillite, scattered pyrite. core angle at 31' 54°.
- 32.0 90.0 Well bedded medium grained grey siltstone, graphitic sections on cleavage planes, slight pyrite, broken blocky section 43-49'. Core angles: at 35' 52°, at 54' 50°, at 60' 52°, at 82' 48°, Lost core 37-40', 44-47'.
- 90.0 101.0 Well bedded fine grained black graphitic argillite, slight pyrite. Core angle at 96' 49°.
- 101.0 113.0 Well bedded fine grained grey siltstone. Core angle at 113' 47°, Lost core 102.0-104.0'.
- 113.0 233.0 Massive fine grained black graphitic argillite, numerous thin beds grey siltstone. Core angles: at 130' 56°, at 150' 55°, at 180' 58° at 200' 57°, at 230' 56°, Lost core: 115-117', 121-123', 160-162'.
- 233.0 268.0 Possibly fault zone, broken blocky fine grained well bedded black graphitic argillite, graphitic mud and sand core angle 0-15°, Lost core: 233-243'.

Log Hole Number U-64, Contd. - 2 -

- 268.0 295.0 Quartz carbonate stringers in well bedded grey argillite, slight pyrite. Core angles: at 269' 55°, at 292' 62°, Lost core: 277-279', 280-291'.
- 295.0 304.0 Well bedded fine grained black graphitic argillite, slight pyrite.
- 304.0 306.0 Quartz carbonate zone in graphitic argillite.
- 306.0 423.0 Well bedded medium grained black graphitic argillite, solid pyrite 410.6-411.0'. Core angles: at 306' 52°, at 330' 52°, at 345' 65°, at 360' 65°, at 418' 63°, Lost core 341-344'.
- 423.0 426.0 Graphitic mud.
- 426.0 457.0 Quartz carbonate stringers in well bedded fine grained black graphitic argillite. Core angles: at 437' 66°, Lost core 444-447'.
- 457.0 541.0 Well bedded fine grained broken blocky black graphitic argillite, graphitic mud and sand (possibly fault zone) slight pyrite. Core angles: at 465' 61°, at 490' 49°, Lost core 449-451', 480-482'.
- 541.0 618.0 Massive fine grained black graphitic argillite, scattered pyrite. Core angles: at 543' 65°, at 590' 73°, at 600' 80°.
- 618.0 620.0 Grey fine grained siltstone bed, massive. Core angle at 620' 86°.
- 620.0 707.0 Poorly bedded fine grained black graphitic argillite, scattered pyrite, core angles: at 640' 82°, at 641' 83°, at 668' 83°, at 680' 87°.

TOM PROPERTY

1050/1

SURFACE DDH LOGS

081204

TOM CLAIMS - YUKON

Section 70 - OON

D.D.H. No. 1

0 - 36.0	Casing
36.0 - 38.6	Black Shale (Graphite.)
38.6 - 39.1	Black Shale, nearly solid pyrite, stringers quartz - carbonate.
39.1 - 41.4	Black shale 40.0 - 40.5 Lost core.
41.4 - 41.5	Solid sulphides - pyrite.
41.5 - 47.5	Black shale part with narrow quartz carbonate stringers and pyrite crystals.
47.5 - 62.4	Black Shale. Lost core: 47.5 - 48.4, 55.6 - 56.3, 57.7 - 58.5, 59.3 - 60.0, 61.7 - 62.4.
62.4 - 64.5	Black shale with narrow quartz stringers and slight pyrite.
64.5 - 67.7	Black Shale. Lost core: 65.4 - 66.7.
67.7 - 68.2	Fine interbedded black & grey shale fine quartz stringers in fractures, slight sphalerite (?)
68.2 - 68.3	White quartz stringer.
68.3 - 69.2	Black shale & fine quartz stringers.
69.2 - 70.3	Fine interbedded black and grey shale and fine quartz stringers with slight sphalerite and pyrite.
70.3 - 71.4	Grey shale, quartz stringers and slight sphalerite.
71.4 - 71.6	Fine interbedded black and grey shale with fine quartz stringers.
71.6 - 72.8	Black shale. Lost core 72.0 - 72.4
72.8 - 73.8	Grey shale with fine quartz stringers and slight sphalerite.
73.8 - 74.5	Grey shale with fine quartz stringers.
74.5 - 76.1	Fine interbedded black and grey shale, slightly brecciated and quartz filled. Well mineralized with sphalerite (pale) and slight galena (75' - 60')
76.1 - 77.0	Lost core.

D.D.H. No. 1 (cont'd)

- 2 -

77.0 - 77.3	Fine interbedded black and grey shale with fine quartz stringers and slight sphalerite.
77.3 - 79.3	Black shale. Lost core: 78.2 - 78.8.
79.3 - 79.4	Grey shale and fine quartz stringers with pyrite.
79.4 - 80.7	Black shale with slight fine quartz stringers and parts with pyrite.
80.7 - 81.4	Lost core.
81.4 - 83.9	Black shale
83.9 - 84.3	Black shale with fine quartz stringers pyrite, galena and slight sphalerite.
84.3 - 88.6	Black shale parts with quartz stringers and slight pyrite ($\frac{1}{2}$ inch bedded pyrite @ 88') Lost core 85.0 - 86.4.
88.6 - 89.5	Grey shale with quartz stringers and slight pyrite.
89.5 - 93.3	Fine interbedded black and grey shale with narrow quartz stringers and pyrite, slight galena and sphalerite (2)
93.3 - 93.9	White quartz vein with slight galena (high grade galena at both edges.
93.9 - 94.2	White quartz, nearly solid galena.
94.2 - 94.7	Grey shale with quartz stringers and slight pyrite.
94.7 - 95.1	Grey shale with white quartz mineralized with galena and sphalerite.
95.1 - 96.4	Fine interbedded black and grey shale with quartz stringers and pyrite.
96.4 - 97.1	Black shale with slight quartz - pitted & leached, pyrite and slight galena.
97.1 - 99.7	Black shale with bands mineralized with pyrite (and slight galena?)
99.7 - 100.5	Grey shale - finely brecciated and quartz filled.
100.5 - 100.8	Black shale white quartz mineralized with pyrite.
100.8 - 102.5	Black shale with parts white quartz breccia
102.5 - 103.0	Gre;wacke slight pyrite and galena

103.0 - 103.8	Grey shale with quartz well mineralized with pyrite.
103.8 - 105.3	Black Shale.
105.3 - 105.5	Black shale mineralized with pyrite.
105.5 - 105.8	Black shale with quartz stringers.
105.8 - 106.8	Lost core.
106.8 - 107.6	Greys shale with fine quartz stringers and quartz breccia.
107.6 - 109.2	Black shale with few fine quartz stringers and quartz breccia.
109.2 - 110.6	Lost core.
110.6 - 112.4	Black shale few fine quartz stringers.
112.4 - 112.5	Grey shale with quartz nearly solid pyrite.
112.5 - 113.9	Black shale Lost core 112.7 - 113.2
113.9 - 114.8	Grey shale with white quartz - nearly solid pyrite.
114.8 - 115.2	Black shale.
115.2 - 115.3	Grey shale with white quartz well mineralized with pyrite.
115.3 - 125.0	Thin interbedded black and grey shale parts slightly mineralized pyrite.
125.0 - 125.6	Interbedded black and grey shale well mineralized with pyrite.
125.6 - 126.1	Interbedded black and grey shale.
126.1 - 129.3	Interbedded black and grey shale, well mineralized with pyrite, to nearly solid sulphide.
129.3 - 146.5	Interbedded black and grey shale parts with narrow quartz stringers slight mineralized with pyrite mineralized with pyrite and very slight galena.
146.5 - 147	Lost core.
147.0 - 160.3	Interbedded black and grey shale parts slightly mineralized with pyrite. Lost core: 149.0 - 149.5
160.3 - 161.0	Greywacke 150.0 - 151.5

161.0 - 237.0	Interbedded black and grey shale, and greywacke parts very slight pyrite (200' - 80°)
	Lost core 175.5 - 176.6
	179.0 - 180.0
	180.0 - 183.0
257.0 - 266.0	Conglomerate very slight pyrite.
266.0 - 269.7	Grey and black shale very slight pyrite.
269.7 - 278.5	Conglomerate very slightly mineralized - few bands black shale.
278.5 - 290	Fine grained Conglomerate.
290.0 - 313.0	Conglomerate. Slight pyrite, eck chalcoppyrite @ 295.7
313 - 347	Interbedded grey parts with conglomerate very slight pyrite.
	Lost core: 317.7 - 319.2 329.6 - 330.4
	320 - 321.5 331.1 - 332.5
	324.5 - 325.0 334.5 - 340.0
	327.5 - 328.1 345.5 - 347.0
347.0 - 378.2	Conglomerate parts very slight scattered pyrite.
	Lost core: 351.1 - 356.1 370.0 - 371.4
	363.2 - 365.0 373.0 - 376.2
	368.3 - 369.3
373.2 - 378.6	Black shale with slight pyrite.
378.6 - 402	Interbedded black shale and conglomerate and slight pyrite
	Lost core: 378.6 - 380.0
	399.3 - 400.7
	401.5 - 402.2
402.2 - 427.7	Interbedded grey and black shale and very slight pyrite.
	Lost core: 404.5 - 405.0 418.2 - 420.0
	408.3 - 409.0 427.0 - 427.7
427.7 - 525.0	Interbedded grey and black shale and quartzite slight fine pyrite slight leached spots.

R.P.H. No. 1. (cont'd)

- 3 -

535.0 - 541.7 Interbedded black and grey shale (few white quartz stringers lens solid pyrite @ 527.8) brecciated in spots.

541.7 - 542.2 Greywacke.

542.2 - 550.3 Interbedded black and grey shale, and greywacke slight pyrite crystals.

550.3 - 559.0 Greywacke - slight pyrite crystals.

559.0 - 571.9 Interbedded grey and black shale slight pyrite, a few quartz stringers

571.9 - 583.9 Black shale slight and very slight pyrite with quartz stringers

Lost core: 580.0 - 581.1 587.7 - 588.9

583.3 - 584.0

588.9 - 745.2 Interbedded black and grey shale parts slight pyrite parts with grey wacke, parts with quartz stringers.

Lost core: 607.7 - 608.2 682.0 - 682.7

639.0 - 640.0 684.0 - 684.2

650.3 - 652.0 695.0 - 696.7

653.2 - 655.0 702.6 - 705.0

745.2 - 745.9 White quartz visible galena

745.9 - 746.1 Soft crumbly black shale fine mineralization

746.1 - 746.7 Greywacke white quartz stringers.

746.7 - 750.1 Fine interbedded grey and black shale well mineralized with fine pyrite.

750.1 - 775.6 Interbedded grey and black shale slight pyrite.

Lost core: 750.6 - 751.2

775.6 - 790.0 Gray sandy shale (greywacke) few white quartz stringers slight pyrite.

790.0 - 972.1 Interbedded grey and white shale, few fine white quartz stringers parts with greywacke and sandy shale slight or well mineralized with pyrite.

R.P.H. No. 1. (cont'd)

- 5 -

Lost core: 938.8 - 940.6 971.6 - 972.1

949.3 - 970.6

972.1 - 974.3 Black shale, well mineralized with pyrite.

974.3 - 977.3 Greywacke, with interbedded grey and black shale, white quartz stringers slight to well mineralized with pyrite.

Lost core: 974.4 - 975.4

977.3 - 990.0 Interbedded black and grey shale, parts with greywacke slight to mineralized with pyrite.

Lost core: 979.5 - 981.2

984.6 - 987.8

End of Hole

TOM CLARKS - TUNON

Section 66 + 008

D.D.H. No. 2

0.0 - 25.0

25.0 - 86.0

Casing

Black shale very slight scattered pyrite parts few narrow quartz stringers.

Lost core:

30.0 - 30.6 40.0 - 40.7 65.0 - 65.6

32.5 - 33.6 51.3 - 52.0 70.0 - 71.2

34.6 - 35.0 56.5 - 57.8 72.5 - 74.0

36.0 - 36.6 59.5 - 60.0 74.5 - 75.0

37.4 - 38.0

84
49.0 - 151.5

Altered limestone well mineralized with galena, some pyrite parts leached and oxidized.

Lost core: 135.3 - 136.1 143.0 - 143.9

151.5 - 160.8

Limy black shale slight to mineralized with pyrite.

Lost core: 157.2 - 158.1 159.0 - 159.5 160.0 - 160.8

160.8 - 265.6

Interbedded grey and black shale, some white quartz stringers very slight pyrite, parts limy black shale, parts greywacke.

Lost core: 161.5 - 162.4 163.3 - 164.4

165.0 - 165.5 166.7 - 167.7 169.3 - 170.9

171.4 - 172.1 172.3 - 172.9 173.2 - 173.9

175.5 - 176.1 177.2 - 178.0 178.4 - 179.1

179.3 - 180.0 181.1 - 182.0 186.0 - 186.6

189.5 - 190.0

189.5 - 190.0 193.0 - 193.5 213.4 - 214.1

220.5 - 221.0 225.0 - 225.5 227.6 - 228.4

259.6 - 260.5 262.4 - 264.0

265.6 - 281.2

Conglomerate parts well mineralized with pyrite.

Lost core: 267.7 - 268.7 280.6 - 281.2

281.2 - 282.2

Fine conglomerate - very slight pyrite.

282.2 - 286.9

Black shale slight pyrite Lost core: 283.6 - 284.5

D.D.H. No. 2, (cont'd)

- 2 -

286.9 - 287.2

Fine conglomerate

287.2 - 298.6

Interbedded grey and black shale, very slight pyrite.

298.6 - 299.6

Sandstone few pyrite crystals.

299.6 - 320.2

Interbedded grey and black shale with quartz stringers slight pyrite. Lost core: 311.7 - 312.7

315.0 - 315.9 316.6 - 318.1

320.2 - 321.5

Conglomerate with veins of feldspar some quartz eyes slight pyrite

321.5 - 341.6

Conglomerate and chert, few quartz stringers slight chalcoppyrite.

341.6 - 342.3

Siliceous black shale

342.3 - 350.3

Interbedded grey and black shale few stringers of quartz and quartz carbonate.

350.3 - 350.5

Black shale well mineralized with chalcoppyrite.

350.5 - 352.6

Black chloritic shale scattered well mineralized with chalcoppyrite slight pyrite.

352.6 - 353.8

Black chloritic shale mineralized with chalcoppyrite slight pyrite.

353.8 - 355.0

Black shale very slight pyrite.

355.0 - 355.1

Quartz stringers well pitted mineralized with pyrite.

355.1 - 374.1

Interbedded grey and black shale parts very slight pyrite crystals parts with white quartz stringers.

Lost core: 356.9 - 358.1

360 - 363 365.8 - 366.8

367.3 - 368.2 368.8 - 369.7

370.6 - 371.4 373.2 - 374.1

374.1 - 404.2

Grey conglomerate very slight pyrite, leached parts crumbly

P.D.H. No. 2. (cont'd)

- 3 -

	Lost core:	376.1 - 376.9
	378.0 - 379.2	380.7 - 383.2
	384.2 - 385.0	387.0 - 388.6
	389.2 - 390.0	390.4 - 391.0
	392.2 - 393.0	393.6 - 394.0
	394.6 - 395.0	403.6 - 404.2
404.2 - 412.8	Brecciated chert and black shale, few quartz eyes parts leached and crumbly.	
	Lost core: 409.6 - 410.0	
412.8 - 428.5	Fine interbanded grey and black shale parts few white quartz stringers, parts very slight fine pyrite.	
	Lost core:	416.1 - 417.5
	418.6 - 419.6	424.6 - 425.8
428.5 - 437.6	Conglomerate and black shale white quartz stringers parts slight pyrite.	
437.6 - 445.3	Fine interbanded grey and black shale white quartz stringers very slight to mineralized with pyrite.	
	Lost core:	440 - 441
	441.7 - 442.5	444.3 - 445
445.3 - 446.0	Conglomerate with white quartz stringers mineralized with pyrite.	
446 - 449.1	Black shale	
	Lost core:	446.1 - 447.1
		447.8 - 448.4
449.1 - 465.0	Conglomerate parts with shale parts leached	
	Lost core:	449.2 - 451
	454.3 - 455.4	463.5 - 464.0
465.0 - 474.2	Bands black shale and greywacke parts slight pyrite.	
	Lost core:	465.4 - 466.7
	471.1 - 472.4	473.0 - 474.1

P.D.H. #2. (cont'd)

- 4 -

474.2 - 492	Conglomerate parts fitted and leached parts very slight fine pyrite.	
	Lost core:	475 - 475.6
	482.3 - 483.1	483.7 - 484.6
	486.1 - 487.1	488.3 - 489.7
	490.0 - 490.6	491.0 - 492.0
492 - 554.0	Interbanded grey and black shale parts slight pyrite parts quartz stringers.	
	Lost core:	499.5 - 500
	511.2 - 513	518 - 519.4
	521.2 - 522.8	550.5 - 551.0
	553.6 - 554.0	
554.0 - 581.4	Black shale parts grey limy rock parts slight pyrite.	
	Lost core:	560.9 - 561.7
	565.0 - 566.5	574 - 575
	577.3 - 579.3	580.3 - 581.4
581.4 - 711.0	Grey and black shale few fine white quartz stringers slight pyrite parts greywacke.	
	Lost core:	603.7 - 604.7
	611 - 612.4	613.2 - 615.5
	622.1 - 623	624.2 - 625.0
	631.0 - 631.7	649.3 - 650.0
	655.0 - 656.7	669.2 - 670.0
	674.8 - 675.0	680.0 - 682.0
	691.0 - 692.1	697.0 - 697.8
	701.6 - 702.9	703.9 - 705.0
	706 - 706.9	

End of Hole

TOM CLARKS - YUKON

Section 7 1/2 & 00M
0 + 78M

D.D.H. No. 3

0.0 - 2.0

Casing

20.0 - 57.4

Black shale, few narrow quartz stringers very fine slight pyrite. (?)

Lost core: 26.7 - 27.3 27.7 - 28.6

29.4 - 30.6 32 - 32.6 36.7 - 37.5

41.0 - 42.6 47.7 - 49.1 51.2 - 52.4

55.0 - 56.0

57.3 - 62.6

Fine interbanded black and grey shale slight pyrite with quartz stringers. Lost core: 61.0 - 61.7

62.6 - 76.5

Black Shale few white quartz stringers oxidized in fractures slight pyrite. Lost core: 63.4 - 65.0

66.2 - 66.9 67.5 - 69.4 71.9 - 72.8

76.5 - 83.3

Black shale parts interbanded with grey shale, slight pyrite parts stringers of sphalerite.

83.3 - 114.0

Black shale with quartz and calcite stringers parts interbanded with grey shale slight pyrite parts stringers of pyrite.

Lost core: 90.0 - 90.6 92.6 - 93.2

95.5 - 98.8 99.1 - 102.4 102.8 - 106.8

107.9 - 111.0 113.4 - 114.0

114.0 - 179.3

Fine interbanded black and grey, shale parts stringers of pyrite. Lost Core: 134.6 - 135.6

139.3 - 140.0 151.1 - 152.0 162.0 - 162.5

163.7 - 165.0 166.1 - 166.7 167.8 - 168.1

168.5 - 169.0 171.0 - 171.4 171.9 - 172.2

172.6 - 173.4 174.2 - 174.8

179.3 - 181.2

Greywacke

181.2 - 261.0

Interbanded grey and black shale stringers of pyrite parts very slight fine pyrite. Lost core: 181.2 - 182.2

220.5 - 221.2 224.6 - 225.5 228.7 - 229.6

D.D.H. No. 3, (cont'd)

- 2 -

231.5 - 231.8 235.0 - 235.7 237.8 - 238.1

239.6 - 240.0 240.2 - 240.7 245.1 - 245.4

245.9 - 246.3 246.8 - 247.4 247.8 - 248.4

250.7 - 251.0 251.2 - 251.2 251.5 - 251.7

252.3 - 252.5 253.8 - 254.5 257.1 - 258.0

258.8 - 259.0 260.6 - 261.0

End of Hole

TOM CLARKS - YUKON

Section 62 + 00N

P.D.S. No. 1

C.0 - 15.0 Casing

15.0 - 73.2 Black shale, parts few white quartz stringers. Stringers pyrite.

Lost core: 20.0 - 21.3 23.5 - 25.0 30.7 - 32.0
35.0 - 36.6

73.2 - 119.0 Black shale few fine quartz stringers slight fine pyrite parts mineralized with sphalerite and galena.
Lost core: 89.2 - 90.0

119.0 - 132.3 Banded altered limestone, fine bands galena, sphalerite, slight pyrite.

132.3 - 138.4 Fine interbedded black and grey shale and limestone well mineralized with galena, pyrite, stringers of quartz or chert.

138.4 - 138.9 Grey quartzite, limy stringers slightly mineralized with pyrite, specks galena.

138.9 - 140.3 Altered limestone mineralized with galena and pyrite,

140.3 - 140.5 Limestone, slight fine pyrite.

140.5 - 142.0 Altered limestone (bedded) mineralized with pyrite and galena.

142.0 - 144.0 Interbedded altered limestone $\frac{1}{2}$ " to 1" bands of grey cherty rock white quartz stringers well mineralized with pyrite, slight galena.

144.0 - 147.2 Altered limestone parts fine interbedded chert with stringers of galena.

147.2 - 156.4 Altered limestone mineralized with galena slight pyrite, few bands chert.

156.4 - 156.9 Lost core.

156.9 - 158.3 Brown black and white altered limestone mineralized with pyrite galena and pyrrhotite. (?)

158.3 - 158.7 Grey cherty rock, limestone stringers, slight mineralization in fractures.

158.7 - 160.0 Banded altered limestone slight pyrite sphalerite and galena.
Lost core: 158.8 - 159.2. Banded.

P.D.S. No. 2 (cont'd)

-2-

160.0 - 172.5 Altered limestone parts well mineralized galena, pyrite sphalerite(?)

172.5 - 173.0 Cherty schist, greywacke, fine galena and pyrite.

173.0 - 186.3 Altered limestone, stringers of galena, parts disseminated.

186.3 - 186.8 Cherty schist, (granular limestone) slight fine pyrite.

186.8 - 192.8 Altered limestone stringers of galena slight to nearly solid pyrite.

192.8 - 194.0 Nearly solid pyrite in black shale, stringers of white quartz and limy rock, slight cubic galena @ 193.7.

194.0 - 197.3 Black shale few fine quartz stringers - stringers pyrite.
Lost core: 196.2 - 196.6; 197.0 - 197.3.

197.3 - 198.4 Black cherty rock - stringers pyrite, galena.

198.4 - 202.5 Black sandy shale few white quartz stringers mineralized with galena and pyrite.

202.5 - 204.5 Granular very slightly limy rock cherty matrix pyrite crystals

204.5 - 239.3 Fine interbedded black and grey shale, few fine quartz carbonate stringers slight pyrite. Lost core: 207.6 - 208.5

214. - 215 219 - 220 223.3 - 223.8

239.3 - 308 Conglomerate, very slight scattered pyrite parts interbedded grey and black shale.
Lost core: 242.1 - 243.5

End of Hole.

TOM CLAIMS - YUKON

D.D.H. No. 5

Section 78 + COW

0.0 - 23.0 Casing

23.0 - 38.7 Black shale few fine white quartz stringers few specks pyrite.
Lost core: 26.6 - 28.0; 30.0 - 31.3; 31.9 - 32.9; 33.5 - 34.0;
35.0 - 35.3; 36.6 - 37.4; 37.8 - 38.7

38.7 - 66.7 Black shale fine white quartz stringers with pyrite. Sphalerite and
galena. Lost core: 40.0 - 41.4 43.8 - 45.0
45.1 - 45.8 46.0 - 47.3 47.5 - 48.1
48.4 - 49.5 50.0 - 50.8 51.1 - 51.6
52.1 - 52.9 55.0 - 55.5 56.1 - 56.9
57.7 - 58.6 60.0 - 60.6 61.2 - 62.5
62.7 - 63.6 64.2 - 66.7

66.7 - 82.5 Broken black shale few white quartz carbonate stringers slight pyrite.
Lost core: 66.9 - 67.6
68.2 - 68.9 70.0 - 70.4 70.8 - 71.6
72.5 - 73.2 - 74.5 - 75.0 75.6 - 76.5
77.0 - 78.0 78.3 - 78.6 80.0 - 81.0
81.4 - 82.5

82.5 - 83.3 Interbanded grey and black shale. Mineralized with pyrite.

83.3 - 85.9 Hard black shale, slight pyrite and sphalerite few white quartz stringers.

85.9 - 96.9 Lost core.

86.9 - 100.2 Fine hard interbanded greywacke and black shale slight pyrite and
sphalerite.
Lost core: 87.4 - 87.6
95.0 - 95.2 98.3 - 100.2

100.2 - 107.7 Black shale parts with white limy stringers.
Lost core: 102.1 - 103.7 104 - 105
105.7 - 106.0 106.5 - 107.6

D.D.H. No. 5. (cont'd)

107.6 - 116.8 Light colored soft bedded limestone parts well mineralized
with galena and pyrite.
Lost core: 108.1 - 108.5 110.0 - 111.5
113 - 113.6 116.1 - 116.5

116.5 - 127.8 Altered limestone slight fine galena sphalerite and pyrite.
Lost core: 117.8 - 118 123.9 - 125.0
126.0 - 126.8 127.3 - 127.8

127.8 - 200.3 Soft interbanded grey and Black shale slight pyrite and parts
stringers of pyrite greywacke @ 177.
Lost core: 128.4 - 129.5 130.2 - 130.6
131.9 - 133.0 135.0 - 135.7 137.5 - 138.5
139.4 - 140.0 143.5 - 143.9 145.3 - 145.5
166.0 - 166.7 170.9 - 171.4 173.2 - 176.2
176.5 - 177.3 178.2 - 178.8 182.2 - 182.6
185.0 - 185.3 186.3 - 187.9 188.0 - 189.0
189.6 - 190.0 195.4 - 196.1 200.0 - 200.3

200.3 - 212 Black shale, very slight pyrite parts stringers of pyrite.
Lost core: 201.0 - 201.6 202 - 202.5
205.7 - 206.3 207.1 - 207.7 208.7 - 209.2

End of Hole.

TOM CLAIMS - YUKON

D.D.H. No. 6

Section 58 + OOH

0.0 - 18.0

Casing

18.0 - 54

Black shale few white quartz stringers.

Lost core: 8.5 - 22 22.7 - 25

25.4 - 26.4 26.7 - 28.2 30.5 - 31.4

42.0 - 42.8 43.1 - 43.7 44.2 - 45.1

47.0 - 47.7

54 - 86.8

Fine interbedded grey and black shale parts with chert parts
mineralized with galena pyrite.

Lost core 63.5 - 64.2

86.8 - 132.4

Altered limestone; galena and sphalerite parts cherty.

Lost core 92.0 - 93.5 131.4 - 132.4

132.4 - 199.0

Conglomerite occasional parts slight pyrite.

Lost core: 138.3 - 140.8 - 141.7

142.6 - 144.0 146.3 - 147.4

End of Hole.

TOM CLAIMS - YUKON

D.D.H. No. 7

Section 82 + OOH

0.0 - 20.0

Casing

20.0 - 44.3

Black shale few quartz stringers parts slight pyrite.

Lost core: 20.0 - 20.3 20.8 - 21.5

22.0 - 22.8 23.6 - 24.0 27.0 - 28.5

28.0 - 29.0 30.6 - 31.1 32.5 - 33.0

33.4 - 35.0 39.2 - 40.0 43.6 - 44.3

44.3 - 50.5

Interbedded grey and black shale few white quartz stringers slight
visible pyrite and galena. Lost core: 49.8 - 50.0

50.5 - 72.9

Altered limestone slight to well mineralized with galena,
parts grey cherty rock.

72.9 - 243.5

Very fine interbedded grey and black shale parts argillite
parts slight pyrite and pyrite stringers.

Lost core: 112.5 - 113.6 115.0 - 116.0

117.0 - 117.5 137.6 - 138.4 145.3 - 146.0

160.9 - 161.5 191.7 - 192.6 232.5 - 233.0

233.7 - 234.1 238.2 - 239.0 242.8 - 243.5

243.5 - 253.7

Greywacke parts mineralized with pyrite (pyrrhotite?)

Lost core: 243.7 - 244.7 245.5 - 246.7

249.3 - 250.0 253.0 - 253.7

253.7 - 275.0

Greywacke and interbedded grey and black shale, parts slight
pyrite. Lost core:

254.5 - 255.0 261.1 - 261.8 262.5 - 263.2

263.9 - 264.5 267.8 - 268.7 269.2 - 270.0

270.4 - 271.1 271.7 - 272.8 273.4 - 273.9

274.5 - 275.0

275.0 - 300.0

Interbedded greywacke and black shale few pyrite cubes few quartz
carbonate stringers. Lost core: 275.5 - 276.6

277.8 - 278.2 279.1 - 280.0 282.0 - 283.5

286.0 - 287.5 289.4 - 289.8 290.0 - 291.0

292.4 - 293.5 294.4 - 295.0 298.4 - 299.0

End of Hole

TOM CLAIMS - YUKON

D.D.H. No. 8

Section 54 + OOM

0.0 - 36.0

Casing

36.0 - 120.0

Black shale few white warts stringers, pyrite stringers.

Lost core: 38.2 - 39.0

40.0 - 40.7 44.4 - 45.4 46.0 - 47.0

48.6 - 49.3 50.8 - 52.0 55.0 - 55.9

59.0 - 60.8 61.4 - 62.5 63.0 - 64.0

65.0 - 65.7 66.5 - 67.0 68.0 - 69.0

76.1 - 77.1 78.8 - 80.0 80.4 - 81.4

82.0 - 82.5 83.5 - 84.1 85.5 - 86.1

89.0 - 90.0 90.8 - 91.8 97.6 - 93.3

94.0 - 96.0 97.1 - 98.5 100.0 - 100.6

102.1 - 103.6 105.0 - 106.3 107.2 - 108.9

109.0 - 110.0 110.8 - 113.6 113.7 - 119.1

120.0 - 142.8

Conglomerate few quartz stringers parts stringers of pyrite.

Lost core: 121.5 - 122.9

126.6 - 127.2 127.9 - 128.1 128.8 - 129.5

130.0 - 131.0 132.3 - 132.9 - 1 133.4 - 134.6

135.0 - 136.1 139.0 - 140.5 141.7 - 142.8

142.8 - 146.0

Interbanded area and black shale white quartz stringers some pyrite. Lost core: 145.0 - 145.6

146.0 - 175.8

Conglomerate. Lost core:

146.0 - 147.4 - 147.7 - 148.4 149.0 - 150.8

151.1 - 151.5 152.1 - 153.0 153.8 - 155.0

161.6 - 162.5 166.7 - 167.9 172.0 - 172.5

175.8 - 220.0

Grey conglomerate parts leached parts slight scattered pyrite.

Lost core: 178.8 - 180.0 181.0 - 181.3 183.2 - 184.3

184.7 - 186.0 186.4 - 187.1 187.6 - 188.6 189.0 - 190.0

191.2 - 192.1 196.0 - 196.8 199.4 - 200 201 - 201.9

204.2 - 205.0 206.6 - 207.2 209.4 - 210.0 210.8 - 212.1

210.8 - 212.1 213.2 - 214.4 215.0 - 216.2 219.1 - 220.0

End of Hole

TOM CLAIMS - YUKON

D.D.H. No. 9

-35°E

Section 86 + OOM
1 + 02E

0 - 27

Casing

27 - 76.4

Black shale parts shattered parts fine talc stringers very slight scattered pyrite.

Lost core: 32.8 - 33.8 38.5 - 39.5 40.5 - 41

42 - 42.7 58 - 58.6 59 - 60 60.5 - 61.6

64.6 - 65.5 65.9 - 67.2 67.4 - 67.8 68.2 - 68.8

70.8 - 71.7 74.6 - 75 75.7 - 76.4

76.4 - 82.6

Black shale - few bands solid sulphide pyrite.

Lost 77.1 - 77.8; 78.8 - 79.2

82.6 - 83.4

Quartz feldspar porphyry (Dike intrusive - feldspar altered to Kaolin) few quartz eyes, mica flakes, pyrite crystals.

83.4 - 83.7

Quartz - yellow orange to translucent.

83.7 - 84.5

Quartz feldspar Porphyry (Dike Intrusive) with few quartz eyes mica flakes and pyrite crystals.

84.5 - 92.1

Black shale fine white (quartz carbonate) stringers with slight pyrite.

92.1 - 125

Interbanded grey and black shale with fine white quartz carbonate stringers with bands well mineralized to solid pyrite sphalerite - all slightly contorted.

125 - 126.2

Black shale fine bands pyrite, few white quartz carbonate stringers with pyrite galena @ 126.0.

126.2 - 126.8

Black argillaceous shale very slight fine pyrite.

126.8 - 127.3

Quartz porphyry fine mineralized pyrite.

127.3 - 131.8

Black and grey siliceous, Argillaceous shale with fine white quartz carbonate stringers with pyrite, galena.

131.8 - 132.6

Interbanded black and grey siliceous limy rock mineralized galena, pyrite.

132.6 - 133.4

Altered limestone (parts soft mineralized galena, pyrite).

133.4 - 134.1

Grey black limy shale few fine white quartz carbonate stringers.

134.1 - 134.7

Altered limestone slight mineralized galena (broken Core)

134.7 - 135.6

Lost core.

135.6 - 136.1

Altered limestone slight fine mineralized galena, pyrite.

D.P.H. No. 9 (cont'd)

136.1 - 136.8 Lost core.
 136.8 - 138.4 Altered limestone, slight fine galena, pyrite.
 138.4 - 139 Lost core.
 139 - 139.3 Altered limestone slight fine galena pyrite.
 139.3 - 140.6 Lost core.
 140.6 - 140.8 Altered limestone fine pyrite, (broken and ground core.)
 140.8 - 141.4 Lost core.
 141.4 - 141.6 Altered limestone slight fine pyrite.
 141.6 - 142.5 Grey black slightly limy rock few white quartz stringers, very slight fine pyrite.
 142.5 - 145 Lost core.
 145 - 146.2 Banded altered limestone (slightly siliceous) and grey rock, galena visible sphalerite bands.
 146.3 - 146.9 Black cherty rock fine pyrite.
 146.9 - 147.6 Siliceous banded altered limestone, bands galena sphalerite.
 147.6 - 148.1 Black cherty rock few quartz stringers, slight pyrite.
 148.1 - 150.6 Banded grey and black altered limestone (siliceous) fine bands galena, sphalerite.
 150.6 - 150.7 Black hard shale with bleb solid sphalerite.
 150.7 - 193.5 Wide and narrow bands grey and black slightly sericitic shale, bands galena, sphalerite pyrite in quartz, carbonate stringers.
 153.5 - 155 Black cherty rock very slight fine pyrite, bands quartz carbonate with sphalerite.
 155 - 163.1 Black cherty rock bands white quartz carbonate with pyrite sphalerite
 163.1 - 169 Wide-banded black cherty rock and graphitic shale, few white limy stringers with pyrite, visible sphalerite @ 164.9
 169 - 170.9 Lost core:
 170.9 - 195 Grey and black graphitic shale to argillitic shale with white limy stringers and pyrite.
 195 - 195.2 Fine S.S. pyrite. (red tinge sphalerite.)
 195.2 - 212.1 Banded grey and black shale, contorted parts, white limy stringers, slight pyrite.
 212.1 - 212.7 Lost core.

D.P.H. No. 2 (Cont'd)

-3-

212.7 - 214.6 Grey and Black shale and greywacke, slight scattered pyrite
 214.6 - 215.4 Lost core.
 215.4 - 430 Wide banded grey and black shale and greywacke, slight scattered pyrite, few white quartz and quartz carbonate stringers, all contorted. (80° at 300; 80° at 400)
 Lost: 302.2 - 307.8, 304.5 - 305.7, 315 - 316.3, 319.6 - 320.7.
 430 - 452 Grey and Black shale (graphitic to sandy) wide bands white quartz, few vugs and quartz crystals, slight scattered pyrite.
 452 - 563 Grey and black shale, contorted parts, few fine white quartz and talc stringers. Very slight fine pyrite.
 Lost: 452.2 - 452.8 454.5 - 456.1 456.7 - 458
 458.2 - 461.9 462.5 - 463.5 466.5 - 468
 468.7 - 469.5 470. - 471.1 471.4 - 471.9
 472.5 - 473.3 475 - 476.9 477.5 - 478.7
 479.4 - 480 481.1 - 481.9 484.3 - 485
 485.6 - 486.6 487.8 - 489 489.6 - 499.3
 500 - 501.1 501.9 - 507.6 503.2 - 504
 506.8 - 508.2 509.1 - 511 511.6 - 513
 525.2 - 527.4 527.4 - 529.1 529.4 - 530.3
 530.7 - 532.2 532.5 - 533.6 534.7 - 535
 535.2 - 535.7 537.7 - 538.8 539.4 - 540
 540.6 - 541.5 543.5 - 544.4 545 - 545.5
 546.1 - 547.2 547.5 - 547.9 548.3 - 549
 549.5 - 551 551.3 - 552.8 553 - 544.9
 555 - 556.3 556.4 - 557.1 557.3 - 559.4
 560.6 - 560 561 - 562.2

End of Hole

TOM CLAIMS - YUKON

D.D.H. No. 10

-35°E

Section 66 + OOH
3 + 33W

0 - 22 Casing

22 - 74.3 Black and grey shale (scattered parts) few fine white talcy stringers and quartz stringers, slight scattered pyrite.

Lost core: 25 - 26.5, 41.1 - 42.2, 50 - 50.7, 65.2 - 67

74.3 - 74.5 Solid sulphite pyrite, white quartz on both edges.

74.4 - 75 Black shale with bands white quartz slight pyrite, slightly leached.

75 - 257.2 Black slightly graphitic shale, few very fine white bands (quartz carbonate) parts slightly contorted with slight pyrite, few white quartz stringers, few linch stringers S.S. pyrite (check assay at 74.3) few blebs pyrite.

Lost core: 83.2 - 85 88 - 90 90 - 90.5
99 - 101 102 - 103.5 103.6 - 105 108.9 - 110.7
125.7 - 126.7 133.4 - 134 160.3 - 163.9 179.1 - 180
199.3 - 200 224 - 225 233.9 - 234.5 236.1 - 237
241.1 - 241.9 249.7 - 250 256.1 - 256.5 257.1 - 257.6

199.3 - 2 Banded altered limestone, few bands cherty rock galena sphalerite.

257.2 - 299 Lost core.

299 - 300 Banded altered limestone, few bands cherty rock - pyrite galena sphalerite

300 - 309.5 Lost core.

309.5 - 310.4 Banded altered limestone, few bands cherty rock - pyrite galena sphalerite

310.4 - 311.7 Lost core.

311.7 - 313 Altered limestone slight galena, pyrite.

313 - 313.7 Lost core.

313.7 - 315 Altered limestone - grey cherty rock slight galena, pyrite.

315 - 316 Lost core.

316 - 316.4 Banded altered limestone, slight galena, pyrite.

316.4 - 319.1 Lost core.

319.1 - 320 Banded altered limestone, slight fine galena pyrite.

320 - 332 Lost core.

332 - 335 Altered limestone with galena bands black cherty rock.

335 - 340.5 Lost core.

340.5 - 344

D.D.H. No. 10, (cont'd)

- 2 -

344 - 347.9 Altered limestone with galena sphalerite bands black cherty rock.

347.9 - 348.9 Black slightly cherty rock, scattered galena slight pyrite.

348.9 - 349 Banded altered limestone near solid galena.

349 - 349.6 Black slightly cherty rock, galena fine pyrite.

349.6 - 351.6 Banded grey and black cherty rock galena, slightly quartzitic, visible sphalerite.

351.6 - 352.6 Lost core.

352.6 - 353.5 Fine banded grey and black cherty rock with galena pyrite, few fine quartz stringers.

353.5 - 358.3 Grey and black rock, slight galena slight to well mineralized pyrite fine quartz stringers.

358.3 - 359.3 Lost core.

359.3 - 361.3 Black cherty rock, slight fine galena, pyrite, fine quartz stringers.

361.3 - 362.6 Lost core.

362.6 - 366.5 Black argillitic shale few fine white stringers slight to well mineralized pyrite, slight visible galena.

366.5 - 367.4 Lost core.

367.4 - 420 Black and grey shale and greywacke few fine white stringers, slight scattered fine pyrite few bands pyrite.

Lost core: 370.3 - 371.6 372 - 373.1 373.2 - 374.1
374.4 - 375 375.4 - 375.7 376.5 - 376.9
383.2 - 384.6 397.1 - 398

End of Hole.

TOM CLAIMS - YUKON

D.D.H. No. 11

-35°

Section 90 + 00N
1 + 85E

0 - 15 Casing
15 - 31 Shattered black shale few white quartz stringers.
31 - 50 (Yellow-white) quartz feldspar porphyry (dike intrusive) very few quartz eyes. Few specks muscovite. Shattered.
50 - 75 Black shale - shattered. Few white quartz carbonate stringers.
Lost core: 51.2 - 51.8 52.9 - 55 55.2 - 56
56.5 - 57.3 59.1 - 60.4 61 - 61.4 62 - 62.8
69.5 - 70 71.3 - 72.1 73.7 - 75
75 - 100.7 Crumbly black (shale?) (ground to snad) Little pyrite.
Lost: 75.4 - 77.3 78.1 - 80.5 86.3 - 88 92.5 - 93.6
94.2 - 95 95.5 - 96.4 97.4 - 98.6 99 - 100.7
100.7 - 130.4 Grey and black shale, graphitic to sandy. Very few fine white quartz stringers. Slight fine scattered pyrite.
130.4 - 130.5 Solid sulphide pyrite.
130.5 - 135.9 Shattered grey sandy shale.
Lost core: 131.3 - 132.7 133.5 - 134.5
135.9 - 142.6 Quartz feldspar porphyry (dike intrusive) few flakes mica.
142.6 - 152.5 Black & grey shale (banded) few fine white (quartz?) stringers.
Lost core: 144 - 145, 146.5 - 148.6
149.3 - 150.4 150.5 - 150.9 151.5 - 152.3
152.3 - 197.8 Quartz feldspar porphyry (Dike Intrusive) few muscovite flakes
few hard black shiny crystals in white quartzs.
197.8 - 198 Conglomerate chert & quartz.
198.1 - 199.5 Lost core.
199.5 - 207 Conglomerate

End of Hole.

TOM CLAIMS - YUKON

D.D.H. No. 12

0 - 35

Casing

35 - 42.2 Black shale and conglomerate boulders. (tertiary)
42.2 - 116.5 Grey and black shale with few fine white stringers and few bands white quartz, very slight scattered pyrite. few blebs solid pyrite.
116.5 - 125.5 Conglomerate mineralized pyrite.
125.5 - 140.6 Grey and black shale, few folds, quartz carbonate stringers slight pyrite.
140.6 - 249 Conglomerate few bands black shale pyrite in parts (cube galena @ 202.2)
Lost core: 178 - 179.8 209.2 - 210 222.8 - 225.5
237.6 - 240 241.2 - 242.4
249 - 274.3 Grey and black shale slightly folded and contorted, few small bands conglomerate, slight pyrite.
274.3 - 275 Lost core.
275 - 276.7 Grey and black shale.
276.7 - 277.3 Lost core.
277.3 - 278.3 Black graphitic shale.
278.3 - 295 Banded, slightly contorted grey and black shale and conglomerate very slight pyrite.
Lost core: 341 - 342.9; 349.3 - 350; 371 - 373.8; 375 - 377.7.
377.7 - 379 Greywacke slight pyrite, few limy stringers.
379 - 383.3 Grey and black shale few limy stringers, very slight pyrite.
383.3 - 385 Lost core.
385 - 391.1 Black cherty rock, few fine limy stringers, slight to well mineralized pyrite.
391.1 - 391.7 Lost core.
391.7 - 392.3 Black cherty rock limy stringers with pyrite.
392.3 - 392.5 Disseminated galena in black cherty rock. Limy stringers. Slight pyrite.
392.5 - 393.5 Cherty black rock. Few limy stringers, slight fine pyrite
393.5 - 395 Lost core.
395 - 396.5 Black cherty rock few bands grey quartzite with pyrite. Few limy stringers.

P.D.H. No. 12 (cont'd)

396.5 - 410.6 Grey quartzite well mineralized to near solid pyrite few limy stringers, few white quartz bands, slight scattered chalcopyrite (Sphalerite)

410.6 - 410.9 Near solid galena.

410.9 - 420.2 Grey quartzite few quartz and limy stringers slight pyrite few parts well mineralized chalcopyrite (sphalerite?)

420.2 - 420.4 Near solid galena

420.4 - 425 Grey quartzite few limy stringers and quartz bands mineralized pyrite, slight chalcopyrite a few cherty bands slight galena sphalerite.

425 - 433.8 Disseminated to solid galena some sphalerite and pyrite few bands chert and quartz.

433.8 - 439.5 Near solid pyrite. (few black, hard, shiny crystals)

439.5 - 441.6 Near solid to solid pyrite limy stringers with (barite?) slight sphalerite, galena.

Lost cores: 437.8 - 440.

440 - 487.3 Near disseminated galena and sphalerite in grey quartzite some pyrite - cherty bands.

Lost cores: 447 - 450 452.6 - 453.9 - 461.2 - 462.7 462.9 - 464 470 - 471.

487.3 - 524.5 Altered limestone slightly banded with galena few cherty bands.

Lost cores: 497.1 - 499.6 503 - 505 506.2 - 507 510 - 511.1 517.1 - 518.2

524.5 - 539.3 Banded limy rock (grey, brown) with cherty and black argillaceous shale with galena pyrite. Few bands solid galena sphalerite.

539.3 - 635 Black argillaceous to graphitic shale, few fine pyrite stringers, few fine white quartz carbonate stringers.

Lost cores: 544.6 - 545 583.3 - 585 597.4 - 598.3 604 - 605.6 612.5 - 615

End of Hole

TOM CLAIMS - YUKON

P.D.H. No. 13

-35° East

Section 90 + JON
0 - 244

0 - 25 Casing

25 - 34 Conglomerate (Tertiary) Lost core: 27.5 - 28.5; 32.2 - 33

34 - 44.4 Black shale (oxidized edges)

44.4 - 45 Quartz Feldspar Porphyry (Dike Intrusive) few mica flakes

45 - 46.1 Lost

46.1 - 48 Quartz feldspar porphyry (Dike Intrusive) few mica flakes and quartz eyes.

48 - 74.5 Black & Grey shale - shattered

Lost 51 - 51.6; 52.1 - 52.5; 53.4 - 55

74.5 - 125.2 Quartz feldspar porphyry few mica flakes.

125.2 - 141.2 Grey & black shale contorted slight pyrite.

141.2 - 145 Lost 125 - 125.7; 134.4 - 136.5 ; 139.2 - 140

141.2 - 145 White quartz with black shale.

Lost 143 - 144.2

145 - 146.9 Conglomerate. Slight pyrite.

146.9 - 190.2 Black & grey shale contorted slight pyrite few bands greywacke slight sphalerite @ 189.

Lost 147.2 - 148; 154.3 - 155; 157.2 - 158; 166 - 166.6; 170.7 - 171.2

190.2 - 190.3 Black shale quartz carbonate stringers with Zn.

190.3 - 197 Black shale few white limy stringers with pyrite.

197 - 211 Black & grey shale & greywacke (contorted, graphitic) few line bands pyrite.

211 - 211.2 Solid sulphide pyrite (bleb) fine, hard.

211.2 - 214.3 Greywacke, few white Quartz stringers slight pyrite.

214.3 - 215.5 Black and Grey shale to argillite.

215.5 - 251 Black and grey argillaceous shale to black cherty rock., Slightly contorted few fine white bands quartz carbonate with pyrite (sphalerite)

251 - 280.4 Black & grey shale few fine bands quartz carbonate and well mineralized sphalerite pyrite.

280.4 - 316 Black & grey shale few quartz carbonate bands with pyrite.

Lost: 296.5 - 298; 300.2 - 301.2; 304 - 305.5; 307.7 - 308.7; 314 - 315

End of Hole

TOM CLAIMS - YUKON

D.P.H. No. 14

-35°

Section 100N
1 + 74 West

0 - 30	Casing
30 - 50	Black Shale - Shattered. Lost: 32.7 - 33.3; 33.7 - 34.2; 37.1 - 38.2; 40.6 - 40.8; 42.8 - 44; 45 - 45.5; 46.7 - 47.4; 48.5 - 49.6.
50 - 51.4	Lost core.
51.4 - 53.9	Black (slightly sandy) shale. Slight pyrite.
53.9 - 54	Solid sulphide pyrite.
54 - 71.4	Black shale very few white stringers, very slight pyrite.
71.4 - 71.5	Solid sulphide pyrite.
71.5 - 71.6	Black shale slight pyrite.
71.6 - 74	Lost core
74 - 74.4	Black grey sandy shale slight pyrite.
74.4 - 74.6	Solid sulphide pyrite some white quartz.
74.6 - 100	Black graphitic to slightly sandy shale slight pyrite. Lost: 75 - 76.1; 77.2 - 78.5; 79 - 80; 80.8 - 81.6; 82.2 - 82.8; 84 - 86.1; 87 - 88; 89 - 90; 91 - 92; 93 - 93.5; 99 - 100
100 - 125	Broken black shale and fine black sand (ground core) slight pyrite in few pieces.
lost	Lost: 100.6 - 101.2; 102.7 - 103; 103.5 - 104.8; 105 - 106.2; 117.7 - 118.8; 120 - 121.
125 - 254.5	Black and grey slightly graphitic shale and grey sandy shale, very slight pyrite parts contorted solid sulphide pyrite @ 151.2 - 151.6. Lost core: 133.7 - 135 126.6 - 130 131.6 - 132.2 142.7 - 143.5 136 - 138.2 139.1 - 142.4 144 - 145.7 150 - 150.5 151.6 - 153 154.4 - 157 161 - 162.2 165.1 - 165.4 165.5 - 166.2 167.6 - 169.1 176.3 - 177.7 172.3 - 173.6 185 - 186.2 187 - 187.5 190 - 191 187.5 - 188.2 209.3 - 211 194.1 - 195 217.3 - 218.6 201.8 - 203 230 - 231.5 212.5 - 213.7 236.1 - 236.8 220 - 221 240.5 - 242.5 225.9 - 226.9 246.1 - 246.8 233.3 - 234.8 238 - 239 235 - 236 242.6 - 244 239.5 - 240 248.4 - 250 244.4 - 245 252 - 253.1

D.P.H. No. 14

(cont'd)

- 2 -

254.5 - 254.7	Black and grey shale blebs cherty rock nearly solid pyrite.
254.7 - 266.8	Grey and black shale and greywacke - parts contorted slight pyrite. Lost core: 255. - 256; 258.6 - 260; 263.6 - 265
266.8 - 267	White quartz with black shale very slight pyrite.
267 - 280	Grey and black shale and greywacke - parts contorted slight pyrite. Lost core: 267.9 - 268.6; 270.2 - 271; 271.8 - 272.8; 273.6 - 276.2; 277.9 - 278.5
280 - 281.3	Lost core.
281.3 - 282	Fine conglomerate? (Grey to black cherty rock graphite - slight pyrite)
282 - 283	Lost core.
283 - 284	Fine conglomerate
284 - 284.9	Lost core.
284.9 - 285	White quartz. Slight chalcopyrite.
285 - 285.8	Lost core.
285.8 - 286.6	Conglomerate slight fine pyrite.
286.6 - 287.8	Lost core.
287.8 - 288.5	Conglomerate
288.5 - 289.8	Lost core.
289.8 - 290	Conglomerate with white quartz stringer, no visible mineral
290 - 291	Lost core.
291 - 291.9	Black & grey shale parts contorted, slight pyrite.
291.9 - 292.5	Lost core
292.5 - 293	Black and grey shale parts contorted slight pyrite.
293 - 293.1	Solid sulphide pyrite (fine grained - Hard) with fine quartz stringers
293.1 - 296	Black and grey shale. Lost 294.5 - 295.6
296 - 296.6	Lost core
296.6 - 298	Fine conglomerate slightly leached Lost 297 - 297.6
298 - 298.2	Black graphitic shale

D.D.H. No. 14 (cont'd)

- 3 -

298.2 - 299.2 Lost core.

299.2 - 302.5 Black and grey shale & conglomerate, very slight pyrite (broken pieces)

Lost 300.7 - 301.6

302.5 - 305 Black shale & conglomerate slight fine pyrite.

305 - 322.4 Black shale - massive sandy to graphitic fine pyrite.
Lost 308.4 - 309.3, 320.7 - 321.6

322.4 - 322.5 Black shale. Stringers pyrite and quartz - carbonate.

322.5 - 395 Black shale parts massive, parts graphitic, fine pyrite and pyrite stringers & few fine quartz carbonate stringers.
Lost: 323.8 - 325, 330.9 - 331.2, 335.9 - 336.5, 346.9 - 341.5, 342.7 - 343.6, 345 - 346.3, 347.6 - 348.5, 352.4 - 353.1, 353.7 - 354.3, 355 - 355.8, 356.5 - 357.2, 363.1 - 362, 366 - 366.6, 384.2 - 285.

395 - 395.2 White quartz (vein) in black shale

395.2 - 402.5 Black and grey shale with slight pyrite parts fine banded, parts slightly contorted.

402.5 - 413 Conglomerate, slight pyrite.
Lost: 402.7 - 403.2, 411.1 - 411.8, 412 - 412.5

413 - 426 Black and grey shale, slight pyrite, few fine white quartz carbonate stringers, parts massive black shale.

426 - 427 Lost core.

472 - 426.6 Grey and black shale, few pyrite stringers.

427.6 - 428.8 Lost core.

428.8 - 429.1 Black shale, slightly graphitic, pyrite stringers.

429.1 - 430 Lost core.

430 - 430.2 Black graphitic shale, slight pyrite.

430.2 - 430.4 Black grey hard shale, slightly brecciated and quartz filled, slight sphalerite, pyrite.

430.4 - 430.8 Black and grey shale, slightly graphitic, slight pyrite.

430.8 - 432.5 Lost core.

432.5 - 434.1 Fine banded grey and black shale (slightly graphitic) parts contorted, few quartz veins with slight pyrite (sphalerite?)

434.1 - 435 Lost core.

435 - 437 Black and grey shale, slightly brecciated and quartz filled, few fine white stringers, slight pyrite, (sphalerite in fine stringers)

D.D.H. No. 14 (cont'd)

- 4 -

437 - 438.7 Lost core

438.7 - 439.2 Black and grey shale (broken) slight pyrite (fine) stringer Ry in quartz (sphalerite?)

439.2 - 440.6 Lost core.

440.6 - 440.8 Black and grey shale - slightly brecciated and quartz filled, slight fine pyrite. Specks sphalerite

440.8 - 441.2 Black graphitic shale, slight pyrite.

441.2 - 442.1 Lost core.

442.1 - 442.8 Black and grey shale, few fine white stringers (quartz carbonate?) slight fine pyrite, parts slight sphalerite.

442.8 - 443 Near solid to solid pyrite with white quartz stringers.

443 - 444.6 Lost core.

444.6 - 445 Black sandy shale with fine pyrite $\frac{1}{2}$ " pyrite speck sphalerite)

445 - 446.3 Lost core

446.3 - 447.2 Black (graphitic to sandy) shale - slight fine pyrite.

447.2 - 448.7 Lost core.

448.7 - 449.6 Black (graphitic to sandy) shale - slight fine pyrite

449.6 - 454 Lost core.

End of Hole.

TOP CLAIMS - YUKON

D.D.H. No. 15

-35° west

Section 54 + OOH
0 + 24W

- 0 - 71 Casing (through tertiary Conglomerate & grey shale) with slight pyrite.
- 30 - 31.5 Nearly solid pyrite.
- 31.5 - 48.5 Grey and Black Shale and Greywacke. Slight scattered pyrite.
L.C. 35.7 - 37.1, 37.8 - 39.3, 40 - 41.2, 41.5 - 42.8, 43.1 - 44.3, 45 - 45.4.
- 48.5 - 49.1 White Quartz. Black shale stringers.
- 49.1 - 50 L.C.
- 50 - 75 Conglomerate and greywacke wide bands white quartz slight pyrite.
Lost core: 50 - 50.4, 51 - 52.7, 52.9 - 53.1, 53.2 - 55, 58 - 60, 64-65, 69 - 70.
- 75 - 150 Black shale parts blacky, parts shattered, few narrow white quartz bands 1/2" pyrite @ 93.4.
Lost core: 75.4 - 76, 77.2 - 78.2, 78.8 - 80, 80.3 - 81.7, 82.1 - 83.5, 85 - 86.3, 88 - 89, 90 - 90.6, 92 - 92.7, 97 - 98.3, 100 - 101, 103.8 - 104.4, 108.1 - 109.8, 118 - 119, 123.2 - 123.9, 126.3 - 127.1, 127.6 - 128.4, 131.1 - 132, 133.5 - 135, 136.2 - 137.6, 139.4 - 141.4.
- 15 - 208.1 Black slightly graphitic hard shale, Slight pyrite, few fine quartz carbonate and pyrite stringers.
Few bands and blebs pyrite. (70° @ 200)
Lost core 155 - 156.5
- 208.1 - 208.5 Nearly solid pyrite in black shale.
- 208.5 - 227 Hard grey black shale, few bands quartz carbonate with pyrite.
Lost: 223.6 - 225, 225.2 - 226.9
- 227 - 250 Black and grey slightly graphitic shale - contorted parts. White quartz and (quartz carbonate) few bands and scattered slight pyrite.
Lost: 227.3 - 229.1 - 230.3 - 232.5, 237. - 238.7, 245 - 246, 246.5 - 247.7, 248.5 - 249.4
- 250 - 251.3 L.C.
- 251.3 - 351.5 White quartz parts broken.
- 251.5 - 259.4 Black greyshale parts slightly contorted with white quartz carbonate stringers, slight pyrite.
Lost: 255 - 256.1
- 259.4 - 320 Black and grey slightly graphitic to slaty shale

D.D.H. No. 15 (cont'd)

- 320 - 326.1 Black & grey shale numerous white quartz and quartz carbonate stringers, slight pyrite.
- 326.1 - 351 Black shale very few quartz carbonate stringers with slight pyrite.
Lost: 334 - 336, 340 - 342.1, 343.7 - 346.
- 351 - 398 Black and grey shale white quartz carbonate stringers, parts contorted and small folds and faults, slight pyrite few pyrite stringers.
Lost: 362 - 363, 365 - 367, 371 - 373, 375 - 376.1, 378.6 - 380, 381.4 - 382.9, 386 - 387.5, 393.2 - 394.2.
- 398 - 453.4 Black shale (slightly graphitic) very slight pyrite, very few white quartz carbonate stringers with slight pyrite.
Lost: 439.2 - 440.6, 442 - 443, 443.8 - 445, 445.7 - 447, 449 - 450, 450.6 - 452.
- 453.4 - 456 Black slightly graphitic shale, numerous white quartz carbonate stringers with slight pyrite. Contorted.
- 456 - 472 Black shale, very few white quartz carbonate stringers slight pyrite.
- 472 - 475 L.C.
- 475 - 492 Black shale few white quartz carbonate stringers.

End of Hole

TOM CLAIMS - YUKON

D.D.H. No. 16

-40°E

Section 66 : OOW
4 : 80W

0 - 25	Casing
25 - 27	Tertiary conglomerate
27 - 75.7	Black shale (slightly graphitic) few talcy stringers & few $\frac{1}{2}$ " stringers pyrite in quartz carbonate. 75.7 - 76
75.7 - 76	Nearly solid pyrite in black sandy shale - slightly contorted
76 - 99.5	Black shale (slightly graphitic) stringers pyrite in quartz carbonate and talc.
99.5 - 99.8	Slightly banded black grey shale - well mineralized to near solid pyrite.
99.8 - 151.5	Black shale (slightly graphitic) fine pyrite mineralization with few stringers quartz carbonate, few talcy stringers.
151.5 - 152.3	Black shale, quartz carbonate stringers with slight sphalerite pyrite.
152.3 - 152.6	Black shale.
152.6 - 153.0	Solid sulphide pyrite
153.0 - 156.5	Black shale very few fine white stringers, slight pyrite
156.5 - 160	Black shale numerous white quartz veins, parts contorted, slight pyrite
160 - 162	Black shale - slight pyrite.
162 - 162.5	Black shale quartz carbonate veins with pyrite - contorted
162.5 - 176.8	Black shale very few narrow quartz carbonate stringers, with pyrite.
176.8 - 177.6	Black shale numerous quartz carbonate stringers slightly faulted and contorted.
177.6 - 206.1	Black shale, very few white quartz carbonate stringers with slight fine pyrite, few blebs solid pyrite (70° - 80° @ 200)
206.1 - 206.2	White quartz
206.2 - 273	Hard black shale with white quartz veins & quartz carbonate stringers with slight pyrite. Lost: 209.3 - 211.6, 212.3 - 213.5, 214.2 - 215, 215.7 - 216.7, 218 - 219.3, 220 - 220.6, 221.3 - 222.7, 224.4 - 225.8, 226.3 - 226.7, 227.3 - 228, 228.5 - 229.3, 230.2 - 230.6, 232.2 - 232.7, 233.3 - 233.8, 235 - 235.7, 249 - 250.
273 - 280.8	Hard black shale fine white stringers (quartz carbonate?) slightly contorted, slight pyrite.
280.8 - 281.2	Hard black shale white quartz carbonate stringers with sphalerite, very slight pyrite.

(2)

D.D.H. No. 16 (cont'd)

281.2 - 283.5	Hard black shale few fine white stringers with pyrite.
283.5 - 290.8	Hard black shale with bands of fine interbanded grey and black shale, quartz carbonate stringers with sphalerite, slight pyrite.
290.8 - 299	Fine hard interbanded grey and black shale, parts limy, (altered shale) fine mineralization Galena, slight visible sphalerite, slight pyrite.
299 - 336	Fine hard interbanded grey and black shale and limy stringers (altered limestone) parts folded and contorted. Mineralization fine galena, pyrite, sphalerite (65° @ 300')
336 - 350	Fine interbanded grey and black shale, some parts brown carbonate rock, parts soft and leached. Fine mineralized galena? pyrite. Lost: 337.2 - 338, 339 - 340.5, 342.1 - 343.3
350 - 400	Altered limestone (fine interbanded grey & black rock - parts brown carbonate rock, parts limy, parts soft and leached) fine mineralized galena? pyrite. Lost: 352.1 - 353, 353.8 - 354.6, 355.3 - 356.5, 357.3 - 358.7, 359.4 - 360, 360.5 - 361.2, 362.3 - 363.6
400 - 428.7	Altered limestone few bands black chert, mineralized galena, pyrite parts visible sphalerite (80° @ 400')
428.7 - 429.2	Hard grey black fine grained rock, limy fractures, slight fine mineralized pyrite.
429.2 - 432.2	L.C.
432.2 - 433	Hard grey black fine grained rock mineralized to nearly solid pyrite limy fractures.
433 - 433.4	Fine interbanded grey and black shale & quartz carbonate, fine mineralized galena pyrite,
433.4 - 433.9	Hornfels - fine mineralized pyrite.
433.9 - 436.6	Interbanded grey and black shale & white quartz carbonate - bands hornfels, slight pyrite, galena.
436.6 - 498.6	Hornfels - parts slightly graphitic shale, stringers white quartz carbonate, slight fine bands pyrite, few bands pyrite. Lost: 447.1 - 447.7, 449 - 450, 480.6 - 482, 484 - 485, 485.2 - 485.5, 491 - 492, 492.6 - 493.6, 495 - 497.2
498.6 - 500	L.C.
500 - 506	Black sandy shale, slight pyrite. (80° @ 498) (Sand in hole - too much water in hole to cement)

End of Hole

TOM CLAIMS - Yukon

R.D.R. No. 17

-65°E

Section 58 + 00N
2 + 27N

0 - 17 Casing

17 - 34 Graphitic Balck Shale, parts broken, few white Quarts stringers slight fine pyrite.
Lost: 23.4 - 24.4, 25.8 - 26.1, 27.4 - 27.9, 28.7 - 30

34 - 37 Grey and black shale slightly contorted with many fine (quartz carbonate?) stringers & few pyrite stringers

37 - 120 Black shale, few fine white quartz carbonate stringers, slight scattered pyrite & few pyrite stringers & blebs. (1" pyrite @ 90.6) (75° @ 100')
Lost: 40.5 - 46.5, 47 - 48.1, 49.6 - 50, 57 - 58.1, 65 - 66, 105.8 - 106.5, 109.1 - 110, 116.9 - 117.5

120 - 152.7 Hard black shale (Hornfels?) slight fine pyrite, few white stringers

152.7 - 152.9 Very fine banded grey & black silicious rock, well mineralized galena, and pyrite.

152.9 - 163.7 L.C.

153.7 - 156.7 Very fine banded, hard, grey and black silicious rock well mineralized galena, pyrite.

156.7 - 159.4 Very fine banded grey and black limy rock, mineralized galena, pyrite.

159.4 - 159.6 Black hard cherty rock (hornfels?) slight fine pyrite.

159.6 - 161 Fine banded grey and black limy rock, well mineralized pyrite, galena

161 - 166.7 Fine banded grey and black slightly silicious rock well mineralized galena, pyrite.

166.7 - 168.1 L.C.

168.1 - 170 Fine banded grey and black slightly silicious rock well mineralized galena & pyrite.

170 - 171 L.C.

171 - 172.3 Fine banded grey & black slightly silicious rock, mineralized galena, pyrite.

172.3 - 173.5 Hard Black rock (hornfels) slight fine pyrite, few fine white stringers.

173.5 - 175 Fine banded grey and black limy rock (altered Limestone) galena, pyrite.

175 - 192.5 Fine banded grey and black altered limestone, few bands chert, Mineralized galena, pyrite.

- 2 -

192.5 - 199.5 Altered limestone few bands chert, parts disseminated galena, slight pyrite.

199.5 - 221.5 Disseminated galena in altered limestone (grey brown limy rock) slight pyrite (65° @ 200')

221.5 - 222.5 Grey, brown cherty rock with limy fractures, very slight fine pyrite.

222.5 - 237.5 Altered limestone well mineralized to solid galena, slight pyrite.

237.5 - 238.5 Black cherty rock, slight galena, pyrite.

238.5 - 240.2 L.C.

240.2 - 241.5 Grey black cherty rock (parts leached) well mineralized to solid galena, pyrite.

241.5 - 242 Black chert, very slight fine pyrite, specks galena.

242 - 242.6 Near solid to solid galena, sphalerite, pyrite.

242.6 - 243.5 Black cherty rock - parts crumbly.

243.5 - 244.7 L.C.

244.7 - 245.2 Black chert, very slight fine galena, pyrite.

245.2 - 246 Chert, parts solid sulphide galena, sphalerite.

246 - 247.5 Black cherty rock with numerous small calcite crystals very slight fine pyrite.

247.5 - 247.9 Black cherty rock with small calcite crystals galena, pyrite.

247.9 - 250.4 Black cherty rock with small calcite crystals very slight fine pyrite

250.4 - 253.1 Near solid to solid pyrite, galena, contorted graphitic bands, parts quartz filled.

254.1 - 265. Black graphitic to hard, shale, parts well mineralized pyrite, slight galena.

265 - 279.5 Hard black shale, few fine stringers quartz carbonate, slight pyrite parts cherty.
Lost: 273 - 275, 277.8 - 278.4

279.5 - 282.1 Conglomerate, slight pyrite, galena?

282.1 - 283.3 L.C.

283.3 - 317 Conglomerate few specks pyrite. Chalcoppyrite?
Lost: 290.5 - 291.5

End

TOM CLAIMS - YUKON

D.D.H. No. 18

-50°E

Section 56 + 00W
1 + 92W

0 - 22

Casing

22 - 139.7

Black shale (slightly graphitic, slightly shattered) slight fine pyrite and few blebs pyrite.

Lost: 33.5 - 36.4, 40 - 41, 43.4 - 44.2, 47.4 - 48.4, 49.2 - 50.6, 53.3 - 54, 61.5 - 62.3, 69 - 70, 74.2 - 75, 80 - 81.7, 86.8 - 87.3, 138.5 - 140.6.
(70° ± 110)

139.7 - 139.8

Fine banded pyrite in hard black shale

139.8 - 140

Hard black slightly graphitic shale.

140 - 142.8

L.C.

142.8 - 145

Hard black shale.

145 - 149

L.C.

149 - 150.8

(Pieces) fine interbanded grey black slightly limy rock, well mineralized with galena, sphalerite, pyrite.

(Note: Much of this & following section was ground. There was much cave and too much water to cement.)

150.8 - 153.8

L.C.

153.8 - 153.9

(Pieces) altered limestone - slight fine galena sphalerite.

153.9 - 160

L.C.

160 - 160.5

Altered limestone slight galena pyrite.

160.5 - 162.1

L.C.

162.1 - 164

Altered limestone slight to well mineralized with galena

164 - 166.1

L.C.

166.1 - 170

Altered limestone bands solid galena

170 - 172.7

L.C.

172.7 - 176.5

Disseminated galena in altered limestone

176.5 - 178.5

L.C.

178.5 - 179.3

Disseminated Galena slight sphalerite in schisted grey black altered limestone and shale.

179.3 - 180

(Broken pieces) Hard grey black sandy shale white quartz veins, fine pyrite.

180 - 181.1

L.C.

- 2 -

D.D.H. No. 18 (cont'd)

181.1 - 181.7

Grey black shale, bands graphitic, part green talc, slight mineralized with pyrite.

181.7 - 182.1

Near solid to solid sulphide galena sphalerite.

182.1 - 182.5

White quartz veins in slightly altered black shale, slight pyrite, chalcoppyrite.

182.5 - 186

Greywacke, very slight fine pyrite few talcy fractures.

186 - 187

Slightly contorted graphitic shale, fractures calcite filled, slight pyrite

187 - 187.3

(Mud) Black shale - ground core.

187.3 - 189

L.C.

189 - 195.2

Greywacke to hard black shale, few stringers quartz carbonate, slight pyrite.

195.2 - 196.7

Fine conglomerate slight pyrite,

196.7 - 240.5

Coarse banded grey and black shale and greywacke, slight fine pyrite and veins solid sulphide pyrite.

240.5 - 248

Coarse conglomerate very slight pyrite.

248 - 249.5

Fine conglomerate (quartzite?) very slight fine pyrite.

249.5 - 255

Conglomerate slight fine pyrite.

255 - 255.5

White quartz, slight pyrite.

255.5 - 275

Conglomerate (parts chert parts graphitic shale) slight fine pyrite.

Lost: 259. - 260.6, 262 - 263.5, 263.6 - 265, 266.7 - 267.3.

End of Hole.

TOM CLAIMS - TUKOH

D.D.E. No. 12

-40°E

Section 6
 1/8 + 00N
 4 + 60W

0 - 25

Casing

25 - 152

Hard to slightly graphitic black shale few white quartz carbonate stringers slight pyrite, few pyrite veins, (100' @ 75°)

Lost: 28.5 - 30, 30.5 - 31.8

152 - 285.9

Black black graphite shale few quartz veins, parts slightly contorted, slight pyrite.

Lost: 153.1 - 154.4, 161.6 - 163, 163.8 - 164.5, 165.8 - 166.8, 168.5 - 169.3, 171.8 - 172.6, - 181.7 - 182.6, 196.5 - 197.5, 201 - 201.6, 204 - 206.1, 211 - 212.8, 215 - 216.1, 217.1 - 218.2, 219.4 - 220.4 - 222.5, 224 - 225, 225.6 - 226.4, 232.5 - 233, 241.2 - 241.8, 246 - 247, 251.5 - 252.5, 254.4 - 255, 256 - 257.2, 259 - 260, 261 - 261.5, 262.2 - 267.3 - 269.3, 270 - 271, 271.6 - 272.8, 273.6 - 275.7

259

285.9 - 286

Solid sulphide pyrite very fine white quartz veins.

286 - 315

Hard black shale slightly graphitic - slight fine pyrite few quartz carbonate stringers.

Lost: 287 - 288.4, 301.3 - 302, 303 - 303.7, 306.8 - 307.4, 308.4 - 309, 311 - 311.8

315 - 329

Hard black shale, numerous quartz carbonate stringers, parts contorted slight pyrite sphalerite.

329 - 339.5

Altered shale (interbanded slightly contorted grey and black slightly limy rock) parts visible sphalerite galena, slight pyrite.

339.5 - 340.5

White limy veins with slight grey and black shale, slight galena

340.5 - 350

Fine interbanded slightly contorted grey and black limy rock, slight sphalerite pyrite.

350 - 380

Altered limestone (schisted grey black & brown limy rock) mineralized with galena sphalerite pyrite.

370 - 371

Two inch band white crystalline limestone in hard black rock very slight galena.

371 - 422.1

Altered limestone (grey brown) mineralized galena sphalerite, pyrite. (80° @ 400')

Lost: 377.2 - 378.2, 381 - 381.9, 383.2 - 383.7, 386.6 - 387.7, 389.4 - 390.6, 402.5 - 403.2, 404.2 - 404.7, 405.0 - 405.5, 407.1 - 407.7, 409 - 410.2, 411.1 - 411.8, 412.7 - 413.4, 414.4 - 415.6, 416.8 - 417.4, 417.9 - 418.9, 419.2 - 419.9, 420 - 420.8, 421.1 - 422.1

- 2 -

422.1 - 422.9

(pieces) Hornfels (?) and grey black fine interbanded sandy shale. Slight pyrite, slightly limy.

422.9 - 424

L.C.

424 - 424.4

Altered shale with one inch fine banded pyrite.

424.4 - 425

L.C.

425 - 425.1

Solid sulphide pyrite.

425.1 - 425.4

White quartz stringers with black shale, very slight galena, pyrite.

425.4 - 425.8

Schisted white limy rock & black shale, fine pyrite, galena

425.8 - 426.4

(Mud) near solid pyrite? - ground core.

426.4 - 427.1

Near solid pyrite in schisted black and slightly limy rock.

427.1 - 428.5

L.C.

428.5 - 429.5

Black graphitic shale, few fine limy stringers & quartz carbonate, very slight pyrite.

429.5 - 441.2

Schisted black & grey slightly limy rock, well mineralized to near solid pyrite, (parts hornfels?)

441.2 - 449.3

Hard black shale (hornfels?) parts fine pyrite bands, few quartz stringers

449.3 - 449.7

Near solid pyrite in hard grey black, slightly limy rock.

449.7 - 475

Black hard shale, parts fine interbanded greys shale, slightly contorted, few white quartz carbonate stringers, with slight pyrite.

Lost: 470.9 - 471.5, 472.1 - 472.3, 473.5 - 474.

475 - 485

Sand (particles black shale ground core)

End of Hole

TOM CLAIMS - YUKON

<u>D.D.H. No. 20</u>	<u>-65°E</u>	<u>Elev. 5449</u>	<u>Section 55 + 00N</u> <u>2 + 10W</u>
0 - 40	Casing		
40 - 162.3	Black shale parts hard, parts graphite, very fine quartz carbonate stringers, slight pyrite. Lost: 31 - 33.3, 54.3 - 55, 56 - 56.9, 57.8 - 61, 61.3 - 62.5, 97.5 - 98.5.		
162.3 - 162.5	White quartz with black shale. (60° at 100')		
162.5 - 195.6	Black shale few white quartz carbonate stringers, slight pyrite.		
195.6 - 197.2	Slightly altered hard black shale, slight fine banded pyrite, slight galena, parts hornfels.		
197.2 - 205.7	Altered shale (very fine interbanded, contorted grey and black slightly sericitic rock) well mineralized to near solid fine galena, pyrite, slight sphalerite, few parts slightly limy.		
205.7 - 207.2	L.C. (80° at 200)		
207.2 - 223	Altered shale well mineralized to near solid galena slight pyrite with visible sphalerite, parts leached.		
223 - 225.1	Hornfels (?) with few white quartz stringers, few green talc fractures, slight pyrite galena.		
225.1 - 225.5	Slightly altered, contorted fine interbanded grey and black shale, well mineralized pyrite, sphalerite.		
226.2 - 227.5	L.C.		
227.5 - 229.4	Altered shale, well mineralized to near solid galena sphalerite slight pyrite.		
229.4 - 230.3	Hard black & grey shale, slightly altered & contorted, slight pyrite, sphalerite.		
230.3 - 230.6	Greenish white quartz with hornfels, slight sphalerite, pyrite.		
230.6 - 232.6	Slightly altered, contorted grey black shale with numerous white quartz carbonate stringers, well mineralized to near solid sphalerite pyrite and galena.		
232.6 - 241.5	Hard black to graphitic shale numerous narrow white quartz carbonate stringers, slightly contorted, slight pyrite, few fractures with calcite, parts visible sphalerite.		
241.5 - 265.5	Hard black & grey shale parts black few bands well mineralized pyrite few small blebs pyrite, few white quartz stringers.		
265.5 - 267.6	Near solid pyrite in slightly graphitic black shale.		

D.D.H. No. 20 (cont'd)

267.6 - 291.5	Black shale - few bands sandy grey shale, slight scattered pyrite & few bands near solid pyrite, parts slightly contorted, few small faults.
291.5 - 291.6	Solid sulphide pyrite.
291.6 - 302.6	Black and grey shale parts slightly contorted few white quartz veins, slight pyrite (80° at 300')
302.6 - 304	Conglomerate with slight pyrite.
304 - 308	Black shale, quartz carbonate stringers & few quartz veins, slightly contorted, slight pyrite.
308 - 330	Conglomerate parts well mineralized pyrite.
330 - 363	Grey and black shale & greywacke - slight pyrite, few quartz carbonate stringers. Lost: 328.8 - 330, 334.1 335 - 335.7 - 336.6, 339.2 - 339.8, 340.6 - 341.6, 344.1 - 344.7, 345.6 - 346.1, 346.6 - 347.7, 348.1 - 349, 349.3 - 350.

End of Hole

TOM CLAIMS - Yukon			
D.D.H. No. 21	-40°E	Elev. 5219	Section 70 + 00N 5 + 15W
0 - 57	Casing		
57 - 125.6	Black shale (parts broken & blocky) few narrow white quartz carbonate stringers with pyrite crystals & slight fine scattered pyrite - very few blebs solid sulphide pyrite. Lost: 61.7 - 63.3, 65.6 - 67.1, 68.7 - 69.5, 70.3 - 71.1, 72 - 72.7, 73.8 - 75, 77 - 77.7, 78 - 88.8, 97 - 98.5, 101 - 102.3, 103.1 - 103.9, 105.4 - 106.2, 107.8 - 108.6, 110 - 111.1, 113.2 - 114, 116.2 - 117.1, 118.3 - 119.6, 121.3 - 122.1, 122.4 - 123.1 (70° ± 100')		
125.6 - 1/2" stringer	yellow calcite.		
126.6 - 146	Black & grey shale few narrow quartz carbonate stringers with pyrite crystals, few fine pyrite stringers, slight fine scattered pyrite.		
141 - 148.7	Black & grey shale parts slightly contorted few narrow quartz carbonate stringers with pyrite, few blebs solid sulphide pyrite, parts blocky.		
148.7 - 149.5	Grey black shale numerous white quartz carbonate & yellow calcite stringers, all contorted, slight fine pyrite, parts blocky.		
149.5 - 166.9	Black & grey shale, few fine quartz carbonate stringers slight scattered pyrite with few bands near solid sulphide pyrite.		
166.9 - 167	Near solid pyrite.		
167 - 197	Black and grey shale few white quartz carbonate stringers with slight pyrite parts blocky.		
197 - 197.1	Black shale with stringers yellow calcite, slightly contorted.		
197.1 - 200	Black and grey shale few quartz carbonate stringers few fine bands pyrite. (50° ± 200')		
200 - 218.6	Slightly graphitic black & grey shale, few quartz carbonate stringers few fine bands pyrite parts slightly blocky. (50° ± 200')		
218.6 - 220.7	Black graphitic shale & numerous wide white quartz carbonate stringers, contorted. (Test sample 218.6 - 219.5)		
220.7 - 222	L.C.		
222 - 223.2	Black shale - blocky.		
223.2 - 224.5	L.C.		
224.5 - 268	Black shale, few narrow (1/2" to 3/4") veins quartz carbonate with slight to near solid pyrite - some slightly distorted with irregular edges, few small contorted zones.		

D.D.H. No. 21 (cont'd)

- 2 -

268 - 268.5	Black slightly graphitic shale & narrow quartz carbonate veins with slight pyrite - specks sphalerite
268.5 - 426	Black shale, few zones coarsely banded black and grey shale, slight pyrite, few bands quartz carbonate, few stringers near solid pyrite, parts slightly contorted - small faults. (75° ± 300') 1/2" yellow calcite at 419.5. Lost: 313 - 314, 316.7 - 317.5, 330.4 - 331.6, 352.3 - 353.5, 357.5 - 357.5 - 358.3, 365.8 - 365, 369 - 369.6, 375 - 375.7, 376.8 - 377.5, 380 - 380.9. (55° ± 400')
426 - 428.7	Hard black shale slight fine pyrite few quartz carbonate stringers.
428.7 - 442.5	Hard black shale few zones very fine interbanded grey & black shale & pyrite, few quartz carbonate veins with visible sphalerite and pyrite.
442.5 - 458	Very fine interbanded grey and black slightly limy rock fine pyrite mineralization with parts visible sphalerite, galena, few black cherty bands, (altered limestone) and shale
458 - 503.2	Fine interbanded grey, white and brown very limy rock, parts fine mineralized pyrite, galena sphalerite(?) (Altered limestone)
503.2 - 523	Hard black cherty to slightly graphitic rock, zones fine interbanded grey, white & black rock & fine pyrite bands, mineralization slight pyrite, galena sphalerite. (altered shale)
523 - 642	Coarse banded grey & black shale parts sandy, parts graphitic, slight scattered pyrite, few narrow pyrite stringers & quartz carbonate stringers, parts slightly contorted. Lost: 526 - 526.8, 530 - 530.8, 530.9 - 531.4, 533.2 - 534, 535.8 - 536.9, 555.8 - 556.2 - 558.5 - 559, 564.6 - 565.8, 578 - 573.7, 592 - 593, 607.5 - 608.6, 616.3 - 616.8, 629.5 - 621.8, 634.1 - 635.2

End of Hole

TOM CLAIMS - YUKON

D.D.H. No. 22

-45°E

Section 62 + 00N
4 + 75W

0 - 4	Casing (reamed to 32')
4 - 61.2	Black shale parts slightly coarse banded grey and black shale, few slightly distorted veins near solid pyrite & white quartz carbonate. Lost: 15.6 - 17, 19 - 19.4
61.2 - 61.5	Black shale - speckled pyrite crystals and white quartz carbonate.
61.5 - 64.5	Black shale, slight pyrite.
64.5 - 64.6	Banded slightly contorted quartz carbonate, black shale and near solid pyrite - grey shale (blebs?)
64.6 - 71	Black shale very few narrow quartz carbonate stringers with pyrite, parts slightly banded.
71 - 71.2	Black shale - speckled with pyrite crystals and white quartz & carbonate.
71.2 - 91	Black shale few veins quartz carbonate with near solid pyrite.
91 - 91.3	Black shale banded with near solid pyrite and quartz carbonate.
91.3 - 267.3	Black shale parts massive parts distorted with fine white veins slight pyrite few quartz carbonate veins, few stringers near solid to solid pyrite (80° @ 100') (55° @ 200')
267.3 - 267.4	Solid sulphide pyrite with fine white quartz & veins
267.4 - 320.5	Hard black to slightly graphitic shale few stringers pyrite and quartz carbonate. 1" Bleb H1 Grade sphalerite at 266.3 & 274.3 (70° @ 300')
320.5 - 321.2	Hard black shale - numerous white quartz carbonate stringers, slightly contorted, very slight pyrite.
321.2 - 326	Hard black shale very few fine white quartz carbonate (?) stringers slight pyrite.
326 - (350)	Black shale parts slightly contorted with fine white quartz carbonate stringers with pyrite crystals, few talcy fractures, very few wide (1/2) quartz carbonate veins, slight fine scattered pyrite.
326 - 384	Black shale parts slightly contorted with fine white quartz carbonate stringers, slight pyrite crystals few talcy fractures, very few wide quartz carbonate veins, slight fine scattered pyrite. Lost: 366.5 - 367, 368.5 - 369.5, 377 - 378, 378.9 - 380.
384 - 385	Hard black shale, slight pyrite,

D.D.H. No. 22 (cont'd)

- 2 -

385 - 396.5	Fine interbanded hard black and grey to grey and brown shale, slightly contorted and quartz filled, slight pyrite, galena (altered shale) Lost: 391.6 - 392.1, 393 - 393.9
392.5 - 475.5	Fine interbanded grey brown limy rock, slight pyrite, galena (Altered Limestone) Lost: 410.4 - 411.1
474.4 - 499	Altered Limestone (some well mineralized galena, few bands solid galena, 1" rusty zone at 496.2)
499 - 500.1	Hard black fine grained rock (cherty?) few quartz carbonate stringers and slight pyrite, galena. (80° @ 500')
500.1 - 502	Altered limestone well mineralized with galena, slight pyrite
502 - 502.5	Hard black rock (Hornfels?) very slight pyrite
502.5 - 504.5	Disseminated galena in Grey Brown limy rock with parts granular texture, slight pyrite, sphalerite? (Altered Limestone)
504.5 - 508.5	Hard black rock (shale to hornfels) wide veins solid pyrite and quartz carbonate, slight galena sphalerite (Altered Shale)
508.5 - 511.0	Hard grey and black rock, slightly quartz filled, few fine white quartz carbonate stringers, slight galena, pyrite few wide veins pyrite
511.0 - 516	Hard grey black slightly (marble) granular sugary rock, fine quartz carbonate stringers, slight fine pyrite, galena, cherty zones banding evident.
516 - 517.5	Hard black shale few fine quartz carbonate stringers very slight pyrite galena.
517.5 - 517.6	1/2" vein solid sphalerite in hard black slightly altered shale with quartz carbonate, slight pyrite.
517.6 - 530	Hard to slightly graphitic black shale few quartz carbonate stringers slight pyrite Lost: 520.2 - 521.2, 525.8 - 527.0
530 - 550	Grey and black shale parts coarse banded, parts faulted & contorted with few quartz carbonate stringers, very slight pyrite, parts blocky. Lost: 536.3 - 537.5, 545.5 - 546.2

End of Hole

TOM CLAIMS - YUKON

D.D.H. No. 21

-75°E

Elev. 5219

Section 70 + 00N
5 + 53W

0 - 38 Casing

38 - 44.6 Grey black shale few quartz carbonate stringers & slight pyrite.
Lost: 38.5 - 40, 40.5 - 42.5, 42.9 - 44

44.6 - 45 Grey black shale wide white quartz veins.

45 - 46.2 L.C.

46.2 - 47.2 Grey black shale wide white quartz veins all slightly contorted, very slight pyrite.

47.2 - 61 Black Grey shale few white quartz carbonate stringers, very slight pyrite.
Lost: 47.7 - 48.6

61 - 61.1 Rusty white quartz vein

61.1 - 73 Black shale parts slightly grey shale, few fine white quartz carbonate stringers, very slight pyrite.

73 - 75 Black graphitic shale with few blebs grey shale, slight to well mineralized pyrite with slight quartz carbonate.

75 - 98.8 Black shale, few parts slightly blocky, few stringers and isolated small lenses of pyrite in quartz carbonate.

98.8 - 99 Nearly solid pyrite in black shale (45° @ 100')

99 - 107 Black shale, few fine bands pyrite in white quartz carbonate.

107 - 107.8 Black & grey shale slightly contorted parts hard, sandy

107.8 - 114 Black & grey graphitic shale, contorted & folded, few quartz veins.

114 - 117 Black shale with few bands & blebs (?) grey shale in quartz carbonate slight pyrite.

117 - 344 Black shale, few pyrite stringers, parts grey shale, few pyrite veins quartz carbonate (45° @ 200')
Lost: 125.6 - 127.6, 130 - 130.9, 132.2 - 133.2, 151.2 - 152.5, 153.4 - 154.4, 155.3 - 157, 158.5 - 159.3, 160 - 160.8, 162.5 - 163.5, 166.7 - 167.5 - 179.5 - 180, 181.5 - 182.7, 185.2 - 186 - 188.4 - 189.2, 190.8 - 191.1, 192.7 - 193.6 - 197.5 - 197.8, 203 - 204, 209.4 - 210, 211.2 - 212, 213 - 213.4, 214.6 - 215, 215.8 - 216.9, 218 - 219.3, 230.7 - 232, 251 - 252.7, 254.1 - 255.
(50° @ 300')

344 - 344.3 Black shale with fracture with yellow calcite.

D.D.H. No. 21 (cont'd)

344.3 - 444.7 Black shale with some grey shale, bands (sedimentary?) pyrite; few quartz carbonate stringers with slight to near solid pyrite.
(60° @ 400')

Lost: 377.1 - 377.4, 380 - 381, 384.4 - 385.404 - 405, 410 - 410.8, 412.3 - 413.2.

444.7 - 445.3 Black shale & white quartz veins: slightly contorted.

445.3 - 490 Black shale - few fine white quartz - carbonate stringers & white quartz veins.
Lost: 450.2 - 451.1, 453.7 - 455.4, 462.6 - 464, 479.7 - 480, 484 - 484.5

490 - 492.5 Hard black shale fine mineralized pyrite few quartz carbonate (Altered Shale) parts slight visible sphalerite, pyrite, fine galena? (80° @ 500')

492.5 - 507 Hard, fine interbanded grey & black shale (to Hornfels), pyrite & quartz carbonate, parts visible sphalerite, pyrite (fine galena) Altered Shale.

517 - 514.2 Altered shale - slightly limy, slight galena sphalerite, pyrite.

514.2 - 514.3 Hi-grade sphalerite (1" blebs)

514.3 - 517 Altered shale - slightly limy - slight galena, pyrite.

517 - 557 (Altered limestone) fine interbanded grey, black and brown limy rock, mineralized fine galena, sphalerite, pyrite.
Lost: 520.1 - 521.1, 525.8 - 527, 543.1 - 544.1

557 - 597 (Altered shale) hard, intervanded black rock (Hornfels?) and white to grey quartz carbonate, slight fine galena, pyrite parts slightly limy, parts narrow stringers sphalerite, parts contorted.
Lost: 580 - 580.7, 590 - 590.3

597 - 600 Hornfels to black shale few white quartz carbonate stringers, slight pyrite (85° @ 600')

600 - 600.8 Black shale few narrow white quartz carbonate stringers with pyrite.

600.8 - 601.1 Nearly solid pyrite in quartz carbonate with black shale.

601.1 - 616 Black shale, few white quartz carbonate stringers with slight pyrite parts slightly contorted.
Lost: 603.7 - 605, 606.8 - 607.6, 610.2 - 611, 613.5 - 614.5

616 - 617 L.C.

617 - (707) Blocky coarsely interbanded grey and black shale, parts sandy, parts slightly graphitic, slight scattered pyrite, few quartz carbonate stringers, few zones graywacke (80° @ 700')
Lost: 619.1 - 620, 621.7 - 623.1, 626.7 - 628, 628.6 - 629.5, 631.1 - 632.1, 637.2 - 638.2, 640.8 - 641.7, 680.8 - 681.1, 689.6 - 690, 696.8 - 697.9, 700 - 701.3

End of Hole

TOM CLAIMS - YUKON

D.D.H. No. 23-A -65°E El. 5219' Section 70 + 00N
5 + 53N

0 - 41. Casing

41 - 154 Black shale few white quartz veins and quartz carbonate stringers
few bands & blebs of near solid to solid pyrite, few parts
distorted

Lost: 85 - 85.6, 107.2 - 108, 112.4 - 113.5, 115 - 116.5
117.8 - 119.1, 125.8 - 127, 128 - 129, 130 - 131.2, 132 - 132.9,
134 - 136.2, 136.8 - 138, 139.5 - 141.8

End of Hole

(This hole was abandoned because of excessive flattening)

TOM CLAIMS - YUKON

D.D.H. No. 24 -75°E Elev. 5265 Section 62 + 00N
4 + 77N

0 - 6 Casing

6 - 75 Black shale few bands grey shale, few very fine bands pyrite, few
narrow stringers near solid pyrite in quartz carbonate - some
contorted, parts blocky.

Lost: 39.5 - 42, 59.1 - 61, 71.4 - 71.9, 73.5 - 74

75 - 86 Black & grey shale with numerous very fine white stringers all
contorted, few quartz carbonate stringers with pyrite.

86 - 90.2 Black shale, very few fine white stringers, slight pyrite.

90.2 - 90.7 Banded, slightly folded well mineralized pyrite in black shale

90.7 - 124.3 Black shale, few narrow quartz carbonate stringers with well
mineralized pyrite - few fine white stringers slightly contorted.
(Note: Oxidation of pyrite in quartz carbonate at 105')
(45° @ 100')

124.3 - 126 Numerous white quartz carbonate stringers with near solid pyrite
in black shale - slightly contorted.

126 - (207) Black shales few white quartz carbonate stringers - some contorted -
with nearly solid pyrite, few bands near solid (sedimentary?) pyrite.
(40° @ 200')

207 - 212 Black shale, fine white stringers, numerous wide contorted bands
near solid to solid pyrite.

212 - 212.5 Slight pyrite in black shale

212.5 - 265 Black shale, few narrow quartz carbonate stringers, slight pyrite

265 - 271 Black shale, fine scattered pyrite, very few fine white stringers.

271 - 281 Black shale, few fine white quartz carbonate stringers, very few
small blebs pyrite.

281 - 284.4 Grey & black shale numerous wide white quartz & quartz carbonate
veins, contorted, very slight pyrite.

284.4 - 338 Black shale very few quartz carbonate stringers, slight pyrite
(50° @ 300')

338 - 338.6 Black shale slightly contorted with stringers yellow calcite

338.6 - 340.6 Black & grey shale few fine white (quartz carbonate?) stringers very
slight pyrite.

340.6 - 351 Black & grey shale parts with numerous fine white quartz carbonate
stringers - contorted, with slight pyrite.

351 - 478 Black shale - few white quartz carbonate stringers, slight pyrite.

Lost: 347.3 - 347.9, 397.2 - 400 (60° @ 400')

D.D.M. No. 24

-2-

Lost: 347.3 - 347.7, 397.2 - 400 (60° @ 400')

478 - 479.5 Very hard black shale - very slight pyrite

479.5 - 487 Fine interbanded hard grey and black shale with quartz carbonate with pyrite and slight scattered galena (altered shale)

487 - 578 Altered limestone - interbanded grey and brown, parts contorted-mineralized pyrite and galena (75° @ 500')

Lost: 495.8 - 497.2, 503.9 - 505, 545 - 547.1

578 - 598.8 Fine interbanded gray & brown rock (Barite?) parts very slightly limy, few zones grey cherty rock with white quartz veins, fine mineralized pyrite galena, sphalerite (Altered Limestone)

Lost: 582.6 - 583.5, 588.5 - 590.0, 597.3 - 598.2

598.8 - 600.3 Fine interbanded grey brown Rock slight scattered pyrite crystals, sphalerite? (Altered Limestone) (60° @ 600')

600.3 - 600.7 Fine interbanded white, grey and hard black rock with quartz carbonate stringers. (Altered Shale)

600.7 - 600.8 Nearly solid galena

600.8 - 603.1 Very hard black cherty rock (hornfels) few white quartz carbonate stringers, few zones fine interbanded grey, Black rock & white quartz carbonate. Slight fine pyrite. (Altered Shales)

603.1 - 603.9 White Quartz

603.9 - 609.5 Very hard black shale (hornfels) quartz carbonate stringers very slight fine pyrite.

609.5 - 609.7 Nearly solid to solid sulphide pyrite.

609.7 - 611 Very hard black shale very slight fine pyrite.

611 - 611.4 Coarsely banded hard grey, black shale, pyrite & white quartz carbonate.

611.4 - 611.7 Hard black shale

611.7 - 612.2 Interbanded grey & black shale & white quartz carbonate near solid to solid sulphide pyrite, few stringers galena.

612.2 - 613.5 Hornfels (?) with few zones fine interbanded grey & black shale & white quartz carbonate, nearly solid pyrite.

613.5 - 614.3 Nearly solid to solid pyrite (Altered Shales)

614.3 - 623 Very hard black shale & very slight fine pyrite with wide zones fine interbanded grey & black shale & pyrite.
(Altered Shales)

623 - 630 Very hard black shale, few bands fine bedded pyrite.

630 - 632 Hard Black shale few veins white quartz.

D.D.M. No. 24

-3-

632 - 657 Black shale few veins white quartz carbonate with pyrite

Lost: 637 - 638, 645 - 646.8, 653.8 - 654.1

657 - 674.4 Grey and black graphitic shale - few quartz carbonate stringers parts contorted - with slight pyrite.

Lost: 667.6 - 668.9, 665.9 - 666.5

674.4 - 688.4 Coarsely banded grey and black shale - few fine quartz carbonate stringers - very slight pyrite - parts slightly contorted

Lost: 682.9 - 685

688.4 - 690.2 Grey and black shale with fine white stringers, very slight pyrite

690.2 - 697 Conglomerate - very slight fine pyrite.

End of Hole

TOM CLAIMS - YUKON

D.D.H. No. 25

-75°E

Section 74 + 00
5 + 734

0 - 15

Casing

15 - 47.3

Black shale few white quartz carbonate stringers with pyrite crystals slight fine scattered pyrite.

Lost: 33.5 - 35, 36.4 - 38, 41 - 43.2, 43.6 - 46.6

47.3 - 53

Black & sandy brown shale, well mineralized pyrite, numerous very small (lenses) & fine stringers of white quartz carbonate with pyrite. Few oxidized fractures.

53 - 74.3

Black shale, sandy to slightly graphitic, very few fine white quartz carbonate stringers with slight pyrite - slight scattered pyrite.

Lost: 55.8 - 56.8

74.3 - 75

Black shale numerous white quartz carbonate stringers slight scattered pyrite.

75 - 93

Black shale few narrow white quartz carbonate stringers slight scattered pyrite, few fractures with slight calcite.

93 - 99

Grey & black shale, slightly graphitic, parts slight calcite(?) filled, very slight scattered pyrite.

99 - 115

Black shale few narrow calcite stringers, few white quartz carbonate stringers, very few blebs solid sulphide pyrite, scattered pyrite (35° @ 100')

115 - 115.4

Nearly solid pyrite in irregular lenses quartz carbonate, and black shale.

115.4 - 124.2

Black shale few fine quartz carbonate stringers, slight pyrite.

124.2 - 124.6

Bands near solid to solid sulphide pyrite in grey black shale

124.6 - 200.6

Black shale, very few fine white quartz carbonate stringers in fractures, few parts bedded (?) near solid pyrite, slight scattered pyrite, very few fractures with yellow to white calcite. (45° @ 200')

Lost: 129 - 139, 160.5 - 161.5, 163.8 - 165, 166 - 166.8, 168 - 169.5, 170.6 - 171.5, 176 - 177.5, 179.1 - 180, 181.3 - 182.8, 183.8 - 185, 186 - 186.5, 188.5 - 189.5, 191.4 - 193, 193.5 - 196.4.

200.6 - 209.7

Grey black shale few narrow stringers white quartz carbonate with slight to nearly solid pyrite (some irregular & not parallel to bedding, some slightly leached.

209.7 - 210

Near solid to solid sulphide pyrite with veinless white quartz (carbonate?)

D.D.H. No. 25

- 2 -

210 - 211

Grey & black shale contorted & brecciated (?) few quartz carbonate veinlets cutting across bedding, few crystals pyrite & few quartz eyes.

211 - 287.9

Massive black shale few quartz carbonate stringers, some with near solid pyrite, slight scattered pyrite, parts slightly contorted.

Lost: 266.3 - 267.3, 270 - 270.8, 271.5 - 272, 273.6 - 274.6, 278.6 - 280.7, 281.5 - 282.1

287.9 - 288.1

White quartz carbonate slightly contorted & leached, with black shale

288.1 - 307

Black shale few white quartz carbonate stringers, some contorted with pyrite. (65° @ 200')

Lost: 288.6 - 289.1

307 - 307.4

Nearly solid to solid sulphide pyrite with white quartz carbonate

307.4 - 346.5

Black shale few white quartz carbonate stringers, slight pyrite, few narrow quartz veins, parts slightly contorted grey black shale

Lost: 316 - 317, 321.2 - 322.1, 323.5 - 325

346.5 - 383

Massive black shale to grey & black coarse banded shale, very few solid sulphide pyrite bands (bedded?) few white quartz carbonate stringers

383 - 383.8

Black & grey shales (weathered (?) & consolidated oval chunks, slightly contorted small blebs & angular fragments of near solid pyrite)

383.8 - 476

Massive black shale few stringers quartz carbonate with nearly solid pyrite. (50° @ 400')

Lost: 387.3 - 388.3, 391.2 - 392.4, 394 - 395, 396.3 - 398, 399.6 - 400.5, 402.7 - 403.5, 412 - 413.5, 415.7 - 417.2, 419 - 420, 424 - 425, 425.8 - 427, 429 - 431.6, 432 - 433.1, 433.7 - 435.7, 435.435.6 - 436.7, 437.6 - 438.1, 439 - 440, 440.5 - 441.1, 442.4 - 443.2, 445.5 - 446.1, 446.8 - 447.6 - 449 - 450.8, 452.3 - 453.4

476 - 497

Black and grey shales very coarsely banded, few white quartz carbonate stringers with pyrite few fine beds (?) pyrite, few blebs solid sulphide pyrite.

497 - 629.8

Black shales, few fine white stringers, few quartz carbonate stringers with nearly solid pyrite, few blebs solid sulphide pyrite.

(65° @ 500') (70° @ 600')

Lost: 504.1 - 505, 512.2 - 513.1, 518 - 519.3, 523.6 - 525, 526 - 526.9, 527.6 - 528.4, 529.7 - 531.1, 533.5 - 533.5 - 536, 537.3 - 537.9, 534.7 - 545.9, 547.9 - 547.5 - 548.3, 562.3 - 563.5, 565 - 566.5, 568.5 - 569.6, 570 - 571.2, 576.3 - 577, 578 - 578.6, 596.4 - 598, 599.2 - 600.2, 607 - 609, 611.1 - 611.8, 613.4 - 614.4, 616.6 - 618, 619.1 - 620, 622 - 623

D.D.H. No. 25

- 3 -

629.8 - 646.8

Black and grey slightly altered shale with numerous narrow quartz carbonate stringers with slight pyrite & a few with solid sulphide sphalerite (Resin-jack?)

Lost: 644.2 - 645.7

646.8 - 646.9

Solid sulphide pyrite with fine white veinlets

646.9 - 675.5

Black & grey shale, coarsely banded with few narrow white carbonate stringers, slight pyrite, parts sandy, few veins or bands slight to near solid pyrite, parts slightly contorted.

Lost: 649.4 - 650, 653.1 - 655.8, 671.9 - 673.1

675.5 - 676

Greywacke with slight pyrite.

676 - 676.8

L.C.

676.8 - 719

Coarse banded grey & black shale & few narrow zones greywacke; slight scattered pyrite & very few narrow zones near solid pyrite. (50° @ 700')

Lost: 678 - 678.6, 679.4 - 680, 685.4 - 686.9, 691 - 692, 694.6 - 695, 717.5 - 719

End of Hole

TOM CLAINS - YUKON

D.D.H. No. 26

-75°E

Elev. 5199'

Section 66 + OCH
6 + 27N

0 - 10

Casing

10 - 16.3

Black graphitic shale

Lo t/ 12 - 12.8, 13.8 - 15.6

16.3 - 16.6

Black graphitic shale contorted with numerous fine white quartz carbonate stringers.

16.6 - 111.5

Black graphitic shale few fine pyrite bands, very few fine quartz carbonate stringers, slight pyrite. (60° @ 100')

Lost: 18.2 - 19, 20 - 25, 28.7 - 30, 41.5 - 43.5, 47. - 47.7, 49.6 - 50, 52.7 - 53.9, 55 - 56.3, 58 - 59.3, 62 - 63.1, 63.7 - 66, 66.7 - 68.8, 70.8 - 71.9, 73.2 - 76, 80 - 83.4, 83.5 - 88, 88.8 - 90, 91 - 92.8, 93.1 - 95.9, 96.2 - 97.5, 103.7 - 106.6, 107 - 108.9, 109 - 110, 110.8 - 111.2

111.5 - 127.5

Massive very slightly sandy black shales few white quartz carbonate stringers with near solid pyrite, some contorted, parts blocky.

127.5 - 128.7

Well mineralized to nearly solid pyrite with slight quartz carbonate in grey sandy rock.

128.7 - 136

Black shale, few fine white stringers, very slight scattered pyrite.

136 - 137

Well mineralized to nearly solid pyrite with slight quartz carbonate in sandy grey rock.

137 - (224)

Black shale few very fine white stringers, few narrow quartz carbonate stringers with well mineralized pyrite, some contorted. Lost: 194.5 - 196.3 (40° @ 200')

224 - 224.4

Well mineralized to near solid pyrite in black shale

224.4 - 239.1

Black shale few zones numerous white quartz carbonate stringers slightly contorted, with pyrite.

239.1 - 239.4

White quartz carbonate veins folded in black graphitic shale - slickenside surface of shale parallel to vein.

239.4 - 301

Black shale, narrow tie fine quartz carbonate stringers, some contorted, with slight pyrite, few scattered fine & wide bands fine pyrite.

301 - 302

Black shale - (long fracture perpendicular to bedding)

302 - 313

Black shale few narrow white quartz carbonate stringers, parts slightly leached, narrow solid sulphide pyrite band.

313 - 313.8

Slight to solid sulphide pyrite in black shale, few white quartz carbonate stringers

313.8 - 466.8

Massive black graphitic shale few white quartz carbonate stringers & small lenses, with pyrite. Some slightly contorted, slight scattered pyrite & few small blebs solid sulphide pyrite.

D.D.H. No. 26 (cont'd)

- 2 -

466.8 - 466.9 Stringers white quartz in black shale.

466.9 - 472.5 Blocky black shale with few fine quartz carbonate stringers very slight pyrite.

472.5 - 473.2 Very fine interbanded hard grey & black shale & fine quartz carbonate with slight fine pyrite, Zn? (slightly altered shale)

473.2 - 488.1 Black very hard shale, fine to narrow quartz carbonate stringers with slight solid sulphide sphalerite & pyrite. (Altered Shales)

488.1 - 488.2 Vein white limy rock

488.2 - 519 Very hard black & grey shales, narrow quartz carbonate stringers with pyrite & sphalerite, parts contorted. (Altered Shales) (45° @ 500')

Lost: 515 - 516.6, 519.4 - 520

519 - 513.5 (Altered Shales) parts slightly soft, interbanded & contorted grey & black shale - green talcy stringers & fractures.

Lost: 519.4 - 520, 520.8 - 522.3, 523.1 - 527

531.5 - 547.0 (Altered shales) hard black shale parts fine interbanded with white quartz carbonate stringers, slight to well mineralised pyrite & sphalerite, numerous fine pyrite stringers, very few parts limy.

547.0 - 548.6 L.C.

548.6 - 548.9 Near solid to solid sulphide pyrite.

548.9 - 570 Hard black shales fine white quartz carbonate stringers, Sphalerite very slight pyrite (Altered Shales) parts slightly limy.

570 - 572.5 Altered shales & limestone slight mineralised pyrite sphalerite.

572.5 - 588.1 Altered limestone - fine interbanded grey, brown & white limy rock slight pyrite, sphalerite.

588.1 - 588.2 Stringer with H1 grade sphalerite & galena.

588.2 - 614 Altered limestone - slight pyrite, sphalerite, galena (65° @ 600')

Lost: 594.2 - 595, 606.5 - 608.4, 611.8 - 612.4

614 - 644 Altered shales very hard, parts slightly limy, slight pyrite galena sphalerite

644 - 660 Altered shales very hard, few small stringers sphalerite, slight pyrite galena parts numerous white quartz veins.

660 - 682.8 Hard to slightly graphitic block altered shales with very slight pyrite and sphalerite.

Lost: 670 - 671, 673.1 - 675.8, 679.3 - 680.4

682.8 - 732.1 Hard block graphitic shale with few quartz carbonate stringers and slight pyrite.

D.D.H. No. 26 (cont'd)

- 2 -

Lost: 691.5 - 692.5, 721 - 721.5

732.1 - 732.3 Nearly solid pyrite.

732.3 - 739.5 Hard block shale with narrow quartz-carbonate stringers and slight pyrite.

Lost: 736.2 - 737.6

739.5 - 740.4 Nearly solid pyrite.

740.4 - 742 Hard block shale with narrow quartz - carbonate stringers.

End of Hole

TOM CLAIMS - YUKON

Section 78 + 00

D.D.H. No. 27

0 - 20

Casing

20 - 92

Black graphitic shale with few quartz-carbonate stringers with pyrite.

Lost: 34 - 36, 36.5 - 37, 38.5 - 39, 41.2 - 42.2, 44.6 - 47, 48 - 50.3, 55 - 55.3, 56.4 - 57.6, 60 - 61.7, 63.2 - 65, 67 - 68.2 - 69.4 - 71.5, 74 - 75.7, 77.4 - 79, 80 - 82.3, 83 - 86.3, 87.2 - 88.2, 89.3 - 90, 91.5 - 92.

92 - 173

Hard black massive shale with few narrow fine fragmental beds and few stringers and blebs pyrite (40° @ 100')

Lost: 129 - 130.6, 132.2 - 133.5, 137.7 - 139

(Hole temporarily stopped at end of season - November 25th, 1952.)

Section 78 + 00

D.D.H. No. 27

0.0 - 2.0

Casing

20.0 - 92.0

black graphitic shale, few quartz-carbonate stringers with pyrite.

Lost: 34-36, 36.5-37, 38.5-39, 41.2-42.2, 44.6-47, 48-50.3, 55-55.3, 56.4-57.6, 60-61.7, 63.2-65, 67-68.2-69.4-71.5, 74-75.7, 77.4-79, 80-82.3, 83-86.3, 87.2-88.2, 89.3-90, 91.5-92.

92.0 - 254.3

Hard black massive shale, few thin fragmental beds, rusty fracture, few stringers and blebs pyrite throughout.

Lost: 129-130.6, 132.2-133.5, 137.7-139, 140-141, 142-143, 144-145, 146-147, 148-149, 150-151, 152-153, 154-155, 156-157, 158-159, 160-161, 162-163, 164-165, 166-167, 168-169, 170-171, 172-173, 174-175, 176-177, 178-179, 180-181, 182-183, 184-185, 186-187, 188-189, 190-191, 192-193, 194-195, 196-197, 198-199, 200-201, 202-203, 204-205, 206-207, 208-209, 210-211, 212-213, 214-215, 216-217, 218-219, 220-221, 222-223, 224-225, 226-227, 228-229, 230-231, 232-233, 234-235, 236-237, 238-239, 240-241.

Shale generally a hard to get into with a few stringers of pyrite.

254.3 - 254.6

Solid carbonite, fine grained, pyrite - 10° @ 100'.

254.6 - 246.2

black graphitic shale, locally more massive, some thin fragmental beds, occasional stringers of pyrite.

Lost: 245-246.1, 247.0-248, 249.0-249.1, 249.2-249.3, 249.4-249.5, 249.6-249.7, 249.8-249.9, 250.0-250.1, 250.2-250.3, 250.4-250.5, 250.6-250.7, 250.8-250.9, 251.0-251.1, 251.2-251.3, 251.4-251.5, 251.6-251.7, 251.8-251.9, 252.0-252.1, 252.2-252.3, 252.4-252.5, 252.6-252.7, 252.8-252.9, 253.0-253.1, 253.2-253.3, 253.4-253.5, 253.6-253.7, 253.8-253.9, 254.0-254.1, 254.2-254.3, 254.4-254.5, 254.6-254.7, 254.8-254.9, 255.0-255.1, 255.2-255.3, 255.4-255.5, 255.6-255.7, 255.8-255.9, 256.0-256.1, 256.2-256.3, 256.4-256.5, 256.6-256.7, 256.8-256.9, 257.0-257.1, 257.2-257.3, 257.4-257.5, 257.6-257.7, 257.8-257.9, 258.0-258.1, 258.2-258.3, 258.4-258.5, 258.6-258.7, 258.8-258.9, 259.0-259.1, 259.2-259.3, 259.4-259.5, 259.6-259.7, 259.8-259.9, 260.0-260.1, 260.2-260.3, 260.4-260.5, 260.6-260.7, 260.8-260.9, 261.0-261.1, 261.2-261.3, 261.4-261.5, 261.6-261.7, 261.8-261.9, 262.0-262.1, 262.2-262.3, 262.4-262.5, 262.6-262.7, 262.8-262.9, 263.0-263.1, 263.2-263.3, 263.4-263.5, 263.6-263.7, 263.8-263.9, 264.0-264.1, 264.2-264.3, 264.4-264.5, 264.6-264.7, 264.8-264.9, 265.0-265.1, 265.2-265.3, 265.4-265.5, 265.6-265.7, 265.8-265.9, 266.0-266.1, 266.2-266.3, 266.4-266.5, 266.6-266.7, 266.8-266.9, 267.0-267.1, 267.2-267.3, 267.4-267.5, 267.6-267.7, 267.8-267.9, 268.0-268.1, 268.2-268.3, 268.4-268.5, 268.6-268.7, 268.8-268.9, 269.0-269.1, 269.2-269.3, 269.4-269.5, 269.6-269.7, 269.8-269.9, 270.0-270.1, 270.2-270.3, 270.4-270.5, 270.6-270.7, 270.8-270.9, 271.0-271.1, 271.2-271.3, 271.4-271.5, 271.6-271.7, 271.8-271.9, 272.0-272.1, 272.2-272.3, 272.4-272.5, 272.6-272.7, 272.8-272.9, 273.0-273.1, 273.2-273.3, 273.4-273.5, 273.6-273.7, 273.8-273.9, 274.0-274.1, 274.2-274.3, 274.4-274.5, 274.6-274.7, 274.8-274.9, 275.0-275.1, 275.2-275.3, 275.4-275.5, 275.6-275.7, 275.8-275.9, 276.0-276.1, 276.2-276.3, 276.4-276.5, 276.6-276.7, 276.8-276.9, 277.0-277.1, 277.2-277.3, 277.4-277.5, 277.6-277.7, 277.8-277.9, 278.0-278.1, 278.2-278.3, 278.4-278.5, 278.6-278.7, 278.8-278.9, 279.0-279.1, 279.2-279.3, 279.4-279.5, 279.6-279.7, 279.8-279.9, 280.0-280.1, 280.2-280.3, 280.4-280.5, 280.6-280.7, 280.8-280.9, 281.0-281.1, 281.2-281.3, 281.4-281.5, 281.6-281.7, 281.8-281.9, 282.0-282.1, 282.2-282.3, 282.4-282.5, 282.6-282.7, 282.8-282.9, 283.0-283.1, 283.2-283.3, 283.4-283.5, 283.6-283.7, 283.8-283.9, 284.0-284.1, 284.2-284.3, 284.4-284.5, 284.6-284.7, 284.8-284.9, 285.0-285.1, 285.2-285.3, 285.4-285.5, 285.6-285.7, 285.8-285.9, 286.0-286.1, 286.2-286.3, 286.4-286.5, 286.6-286.7, 286.8-286.9, 287.0-287.1, 287.2-287.3, 287.4-287.5, 287.6-287.7, 287.8-287.9, 288.0-288.1, 288.2-288.3, 288.4-288.5, 288.6-288.7, 288.8-288.9, 289.0-289.1, 289.2-289.3, 289.4-289.5, 289.6-289.7, 289.8-289.9, 290.0-290.1, 290.2-290.3, 290.4-290.5, 290.6-290.7, 290.8-290.9, 291.0-291.1, 291.2-291.3, 291.4-291.5, 291.6-291.7, 291.8-291.9, 292.0-292.1, 292.2-292.3, 292.4-292.5, 292.6-292.7, 292.8-292.9, 293.0-293.1, 293.2-293.3, 293.4-293.5, 293.6-293.7, 293.8-293.9, 294.0-294.1, 294.2-294.3, 294.4-294.5, 294.6-294.7, 294.8-294.9, 295.0-295.1, 295.2-295.3, 295.4-295.5, 295.6-295.7, 295.8-295.9, 296.0-296.1, 296.2-296.3, 296.4-296.5, 296.6-296.7, 296.8-296.9, 297.0-297.1, 297.2-297.3, 297.4-297.5, 297.6-297.7, 297.8-297.9, 298.0-298.1, 298.2-298.3, 298.4-298.5, 298.6-298.7, 298.8-298.9, 299.0-299.1, 299.2-299.3, 299.4-299.5, 299.6-299.7, 299.8-299.9, 300.0-300.1, 300.2-300.3, 300.4-300.5, 300.6-300.7, 300.8-300.9, 301.0-301.1, 301.2-301.3, 301.4-301.5, 301.6-301.7, 301.8-301.9, 302.0-302.1, 302.2-302.3, 302.4-302.5, 302.6-302.7, 302.8-302.9, 303.0-303.1, 303.2-303.3, 303.4-303.5, 303.6-303.7, 303.8-303.9, 304.0-304.1, 304.2-304.3, 304.4-304.5, 304.6-304.7, 304.8-304.9, 305.0-305.1, 305.2-305.3, 305.4-305.5, 305.6-305.7, 305.8-305.9, 306.0-306.1, 306.2-306.3, 306.4-306.5, 306.6-306.7, 306.8-306.9, 307.0-307.1, 307.2-307.3, 307.4-307.5, 307.6-307.7, 307.8-307.9, 308.0-308.1, 308.2-308.3, 308.4-308.5, 308.6-308.7, 308.8-308.9, 309.0-309.1, 309.2-309.3, 309.4-309.5, 309.6-309.7, 309.8-309.9, 310.0-310.1, 310.2-310.3, 310.4-310.5, 310.6-310.7, 310.8-310.9, 311.0-311.1, 311.2-311.3, 311.4-311.5, 311.6-311.7, 311.8-311.9, 312.0-312.1, 312.2-312.3, 312.4-312.5, 312.6-312.7, 312.8-312.9, 313.0-313.1, 313.2-313.3, 313.4-313.5, 313.6-313.7, 313.8-313.9, 314.0-314.1, 314.2-314.3, 314.4-314.5, 314.6-314.7, 314.8-314.9, 315.0-315.1, 315.2-315.3, 315.4-315.5, 315.6-315.7, 315.8-315.9, 316.0-316.1, 316.2-316.3, 316.4-316.5, 316.6-316.7, 316.8-316.9, 317.0-317.1, 317.2-317.3, 317.4-317.5, 317.6-317.7, 317.8-317.9, 318.0-318.1, 318.2-318.3, 318.4-318.5, 318.6-318.7, 318.8-318.9, 319.0-319.1, 319.2-319.3, 319.4-319.5, 319.6-319.7, 319.8-319.9, 320.0-320.1, 320.2-320.3, 320.4-320.5, 320.6-320.7, 320.8-320.9, 321.0-321.1, 321.2-321.3, 321.4-321.5, 321.6-321.7, 321.8-321.9, 322.0-322.1, 322.2-322.3, 322.4-322.5, 322.6-322.7, 322.8-322.9, 323.0-323.1, 323.2-323.3, 323.4-323.5, 323.6-323.7, 323.8-323.9, 324.0-324.1, 324.2-324.3, 324.4-324.5, 324.6-324.7, 324.8-324.9, 325.0-325.1, 325.2-325.3, 325.4-325.5, 325.6-325.7, 325.8-325.9, 326.0-326.1, 326.2-326.3, 326.4-326.5, 326.6-326.7, 326.8-326.9, 327.0-327.1, 327.2-327.3, 327.4-327.5, 327.6-327.7, 327.8-327.9, 328.0-328.1, 328.2-328.3, 328.4-328.5, 328.6-328.7, 328.8-328.9, 329.0-329.1, 329.2-329.3, 329.4-329.5, 329.6-329.7, 329.8-329.9, 330.0-330.1, 330.2-330.3, 330.4-330.5, 330.6-330.7, 330.8-330.9, 331.0-331.1, 331.2-331.3, 331.4-331.5, 331.6-331.7, 331.8-331.9, 332.0-332.1, 332.2-332.3, 332.4-332.5, 332.6-332.7, 332.8-332.9, 333.0-333.1, 333.2-333.3, 333.4-333.5, 333.6-333.7, 333.8-333.9, 334.0-334.1, 334.2-334.3, 334.4-334.5, 334.6-334.7, 334.8-334.9, 335.0-335.1, 335.2-335.3, 335.4-335.5, 335.6-335.7, 335.8-335.9, 336.0-336.1, 336.2-336.3, 336.4-336.5, 336.6-336.7, 336.8-336.9, 337.0-337.1, 337.2-337.3, 337.4-337.5, 337.6-337.7, 337.8-337.9, 338.0-338.1, 338.2-338.3, 338.4-338.5, 338.6-338.7, 338.8-338.9, 339.0-339.1, 339.2-339.3, 339.4-339.5, 339.6-339.7, 339.8-339.9, 340.0-340.1, 340.2-340.3, 340.4-340.5, 340.6-340.7, 340.8-340.9, 341.0-341.1, 341.2-341.3, 341.4-341.5, 341.6-341.7, 341.8-341.9, 342.0-342.1, 342.2-342.3, 342.4-342.5, 342.6-342.7, 342.8-342.9, 343.0-343.1, 343.2-343.3, 343.4-343.5, 343.6-343.7, 343.8-343.9, 344.0-344.1, 344.2-344.3, 344.4-344.5, 344.6-344.7, 344.8-344.9, 345.0-345.1, 345.2-345.3, 345.4-345.5, 345.6-345.7, 345.8-345.9, 346.0-346.1, 346.2-346.3, 346.4-346.5, 346.6-346.7, 346.8-346.9, 347.0-347.1, 347.2-347.3, 347.4-347.5, 347.6-347.7, 347.8-347.9, 348.0-348.1, 348.2-348.3, 348.4-348.5, 348.6-348.7, 348.8-348.9, 349.0-349.1, 349.2-349.3, 349.4-349.5, 349.6-349.7, 349.8-349.9, 350.0-350.1, 350.2-350.3, 350.4-350.5, 350.6-350.7, 350.8-350.9, 351.0-351.1, 351.2-351.3, 351.4-351.5, 351.6-351.7, 351.8-351.9, 352.0-352.1, 352.2-352.3, 352.4-352.5, 352.6-352.7, 352.8-352.9, 353.0-353.1, 353.2-353.3, 353.4-353.5, 353.6-353.7, 353.8-353.9, 354.0-354.1, 354.2-354.3, 354.4-354.5, 354.6-354.7, 354.8-354.9, 355.0-355.1, 355.2-355.3, 355.4-355.5, 355.6-355.7, 355.8-355.9, 356.0-356.1, 356.2-356.3, 356.4-356.5, 356.6-356.7, 356.8-356.9, 357.0-357.1, 357.2-357.3, 357.4-357.5, 357.6-357.7, 357.8-357.9, 358.0-358.1, 358.2-358.3, 358.4-358.5, 358.6-358.7, 358.8-358.9, 359.0-359.1, 359.2-359.3, 359.4-359.5, 359.6-359.7, 359.8-359.9, 360.0-360.1, 360.2-360.3, 360.4-360.5, 360.6-360.7, 360.8-360.9, 361.0-361.1, 361.2-361.3, 361.4-361.5, 361.6-361.7, 361.8-361.9, 362.0-362.1, 362.2-362.3, 362.4-362.5, 362.6-362.7, 362.8-362.9, 363.0-363.1, 363.2-363.3, 363.4-363.5, 363.6-363.7, 363.8-363.9, 364.0-364.1, 364.2-364.3, 364.4-364.5, 364.6-364.7, 364.8-364.9, 365.0-365.1, 365.2-365.3, 365.4-365.5, 365.6-365.7, 365.8-365.9, 366.0-366.1, 366.2-366.3, 366.4-366.5, 366.6-366.7, 366.8-366.9, 367.0-367.1, 367.2-367.3, 367.4-367.5, 367.6-367.7, 367.8-367.9, 368.0-368.1, 368.2-368.3, 368.4-368.5, 368.6-368.7, 368.8-368.9, 369.0-369.1, 369.2-369.3, 369.4-369.5, 369.6-369.7, 369.8-369.9, 370.0-370.1, 370.2-370.3, 370.4-370.5, 370.6-370.7, 370.8-370.9, 371.0-371.1, 371.2-371.3, 371.4-371.5, 371.6-371.7, 371.8-371.9, 372.0-372.1, 372.2-372.3, 372.4-372.5, 372.6-372.7, 372.8-372.9, 373.0-373.1, 373.2-373.3, 373.4-373.5, 373.6-373.7, 373.8-373.9, 374.0-374.1, 374.2-374.3, 374.4-374.5, 374.6-374.7, 374.8-374.9, 375.0-375.1, 375.2-375.3, 375.4-375.5, 375.6-375.7, 375.8-375.9, 376.0-376.1, 376.2-376.3, 376.4-376.5, 376.6-376.7, 376.8-376.9, 377.0-377.1, 377.2-377.3, 377.4-377.5, 377.6-377.7, 377.8-377.9, 378.0-378.1, 378.2-378.3, 378.4-378.5, 378.6-378.7, 378.8-378.9, 379.0-379.1, 379.2-379.3, 379.4-379.5, 379.6-379.7, 379.8-379.9, 380.0-380.1, 380.2-380.3, 380.4-380.5, 380.6-380.7, 380.8-380.9, 381.0-381.1, 381.2-381.3, 381.4-381.5, 381.6-381.7, 381.8-381.9, 382.0-382.1, 382.2-382.3, 382.4-382.5, 382.6-382.7, 382.8-382.9, 383.0-383.1, 383.2-383.3, 383.4-383.5, 383.6-383.7, 383.8-383.9, 384.0-384.1, 384.2-384.3, 384.4-384.5, 384.6-384.7, 384.8-384.9, 385.0-385.1, 385.2-385.3, 385.4-385.5, 385.6-385.7, 385.8-385.9, 386.0-386.1, 386.2-386.3, 386.4-386.5, 386.6-386.7, 386.8-386.9, 387.0-387.1, 387.2-387.3, 387.4-387.5, 387.6-387.7, 387.8-387.9, 388.0-388.1, 388.2-388.3, 388.4-388.5, 388.6-388.7, 388.8-388.9, 389.0-389.1, 389.2-389.3, 389.4-389.5, 389.6-389.7, 389.8-389.9, 390.0-390.1, 390.2-390.3, 390.4-390.5, 390.6-390.7, 390.8-390.9, 391.0-391.1, 391.2-391.3, 391.4-391.5, 391.6-391.7, 391.8-391.9, 392.0-392.1, 392.2-392.3, 392.4-392.5, 392.6-392.7, 392.8-392.9, 393.0-393.1, 393.2-393.3, 393.4-393.5, 393.6-393.7, 393.8-393.9, 394.0-394.1, 394.2-394.3, 394.4-394.5, 394.6-394.7, 394.8-394.9, 395.0-395.1, 395.2-395.3, 395.4-395.5, 395.6-395.7, 395.8-395.9, 396.0-396.1, 396.2-396.3, 396.4-396.5, 396.6-396.7, 396.8-396.9, 397.0-397.1, 397.2-397.3, 397.4-397.5, 397.6-397.7, 397.8-397.9, 398.0-398.1, 398.2-398.3, 398.4-398.5, 398.6-398.7, 398.8-398.9, 399.0-399.1, 399.2-399.3, 399.4-399.5, 399.6-399.7, 399.8-399.9, 400.0-400.1, 400.2-400.3, 400.4-400.5, 400.6-400.7, 400.8-400.9, 401.0-401.1, 401.2-401.3, 401.4-401.5, 401.6-401.7, 401.8-401.9, 402.0-402.1, 402.2-402.3, 402.4-402.5, 402.6-402.7, 402.8-402.9, 403.0-403.1, 403.2-403.3, 403.4-403.5, 403.6-403.7, 403.8-403.9, 404.0-404.1, 404.2-404.3, 404.4-404.5, 404.6-404.7, 404.8

TOM CLAIMS - YUKON

Section 78 + 00

D.D.H. No. 27

0 - 20

Casing

20 - 92

Black graphitic shale with few quartz-carbonate stringers with pyrite.

Lost: 34 - 36, 36.5 - 37, 38.5 - 39, 41.2 - 42.2, 44.6 - 47, 48 - 50.3, 55 - 55.3, 56.4 - 57.6, 60 - 61.7, 63.2 - 65, 67 - 68.2 - 69.4 - 71.5, 74 - 75.7, 77.4 - 79, 80 - 82.3, 83 - 86.3, 87.2 - 88.2, 89.3 - 90, 91.5 - 92.

92 - 173

Hard black massive shale with few narrow fine fragmental beds and few stringers and blebs pyrite (40° @ 100°)

Lost: 129 - 130.6, 132.2 - 133.5, 137.7 - 139

(Hole temporarily stopped at end of season - November 25th, 1952.)

Tom Claims - Yukon

D.D.H. No. 27

-75°

0.0 - 2.0

Casing

20.0 - 92.0

Black graphitic shale, few quartz-carbonate stringers with pyrite.

Lost: 34-36, 36.5-37, 38.5-39, 41.2-42.2, 44.6-47, 48.0-50.3, 55-55.3, 56.4-57.6, 60-61.7, 63.2-65, 67-68.2, 69.4-71.5, 74-75.7, 77.4-79, 80-82.3, 83-86.3, 87.2-88.2, 89.3-90, 91.5-92.

92.0 - 254.3

Hard black massive shale, few fine fragmental beds & 123 feet, rusty fracture & 146 feet, few stringers and blebs of pyrite throughout.

Lost: 129-130.6, 132.2-133.5, 137.7-139, 174.2-175.9, 176.3-177.1, 179.2-180, 181.4-182.6, 186.9-188.3, 190-191.7, 192-193.2, 194.2-195.0, 196.2-197.6, 198-199, 200.2-201.2, 202.1-203, 204-204.1.

Shale generally alters to graphitic schist in the immediate vicinity of stringers.

254.3 - 254.6

Solid sulfide, fine grained pyrite & 15' to 20'.

254.6 - 346.2

Black graphitic shale, locally hard massive, local slight fine grained disseminated pyrite, occasional cherty fragments.

Lost: 265-266.1, 269.2-270, 270.9-271.2, 274.2-275.1, 279.2-280, 281.7-282.7, 284.2-285, 286-286.7, 287.3-288, 290-290.4, 291.7-291.8, 302-303.1, 305-306, 308-309, 311.2-315, 317.7-318.8

346.2 - 349.9

Quartz carbonate stringer zone, numerous small cherty nodules inclusions, numerous small nodules with disseminated quartz crystals, slightly silicified with fine grained pyrite.

349.9 - 350.0

Black graphitic shale.

350.0 - 354.0

Silicified to 354.0 - 354.0

354.0 - 353.7

Lost core

353.7 - 352.7

Graphitic shale, narrow quartz-carbonate stringers,

352.7 - 355.0

Lost core

355.0 - 357.4

Graphitic shale, numerous very narrow stringers of quartz and calcite, several 1/8 to 1/2" bands of cherty material, fine grained pyrite.

357.4 - 359.9

Lost core

359.9 - 360.0

Graphitic shale

D. 1.4. 20' contd.

- 2 -

- 470.0-471.7 Rare removed only in narrow sections, badly broken and ground, very soft, friable shale, highly eroded and decayed. Gavins at 267.
- 471.7-472.5 Slightly graphitic shale, several 1/4 inch solid sulphide, fine grained pyrite bands and discontinuous lenses, several narrow fragmental beds and fine to medium grained conglomerate beds, becoming more numerous from 470.3 feet to 470.5 feet.
- 472.5-473.1 Shaded grey and black shale, numerous very narrow bands of fine grain fragments with associated fine grained pyrite.
- 473.1-473.1 Conglomerate, fine grained at 473.1, becoming coarse grained approaching 470.1, local disseminated pyrite.
- 473.1-473.1 Black argillitic shale, several narrow fragmental bands.
- 473.1-473.6 Coarse grained conglomerate, graphitic matrix.
- 473.6-473.7 Argillitic shale, sparse very narrow carbonate stringers, occasional narrow streaks of very fine grained pyrite. Local narrow grey shale bands and narrow fragmental beds. Graphitic mud = 451.6, 456.3, 461.8.
- 473.7-473.6 Lost com.
- 473.6-473.9 Hard black shale, locally argillitic and graphitic. Occasional bands of fine grained disseminated pyrite and narrow bands of solid sulphide, pyrite.
- Lost: 474.1-477.6, 483.8-485, 485.9-486.9, 491-492, 497.1-498.5, 505-507.6, 520-521.8, 536.8-538, 541.9-543, 545.7-550, 555.7-556.8, 609.5-610, 610.5-611.5, 612.1-613.1, 613.9-614.5, 621.9-622.5, 622.9-624, 625-626.2, 629.6-631, 632-634.1, 637-638.1, 639.3, 641-641.4, 642.1-642.9, 643.7-644.8, 646-646.8, 648.5-650.1, 651.5-651.9, 653.2-653.8, 655.2-655, 661.1-662.1, 663.2-663.8, 664.5-665, 707.1-707.9, 712.4-713.1, 714.1-715, 716.1-716.2, 717.5-717.6.1
- 737.9-753.0 Black argillite, slightly graphitic shale, occasional narrow irregular carbonate, calcite, quartz stringers.
- 753.0-794.3 Hard black shale, numerous interbedded bands of greywacke. Lost: 774.1-774, 784.6-785, 789.4-790.

D. 1.4. 20' contd.

- 794.3-794.0 Irregular, thin, grey, calcareous, sandy shale.
- 794.0-794.0 Hard black shale, numerous narrow bands of greywacke, occasional fragmental beds of pyrite.
- 794.0-794.0 Shaded grey and black shale, numerous very narrow bands of fine grain fragments with associated fine grained pyrite.
- 794.0-794.0 Interbedded shale and greywacke.
- 794.0-794.0 Black shale and thin, grained shale.
- 794.0-794.0 Interbedded shale and greywacke. Lost: 809.5-810.1, 892.5-893.1, 900-902.2, 903.2-903, 907.1-907.
- 911.8-951.9 Fine to medium grained conglomerate, coarse sand, bands of shale, occasional narrow quartz stringers.
- 951.0 End of 20'.

Ten Claims - Yukon

D.P.R. - No. 24-A

-44°

7.0-18.0	Quartz
48.0-48.4	Lost Core
48.4-48.6	Black argillitic shale
48.6-48.8	Lost Core
48.8-50.0	Black argillitic shale
50.0-50.7	Lost Core
52.7-54.3	Black argillitic, slightly graphitic shale, local disseminated fine grained pyrite.
54.3-55.0	Lost Core
55.0-55.3	Argillitic, slightly graphitic shale. Lost Core: 55.4-56.3, 57.2-57.7, 58.1-59.3
54.3-80.5	Hard black shale, slight disseminated, fine grained pyrite. Lost Core: 60.2-60.7, 61.1-62.6, 63.1-64.6, 65.0-66.4, 65.4-66.1, 67.5-68.8, 69.2-71.5, 72.2-73.9, 74.4-74.9, 79-79.6, 80-80.5
80.5-81.9	Graphitic shale, occasional very narrow streaks of fine grained pyrite with some disseminated pyrite.
81.9-83.1	Lost Core.
83.1-100.7	Black slightly graphitic and argillitic shale Lost Core: 84.2-85, 85.5-86.1, 87-88.12, 88.6-89.1, 89.6-90.7, 91.6-92.4, 87-92.5, 94.4-95.5, 95.8-96.6, 97.3-98.1, 98.7-99.1.
100.7-101.7	Lost Core
101.7-108.1	Black slightly argillitic shale, occasional graphitic slips, occasional narrow fine grained pyrite bands and lenses.
108.1-110.0	Lost Core
110.0-110.3	Black argillitic shale
110.3-110.6	Lost Core
110.6-110.8	Black argillitic shale, well mineralized with fine grained pyrite.

D.P.R. No. 28-A contd.

110.8-111.6	Lost Core
111.6-112.9	quartz porphyry in part mineralized with fine grained disseminated pyrite.
112.2-113.7	Lost Core
113.7-115.0	Black argillitic shale. Lost core 113.7-115.0.
115.0-115.6	quartz porphyry, mineralized with fine grained disseminated pyrite.
115.6-117.7	Lost Core
117.7-118.0	quartz porphyry
118.0-125.0	Black argillitic shale, parts slightly sheared and graphitic, slight disseminated pyrite. Lost Core - 118.6-119.6, 121.1-121.5, 122.4-123.7, 124-124.4
125.0-127.8	fragmental zone, numerous angular to rounded fragments or rebar in a graphitic matrix. Lost Core: 126.1-127.4
127.8-130.0	Interbedded black argillitic shale and conglomerate
130.0-150.4	Conglomerate, slight disseminated fine grained pyrite, in part fragmental beds similar to 125-127.8. Probably a conglomerate of true conglomerate. Lost Core: 130-130.4, 130.9-131.4, 132-132.4, 133.4-134.2, 134.6-135.2, 136.1-136.4, 137.4-137.7, 138-139, 139.5-140, 140.6-141, 141.4-141.7, 142-142.5, 146.2-147.2, 149.5-150.
150.4-175.0	Black argillitic shale, well mineralized with fine grained pyrite, occasional narrow fine grained pyrite bands and lenses, occasional narrow fine grained pyrite bands and lenses.
175.0-176.0	Lost Core
176.0-177.7	Graphitic shale, slight disseminated fine grained pyrite, 3 inch and over at 177.4 feet.
177.7-181.8	Argillitic
181.8-182.6	Black argillitic shale
182.6-212.0	Fine grained pyrite, local narrow and thin beds. Lost Core: 182.6-183.0, 183.2-183.9, 184.4-184.7, 185-185.4, 186.1-186.7, 187.4-187.7

— 4 —

440

-350

-350

0.0- 32.7	Casing
32.7- 57.0	Soft argillitic shale, parts slightly sandstone, argillitic. Sparse narrow quartz calcite stringers and disseminated fine grained pyrite. Lost Core: 39.3-40.4, 45-45.5, 46.4-47.4, 49-49.8, 46-51, 51.6-57.
57.0- 57.6	Sand or finely ground shale.
57.6- 58.4	Lost Core
58.4-150.3	Soft argillitic graphitic shale, disseminated fine grained pyrite.
150.3-152.8	Sheared argillitic calcite specked shale.
152.8-153.9	Lost Core
153.9-155.0	Sheared argillitic calcite specked shale.
155.0-155.9	Lost Core
155.9-161.2	Slightly schistose argillitic shale, occasional very narrow calcite carbonate stringers, visible fine grained pyrite.
161.2-162.7	Lost Core
162.7-163.8	Conglomerate
163.8-165.0	Lost Core
165.0-166.4	Black argillitic shale, visible, fine grained, pyrite.
166.4-167.0	Nearly solid sulphide, fine grained pyrite at low angle to core.
167.0-167.2	Conglomerate or fragmental bed.
167.2-168.2	Lost Core
168.2-168.5	Black argillitic shale Lost Core: 175-176.3, 177.2-179.0, 179.5-180.5
180.5-195.0	Quartz rockhym highly weathered and argillitic. Lost Core: 186.0-187.0, 187.4-187.5, 188.0-188.5, 189.0-189.5, 190.0-190.5, 191.0-191.5, 192.0-192.5, 193.0-193.5, 194.0-194.5, 195.0-195.5
195.0-195.8	Broken core, argillitic shale, sand and calcite, argillitic mineralized with medium grained pyrite.

- 195.9-198.7 Lost core.
- 198.7-199.5 Graphitic shale, quartz stringers and stringer breccia, slight pyrite.
- 199.5-200.4 Conglomerate or fragmental bed, associated graphitic shale, and quartz stringers, slight pyrite.
- 200.4-201.0 Lost Core.
- 201.0-202.6 Argillitic graphitic shale, few scattered pebbles, slight pyrite.
- 202.6-205.0 Lost Core
- 205.0-206.0 Argillitic graphitic shale.
- 206.0-214.4 Lost Core.
- 214.4-226.4 Black, fairly hard, argillitic shale, occasional graphitic slips, occasional narrow pebble beds generally well mineralized with fine grained pyrite, disseminated very fine grained pyrite throughout.
- 226.4-228.6 Argillitic graphitic schist, occasional pebbles.
Lost Core: 227.6-228.5
- 228.6-230.9 Argillitic graphitic schist, fairly numerous, very narrow, irregular discontinuous, calcite stringers, slight to mineralized with medium grained disseminated pyrite.
- 230.9-231.5 Graphitic fragmental zone, slight pyrite.
- 231.5-250.0 Schistose graphitic argillitic shale, sparse narrow irregular calcite stringers, stringers becoming more numerous from 238.4
Lost Core: 253.5-254, 236.8-347.3, 239.2-239.8, 244.0-245.0, 247.0-249.5.
- 250.0-252.3 Lost Core
- 252.3-253.4 Broken, reground core, graphitic argillitic shale, some quartz.
- 253.4-259.6 Argillitic shale, fairly numerous isolated pebbles and inclusions of conglomerate.
- 259.6-262.6 Conglomerate, locally eroded and leached. Contact @ 262.6, sharp irregular @ 45°.
- 262.6-264.5 Interbedded shale and greywacke, local isolated pebbles.

- 264.6-265.7 Conglomerate
- 265.7-269.7 Interbedded shale and greywacke, few contorted shear zones, occasional isolated pebbles.
- 269.7-272.0 Conglomerate. Lost: 271.0-271.6
- 272.0-288.4 Argillitic shale, fairly numerous isolated pebbles and pebble beds.
Lost Core: 272.6-273.6, 275.8-276.5.
- 288.4-290.5 Conglomerate
- 290.5-318.0 Argillitic shale, isolated pebbles.
Lost Core: 299-299.6, 310.9-312.6
- 318.0-321.8 Greywacke
- 321.8-325.4 Lost Core
- 325.4-326.3 Conglomerate, greywacke, shale.
- 326.3-327.0 Lost Core
- 327.0-327.5 Fine grained conglomerate.
- 327.5-327.7 Hard black shale
- 327.7-329.0 Lost Core
- 329.0-330.0 Shale and conglomerate
- 330.0-332.0 Lost Core
- 332.0-334.0 Coarse grained conglomerate
- 334.0-335.0 Lost Core
- 335.0-339.3 Black shale, occasional pebble beds, slight pyrite.
- 339.3-340.7 Lost Core
- 340.7-342.0 Conglomerate, shale matrix.
- 342.0-348.2 Black slightly graphitic shale, slight fine grained conglomerate.
Lost Core: 343-343.9
- 348.2-351.6 Lost Core

351.6-352.6 Broken core, argillitic graphite shale, several $<1/8$ " quartz stringers, few disseminated pyrite in shale.

352.6-355.5 Lost Core.

355.5-356.0 Broken Core, argillitic shale.

356.0-359.8 Lost Core

359.8-360.0 Argillitic shale

360.0-360.7 Lost Core

360.7-361.1 Broken core, argillitic shale

361.1-363.0 Lost Core

363.0-368.0 Graphitic argillitic shale, fairly numerous narrow white quartz stringers along and across core, slight fine disseminated pyrite in stringers, in part quartz filled tension fractures.

368.0-372.0 Graphitic schist, fairly numerous stringers, similar to 363 to 368.

372.0-372.8 Lost Core.

372.8-382.1 Broken core, graphitic schist and argillitic shale, sparse stringers.

382.1-387.0 Lost Core.

387.0-392.5 Finely ground core or black sand, composed of shale, graphitic shale and quartz, slight pyrite.

392.5-393.6 Lost Core.

393.6-400.0 Broken core, sand, argillitic shale.
Lost Core: 399.4-399.6

400.0-401.0 Lost Core

401.0-409.5 Black sand or ground core.

409.5-410.0 Hard black shale.

410.0-412.0 Black sand, occasional pieces of hard black shale.

412.0-413.5 Lost Core

413.5-414.2 Hard black shale

414.2-416.0 Lost Core

416.0-416.9 Mud and broken core, black shale.

416.9-417.6 Lost Core

417.6-438.0 Hard black shale, slight greywacke.
Lost Core: 418.1-418.2, 422.5-423.3.

438.0-450.8 Greywacke, interbedded black shale, slight pyrite.

450.8-451.4 Black shale, interbedded greywacke

451.4-452.0 Black sand, 60% shale, 40% quartz, slight to mineralized with pyrite.

452.0-486.4 Hard black shale.
Lost Core: 444.0-445.0, 447.4-448.4, 449.2-449.3, 472.1-473.2, 474.5-475, 475.4-477.2, 477.2-478.2.

486.4-490.0 Lost Core

490.0 END OF HOLE

* Perma-frost at bottom of hole, rods freezing in.

Tom Claims - Yukon

D.D.H. - No. 30

-40°

- 0.0-53.0 Casing
- 53.0-90.9 Argillitic shale, leached, very soft, local limonite stain, sparse very narrow quartz calcite stringers, slight disseminated pyrite.
Lost Core: 58.7-59.3, 61.4-62.1, 63-63.9, 66.4-67.6, 70.8-72.1, 74-75, 77-77.9, 79.5-80.8, 81.5-82.3, 82.8-83.6, 84.5-85.0, 85.5-86.3, 87.9-89.3.
- 90.9-91.9 Lost Core
- 91.9-129.2 Fairly hard black shale, occasional graphitic schist zones with associated very narrow stringers and very slight pyrite.
Lost Core: 94-94.9, 95.4-96, 102.9-103.4, 113.5-115.0, 117.7-119.2, 121.2-122.5, 123-124.3, 125.9-127.9, 128.5-129.2
- 129.2-134.6 Grey and black shale.
Lost Core: 131.4-132.1, 133.1-133.4
- 134.6-135.8 Lost Core
- 135.8-171.8 Hard black shale, parts leached, occasional narrow graphitic schist zones.
Lost Core: 136.5-137.1, 138.8-141.1, 143.1-145.6, 148-148.9, 153.8-155, 159.2-160.5, 161.5-163.2, 164.8-165, 168.1-171.1
- 171 Graphitic schist numerous very narrow irregular quartz calcite stringers, visible disseminated pyrite.
- 171.8-173.0 Hard black shale, locally slightly leached. Occasional narrow graphitic zones.
Lost Core: 175.7-177.0, 177.9-180.0, 180.7-181.2, 182-183.4, 184.2-185, 185.5-187.5, 189-190, 190.8-191.9, 193.1-193.8, 194.1-195, 195.5-195.8, 197.3-198.4, 199.4-200, 201.2-202.5, 208.1-203.6, 205.7-206.6, 207-208.5, 213.5-214.7, 224.4-225.0, 227.8-228.6, 231.9-232.6,
- 243.3-245.5 Graphitic fragmental zone.
- 245.5-255.0 Black slightly argillitic shale
Lost Core: 246.9-248.0, 249.2-251.1
- 255.0-256.6 Fragments and conglomerate.

D.D.H. - No. 30 cont.

- 2 -

- 256.6-307.9 Black shale, fairly numerous narrow bands of pyritized alteration.
Lost Core: 257.5-258.7, 259.6-260.0, 262.2-263.0, 267.5-268.5, 269.5-270.0, 271.8-272.1, 273.5-274.0, 275.5-276.0, 277.5-280.0, 282.3-283.1, 284.5-285.0, 287.7-288.6, 296.3-297.3, 301-302.2.
- 307.9-308.4 Quartz calcite stringer breccia zone with associated graphitic schist, mineralized with disseminated pyrite.
- 308.4-350.0 Black shale, very sparse narrow quartz calcite stringers.
Lost 308.7-310, 311.1-311.7, 314.0-315.0, 316.6-317.7, 319-321, 322.5-323.5, 328.7-330.2, 332.2-333.3, 334.6-335.0, 336.6-338.2, 338.8-340.0, 346.8-348.2.
- 350.0-388.5 Badly broken core, argillitic, slightly graphitic shale, sparse narrow stringers and pyritized bands.
Lost: 350.7-351.7, 352.9-363.8, 361.5-367.5, 363-365, 365.7-366.4, 367.2-367.6, 368.8-369.1, 370-371.1, 372-372.7, 373.7-374.2, 375-375.9, 376.8-378.8, 379-380, 381-381.5, 382.3-382.7, 384.3-385.0.
- 388.5-393.1 Graphitic schist, fairly narrow, irregular, discontinuous quartz stringers, and slight disseminated pyrite.
Lost Core: 389.6-390.
- 393.1-396.2 Argillitic shale, visible pyrite
- 396.2-399.5 Graphitic schist, sparse 1/16 inch quartz stringers, visible pyrite.
- 399.5-437.5 Argillitic slightly graphitic schist, sparse narrow quartz calcite stringers, occasional narrow pyritized bands.
Lost Core: 406-406.6, 411.0-411.7, 412.6-414.5, 417.8-418.5, 421.1-421.9, 422.1-422.2, 423.1-423.2, 424.1-424.2, 425.1-425.2, 426.1-426.2, 427.1-427.2, 428.1-428.2, 429.1-429.2, 430.1-430.2, 431.1-431.2, 432.1-432.2, 433.1-433.2, 434.1-434.2, 435.1-435.2, 436.1-436.2, 437.1-437.2, 438.1-438.2, 439.1-439.2, 440.1-440.2, 441.1-441.2, 442.1-442.2, 443.1-443.2, 444.1-444.2, 445.1-445.2, 446.1-446.2, 447.1-447.2, 448.1-448.2, 449.1-449.2, 450.1-450.2, 451.1-451.2, 452.1-452.2, 453.1-453.2, 454.1-454.2, 455.1-455.2, 456.1-456.2, 457.1-457.2, 458.1-458.2, 459.1-459.2, 460.1-460.2, 461.1-461.2, 462.1-462.2, 463.1-463.2, 464.1-464.2, 465.1-465.2, 466.1-466.2, 467.1-467.2, 468.1-468.2, 469.1-469.2, 470.1-470.2, 471.1-471.2, 472.1-472.2, 473.1-473.2, 474.1-474.2, 475.1-475.2, 476.1-476.2, 477.1-477.2, 478.1-478.2, 479.1-479.2, 480.1-480.2, 481.1-481.2, 482.1-482.2, 483.1-483.2, 484.1-484.2, 485.1-485.2, 486.1-486.2, 487.1-487.2, 488.1-488.2, 489.1-489.2, 490.1-490.2, 491.1-491.2, 492.1-492.2, 493.1-493.2, 494.1-494.2, 495.1-495.2, 496.1-496.2, 497.1-497.2, 498.1-498.2, 499.1-499.2, 500.1-500.2, 501.1-501.2, 502.1-502.2, 503.1-503.2, 504.1-504.2, 505.1-505.2, 506.1-506.2, 507.1-507.2, 508.1-508.2, 509.1-509.2, 510.1-510.2, 511.1-511.2, 512.1-512.2, 513.1-513.2, 514.1-514.2, 515.1-515.2, 516.1-516.2, 517.1-517.2, 518.1-518.2, 519.1-519.2, 520.1-520.2, 521.1-521.2, 522.1-522.2, 523.1-523.2, 524.1-524.2, 525.1-525.2, 526.1-526.2, 527.1-527.2, 528.1-528.2, 529.1-529.2, 530.1-530.2, 531.1-531.2, 532.1-532.2, 533.1-533.2, 534.1-534.2, 535.1-535.2, 536.1-536.2, 537.1-537.2, 538.1-538.2, 539.1-539.2, 540.1-540.2, 541.1-541.2, 542.1-542.2, 543.1-543.2, 544.1-544.2, 545.1-545.2, 546.1-546.2, 547.1-547.2, 548.1-548.2, 549.1-549.2, 550.1-550.2, 551.1-551.2, 552.1-552.2, 553.1-553.2, 554.1-554.2, 555.1-555.2, 556.1-556.2, 557.1-557.2, 558.1-558.2, 559.1-559.2, 560.1-560.2, 561.1-561.2, 562.1-562.2, 563.1-563.2, 564.1-564.2, 565.1-565.2, 566.1-566.2, 567.1-567.2, 568.1-568.2, 569.1-569.2, 570.1-570.2, 571.1-571.2, 572.1-572.2, 573.1-573.2, 574.1-574.2, 575.1-575.2, 576.1-576.2, 577.1-577.2, 578.1-578.2, 579.1-579.2, 580.1-580.2, 581.1-581.2, 582.1-582.2, 583.1-583.2, 584.1-584.2, 585.1-585.2, 586.1-586.2, 587.1-587.2, 588.1-588.2, 589.1-589.2, 590.1-590.2, 591.1-591.2, 592.1-592.2, 593.1-593.2, 594.1-594.2, 595.1-595.2, 596.1-596.2, 597.1-597.2, 598.1-598.2, 599.1-599.2, 600.1-600.2, 601.1-601.2, 602.1-602.2, 603.1-603.2, 604.1-604.2, 605.1-605.2, 606.1-606.2, 607.1-607.2, 608.1-608.2, 609.1-609.2, 610.1-610.2, 611.1-611.2, 612.1-612.2, 613.1-613.2, 614.1-614.2, 615.1-615.2, 616.1-616.2, 617.1-617.2, 618.1-618.2, 619.1-619.2, 620.1-620.2, 621.1-621.2, 622.1-622.2, 623.1-623.2, 624.1-624.2, 625.1-625.2, 626.1-626.2, 627.1-627.2, 628.1-628.2, 629.1-629.2, 630.1-630.2, 631.1-631.2, 632.1-632.2, 633.1-633.2, 634.1-634.2, 635.1-635.2, 636.1-636.2, 637.1-637.2, 638.1-638.2, 639.1-639.2, 640.1-640.2, 641.1-641.2, 642.1-642.2, 643.1-643.2, 644.1-644.2, 645.1-645.2, 646.1-646.2, 647.1-647.2, 648.1-648.2, 649.1-649.2, 650.1-650.2, 651.1-651.2, 652.1-652.2, 653.1-653.2, 654.1-654.2, 655.1-655.2, 656.1-656.2, 657.1-657.2, 658.1-658.2, 659.1-659.2, 660.1-660.2, 661.1-661.2, 662.1-662.2, 663.1-663.2, 664.1-664.2, 665.1-665.2, 666.1-666.2, 667.1-667.2, 668.1-668.2, 669.1-669.2, 670.1-670.2, 671.1-671.2, 672.1-672.2, 673.1-673.2, 674.1-674.2, 675.1-675.2, 676.1-676.2, 677.1-677.2, 678.1-678.2, 679.1-679.2, 680.1-680.2, 681.1-681.2, 682.1-682.2, 683.1-683.2, 684.1-684.2, 685.1-685.2, 686.1-686.2, 687.1-687.2, 688.1-688.2, 689.1-689.2, 690.1-690.2, 691.1-691.2, 692.1-692.2, 693.1-693.2, 694.1-694.2, 695.1-695.2, 696.1-696.2, 697.1-697.2, 698.1-698.2, 699.1-699.2, 700.1-700.2, 701.1-701.2, 702.1-702.2, 703.1-703.2, 704.1-704.2, 705.1-705.2, 706.1-706.2, 707.1-707.2, 708.1-708.2, 709.1-709.2, 710.1-710.2, 711.1-711.2, 712.1-712.2, 713.1-713.2, 714.1-714.2, 715.1-715.2, 716.1-716.2, 717.1-717.2, 718.1-718.2, 719.1-719.2, 720.1-720.2, 721.1-721.2, 722.1-722.2, 723.1-723.2, 724.1-724.2, 725.1-725.2, 726.1-726.2, 727.1-727.2, 728.1-728.2, 729.1-729.2, 730.1-730.2, 731.1-731.2, 732.1-732.2, 733.1-733.2, 734.1-734.2, 735.1-735.2, 736.1-736.2, 737.1-737.2, 738.1-738.2, 739.1-739.2, 740.1-740.2, 741.1-741.2, 742.1-742.2, 743.1-743.2, 744.1-744.2, 745.1-745.2, 746.1-746.2, 747.1-747.2, 748.1-748.2, 749.1-749.2, 750.1-750.2, 751.1-751.2, 752.1-752.2, 753.1-753.2, 754.1-754.2, 755.1-755.2, 756.1-756.2, 757.1-757.2, 758.1-758.2, 759.1-759.2, 760.1-760.2, 761.1-761.2, 762.1-762.2, 763.1-763.2, 764.1-764.2, 765.1-765.2, 766.1-766.2, 767.1-767.2, 768.1-768.2, 769.1-769.2, 770.1-770.2, 771.1-771.2, 772.1-772.2, 773.1-773.2, 774.1-774.2, 775.1-775.2, 776.1-776.2, 777.1-777.2, 778.1-778.2, 779.1-779.2, 780.1-780.2, 781.1-781.2, 782.1-782.2, 783.1-783.2, 784.1-784.2, 785.1-785.2, 786.1-786.2, 787.1-787.2, 788.1-788.2, 789.1-789.2, 790.1-790.2, 791.1-791.2, 792.1-792.2, 793.1-793.2, 794.1-794.2, 795.1-795.2, 796.1-796.2, 797.1-797.2, 798.1-798.2, 799.1-799.2, 800.1-800.2, 801.1-801.2, 802.1-802.2, 803.1-803.2, 804.1-804.2, 805.1-805.2, 806.1-806.2, 807.1-807.2, 808.1-808.2, 809.1-809.2, 810.1-810.2, 811.1-811.2, 812.1-812.2, 813.1-813.2, 814.1-814.2, 815.1-815.2, 816.1-816.2, 817.1-817.2, 818.1-818.2, 819.1-819.2, 820.1-820.2, 821.1-821.2, 822.1-822.2, 823.1-823.2, 824.1-824.2, 825.1-825.2, 826.1-826.2, 827.1-827.2, 828.1-828.2, 829.1-829.2, 830.1-830.2, 831.1-831.2, 832.1-832.2, 833.1-833.2, 834.1-834.2, 835.1-835.2, 836.1-836.2, 837.1-837.2, 838.1-838.2, 839.1-839.2, 840.1-840.2, 841.1-841.2, 842.1-842.2, 843.1-843.2, 844.1-844.2, 845.1-845.2, 846.1-846.2, 847.1-847.2, 848.1-848.2, 849.1-849.2, 850.1-850.2, 851.1-851.2, 852.1-852.2, 853.1-853.2, 854.1-854.2, 855.1-855.2, 856.1-856.2, 857.1-857.2, 858.1-858.2, 859.1-859.2, 860.1-860.2, 861.1-861.2, 862.1-862.2, 863.1-863.2, 864.1-864.2, 865.1-865.2, 866.1-866.2, 867.1-867.2, 868.1-868.2, 869.1-869.2, 870.1-870.2, 871.1-871.2, 872.1-872.2, 873.1-873.2, 874.1-874.2, 875.1-875.2, 876.1-876.2, 877.1-877.2, 878.1-878.2, 879.1-879.2, 880.1-880.2, 881.1-881.2, 882.1-882.2, 883.1-883.2, 884.1-884.2, 885.1-885.2, 886.1-886.2, 887.1-887.2, 888.1-888.2, 889.1-889.2, 890.1-890.2, 891.1-891.2, 892.1-892.2, 893.1-893.2, 894.1-894.2, 895.1-895.2, 896.1-896.2, 897.1-897.2, 898.1-898.2, 899.1-899.2, 900.1-900.2, 901.1-901.2, 902.1-902.2, 903.1-903.2, 904.1-904.2, 905.1-905.2, 906.1-906.2, 907.1-907.2, 908.1-908.2, 909.1-909.2, 910.1-910.2, 911.1-911.2, 912.1-912.2, 913.1-913.2, 914.1-914.2, 915.1-915.2, 916.1-916.2, 917.1-917.2, 918.1-918.2, 919.1-919.2, 920.1-920.2, 921.1-921.2, 922.1-922.2, 923.1-923.2, 924.1-924.2, 925.1-925.2, 926.1-926.2, 927.1-927.2, 928.1-928.2, 929.1-929.2, 930.1-930.2, 931.1-931.2, 932.1-932.2, 933.1-933.2, 934.1-934.2, 935.1-935.2, 936.1-936.2, 937.1-937.2, 938.1-938.2, 939.1-939.2, 940.1-940.2, 941.1-941.2, 942.1-942.2, 943.1-943.2, 944.1-944.2, 945.1-945.2, 946.1-946.2, 947.1-947.2, 948.1-948.2, 949.1-949.2, 950.1-950.2, 951.1-951.2, 952.1-952.2, 953.1-953.2, 954.1-954.2, 955.1-955.2, 956.1-956.2, 957.1-957.2, 958.1-958.2, 959.1-959.2, 960.1-960.2, 961.1-961.2, 962.1-962.2, 963.1-963.2, 964.1-964.2, 965.1-965.2, 966.1-966.2, 967.1-967.2, 968.1-968.2, 969.1-969.2, 970.1-970.2, 971.1-971.2, 972.1-972.2, 973.1-973.2, 974.1-974.2, 975.1-975.2, 976.1-976.2, 977.1-977.2, 978.1-978.2, 979.1-979.2, 980.1-980.2, 981.1-981.2, 982.1-982.2, 983.1-983.2, 984.1-984.2, 985.1-985.2, 986.1-986.2, 987.1-987.2, 988.1-988.2, 989.1-989.2, 990.1-990.2, 991.1-991.2, 992.1-992.2, 993.1-993.2, 994.1-994.2, 995.1-995.2, 996.1-996.2, 997.1-997.2, 998.1-998.2, 999.1-999.2, 1000.1-1000.2, 1001.1-1001.2, 1002.1-1002.2, 1003.1-1003.2, 1004.1-1004.2, 1005.1-1005.2, 1006.1-1006.2, 1007.1-1007.2, 1008.1-1008.2, 1009.1-1009.2, 1010.1-1010.2, 1011.1-1011.2, 1012.1-1012.2, 1013.1-1013.2, 1014.1-1014.2, 1015.1-1015.2, 1016.1-1016.2, 1017.1-1017.2, 1018.1-1018.2, 1019.1-1019.2, 1020.1-1020.2, 1021.1-1021.2, 1022.1-1022.2, 1023.1-1023.2, 1024.1-1024.2, 1025.1-1025.2, 1026.1-1026.2, 1027.1-1027.2, 1028.1-1028.2, 1029.1-1029.2, 1030.1-1030.2, 1031.1-1031.2, 1032.1-1032.2, 1033.1-1033.2, 1034.1-1034.2, 1035.1-1035.2, 1036.1-1036.2, 1037.1-1037.2, 1038.1-1038.2, 1039.1-1039.2, 1040.1-1040.2, 1041.1-1041.2, 1042.1-1042.2, 1043.1-1043.2, 1044.1-1044.2, 1045.1-1045.2, 1046.1-1046.2, 1047.1-1047.2, 1048.1-1048.2, 1049.1-1049.2, 1050.1-1050.2, 1051.1-1051.2, 1052.1-1052.2, 1053.1-1053.2, 1054.1-1054.2, 1055.1-1055.2, 1056.1-1056.2, 1057.1-1057.2, 1058.1-1058.2, 1059.1-1059.2, 1060.1-1060.2, 1061.1-1061.2, 1062.1-1062.2, 1063.1-1063.2, 1064.1-1064.2, 1065.1-1065.2, 1066.1-1066.2, 1067.1-1067.2, 1068.1-1068.2, 1069.1-1069.2, 1070.1-1070.2, 1071.1-1071.2, 1072.1-1072.2, 1073.1-1073.2, 1074.1-1074.2, 1075.1-1075.2, 1076.1-1076.2, 1077.1-1077.2, 1078.1-1078.2, 1079.1-1079.2, 1080.1-1080.2, 1081.1-1081.2, 1082.1-1082.2, 1083.1-1083.2, 1084.1-1084.2, 1085.1-1085.2, 1086.1-1086.2, 1087.1-1087.2, 1088.1-1088.2, 1089.1-1089.2, 1090.1-1090.2, 1091.1-1091.2, 1092.1-1092.2, 1093.1-1093.2, 1094.1-1094.2, 1095.1-1095.2, 1096.1-1096.2, 1097.1-1097.2, 1098.1-1098.2, 1099.1-1099.2, 1100.1-1100.2, 1101.1-1101.2, 1102.1-1102.2, 1103.1-1103.2, 1104.1-1104.2, 1105.1-1105.2, 1106.1-1106.2, 1107.1-1107.2, 1108.1-1108.2, 1109.1-1109.2, 1110.1-1110.2, 1111.1-1111.2, 1112.1-1112.2, 1113.1-1113.2, 1114.1-1114.2, 1115.1-1115.2, 1116.1-1116.2, 1117.1-1117.2, 1118.1-1118.2, 1119.1-1119.2, 1120.1-1120.2, 1121.1-1121.2, 1122.1-1122.2, 1123.1-1123.2, 1124.1-1124.2, 1125.1-1125.2, 1126.1-1126.2, 1127.1-1127.2, 1128.1-1128.2, 1129.1-1129.2, 1130.1-1130.2, 1131.1-1131.2, 1132.1-1132.2, 1133.1-1133.2, 1134.1-1134.2, 1135.1-1135.2, 1136.1-1136.2, 1137.1-1137.2, 1138.1-1138.2, 1139.1-1139.2, 1140.1-1140.2, 1141.1-1141.2, 1142.1-1142.2, 1143.1-1143.2, 1144.1-1144.2, 1145.1-1145.2, 1146.1-1146.2, 1147.1-1147.2, 1148.1-1148.2, 1149.1-1149.2, 1150.1-1150.2, 1151.1-1151.2, 1152.1-1152.2, 1153.1-1153.2, 1154.1-1154.2, 1155.1-1155.2, 1156.1-1156.2, 1157.1-1157.2, 1158.1-1158.2, 1159.1-1159.2, 1160.1-1160.2, 1161.1-1161.2, 1162.1-1162.2, 1163.1-1163.2, 1164.1-1164.2, 1165.1-1165.2, 1166.1-1166.2, 1167.1-1167.2, 1168.1-1168.2, 1169.1-1169.2, 1170.1-1170.2, 1171.1-1171.2, 1172.1-1172.2, 1173.1-1173.2, 1174.1-1174.2, 1175.1-1175.2, 1176.1-1176.2, 1177.1-1177.2, 1178.1-1178.2, 117

477.3-500.7 Lost Core: 481.2-482.3, 482.8-483.4, 487.7-488.6, 493.2-493.9
 500.7-500.0 Core recovery only 10%. Principally sand, grit and very loosely cemented leached conglomerate. Heavy water flow beginning at 500.7 feet. Numerous 2 foot sections drilled with blast bit.
 500.0 END OF HOLE.

TC1 CLARIS - YUKON.

D.D.H. No. 21 -40 Sec. 100, 400 N.

C-200.1 Casing (Rounded to 100.0)

103.1-103.5 Black slightly argillitic shale, occasional narrow graphitic zones with very narrow quartz stringers. Slight disseminated pyrite throughout.

Lost core: 113.1-113.6, 115.0-115.5, 115.9-117.6, 118.5-120.0, 122.1-122.8, 124.1-124.6, 125.0-126.0, 126.6-127.1, 127.6-128.3, 128.6-129.2, 129.6-129.9, 131.0-131.9, 132.6-133.0, 133.6-134.7, 135.0-135.6, 138.5-139.0, 144.5-146.0, 147.1-148.0, 150.0-152.5, 152.9-153.7, 154.0-154.5, 155.0-155.5, 156.0-156.6, 157.0-158.0, 160.0-161.0, 164.4-165.6, 166.0-166.6, 168.0-168.3, 170.2-180.0, 184.6-186.5, 189.4-189.0

183.5-189.1 Graphitic fragmental zone, slightly mineralized with pyrite.
 189.1-227.4 Black argillitic shale.

Lost core: 190.0-193.1, 193.8-195.0, 198.3-200.0, 200.4-202.6, 203.2-203.6, 204.1-204.9, 205.6-206.6, 206.8-207.7, 208.0-208.5, 208.9-209.5, 210.5-210.9, 211.7-212.3, 212.7-214.0, 214.3-217.4, 218.0-218.3, 219.6-220.0, 220.6-221.2, 221.5-224.1, 224.4-225.0, 225.3-227.4,

227.4-229.3 Graphitic fragmental zone, slight to mineralized with pyrite.

229.3-233.0 Black argillitic shale.

Lost core: 229.6-230.0, 231.3-233.0

233.0-234.4 Black argillitic shale, slight to mineralized with fine to medium fine grained pyrite.

234.4-235.0 Lost core.

235.0-237.0 Black argillitic shale.

Lost core: 235.6-236.5, 237.0-237.6, 238.0-238.6, 239.1-240.0, 240.3-241.5, 242.1-242.3, 243.0-244.0, 245.0-245.1

247.0-247.1 Solid sulphide, fine and medium grained pyrite, slight argillitic, rather colored, very fine grained, somewhat fragmental, with discontinuous stringers of cuboidal and subhedral pyrite. The pyrite at right angles to the core, showing a fine grained columnar, several calcite stringers, some along core from contact with SS bed, some within the sulphide, none visible in the stringers. Contact with SS bed across core.

247.1-248.3 Black argillitic shale. Several narrow graphitic zones with associated narrow calcite stringers and disseminated.

248.3-249.6 Lost core.

249.6-250.0 Black argillitic shale. Several small patches of well mineralized to nearly solid sulphide, pyrite. (MS2).

250.0-250.4 Lost core.

359.5-359.7 Solid sulphide, fine grained pyrite.

359.7-359.5 Black argillitic shale, occasional zones of hard shale, occasional very narrow stringer zones with associated graphitic schist.

Lost core.- 251.4-252.1, 253.0-254.1, 255.0-255.3,
257.0-257.4, 258.5-261.5, 261.8-262.4, 263.0-264.2, 264.7-265.6,
266.0-270.8, 271.6-273.2, 273.8-274.6, 277.3-279.0, 279.5-280.0,
280.6-281.0, 281.4-281.9, 283.0-284.0, 287.0-287.5, 288.0-288.7,
292.8-293.6, 294.2-295.1, 295.6-297.2, 297.7-298.5, 299.0-300.0,
301.9-302.6, 310.6-311.6, 313.1-313.6, 317.4-321.0, 336.8-337.4,
338.2-339.1, 339.4-340.0, 341.2-342.3, 345.0-345.6, 347.1-347.9,
348.8-350.0, 351.5-352.0, 353.2-354.0, 354.5-355.0, 355.7-356.5,
357.5-358.2

367.5-374.0 Black argillitic shale, occasional zones of very narrow quartz-calcite stringers with associated graphitic schist, slight pyrite.

374.0-370.7 Black argillitic shale.

Lost core.- 377.1-378.2

383.7-381.5 Graphitic fragmental zone. Mineralized with fine to medium fine grained pyrite.

381.5-382.5 Black argillitic shale.

Lost core.- 382.5-383.5, 385.0-386.9, 387.3-388.9,
391.5-392.5

392.5-392.9 Quartz vein, graphitic inclusions.

392.9-396.4 Black argillitic shale.

Lost core.- 393.2-394.2, 395.0-396.4,

406.4-408.5 Coarse grained conglomerate, occasional graphitic inclusions or altered shale pebbles. Slight disseminated pyrite throughout.

Lost core.- 400.0-400.9, 403.0-403.8, 406.0-407.4,
407.4-408.5, 409.0-410.0,

413.5-425.6 Black shale, parts graphitic, parts becoming very hard, approaching slate or slaty shale.

Lost core.- 424.1-425.0,

425.6-427.6 Fragmental zone, fine grained siliceous fragments in graphitic schist matrix. Different in appearance to previous fragments.

427.6-428.3 Conglomerate, slight disseminated pyrite throughout.

Lost core.- 421.0-421.9, 423.5-425.0, 425.5-426.0

428.2-424.7 Black finely ground shale.

424.7-425.2 Conglomerate.

425.2-425.6 Black finely ground shale, possibly finely ground conglomerate

425.6-428.3 Conglomerate.

428.3-451.3 Finely ground shale or conglomerate.

451.3-472.8 Conglomerate.

Contact at 472.8 sharp, slightly irregular at high angle to surface. Mineralized with fine grained pyrite along contact plane. Small pyritized pebbles of conglomerate type in shale for 25' past contact.

472.8-475.0 Black fairly hard argillitic shale. Several streaks and spots of solid sulphide pyrite from contact to 473.2 feet.

475.0-520.0 Only 55% of core recovered. Fairly hard black shale, occasional very narrow quartz stringers.

520.0-522.3 Conglomerate, occasional narrow barren quartz stringers. Slight disseminated pyrite throughout.

Lost core.- 520.0-521.0, 522.1-522.6, 524.0-525.0,
526.7-529.5, 530.0-532.5, 532.1-534.1, 537.4-538.7, 540.0-540.5,
551.8-552.7, 555.0-556.4, 557.8-558.3, 559.5-562.6, 563.0-563.2,

562.8-564.2 Graphitic schist, fairly numerous small pebbles and slight conglomerate, (7 cars).

564.2-566.1 Lost core.

566.1-566.7 Graywacke or possibly fine grained conglomerate. Several narrow irregular streaks of SS pyrite.

566.7-575.0 Graphitic shale (contact sharp @ 45) slight fragments.

Lost core.- 568.0-569.1, 573.5-574.2,

575.0-617.0 Black slightly graphitic shale, few narrow quartz stringers, part ground core. Speck of sphalerite @ 581.5', slight disseminated pyrite.

Lost core.- 577.0-577.8, 579.0-580.8, 583.0-584.0,
592.0-593.3, 595.6-596.3, 597.5-598.6, 600.0-601.0, 604.0-604.6,
613.2-614.5, 615.0-617.0

617.0 END OF HOLE.

Hole abandoned at 617 feet. Hole casing bottom, 100 feet, 100 feet of reds, core barrel, shell and bit.

TOM CLAIMS - YUKON.

D.D.H. No. 31-A. Sec. 110/00 N.

0 - 75 Casing.
75 - 160 Black argillitic shale, parts slightly graphitic, numerous open fractures heavily weathered and iron stained. Occasional very narrow quartz-calcite stringers with associated visible pyrite. Slight disseminated pyrite throughout.

160 END OF HOLE.

This hole was abandoned at 160 feet due to the bit taking off into the side of the hole on four separate occasions. Efforts to retain the same hole on two consecutive runs were unsuccessful. Heavy caving developed and cementing operations failed to reduce the caving.

TOM CLAIMS - YUKON

D.D.H. No. 32 Sec. 110/00 N

e-23
22-603

Casing
Black argillitic shale, slight oxidation stain to 25', sparse very narrow quartz-calcite stringers with visible pyrite and occasional narrow zones of graphitic schist. Slight disseminated pyrite throughout plus occasional less than one inch bands of solid sulphide, pyrite.

Lost Core- 25.2-26.8, 27.2-27.7, 28.2-31.5, 32.2-33.0,
34.5-35.6, 36.2-37.1, 37.9-38.2, 39.2-40.0, 40.2-41.0,
42.3-43.8, 44.2-45.0, 45.4-46.6, 46.8-47.6, 48.0-48.7,
51.6-52.7, 53.5-54.1, 55.0-56.1, 56.6-57.2, 57.2-58.1,
59.0-59.7, 60.0-60.8, 62.3-63.2, 63.2-64.5, 65.0-65.7,
66.2-66.9, 67.6-68.5, 69.0-70.0, 71.7-72.2, 74.3-75.0,
80.7-81.8, 81.0-82.2, 85.0-85.8, 86.2-87.0, 88.2-89.0,
89.3-90.0, 90.6-91.1, 92.4-93.0, 94.5-95.0, 96.2-97.0,
98.4-100.0, 100.7-101.3, 102.2-103.6, 104.1-105.5,
106.6-108.9, 111.1-111.8, 112.5-113.0, 114.1-115.0,
115.6-116.4, 116.9-117.6, 118.6-121.6, 122.1-123.4,
124.2-125.6, 126.1-127.5, 128.1-129.5, 129.0-131.8,
132.6-134.2, 135.0-126.7, 137.2-127.8, 140.0-141.1,
143.8-144.4, 145.0-146.0, 147.1-147.8, 148.0-148.7,
149.3-150.0, 150.6-151.1, 151.0-152.2, 153.1-153.2,
154.5-156.3, 156.8-157.6, 158.1-158.9, 159.5-161.3,
161.7-162.3, 163.4-164.1, 164.5-165.2, 166.1-166.8,
167.7-168.2, 169.1-169.6, 170.0-171.0, 171.2-172.0,
173.5-174.2, 175.0-175.7, 177.6-177.9, 181.0-182.0,
183.0-184.0, 184.4-185.0, 187.2-188.2, 188.0-188.8,
194.5-195.0, 195.4-196.0, 196.5-197.1, 197.4-198.1,
198.5-199.3, 201.0-201.4, 202.7-204.2, 205.0-205.8,
206.7-207.5, 208.4-208.9, 210.1-210.6, 213.0-213.8,
215.0-215.6, 216.0-217.1, 218.0-219.4, 221.0-221.1,
222.9-223.6, 224.5-225.0, 225.5-226.2, 227.4-228.1,
229.0-229.7, 240.8-241.5, 250.0-251.0, 255.0-257.0,
258.4-259.1, 265.0-275.0, 275.8-276.5, 277.0-278.0,
278.5-279.0, 279.5-281.4, 281.4-282.1, 283.0-283.6,
286.8-287.5, 288.1-288.7, 289.0-289.8, 289.0-289.8,
291.7-292.4, 292.8-293.4, 294.0-294.6, 295.0-295.7,
299.0-299.5, 302.5-303.9, 308.0-308.4, 311.0-311.7,
316.2-317.0, 318.0-318.6, 318.5-319.3, 319.0-319.2,
318.5-319.3, 320.0-321.2, 321.7-322.0, 322.2-322.9,
325.4-327.3, 327.2-328.3, 328.0-328.1, 328.4-328.5,
329.5-329.5, 329.7-329.9, 329.5-329.7, 329.5-329.7,
371.4-372.3, 374.0-375.7, 376.2-378.0, 378.0-378.0,
382.0-381.6, 382.4-383.1, 384.0-384.0, 384.0-384.0,
390.6-391.1, 392.0-393.6, 393.0-393.0, 393.0-393.0,
400.0-400.6, 402.7-403.2, 410.0-410.0, 412.5-413.0,
415.0-415.6, 416.4-417.3, 418.0-418.0, 418.5-418.7,
421.0-422.0, 422.0-423.0, 424.0-424.0, 424.0-424.0,
529.1-529.0, 547.0-548.0, 550.0-550.0, 550.0-550.0,
552.4-553.0, 553.0-554.2, 555.0-555.0, 556.0-557.4,
558.0-558.9, 559.0-561.0.

63.0 END OF HOLE.

TOM CLAIMS- YUKON

DPH, No. 33 -40°

Sec. 110 / 00 N

- 0-16.0 Casing.
- 16.0-67.3 Slightly leached argillitic shale, parts slightly graphitic. Sparse narrow quartz stringers, slight pyrite.
Lost. 20.0-21.4, 22.5-23.8, 24.5-25.5, 26.1-26.8, 27.2-27.9, 28.4-29.2, 30.0-30.8, 32.0-33.5, 34.1-35.8, 37.8-38.9, 39.0-40.0, 40.8-42.1, 43.1-44.0, 45.0-46.8, 48.3-49.0
- 67.3-69.4 Broken core, argillitic shale, several pieces fine grained conglomerate (? cave). Slight pyrite.
- 69.4-70.0 Lost core.
- 70.0-71.0 Broken core, part cave. Black slightly graphitic shale, several less than 1/8 inch eroded quartz stringers mineralized with fine grained pyrite and sphalerite. Sphalerite occurs as subhedral crystals intergrown with pyrite, yellow to clove brown in color.
- 71.0-71.3 Fine grained conglomerate, slight pyrite.
- 71.3-74.0 Broken core, shale and fine grained conglomerate. Slight pyrite, sparse very narrow, irregular quartz-carbonate stringers.
@ 76.3 feet- slight sphalerite and pyrite in 1/8 inch stringer in broken core. Very similar to 70-71. Probably cave. NES.
- 74.0-90.0 Black slightly graphitic shale, slight disseminated pyrite. Core mostly broken, occasional quartz stringers and fragments of quartz.
- 90.0-92.6 Slightly graphitic shale, several broken quartz stringers.
- 92.6-125.2 Black slightly graphitic shale, becoming argillitic shale from 100 feet. Occasional graphitic zones. Occasional SS pyrite bands.
Lost. 95.0-96.2, 99.6-100.0, 102.0-103.4,
- 125.2-125.5 Quartz stringer breccia. Visible pyrite.
- 125.5-181.7 Black argillitic shale, occasional narrow quartz stringers and narrow bands of SS pyrite, slight disseminated pyrite throughout.
Lost. 126.5-127.1, 128.2-129.3, 136.2-137.3, 138.2-140.0, 142.1-143.2, 143.4-145.7, 145.9-147.1, 147.4-148.6, 149.5-151.6, 152.2-153.9, 154.2-156.5, 156.8-157.3, 158.0-158.6, 160.0-161.0, 161.6-162.6, 165.0-166.8, 167.0-167.8, 169.0-170.0, 171.0-171.6, 172.4-173.3, 174.4-175.6, 176.8-178.1, 179.0-181.0,
- 181.7-184.5 Shale, well mineralized with pyrite as alternating bands of NSS and disseminated. Occasional very narrow quartz stringers.
- 184.5-186.2 Lost core.
- 186.2-186.8 Shale, well mineralized with pyrite as alternating bands of NSS and disseminated.
- 186.8-327.8 Black argillitic shale, parts slightly graphitic, slight disseminated pyrite. Occasional narrow bands of SS pyrite.

Lost. 187.0-188.2, 188.9-190.0, 191.4-192.4, 193.0-193.7, 194.5-195.7, 197.3-198.0, 199.3-200.0, 201.5-202.1, 203.1-204.0, 205.0-206.2, 206.5-207.8, 208.2-210.7, 211.3-212.0, 213.3-213.7, 215.0-215.9, 216.9-217.0, 221.5-222.7, 225.0-226.2, 227.5-228.4, 230.7-231.3, 232.7-233.6, 234.5-236.3, 236.8-237.7, 239.4-240.0, 240.4-242.0, 242.5-243.8, 244.4-245.8, 246.6-248.3, 251.4-252.3, 255.0-255.9, 265.0-265.9, 275.0-275.7, 276.5-277.1, 278.3-280.0, 280.7-281.4, 282.7-283.4, 286.2-288.0, 289.0-291.1, 292.2-292.8, 296.2-296.8, 299.0-300.0, 305.0-305.6, 311.7-312.5, 314.0-315.7, 327.0-327.8,

- 327.8-336.9 Black argillitic slightly graphitic shale, slight to mineralized with fine grained disseminated pyrite. Sparse calcite stringers as fracture fill.
Lost. 330.0-331.1, 332.7-333.3.

- 336.9-337.8 Lost core.

- 337.8-349.0 Black argillitic slightly graphitic shale, slight disseminated pyrite.
Lost. 338.4-339.4, 340.0-340.7, 341.6-342.8, 343.8-345.0, 346.3-349.0.

- 349.0-349.5 Graphitic fragments, broken core.

- 349.5-352.6 Lost core.

- 352.6-365.0 Black argillitic shale.
Lost. 353.1-353.6, 354.6-355.6, 356.0-356.9, 360.0-360.9, 362.5-363.2, 364.3-365.0.

- 365.0-367.5 Black argillitic shale, slight to mineralized with fine grained disseminated pyrite.

- 367.5-380.0 Black argillitic shale.
Lost. 374.3-375.6, 377.7-378.4, 378.8-379.4.

- 380.0-381.1 Fine grained graphitic fragments, mineralized with pyrite, 1/4 inch stringer breccia along contact @ 381.1.

- 381.1-401.2 Black argillitic shale, locally slightly graphitic. Occasional very narrow streaks of SS pyrite.
Lost. 381.8-382.8, 386.2-387.0, 389.6-389.4, 392.5-393.1, 395.5-396.6, 398.1-398.9, 399.5-401.2.

- 401.2-453.7 Black graphitic argillitic shale, slight pyrite. Occasional narrow quartz stringers and narrow bands of SS pyrite.
Lost. 402.0-403.0, 403.4-404.6, 405.0-406.0, 407.5-408.3, 411.4-412.0, 412.8-413.5, 420.0-420.9, 422.6-423.0, 424.0-426.0, 431.9-432.6, 440.0-441.1, 443.1-444.2, 445.0-446.0, 448.7-449.7, 450.5-453.1,

- 453.7-453.9 Graphitic fragments, mineralized with pyrite.

- 453.9-455.0 Lost core.

- 455.0-455.3 Graphitic fragments, mineralized with pyrite.

- 455.3-476.1 Black graphitic argillitic shale, occasional very narrow quartz stringers and narrow bands of SS pyrite.

Lost. 456.3-457.3, 458.5-459.3, 460.9-461.7, 463.0-463.8,
465.0-465.8, 466.6-467.5, 468.7-469.4, 470.0-470.8, 471.5-472.8,
474.0-475.0.

- 475.1-477.5 Black shale, finely ground core, parts possibly sand, fairly numerous quartz grains and occasional fragments of SS pyrite.
- 477.5-478.3 Black argillitic shale.
- 478.0-480.0 Lost core.
- 480.0-481.6 Black shale, finely ground core, parts possibly sand, fairly numerous quartz fragments.
- 481.6-484.3 Argillitic slightly graphitic shale, occasional very narrow SS pyrite streaks.
- 484.3-485.0 Lost core.
- 485.0-488.0 Finely ground shale or sand.
- 488.0-491.6 Argillitic slightly shale, parts finely ground.
- 491.6-495.9 Finely ground shale or sand.
- 495.9-498.2 Argillitic slightly graphitic shale, slight pyrite.
- 498.0-502.6 Finely ground shale or sand.
- 502.6-505.0 Argillitic slightly graphitic shale, slight pyrite.
- 505.0-509.2 Finely ground shale or sand.
- 509.0-515.0 Argillitic slightly graphitic shale, parts finely ground.
- 515.0-518.2 Finely ground shale or sand.
- 518.2-521.0 Argillitic slightly graphitic shale.
- 521.0-525.0 Finely ground shale or sand.
- 525.0-527.2 Argillitic shale, occasional SS pyrite fragments.
- 527.2-529.0 Finely ground shale or sand.
- 529.0-537.6 Argillitic shale, parts finely ground.
- 537.6-540.0 Black shale, mineralized with fine grained disseminated pyrite.
- 540.0-570.7 Argillitic shale, sparse narrow quartz stringers, slight pyrite parts finely ground.
- 570.7-570.9 Graphitic fragments.
- 570.9-576.0 Ground core, shale.
- 576.0-585.0 Argillitic shale, sparse quartz stringers, slight pyrite, parts finely ground.
- 585.0 END OF HOLE.

This hole was abandoned at 585.0 feet, fifteen feet short of the proposed depth of 600 feet. Heavy caving was encountered which resulted in the loss of the core barrel, shell and bit. Several sections of IX casing were torn loose and dropped down the hole which was overgauge probably due to tool vibration. Several fragments of broken casing were lodged in the hole.

TCM CLAIMS - YUKON

Hole No. 34

-40° Sec 110 1/2 CO N

1-20.0 Casing

20.0-21.5 Broken core, slightly leached and oxidized shale.

21.5-23.1 Lost core.

23.1-30.0 Broken slightly graphitic shale.
 Lost. 23.5-24.1, 24.4-26.9, 27.7-28.3, 28.8-29.6,
 30.0-30.9, 31.8-32.7, 35.0-35.6, 36.8-37.8,
 39.2-40.0, 40.4-42.1, 42.9-43.5, 44.3-45.0,
 45.9-47.6, 47.6-49.6.

50.0-57.5 Very badly broken and finely ground core and mud, shale.
 Lost. 50.0-50.6, 51.5-52.4, 52.8-53.3, 54.0-55.0,
 55.5-56.1, 56.5-57.5.

57.5-58.7 Broken core, fragments of quartz stringers in broken shale.

58.7-125.0 Shale, very badly broken and finely ground core and mud.
 Lost. 58.7-60.0, 60.3-60.8, 61.5-62.5, 63.6-64.6,
 65.0-65.5, 66.5-67.2, 76.2-77.2, 73.0-78.8,
 79.2-80.0, 80.5-81.4, 82.0-82.5, 93.2-93.9,
 107.0-107.8, 123.6-125.0.

125.0-155.0 Mud and finely ground core, occasional shale fragments.

155.0-197.0 Casing - Ex casing was pulled at 155 feet and Ax and Ex was
 reamed down from surface to 197 feet.

197.0-205.0 Broken shale.

205.0 END OF HOLE.

Hole was stopped to move to Sec. 76 1/2 CO N.

TCM CLAIMS - YUKON

Hole No. 35 -35°

0 - 7.8 Casing (Reamed to 19')

7.8-61.3 Course grained conglom rate, abundant limonite stain,
 fairly numerous narrow quartz stringers.
 Lost. 41.4-42.1, 44.2-45.0, 47.5-47.1, 49.2-50.0,
 50.9-51.8, 52.6-53.6, 55.0-55.5, 55.2-56.6,
 57.1-57.7, 58.0-58.8

61.3-111.1 Hard black shale, contact obscured in broken core.
 Fairly numerous lgs. than 1/16 inch bands of pyrite
 and limonite @ 45° to core. Occasional very narrow
 stringers of weathered carbonate with visible very
 fine grained pyrite. Core generally broken with abundant
 limonite stain.
 Lost. 85.0-86.0, 89.4-90.0, 93.3-94.3, 95.0-96.0,
 102.0-103.2, 107.1-108.0, 110.3-111.1

111.1-236.7 Hard black shale, slightly banded by narrow carbonate
 quartz stringers and lenses with associated very fine grained
 pyrite, occasional narrow irregular quartz-carbonate
 stringers.
 Lost. 112.9-113.1, 114.3-115.0, 116.5-117.2, 118.2-
 119.3, 120.6-121.3, 122.2-123.5, 124.6-125.3, 126.1-
 126.8, 139.1-140.0, 142.1-142.7, 144.2-145.0, 151.0-
 151.7, 154.4-155.5, 157.0-157.9, 161.6-162.5, 162.4-
 164.0, 167.5-168.4, 171.9-172.5

236.7-244.4 Hard black shale, occasional to fairly numerous quartz
 and quartz-carbonate stringers, slight pyrite.

244.4-250.0 Black graphitic shale, abundant narrow quartz and quartz-
 carbonate stringers @ 45°, mineralized with pyrite, slight
 to mineralized with sphalerite and very fine grained galena.
 Mineralization occurs as bands through the stringers and
 parallel to stringer contacts and in places as disseminated
 crystals of sphalerite and galena.
 Lost. 246.6-247.5

250.0-275.0 Light gray to gray siliceous cherty shale, numerous to
 abundant banded carbonate-quartz stringers mineralized
 with sphalerite and slight to mineralized with fine grained
 galena. Stringers in part irregular and crystallized frequen-
 tly changing angle from 45° to along core over six inch
 length, alteration of shale gradually decreases toward
 normal hard black shale as approaching 275 feet.
 Lost. 250.0-250.7, 265.6-266.7

275.0-283.5 Hard black shale, abundant irregular narrow quartz-carbo-
 nate stringers, generally @ 45°, slight to mineralized
 with pyrite, sphalerite and fine grained galena.

283.5-284.6 Lost core.

284.6-366.9 Hard black slightly graphitic shale, sparse very narrow
 irregular quartz stringers.

35

302.6-303.4, 306.0-307.5, 311.3-312.1, 313.6-314.4,
322.2-322.9, 323.3-324.3

366.9-372.0

Graphitic schist, abundant narrow quartz stringers and stringer breccia, slight pyrite.
LCST 368.5-370.0

372.0-372.7

Black slightly graphitic argillitic shale, occasional narrow fragments and shale breccia zones, local interbedded fine grained greywacke and grey argillite, local visible fine grained galena and sphalerite in stringers, slight pyrite.

Tom 35

Logged by T. Baumgartner July, 1968

225 - 245.5 Gray argillite
Scattered narrow bands sandstone

245.5 - 284 Mineralized Zone - argillaceous limestone
-- quartered core

284 - 300 Graphitic argillite

Core angles at 226°=30°, 237°=30°, 258°-266°=0°, 282°=38°,
299°=45°

TOM CLAIMS - YUKON

P.D.H. No. 36 -35° Sec. 78 / 00 N

- 0-10.0 Casing (Reamed to 19')
- 10.0-32.3 Fairly hard black shale, occasional very fine bands of pyrite and limonite plus visible fine grained disseminated pyrite. Core locally broken with abundant limonite stain.
Lost. 12.3-13.3, 15.0-15.6, 18.9-20.0, 20.7-21.6, 22.8-23.7, 24.3-25.0, 31.4-32.2
- 32.3-32.6 Weathered shale breccia zone, very slight associated quartz. Possible fault or slip zone.
- 32.6-132.6 Fairly hard black shale, occasional fine bands of pyrite and limonite. Banding at 45° to core. Visible sphalerite at 71.5' in 1/8 inch pyrite-limonite band.
Lost. 49.5-50.0, 51.0-51.5, 73.3-74.1, 107.6-108.2, 111.1-111.6, 112.4-113.5, 114.0-115.0, 115.8-116.5, 116.9-117.7, 118.2-120.0, 120.3-121.0, 121.2-122.1, 122.9-124.5, 125.0-125.6, 126.4-126.9, 127.8-129.1, 130.0-131.4, 131.9-132.6
- 132.6-140.0 Black slightly graphitic shale, fairly numerous irregular, less than 1/4 inch stringers.
- 140.0-147.9 Interbedded slightly graphitic shale and greywacke, occasional narrow bands of quartz-carbonate. Slight disseminated fine grained pyrite and limonite specks in greywacke. Possible visible sphalerite in places. Banding at 30°.
- 147.9-166.6 Black slightly graphitic shale, occasional to fairly numerous narrow bands of greywacke, slight fine grained disseminated pyrite.
- 166.6-169.5 Contorted shale-greywacke fault breccia zone, along core.
- 169.5-225.7 Black slightly graphitic shale, occasional narrow bands of greywacke. Slight pyrite.
- 225.7-233.9 Interbedded shale and greywacke, numerous irregular quartz and quartz-carbonate stringers, generally at low angle to core. Numerous slips and fine brecciation in stringers. Greywacke mineralized with pyrite. Stringers mineralized with clove-brown crystalline sphalerite to 230.0 feet, slightly mineralized with sphalerite from 230.0 feet to 239.8 feet.
- 233.9-234.7 Lost core.
- 234.7-239.8 Similar to 225.7-233.9 feet.
- 239.8-260.0 Slightly graphitic shale, abundant narrow quartz and quartz-carbonate stringers slight to mineralized with sphalerite and fine grained galena. Stringers generally @ 60° to core. Core in part broken and weathered.
Lost. 241.4-242.1, 243.6-244.3, 245.6-246.3, 247.5-

248.4, 249.5-249.9, 251.6-252.2

- 260.0-267.1 Graphitic shale, sparse very narrow quartz-carbonate stringers with visible sphalerite and pyrite.
Lost. 260.4-261.2, 261.7-262.1, 266.6-267.1
- 267.1-271.1 Quartz-shale breccia, slight sphalerite, galena and pyrite.
Lost. 268.0-268.6, 269.5-270.0, 270.6-271.1
- 271.1 Schistose graphitic shale, fairly numerous very narrow quartz stringers, stringers generally offset and brecciated by shearing. Possible local visible sphalerite.

Claims Tom Claims Location Yukon Territory
 Hole Number Tom 37 Depth 602' Co-ordinates 76+00N
 Angle -60° Direction East 4+86E
 5568 Elev.
 Date Started June 23, 1967 Finished July 10th, 1967
 Drilled By Midwest Drilling Logged by P. Ogryzlo

0.0 10.0 Casing
 10.0 16.0 Lost core
 16.0 116.5 Conglomerate, sub angular to angular cherty pebbles
 16.0-19.0' fine grained. Scattered white quartz
 stringers through. 112.8-115.0' lost core.
 116.5 415.0 Hard grey argillite,
 150-200' occasional small pyrite stringers.
 259-265' Rusted on shears.
 283.8-285' Black slightly graphitic sandstone.
 300.0-306' Altered section.
 347-349' dark colored sandstone.
 349-349.2' Stringer native copper at 18° to core.
 385-415' Blebs and stringers of pyrite.
 Lost core 117.8-120'
 415.0- 443.4 Graphitic argillite, 415-440' blebs and stringers
 pyrite.
 440.0-443.4' Slight pyrite, galena and sphalerite.
 443.4 588.6- Altered limestone, considerable contortion. Mineraliz-
 ation is very fine grained and generally occurs in bands
 and stringers in the limestone. Section is fairly well
 mineralized with galena and sphalerite and also light
 pyrite.

Tom 37

Logged by T. Baumgartner July 1968

0.0 - 116.0 Conglomerate
 116.0 - 272.5 Gray argillite
 Core rusty and broken
 argillite well-fractured to 200'
 243-259 Contorted & fractured
 272.5 - 425.0 Banded argillite
 Scattered bands sandstone 1"-3" wide
 Sandstone: 284-285, 347-349, 373-380, 383-384.5
 380-425 Pyrite, quartz and/or carbonate stringers
 common
 425 - 525 No core
 525.0 - 529.5 Mineralized Zone - argillaceous limestone
 Fractured and contorted
 529.5 - 542.0 Altered argillaceous limestone
 Carbonate rotted
 542.0 - 580.0 Grades from above into Graphitic argillite
 Well-fractured with abundant quartz & carbonate
 veinlets to 577'
 580.0 - 602.0 Gray argillite
 Abundant concretions, most sandy, some pyrite
 Sections fractured
 Core angles: 116-150=0-28°, 150'=22°, 172'=27°, 193'=29°
 215'=27°, 240'=30°, 260'=36°, 283'=40°, 300'=45°, 344'=
 30°, 370'=30°, 424'=30°, 583'=29°

Log Diamond Drill Hole

Claims Tom Claims Y.T.

Location Yukon Territory

Hole Number 38

Depth 583 feet

Co-ordinated 54°00N

3°50W

Angle -60°

Direction East

Elevation 521

Drilled by Midwest Drilling

Logged by P. Ogryzlo

Date Started June 27th, 1967

Completed July 8th, 1967

0.0 25.0 Casing, shale and broken ledge.

25.0- 35000 Hard graphitic argillite, only slightly graphitic after 225', occasional concretions and stringers of pyrite throughout.

88-92' numerous quartz stringers

145.7-160.0 soft black graphitic argillite with many quartz stringers.

225.2-225.8' pyrite stringer.

212-225' numerous quartz stringers.

350.0 512.0 Hard black argillite.

458.2-478.5' slight galena, sphalerite, pyrite.

478.5-479.5' near solid sphalerite and galena.

479.5-483.6 Well mineralized sphalerite and galena, slight pyrite.

483.6-485.4 slight sphalerite, galena, pyrite and chalcopyrite.

512.0- 562.0 Hard grey argillite, occasional blebs pyrite.

538.0-540.3' graywacke.

562.0 583.0 Conglomerate.

Lost core. 130.0-130.8', 145.0-145.7', IX 430.0-431.0'

434.3-435.6', 481.6-482.2'.

Core angles 47° -40° 127° 57° 192° 45°
268° 40° 317° 60° 388° 53°
438° 65° 523° 65°

Log Diamond Drill Hole.

Claims - Tom Claims

Location - Yukon Territory

Hole number Tom 39

Depth 683'

54°00N

elev.

Angle -88°

Direction West

3°50W

5568.4

Date Started July 8th, 1967 Completed July 21st, 1967

Drilled by Midwest Drilling

Logged by P. Ogryzlo.

0.0 15.0 Casing, shale, broken ledge.

15.0 16.0 lost core.

16.0 192.0 Hard graphitic argillite with occasional pyrite blebs and stringers.

100-115' numerous quartz stringers

155-160 highly graphitic with numerous quartz stringers

113.6-114.1' slight pyrite.

192.0 280.0 Broken highly graphitic argillite with numerous quartz stringers and occasional pyrite stringers.

272.7-273.2' 90% pyrite.

Lost core - 205.0-206.5', 197.8-200.0', 202.4-203.8 244.1-245.1'

280.0 588.0 Hard black argillite, sections slightly graphitic, occasional pyrite stringers and concretions.

307.0-309.5' graphitic with numerous quartz stringers

330.7-333.2' sandstone with fine grained pyrite.

390.0-403.5 graphitic with numerous quartz stringers

565.0-575.0' graphitic sections.

579.5-588.0' slight galena, sphalerite, pyrite.

Lost core 482.9-485.0', 499.0-499.5'

588.0 599.4 Grey argillite, slight galena, sphalerite, pyrite.

Log Hole Tom 39 Contd - 2 -

599.4 617.8 Altered limestone.

599.4-600.6' well mineralized sphalerite, galena.

600.6-603.6' well mineralized to near solid galena
and sphalerite, slight pyrite.

603.6-610.0' well mineralized galena, sphalerite,
slight pyrite.

610.0-612.8' well mineralized to near solid ~~zinc~~
galena and sphalerite, slight pyrite.
very muddy rock

612.8-617.8' slight galena, sphalerite, chalcopryite
near solid pyrite.

617.8-649.6 Hard black argillite, occasional graphite.

617.8-622.0' slight pyrite, galena, sphalerite.

622.0-622.7' mineralized sphalerite.

622.7-625.0' slight pyrite, sphalerite, galena.

625.0-645.0' slight pyrite.

649.6 683.0 Conglomerate.

653.5-656.5' hard grey argillite

668.5-670.6 Hard grey argillite

670.6-672.0 Fine grained conglomerate.

672.0-673.2 Hard grey argillite.

677.6-678.0' Limestone blebs, pyrite.

678.0-679.0 Hard black argillite.

Core angles 47° 40° 84° 45° 117° 32°

178° 38° 234° 35° 317° 46°

373° 52° 440° 60° 503° 62°

551° 58° ~~744°~~ 647° 45°

Log Diamond Drill Hole.

Claims Tom Claims Location Yukon
Hole. Tom 40 Angle -80° Co-Ords. 58+20N Elev 5488
6+10W

Depth 882' Direction East
Date Started July 24th, 1967 Finished August 11th, 1967
Drilled by Midwest Drilling Ltd.
Logged by P. Ogryzlo

0.0- 57.0 Casing, shale, broken ledge.

57.0 697.0 Hard black argillite, slightly graphitic
throughout, rusted shears to 62', blebs,
concretions and small stringers of pyrite
throughout.

275-315' very broken core, graphitic section.

375.6-377.1' graphitic section - 25% pyrite and
quartz.

390-435' Folded section, much quartz and pyrite.

402.9-403.4', 405-405.5' 90% pyrite.

411-419.5' Highly graphitic section with blebs
pyrite.

565-570' graphitic section with small quartz
stringers.

583-590' Graphitic with quartz stringers.

501-502.7' grey argillite with blebs pyrite.

695-697' grey argillite with slight galena, sphalerite
and pyrite.

697.0 796.3 Altered limestone, considerable contortion, very
fine grained galena and sphalerite, very heavy in
weight.

796.3 882.0 Hard black argillite, pyrite stringers throughout,
795.3-815.0 many pyrite stringers up to 1" in width.

Tom 40 Contd.

- 2 -

KH

Lost core 212.8-222.4', 223.2-228.2', 250.0-253.4',
283.0-283.7', 325.0-326.3', 579.8-580.5',
505.0-510.0', 677.3-679.5', 683.0-684.5', 835.0-837.4'
Core angles, 58' -40°, 133' -45°, 259' -45°,
333' -45°, 442' - 60°, 515' -48°, 539' -55°,
601' -70°, 668' -80°, 823' -85°.

Claims Tom Claims Location Yukon
Hole No. Tom 41 Depth 256' 74+00M Elev 5789.9
5+45E

Angle -40° Direction East
Date Started July 14th, 1967 Completed July 27th, 1967
Drilled by Midwest Drilling Logged by P. Ogryzlo

0.0	9.0	Casing, shale broken ledge, reamed to 74' to recover stuck rods.
9.0	159.6	Hard black argillite, rusted on shears, black 120.0-130.0' very soft ~~xxxxx~~ argillite, blebs pyrite. Lost core 13.4-14.2' and 17.8-19.0' 150.0-159.6' slight pyrite, galena, sphalerite.
159.6	177.6	Grey argillite, 159.6-173.0' Slight to mineralized galena, sphalerite and pyrite. 173.0-177.6' well mineralized to solid sulphide galena and sphalerite, slight pyrite.
177.6	256.0	Very broken black argillite, sections graphitic, occasional small quartz stringers, slight pyrite throughout. 177.6-180.0' slight galena and sphalerite. 196.3-197.6' grey argillite, mineralized with galena, sphalerite, pyrite. 197.6-200.0' slight sphalerite, galena, pyrite. Lost core 232.4-233.0', 245.0-245.8', 252.0-256.0' core angles 49° 37° 104° 25° 237° 40°

Tom 41

Logged by T. Baumgartner July 1968

0.0 - 125 Gray argillite
Well fractured
Core rusty & broken

125 - 175 No core
175 - 178 Zone - argillaceous limestone

178 - 256 Graphitic argillite
Numerous fine quartz and carbonate stringers imm. - 1cm.

Core angles at 42'=28°, 46'=31°, 68'=30°, 74'=38°, 93'=18°,
104'=18°, 111'=0°, 111' - 125'= 0° - 15°,
223'=38°, 255'=37°.

Log. Diamond Drill Hole.

Claims Tom Claims Location: Yukon
Hole Tom 42 Angle -40° Direction East.
Depth 414' 72+00W
5+45E Elev 5816.7
Date Started July 31st, 1967 Finished August 12th, 1967
Drilled by Midwest Drilling Logged by P. Ogryzlo.

0.0 12.0 Casing, reamed to 52', broken ledge, shale.

12.0 414.0= Hard black argillite, occasional blebs pyrite.
12-195' core very broken, rusted on shears.
113.5-114.0' quartz.
125-127.8' sandstone
138.0
138.8-139.0' Sandstone
141.7-142.2' sandstone.
156.2-158.3' Conglomerate.
168.2-170.5' Conglomerate.
222.1-231.8' mineralized galena and sphalerite.
234.2-235.0' Mineralized galena and sphalerite.
261.6-300' Well mineralized and occasional near
solid sulphide galena and sphalerite, slight pyrite.
300.0-318.1' Slight to mineralized galena and sphalerite
pyrite.
318.1-335.0' Well mineralized galena and sphalerite, sli
slight pyrite.
335.0-346.8' slight to mineralized galena and sphalerite
slight pyrite.
346.8-358.0, white quartz and conglomerate.
Lost core 21.8-24.4', 33.4-34.6', 38.9-39.6', 71.5-72.1'
381.8-382.7'
Core angles: 99'-55°, 173' -65°, 373' -60°

Tom 42

Logged by A.T. Baumgartner July 1968

0.0 - 200 Gray argillite
100-200 Well fractured, quartz, carbonate veinlets &
concretions common
Sandstone: 125-126.5
126.5-145 Scattered sandy bands 2"-3" wide
156-158 Conglomerate
157.5-170.5 Interbedded sandstone & conglomerate
Conglomerate: 180-180.5, 183.5-184.5

200 - 350 No core

350 - 358 Quartz and conglomerate
Scattered mineralization - pyrite & graphite

358 - 414 Well banded argillite
Interbedded sandstone bands 1"-3" wide
358-371.5 Sections graphitic

Core Analyses

0° to 20', 0° to 20°, mostly 0° to 5°
82'=57.97=55, 103=52, 130=36, 161=59, 174=63, 195=64, 373=55,
385=55, 395=57, 413=70

Log Diamond Drill Hole.

Claims Tom Claims Location Yukon Territory
Hole Number Tom 43 Depth 589' Co-ords 72400N
Angle -60° Direction East 5445E
Started August 12th, 1967 Elev. 5816.7
Completed August 21st, 1967
Drilled by Midwest Drilling Logged by P. Ogryzlo.

0.0-	30.0	Casing, 15-30' hard black argillite.
30.0	203.0	Hard black argillite, very broken core to 100', rusted on shears.
203.0	589.0	Black argillite with grey stringers, blebs and concretion of pyrite to 490'. 325-350' folding occurs. 383.2-390' mineralized galena, sphalerite and pyrite. 390-416.3' well mineralized to near solid galena, sphalerite and pyrite. 416.3-422.0' slight galena, sphalerite, pyrite, numerous quartz stringers. 422.0-435.0' well mineralized galena, sphalerite and pyrite. 435.0-438.2' near solid pyrite, slight galena and sphalerite. 438.2-450.0' MXXMX hornfels, slight pyrite galena and sphalerite. 450.0-455.0' Slight pyrite, galena, sphaler 457.0-459.0' quartz. 459.0-470.5' Well mineralized pyrite. 502.8-502.8' Quartz blebs, sphalerite, galena. 543.0-544.5' Quartz, blebs sphalerite, g

- 2 -

Log Diamond Drill Hole Tom 43 Contd.

Lost core 259.3-260.5', 371.1-377.7'

378.1-380.2'

Core angles:- 120° -22°, 150° -40°, 229° -55°

307° -80°, 361° -40°, 489° -40°, 537° -65°.

The core from this hole was dumped from 15-175'

due to shortage of boxes.

Tom 42 43

Logged by A.T. Baumgartner July 1968

0.0 - 175.0 No core

175.0 - 207 Gray argillite

207 - 313 Well banded argillite
Occasional pyrite stringers
246 - 250 Fractured and contorted, core angle 0°-20°
250-289 argillite not as well banded as rest of section

313 - 353 Fractured and contorted banded argillite
Core angle 0° to 40°, mostly 0° to 10°

353 - 375 Banded argillite with minor foliation fracturing
326 - 385 Odd carbonate stringers

375 - 475 No core

475 - 477 Sandstone

477 - 590 Well banded argillite
Interbedded sandstone layers 1" - 2" wide
Slight to mineralized pyrite in sandstone
483-502 Concretions
491-494 Conglomerate
538' & 539' 2" conglomerate at both footages
545.5-550.5 Sandstone bands up to 6" wide
551-553 Quartz
553-556 Sandstone
556-590 Sandstone bands up to 3" wide

Core Angles

175=40, 208=55, 219=50, 229=58, 244=64, 267=73, 292=68,
308=77, 359=40, 371=33, 480=65, 495=60, 521=61, 532=65,
558=67, 573=67, 583=67

Log Diamond Drill Hole.

Claims Tom Claims Location Yukon
Hole Number Tom 44 Depth 384' Co-ords: 54+00N 4460W

Angle -83°W Direction West Elev 5621.4
Started August 18th, 1967 Completed August 27th, 1967.
Drilled by Midwest Drilling Logged By. P. Ogryzlo

0.0 32.0 Casing, Shale

32.0 384.0'-Hard black argillite, slightly graphitic, occasional
small quartz stringers, and slight pyrite.

304-326' very broken core.

Lost core 106.8-107.6, 118.1-120.0', 310.9-312.9',
317.9-322.7'

core angles 105° 30°, 199° 35°, 240° 45°, 339° -58°
370° -60°.

Hole abandoned at 384', had flattened too much.

Core dumped.

Log Diamond Drill Hole.

Claims- Tom Location Yukon
Hole Number Tom 45 Depth 445' Co-ords. 54+00N Elev. 5621.4

Angle -83° Direction West 4460W
Started August 26th, 1967 Completed September 2nd, 1967
Drilled by Midwest Drilling Logged by P. Ogryzlo.

0.0 32.0 NX Casing Argillite:

0.0 192.0 Drilled with tricone bits, B casing run.

192.0 245.0 Drilled with blasthole bit.

245.0 400.0 Hard black argillite, slight pyrite and slight
graphite, occasional small quartz stringers

280.0-325' very broken core.

lost core 297.6-298.5', 300.0-301.4', 321.1-322.2'

323.5-324.4'

400.0 445.0 Graphitic argillite, numerous quartz stringers.

420.0-445.0' very broken core, Lost core- 420.0-427.0'

432.5-440.0', 443.0-445.0'

Core angles 270° -45°, 372° -60°, 403° -53°.

Note: In both Tom 44 and 45 the rods became copper plated

These was no evidence of copper in the core.

Hole abandoned at 445' due to excessive flattening.

Tom Claims

Yukon

Tom 46 40° East

483

September 2, 1967

September 12, 1967

68 + 00 N

5 + 30 E

P. Ogryzlo

Midwest Drilling

0	22	Casing argillite
22	109	Tri-Cone bit - B1 size used - No core
109	483	Hard black argillite - rusted on shears to 200. Slight pyrite throughout. Pyrite concretions after 200' Sandstone concretions 200-300' Folding between 200' and 400' core is fairly broken up in places and core angle changes throughout. After 300' numerous quartz stringers and blebs pyrite.
200.9	206.6	Sandstone
376.6	377.3	Slight galena & pyrite in quartz
467.2	468.2	Sandstone
435	483	Hard black argillite with bands of grey argillite
Lost core 366.0-370.3, 432.3-434.5, 442.6-445.8		

Core Angles:

114' - 55°
190' - 60°
263' - 15°
301' - 50°
418' - 2°
454' - 90°

Tom Claims I.T.

Hole number Tom 46 Angle -40° Direction East

68+ 00N

Elevation 5790'

5+ 30E

Date started June 25, 1968

Finished July 3, 1968

Drilled by Midwest Drilling. Logged by P. Ogryzlo

0.0 - 483.0 Drilled in 1967

483.0 - 708.0 Hard black argillite

Interbedded with gray argillite after 600'

Slightly graphitic in places

Numerous blebs and stringers of pyrite

occasional sandstone concretions

occasional quartz and carbonate stringers

Conglomerate sections: 550.5 - 555.0, 556.7 -

557.7, 559.2 - 560.3, 680.8 - 692.0.

Very fine grained conglomerate at: 626.6 - 632.5,

650.0 - 663.2, 669.9 - 672.6

Lost core: 608.6 - 612.5, 622.1 - 623.1,

629.0 - 630.4

Core angles: 502' 70°

571' 82°

630' 60°

Tom Claims, Y.T.

Hole Number: Tom 46 Angle -40° Direction East
68+ OON Elevation 5790' Final Depth: 708'
5+ 30E

Date Started: September 2, 1967 Depth at 483' September 12, 1967
June 25, 1968 Date Finished July 3, 1968

Drilled by Midwest Drilling Logged by Ted Baumgartner

0.0 - 22.0 Casing

22.0 - 109.0 Tri-cone bit used - no core

109.0 - 247.0 Gray argillite?
Rock type actually between gray argillite & well-banded argillite as sections of gray argillite are interbedded with narrow fine sandy layers $\frac{1}{4}$ " to 2" wide. Scattered slight and very fine pyrite usually occurring in the sandy layers. Odd sandstone and pyrite concretion. Core rusty and broken to 206'. Fractured sections: 139.5 - 153'. Core angles @ 112° = 52°, 125° = 68°, 139° = 63°, 149° = 46°, 161° = 45°, 175° = 60°, 192° = 73°. Well-fractured section: 200.5 - 206.5' with slight graphite. Scattered minor fracturing to 245'. From 205 - 271' Core angle 0° to 15°, for the most part = 5°. Sections with core angle = 0° and core is gray argillite and sandstone: 223.4-227.5, 229.4-230.6, & 241.8-243.3. Sandstones: 247.5-229.4 - Core must be following single thin layer

247.0 - 259.0 Gray argillite

259.0 - 327.7 Same as 109 - 247. Rock is intermediate between gray argillite & well-banded argillite. Well-fractured sections with numerous carbonate stringers & veinlets: 274-296 many pyrite and sandstone concretions in this section, 303.5 - 305.7 & 319 - 320.5 several pyrite & sandstone concretions. Core angles at 275° = 26°, 280° = 20°. Between 283° - 327.7' core angle 0° to 18°

327.7 - 398.5 Fracture zone, contorted for most of section. Fractures filled with quartz and carbonate which form up to 50% of rock in sections 327.7-347 & 396-398.5. From 337-398.5 fractured rock appears to have been a well-banded argillite (sandstone layers up to 3" wide). Scattered slight graphite & slight to mineralized pyrite. Pyrite for the most part in sandstone layers and concretions. 377.2' Several blebs galena in quartz stringer. 385.8 - 386.4 Conglomerate. Core angle 327.7 - 398.5 varies from 0° to 50°, very difficult to measure because of contortion & fracture. Lost core: 366 - 370.3'

Tom - 46

- 2 -

398.5 - 550.8 Well-banded argillite. Interbedded sandstone layers up to 4" wide. Slight to mineralized pyrite in sandstone. Odd quartz and/or carbonate stringer usually in small fractures. Well-fractured zones, with quartz, carbonate, pyrite and/or graphite filling fractures: 480-487, 490.5-497.5, 503-504.6, 529.5-540.6. Core angles at 401° = 73°, 425° = 72°, 437° = 70°, 454° = 78°, 457° = 64°, 480° = 65°, 498° = 77°, 516° = 85°, 548° = 72°. Lost core: 432.3-434.5, 442.6-445.8

550.8 - 560.4 Conglomerate. Coarse conglomerate: 550.8-553.1. Fine conglomerate: 553.8-555, 556.8-557.7, 559.2-560.4. Sandstone: 553.1-553.8, 556-556.8. Fractured banded argillite: 555-556, 557.7-559.2

560.4 - 680.9 Well-banded argillite. Interbedded sandstone layers up to 3" wide. Slight to mineralized pyrite in sandstone. Odd pyrite and sandstone concretion. Fracture zone: 590-605 with quartz, carbonate, pyrite and graphite filling fractures. Sandstone: 626.5-630.6, lost core: 628.8-630.2. Conglomerate: 630.6-632.3. Sandstone: 634.8-636, 644.5-645.8, 650-663, 669.7-672.5. Contorted from 638 to 680.9'. Core angles at 565° = 76°, 580° = 85°, 589° = 76°, 615° = 70°, 625° = 60°, 634° = 50°, 637° = 45°, 642° = 15°. 642-650 core angle 0° to 10°. 650-680.9 core angle 15° to 40°. Lost core: 608.5-612.5, 620-622

680.9 - 697.0 Conglomerate with numerous quartz stringers. 680.9-684 fine. 684-689.5 coarse. 689.5-697 very fine to coarse conglomerate

697.0 - 708.0 Gray argillite. Fractured and contorted to 705'. Several pyrite and sandstone concretions

Claims- Tom Claims I.T..

Hole Number Tom 47 Angle -60° Direction West

70+00N Elevation 6098

9+80E

Date started June 26th, 1968 Finished July 2nd, 1968

Drilled by Midwest Drilling, Logged by P. Ogryzlo

0.0 -60.0 Casing, talus, broken ledge

30.0 - 316.2 Hard black argillite, much folding through^{out},

very rusty on shears to 240', occasional
sandstone concretions, core very broken.

132.3-134.3 rusty sandstone

150.0-265.0 occasional pyrite

181.5-184.5 very fine grained conglomerate

265.0-310.0 mineralized with pyrite.

316.2 - 328.6 Conglomerate

322.6 - 327.2 lost core.

326.6 - 533.0 Hard black argillite with interbedded grey
argillite, some rusty zones.

333.9-335.8' sandstone

392.8-410.2 mineralized to solid sulphide
galena, sphalerite, pyrite.

410.2-425.8' slight galena, sphalerite and
pyrite.

425.8-427.0' mineralized galena, sphalerite
pyrite.

427.0-439.1 slight pyrite.

439.1-456.6' well mineralized to solid sulphide
galena, sphalerite, pyrite.

459.0-460.0' very rusty section.

Lost core 358.9-358.7', 392.5-393.2', 395.3-396.8'.

Log hole 47 contd. - 2 -

462.4-467.3. ~~462.4-467.3~~ 476.5-477.3'

Core angles 36' 12°

118' 30°

277' 35°

308' 50°

469' 65°

515' 50°

End of hole 533'

Tom 47

Logged by J.B.H. July 1968

51-75 Banded argillite & sandstone, C.L.'s 15° to 14°
75-100 " " " " 15° to 5°
100-125 " " " " 15° & 16°
125-150 " " " " 5° & 20°, Yellow sand-
stone bands from 131-135
150-175 Banded argillite & sandstone C.L.'s 23°
175-200 " " " " 27°, Rusty sandy beds with
pyrite
200-225 Banded Argillite & sandstone, Beds folded small angles
225-250 " " " C.L. = 50°
250-275 " " " C.L. 14° to 27°
275-300 " " " C.L. 40° to 50°, Graphitic &
pyritic from 287'
300-325 Graphitic & pyritic shale with thin sandstone bands to 316'
C.L. 52°
316-325 Conglomerate
350-375 Limonite stained pyritic & graphitic shale with sandy
laminae, occasional galena & sphalerite, cut by many quartz
carbonate stringers
375-400 Similar - contorted & brecciated locally
400-425 Zone- Black argillite with many quartz carbonate stringers
-475' black argillite Cl. = 48°
478-533 Banded argillite & sandstone, C.L. 65° to 55° to 65°

Tom Claims, Y.T..

Co-ordinates 80+10N Elev. 5530-0
5+15E
5+10

Hole Number 48

Angle -45° Direction East. Depth 533'
653

Date started June 22nd, 1968 Finished July 2nd, 1968

Drilled by Midwest Drilling, Logged by P. Ogryzlo

0.0 - 30.0 Talus, broken ledge

25.0 - 523.4 Hard black argillite.

25-100' very rusty on shears and core very broken,
occasional pyrite after 125'

209-305' core very broken, mineralized with pyrite,
some quartz stringers

368.5-370.0' quartz fragments in argillite, also
some conglomerate

370.0-523.4' interbedded grey argillite, numerous
sandstone concretions. Sandstone 374.2-374.7'

380.9-382.8', 384.1-385.0', 385.8-386.2'

mineralized with pyrite, many quartz and carbonate
stringers.

471.9-473.5' well mineralized galena, sphalerite,
pyrite.

485.0-490.0' VERY FINE GRAINED CONGLOMERATE
Lost core 486.0-491.9', 494.1-494.5', 511.2-513.8'

515.0-516.5'.

523.4-562.7 Grey argillite.

527.0-527.6 Limestone

527.6-529.7' black argillite

562.7-593.4' limestone, very fine pyrite, possibly
some galena and sphalerite, core very heavy

- 2 -

Log hole 48 contd.

593.4 - 599.2 Hard black argillite with some grey argillite.
560.0-596.5' conglomerate
599.2 - 653.0 Conglomerate.
603.1-607.6' black argillite
607.6-614.3' limestone, light in weight.
614.3-620.7' black argillite.

End of Hole 653'

core angles 72' 37°

163' 50°

295' 70°

443' 65°

508' 50°

589' 62°

Tom 48

Logged by J.B.H. July 1968

0-25 Argillite, C.L. 35° regular
25-50 " C.L. 40°
50-75 " 35°
75-100 82' Start of Sandstone & argillite, C.L. 40° to 50°, Brecciated 85' to 90'
100-125 45° core angle, regular but much broken, here argillite mainly
125-150 Argillite, core angles regular 40° to 45°
150-175 Argillite to 162', C.L.'s " 47°
162' on: Banded sandy argillite, contorted at 173'
175-200 Banded argillite, core angles regular 45°
200-225 " " " 50°, broken from 215' and more graphitic
225-250 Broken graphitic argillite to 240', broken & contorted 245-250'
250-275 Argillite and sheared graphitic argillite, contorted from 265', angle with axis
275-300 Broken & argillite bedding contorted, bedding makes poor core angle to 295', angle for bits parallel to core at from 315-325
300-325 Argillite, C.L. parallel to core & 303'
325-350 Argillite, core in & out of axis, core faulted & 1's poor
350-375 Argillite to 370', C.L. = 35°, Argillite and sandstone from 370', angles poor
375-400 Argillite & sandstone, contorted core, poor core angle, in & out, faulted
400-425 Sheared & contorted argillite and sandstone, locally graphitic and pyritiferous
425-450 Sheared & contorted argillite and sandstone, locally graphitic and pyritiferous, carbonate veinlets
450-475 Contorted argillite & sandstone to 462'. From 462' graphitic argillite & zone
475-500 Black graphitic argillite, contorted band 485-487, C.L. 45° regular
500-525 Banded graphitic argillite with carbonate veinlets
525-550 Banded argillite, C.L. varies
550-563 Banded argillite, C.L. 35° to 40°
563' Start of limestone
Conglomerate at end of hole (653')

- 85° W

70 + 00 N
9 + 80 E

60 18

Log Diamond Drill Hole Tom 49.

0.0	16.0	Casing.
16.0	38.1	Grey argillite, interbedded sandstone and silty sandstone, core angle 38°, minor folding, breccia 30.0-33.1'
38.1	37.5	Sandstone, occasional quartz stringers at 75° and parallel core.
37.5	53.0	Greyish argillite, interbedded sandstone and silty sand. 38' core angle 32°, 41.5' 60°, 44' 35°, 48' 22°.
53.0	61.0	Sandstone, minor interbedded argillite.
61.0	102.4	Grey argillite, interbedded sandstone and silty sandstone, core angle 63' 22°, 66' 30°, 70' 15°, minor folding and faulting, sandy and silty beds with very fine pyrite, core angle 101' 25°
102.4	103.2	Sandstone, core angle contact 27°
103.2	217.8	Greyish argillite, interbedded sandstone and silty sandstone, at 109' possible fault, core angles, 106' 10°, 110-125' 0-5°, 120-125' 5-15°, 127' 10°, 129' 15°, 141' 15°, 145-147' some contortion, sandstone beds up to 8" at 138.5' and 148.2', 150-175' core angle 5-15°, 177' fault, west side appears to be up to east side, core angle 15°, 192' core angle 22°, from 204' minor faulting.
217.8	218.6	Sandstone, core angle 23°.
218.6	352.2	Greyish argillite, interbedded sandstone and silty sandstone, minor faulting and folding, 223' 18°, 225-250' core angle 20° very minor contortion, 155-159.5' fault zone, 267' core angle 33°, 274' 30°, 285-300' hole follows fold core angles parallel to 5°, 300-325' core angle parallel to 15°, 310-315' faulting, 325-350 hole follows fold as 285-300' core angle parallel to 10°.
352.2	361.8	Fault zone, brecciated, numerous carbonate stringers.
361.8	405.0	Grey argillite, interbedded sandstone and silty sandstone, core angle at 375' parallel to 10°, 375-400' hole follows fold, core angle parallel to 10°.
405.0	411.0	lost core, 2 feet argillite recovered.
411.0	437.1	Grey argillite, interbedded as preceding, hole follows fold, core angle parallel to 15°
437.1	452.9	Core angle 425' 0°, 427' 25°, 432' 10°. Fault zone, various degrees of brecciation from very little to intense at 448', some slight pyrite at 454'
452.9	479.2	Grey argillite, interbedded sandstone and silty sandstone, very slight pyrite in sandstone, core angle to 475' 0 - 5°. hole follows fold, quartz stringers with epidote at 461.3', 466' possible small fault.
479.2	480.9	Sandstone, core angle contact 5°.

- 2 -

480.9	515.6	Grey argillite as previous, core angle to 500' 0-10°. Hole follows fold, minor crenulations and faulting, very slight pyrite in sandstone.
515.6	516.1	Sandstone, core angle 30°.
516.1	544.9	Grey argillite as previous, core angle from 30° at 516.1 to 5° at 510' to 0° at 525', core angle 536' 15° to 10° at 540'.
544.9	552.3	Sandstone, fine grained phase of conglomerate, core angle at 544.9' 20°, glassy quartz and buff carbonate stringers, core angle 552' 10°.
552.3	567.5	Fault zone, sections brecciated, sandstone beds to 4" wide, sections slight pyrite, some buff carbonate.
567.5	600.0	Grey argillite as preceding, core angle 10 to 25° to 575', at 584' cleavage at 30° to bedding, hole follows fold, core angle 0 to 10°, locally 15°.
600.0	604.5	Fault zone, some breccia, several quartz and carbonate stringers, slight pyrite.
604.5	743.8	Grey argillite, interbedded silty sandstone, very slight pyrite, core angle to 625' 15°, greyish silty beds at 621.5', 625.3- 636.3' and 642.5' core angle 625 to 650' fairly constant at 10°, 650 to 675' core angle 10 to 15°, minor faulting, 668.5- 670.5' pyrite concretions, 675 to 700' core angle 10° increases to 25° at 700', from 625' sandstone beds decrease, 700 to 715' core angle 20 to 30°, odd bed pyritic and sandstone, 738' core angle 30°, 731.6' and 754.2' narrow silty beds with pyrite and magnetite crystals.
743.8	745.4	Silty sandstone, core angle 15°, slight pyrite.
745.4	774.5	Greyish argillite, interbedded fine sandstone and silty sandstone, silt beds 50%, considerable contortion, at 761 core angle 25°, glassy quartz stringers 758.2-759.2', 763.2-764.3' and 765.9-767.1'.
774.5	776.6	Conglomerate.
776.6	800.0	Grey argillite, interbedded silty sandstone, silty beds 30% of rock, core angle 777 to 800' 30 to 38°, slight pyrite in silty beds, some contortion.
800.0	829.0	Grey argillite interbedded sandstone and silty sandstone, narrow breccia zone at 814' and 823', Core angles 805' 28°, 817' 40°, and 823' 38°, core angle contact with conglomerate 20°.
829.0	856.8	Conglomerate, 841.5 - 844.4' contorted and brecciated sandstone, 848 - 848.8' argillaceous, occasional glassy quartz stringers, becomes more silty and mineralized pyrite to 856.1'.
856.8	859.1	Silty sandstone, interbedded with argillite, gradational from conglomerate, core angle 42°
859.1	897.0	Grey argillite, interbedded silty sandstone, minor contortion, core angle 35' 860 - 875', contortion increases to 897'

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897.0	900.2	Breccia zone, numerous carbonate stringers, very slight pyrite.
900.2	924.0	Black graphitic argillite, sections brecciated with numerous quartz and carbonate stringers, very slight pyrite, 914.0-924.0 visible Balena, core angle 902° 30', 911° 20'.
914.0	925.7	Sandstone, near solid sulphide, pyrite cubes.
925.7	929.5	Black graphitic argillite, very slight pyrite, core angle 55°.
929.5	973.0	Grey ~~xxxxxx~~ argillite, interbedded silty sandstone, core angle to 950' 40 to 50°, variable from 0°, 950 to 975' core angle 40°, some variation
973.0	975.5	Lost core.
975.5	976.3	Grey argillite.
976.3	979.1	Black sand, may be cava.
979.1	1025.0	Grey argillite, occasional beds silty sandstone, odd beds sandstone, glassy quartz 985.9-987.2' 991.6-992.3', Lost core 992.5-994.5', at 982' core angle 30°, 100' - 1025' odd pyrite concretion, core angle 30 & 35°.
1025.0	1136.0	Grey argillite, interbedded silty sandstone, core angle 55 & 60°, at 1028 fold axis $\cup$ core angle variable, 1050 to end core angle 60°.

END OF HOLE 1136'

Tom Claims Y.T. Co-ordinates 80 +10N Elevation 5530'
5 +15E

Hole Number 50

Angle -70° Direction: East Depth: 907'

Date Started: July 3, 1968 Finished: July 15, 1968

Drilled by Midwest Drilling Logged by P. Ogryzlo

0.0 - 36.0 Casing: Talus, Broken Ledge

16.0 - 700.0 Hard black argillite

- very rusty on shears to 100'

- occasional scattered pyrite

- core very broken in places

core angles: 52° - 10°

137° - 28°

297° - 42°

394° - 52°

425 - 475 slightly graphitic, core very broken

core angle 534° - 60°

568 - 572 sandstone concretions

core angle 648° - 65°

668 - 700 interbedded with gray argillite

many small quartz stringers

some pyrite

Lost core: 452.5 - 455, 448 - 449.7, 550.9 - 551.9,

675.3 - 677, 678.5 - 683.7

700.0 - 719.4 Conglomerate

714 - 715 Lost core

719.4 - 738 Black argillite with quartz fragments

- scattered small sections conglomerate

- interbedded gray argillite core angle 729° - 40°

738.0 - 907 Conglomerate

Lost core: 742.1 - 750, 761.1 - 764.2, 766.1 - 769.5,

778.7 - 781.7, 803.3 - 806.7, 816 - 818.5

850 - 907 Conglomerate grades to sandstone, much of
the lost core here is due to cave

Lost core: 851.9 - 853.2, 856.4 - 858.5, 864.1 - 865,

866.6 - 871.1, 874 - 876, 877.5 - 882.9, 885 - 886.1,

888.1 - 893.2, 897.4 - 898.2

End of Hole 907'

Tom 50

Logged by J.B.H. July, 1968

50-75	Argillite, C.L.=14°
75-100	" " "
100-125	" Core angle 20 to 25°
125-150	" " "
150	faulting in argillite
200-250	Banded pyritic argillite, regular angles faulted
275-300	" " "
300-325	Core angle 45°, faulted argillite, regular angles
375-400	Sandstone at 330' C.L.=00°, regular
425-450	Argillite, folded @ 302'
450-475	Faulted argillite
At 532'	Argillite more banded with sandy layers, intensive brecciated
575-600	570' argillite
600-625	Predominately argillite sheared and folded
625-650	Sheared and faulted argillite
658'	Sandstone and argillite
685'	Sandstone & argillite to
700'	Argillite and graphitic sections to
	Conglomerate & argillite to end of hole 907'

Tom Claims, Y.T. Co-ordinates 76+ 00N Elevation 5658'
3+ 65E

Hole Number 51

Angle -73° Direction East Depth 54'

Date Started: July 11, 1968 Finished: July 12, 1968

Drilled by Midwest Drilling Logged by P. Ogryzlo

0.0 - 12.0 Casing: Talus

12.0 - 25.0 Very fine grained conglomerate

25.0 - 54.0 Conglomerate

42.0 - 42.8 cave? core very broken

Hole abandoned at 54' - tried to ream casing and ran off hole

Tom Claims, Y.T.

Hole Number: Tom 52 Angle -73° Direction: East

76+ 00N Elevation 5658' Depth: 1000'
3+ 65E

Date Started: July 13, 1968

Date Finished: August 24/68

Drilled by Midwest

Logged by A.T. Baumgartner

0.0 - 13.0 Casing: 10"Nx, 13"Ex
Start of core at 10'

10.0 - 482.3 Conglomerate
Core well rusted and broken to 220'
10.0-30.0 Several interbedded sandstone layers less
than 1' wide
Odd quartz stringer
139.7 - 151.0 Fractured gray argillite, numerous
quartz stringers and veinlets, slight graphite
151.0 - 222.0 Siliceous & numerous quartz stringers
361 - 380 No core. Blast bit used

482.3 - 603.1 Gray argillite
Interbedded with conglomerate
Scattered narrow bands sandstone less than 1 1/2" wide
Conglomerate: 515.3 - 518.6, 555.3 - 563.0, 578.8 -
585.2,
Conglomerate & sandstone: 586.9 - 603.1
Sections with minor fracturing and numerous quartz
stringers and/or veinlets, scattered slight graphite:
489.1-499.2, 518.6-520.8, 535.8-554.2, 563.0-568.9

Core angles at 483'=4°, 488'=7°, 499'=10°, 504'=16°,
510'=15°, 522'=15°, 530'=15°, 536'=15°, 546'=20°, 555'=21°,
579'=25°, 591'=4 24°

603.1 - 1102.6 Well banded argillite
Interbedded with sandstone layers-2 1/2" to 3" wide
Scattered slight to mineralized pyrite in sandy layers
Very minor fractures for most part, filled with
graphite, quartz, and carbonate veinlets
Conglomerate: 612.5 - 617.5, 657.0 - 669.5
Sandstone: 619.2 - 621.3, 705.0 - 705.8, 708.5-709.3
Lost core: 653.0 - 657.0
750.8-797.0 Well fractured section, slight to
mineralized graphite
794.8-796.0 Solid pyrite, few specks chalcopyrite
Sandstone: 853.5 - 854.5, 873.9 - 874.9
Lost core: 967.3-972.0, 1023.0-1024.2

Tom 52

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1037.0-1152.8 Well fractured for most of section.
Scattered very slight to mineralized graphite
usually in the fractures. Odd pyrite & sandstone
concretion
Lost core: 1039.5-1042.3, 1059.0-1065.0, 1070.6-
1071.6,
1080.0 - 1152.8 Sections are banded argillite instead
of well banded argillite
1140.0 - 1152.8 Contorted and brecciated
Core angles: 607°=27°, 619°=36, 627°=35, 634°=32, 642°=30,
650°=40, 676°=40, 683°=46, 700°=37, 710°=33, 725°=38, 742°=28,
750°=30, 768°=36, 794°=39, 800°=44, 825°=45, 840°=45, 850°=43,
869°=45, 880°=44, 898°=50, 910°=48, 920°=49, 925°=56, 941°=43,
949°=50, 965°=37, 978°=27, 999°=34, 1013°=52, 1025°=53, 1035°=48,
1069°=70, 1081 to 1105 = 0° to 20°, 1120°=26, 1125°=14,
1129°=14, 1132°=27, 1139°=25, 1139 to 1146 = 0°, 1146°=47°.

1152.8 - 1236.0 Well fractured graphitic argillite
Scattered slight pyrite
Sections with quartz stringers and/or carbonate
stringers and veinlets
Lost core: 1165.8-1170.0, 1192.2-1193.5, 1195.0-
1203.0, 1205.0-1209.1, 1214.4-1216.8, 1222.0-1236.0
Core angles: 1176°=42°, 1187°=74°, 1218°=56°

Tom Claims, Y.T.

Hole Number: Tom 53 Angle -68° Direction East

78+ 00N Elevation 5532' Depth: 362'
3+ 10E

Date Started: July 20, 1968 Date Finished: July 24, 1968

Drilled by Midwest Drilling Logged by Ted Baumgartner

0.0 - 8.0 Casings: 8"Nx, 44"Bx

8.0 - 91.0 Banded argillite
Interbedded gray argillite, sandstone layers up to 5"
Core rusty & broken
Several pyrite concretions
Lost core: 11.2 - 15.0, 17.5 - 20.0
Conglomerate: 40.2 - 41.2
Sandstone: 51.5-54.6, 60-61.5, 70.9-72.1
76.0 - 91.0 Scattered bands conglomerate & 1"-3" wide
Core angles at 30°=23°, 33°=20°, 47°=45°, 50°=45°, 60°=45°,
75°=52°, 89°=62°

91.0 - 362.0 Conglomerate
Interbedded with narrow sections gray argillite and
several of graphitic argillite
Argillite constitutes less than 10% of rock in entire
section and average length of band is 1 foot
Sections of the gray argillite have sandstone layers
Sections of core rusty & broken to 285'
Scattered slight pyrite
Odd quartz stringer to 170'
170 - 264 Quartz stringers common
Sandstone: 179.9-184.2, 191.5-195
206 - 213 Contorted & fractured gray argillite, core
angle appears to be between 0° and 10°
244.3 - 253.1 Sandstone with several narrow bands of
conglomerate
264 - 299.5 Conglomerate is very siliceous
301 - 304.5 15% pyrite in concretions
322 - 327 Lost core
Core angles at 96°=60°, 107°=50°, 162-167°=0° to 50°,
216°=25°, 222°=25°

Tom Clains, Y.T.

Hole Number: Tom-54 Angle -60° Direction East

74 +00N Elevation 5667' Depth: 955'
3 +30E

Date Started: July 24, 1968 Date Finished: August 5, 1968

Drilled by Midwest Drilling Logged by A.T. Baumgartner

- 0.0 - 17.0 Casings: 4"Nx, 17"Bx, start of core at 13'
- 13.0 - 196.2 Conglomerate
Interbedded narrow sections gray argillite and/or sandstone
Odd sandstone and pyrite concretion
Gray argillite: 28.5-32.5, 69.9-73.0, 75.8-77.9, 79.1-83.5, 86.0-89.2, 104.9-116.1,
Sandstone: 117.1-124.9,
Core rusty & weathered: 130-152
Core angles at 30°=20°, 71°=50°, 81°=26°, 87°=45°, 106°=30°, 112°=55°, 121°=40°.
- 196.2 - 300.7 Well banded argillite
Interbedded with sandstone layers up to 5" wide & several sections conglomerate
Slight pyrite in sandstone layers and concretions
Sections fractured with graphite and carbonate veinlets: 196.2-200, 202.9-205.2, 215-217.5, 220.3-221.6, 237.6-255.9, 293.8-300.7
Siliceous conglomerate: 217.5-220.3
Conglomerate: 221.6-237.6
Core angles at 199°=34°, 210°=34°, 216°=35°, 240°=32°, 251°=38°, 258°=45°, 271°=41°, 281°=49°, 288°=55°
- 300.7 - 404.0 Conglomerate
Lost core: 317.2 - 320.8
- 404.0 - 481.0 Graphitic well banded argillite
Interbedded sandstone layers imm. to 3" wide
Slight to mineralized pyrite in sandy layers
Sections with minor fracturing
424-452.2 Well fractured zone with slight to mineralized graphite and scattered carbonate veinlets
Lost core: 425.2-434
Core angles at 405°=50°, 422°=61°, 441°=53°, 453°=42°, 466°=50°, 478°=53°
- 481.0 - 690.0 Well banded argillite
Interbedded sandstone layers imm. to 5" wide
Odd sandstone or pyrite concretion
Slight pyrite in sandy layers

Tom-54

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Sections graphitic with minor fracturing: 541.2-544.5, 554.5-562.5, 608.8-612.8, 668.5-672.1, 681.1-688.0

Core angles at 486°=55°, 500°=55°, 523°=60°, 533°=68°, 543°=52°, 558°=52°, 563°=18°, 572°=20°, 578°=21°, 592°=24°, 600°=27°, 608°=28°, 610°=60°, 615°=30°, 620°=27°, 625°=27°, 640°=20°, 650°=20°, 662°=40°, 669°=36°, 671°=63°, 675°=29°, 680°=31°

- 690.0 - 853.8 Graphitic argillite
Several narrow sections well banded argillite
Well fractured sections with slight to mineralized graphite, numerous quartz & carbonate veinlets
Scattered slight to mineralized pyrite
795.5-799.5 well fractured section consists of 75% sandstone, quartz and carbonate veinlets, and 25% argillite
Core angles at 706°=42°, 723°=52°, 750°=40°, 767°=55°, 778°=60°, 787°=45°, 800°=50°, 835°=69°
- 853.8 - 861.2 Mineralized zone
Bands of graphitic argillite & very slight carbonate
Mineralized to near solid galena and sphalerite, very slight pyrite
Several quartz stringers
- 861.2 - 955.0 Graphitic argillite
Several sections graphitic banded argillite
Minor fracturing throughout
Several sections well fractured with quartz and/or carbonate stringers common
Sandstone: 870.1-871.5
886.8 - 888.0 Well mineralized galena and sphalerite and pyrite
Core angles at 870°=40°, 879°=54°, 896°=67°, 915°=75°

END

Tom Claims, I.T.

Hole Number: Tom-55 Angle -45° Direction East

78+ 00N Elevation 5532' Depth: 792'
3+ 10E

Date Started: July 25th, 1968 Date Finished: August 4, 1968

Drilled by Midwest Drilling Logged by A.T. Baumgartner

- 0.0 - 20.0 Casing (reamed to 30')
- 20.0 - 62.5 Banded gray argillite
Interbedded with bands of sandstone & conglomerate
Core rusty and broken
Sandstone: 22.9-24.0, 30-34, 38.1-40.5
Core angles at 26°-34°, 39°-50°, 48°-46°, 62°-48°
- 62.5 - 225.2 Conglomerate
Core rusty and broken to 245'
Quartz stringers common: 62.5-78, 92.5-104, 156.4-209'
Interbedded narrow bands gray argillite and graphitic argillite
88-92.5 graphitic argillite
110-113 Fractured and contorted section, rock is 80% sandstone and 20% graphitic argillite
130-156.2 Fractured and contorted section, rock is 65% sandstone, 25% conglomerate, 10% graphitic argillite
177-179.6 50% conglomerate, 50% graphitic argillite
- 225.2 - 251.1 Fracture zone
Banded argillite with numerous pyrite & sandstone concretions
Entire section graphitic
Odd carbonate stringer
Core angles at 239°-45°, 248°-40°
- 251.1 - 714.2 Well banded argillite
Interbedded with fine sandstone layers 1mm. to 2 in. wide
Slight to mineralized pyrite in sandstone layers
Odd pyrite or sandstone concretion
268.5-270.2 Fractured & graphitic
275.5-291.6 Fractured & graphitic, numerous carbonate veinlets
334.9-343.4 Fractured & graphitic, slight carbonate
402.8-442.5 Well fractured zone, much graphite & carbonate veinlets, very slight pyrite, contorted in sections

Tom-55

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Sections with minor fracturing with graphite and carbonate veinlets, very slight pyrite: 442.5-458.4, 460.9-463.6, 478.4-481.9, 492.6-500.6, 528.5-589.8, 629-635.9.
607.1-626.8 Well fractured section, graphitic, quartz stringers, pyrite stringers & concretions
630.8-633 Speck. chalcocopyrite
673-676 Sandstone with mineralized pyrite
676-714.2 Fractured & contorted & graphitic Sandstone with mineralized pyrite: 690-692.5, 698.4-696.5, 698.3-698.8
Core angles at 257°-50°, 272°-55°, 281°-58°, 292°-70°, 301°-72°, 317°-74°, 325°-76°, 345°-76°, 355°-75°, 370°-75°, 380°-73°, 394°-60°, 400°-64°, 417°-51°, 426°-43°, 444°-47°, 449°-44°, 464°-52°, 472°-60°, 484°-64°, 492°-57°, 512°-67°, 534°-69°, 554°-56°, 561°-67°, 574°-62°, 593°-80°, 605°-81°, 620°-54°, 638°-59°, 648°-69°, 656°-70°, 667°-72°, 704°-53°.

- 714.2 - 721.2 Mineralized Zone
Limestone? or graphitic limy argillite?
714.2-715.0 mineralized pyrite, very slight galena and sphalerite
715.0-720.0 mineralized to solid galena, sphalerite, and pyrite
720.0-721.2 mineralized pyrite, very slight galena and sphalerite
- 721.2 - 792 Graphitic argillite
Well fractured & contorted
Scattered bands sandstone & gray argillite
725.2-728.3 slight to mineralized galena & sphalerite, mineralized to well mineralized pyrite
728.3-737.5 scattered specks galena, sphalerite, and slight pyrite
Core angle at 784°-56°

END

Tom Claims, Y.T.

Hole Number: Tom 56 Angle -55° Direction North 72° East

69+ 15N Elevation 5767' Depth: 565'
4+ 70E

Date Started: August 7, 1968 Date Finished: August 14, 1968

Drilled by Midwest Logged by Ted Baumgartner

0.0 - 42.0 Casings 11"Nx. 42"Bx
Start of core at 9'

9.0 - 95.0 Gray argillite
Scattered very fine layers of sandstone
Core rusty & broken
Lost core: 21.5-25.0, 28.8-32.2
Scattered very slight pyrite
Core angles at 27°=28°, 32°=34°, 55°=59°, 73°=35°, 87°=36°

95.0 - 160.0 Well banded argillite
Interbedded with fine sandstone layers less than 1/2"
Scattered slight pyrite in sandy layers
Odd carbonate stringer
Core rusty & broken
Scattered minor fracturing
Core angles at 105°=35°, 122°=40°, 136°=39°, 150°=35°

160.0 - 350.6 Gray argillite
Widely scattered narrow sections of banded argillite
Widely scattered slight pyrite and very slight graphite
Odd carbonate or quartz veinlet filling fracture
Sections of core rusty & broken to 300'
Core angles at 171°=45°, 186°=35°, 207°=42°, 232°=51°, 250°=39°, 297°=42°, 330°=36°

350.6 - 488.1 Graphitic gray argillite
Well fractured for most of section
Very slight to mineralized graphite
Scattered slight to mineralized pyrite usually in scattered sandstone bands up to 3" wide
Quartz and/or carbonate stringers common for most of section
Quartz veins at: 441.5-442.4, 453.1-454.6, 468.7-469.8
388.4' Few specks of galena, sphalerite & pyrite in a quartz stringer 2" wide
Conglomerate: 448.9-450.6, 456.3-457.0, 469.8-470.4
Lost core: 380-383
Core angles difficult to obtain as most of section is contorted. 368°=0°, 481°=75°

Tom-56

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488.1 - 512.2 Sandstone
Quartz stringers common
Several narrow bands graphitic argillite
Widely scattered slight to mineralized pyrite

512.2 - 537.5 Banded argillite
Scattered sandstone layers less than 2" wide
Interbedded with gray argillite
Scattered slight pyrite and graphite
Odd pyrite & sandstone concretion
Several narrow sections fractured with quartz and/or carbonate stringers and veinlets
Core angles at 527°=59°, 532°=66°

537.5 - 565.0 Gray argillite
Several narrow bands sandstone mineralized with pyrite
Several very narrow sections with minor sections - fractures and very slight graphite, quartz & carbonate
Core angles at 554°=58°, 563°=42°

END

Tom Claims, Y.T.

Hole Number: Tom 57 Angle -45° Direction North65°West

68+ 00N Elevation 6453' Depth: 514'
21+ 50E

Date Started: August 9, 1968 Date Finished: August 16, 1968

Drilled by Midwest Logged by A.T. Baumgartner

0.0 - 55.0 Casing: 26"Nx, 55'Bx
Start of core at 35'

35.0 - 220.9 Interbedded gray argillite and sandstone
Approximately 50% sandstone & 50% argillite
Core very broken & rusty to 157'
Scattered minor fracturing
Widely scattered very slight graphite and pyrite
Scattered quartz stringers and # veinlets
152.5 - 157.0 Well fractured section, 35% quartz
fragments and stringers
Core angles at 39°=54°, 40°=40°, 46°=43°, 63°=80°,
80°=80°, 94°=63°, 96°=64°, 101°=60°, 105°=60°, 114°=42°,
119°=40°, 132°=38°, 142°=47°, 151°=55°, 167°=51°, 174°=
51°, 181°=55°, 191°=49°, 206°=45°, 217°=36°.

220.9 - 360.5 Gray argillite with scattered sandstone layers less
than 2" wide
Narrow sections might be called banded argillite
Fracturing throughout most of section
Scattered rusty bands (pyrite in sandstone) & cracks
Very slight graphite and pyrite
Cream to light green colored Quartz Mica porphyry
dikes: 284.0 - 287.9, 290.0 - 291.5, 346.5 - 354.0
- the first dike mentioned here seems to cut argillite
at approximately 30°
Conglomerate: 288.8 - 290.0, 292.2 - 293.8
Core angles at 224°=47°, 237°=45°, 242°=61°, 256°=29°,
262°=40°, 268°=33°, 268° to 272° = 0° to 10°, 274°=30°,
326°=35°, from 326° to 346.5 core angle varies 0° to 45°
but appears to be 25° for most of this section,
356°=47°, 357°=53°, 360°=43°

360.5 - 423.2 Conglomerate
Interbedded with scattered narrow bands gray argillite
Fractured
Few specks and stringers pyrite
Cream to light green colored Quartz Mica porphyry
dikes: 376.5 - 379.8, 387.5 - 390.5, 393.1 - 417.0
At 414' lineations in dike =25°

Tom 57

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423.2 - 514.0 Gray argillite
Most of section fractured
Scattered narrow sandy layers and narrow bands of
conglomerate
Scattered very slight graphite and pyrite
Conglomerate: 465.4 - 466.5, 471.8 - 474.7
Lost core: 501.8 503.9
Core angles at 427°=45°, 431°=15°, 438°=20°, 446°=5°,
450°=28°, 457°=30°, 460°=36°, 463°=55°, 468°=24°, 476°=38°,
478°=34°, 483°=16°, 487°=50°, 489°=45°, 491°=35°, 493°=35°,
497°=29°, 498°=16°, 500°=21°, 504°=15°, 506°=15°, 508°=5°,
510°=0°, 512°=6°, 514°=0°

END

Tom Claims, I.T.

Hole Number: Tom 58 Angle -60° Direction: East

74+ 25N Elevation 5755' Depth: 687'
4+70E

Date Started: August 17, 1968 Date Finished: August 22, 1968

Drilled by Midwest Logged by A.T. Baumgartner

0.0 - 15.0 Casings: 8"Nx, 15"Bx
Start of core at 14'

14.0 - 37.7 Conglomerate
Core rusty and broken

37.7 - 56.7 Sandstone
Scattered narrow bands of argillite
Core rusty & broken
Core angles at 39°=24°, 50°=21°, 56°=25°

56.7 - 99.1 Well banded argillite
Interbedded sandstone layers 1/2" to 6" wide
Scattered minor fractures
Several very narrow bands of conglomerate
Core rusty & broken
Lost core: 81.5 - 82.8, 87.0 - 93.0
Core angles at 69°=27°, 80°=17°, 86°=28°, 96°=22°

99.1 - 175.0 Conglomerate
Sections fractured
Core rusty & broken
Lost core: 160.0 - 171.5

175.0 - 193.8 Interbedded conglomerate and argillite
Well fractured
Core rusty & broken

193.8 - 311.0 Well banded argillite
Interbedded with fine sandstone layers less than 1/2" wide
Rock grades to a banded argillite at 265' - fine sandstones layers are less numerous and more widely spaced
Core rusty & broken to 230'
Widely scattered narrow sections with minor fracturing, sometimes with very slight graphite
Odd pyrite and sandstone concretion
Widely scattered very slight pyrite
293.0 - 302.0 Well fractured section
Core angles at 200°=35°, 205°=43°, 211°=34°, 216°=47°, 225°=30°, 230°=33°, 240°=28°, 248°=37°, 257°=40°, 264°=37°, 274°=39°, 280°=44°, 287°=27°, 292°=27°, 305°=21°

Tom 58

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311.0 - 456.5 Gray argillite
Widely scattered fine sandstone layers
Scattered slight pyrite
Odd pyrite and sandstone concretion
Scattered narrow sections with minor fracturing and very slight graphite
Odd carbonate stringer
386.7 - 395.0 Well fractured section with slight pyrite and graphite
395.0 - 396.2 Sandstone
Core angles at 318°=15°, 325°=13°, 340°=17°, 350°=16°, 360°=23°, 370°=10°, 375°=10°, 385°=15°, 400°=15°, 408°=15°, 420°=15°, 437°=12°, 446°=8°

456.5 - 522.0 Well fractured graphitic argillite
Slight to mineralized pyrite, usually in sandstone layers & concretions
Quartz and carbonate stringers & veinlets common
492.3 - 493.2 Specks of galena in quartz
Core angles at 460°=28°, 468°=26°, 527°=20°, 535°=26°

522.0 - 561.8 Well fractured graphitic argillite interbedded with contorted bands of limestone
522.0-537.2 Scattered very slight to slight galena & sphalerite. Scattered mineralized pyrite
537.2-542.8 Slight galena & sphalerite. Mineralized pyrite
542.8-547.4 Slight pyrite
547.4-553.0 Slight to mineralized galena, sphalerite, and pyrite
553.0 - 561.8 Scattered very slight galena, sphalerite, and pyrite

561.8 - 634.9 Banded, contorted and fractured baritic limestone
Widely scattered siliceous or cherty bands
561.8-566.8 Mineralized galena, sphalerite, & pyrite
566.8-571.7 Slight galena, sphalerite & pyrite
571.7-575.0 Very slight galena, sphalerite & pyrite
575.0-579.7 Slight galena, sphalerite & pyrite
579.7-582.4 Well mineralized galena, sphalerite and pyrite
582.4-585.9 Specks galena, sphalerite and pyrite
585.9-618.7 Well mineralized to solid galena and sphalerite. Slight pyrite
618.7-620.5 Specks galena and sphalerite
620.5-627.6 Mineralized galena, sphalerite & pyrite
627.6-632.6 Well mineralized to solid galena, pyrite, and sphalerite
632.6-634.9 Slight to mineralized galena, sphalerite and pyrite
Core angle, when obtainable, varies 0° to 80°

Tom 58

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634.9 - 687.0 Well fractured graphitic argillite
Carbonate and quartz stringers common
Lost core: 636.2-642.1
654.1 - 664.8 Scattered slight galema, sphalerite,
and pyrite in limestone bands
Core angle at 648' = 48

END

Tom Claims, Y.T.

Hole Number: Tom 59 Angle -45° Direction: East

68+ 00N Elevation 6374' Depth: 302'
16+ 90E

Date Started: August 18, 1968 Date Finished: August 22, 1968

Drilled by Midwest Logged by A.T. Baumgartner

0.0 - 27.0 Casing: 4"Nx, 27'Bx
Start of core at 15'

15.0 - 107.4 Conglomerate
Core rusty & broken
Sections fractured
Sections siliceous
Quartz stringers and veinlets common
Interbedded with sandstone: 59.5-75.0, 79.5-92.9
Core angles at 63' = 21°, 65' = 0°, 75' = 0°

107.4 - 140.7 Sandstone
Core rusty and broken
Scattered minor fractures and quartz stringers
Core angles at 124' = 13°, 125' to 140' = 0° to 5°

140.7 - 302.0 Conglomerate
Core rusty & broken
Numerous quartz stringers
Sections fractured
282.5-286.0 80% quartz
Lost core: 160.0-162.7, 195.0-197.2, 200.0-202.6,
207.3-208.8, 251.5-259.1, 278.9-280.5

END

Tom Claims, Y.T.

Hole Number: Tom 60 Angle -48° Direction: East

110+ OOM Elevation 4698' Depth: 537'
12+ OOW

Date Started: August 24, 1968 Date Finished: August 28, 1968

Drilled by Midwest Drilling Logged by A.T. Baumgartner

0.0 - 60.0 Casings: 28"Nx, 60"Bx, Start of core @ 60'

60.0 - 537.0 Graphitic argillite
Well fractured to 188.5'
Many quartz stringers and veinlets to 174'
Scattered slight to mineralized pyrite
Contorted locally
178.3-188.5 Interbedded bands of conglomerate, 50% of section
188.5-537.0 Scattered fractured sections with quartz stringers & veinlets
268.5-269.8 Several bands conglomerate
Lost Core: 103.5-109.5, 118-123, 130-140, 228-236, 287-290, 302-307, 312-317, 332-339, 410-414, 419.5-424, 430-435, 448-456, 511-516, 526-531
Core angles: 62°-62°, 125°-155° less than 25°, 156°-25°, 218°-25°, 227°-46°, 246°-40°, 249°-47°, 257°-35°, 283°-40°, 320°-57°, 327°-45°, 337°-35°, 365°-62°, 376°-55°, 386°-55°, 389°-60°, 396°-63°, 428°-60°, 448°-55°, 482°-59°, 492°-65°

END

Tom Claims, Y.T.

Hole Number: Tom 61 Angle -55° Direction: East

76+ OOM Elevation 5658' Depth: 234'
3+ 65E

Date Started: August 25, 1968 Date Finished: August 30, 1968

Drilled by Midwest Drilling Logged by A.T. Baumgartner

0.0 - 14.0 Casings: 14"Bx, Start of core @ 14'

14.0 - 120.1 Conglomerate
Core rusty & broken

120.1 - 188.2 Banded gray argillite
Fine sandstone layers less than 1" wide
Core rusty & broken
Scattered very slight pyrite (rusty)
Core angles: 121°-32°, 128°-24°, 133°-26°, 141°-40°, 147°-25°, 152°-23°, 158°-17°, 164°-24°, 175°-26°, 179°-27°, 187°-21°
Conglomerate: 133.5-136.3, 142.0-143.5, 156.5-157.5, 171.2-174.2, 175.0-176.4
Lost core: 165-170

188.2 - 234.0 Conglomerate
Several very narrow bands of argillite
Core rusty & broken
Core angle @ 217°-30°

END

Hole was abandoned due to excessive flattening.
Casing at surface settled at 53', 40' test was 52', and 200°-45°

Tom Claims, I.T.

Hole Number: Tom 62 Angle -60° Direction: East
76 +00N Elevation 5658' Depth: 914'
3 +65E

Date Started: August 31, 1968 Date Finished: September 14, 1968

Drilled by Midwest Drilling Logged by A.T. Baumgartner

0.0 - 18.0 Casings: 8"Nx. 18"Bx,
Start of core at 15'

15.0 - 156.8 Conglomerate
Core rusty & broken
72.6 - 79.7 Interbedded argillite & conglomerate
Core angle at 74' = 28°

156.8 - 203.5 Well banded argillite
Interbedded fine sandstone layers less than 1" wide
Scattered slight pyrite in sandstone layers
Core rusty & broken
171.3-176.4 Interbedded argillite & conglomerate
Core angles @ 164'=28°, 183'=25°

203.5 - 391.9 Conglomerate
Core rusty & broken to 275'
Odd quartz stringer

391.9 - 690.5 Well banded argillite
Interbedded fine sandstone layers less than 1" wide
Scattered slight pyrite usually in sandstone layers
Scattered narrow sections of minor fracturing with
quartz-carbonate and/or very slight graphite filling
veinlets
Several pyrite or sandstone concretions
391.9-395.0 Well fractured
Conglomerate: 406.0-406.9, 418.9-420.9, 444.6-446.7,
448.5-449.3
Lost core: 428.0-433.5, 475.9-480.0, 489.0-491.0
452.0-472.0 Interbedded with narrow bands of con-
glomerate
480.0-493.0 Well-fractured & graphitic
662.0-690.5 Fractured & contorted, core angle close
to 0° for most of section, pyrite and sandstone
concretions common
Core angles at 399=36, 408=35, 414=40, 434=30, 443=40,
448=36, 457=32, 496=35, 512=42, 524=42, 537=42, 552=44,
561=43, 574=34, 586=49, 596=47, 605=52, 617=58, 624=57,
640=61, 651'=66°

690.5 - 697.0 Interbedded sandstone, argillite and very fine
conglomerate
Section consists 60% sandstone, 20% argillite and
20% conglomerate

Tom 62

- 2 -

697.0 - 823.5 Graphitic well banded argillite
Interbedded sandstone layers less than 3" wide
Slight to mineralized pyrite
Scattered pyrite & sandstone concretions
Fractured for most part with quartz stringers and
veinlets common, odd carbonate stringer & veinlet
732.3-733.3 80% sandstone
734.6-736.0 50% quartz
740.7-743.3 80% ~~quartz~~ sandstone
775.0-823.5 Well fractured, many quartz-carbonate
stringers & veinlets, Quartz-carbonate: 789.5-790.3,
795.0-795.5, 799.0-799.7, 800.7-801.7, 806.8-807.9,
812.7-813.2, 818.9-819.6.
Lost core: 782.0-789.5, 795.5-797.7
Core angles at 706=46, 720=53, 733=51, 747=34, 750=30,
759=53, 765=45, 774=49, 794=42, 815=31, 818'=42

823.5 - 888.2 Banded, contorted and fractured baritic limestone
Lost core: 882.5-884.4
823.5 - 837.5 Well mineralized to solid galena,
sphalerite and pyrite
838.8 - 888.2 Mineralized to near solid galena,
sphalerite and pyrite, 886.3-887.0 very slight
chalcopyrite

888.2 - 914.0 Fractured graphitic argillite with quartz stringers
Scattered narrow bands of limestone to 906.5'
Sections cherty
888.2 - 896.7 Very slight to slight galena and
sphalerite, Slight to mineralized pyrite
896.7 - 906.5 Mineralized to near solid galena,
sphalerite and pyrite
906.5 - 914.0 Very slight galena & sphalerite, very
slight to slight pyrite

Casing left in hole