DRILL HOLE LOG UKON JOINT VENTURE SURPRIZE CLAIMS, YUKON 1978

006834

HOLE COLLARED AT 948 S, 86 W

DESCRIPTION HOLE NO. S6 PAGE 1 OF 2

AZ: 004° DIP: -60° ANGLE FOLIATION TO CORE AXIS

FOOTAGE	SLUDGE SAMPLE NO.	WEIGHT LBS	CPS*	ppm U	ppb Au	CORE SAMPLE NO.	% RECOV.	CPS*	ppm U	ppb Au	HOLE DEPTH ft.
5											5
10											10
	A1811	17	170/170	30		A1931	8	200/200	<0.5		11
15	A1812	19	190/170	<0.5		A1932	13	200/200	<0.5		15
20	A1813	18	205/170	<0.5		A1933	38	200/200	<0.5		20
25	A1814	17	190/170	30		A1934	10	200/200	<0.5		25
30	A1815	19	180/170	26		A1935	8	200/200	<0.5		30
35	A1816	27	210/170	38		A1936	17	200/200	<0.5		35
40	A1817	34	220/170	53		A1937	13	200/200	<0.5		40
45	A1818	23	200/180	36		A1938	3	200/200	<0.5		45
50	A1819	32	175/170	36		A1939	30	200/200	<0.5		50 51
55	A1820	14	180/180	26		A1940	16	200/200	<0.5		55
60	A1821	6	180/180	36							59 60
65	A1822	10	185/180	36		A1941	24	200/200	18		63 65
70	A1823	8	180/180	31		A1942	15	200/200	25		70 71
75											

SCHIST-GNEISS UNIT - Psn (KLONDIKE SCHIST)

OCCASIONAL UP TO 2FT BANDS OF GRAPHITE SCHIST, NARROW LENSES OF QUARTZ COMMON. FAIR TO MODERATE NUMBER OF CAVITIES, OFTEN CONCENTRATED ALONG FOLIATION, USUALLY EMPTY SOME WEAK LINING OF JAROSITE, FAIR TO MODERATE EXOTIC JAROSITE ALONG AND INDIGENOUS JAROSITE ALONG FOLIATION.

— WHITE QUARTZ FRAGMENTS COMMON, MODERATE CAVITIES SOME BOXWORK AND FAIR JAROSITE AND GOETHITE LINING CAVITIES

RARE NARROW WHITE QUARTZ LENSES AND VEINLETS. OCCASIONAL CAVITY LINED WITH JAROSITE

MODERATE WHITE QUARTZ LENSES WITH FAIR NUMBER OF OPEN FRACTURES AND CAVITIES USUALLY QUARTZ CRYSTAL LINED. CAVITIES EMPTY, AFTER 45 FT MASSIVE JAROSITE FILLING COMMON. FRACTURES LINED WITH INDIGENOUS AND EXOTIC JAROSITE.

— FAULT - 0.2 FT BLACK MUD

QUARTZ SERICITE CHLORITE SCHIST

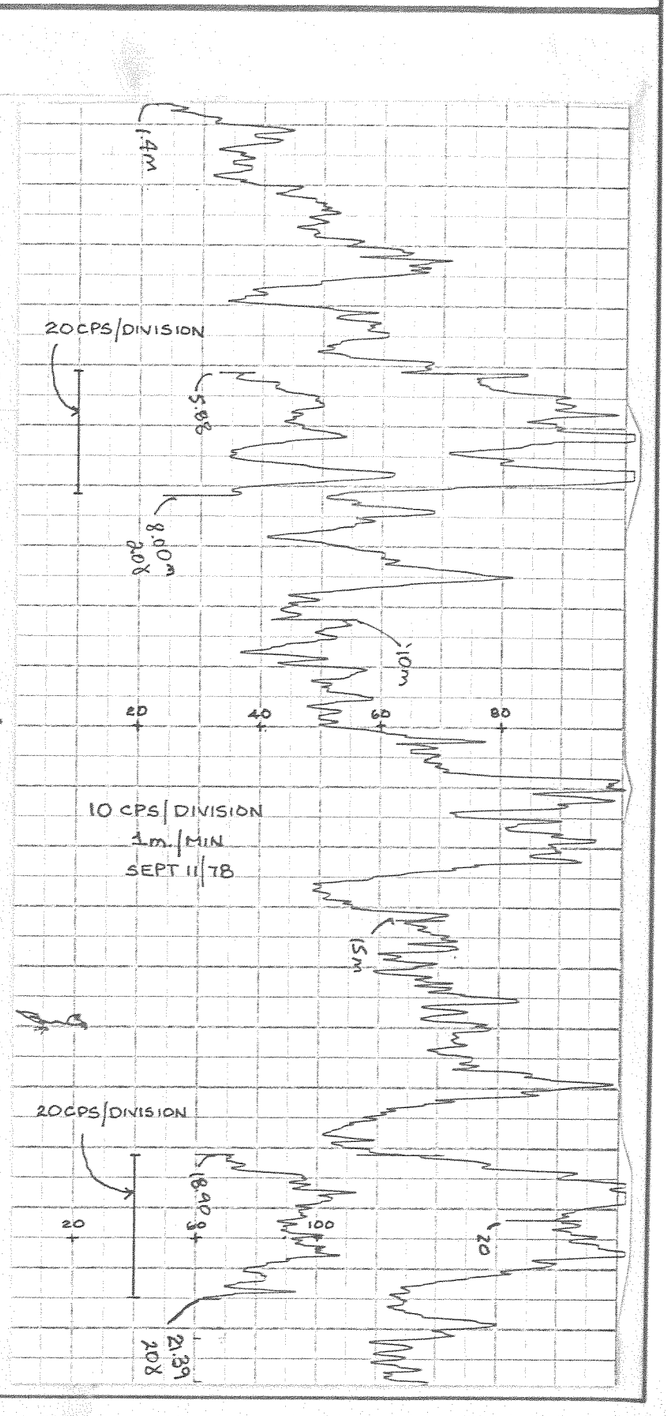
PERMAFROST - GOOD CORE RECOVERY

QUARTZ CHLORITE SCHIST

HIGH IN QUARTZ, OCCASIONAL GRAPHITE PARTINGS AND BANDS UP TO 20mm. TOWARDS BOTTOM CONTACT. FAIR TO ABOVE AVERAGE FINE CAVITIES, USUALLY MORE NUMEROUS IN QUARTZ RICH SECTIONS. CAVITIES EMPTY - MODERATE FILLING OF GOETHITE. JAROSITE AND GOETHITE ABOVE AVERAGE ALONG FRACTURES AND ALONG FOLIATION

0° 90° 90° 25° 45° 0° 0°

MOUNT SOPRIS GAMMA PROBE LOG



* — CPS — 120/100 — COUNTS PER SECOND OVER BACKGROUND USING SCINTREX BGS ISL (43.4 cc CRYSTAL) SCINTILLOMETER

DRILL HOLE LOG UKON JOINT VENTURE SURPRIZE CLAIMS, YUKON 1978

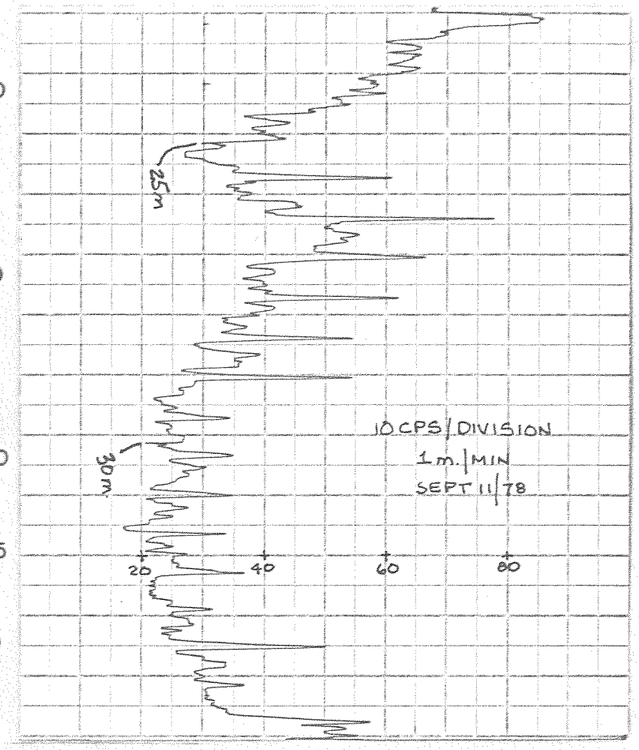
HOLE NO. 56 PAGE 2 OF 2

ANGLE FOLIATION TO CORE AXIS

FOOTAGE	SLUDGE SAMPLE NO.	WEIGHT LBS	CPS*	ppm U	ppb Au	CORE SAMPLE NO.	% RECOV.	CPS*	ppm U	ppb Au	HOLE DEPTH ft	DESCRIPTION
80	A1824	6	180/180	31		A1943	80	200/200	14		80	QUARTZ CHLORITE SCHIST — SEE PAGE 1 FOR DESCRIPTION
												PERMAFROST - GOOD CORE RECOVERY
85	A1825	5	180/180	22		A1944	78	200/200	6.5		85	
	A1726	6	180/180	26							87	
90	A1727	7	180/180	20		A1945	22	200/200	5.0		90	
												FIRST FRESH PYRITE
95	A1728	30	180/180	15							95	
						A1946	25	200/200	7.5		97	FAULT ? - QUARTZ AND GRAPHITE
100	A1729	17	170/170	7.5							100	CHLORITE TALC SCHIST — SOFT, LIGHT GRAY IN COLOR, OCCASIONAL GRAPHITE PARTING, FAIR NARROW WHITE QUARTZ LENSES WITH CAVITIES AND FRACTURES OFTEN QUARTZ CRYSTAL LINED AND LIGHT LINING OF JAROSITE AND GOETHITE. FAIR-MODERATE (1-3%) DISSEMINATED PYRITE. FAIR-MODERATE CAVITIES WITH MASSIVE FILLING OF GOETHITE. JAROSITE ON FRACTURES ONLY WHERE FRACTURING WELL DEVELOPED.
						A1947	65	200/200	1.5		105	
105	A1730	19	170/170	7.0							107	
						A1948	28	200/200	1.5		110	WHITE QUARTZ
110	A1731	17	170/170	7.0							111	
						A1949	18	200/200	7.5		113	FAULT - SOFT SCHIST, QUARTZ LENSE WITH STRONG JAROSITE.
115	A1732	17	170/170	6.0		A1950	32	200/200	2.0		115	
120	A1733	5	170/170	1.5							120	END OF HOLE - ABANDONED DUE TO CAVE
125											125	
												HOLE REAMED FROM 60' TO 80' AND ABANDONED AT 120' WHEN RODS SANDED IN TOO TIGHT TOO TURN.
130											130	
135											135	
140											140	
145											145	
150												

0° 0° 0° 0°

MOUNT SOPRIS GAMMA PROBE LOG



* — CPS — 120/100 — COUNTS PER SECOND OVER BACKGROUND USING SCINTREX BGS ISL (43.4 cc CRYSTAL) SCINTILLOMETER

DRILL HOLE LOG UKON JOINT VENTURE SURPRIZE CLAIMS, YUKON 1978

HOLE COLLARED AT 950 S, 86 W
DESCRIPTION HOLE NO. S5 PAGE 1 OF 4
AZ: 116° DIP: -60° ANGLE FOLIATION TO CORE AXIS

FOOTAGE	SLUDGE SAMPLE NO.	WEIGHT LBS	CPS *	ppm U	ppb Au	CORE SAMPLE NO	% RECOV	CPS *	ppm U	ppb Au	HOLE DEPTH ft
5											5
10	A1767	17½	165/165	28		11391	18	220/220	3.0		10
15	A1768	22½	165/165	8		11392	8	220/220	5.0		15
20	A1769	15	160/160	7.5		11393	20	230/220	6.0		20
25	A1770	16	170/160	28		11394	48	240/220	7.5		25
30	A1771	12	165/165	26		11395	28	230/220	3.5		30
35	A1772	11	160/160	9.5		11396	22	220/220	4.0		35
40	A1773	19	160/160	36		11397	15	220/220	5.5		40
45	A1774	26	170/160	34		11398	10	220/220	7.0		45
50	A1775	19	170/160	43			0				50
55	A1776	36	190/160	58		11399	20	220/220	1.5		55
60	A1777	30	175/160	38		11400	50	220/220	48		60
65	A1778	14	170/160	40			0				65
70	A1779	6	160/160	7.5		A1851	15	220/220	<0.5		69
75						A1852	15	230/220	<0.5		70

SCHIST-GNEISS UNIT-PSN-KLONDIKE SCHIST

GRAPHITE SCHIST

NORMALLY QUARTZ RICH. NARROW BANDS OF WHITE QUARTZ. CAVITY MODERATE TO HIGH, EMPTY-LOW NUMBER. LINED WITH INDIGENOUS JAROSITE. FRACTURE EXOTIC JAROSITE ABOVE AVERAGE TO HIGH.

10 — WHITE VUGGY QUARTZ, CAVITIES LINED WITH INDIGENOUS JAROSITE-GOETHITE

13

15 — SAND-GRAPHITE SCHIST

17

29 — HIGHLY GRAPHITIC, CAVITIES MORE NUMEROUS

41 — ONE FRAGMENT - DULL BLACK MATERIAL - NO RESPONSE SCINTILLOMETER

43

47 — STRONG FRACTURE AND DISSEMINATED JAROSITE

51

55 — WHITE QUARTZ, CAVITIES COMMON, EMPTY TO SPOTTY SEMI-MASSIVE JAROSITE FILLING

57

60 — FAULT - 0.1 FT MUD

61 — FAULT - 0.7 FT BROWN MUD

63 — FAULT - 1.3 FT SANDED AND MUDDED HIGH FRACTURE JAROSITE

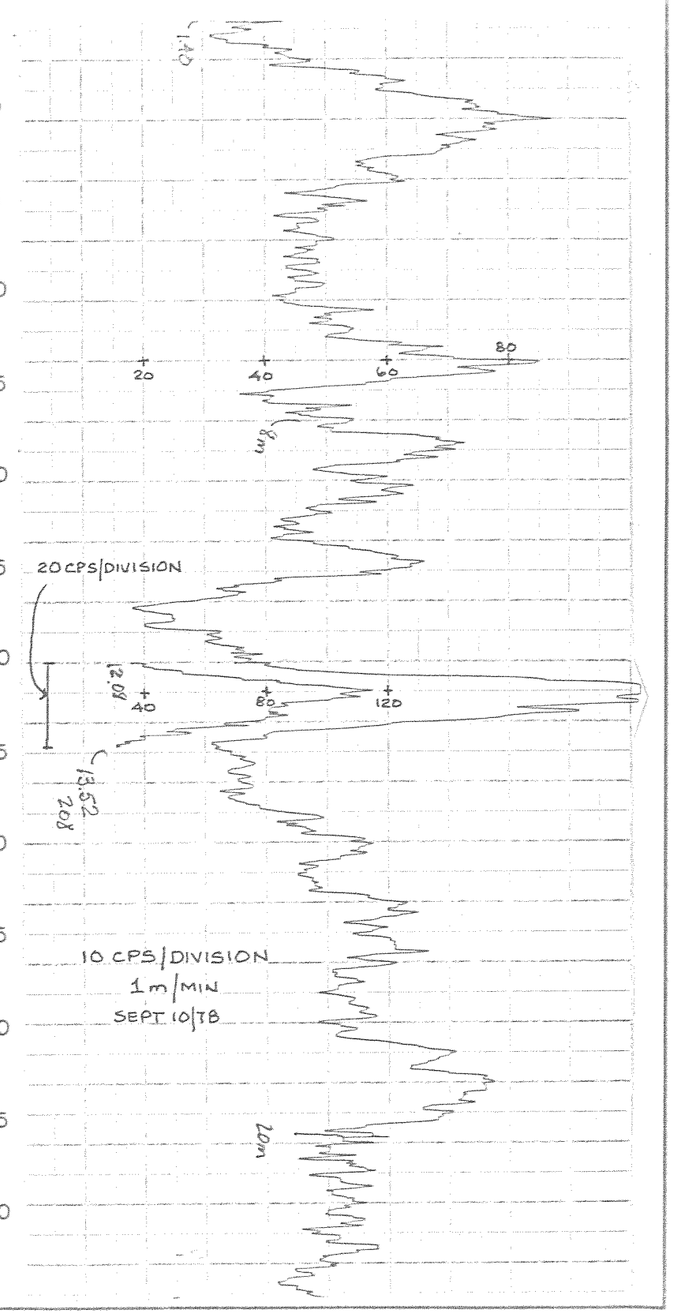
65

69 — WHITE QUARTZ - OPEN AND QUARTZ CRYSTAL LINED FRACTURES AND CAVITIES. JAROSITE AND GOETHITE ONLY ON FRACTURES.

QUARTZ-GRAPHITE SCHIST

NORMALLY QUARTZ RICH, NARROW BANDS AND VEINLETS OF WHITE QUARTZ CAVITIES MODERATE - ABOVE AVERAGE LINED TO MASSIVE FILLING OF INDIGENOUS JAROSITE. EXOTIC JAROSITE ALONG FRACTURES STRONG TO INTENSIVE

MOUNT SOPRIS GAMMA PROBE LOG



* — CPS — 120/100 — COUNTS PER SECOND OVER BACKGROUND USING SCINTREX BGS ISL (43.4 cc CRYSTAL) SCINTILLOMETER

DRILL HOLE LOG UKON JOINT VENTURE SURPRIZE CLAIMS, YUKON 1978

HOLE NO. 55 PAGE 2 OF 4

ANGLE FOLIATION TO CORE

FOOTAGE	SLUDGE SAMPLE NO.	WEIGHT LBS	CPS*	ppm U	ppb Au	CORE SAMPLE NO.	% RECOV.	CPS*	ppm U	ppb Au
80	A1780	11	160/160	8.0		A1853	37	220/220	5.0	
85	A1781	9	160/160	7.5		A1854	88	220/220	5.5	
90	A1782	14½	170/160	6.5		A1855	37	220/220	14	
95	A1783	21	160/160	8.0		A1856	60	220/220	3.0	
100	A1784	11½	160/160	7.5		A1857	83	220/220	3.5	
105	A1785	18	160/160	7.0		A1858	43	220/220	2.5	
110	A1786	13	165/160	5.5		A1859	40	230/220	3.5	
115	A1787	13½	160/160	3.5		A1860	32	220/220	<0.5	
120	A1788	20	160/160	2.0		A1861	27	220/220	<0.5	
125	A1789	9½	160/160	2.0		A1862	28	220/220	<0.5	
130	A1790	23	160/160	1.0		A1863	37	230/220	<0.5	
135	A1791	13	160/160	0.5		A1864	0			
140	A1792	9	160/160	<0.5		A1864	25	220/220	<0.5	
145	A1793	12	160/160	1.5		A1865	7	220/220	<0.5	
150	A1794	7	160/160	1.0		A1866	22½	220/220	<0.5	
						A1867	15	220/220	<0.5	

HOLE DEPTH ft

77 80 83 90 91 93 95 96 100 103 105 109 110 111 115 120 125 133 135 140 141 143 145 147 149

DESCRIPTION

SEE DESCRIPTION 69-75 FT.

QUARTZ CHLORITE SCHIST

QUARTZ CONTENT HIGH. MINOR NARROW WHITE QUARTZ LENSES, OFTEN OPEN FRACTURES WITH WEAK JAROSITE CAVITIES LOW-FAIR USUALLY MASSIVE FILLING OF JAROSITE. FRACTURE EXOTIC JAROSITE LOW BUT TOWARDS BOTTOM CONTACT. GOETHITE MORE COMMON THAN JAROSITE. ROCK HIGHLY WEATHERED ALONG FOLIATION

- WHITE QUARTZ, CAVITIES LINED WITH JAROSITE
- GOETHITE ON FRACTURES
- AFTER 93 FT CAVITIES NOT COMMON - EMPTY RARELY INDIGENOUS SEMI MASSIVE FILLING OF JAROSITE. FRACTURE AND FOLIATION
- JAROSITE AND GOETHITE LOW

SANDED, UP TO ¼" SCHIST AND WHITE QUARTZ FRAGMENTS

- INCREASING NUMBER OF GRAPHITE PARTINGS
- START OF PYRITE

QUARTZ GRAPHITE SCHIST

QUARTZ CONTENT HIGH. CAVITIES LOW TO FAIR IN AMOUNT, USUALLY EMPTY RARELY INDIGENOUS MASSIVE FILLING OF JAROSITE. FRACTURE EXOTIC JAROSITE ABOVE AVERAGE TO 111 FT AND THEN LOW TO FAIR. DISSEMINATED PYRITE LOW, UP TO 3 MM IN DIAMETER

- QUARTZ CHLORITE SCHIST

CHLORITE QUARTZ SCHIST

CHLORITE HIGH, QUARTZ CONTENT LOW. CAVITIES LOW TO FAIR WITH INDIGENOUS JAROSITE AND LOW TO MODERATE FRACTURE JAROSITE FAIR DISSEMINATED PYRITE.

- TRANSITION FROM MODERATE TO LOW FRACTURE JAROSITE
- FAIR DISSEMINATED AND FRACTURE JAROSITE

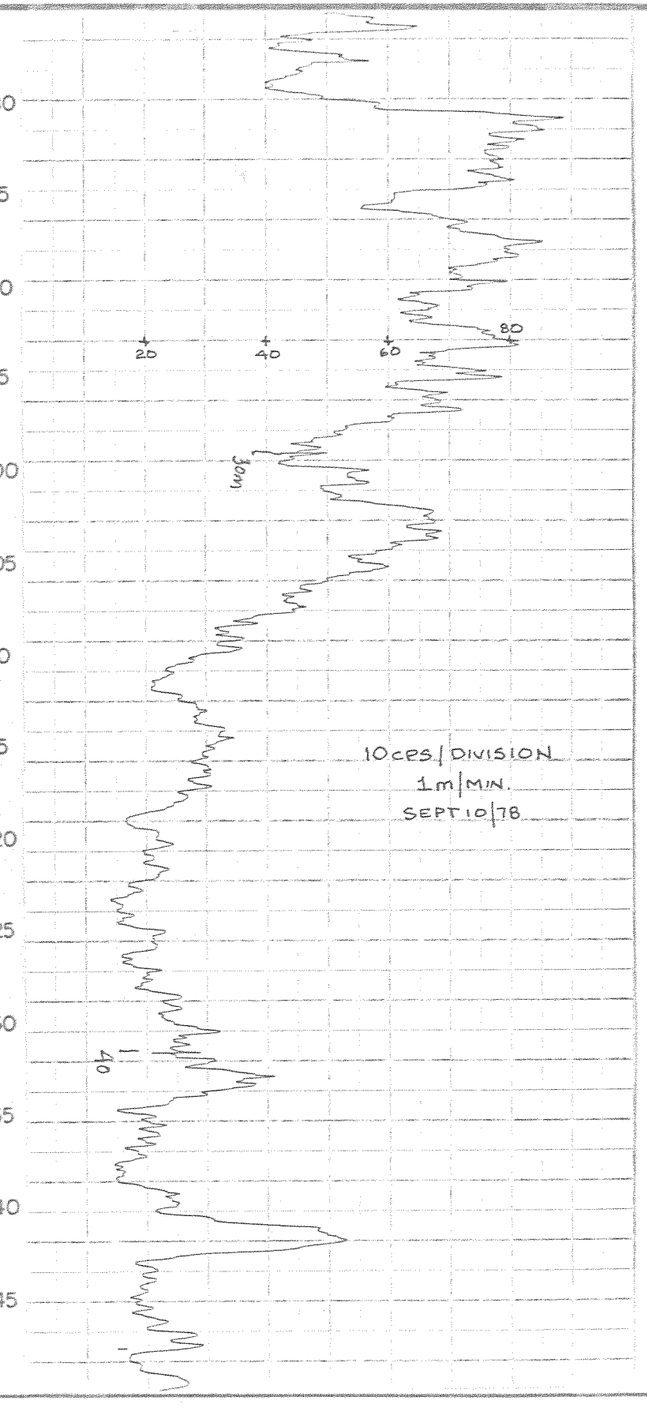
GRAPHITIC QUARTZITE

HIGHLY GRAPHITIC, CORE HIGHLY BROKEN AND ONLY SMALL FRAGMENTS, NARROW <0.2 FT WHITE QUARTZ LENSES. MODERATE DISSEMINATED AND FAIR QUARTZ AND CRACK FILLING PYRITE. TRACES OF FRACTURE JAROSITE. POSSIBLE FAULT ZONE AS CORE HIGHLY BROKEN AND SLICKENSIDES COMMON ALONG FOLIATION

- FAIR DISSEMINATED MASSIVE FILLING AND FRACTURE JAROSITE
- STRONG FINE WHITE QUARTZ VEINING

FOOTAGE AXIS: 40° 10° 60° 45° 45° 30° 45°

MOUNT SOPRIS GAMMA PROBE LOG



* — CPS — 120/100 — COUNTS PER SECOND OVER BACKGROUND USING SCINTREX BGS ISL (43.4 cc CRYSTAL) SCINTILLOMETER

DRILL HOLE LOG UKON JOINT VENTURE SURPRIZE CLAIMS, YUKON 1978

HOLE NO. S5 PAGE 3 OF 4

ANGLE FOLIATION TO CORE AXIS

FOOTAGE	SLUDGE SAMPLE NO.	WEIGHT LBS	CPS*	ppm U	ppb Au	CORE SAMPLE NO.	% RECOV.	CPS*	ppm U	ppb Au
155	A1795	9	160/160	1.0		A1868	13	220/220	<0.5	
	A1796	10	160/160	1.0		A1869	13	220/220	<0.5	
160	A1797	9	160/160	1.0						
165	A1798	11½	160/160	<0.5		A1870	10	230/220	<0.5	
170	A1799	13	160/160	1.0		A1871	8	220/220	<0.5	
175	A1800	11½	160/160	<0.5		A1872	15	230/220	<0.5	
180	A1801	18	165/165	<0.5		A1873	20	220/220	<0.5	
185	A1802	18	165/165	<0.5		A1874	10	220/220	<0.5	
190	A1803	8	160/160	<0.5		A1875	48	220/220	<0.5	
195	A1804	5½	160/160				0			
200	A1805	17	160/160	1.0		A1926	20	220/220	<0.5	
205	A1806	14	155/155	<0.5		A1927	12	220/220	<0.5	
210	A1807	23	170/160	<0.5		A1928	15	220/220	<0.5	
215	A1808	36	165/160	<0.5		A1929	18	220/220	<0.5	
220	A1809	26	160/160	<0.5		A1930	15	220/220	<0.5	
225										

HOLE DEPTH ft.

153 155 157 160 163 165 167 169 170 175 177 180 181 185 190 195 200 205 210 215 220

DESCRIPTION

GRAPHITIC QUARTZITE

0.1 FT QUARTZ-CAVITY LINED WITH WHITE PRISMATIC CRYSTALS, HARDNESS = 4 HEULANDITE?

MAINLY WHITE QUARTZ WITH CAVITIES LINED BY COARSE FELDSPAR CRYSTALS

WHITE QUARTZ WITH COARSE FELDSPAR CRYSTALS, HIGHLY VUGGY WITH JAROSITE LINING

WHITE QUARTZ WITH COARSE FELDSPAR CRYSTALS

HIGHLY BROKEN, QUARTZ FRAGMENTS COMMON BLACK MUD COMMON.

WHITE QUARTZ WITH MUD

WHITE QUARTZ WITH GRAPHITIC MUD BANDS AND PARTINGS

STRONG FINE WHITE QUARTZ VEINING, OFTEN WITH SLICKENSIDED GRAPHITIC PARTINGS TO 227 FT.

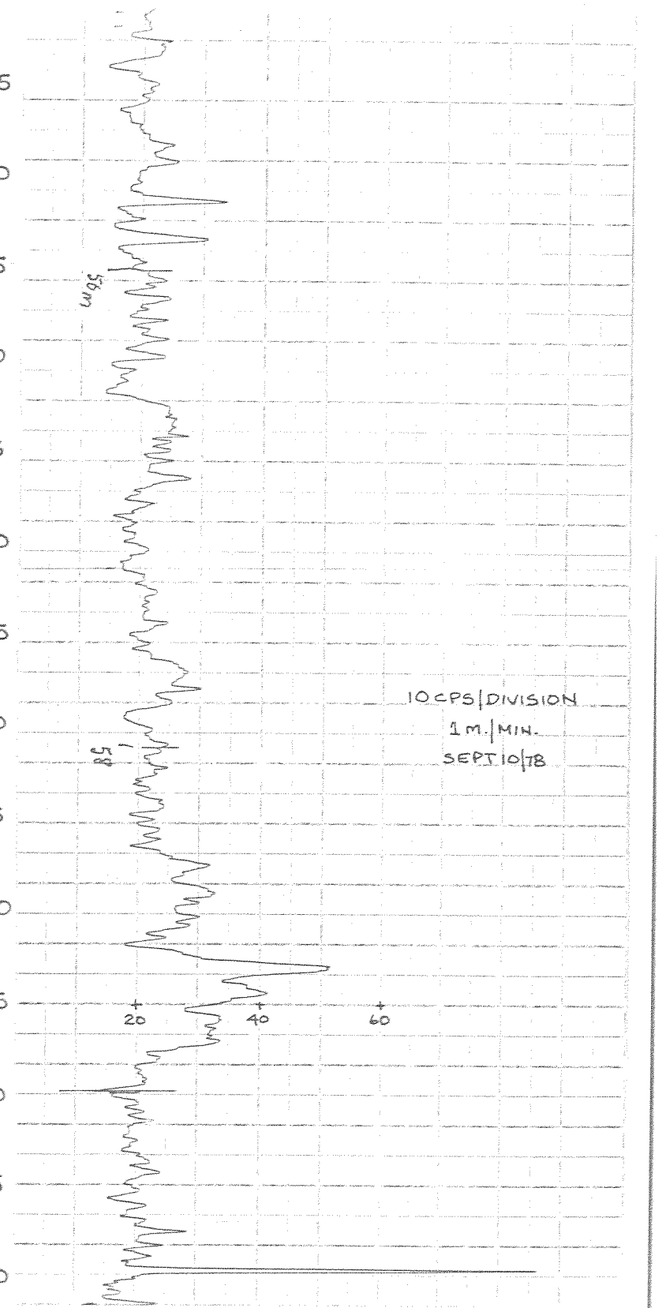
GRAPHITIC QUARTZITE FAULT ZONE

WEAK TO FAIR GRAPHITE. STRONG QUARTZ LENSES AN VEINLETS. OFTEN WHITE QUARTZ HAS COARSE FELDSPAR CRYSTALS, DECREASING TOWARDS BOTTOM. DISSEMINATED PYRITE, FAIR UP TO 3 MM OCCASIONALLY IN WHITE QUARTZ VEINLETS AND NARROW LAMINAE ALONG FOLIATION.

75° 80° 85°

MOUNT SOPRIS GAMMA PROBE LOG

FOOTAGE 155 160 165 170 175 180 185 190 195 200 205 210 215 220



* — CPS — 120/100 — COUNTS PER SECOND OVER BACKGROUND USING SCINTREX BGS ISL (43.4 cc CRYSTAL) SCINTILLOMETER

DRILL HOLE LOG UKON JOINT VENTURE SURPRIZE CLAIMS, YUKON 1978

FOOTAGE	SLUDGE SAMPLE NO.	SLUDGE WEIGHT LBS	SLUDGE CPS*	SLUDGE ppm U	SLUDGE ppb Au	CORE SAMPLE NO.	CORE % RECOV.	CORE CPS*	CORE ppm U	CORE ppb Au	HOLE DEPTH ft.	DESCRIPTION — HOLE NO. S5 PAGE 4 OF 4
	A1810	20	160/160	1.0		A1930	15	220/220	<0.5		227	GRAPHITIC QUARTZITE FAULT ZONE 0.2 FT WHITE QUARTZ-FLUORITE LINED CAVITIES END OF HOLE-ABANDONED DUE TO CAVE

HOLE REAMED 41' TO 61', 112' TO 187'. BIT AND CORE BARREL WEARING OUT ON CAVE, HOLE ABANDONED WHEN SECOND CORE BARREL COMPLETELY WORN AWAY

FOOTAGE — MOUNT SOPRIS GAMMA PROBE LOG

* — CPS — 120/100 — COUNTS PER SECOND OVER BACKGROUND USING SCINTREX BGS ISL (43.4 cc CRYSTAL) SCINTILLOMETER

DRILL HOLE LOG UKON JOINT VENTURE SURPRIZE CLAIMS, YUKON 1978

FOOTAGE	SLUDGE SAMPLE NO	WEIGHT LBS	CPS *	ppm ≠ U	ppb Au	CORE SAMPLE NO	% RECOV	CPS *	ppm ≠ U	ppb Au	HOLE DEPTH ft
5											5
10											10
15	11443	22½	170|170	<4.0		11270	8	160|160	<4.0		15
20											19 20 21
25	11444	6	170|170	<4.0		11271	37	160|160	<4.0		23 25
30	11445	8½	175|175	<4.0							30 31
35	11446	9½	170|170	4.5		11272	26	160|160	6.0		35 37
40	11447	12	170|170	4.5							40 43
45	11448	6	170|170	25		11273	18	160|160	7.0		45 47
50	11449	9½	170|170	22							50
55	11450	17	170|170	29		11274	16	160|160	7.0		55
60	11253	8½	170|170	16							60
65	11254	8	170|170	23		11275	30	160|150	42		63 65
70	11255	17	170|170	44							70
75	11256	26	180|170	53		11276	67	190|160	44		

HOLE COLLARED AT 930 S, 48 E

DESCRIPTION HOLE NO. S4 PAGE 1 OF 5

AZ: 172° DIP: -50° ANGLE FOLIATION TO CORE AXIS

SCHIST-GNEISS UNIT - PSN (KLONDIKE SCHIST)

CHLORITE SCHIST

MINOR QUARTZ CHLORITE SCHIST AND GRAPHITE PARTINGS. MINOR NARROW QUARTZ LENSES. ROCK HIGHLY WEATHERED. CAVITIES EMPTY.

FAULT? - PORPHYRY (DIKE?) CHLORITE SCHIST MUD WITH WHITE QUARTZ FRAGMENTS

FAULT? - MUDDED SCHIST WITH JAROSITE COATING

FAULT - SCHIST MUD

TRACE - FAIR DISSEMINATED AND FRACTURE JAROSITE 31-37 FT.

QUARTZ GRAPHITE SCHIST

IN PLACES HIGH QUARTZ CONTENT. MINOR CHLORITE AND QUARTZ CHLORITE SCHIST. INDIGENOUS JAROSITE LINING CAVITIES, EXOTIC LIMONITE ON FRACTURES

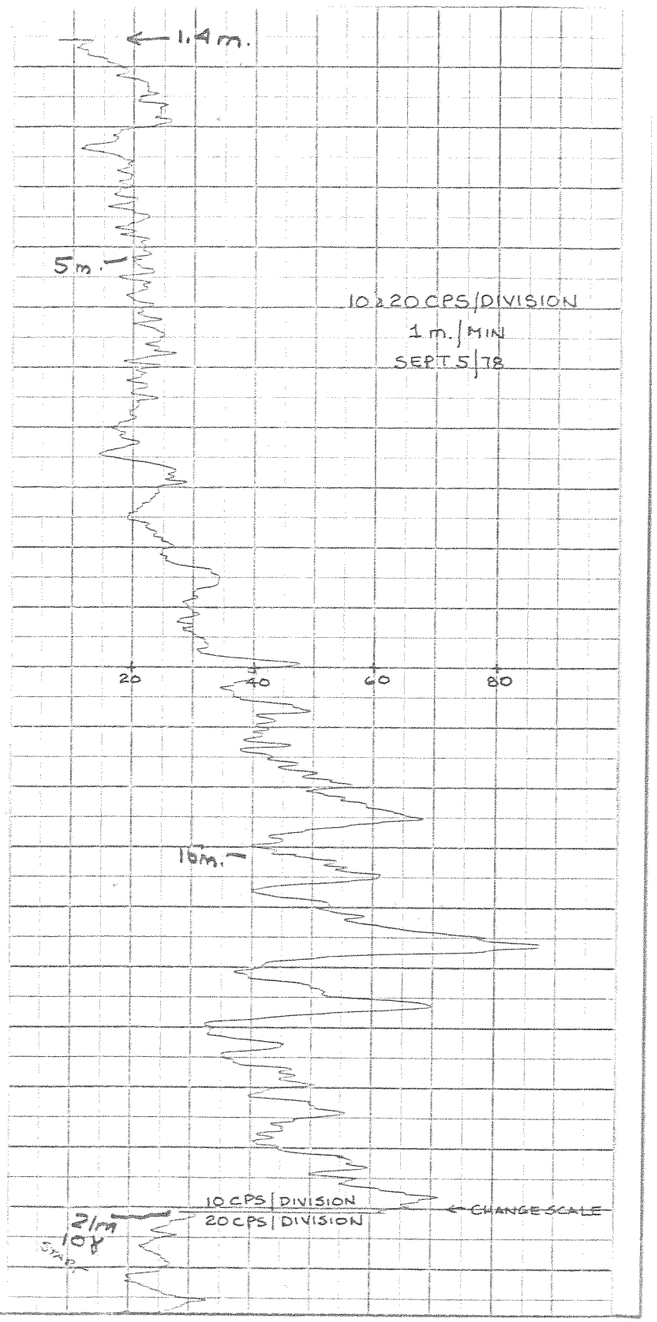
GRAPHITIC QUARTZITE, IN PLACES MUDDED AND BROKEN QUARTZ AN GRAPHITE SCHIST - FAULT. FAIR - ABOVE AVERAGE DISSEMINATED AND FRACTURE JAROSITE

FAIR FRACTURE AND TRACE DISSEMINATED JAROSITE

FAULT - 0.1 FT BLACK MUD

CAVE - 5 FT RECOVERY

MOUNT SOPRIS GAMMA PROBE LOG



* — CPS — 120/100 — COUNTS PER SECOND OVER BACKGROUND USING SCINTREX BGS ISL (43.4 cc CRYSTAL) SCINTILLOMETER

≠ U LESS THAN 4 DETECTION LIMIT DUE TO FLUORESCENCE QUENCHING CAUSED BY HIGH CONCENTRATION OF INTERFERING METALS

DRILL HOLE LOG UKON JOINT VENTURE SURPRIZE CLAIMS, YUKON 1978

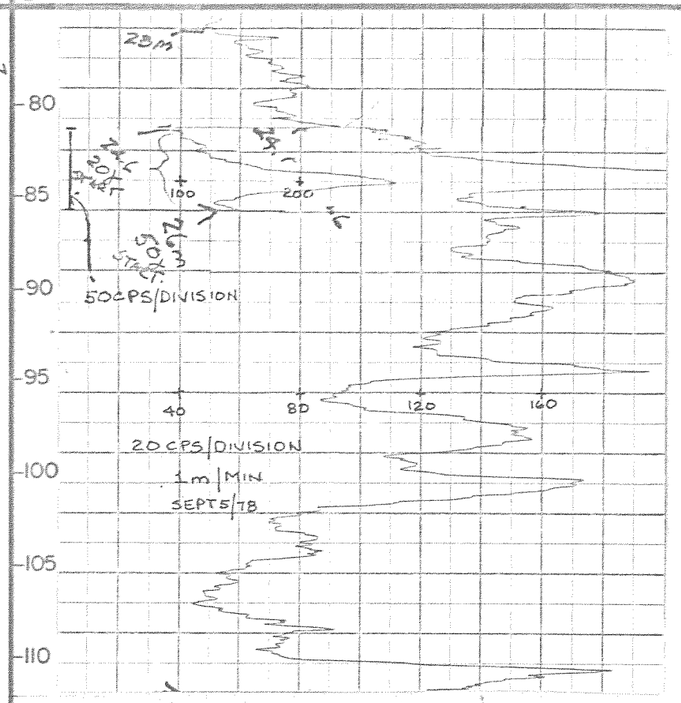
HOLE NO. S4 PAGE 2 OF 5

ANGLE FOLIATION TO CORE AX

FOOTAGE	SLUDGE SAMPLE NO.	WEIGHT LBS	CPS*	ppm U	ppb Au	CORE SAMPLE NO.	% RECOV.	CPS*	ppm U	ppb Au
80	11257	6	170/170	56		11277	36	170/170	38	
85	11258	14	170/165	72		11278	20	160/160	41	
	11259	12	180/170	77			0			
90	11260	6	180/170	71						
95						11351	25	160/160	4.6	
	11261	17	180/165	63		11352	35	160/160	28	
100							0			
	11262	6	180/170	38						
105						11353	25	160/160	8.5	
	11263	8	165/165	31		11354	15	160/160	7.0	
110							0			
	11264	13	170/170	32		11355	33	160/160	7.5	
115										
	11265	11	170/170	31						
120						11356	4	160/160	4.0	
	11266	7	170/170	19						
125										
	11267	7	170/170	14		11357	15	160/160	2.5	
130							0			
	11268	6½	175/160	29						
135										
	11269	4	160/160	20		11358	33	160/160	23	
140							0			
	11279	4	155/150	32						
145						11359	25	160/160	5.0	
	11280	5½	150/150	33			0			
150										

HOLE DEPTH ft	DESCRIPTION
	QUARTZ GRAPHITE SCHIST
	SEE PAGE 1 FOR DESCRIPTION
79	
80	FAULT - 0.5 FT MUD
81	FAULT - 0.2 FT MUD
	ABOVE AVERAGE DISSEMINATED AND FRACTURE JAROSITE
83	
85	
90	
93	
	ABOVE AVERAGE DISSEMINATED AND FRACTURE JAROSITE. TRACE PYRITE.
95	
97	
100	
103	
	MODERATE - ABOVE AVERAGE DISSEMINATED AND FRACTURE INDIGENOUS JAROSITE. CAVITIES
105	
107	MASSIVE
110	
111	
	FAIR DISSEMINATED AND FRACTURE JAROSITE. CAVITIES MASSIVE JAROSITE TRACE PYRITE.
115	
117	
120	
123	
	CHLORITIC QUARTZITE
	IN PLACES GRAPHITIC, MINOR NARROW WHITE QUARTZ LENSES WITH OPEN UNUNED FRACTURES.
125	
	MODERATE - ABOVE AVERAGE DISSEMINATED AND FRACTURE JAROSITE, - IN PLACES MASSIVE LINING. PYRITE TRACE TO FAIR
130	
135	
140	
145	

MOUNT SOPRIS
GAMMA PROBE LOG



NOT PROBED AS RODS FILLED WITH SAND

* — CPS — 120/100 — COUNTS PER SECOND OVER BACKGROUND USING SCINTREX BGS ISL (43.4 cc CRYSTAL) SCINTILLOMETER

DRILL HOLE LOG UKON JOINT VENTURE SURPRIZE CLAIMS, YUKON 1978

HOLE NO. S4 PAGE 3 OF 5

FOOTAGE	SLUDGE SAMPLE NO.	WEIGHT LBS	CPS*	ppm U	ppb Au	CORE SAMPLE NO.	% RECOV.	CPS*	ppm U	ppb Au
155	11281	7¾	150/150	37			0			
	11282	14	150/150	20		11360	13	160/160	5.0	
160						11361	40	160/160	8.5	
	11283	5½	150/150	24			0			
165										
	11284	7½	150/150	3.0		11362	30	150/150	8.5	
170										
	11285	5½	160/150	20		11363	63	150/150	8.5	
175										
	11286	6½	150/150	29			0			
180						11364	15	150/150	6.5	
	11287	7	170/170	29		11365	20	150/150	50	
185										
	11288	6	175/170	18		11366	30	150/150	20	
190										
	11289	11	170/170	6.5		11367	60	150/150	0.5	
195										
	11290	10½	170/165	26		11368	42	150/150	1.0	
200										
	11291	12	170/170	29		11369	45	160/160	1.0	
205										
	11292	8½	165/160	30		11370	35	160/160	<0.5	
210							0			
	11293	10½	180/170	24		11371	33	160/160	<0.5	
215										
	11294	15½	170/170	34			0			
220										
	11295	5½	175/170	43		11372	20	165/160	<0.5	
225							0			

HOLE DEPTH ft.

DESCRIPTION

ANGLE FOLIATION TO CORE AXIS

CHLORITIC QUARTZITE

155 ----------

159 --TRACE MALACHITE — FAIR DISSEMINATED AN FRACTURE JAROSITE TRACE PYRITE

160

163 ----------

165

167 ----------

170 — LOW DISSEMINATED AND FRACTURE JAROSITE, INTENSE IN GRAPHITE SCHIST BANDS

171 -- FAULT -0.1 FT MUD

173 ----------

FAULT-MUD

175 -- BOTTOM CONTACT OF WEATHERED ZONE----

180

185

WEAK COARSE (UP TO 3MM) AND VERY FINE DISSEMINATED PYRITE. JAROSITE RARELY DISSEMINATED USUALLY MINOR AMOUNT ALONG WEATHERED FRACTURES

30°

45°

40°

190

195

55°

200

25°

CHLORITIC QUARTZITE

FAIR - MODERATE COARSE (3 MM.) AND VERY FINE GRAINED PYRITE. RARE ALONG FRACTURE PURPLE METALLIC FILM - SPECULARITE? MINOR WHITE QUARTZ LENSES

205

WEAK FRACTURING WEAK WEATHERING

210

0°-40°

15°

215

CORE BROKENAND FRACTURED FAIR DISSEMINATED AND FRACTURE JAROSITE, WEAK CLAY

220

MOUNT SOPRIS GAMMA PROBE LOG

NOT PROBED AS RODS FILLED WITH SAND

* — CPS — 120/100 — COUNTS PER SECOND OVER BACKGROUND USING SCINTREX BGS ISL (43.4 cc CRYSTAL) SCINTILLOMETER

DRILL HOLE LOG UKON JOINT VENTURE SURPRIZE CLAIMS, YUKON 1978

HOLE NO. S4 PAGE 4 OF 5

FOOTAGE	SLUDGE SAMPLE NO.	WEIGHT LBS	CPS*	ppm U	ppb Au	CORE SAMPLE NO.	% RECOV.	CPS*	ppm U	ppb Au	HOLE DEPTH ft.
							0				
230	11296	3½	170/170	23		11373	30	160/160	<0.5		228
											230
	11297	2	150/150	7.5		11374	0				231
235						11374	15	160/160	<0.5		
	11298	2	150/150	6.5		11375	15	160/160	<0.5		235
240	11299	2	150/150	6.5			0				240
245	11300	4	150/150	22		11376	48	160/160	31		245
											247
250	A1751	3	150/150	16		11377	33	155/155	<0.5		250
255	A1752	9½	165/160	13		11378	35	170/170	<0.5		255
						CAVE 11379	3.3FT	170/170	24		
260	A1753	12½	160/160	14		11380	64	170/170	<0.5		260
265	A1754	8	160/160	18		11381	50	160/160	<0.5		265
270	A1755	8½	160/160	16		11382	20	160/160	<0.5		270
275	A1756	8½	160/160	21			0				275
						11383	13	160/160	<0.5		
280	A1757	7½	160/160	23			0				280
285	A1758	20½	160/160	24		11384	60	170/170	<0.5		285
											287
290	A1759	18	170/160	25		11385	60	170/170	<0.5		290
295	A1760	22½	165/160	25		11386	76	220/220	<0.5		295
											299

DESCRIPTION

CHLORITIC QUARTZITE
SEE PAGE 3 FOR DESCRIPTION.

228 – TRACES OF MALACHITE ALONG FRACTURES AND CHALCOPYRITE IN QUARTZ VEIN

231 – FAULT-HIGHLY BROKEN, GRAPHITIC CORE BROKEN-FRACTURED FAIR DISSEMINATED AND FRACTURE JAROSITE, WEAK CLAY

247 –

CHLORITE QUARTZ SCHIST
RARELY GRAPHITIC, INCREASING QUARTZ TOWARDS BOTTOM CONTACT. FAIR COARSE AND VERY FINE GRAIN DISSEMINATED PYRITE. OCCASIONAL VEINLET OF PYRITE IN CLEAR QUARTZ.

263 – INCREASING QUARTZ

287 – FAULT - MUD

288 – FAULT - MUD, CORE BROKEN, HIGHLY GRAPHITIC

QUARTZ GRAPHITE SCHIST
HIGH IN QUARTZ. NUMEROUS STRONG GOUGY PLANES - FAULTS FAIR COARSE AND MINOR FINE DISSEMINATED PYRITE. RARE JAROSITE ALONG FRACTURES

295 – FAULT - MUD

297.5 – FAULT - 0.5 FT. BROKEN QUARTZ AND GOUGE

299 – FAULT - 0.1 FT GOUGE

15°
15°
10°
50.0'
50.0'

MOUNT SOPRIS GAMMA PROBE LOG

FOOTAGE: 230, 235, 240, 245, 250, 255, 260, 265, 270, 275, 280, 285, 290, 295

RODS FILLED WITH SAND

*— CPS — 120/100 — COUNTS PER SECOND OVER BACKGROUND USING SCINTREX BGS ISL (43.4 cc CRYSTAL) SCINTILLOMETER

DRILL HOLE LOG UKON JOINT VENTURE SURPRIZE CLAIMS, YUKON 1978

HOLE NO. S4 PAGE 5 OF 5

ANGLE FOLIATION TO CORE AXIS

FOOTAGE	SLUDGE SAMPLE NO	SLUDGE WEIGHT LBS	SLUDGE CPS*	SLUDGE ppm U	SLUDGE ppb Au	CORE SAMPLE NO	CORE % RECOV	CORE CPS*	CORE ppm U	CORE ppb Au	HOLE DEPTH ft	DESCRIPTION
	A1761	25	155/150	22		11387		220/220	<0.5			WHITE QUARTZ-PARTINGS OF GRAPHITE SCHIST
305											305	
	A1762	11	150/150	20		11388		240/220	1.5			
						CAVE 11389		220/220	32			
310						11390		220/220	<0.5		310	CAVE-GRIT FRAGMENTS-SCHIST AND WHITE QUARTZ
											311	END OF HOLE-ABANDONED DUE TO CAVE

Quartz Graphite Schist

SEE PAGE 4 FOR DESCRIPTION

CAVING REQUIRED REAMING FROM 69' TO 75', 70' TO 98', 135' TO 175', 179' TO 259'. CORE BARREL LOST IN HOLE AT 311', TRIED TO REAM AND RODS FILLED WITH SAND.

MOUNT SOPRIS GAMMA PROBE LOG

FOOTAGE

RODS FILLED WITH SAND

*—CPS – 120/100 – COUNTS PER SECOND OVER BACKGROUND USING SCINTREX BGS ISL (43.4 cc CRYSTAL) SCINTILLOMETER

DRILL HOLE LOG UKON JOINT VENTURE SURPRIZE CLAIMS, YUKON 1978

HOLE COLLARED AT 988 S, 52 W

DESCRIPTION HOLE NO. S3 PAGE 1 OF 3

AZ: 104° DIP: -50° ANGLE FOLIATION TO CORE AXIS

FOOTAGE	SLUDGE SAMPLE NO	SLUDGE WEIGHT LBS	SLUDGE CPS*	SLUDGE ppm U	SLUDGE ppb Au	CORE SAMPLE NO	CORE % RECOV	CORE CPS*	CORE ppm U	CORE ppb Au	HOLE DEPTH ft
5			LOST CIRCULATION - NO SLUDGES								5
10											10
15											15
20											20
25											25
30											30
35											35
40											40
45											45
50						12540	7	100/100	7.0		50
55											55
60	11401		85/75	26							60
65	11402		100/75	29		12541	38	110/110	22		62
70	11403		100/80	27		12542	72	120/110	14		65
75	11404		95/80	28		12543	35	110/110	20		69 70 72

SCHIST-GNEISS UNIT-Psn (KLONDIKE SCHIST)

CHLORITE SCHIST

MINOR QUARTZ CHLORITE SCHIST WITH OCCASIONAL UP TO 0.4 FT. WIDE LENSES OF WHITE QUARTZ OFTEN WITH OPEN FRACTURES SOMETIMES LINED WITH QUARTZ CRYSTALS. WEAK TO FAIR JAROSITE COATING FRACTURES

NO CORE RECOVERED

62 --- FAULT - 0.8 FT GREY MUD WITH GRIT SIZE QUARTZ FRAGMENTS

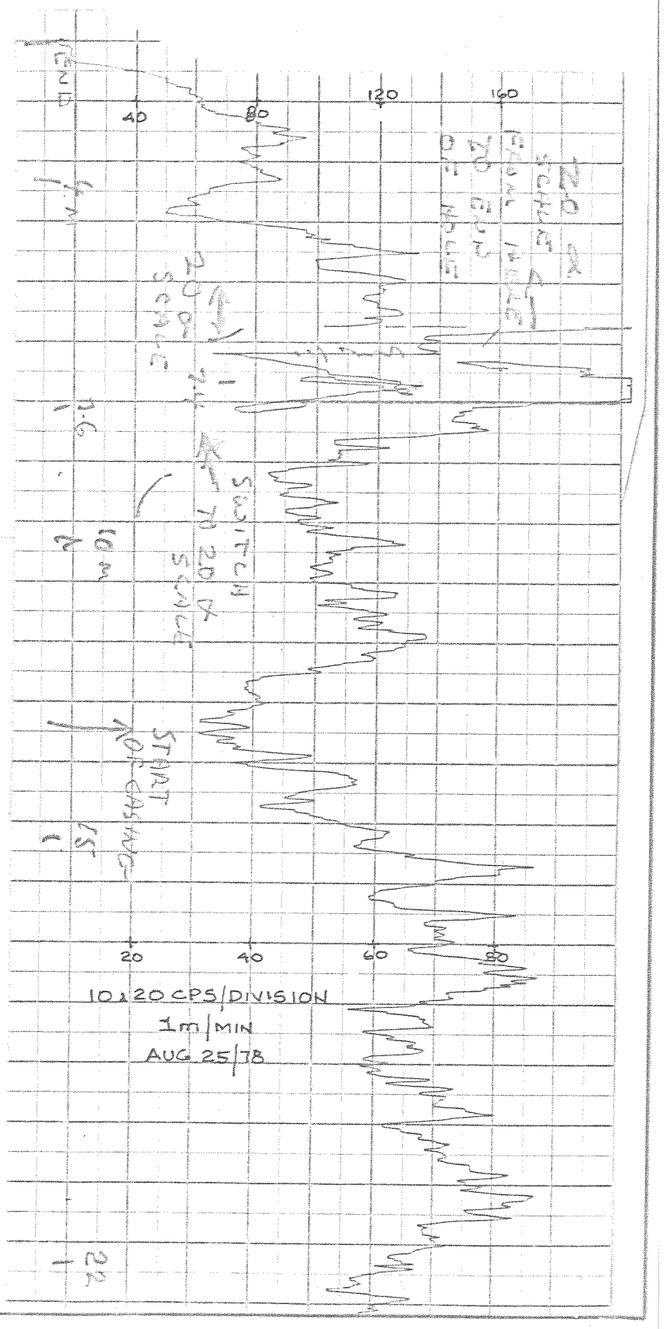
69 --- FAULT - HIGHLY BROKEN, IN PART MUD AND QUARTZ FRAGMENTS STRONG JAROSITE TOP CONTACT

70 --- MODERATE FRACTURE AND FOLIATION JAROSITE

72

* — CPS — 120/100 — COUNTS PER SECOND OVER BACKGROUND USING SCINTREX BGS ISL (43.4 cc CRYSTAL) SCINTILLOMETER

MOUNT SOPRIS
GAMMA PROBE LOG



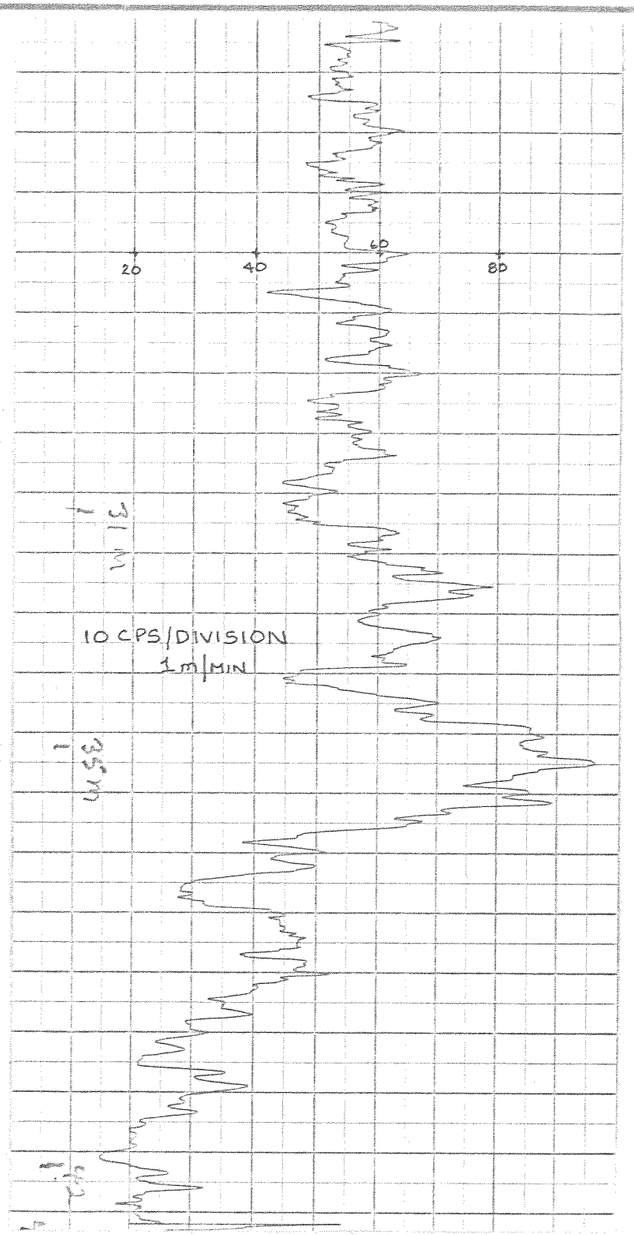
DRILL HOLE LOG UKON JOINT VENTURE SURPRIZE CLAIMS, YUKON 1978

HOLE NO. S3 PAGE 2 OF 3

ANGLE FOLIATION TO CORE AXIS

FOOTAGE	SLUDGE SAMPLE NO.	WEIGHT LBS	CPS*	ppm U	ppb Au	CORE SAMPLE NO.	% RECOV.	CPS*	ppm U	ppb Au	HOLE DEPTH ft.	DESCRIPTION
80	11405		95/75	22		12544	12	110/110	3.0		76	FAULT - HIGHLY BROKEN AND MUDDED, GRAPHITIC
											80	CHLORITE AND QUARTZ CHLORITE SCHIST PARTINGS AND NARROW BANDS OF GRAPHITE SCHIST BECOME COMMON TOWARDS BOTTOM CONTACT. NARROW QUARTZ LENSES COMMON, WEAK, LOCALLY FAIR FRACTURE JAROSITE
85	11406		95/80	17		12545	47	110/110	24		85	FAULT ZONE - MUDDED AND BROKEN SCHIST WEAK JAROSITE
	11407		95/75	19		12546	33	100/100	15		86	
90	11408		90/75	17		12547	47	120/110	25		90	FAULT ZONE - MUDDED AND BROKEN SCHIST FAIR - MODERATE FRACTURE AND DISSEMINATED JAROSITE TO BOTTOM CONTACT.
95	11409		95/80	18		12548	63	110/110	18		94 95	GRAPHITIC QUARTZITE
100	11410		100/80	16		12549	30	110/110	3.5		97 100	FAULT ZONE - MUDDED SCHIST WEAK - MODERATE JAROSITE
105	11411		95/75	21		12550	25	120/110	30		101 105	MODERATE - ABOVE AVERAGE DISSEMINATED AND FRACTURE JAROSITE. TRACES OF PYRITE IN SCHIST ALONG FOLIATION.
110	11412		90/75	14		11422	25	75/75	8.0		106	FIRST TRACE OF PYRITE
115	11413		80/75	15		11423	35	75/75	4.5		108 110	FAULT - BROKEN AND MUDDED 20°
120	11414		90/75	18		11424	11	80/80	1.0		114 115 116	QUARTZ CHLORITE SCHIST IN PART GRAPHITE SCHIST. NARROW QUARTZ LENSES. WEAK SUPERGENE ALTERATION ALONG FRACTURES. WEAK - FAIR PYRITE ALONG FOLIATION, USUALLY RIMMED BY JAROSITE. IN WEATHERED SECTIONS PYRITE COMPLETELY LEACHED WITH JAROSITE LINING CAVITY. FAULT - WEAK WATER FLOW
125	11415		95/80	29.							120	
130	11416		80/75				0				125	QUARTZ GRAPHITE SCHIST WEAK QUARTZ IN LENSES AND VEINING. WEAK - FAIR DISSEMINATED AND FOLIATION PYRITE. FAIR DISSEMINATED, FOLIATION AND FRACTURE JAROSITE
135	11417		80/75	17		11425	27	75/75	<0.5		130 134 135	35° FAULT - 0.3 FT MUD
140	11418		95/80	16		11426	4	75/75	<4.0		138 140	FAULT - 0.2 FT MUD QUARTZ GRAPHITE AND QUARTZ CHLORITE SCHIST OCCASIONAL UP TO 0.3 FT LENSES OF WHITE QUARTZ AND SOME AS FRACTURE FILLING. WEAK TO FAIR DISSEMINATED AND QUARTZ FRACTURE FILLING PYRITE. WEAK JAROSITE COATING CAVITIES AND RIMMING PYRITE
145	11419		80/80	16							145	CAVE AT 150 FT. 1.0 FT BROWN SAND 1.5 FT - BLACK GRIT - GRAPHITE & WHITE QUARTZ
150												

MOUNT SOPRIS
GAMMA PROBE LOG



NOT PROBED AS RODS FILLED WITH SAND

* — CPS — 120/100 — COUNTS PER SECOND OVER BACKGROUND USING SCINTREX BGS ISL (43.4 cc CRYSTAL) SCINTILLOMETER —

DRILL HOLE LOG UKON JOINT VENTURE SURPRIZE CLAIMS, YUKON 1978

FOOTAGE	SLUDGE SAMPLE NO.	WEIGHT LBS	CPS*	ppm U	ppb Au	CORE SAMPLE NO.	% RECOV.	CPS*	ppm U	ppb Au
	11420		35/75	20		11427	2.5FT.	80/75	3.5	
						CORED CAVE AT 150 FT.				
155						11428	12	75/75	3.5	
	11421		30/75	20						
160										
						11429	4	75/75	5.5	
						11430	7	75/75	2.0	
						11431	0.2FT.	75/75	<0.5	

HOLE DEPTH ft: 155, 160, 70, 120, 130, 150

DESCRIPTION — HOLE NO. S3 PAGE 3 OF 3

QUARTZ GRAPHITE AND QUARTZ CHLORITE SCHIST
SEE PAGE 2 FOR DESCRIPTION

? QUARTZ WITH GRAPHITE PARTINGS

QUARTZ FELDSPAR PORPHYRY
eTqfp
HIGHLY BLEACHED AND ALTERED, MYLONITIZED

END OF HOLE-ABANDONED DUE TO CAVING

CORED CAVE

WHITE QUARTZ, GRAPHITE AND QUARTZ GRAPHITE SCHIST · FAIR JAROSITE LINING QUARTZ CAVITIES AND FRACTURES IN SCHIST

WHITE QUARTZ, QUARTZ GRAPHITE SCHIST - PARTLY MUDDED. ABOVE AVERAGE DISSEMINATED PYRITE, WEAK PYRITE AND FAIR JAROSITE ALONG FRACTURES

WHITE QUARTZ, CHLORITE QUARTZ SCHIST. ABOVE AVERAGE PYRITE AND TRACES OF MALACHITE

RODS PULLED AT 150', HOLE FILLED WITH SAND - REAMED TO 150' AND DRILLED TO 160', CORE BARREL WORE OUT, PULLED ROD AND HOLE FILLED WITH SAND - UNABLE TO REAM TO BOTTOM DUE TO SAND BACKING UP INTO RODS.

MOUNT SOPRIS GAMMA PROBE LOG

FOOTAGE

NOT PROBED AS RODS FILLED WITH SAND

* — CPS — 120/100 — COUNTS PER SECOND OVER BACKGROUND USING SCINTREX BGS ISL (43.4 cc CRYSTAL) SCINTILLOMETER

DRILL HOLE LOG UKON JOINT VENTURE SURPRIZE CLAIMS, YUKON 1978

HOLE COLLARED AT 55 N, 178 E

AZ: VERT. DIP: -90°

HOLE NO. S2 PAGE 1 OF 2

FOOTAGE	SLUDGE SAMPLE NO.	WEIGHT LBS	CPS*	ppm U	ppb Au	CORE SAMPLE NO.	% RECOV.	CPS*	ppm U	ppb Au	HOLE DEPTH ft.	DESCRIPTION
											5	SCHIST-GNEISS UNIT - Psn (KLONDIKE SCHIST) CHLORITE SCHIST-FAULT?
5											10	
10											13	
15	12501		90/90	1.5		12525	50	75/75	0.5		15	BLACK MUD - PLANT ROOTS AN WHITE QUARTZ FRAGMENTS
							0				17	
	12502		90/90	<0.5		12526	80	70/70	0.5		19	DARK GREY MUD
20							0				20	
	12503		90/90	<0.5		12527	75	76/72	0.5		22	DARK GREY MUD, PORPHYRY FRAGMENTS AT TOP
							0					
25						12528	100	72/72	0.5		25	DARK GREY MUD WITH QUARTZ FRAGMENTS
	0										28	? FRESH QUARTZ FELDSPAR PORPHYR-cTqfp
30						12529	14	72/72	2.0		30	DIKE? FRESH TO WEAKLY ALTERED WITH AN OCCASIONAL BAND OF WHITE QUARTZ AND CHLORITE SCHIST. MINOR CHLORITE SCHIST FRAGMENTS
	12504		90/90	1.5							31	
35											34	
	12505		90/90	1.5		12530	14	72/72	6.0		35	FRESH TO WEAKLY ALTERED
											36	
40											38	FRESH TO WEAKLY ALTERED
	12506		90/90	3.0			0				40	? CHLORITE AND QUARTZ CHLORITE SCHIST
											42	MOST OF RECOVERED CORE IS WHITE QUARTZ. WEAK TO FAIR FRACTURE JAROSITE, WEAK RARELY FAIR INDIGENOUS DISSEMINATED JAROSITE LINING RARELY MASSIVE FILLING CAVITIES. WHITE QUARTZ HAS OPEN FRACTURES AND CAVITIES COMMON, JAROSITE LINING NOT COMMON.
45	12507		110/90	5.0		12531	22	72/72	3.5		44	MINOR BLACK MUD
											45	
50	12508		110/90	5.5			0				50	
55						12532	22	72/72	<0.5		55	
	12509		100/90	3.5		12533	45	72/72	4.0		58	BLACK MUD AN DECOMPOSED CHLORITE SCHIST
60							0				60	
	12510		100/90	5.0							65	
65												
	12511		100/85	5.0		12534	4	68/68	<0.5		70	
70												
	12512		100/85	8.0								
75												

MOUNT SOPRIS GAMMA PROBE LOG

PROBE MALFUNCTION

* — CPS — 120/100 — COUNTS PER SECOND OVER BACKGROUND USING SCINTREX BGS ISL (43.4 cc CRYSTAL) SCINTILLOMETER

DRILL HOLE LOG UKON JOINT VENTURE SURPRIZE CLAIMS, YUKON 1978

HOLE NO. S2 PAGE 2 OF 2

FOOTAGE	SLUDGE SAMPLE NO.	WEIGHT LBS	CPS*	ppm U	ppb Au
80	12513		100/90	5.5	
85	12514 (1)		120/90	14	
	(2)		110/90	11	
	12515		120/90	11	
90	12516		110/90	9.0	
95					
100					
105					
110					
115					
120					
125					
130					
135					
140					
145					
150					

CORE SAMPLE NO.	% RECOV.	CPS*	ppm U	ppb Au
12535	100	84/76	7.0	
12536	9	72/68	0.5	
12537	32	74/70	3.0	
12538	83	80/76	2.5	
11432	100	80/80	7.5	
11433	100	80/80	9.0	
11434	100	90/80	2.5	

HOLE DEPTH ft.	DESCRIPTION
79	BROWN SANDY MUD GRADING INTO FINE SAND THEN TO COARSE GRITTY SAND - SAND 40% QUARTZ & 60% SCHIST
80	PORPHYRY AND WHITE QUARTZ WITH SCHIST INCLUSIONS
82	CHLORITE AND QUARTZ CHLORITE SCHIST — SEE PAGE 1 FOR DESCRIPTION.
85	WHITE QUARTZ
	WHITE QUARTZ
89	?
90	QUARTZ FELDSPAR PORPHYRY
	PALE GREEN, BLEACHED MODERATE PERVASIVE ARGILLIC SUPERGENE ALTERATION.
97	GREENISH GRAY COLORED, MEDIUM GRAINED, SMOKY QUARTZ (10-15%) FELDSPAR (20-30%) AND CHLORITIZED BIOTITE-HORNBLENDE (<3%) PHENOCRYSTS IN A MICROCRYSTALLINE MATRIX. FRACTURES AVERAGE 20° TO CORE AXIS, DENSITY 1-4/FT. FAIR-MODERATE ARGILLIC ALTERATION. STRONG MANGANESE SPECKLING AND WEAK JAROSITE-GOETHITE ALONG FRACTURES. TRACES OF GYPSUM?
100	
105	0.5 FT. PORPHYRY BRECCIA IN A DARK GREEN MONTMORILLONITE MATRIX
110	
115	
116	END OF HOLE - ABANDONED
120	
125	
130	
135	
140	
145	

MOUNT SOPRIS GAMMA PROBE LOG

PROBE MALFUNCTION

* — CPS — 120/100 — COUNTS PER SECOND OVER BACKGROUND USING SCINTREX BGS ISL (43.4 cc CRYSTAL) SCINTILLOMETER

DRILL HOLE LOG UKON JOINT VENTURE SURPRIZE CLAIMS, YUKON 1978

HOLE COLLARED AT 56 N, 178 E

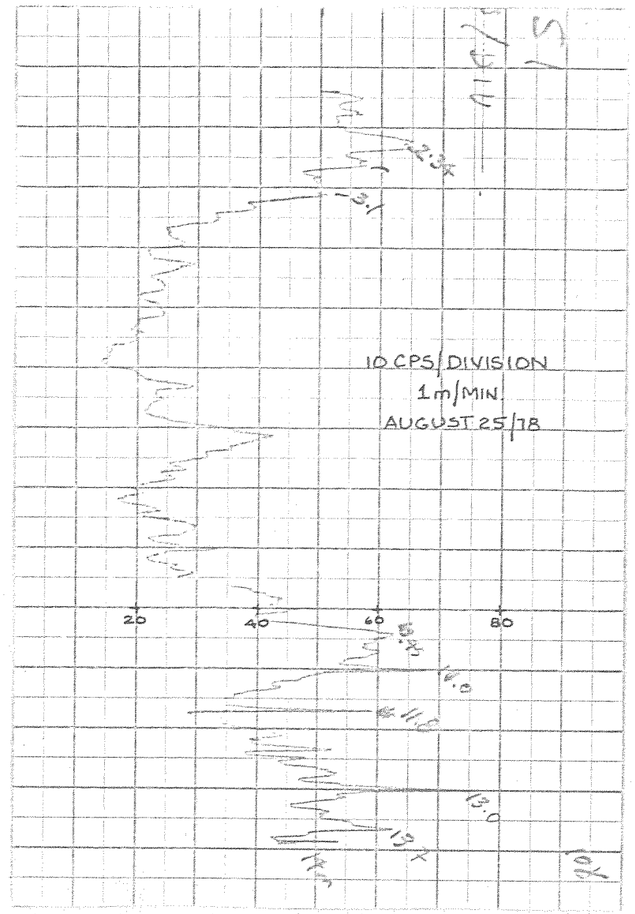
HOLE NO. S1 PAGE 1 OF 3

AZ: 352° DIP: -50° ANGLE FOLIATION TO CORE AXIS

FOOTAGE	SLUDGE SAMPLE NO.	SLUDGE WEIGHT LBS	SLUDGE CPS*	SLUDGE ppm U	SLUDGE ppb Au	CORE SAMPLE NO.	CORE % RECOV	CORE CPS*	CORE ppm U	CORE ppb Au	HOLE DEPTH ft	DESCRIPTION
5											5	SCHIST-GNEISS UNIT - PSN (KLONDIKE SCHIST)
10											10	CHLORITE SCHIST
15											15	MINOR QUARTZ CHLORITE SCHIST WITH UP TO 0.4 FT LENSES OF WHITE QUARTZ - CAVITIES COMMON OFTEN LINED WITH FINE QUARTZ CRYSTALS. SCHIST SHOWS FAIR ARGILLIC ALTERATION. JAROSITE LINING TO MASSIVE FILLING CAVITIES
20											20	
25											25	NO CORE RECOVERED
30			SLUDGES								30	
35											35	
40											40	---
45						12517	9	78/72	1.5		45	0.4 FT WHITE QUARTZ 0.5 FT. PORPHYRY - DIKE? 0.5 FT WHITE QUARTZ 1.5 FT. CHLORITE SCHIST
50			NOT			----	?	----	?		50	
55			COLLECTED			12518	15	78/70	16		55	
60											60	--- RARE WEAK PERVASIVE AND FRACTURE JAROSITE
65						12519	6	72/72	0.5		65	0.3 FT WHITE QUARTZ 0.1 FT QUARTZ CHLORITE SCHIST --- CHLORITIC QUARTZITE
70						12520	12	70/70	3.0		70	--- PERVASIVE AND FRACTURE JAROSITE WEAK; PATCH, FAIR TO MODERATE 0.3 FT WHITE QUARTZ - TRACE PYRITE 0.2 FT. CHLORITE & QUARTZ --- CHLORITE SCHIST
75												SEE PAGE 2

* — CPS — 120/100 — COUNTS PER SECOND OVER BACKGROUND USING SCINTREX BGS ISL (43.4 cc CRYSTAL) SCINTILLOMETER

MOUNT SOPRIS GAMMA PROBE LOG



PROBE MALFUNCTION

DRILL HOLE LOG UKON JOINT VENTURE SURPRIZE CLAIMS, YUKON 1978

FOOTAGE	SLUDGE SAMPLE NO.	WEIGHT LBS	CPS*	ppm U	ppb Au	CORE SAMPLE NO.	% RECOV.	CPS*	ppm U	ppb Au	HOLE DEPTH ft.	DESCRIPTION — HOLE NO. S1 PAGE 2 OF 3	FOOTAGE
80						12521	20	72/72	4.0		78	0.8 FT QUARTZ & QUARTZ CHLORITE SCHIST	80
						12522	11	72/72	0.5		80	0.2 FT WHITE QUARTZ 0.6 FT. WHITE QUARTZ-INCLUSIONS BLEACHED AND ALTERED	
85						12523	20	78/72	4.5		85	0.1 FT. WHITE QUARTZ 0.9 FT. PORPHYRY WEAK PERVASINE AND FRACTURE ALTERATION	85
90						12524	90	78/70	7.5		90 92 93	STRONG ALTERATION WEAK PERVASINE AND FRACTURE ALTERATION	90
95						12539	100	80/70	14		95	FIRST CHLORITE OBSERVED	95
100						11435	100	80/80	4.5		100	CHILLED CONTACT?	100
105											105		105
110						11436	100	85/80	4.5		110		110
115											115		115
120						11437	100	85/80	3.5		120 123	INTENSITY OF LIMONITE ON FRACTURES AND ARGILLIC ALTERATION WEAKENS	120
125											125		125
130						11438	100	80/80	4.0		130		130
135											134 135	KNIFELIKE FRACTURE WITH STRONG SPECULARITE, MODERATE PYRITE AND TRACE MALACHITE	135
140						11439	100	90/80	4.0		140 141	TRANSITION FROM PALE TO DARK GREEN CHLORITIZED MAFICS	140
145											145	DULL BROWN LIMONITE - GOETHITE - OXIDIZED SPECULARITE AND PYRITE?	145
150													

SLUDGES NOT COLLECTED

CHLORITE SCHIST

SEE PAGE 1 FOR DESCRIPTION

CONTACT LOST

QUARTZ FELDSPAR PORPHYRY

ϵT_{qfp}

LIGHT GRAY COLORED, SMOKY QUARTZ AND FELDSPAR, MEDIUM GRAINED PHENOCRYSTS IN AN APHANITIC - MICROCRYSTALLINE MATRIX. FRACTURES WITH DENSITY 1-3/FT COATED WITH MANGANESE

LIGHT GREENISH GRAY, SMOKY QUARTZ (10-15%) AND FELDSPAR (15-20%) AND CHLORITIZED BIOTITE-HORNBLENDE (3-5%) MEDIUM GRAINED PHENOCRYSTS IN A MICROCRYSTALLINE, FINE BLACK (MAFIC) SPECKLED MATRIX FRACTURES WITH DENSITY 1-2 UP TO 4/FT EXHIBIT WEAK ARGILLIC ALTERATION WITH MODERATE COATING OF MANGANESE AND GOETHITE (OXIDIZED SPECULARITE AND PYRITE). TRACES OF PYRITE AND HEMATITE ASSOCIATED WITH CHLORITIZED MAFICS.

MOUNT SOPRIS GAMMA PROBE LOG

PROBE MALFUNCTION

* — CPS — 120/100 — COUNTS PER SECOND OVER BACKGROUND USING SCINTREX BGS ISL (43.4 cc CRYSTAL) SCINTILLOMETER

DRILL HOLE LOG UKON JOINT VENTURE SURPRIZE CLAIMS, YUKON 1978

SLUDGE					CORE					HOLE DEPTH ft	DESCRIPTION HOLE NO S1 PAGE 3 OF 3	MOUNT SOPRIS GAMMA PROBE LOG
SAMPLE NO	WEIGHT LBS	CPS*	PPM U	PPM Au	SAMPLE NO	% RECOV	CPS*	PPM U	PPM Au			
					11440	100	90/80	4.5		155	QUARTZ FELDSPAR PORPHYRY eTqfp SEE PAGE 2 FOR DESCRIPTION	PROBE MALFUNCTION
					11441	100	85/80	4.0		160		
					11442	100	90/80	4.5		165		
										170		
										175		
										178	END OF HOLE	

SLUDGES NOT COLLECTED

155 160 165 170 175 178

* - CPS - 120/100 - COUNTS PER SECOND OVER BACKGROUND USING SCINTREX BGS 1SL (43.4 cc CRYSTAL) SCINTILLOMETER

DRILL HOLE LOG UKON JOINT VENTURE SURPRIZE CLAIMS, YUKON 1978

HOLE COLLARED AT 00 S, 00 E

HOLE NO. S9 PAGE 1 OF 2

AZ: VERT. DIP: -90° ANGLE FOLIATION TO CORE AXIS.

FOOTAGE	SLUDGE SAMPLE NO	WEIGHT LBS	CPS*	ppm U	ppb Au	CORE SAMPLE NO	% RECOV	CPS*	ppm U	ppb Au	HOLE DEPTH ft
5											5
10	A1976	5	220/220	7.0							10
15	A1977	4	220/210	9.0		12423	10	90/90	5.5		15
20	A1978	8	210/210	9.0		12424	8	85/85	1.0		20
25	A1979	11	230/220	7.5		12425	12	90/90	2.0		25
30	A1980	5½	230/210	8.0		12426	12	90/90	<0.5		30
35	A1981	7½	220/220	12		12427	10	90/90	5.0		35
40	A1982	2	215/215	7.0		12428	24	85/85	6.0		40
45	A1983	6	230/220	9.0		12429	20	85/85	5.0		45
50	A1984	8	220/220	15		12430	16	90/90	0.5		50
55	A1985	7	220/220	6		12431	18	90/90	0.5		55
60	A1986	5	220/220	8.5		12432	5	90/90	2.5		57
65	A1987	5½	230/220	8.5		12433	30	85/85	1.5		60
70	A1988	3½	220/220	8.5		12434	20	90/90	2.5		62
75											65
											70

DESCRIPTION

SCHIST-GNEISS UNIT-Psn
(KLONDIKE SCHIST)
CHLORITE SCHIST

85% OF RECOVERED CORE IS WHITE QUARTZ WITH OPEN FRACTURES AND CAVITIES WITH FAIR LINING OF GOETHITE. SCHIST WEAK TO TRACE JAROSITE ALONG FRACTURES.

CHLORITE SCHIST

OCCASIONAL NARROW (<5mm) QUARTZ RICH SECTIONS. FAIR - OCCASIONAL UP TO 0.7 FT LENSES OF WHITE QUARTZ. WEAK EXOTIC JAROSITE ALONG FOLIATION AND FRACTURES. RARE UNLINED CAVITIES.

WHITE QUARTZ - 0.7 FT HIGHLY FRACTURED FAIR CAVITIES WITH LIGHT LINING OF BRIGHT YELLOW JAROSITE

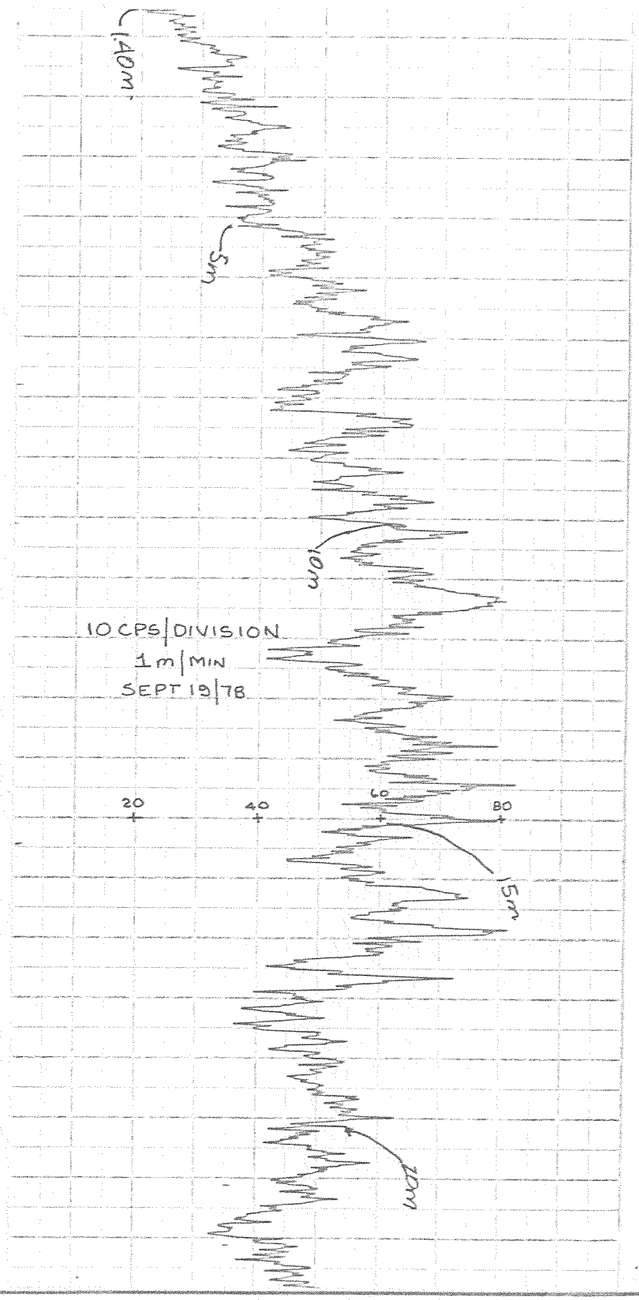
OCCASIONAL GRAPHITIC BANDS, INCREASING JAROSITE

FAIR - MODERATE EXOTIC FRACTURE JAROSITE AND WEAK - FAIR INDIGENOUS DISSEMINATED JAROSITE LINING - MASSIVE FILLING CAVITIES

FOOTAGE 5 10 15 20 25 30 32 35 40 45 50 55 57 60 62 65 70 75

55° 45° 20° 40° 0° 30° 75°

MOUNT SOPRIS GAMMA PROBE LOG



* — CPS — 120/100 — COUNTS PER SECOND OVER BACKGROUND USING SCINTREX BGS ISL (43.4 cc CRYSTAL) SCINTILLOMETER

DRILL HOLE LOG UKON JOINT VENTURE SURPRIZE CLAIMS, YUKON 1978

HOLE NO. S9 PAGE 2 OF 2

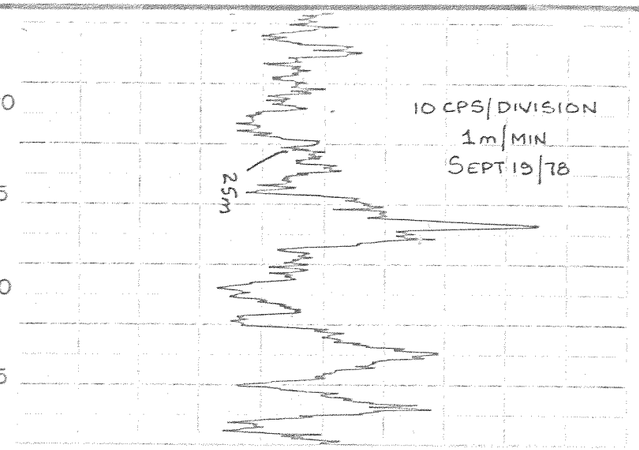
ANGLE FOLIATION TO CORE AXIS

FOOTAGE	SLUDGE SAMPLE NO.	WEIGHT LBS	CPS *	ppm U	ppb Au	CORE SAMPLE NO.	% RECOV	CPS *	ppm U	ppb Au	HOLE DEPTH ft	DESCRIPTION
											77	TRACE DISSEMINATED PYRITE
80	A1989	3	220/220	7.0		12435	20	95/90	2.0		80	
	A1990	2½	230/220	7.0							82	STRONG 0.1 FT FRACTURE JAROSITE
85	A1991	19	116/110	6.0		12436	30	90/90	4.5		85	
90	A1992	6	110/100	6.5		12437	20	90/90	1.5		90	
											92	PYRITE IN QUARTZ VEIN
95	A1993	35	110/100	6.5		12438	8	85/85	0.5		95	
100	A1994	4½	110/110	7.0		12439	19	90/90	0.5		100	
105	A1995	6	110/110	4.5							105	
											107	END OF HOLE - ABANDONED WHEN CORE BARREL STUCK IN HOLE
110											110	
115											115	
120											120	
125											125	
130											130	
135											135	
140											140	
145											145	
150												

CHLORITE SCHIST

SEE PAGE 1 FOR DESCRIPTION

MOUNT SOPRIS GAMMA PROBE LOG



* — CPS — 120/100 — COUNTS PER SECOND OVER BACKGROUND USING SCINTREX BGS ISL (43.4 cc CRYSTAL) SCINTILLOMETER

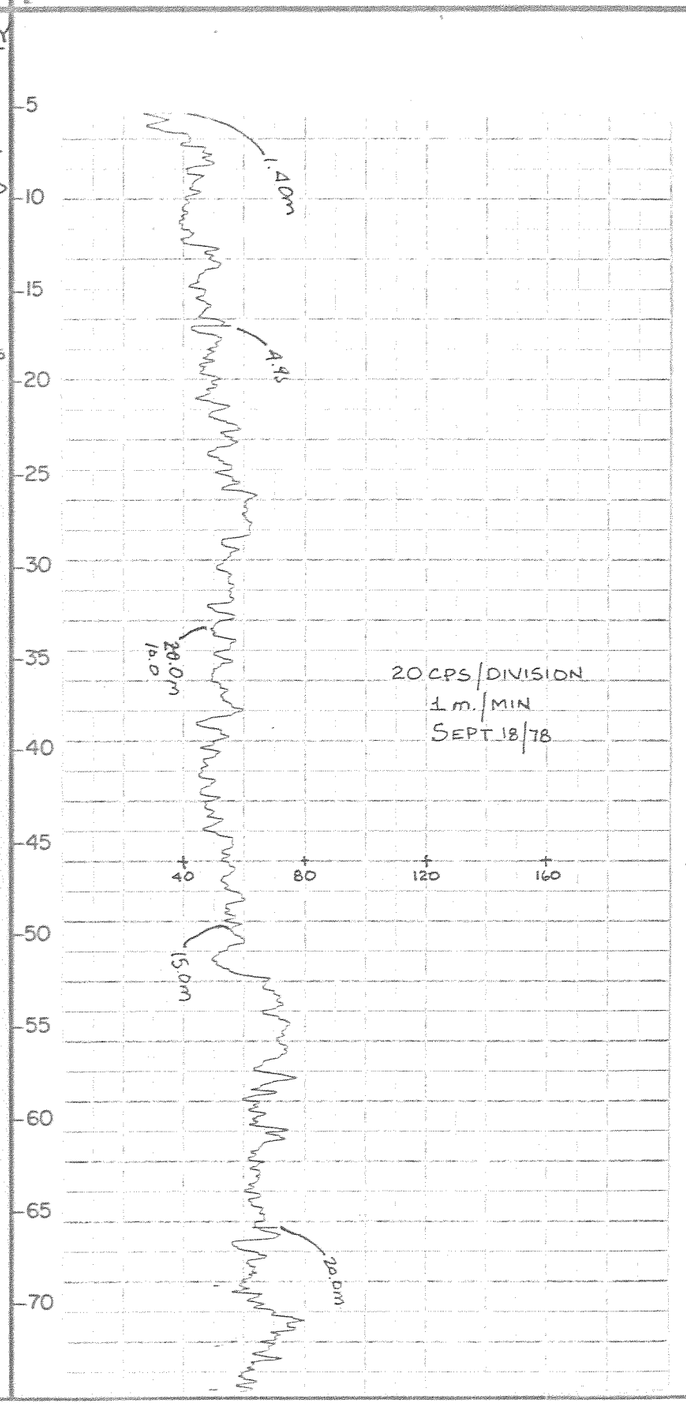
DRILL HOLE LOG UKON JOINT VENTURE SURPRIZE CLAIMS, YUKON 1978

HOLE COLLARED AT 1030 S, 50 E
HOLE NO. S8 PAGE 1 OF 2
AZ: 352° DIP: -50°

FOOTAGE	SLUDGE SAMPLE NO	SLUDGE WEIGHT LBS	SLUDGE CPS*	SLUDGE ppm U	SLUDGE ppb Au	CORE SAMPLE NO	CORE % RECOV	CORE CPS*	CORE ppm U	CORE ppb Au	HOLE DEPTH ft	DESCRIPTION
5											5	QUARTZ FELDSPAR PORPHYRY eTqfp
10											10	LIGHT COLORED, SMOKY QUARTZ (10-15%) AND FELDSPAR (15-20%) FINE-MEDIUM GRAINED PHENOCRYSTS IN AN APHANITIC-HICROCRYSTALLINE MATRIX WITH FINE BLACK SPECKLING. CHLORITIZED HORNBLENDE AND BIOTITE PHENOCRYSTS MAINLY ALTERED TO CLAY. HIGHLY FRACTURED - DENSITY 6-12/FT. FRACTURES AT LOW ANGLE TO CORE AXIS, MINOR INDIGENOUS AND FAIR EXOTIC GOETHITE ALONG FRACTURES. FAIR SUPERGENE ALTERATION ALONG FRACTURES
15	A1744	3		3.0		12414	14	100/90	2.5		15	
20	A1745	8		6.0							20	
25	A1746	3		5.0		12415	32	100/90	2.5		25	
30	NO SLUDGE RECOVERY										30	
35	A1747	6		5.0		12416	62	100/85	3.5		35	
40	NO SLUDGE RECOVERY										39	FRACTURING WEAKENS DENSITY 4/FT.
45						12417	63	100/90	4.0		45	
50											50	
55						12418	62	100/90	3.0		55	
60	A1749	3		5.0							60	
65	NO SLUDGE RECOVERY TO END OF HOLE					12419	47	100/90	3.0		65	
70											70	
75						SEE PAGE 2					71.5	CONTACT 50°-SHEARED AND CHILLED DIKE - INTENSE ARGILLIC ALTERATION

* — CPS — 120/100 — COUNTS PER SECOND OVER BACKGROUND USING SCINTREX BGS ISL (43.4 cc CRYSTAL) SCINTILLOMETER

MOUNT SOPRIS GAMMA PROBE LOG



DRILL HOLE LOG UKON JOINT VENTURE SURPRIZE CLAIMS, YUKON 1978

HOLE NO. S8 PAGE 2 OF 2

FOOTAGE	SLUDGE SAMPLE NO	SLUDGE WEIGHT LBS	SLUDGE CPS *	SLUDGE ppm U	SLUDGE ppb Au	CORE SAMPLE NO	CORE % RECOV	CORE CPS *	CORE ppm U	CORE ppb Au	HOLE DEPTH ft
80						12420	74	100/90	3.0		80
85						12421	85	95/85	3.5		85
90						12422	71	100/90	N.S.		90
95											95
100											100
105											105
110											110
115											115
120											120
125											125
130											130
135											135
140											140
145											145
150											

DESCRIPTION

DIKE - INTENSE ARGILLIC ALTERATION

---------- CONTACT 30-60° SHEARED AND CHILLED

---------- CONTACT LOST

DIKE - INTENSE ARGILLIC ALTERATION

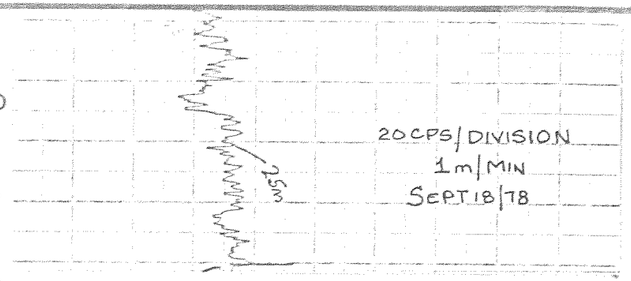
---------- CONTACT LOST

FRACTURE DENSITY INCREASES TO 6-12/FT

END OF HOLE - ABANDONED DUE TO LOST CIRCULATION

LOST CIRCULATION AT 35'. REAMED AND DROVE CASING TO 94'. HOLE ABANDONED DUE TO DIFFICULTY IN TURNING RODS AND LACK OF CIRCULATION

MOUNT SOPRIS GAMMA PROBE LOG



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DRILL HOLE LOG UKON JOINT VENTURE SURPRIZE CLAIMS, YUKON 1978

FOOTAGE	SLUDGE SAMPLE NO.	WEIGHT LBS	CPS*	ppm U	ppb Au
10	A1734	1	170/170	6.5	
15	A1735	1½	170/170	1.5	
20	A1736	6	170/170	3.0	
25	A1737	6	175/170	2.5	
30	A1738	5½	165/165	3.0	
35		0			
40	A1739	6	170/165	4.0	
45	A1740	10	170/165	14.0	
50	A1741	8	175/170	5.0	
55	A1742	4½	165/165	7.0	
60	NO SLUDGE RECOVERY TO END OF HOLE				
65					
70					
75					

CORE SAMPLE NO.	% RECOV.	CPS*	ppm U	ppb Au
12401	21	95/90	3.0	
12402	34	100/90	3.5	
12403	30	100/90	5.0	
12405	37	100/90	4.0	
12406	75	100/90	5.5	
12407	93	105/85	3.0	
12408	85	115/90	3.0	

HOLE DEPTH ft: 5, 10, 15, 20, 25, 30, 31, 35, 40, 43, 45, 50, 55, 60, 63, 65, 66, 70

HOLE COLLARED AT 1425 S, 5E

DESCRIPTION HOLE NO. S7 PAGE 1 OF 2

AZ: 050° DIP: -55°

QUARTZ FELDSPAR PORPHYRY

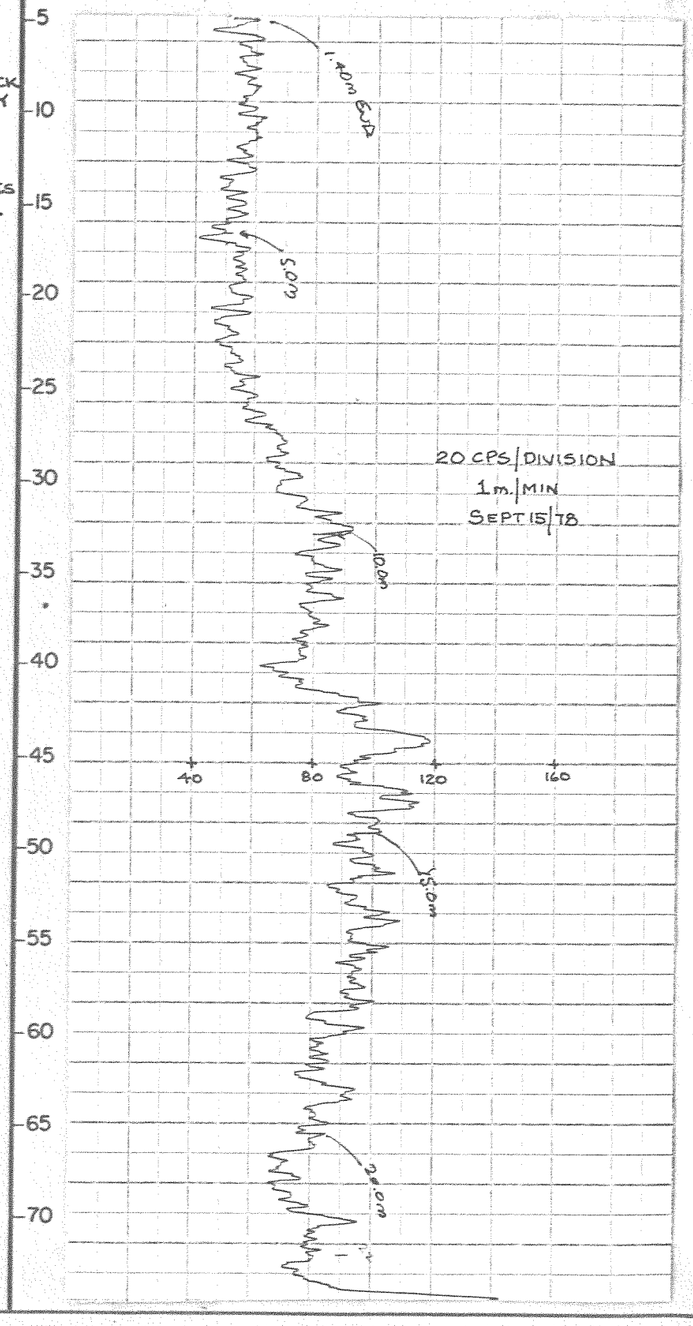
eTqfp

SMOKY QUARTZ (10-15%) AND FELDSPAR (15-20%) MEDIUM GRAINED PHENOCRYSTS IN A LIGHT COLORED, APHANITIC MATRIX OFTEN WITH FINE BLACK SPECKLING. MINOR (<3%) HIGHLY ALTERED MAFICS. FRACTURE DENSITY 1-4/FT - USUALLY WITH STRONG SUPERGENE ARGILLIC ALTERATION. GOETHITE AND MANGANESE ALONG FRACTURES VARIES FROM WEAK TO STRONG.

- CORE HIGHLY BROKEN
- STRONG ARGILLIC ALTERATION
- STRONG ARGILLIC ALTERATION
- CORE RECOVERY IMPROVES
- FRACTURE DENSITY WEAKENS TO 1/1-3 FT.
- FIRST APPEARANCE OF CHLORITIZED HORNBLENDE AND BIOTITE (<3%)

RARE-MINOR GOETHITE AND MANGANESE ON FRACTURES. SUPERGENE ARGILLIC ALTERATION ON FRACTURES NOT COMMON

MOUNT SOPRIS GAMMA PROBE LOG



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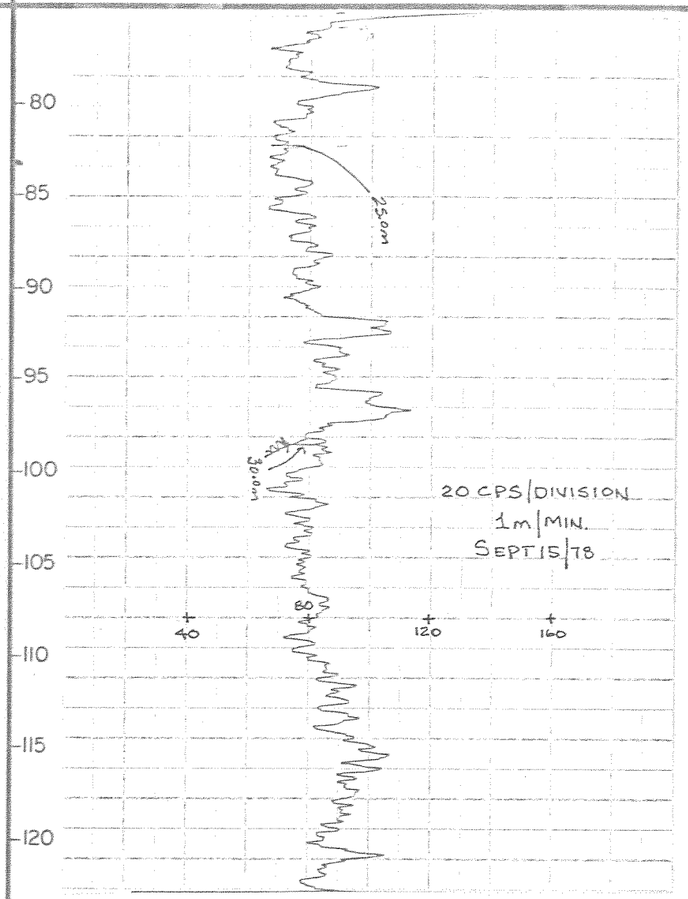
DRILL HOLE LOG UKON JOINT VENTURE SURPRIZE CLAIMS, YUKON 1978

HOLE NO. S7 PAGE 2 OF 2

FOOTAGE	SLUDGE SAMPLE NO.	SLUDGE WEIGHT LBS	SLUDGE CPS*	SLUDGE ppm U	SLUDGE ppb Au	CORE SAMPLE NO	CORE % RECOV	CORE CPS*	CORE ppm U	CORE ppb Au	HOLE DEPTH ft	DESCRIPTION
												QUARTZ FELDSPAR PORPHYRY eTqfp SEE PAGE 1 FOR DESCRIPTION.
80											80	
85						12409	100	110/30	2.0		85	
90											90	
											91	--- STRONG GOETHITE ON VERTICAL FRACTURE
											93	--- TRACES PYRITE AND SPECULARITE
95						12410	82	110/30	3.0		95	
100											100	
105						12411	95	110/85	2.5		105	
110											110	
115						12412	78	105/90	3.0		115	--- STRONG GOETHITE ON FRACTURE - MINOR PYRITE
											119	--- STRONG INDICENOUS GOETHITE ON FRACTURES.
120											120	
											121	- - - - - - - - - - - - - - - - - - - -
125						12413	68	110/85	3.0		125	CORE FRACTURING IMPROVES, DENSITY 1/1-2 FT. WITH ARGILLIC ALTERATION BETTER DEVELOPED WEAK GOETHITE ON FRACTURES
130											130	
											133	— END OF HOLE - ABANDONED DUE TO LOST CIRCULATION
135											135	
140											140	HOLE LOST CIRCULATION AT 58', STRONG VIBRATIONS IN RODS. HOLE ABANDONED WHEN BIT BURNED IN.
145											145	
150												

MOUNT SOPRIS GAMMA PROBE LOG



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