COMINCO LTD.

EXPLORATION

NTS: 115 P/16

WESTERN DISTRICT

April 27, 1979

ASSESSMENT REPORT

SOIL GEOCHEMISTRY, TRENCHING, MAPPING AND BEDROCK SAMPLING UNDERTAKEN ON

SUN GROUP CLAIMS 1-112, GLOW CLAIMS 1-33, 34, 36-58, 60-86, 88, 89 and 125 AND 92

SCHEELITE DOME AREA, MAYO, Y.T.

LATITUDE: 63°47' LONGITUDE: 136°15'

Period of Work

July 13 to September 17, 1978

April, 1979 090459

L.J. Nagy

This report has been examined by the Geological Evaluation [illegible] and is recommended to the Comm[illegible] to be accepted as representation [illegible]

$ 20,000.00

D.B. Craig 7 June/79

Resident Geologist or
~~Resident Mining Engineer~~

Considered as representation work under Section 53 (4) Yukon Quartz Mining Act.

B.R. BAXTER
Supervising Mining Recorder

for Commissioner of Yukon Territory

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SCHEELITE DOME AREA, MAYO, Y.T.

1. LIST OF CLAIMS

Claim No.	Record No.	Due Date	Years of Assessment Work Being Applied for
SUN 1	YA30128	May 8, 1978	1
SUN 2	YA30129	May 8, 1978	1
SUN 3	YA30130	May 8, 1978	1
SUN 4	YA30131	May 8, 1978	1
SUN 5	YA30132	May 8, 1978	1
SUN 6	YA30133	May 8, 1978	1
SUN 7	YA30134	May 8, 1978	1
SUN 8	YA30135	May 8, 1978	1
SUN 9	YA30136	May 8, 1978	1
SUN 10	YA30137	May 8, 1978	1
SUN 11	YA30138	May 8, 1978	1
SUN 12	YA30139	May 8, 1978	1
SUN 13	YA30140	May 8, 1978	1
SUN 14	YA30141	May 8, 1978	1
SUN 15	YA30142	May 8, 1978	1
SUN 16	YA30143	May 8, 1978	1
SUN 17	YA30144	May 8, 1978	1
SUN 18	YA30145	May 8, 1978	1
SUN 19	YA30146	May 8, 1978	1
SUN 20	YA30147	May 8, 1978	1
SUN 21	YA30148	May 8, 1978	1
SUN 22	YA30149	May 8, 1978	1
SUN 23	YA30150	May 8, 1978	1
SUN 24	YA30151	May 8, 1978	1
SUN 25	YA30152	May 8, 1978	1
SUN 26	YA30153	May 8, 1978	1
SUN 27	YA30154	May 8, 1978	1
SUN 28	YA30155	May 8, 1978	1
SUN 29	YA30156	May 8, 1978	1
SUN 30	YA30157	May 8, 1978	1
SUN 31	YA30158	May 8, 1978	1
SUN 32	YA30159	May 8, 1978	1
SUN 33	YA30160	May 8, 1978	1
SUN 34	YA30161	May 8, 1978	1
SUN 35	YA30162	May 8, 1978	1

Claim No.	Record No.	Due Date	Years of Assessment Work Being Applied for
SUN 36	YA30163	May 8, 1978	1
SUN 37	YA30164	May 8, 1978	1
SUN 38	YA30165	May 8, 1978	1
SUN 39	YA30166	May 8, 1978	1
SUN 40	YA30167	May 8, 1978	1
SUN 41	YA30168	May 8, 1978	1
SUN 42	YA30169	May 8, 1978	1
SUN 43	YA30170	May 8, 1978	1
SUN 44	YA30171	May 8, 1978	1
SUN 45	YA30172	May 8, 1978	1
SUN 46	YA30173	May 8, 1978	1
SUN 47	YA30174	May 8, 1978	1
SUN 48	YA30175	May 8, 1978	1
SUN 49	YA30176	May 8, 1978	1
SUN 50	YA30177	May 8, 1978	1
SUN 51	YA30178	May 8, 1978	1
SUN 52	YA30179	May 8, 1978	1
SUN 53	YA30180	May 8, 1978	1
SUN 54	YA30181	May 8, 1978	1
SUN 55	YA30182	May 8, 1978	1
SUN 56	YA30183	May 8, 1978	1
SUN 57	YA30184	May 8, 1978	1
SUN 58	YA30185	May 8, 1978	1
SUN 59	YA30186	May 8, 1978	1
SUN 60	YA30187	May 8, 1978	1
SUN 61	YA30188	May 8, 1978	1
SUN 62	YA30189	May 8, 1978	1
SUN 63	YA30190	May 8, 1978	1
SUN 64	YA30191	May 8, 1978	1
SUN 65	YA30192	May 8, 1978	1
SUN 66	YA30193	May 8, 1978	1
SUN 67	YA30194	May 8, 1978	1
SUN 68	YA30195	May 8, 1978	1
SUN 69	YA30196	May 8, 1978	1
SUN 70	YA30197	May 8, 1978	1
SUN 71	YA30198	May 8, 1978	1
SUN 72	YA30199	May 8, 1978	1
SUN 73	YA30200	May 8, 1978	1
SUN 74	YA30201	May 8, 1978	1
SUN 75	YA30202	May 8, 1978	1
SUN 76	YA30203	May 8, 1978	1
SUN 77	YA30204	May 8, 1978	1
SUN 78	YA30205	May 8, 1978	1
SUN 79	YA30206	May 8, 1978	1
SUN 80	YA30207	May 8, 1978	1
SUN 81	YA30208	May 8, 1978	1

Claim No.	Record No.	Due Date	Years of Assessment Work being Applied for
SUN 82	YA30209	May 8, 1978	1
SUN 83	YA30210	May 8, 1978	1
SUN 84	YA30211	May 8, 1978	1
SUN 85	YA30212	May 8, 1978	1
SUN 86	YA30213	May 8, 1978	1
SUN 87	YA30214	May 8, 1978	1
SUN 88	YA30214	May 8, 1978	1
SUN 89	YA30227	May 15, 1978	1
SUN 90	YA30228	May 15, 1978	1
SUN 91	YA30229	May 15, 1978	1
SUN 92	YA30230	May 15, 1978	1
SUN 93	YA30231	May 15, 1978	1
SUN 94	YA30232	May 15, 1978	1
SUN 95	YA30233	May 15, 1978	1
SUN 96	YA30234	May 15, 1978	1
SUN 97	YA30216	May 15, 1978	1
SUN 98	YA30217	May 15, 1978	1
SUN 99	YA30218	May 15, 1978	1
SUN 100	YA30219	May 15, 1978	1
SUN 101	YA30220	May 15, 1978	1
SUN 102	YA30221	May 15, 1978	1
SUN 103	YA30222	May 15, 1978	1
SUN 104	YA30223	May 15, 1978	1
SUN 105	YA30235	May 15, 1978	1
SUN 106	YA30236	May 15, 1978	1
SUN 107	YA30237	May 15, 1978	1
SUN 108	YA30238	May 15, 1978	1
SUN 109	YA30239	May 15, 1978	1
SUN 110	YA30240	May 15, 1978	1
SUN 111	YA30241	May 15, 1978	1
SUN 112	YA30242	May 15, 1978	1

Claim No.	Record No.	Due Date	Years of Assessment Work Being Applied for
GLOW 1	YA37699	Aug. 14, 1979	1
GLOW 2	YA37700	Aug. 14, 1979	1
GLOW 3	YA37701	Aug. 14, 1979	1
GLOW 4	YA37702	Aug. 14, 1979	1
GLOW 5	YA37703	Aug. 14, 1979	1
GLOW 6	YA37704	Aug. 14, 1979	1
GLOW 7	YA37705	Aug. 14, 1979	1
GLOW 8	YA37706	Aug. 14, 1979	1
GLOW 9	YA37707	Aug. 14, 1979	1
GLOW 10	YA37708	Aug. 14, 1979	1
GLOW 11	YA37709	Aug. 14, 1979	1
GLOW 12	YA37710	Aug. 14, 1979	1
GLOW 13	YA37711	Aug. 14, 1979	1
GLOW 14	YA37712	Aug. 14, 1979	1
GLOW 15	YA37713	Aug. 14, 1979	1
GLOW 16	YA37714	Aug. 14, 1979	1
GLOW 17	YA37715	Aug. 14, 1979	1
GLOW 18	YA37716	Aug. 14, 1979	1
GLOW 19	YA37717	Aug. 14, 1979	1
GLOW 20	YA37718	Aug. 14, 1979	1
GLOW 21	YA37719	Aug. 14, 1979	1
GLOW 22	YA37720	Aug. 14, 1979	1
GLOW 23	YA37721	Aug. 14, 1979	1
GLOW 24	YA37722	Aug. 14, 1979	1
GLOW 25	YA37723	Aug. 14, 1979	1
GLOW 26	YA37724	Aug. 14, 1979	1
GLOW 27	YA37725	Aug. 14, 1979	1
GLOW 28	YA37726	Aug. 14, 1979	1
GLOW 29	YA37727	Aug. 14, 1979	1
GLOW 30	YA37728	Aug. 14, 1979	1
GLOW 31	YA37729	Aug. 14, 1979	1
GLOW 32	YA37730	Aug. 14, 1979	1
GLOW 33	YA37731	Aug. 14, 1979	1
GLOW 34	YA37732	Aug. 14, 1979	1
GLOW 36	YA37733	Aug. 14, 1979	1
GLOW 37	YA37734	Aug. 14, 1979	1
GLOW 38	YA37735	Aug. 14, 1979	1
GLOW 39	YA37736	Aug. 14, 1979	1
GLOW 40	YA37737	Aug. 14, 1979	1
GLOW 41	YA37738	Aug. 14, 1979	1
GLOW 42	YA37739	Aug. 14, 1979	1
GLOW 43	YA37740	Aug. 14, 1979	1
GLOW 44	YA37741	Aug. 14, 1979	1
GLOW 45	YA37742	Aug. 14, 1979	1
GLOW 46	YA37743	Aug. 14, 1979	1
GLOW 47	YA37744	Aug. 14, 1979	1
GLOW 48	YA37745	Aug. 14, 1979	1
GLOW 49	YA37746	Aug. 14, 1979	1
GLOW 50	YA37747	Aug. 14, 1979	1

Claim No.	Record No.	Due Date	Years of Assessment Work Being Applied for
GLOW 51	YA37748	Aug. 14, 1979	1
GLOW 52	YA37749	Aug. 14, 1979	1
GLOW 53	YA37750	Aug. 14, 1979	1
GLOW 54	YA37751	Aug. 14, 1979	1
GLOW 55	YA37752	Aug. 14, 1979	1
GLOW 56	YA37753	Aug. 14, 1979	1
GLOW 57	YA37754	Aug. 14, 1979	1
GLOW 58	YA37755	Aug. 14, 1979	1
GLOW 60	YA37756	Aug. 14, 1979	1
GLOW 61	YA37757	Aug. 14, 1979	1
GLOW 62	YA37758	Aug. 14, 1979	1
GLOW 63	YA37759	Aug. 14, 1979	1
GLOW 64	YA37760	Aug. 14, 1979	1
GLOW 65	YA37761	Aug. 14, 1979	1
GLOW 66	YA37762	Aug. 14, 1979	1
GLOW 67	YA37763	Aug. 14, 1979	1
GLOW 68	YA37764	Aug. 14, 1979	1
GLOW 69	YA37765	Aug. 14, 1979	1
GLOW 70	YA37766	Aug. 14, 1979	1
GLOW 71	YA37767	Aug. 14, 1979	1
GLOW 72	YA37768	Aug. 14, 1979	1
GLOW 73	YA37769	Aug. 14, 1979	1
GLOW 74	YA37770	Aug. 14, 1979	1
GLOW 75	YA37771	Aug. 14, 1979	1
GLOW 76	YA37772	Aug. 14, 1979	1
GLOW 77	YA37773	Aug. 14, 1979	1
GLOW 78	YA37774	Aug. 14, 1979	1
GLOW 79	YA37775	Aug. 14, 1979	1
GLOW 80	YA37776	Aug. 14, 1979	1
GLOW 81	YA37777	Aug. 14, 1979	1
GLOW 82	YA37778	Aug. 14, 1979	1
GLOW 83	YA37779	Aug. 14, 1979	1
GLOW 84	YA37780	Aug. 14, 1979	1
GLOW 85	YA37781	Aug. 14, 1979	1
GLOW 86	YA37782	Aug. 14, 1979	1
GLOW 88	YA37783	Aug. 14, 1979	1
GLOW 89	YA37784	Aug. 14, 1979	1
GLOW 92	YA37786	Aug. 14, 1979	1
GLOW 125	YA37819	Aug. 14, 1979	1

2. PERSONNEL EMPLOYED

	Office	Field	Address
L.J. Nagy - Geologist	Oct. 1-Dec. 31 (20 days)	July 31-Sept. 16 (20 days)	700-409 Granville Vancouver, B.C. V6C 1T2
E. Olfert - Geologist		Aug. 28-Sept. 17 (20 days)	"
J.C. Caelles - Geologist		Sept. 13-16 (20 days)	"
Neil Humphries - Geologist		Aug. 28-Sept. 17 (20 days)	"
F.J. Ferguson - Technician		July 31-Aug. 27 (11 days)	"

3. INTRODUCTION

The object of this work was to determine the extent of W-Au mineralization found on the north slope of Scheelite Dome by prospecting, mapping, soil geochemistry and trenching. This report is a summary of the results of this work.

3.1 History

Scheelite and minor cassiterite was recognized in the placers of creeks draining Scheelite Dome in 1904 and the source of scheelite was located by R.M. Thompson while mapping for the G.S.C. in 1942. Claims were staked by prospectors working for the G.S.C. and were sold to T. McKay. In 1961 Dualco Syndicate restaked part of Scheelite Dome (Ursus Claims) and did hand trenching and magnetometer surveys over the skarn-tungsten occurrences on the north slope of Scheelite Dome. The claims lapsed and Dark claims were staked in July 1967 by G. Elvins. Elvins explored by trenching, mapping and geochem sampling and optioned the property to International Minerals and Chemical Corp. Ltd. in 1971. I.M.C. concentrated their exploration effort to the quartz-monzonite stock, which contains weakly developed quartz vein stockworks with traces of scheelite. Bulldozer trenching over soil geochem anomalies indicated that the grade of the stockwork was less than 0.05% WO_3 (Archer, Cathro and Associates, 1972).

Once again the claims were allowed to lapse and the Sun group of 112 claims were staked by Gordon Dickson in May, 1978. The group was optioned by Cominco in July 1978.

3.2 Location and Access

The Sun property is located 30 km northwest of Mayo, Y.T., and surrounds Scheelite Dome. The claims are in the Mayo Mining District on N.T.S. claim sheet 115 P/16.

Access is by helicopter from Mayo.

Alternatively, access by 4 wheel drive vehicle is possible along a trail which begins at the saddle between Highet and Johnson Creeks and ends on a ridge 1.5 km west of Scheelite Dome.

3.3 Topography

The claims cover gently rolling to moderately rugged terrain between 2500 feet and 5200 feet in elevation. North facing slopes are steep and heavily talus covered.

Timberline is at about 4000 feet. Below this level, slopes and stream valleys are covered with willow, white birch, alpine fir and scrub spruce. Underbrush is dense and consists of buckbrush and young willow.

Permafrost is present throughout the property and is very near surface in north facing slopes.

3.4 General Geology

The Sun group of claims are underlain by a succession of Precambrian quartzitic and limy rocks which dip moderately to the southeast. At least three small granitic stocks of Cretaceous age intrude this sequence and outcrop on the flanks of Scheelite Dome.

Strata of this area are believed correlatable with Grit division (Units 3 and 4) of the Scougale Creek, Mayo Lake and McQuesten Lake areas, mapped by Green (1971). Rocks of the Grit division are believed to be of Precambrian age and are separated from underlying Jurassic(?) and Lower Cretaceous (?) strata by a major thrust fault which has been traced for a distance of over 150 miles in the central and west-central Yukon (Templeman-Kluit, 1970: Green, 1971).

All rock units observed on the property have been regionally metamorphosed within the lower subfacies of the greenschist facies.

Hornblende and biotite are localized in contact metamorphic aureoles around the main quartz-monzonite plug and to a lesser extent around the smaller plugs.

All rocks are locally intensely deformed with well developed foliation. Little evidence of bedding is preserved.

Clear, yellow flakes of muscovite have developed along foliation planes in the quartzite and is interpreted to be a result of regional metamorphism.

Low angle, south dipping thrust faults were noted in several areas on the property and are probably responsible for the repetition of narrow limestone beds mapped just north of the main W-Au showing.

TABLE OF FORMATIONS

Era	Period or epoch	Name or map-unit	Lithology
Cenozoic	Recent		Stream deposits, talus, rock fragments transported by solifluction
	Pleistocene		Till, gravel, sand, and silt
	Unconformity		
	Tertiary (?)	11	Quartz porphyry, granite porphyry
Not in contact			
Mesozoic	Cretaceous	10	Granodiorite, quartz monzonite
	Intrusive contact		
	Cretaceous	9	Diorite, gabbro and altered equivalents
	Intrusive contact		
	Lower Cretaceous (?)	8; Keno Hill Quartzite	Massive quartzite, minor phyllite and graphitic phyllite
	Conformable contact		
	Jurassic	7; Lower Schists	Graphitic phyllite, phyllitic quartzite, phyllite
Unconformity			
Paleozoic	Ordovician to Silurian	6	Massive dolomite
		Unconformity	
		5	Phyllite, slate, chert, and quartzite
Probable unconformity			
Precambrian and later (?)		3 and 4; Grit	3; gritty quartzite, varicoloured phyllite and argillite, graphitic phyllite 4; limestone
		Not in contact, relationship unknown	
		2	Thin-bedded, phyllitic quartzite, phyllite
		Conformable contact (?)	
		1; Upper Schists	Phyllitic and thin-bedded quartzites, phyllite, graphitic phyllite

(Green, 1971, p.10)

3.4.1. Detailed Geology (Plate Sun 78-8-3)

From the limited ridge traversing done to date, it appears that the homoclinal succession of rocks on the Sun group are intensely folded and repetition of strata due to thrust faulting has occurred. All units strike northeasterly and dips vary between 11° to 40° southeast.

The bulk of the property appears to be underlain by gritty quartzites (Unit 6) interbedded with quartz-chlorite muscovite schists (Unit 5), minor cherts (Unit 3) and one or two limestone bed(s) (Unit 1).

The quartzites are massive and occur in beds 0.5 m to 20 m thick and are separated by dark-green chorite-muscovite schist. Weathered surfaces are light brown and fresh surfaces are white to pale brown in colour. Thin partings of mica occur along foliation (bedding?) planes. Individual quartz grains when visible, range from .5 to 3 mm in diameter and comprise up to 90% of the rock. Occasionally, weathered pyrite cubes, 1 to 2 mm in diameter are also present.

Dark green biotite-chlorite-quartz schist (Unit 5) is prominent on the ridge west of Scheelite Dome and is comprised of dark green chlorite 40%, biotite 20%, muscovite 10% and quartz 30%. Weathered surfaces are a rusty brown colour (weathered pyrite?).

Hornfels (Unit 4) is a contact metamorphic rock confined to an aureole surrounding the main quartz monzonite intrusive underlying Scheelite Dome. The rock is essentially gritty quartzite with 10% to 30% biotite, hornblende and andalusite.

Scattered outcrops of massive grey limestone (Unit 1) occur throughout the property and commonly contain 2 to 3 cm thick lenses of clean quartzite. Outcrops of limestone on a spur 1 km northwest of Scheelite Dome are heavily skarnitized and garnet grains up to 1 cm in diameter are common.

Chert (Unit 3) consists mainly of milky coloured silica with thin laminations of carbonate material. The rock is finely banded and in hand specimen has the appearance of a laminated, silicified, acid tuff. Its distribution appears to be limited to two areas, the north cirque of Scheelite Dome and to outcrops in a creek 1 km northeast of Scheelite Dome. Within this chert unit, there is a 2.5 m thick bed of amphibolitic rock (Unit 2) containing scheelite mineralization. The amphibolite is dark green in colour and is comprised of 50 to 60% quartz, 5 to 10% hornblende, 5 to 20% pyrrhotite, 1 to 3% scheelite, traces of chalcopyrite and 1 to 3% wollastonite.

The second occurrence of the chert unit outcrops as a rusty coloured zone at the headwaters of a small creek draining the east flank of Scheelite Dome.

Intruding the above rocks are three small stocks or plugs of quartz monzonite rock. The main stock is an oval shaped body 2.5 km long and 1.2 km across. Its' composition varies but an average mode consists of quartz 30%, K-feldspar 20%, plagioclase 30%, biotite 8%, hornblende 1% in colour, medium to coarse grained with K-feldspar phenocrysts up to 2 cm long. Along its western margin there are areas with poorly developed quartz vein stockworks carrying minor amounts of scheelite and wolframite.

Two small plugs of quartz-monzonite outcrop on the east flanks of Scheelite Dome.

4. EXPLORATION WORK COMPLETED

4.1 Grid Survey (8.9 km of line)

A 1400 m baseline bearing 050°, was surveyed with a chain and compass. A total of 15 cross lines with stations at 25 m intervals completed the grid covering the main W-Au occurrences.

In addition, a 1:10,000 scale base map was prepared from a1:50,000 scale Government Topographic map.

Airphoto coverage of the area is not available.

4.2 Soil Geochemistry

4.2.1. Sample Collection

A total of 418 soil geochemical samples were collected at 25 m intervals along lines spaced at 100 m. An additional 67 soil samples were collected along three pace and compass reconnaissance lines located near the south-west edge of the claim group. The samples were obtained by digging through 10 to 20 cm of moss and taking a sample of the organic free B horizon. The soil horizon at this elevation is generally poorly developed and samples often contained variable amounts of rock fragments.

4.2.2. Sample Preparation and Analytical Methods

The samples were dried and ground to minus 80 mesh. Cu analysis was performed by atomic absorption following a hot nitric acid digestion. Sn analysis was performed by X.R.F. and W analysis was done colorimetrically by dithiol after bi-sulphate fusion.

All analyses were done at the Cominco Exploration Research Laboratory in Vancouver under the supervision of Mr. Frank Kiss, Senior Chemist.

The results are listed on computer print out sheets, copies of which are attached to this report. The results of the soil survey are plotted on plates Sun 78-6, 78-7.

4.2.3. Soil Geochemical Survey Results

Threshold values were established by computerized statistical analyses but the number of samples involved may be too small to give statistically valid results.

The cumulative probability plots appeared to yield the most meaningful statistics.

Anomalous thresholds taken from these graphs are as follows: Cu 50 ppm, W 40 ppm.

a) Cu results (Plate Sun 78-7)

A small cluster of values above 50 ppm Cu occur at approximately 5100N on cross lines 10,100E, 10,150E and 10,200E. This anomaly is about 75 m wide and 150 m long and occurs just below the outcrop of W-Au bearing amphibolite at 5100N, 10,100E. Values range from 50 ppm to 86 ppm and consequently is not a very strong anomaly. This may be due to the lack of good quality soil samples since this area is essentially a steep, talus covered, north facing cirque with very poor soil development.

b) W Results (Plate Sun 78-6)

A similar sized tungsten anomaly, 75 m x 150 m, occurs at approximately 5075N and on lines 10,100E, 10,150E and 10,200E and overlies the mineralized amphibolite bed. By studying the areal distribution plot of the tungsten values, a threshold value of 20 ppm W appears more meaningful but again the geochemical response is very weak. This may also be attributed to the lack of good quality soil samples due to extensive talus cover.

In general, the soil geochemistry survey over the grid did not produce strong Cu and W anomalies over the projected favourable geology. However, considering the nature of the terrain, and the quality of the sample material, the results do indicate the presence of tungsten mineralization in bedrock and further exploration is warranted.

In addition to the grid geochemical survey, 67 soil samples were collected along two pace and compass traverses at the southwest edges of the claim group. The traverses were designed to test for mineralization along the southern contact of the quartz monzonite intrusive and also to test across the strike of the favourable geology which hosts the W bearing amphibolite. The results of the traverses are shown on Plate Sun 78-3. The area surrounding anomalous values will be checked by prospecting and mapping during the 1979 field season.

4.3 Trenching (Plates Sun 78-4 and Sun 78-5)

The trenching was done with a D-9 Cat and ripper owned by Mr. Joe Raab, Whitehorse. A total of 5 trenches were attempted but only 3 managed to expose bedrock in geologically critical areas. Permafrost and deep talus cover prevented completion of the remaining trenches. Approximately 2660 cubic yards of material was removed from the trenches.

The purpose of the trenching was to expose bedrock between two mineralized outcrops and to determine the strike continuity of the W-Au bearing amphibolite bed(s).

The trenches were mapped at 1:500 scale. The geology and the analyses of 5 m continuous bedrock chip sampling are shown on Plate Sun 78-5.

4.3.1. Results

Two outcrops of a mineralized amphibolite bed(s) contain 5 to 20% disseminated pyrrhotite, 1 to 3% scheelite and traces of chalcopyrite in a gangue consisting of quartz, minor carbonate and traces of wollastonite. The bed is estimated to be 2.5 m thick, strikes 050^{0} and dips 32^{0}SE. It is overlain by creamy coloured limy cherts which vary in thickness from 10 m to 25 m (see Plate Sun 78-5).

Trenching exposed the mineralized horizon only in Trench "C", which is only 10 m from the original upper mineralized outcrop. A 2.5 m chip sample across the mineralized amphibolite in Trench "C" assayed 0.69% WO_3.

The laminated chert-carbonate-wollastonite beds which occur above and below the mineralized amphibolite in Trench "C", were also exposed in Trenches "A" and "B". However, the amphibolite horizon was not encountered in either trench and its' absence may be due to the following:

1. Several strong, low angle thrust faults occur within and above the chert unit and it is possible that the mineralized amphibolite bed is displaced by faulting.

2. It is also possible that the mineralization is only a small pod locallized within a limy section of cherts and we are seeing the western edge of this pod in Trench "C".

4.4 Bedrock Geochemistry - Trenches A,B and C

4.4.1. Sampling and Analytical Procedure

A total of 35 chip samples, weighing 2 to 3 kg, were collected at 5 m intervals from unmineralized bedrock above and below the amphibolite exposed in Trenches A, B and C. The samples were forwarded to the Cominco Exploration Research Laboratory in Vancouver and were analysed for Cu, Pb, Zn, Ag, Co, Ni, Cr, Au, Mo, As, Hg and W.

All samples were dried and crushed to -80 mesh. Cu, Pb, Zn, Ag, Co, Ni and Cr analyses were performed by atomic absorption following a hot aqua regia digestion. Au analyses were performed by atomic absorption following aqua regia digestion and solvent extraction. Mo and As analyses were performed by pyrosulphate fusion and colorimetry. W analyses were done colorimetrically by dithiol after bisulphate fusion.

4.4.2. Results (Plates Sun 78-9)

The purpose of this sampling was to study the distribution of other elements in addition to W, in the various lithologies above and below the mineralized horizon and to detect pathfinder elements which could assist in locating occurrences of this type elsewhere on the property.

In summary the data suggests that the concentrations of Cu, Zn, Ag, Co, Ni and Mo are low and of a level typical for granodiorite (or equivalent) rocks.

5. CONCLUSIONS AND RECOMMENDATIONS

1. The mineralization at Scheelite Dome consists of disseminated pyrrhotite-scheelite-chalcopyrite in skarns which have formed in massive limestones.

Because of the lack of outcrop and the complex geology it is recommended that three short diamond drill holes be drilled to test for continuity of mineralization between the known occurrences and the quartz monzonite intrusion which outcrops 350 m to the south.

2. Late in the 1978 field season, gossanous outcrops of chert and amphibolite were located in a creek 1 km northeast of the summit of Scheelite Dome.

It is recommended that this area be prospected, mapped and soil geochem surveyed during the 1979 field season.

Report by:
L.J. NAGY
Geologist

Endorsed by:
D.L.COOKE
Senior Geologist

Approved for Release by:
G.HARDEN, Manager
Western District

LJN/pcl
27 April 1979

6. REFERENCES

Green, L.H. (1971), Geology of Mayo Lake, Scougale Creek and McQuesten Lake map areas, Yukon Territory, G.S.C. Memoir 357, p.10.

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Distribution:

Mining Recorder (2)
Western District
Sun Option File
Administration

E.R.LAB JOB NO. 1905 REPORTING DATE 21 SEPT

P&LD

SOIL SERIES		CU	SN	W
S78 24012	10000/5125	33	85	6
S78 24013	10000/5150	30	<10	8
S78 24014	10000/5175	28	<10	10
S78 24015	10000/5200	23	65	8
S78 24016	10000/5225	22	10	45
S78 24017	10000/5250	14	<10	10
S78 24018	10000/5275	13	<10	4
S78 24019	10000/5300	10	<10	2 ✓
S78 24020	10050/5300	12	<10	5
S78 24021	10050/5275	14	<10	8
S78 24022	10050/5250	16	<10	6
S78 24023	10050/5225	16	<10	12
S78 24024	10050/5200	24	<10	15
S78 24025	10050/5175	44	10	8
S78 24026	10050/5150	28	<10	25
S78 24027	10050/5125	24	<10	20
S78 24028	10050/5100	32	<10	8
S78 24029	10050/5075	26	<10	8
S78 24030	10050/5050	11	<10	2
S78 24031	10050/5025	15	<10	4
S78 24032	10050/5000	12	<10	4
S78 24033	10050/4975	27	<10	10
S78 24034	10050/4950	25	<10	4
S78 24035	10050/4925	48	<10	8
S78 24036	10050/4900	10	<10	6
S78 24037	10050/4875	19	20	17
S78 24038	10050/4850	26	<10	8
S78 24039	10050/4825	21	<10	8
S78 24040	10050/4800	27	<10	6
S78 24041	10050/4775	30	10	30
S78 24042	10100/4800	22	<10	6
S78 24043	10100/4825	21	<10	8
S78 24044	10100/4850	15	<10	6
S78 24045	10100/4875	17	<10	10
S78 24046	10100/4900	24	<10	17

35

Prep-35

1 25
2 25
4 35

Lab Charges 418 sample @ 4.35 ea = $1818.30

		Cu	Sn	W
S78 24047	10100/4925	16	<10	6
S78 24048	10100/4950	19	<10	7
S78 24049	10100/4975	15	<10	4
S78 24050	10100/5000	18	<10	5
S78 24051	10100/5025	55	<10	10
S78 24052	10100/5050	69	<10	35
S78 24053	10100/5075	59	<10	50
S78 24054	10100/5100	64	<10	25
S78 24055	10100/5125	35	<10	15
S78 24056	10100/5150	33	<10	30
S78 24057	10100/5175	24	<10	8
S78 24058	10100/5200	24	<10	6
S78 24059	10100/5225	24	30	15
S78 24060	10100/5250	8	<10	4
S78 24061	10100/5275	8	<10	2
S78 24062	10100/5300	7	<10	4 ✓
S78 24063	11000/5025	12	<10	40
S78 24064	11000/5050	9	<10	8
S78 24065	11000/5075	6	<10	15
S78 24066	11000/5100	<2	<10	12
S78 24067	11000/5125	8	<10	17
S78 24068	11000/5150	8	10	6
S78 24069	11000/5175	8	<10	40
S78 24070	11000/5200	30	<10	35
S78 24071	10900/5200	13	<10	6
S78 24072	10900/5175	16	<10	8
S78 24073	10900/5150	17	<10	8
S78 24074	10900/5125	12	<10	8
S78 24075	10900/5100	15	10	10
S78 24076	10900/5075	12	<10	15
S78 24077	10900/5050	11	<10	12
S78 24078	5025	13	<10	15
S78 24079	10800/5025	<2	<10	6
S78 24080	5050	10	<10	8
S78 24081	5075	34	35	17
S78 24082	5100	7	30	8
S78 24083	5125	16	<10	8
S78 24084	5150	9	<10	4
S78 24085	5175	7	<10	4
S78 24086	5200	12	<10	15
S78 24087	10700/5200	10	10	15

		CU	SN	W
S78 24088	5175	11	<10	8
S78 24089	5150	9	<10	6
S78 24090	5125	11	<10	4
S78 24091		6	<10	<2
S78 24092	5075	4	<10	<2
S78 24093	5050	8	<10	6
S78 24094	5025	17	<10	8
S78 24095	10600/5025	6	<10	6
S78 24096	5050	7	<10	4
S78 24097	5075	10	<10	4
S78 24098	5100	11	<10	4
S78 24099	5125	16	<10	6
S78 24100	5150	13	10	8
S78 24101	5175	16	<10	6
S78 24102	5200	7	<10	4
S78 24103	10500/5200	8	10	2
S78 24104	5175	6	<10	<2
S78 24105	5150	13	<10	5
S78 24106	5125	14	<10	15
S78 24107	5100	9	35	4
S78 24108	5075	9	15	<2
S78 24109	5050	9	<10	<2
S78 24110	5025	8	<10	<2
S78 24111	10400/5025	28	40	8
S78 24112	5050	12	20	6
S78 24113	5075	16	<10	20
S78 24114	5100	17	<10	12
S78 24115	5125	14	10	20
S78 24116	5150	12	<10	4
S78 24117	5175	5	<10	4
S78 24118	5200	11	<10	10
S78 24119	10300/5200	11	<10	4
S78 24120	5175	13	<10	6
S78 24121	5150	15	<10	6
S78 24122	5125	20	<10	30
S78 24123	5100	35	10	8
S78 24124	5075	30	<10	35
S78 24125	5050	27	<10	6
S78 24126	5025	24	<10	50
S78 24127	10200/5025	55	<10	6
S78 24128	5050	22	10	4

		CU	SN	W
S78 24129	5075	9	<10	4
S78 24130	5100	13	<10	8
S78 24131	5125	50	<10	25
S78 24132	5150	13	10	4
S78 24133	5175	28	10	6
S78 24134	5200	15	15	5
S78 24135	5225	23	10	6
S78 24136	5250	14	<10	7
S78 24137	5275	21	<10	4
S78 24138	5300	19	<10	6
S78 24139	10150/5300	9	<10	4
S78 24140	5275	11	<10	4
S78 24141	5250	18	<10	6
S78 24142	5225	24	<10	6
S78 24143	5200	13	<10	4
S78 24144	5175	12	15	2
S78 24145	5150	21	<10	7
S78 24146	5125	35	<10	4
S78 24147	9500/5200	10	10	6
S78 24148	5175	11	<10	8
S78 24149	5150	7	10	20
S78 24150	5125	8	<10	8
S78 24151	5100	9	<10	35
S78 24152	5075	13	<10	12
S78 24153	5050	12	<10	8
S78 24154	5025	11	10	40
S78 24155	5000	9	10	6
S78 24156	4975	8	10	10
S78 24157	4950	7	<10	6
S78 24158	4925	10	<10	6
S78 24159	4900	11	<10	6
S78 24160	4875	12	<10	6
S78 24161	9500/4850	9	<10	6
S78 24162	4825	10	<10	30
S78 24163	4800	12	10	8
S78 24164	9600/4800	7	<10	4
S78 24165	4825	9	<10	4
S78 24166	4850	14	<10	6
S78 24167	4875	13	<10	6
S78 24168	4900	16	<10	4
S78 24169	4925	12	<10	4

			CU	SN	W
S78	24170	4950	11	<10	4
S78	24171	4975	13	10	6
S78	24172	5000	10	<10	6
S78	24173	5025	15	<10	4
S78	24174	5050	10	10	4
S78	24175	5075	14		4
S78	24176	5100	13	10	20
S78	24177	5125	9	<10	<2
S78	24178	5150	12	10	5
S78	24179	5175	15	30	25
S78	24180	5200	12	20	10
S78	24181	9700/5200	15	<10	4
S78	24182	5175	19	<10	6
S78	24183	5150	20	<10	6
S78	24184	5125	15	<10	2
S78	24185	5100	17	<10	6
S78	24186	5075	20	<10	<2
S78	24187	5050	16	<10	4
S78	24188	5025	15	10	6
S78	24189	5000	14	<10	4
S78	24190	4975	13	<10	6
S78	24191	9700/4950	15	10	8
S78	24192	4925	14	<10	5
S78	24193	4900	16	10	6
S78	24194	4875	14	<10	4
S78	24195	4850	16	<10	6
S78	24196	4825	12	<10	4
S78	24197	4800	13	25	10
S78	24198	9800/4800	12	<10	2
S78	24199	4825	13	<10	4
S78	24200	4850	15	<10	4
S78	24201	4875	14	<10	4
S78	24202	4900	12	<10	6
S78	24203	4925	17	40	4
S78	24204	4950	18	10	8
S78	24205	4975	18	10	6
S78	24206	5000	16	<10	15
S78	24207	5025	18	<10	10
S78	24208	5050	19	<10	8
S78	24209	5075	27	20	8
S78	24210	5100	17	<10	6

		CU	SN	W
S78 24211	5125	9	<10	2
S78 24212	5150	11	<10	4
S78 24213	5175	14	15	4
8 24214	5200	22	<10	6
S78 24215	9850/5300	19	10	2
S78 24216	5275	19	10	15
S78 24217	5250	20		15
S78 24218	5225	24	<10	4
S78 24219	5200	26	<10	12
S78 24220	5175	14	<10	6
S78 24221	9850/5150	22	<10	4
S78 24222	5125	19	<10	6
S78 24223	5100	23	<10	10
S78 24224	5075	24	<10	12
S78 24225	5050	20	<10	12
S78 24226	5025	11	<10	4
S78 24227	5000	23	<10	6
S78 24228	4975	29	<10	8
S78 24229	4950	29	<10	10
S78 24230	4925	22	<10	5
S78 24231	4900	16	<10	6
S78 24232	4875	15	<10	4
S78 24233	4850	10	<10	4
S78 24234	4825	10	<10	4
S78 24235	4800	11	<10	6
S78 24236	4775	13	<10	6
S78 24237	4750	24	<10	4
S78 24238	4725	9	<10	4
S78 24239	4700	13	<10	6
S78 24240	9900/4700	12	<10	6
S78 24241	4725	17	<10	8
S78 24242	4750	15	<10	6
S78 24243	4775	11	<10	6
S78 24244	4800	46	<10	4
S78 24245	4850	16	<10	4
S78 24246	4850	25	<10	6
S78 24247	4875	49	<10	4
S78 24248	4900	15	<10	4
S78 24249	4925	26	<10	10
S78 24250	4950	27	<10	6
S78 24251	9900/4975	21	<10	6

		CU	SN	W
S78 24252	5000	37	20	17
S78 24253	5025	32	<10	12
S78 24254	5050	33	<10	10
S78 24255	5075	26	<10	8
S78 24256	5100	34	<10	<2
S78 24257	5125	23	<10	6
S78 24258	5150	17	<10	4
S78 24259	5175	17	<10	12
S78 24260	5200	9	<10	3
S78 24261	5225	15	<10	2
S78 24262	5225	14	<10	2
S78 24263	5275	41	<10	4
S78 24264	5300	18	<10	5
S78 24265	9950/5300	21	<10	8
S78 24266	5275	17	<10	7
S78 24267	5250	15	<10	8
S78 24268	5225	26	<10	8
S78 24269	5200	28	<10	15
S78 24270	5175	29	<10	12
S78 24271	5150	40	<10	15
S78 24272	5125	35	<10	15
S78 24273	5100	32	<10	8
S78 24274	5075	20	<10	10
S78 24275	5050	35	<10	6
S78 24276	5025	31	<10	6
S78 24277	5000	31	<10	8
S78 24278	4975	25	<10	4
S78 24279	4950	13	<10	4
S78 24280	4925	14	<10	2
S78 24281	9950/4900	16	<10	4
S78 24282	4875	11	<10	4
S78 24283	4850	21	<10	6
S78 24284	4825	17	<10	15
S78 24285	4800	18	<10	6
S78 24286	4775	24	<10	8
S78 24287	4750	26	<10	8
S78 24288	4725	14	<10	4
S78 24289	4700	17	<10	4
S78 24290	10000/4700	61	10	6
S78 24291	4725	21	<10	4
S78 24292	4750	22	<10	5

		Cu	Sn	W
S78 24293	4775	19	<10	6
S78 24294	4800	33	<10	8
S78 24295	4825	12	<10	8
S78 24296	4850	11	<10	10
S78 24297	4875	14	<10	15
S78 24298	4900	22	<10	8
S78 24299	4950	18	<10	<2
S78 24300	4975	23	<10	2
S78 24301	4975	24	<10	4
S78 24302	5000	14	<10	4
S78 24303	5025	78	<10	12
S78 24304	5050	26	<10	15
S78 24305	5075	34	<10	10
S78 24306	I0000/5100	40	<10	25
S78 24307	FS-200	13	<10	2
S78 24308	201	13	<10	4
S78 24309	202	50	<10	4
S78 24310	203	33	<10	7
S78 24311	204	8	<10	4
S78 24312	205	19	<10	60
S78 24313	206	15	<10	15
S78 24314	207	6	<10	6
S78 24315	208	9	<10	6
S78 24316	209	5	<10	25
S78 24317	210	13	<10	20
S78 24318	211	10	<10	10
S78 24319	212	11	<10	6
S78 24320	213	7	<10	6
S78 24321	214	8	<10	6
S78 24322	215	6	<10	7
S78 24323	216	5	<10	4
S78 24324	217	9	<10	4
S78 24325	218	8	<10	4
S78 24326	219	15	<10	17
S78 24327	220	8	<10	2
S78 24328	221	14	<10	6
S78 24329	222	11	<10	8
S78 24330	223	8	<10	6
S78 24331	224	13	<10	6
S78 24332	225	17	<10	50
S78 24333	226	20	<10	8

Schulte R

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			CU	SN	W
S78	24375	268	40	<10	4
S78	24376	269	28	20	4
S78	24377	270	41	<10	4
S78	24378	271	31	<10	5
S78	24379	272	37	<10	4
S78	24380	273	37	<10	4
S78	24381	274	40	<10	5
S78	24382	275	37	<10	5
S78	24383	276	20	<10	6
S78	24384	277	31	15	4
S78	24385	278	15	<10	<2
S78	24386	279	18	<10	<2
S78	24387	280	26	<10	<2
S78	24388	281	18	<10	<2
S78	24389	282	27	<10	<2
S78	24390	283	15	<10	<2
S78	24391	284	36	<10	<2
S78	24392	285	26	<10	<2
S78	24393	286	32	<10	<2
S78	24394	287	36	<10	<2
S78	24395	288	10	<10	<2
S78	24396	289	13	<10	<2
S78	24397	290	10	<10	<2
S78	24398	291	14	<10	<2
S78	24399	292	16	<10	<2
S78	24400	293	18	<10	<2
S78	24401	294	14	<10	<2
S78	24402	295	44	<10	<2
S78	24403	150			
S78	24404	152			
S78	24405	152			
S78	24406	155			
S78	24407	156			
S78	24408	157			
S78	24409	158			
S78	24410	159			
S78	24411	160			
S78	24412	161			
S78	24413	11+00E 5+00ON	16	<10	<2
S78	24414	4+975	14	<10	<2
S78	24415	4+950	12	<10	<2

		CU	SN	W
S78 24416	4+925	15	<10	<2
S78 24417	4+900	22	<10	<2
S78 24418	4+875	18	<10	6
S78 24419	4+850	21	<10	<2
S78 24420	4-825	31	<10	<2
S78 24421	4+800	33	<10	<2
S78 24422	10+900E/4+825	14	<10	6
S78 24423	4+850	14	<10	4
S78 24424	4+875	13	<10	6
S78 24425	4+900	9	<10	6
S78 24426	4+925	11	<10	8
S78 24427	4+950	14	<10	10
S78 24428	4+975	7	<10	8
S78 24429	5+000	14	<10	8
S78 24430	10+800E/5+000	18	<10	8
S78 24431	4+175	10	<10	10
S78 24432	4+950	23	<10	10
S78 24433	4+925	17	<10	12
S78 24434	4+900	11	<10	7
S78 24435	4+875	10	<10	8
S78 24436	4+850	17	<10	15
S78 24437	10+700E/4+900	68	<10	30
S78 24438	4+925	12	<10	4
S78 24439	4-950	5	<10	<2
S78 24440	4+975	11	<10	<2
S78 24441	5+000	17	<10	4
S78 24442	10+600E/5+000	14	<10	4
S78 24443	4+975	12	<10	<2
S78 24444	4+950	11	<10	<2
S78 24445	4+925	20	<10	2
S78 24446	4+900	13	<10	4
S78 24447	10+500E/4+700	17	<10	4
S78 24448	4+725	32	<10	10
S78 24449	4+750	18	<10	8
S78 24450	4+775	18	<10	6
S78 24451	4+850	15	<10	8
S78 24452	4+900	12	<10	4
S78 24453	4+925	14	<10	6
S78 24454	4+950	14	<10	4
S78 24455	5+000	12	<10	5
S78 24456	10+400E/5+000	13	<10	4

		CU	SN	W
S78 24457	4+975	35	<10	8
S78 24458	4+925	27	<10	8
S78 24459	4+900	24	<10	10
S78 24460	4+875	8	<10	<2
S78 24461	10+300E/4+850	45	<10	15
S78 24462	4+900	17	<10	10
S78 24463	4+925	9	<10	4
S78 24464	4+950	18	<10	4
S78 24465	466	20	<10	4
S78 24466	5+000	23	<10	6
S78 24467	10+200E/5+000	34	<10	10
S78 24468	4+975	24	<10	6
S78 24469	4+950	25	<10	50
S78 24470	4+925	9	<10	2
S78 24471	4+900	25	<10	10
S78 24472	4+875	23	<10	6
S78 24473	4+850	61	<10	150
S78 24474	4+825	15	<10	8
S78 24475	10+150E/4+875	17	<10	8
S78 24476	4+900	27	<10	8
S78 24477	5+025	19	<10	6
S78 24478	5+050	24	<10	10
S78 24479	5+075	86	<10	900
S78 24480	10+150E/5+100N	56	<10	30

(24)

24

Job Information

ALL ANALYSES in PPM except Au,Hg(PPB) AND Ba.S.Fe.FeO(%)

METHODS
20% HNO3 /AA
Pyrosulfate fusion/Colorimetric
XRF- Borax fusion

ELEMENT(S)
Cu.Pb.Zn.Ag.Cd.Co.Ni.Mn.Fe
MO.W.AS

D	Mo	Yr	- Elements filed
07	09	78	- CU.
11	09	78	- W.
20	09	78	- SN.

Job 19055

		CU	W
S78 28403	FS 457	[redacted]	[redacted]
S78 28404	FS 458		
S78 28405	FS 459		
S78 28406	FS 460		
S78 28407	FS 461	2	<2
S78 28408	FS 462	19	<2
S78 28409	FS 463	21	5
S78 28410	FS 464	13	7
S78 28411	FS 465	14	3
S78 28412	FS 466	11	6
S78 28413	FS 467	12	7
S78 28414	FS 468	24	8
S78 28415	FS 469	14	8
S78 28416	FS 470	15	7
S78 28417	FS 471	14	8
S78 28418	FS 472	9	6
S78 28419	FS 473	17	4
S78 28420	FS 474	13	6
S78 28421	FS 475	11	4
S78 28422	FS 476	35	15
S78 28423	FS 477	13	4
S78 28424	FS 478	11	8
S78 28425	FS 479	12	8
S78 28426	FS 480	14	17
S78 28427	FS 481	13	8
S78 28428	FS 482	19	4
S78 28429	FS 483	15	6
S78 28430	FS 484	8	6
S78 28431	FS 485	20	12
S78 28432	FS 486	16	4
S78 28433	FS 487	20	15
S78 28434	FS 488	15	4
S78 28435	FS 489	10	6
S78 28436	FS 490	9	2
S78 28437	FS 491	16	<2
S78 28438	FS 492	13	4
S78 28439	FS 493	6	4
S78 28440	FS 494	7	<2
S78 28441	FS 495	8	5
S78 28442	FS 496	16	4
S78 28443	FS 497	17	5

Lab charges – 67 samples @ 7.35 ea – 492.45

		CU	W
S78 28444	FS 498	21	30
S78 28445	FS 499	22	8
S78 28446	8-9-01-E-L		
S78 28447	6-9-01-E-T		
S78 28448	6-9-02-E-T		
S78 28449	6-9-03-E-T		
S78 28450	6-9-04-E-T		
S78 28451			
S78 28452			
S78 28453	E-500 T		

Job Information

ALL ANALYSES in PPM except Au,Hg(PPB) AND Ba,S,Fe,FeO(%)

METHODS
20% HNO3 /AA

ELEMENT(S)
Cu,Pb,Zn,Ag,Cd,Co,Ni,Mn,Fe,Sb,B

D	Mo	Yr - Elements filed
27	09	78 - W,
28	09	78 - CU,

Job 1995S

		CU	W
S78 29848	FS-696		
S78 29849	FS-697		
S78 29850	FS-698		
S78 29851	FS-699		
S78 29852	FS-700		
S78 29853	FS-701		
S78 29854	FS-702		
S78 29855	FS-703		
S78 29856	FS-704		
S78 29857	FS-705		
S78 29858	FS-706		
S78 29859	FS-708		
S78 29860	FS-709		
S78 29861	FS-710		
S78 29862	FS-711		
S78 29863	FS-712		
S78 29864	FS-713		
S78 29865	FS-714		
S78 29866	FS-715		
S78 29867	FS-716		
S78 29868	FS-717		
S78 29869	FS-718		
S78 29870	FS-719		
S78 29871	FS-720		
S78 29872	FS-721		
S78 29873	FS-722		
S78 29874	FS-723		
S78 29875	FS-724		
S78 29876	FS-725		
S78 29877	FS-726	15	8
S78 29878	FS-727	12	8
S78 29879	FS-728	8	6
S78 29880	FS-729	16	15
S78 29881	FS-730	8	3
S78 29882	FS-731	8	10
S78 29883	FS-732	10	8
S78 29884	FS-733	9	6
S78 29885	FS-734	12	6
S78 29886	FS-735	17	8
S78 29887	FS-736	17	10
S78 29888	FS-737	18	7

		GW =	W =
S78 29889	FS-738	11	6
S7 29890	FS-739	10	7
S78 29891	FS-740	24	6
S78 29892	FS-741	17	8
S78 29893	FS-742	21	6
S78 29894	FS-743	7	3
S78 29895	FS-744	6	6
S78 29896	FS-745		
S78 29897	FS-746		
S78 29898	FS-747		
S78 29899	FS-748		
S78 29900	FS-749		
S78 29901	FS-750		
S78 29902	FS-751		
S78 29903	FS-752		
S78 29904	FS-753		
S78 29905	FS-754		
S78 29906	FS-755		
S78 29907	FS-756		
S78 29908	FS-757		
S78 29909	FS-758		
S78 29910	FS-759		
S78 29911	FS-760		
S78 29912	FS-761		
S78 29913	FS-762		
S78 29914	FS-763		
S78 29915	FS-764		
S78 29916	FS-765		
S78 29917	FS-766		
S78 29918	FS-767		
S78 29919	FS-768		
S78 29920	FS-769		
S78 29921	FS-770		
S78 29922	FS-771		
S78 29923	FS-772		
S78 29924	FS-774		
S78 29925	FS-513 T		
S78 29926	FS-514 T		
S78 29927	FS-515 T		
S78 29928	FS-516 T		
S78 29929	FS-517 T		

[redacted]

		SN
S78 29866	FS-715	[redacted]
S78 29867	FS-716	
S78 29868	FS-717	
S78 29869	FS-718	
S78 29870	FS-719	
S78 29871	FS-720	
S78 29872	FS-721	
S78 29873	FS-722	
S78 29874	FS-723	
S78 29875	FS-724	
S78 29876	FS-725	
S78 29877	FS-726	<10
S78 29878	FS-727	<10
S78 29879	FS-728	<10
S78 29880	FS-729	<10
S78 29881	FS-730	<10
S78 29882	FS-731	<10
S78 29883	FS-732	<10
S78 29884	FS-733	<10
S78 29885	FS-734	<10
S78 29886	FS-735	<10
S78 29887	FS-736	<10
S78 29888	FS-737	<10
S78 29889	FS-738	<10
S78 29890	FS-739	<10
S78 29891	FS-740	<10
S78 29892	FS-741	<10
S78 29893	FS-742	<10
S78 29894	FS-743	<10
S78 29895	FS-744	<10
S78 29896	FS-745	[redacted]
S78 29897	FS-746	
S78 29898	FS-747	
S78 29899	FS-748	
S78 29900	FS-749	
S78 29901	FS-750	
S78 29902	FS-751	
S78 29903	FS-752	
S78 29904	FS-753	
S78 29905	FS-754	
S78 29906	FS-755	

Stabbed
RP

CORD TIN STUDY L NAGY

E.R.LAB JOB NO. 2049 REPORTING DATE 16 OCT 197

ROCK SERIES

		CU	PB	ZN	AG	AU	W
[redacted]							
R78 08265	N-2-10-07	647	990	29	34.5	10690	40000

Sample of high grade float found below trenches in Scheelite Dome

Lab Charges - $8.80

Job Information

ALL ANALYSES in PPM except Au.Hg(PPB) AND Ba.S.Fe.FeO(%)

METHODS
Aqua Regia/DIBK/AA

ELEMENT(S)
Au

D Mo Yr - Elements filed — Job 2049R

12 10 78 - W.
13 10 78 - CU. PB. ZN. AG.
13 10 78 - AU.

SUN OPTION BULLDOZED TRENCHES.

1 DEC 1978

ROCKS

SEC	LAB	FIELD	CU 1.25	PB 60	ZN 60	AG 60	CO 60	NI 60	AU 3.25	MO 1.25	AS 2.25	HG 3.25
1	7808272	TRENCH A/L	13	-4	20	-0.4	2	15	290	2	80	8
2	7808273	TRENCH A/L	24	-4	51	-0.4	7	24	10	2	15	10
3	7808274	TRENCH A/L	24	-4	80	-0.4	14	34	-10	-2	110	-5
4	7808275	TRENCH A/L	19	-4	60	-0.4	10	31	-10	2	8	9
5	7808276	TRENCH A/L	33	4	83	-0.4	13	34	10	2	150	12
6	7808277	TRENCH A/L	26	-4	94	-0.4	16	46	-10	-2	6	-5
7	7808278	TRENCH A/L	19	-4	46	-0.4	7	21	-10	-2	120	20
8	7808279	TRENCH A/L	31	-4	52	-0.4	5	17	20	2	15	10
9	7808280	TRENCH A/L	25	-4	68	-0.4	9	22	-10	2	8	6
10	7808281	TRENCH A/L	20	-4	63	-0.4	10	26	-10	2	-2	-5
11	7808282	TRENCH A/L	30	-4	91	-0.4	19	51	-10	-2	-2	-5
12	7808283	TRENCH A/L	20	-4	112	-0.4	22	52	-10	2	-2	-5
13	7808284	TRENCH A/L	46	-4	120	-0.4	19	39	-10	2	8	6
14	7808285	TRENCH A/L	32	-4	70	0.8	12	31	-10	2	40	6
15	7808286	TRENCH B/L	33	-4	78	-0.4	11	34	-10	2	6	-5
16	7808287	TRENCH B/L	36	-4	75	-0.4	11	30	-10	2	4	-5
17	7808288	TRENCH B/L	60	4	57	-0.4	10	24	10	-2	25	8
18	7808289	TRENCH B/L	42	6	40	-0.4	9	16	-10	8	6	59
19	7808290	TRENCH B/L	35	-4	64	-0.4	11	29	-10	2	100	9
20	7808291	TRENCH B/L	39	-4	88	-0.4	16	31	-10	-2	10	5
21	7808292	TRENCH B/L	38	-4	80	-0.4	18	29	-10	-2	6	-5
22	7808293	TRENCH B/L	28	5	74	-.4	12	25	12	2	100	17
23	7808294	TRENCH B/L	26	6	92	-0.4	17	32	-10	2	45	27
24	7808295	TRENCH B/L	33	4	68	-0.4	13	23	-10	2	125	30
25	7808296	TRENCH B/L	16	4	43	-0.4	10	21	-10	-2	80	5
26	7808297	TRENCH B/L	25	-4	66	-0.4	12	30	40	-2	125	-5
27	7808298	TRENCH B/L	49	-4	66	-0.4	20	36	350	-2	25	8
28	7808299	TRENCH C/L	44	-4	82	-0.4	14	36	-10	-2	12	-5
29	7808300	TRENCH C/L	29	-4	94	-0.4	16	34	-10	-2	8	7
30	7808301	TRENCH C/L	44	4	94	-0.4	15	37	-10	-2	6	-5
31	7808302	TRENCH C/L	33	4	66	-0.4	10	24	-10	-2	25	-5
32	7808303	TRENCH C/L	5	-4	19	-0.4	4	8	96	2	25	12
33	7808304	TRENCH C/L	199	-4	128	-0.4	14	9	1050	9	6	-5
34	7808305	TRENCH C/L	28	-4	56	-0.4	10	21	-10	-2	15	-5
35	7808306	TRENCH C/L	90	4	84	-0.4	10	24	10	-2	4	18

NOTE - SIGN MEANS LESS THAN, VALUE USED IS HALF DETECTION LIMIT

Lab charges 18.85 per sample - 659.75

ROCKS

2.76

SEC	LAB	FIELD	WO3
1	7808272	TRENCH A/L	-20
2	7808273	TRENCH A/L	-20
3	7808274	TRENCH A/L	-20
4	7808275	TRENCH A/L	-20
5	7808276	TRENCH A/L	-20
6	7808277	TRENCH A/L	-20
7	7808278	TRENCH A/L	-20
8	7808279	TRENCH A/L	140
9	7808280	TRENCH A/L	-20
10	7808281	TRENCH A/L	-20
11	7808282	TRENCH A/L	20
12	7808283	TRENCH A/L	-20
13	7808284	TRENCH A/L	-20
14	7808285	TRENCH A/L	-20
15	7808286	TRENCH B/L	-20
16	7808287	TRENCH B/L	-20
17	7808288	TRENCH B/L	-20
18	7808289	TRENCH B/L	-20
19	7808290	TRENCH B/L	-20
20	7808291	TRENCH B/L	-20
21	7808292	TRENCH B/L	-20
22	7808293	TRENCH B/L	-20
23	7808294	TRENCH B/L	-20
24	7808295	TRENCH B/L	-20
25	7808296	TRENCH B/L	-20
26	7808297	TRENCH B/L	-20
27	7808298	TRENCH B/L	-20
28	7808299	TRENCH C/L	20
29	7808300	TRENCH C/L	-20
30	7808301	TRENCH C/L	-20
31	7808302	TRENCH C/L	-20
32	7808303	TRENCH C/L	-20
33	7808304	TRENCH C/L	6150
34	7808305	TRENCH C/L	-20
35	7808306	TRENCH C/L	-20

NOTE - SIGN MEANS LESS THAN, VALUE USED IS HALF DETECTION LIMIT

ROCKS

.60

SEC	LAB	FIELD	CR
1	7808272	TRENCH A/L 1	320
2	7808273	TRENCH A/L 2	192
3	7808274	TRENCH A/L 3	234
4	7808275	TRENCH A/L 4	206
5	7808276	TRENCH A/L 5	184
6	7808277	TRENCH A/L 6	161
7	7808278	TRENCH A/L 7	120
8	7808279	TRENCH A/L 8	114
9	7808280	TRENCH A/L 9	211
10	7808281	TRENCH A/L 10	182
11	7808282	TRENCH A/L 11	179
12	7808283	TRENCH A/L 12	156
13	7808284	TRENCH A/L 13	254
14	7808285	TRENCH A/L 14	278
15	7808286	TRENCH B/L 15	205
16	7808287	TRENCH B/L 16	206
17	7808288	TRENCH B/L 17	159
18	7808289	TRENCH B/L 18	101
19	7808290	TRENCH B/L 19	197
20	7808291	TRENCH B/L 20	186
21	7808292	TRENCH B/L 21	190
22	7808293	TRENCH B/L 22	258
23	7808294	TRENCH B/L 23	202
24	7808295	TRENCH B/L 24	168
25	7808296	TRENCH B/L 25	218
26	7808297	TRENCH B/L 26	196
27	7808298	TRENCH B/L 27	244
28	7808299	TRENCH C/L 28	246
29	7808300	TRENCH C/L 29	160
30	7808301	TRENCH C/L 30	190
31	7808302	TRENCH C/L 31	240
32	7808303	TRENCH C/L 32	133
33	7808304	TRENCH C/L 33	102
34	7808305	TRENCH C/L 34	153
35	7808306	TRENCH C/L 35	168

NOTE - SIGN MEANS LESS THAN, VALUE USED IS HALF DETECTION LIMIT

Drawn by: DMC		Traced by:	
Revised by	Date	Revised by	Date

LOCATION MAP
SUN GROUP

Scale: 1" = 85 Mi | Date: APR 1979 | Plate: SUN 78-1

JOHNSON CREEK

JULES

LADY

GLOW GROUP

SUN GROUP

GLOW GROUP

MORRISON CREEK

GLOW
89-226
136 CLAIMS

SUN 1-112
112 CLAIMS

GLOW
1-88
85 CLAIMS

MAG

PEARL

JEAN

HIGHET CREEK

136°20'

136°15'

63° 45'

136°10'

CLAIM SHEET 115 P/16
CLAIM SHEET 115 P/ 9

SCALE
0 1/2 1
MILES

SUN OPTION

NTS 115 P 16

Cominco

Drawn by: DMC		Traced by:	
Revised by	Date	Revised by	Date

CLAIM MAP

Scale: 1" = 1/2 Mi | Date: APR 1979 | Plate: SUN 78-2

210-0620

LEGEND

MESOZOIC

- 8 — GRANODIORITE — *Grey green, medium grained, generally equigranular.*
- 7 — QUARTZ-FELDSPAR PORPHYRY — *Dark grey matrix, quartz and K-feldspars phenocrysts up to 1 cm long, traces of disseminated pyrite.*

PRECAMBRIAN

PROTEROZOIC YUKON GROUP

- 6 — QUARTZITE — *Buff colored, micaceous, gritty quartzite occassionally carrys minor pyrite.*
- 5 — SCHIST — *Dark green, biotite-chlorite-quartz schist.*
- 4/6/5 — HORNFELS — *Hornblende - biotite enriched contact rocks.*
- 3 — CHERT — *White, thin to medium laminated limy chert and wollastonite, Tr. pyrrhotite.*
- 2 — AMPHIBOLITE — *Dark grey, massive hornblende - quartz - wollastonite rock with disseminated and laminated pyrrhotite(3-10%), scheelite(1-3%), gold(?)*
- LIMESTONE — *Grey, impure, thin to medium laminated, silicious limestone, traces of pyrrhotite, locally garnitiferous.*

SYMBOLS

- BEDDING - *Horizontal, inclined, vertical*
- SCHISTOSITY, FOLIATION - *Inclined, vertical*
- GEOLOGICAL BOUNDARY - *Known, approximate*
- OUTCROP BOUNDARY
- BULLDOZER TRENCHES
- BULLDOZED TRACK OR ROAD
- CLAIM BOUNDARY - *Sun option, 100% cominco*
- GEOCHEM SAMPLE SITE LOCATION -
  - F-101 — *Heavy mineral concentrate*
  - FS-101 — *Stream silt*
  - FS-101 — *Soil sample*

ANOMALOUS SOIL GEOCHEM
- 10-19 ppm W
- >20 ppm W

SEE PLATE OF THIS AREA

0.52 % WO_3, 3500 ppb Au / 2.5 m

0.33 % WO_3, 550 ppb Au / 2.5 m

W-Au SHOWING

TALUS COVERED SLOPE

INTRUSIVE FLOAT

SCHEELITE IN QUARTZ VEINS

1971 I.M.C. TRENCHES

Sb, Pb Vein

SCALE
0 100 300 500 700
METRES

SUN OPTION

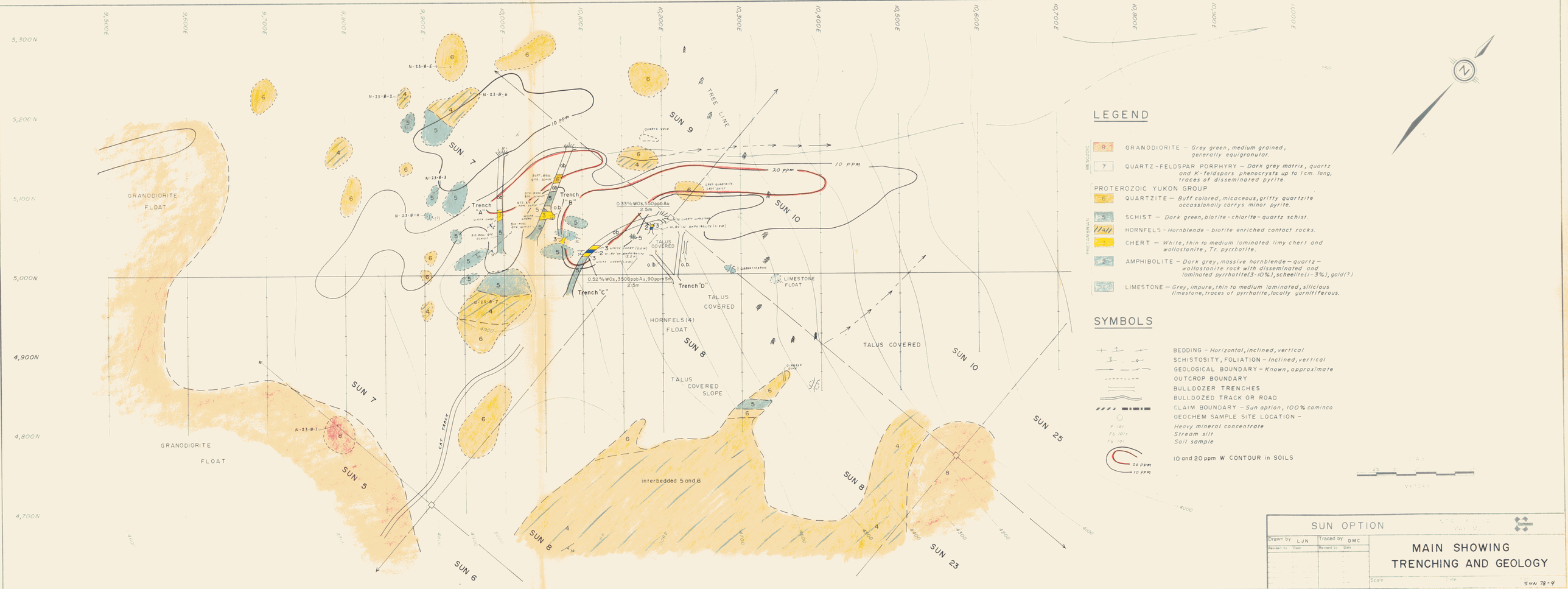
NTS 115 P/16
MAYO M.D.

Drawn by: L.J.N. | Traced by: D.M.C.

Revised by	Date	Revised by	Date

GEOLOGY-FACT MAP
WEST SHEET

Scale: 1:10,000 | Date: OCT 1978 | Plate: SUN-78-3



LEGEND

MESOZOIC

- 8 — GRANODIORITE — *Grey green, medium grained, generally equigranular.*
- 7 — QUARTZ-FELDSPAR PORPHYRY — *Dark grey matrix, quartz and K-feldspars phenocrysts up to 1cm long, traces of disseminated pyrite.*

PROTEROZOIC YUKON GROUP

PRECAMBRIAN

- 6 — QUARTZITE — *Buff colored, micaceous, gritty quartzite occassionally carrys minor pyrite.*
- 5 — SCHIST — *Dark green, biotite-chlorite-quartz schist.*
- 4 — HORNFELS — *Hornblende-biotite enriched contact rocks.*
- 3 — CHERT — *White, thin to medium laminated limy chert and wollastonite, Tr. pyrrhotite.*
- 2 — AMPHIBOLITE — *Dark grey, massive hornblende-quartz-wollastonite rock with disseminated and laminated pyrrhotite(3-10%), scheelite(1-3%), gold(?)*
- LIMESTONE — *Grey, impure, thin to medium laminated, silicious limestone, traces of pyrrhotite, locally garnitiferous.*

SYMBOLS

- BEDDING — *Horizontal, inclined, vertical*
- SCHISTOSITY, FOLIATION — *Inclined, vertical*
- GEOLOGICAL BOUNDARY — *Known, approximate*
- OUTCROP BOUNDARY
- BULLDOZER TRENCHES
- BULLDOZED TRACK OR ROAD
- CLAIM BOUNDARY — *Sun option, 100% cominco*
- GEOCHEM SAMPLE SITE LOCATION —
  - *Heavy mineral concentrate*
  - *Stream silt*
  - *Soil sample*
- 10 and 20 ppm W CONTOUR in SOILS

SUN OPTION

Drawn by LJN | Traced by DMC | Revised by Date | Revised by Date

MAIN SHOWING TRENCHING AND GEOLOGY

Scale | Date | SUN 78-4

SUN OPTION

MAYO: M.D.
NTS-115-P-15

Drawn by:

Traced by: DMG

Revised by	Date	Revised by	Date

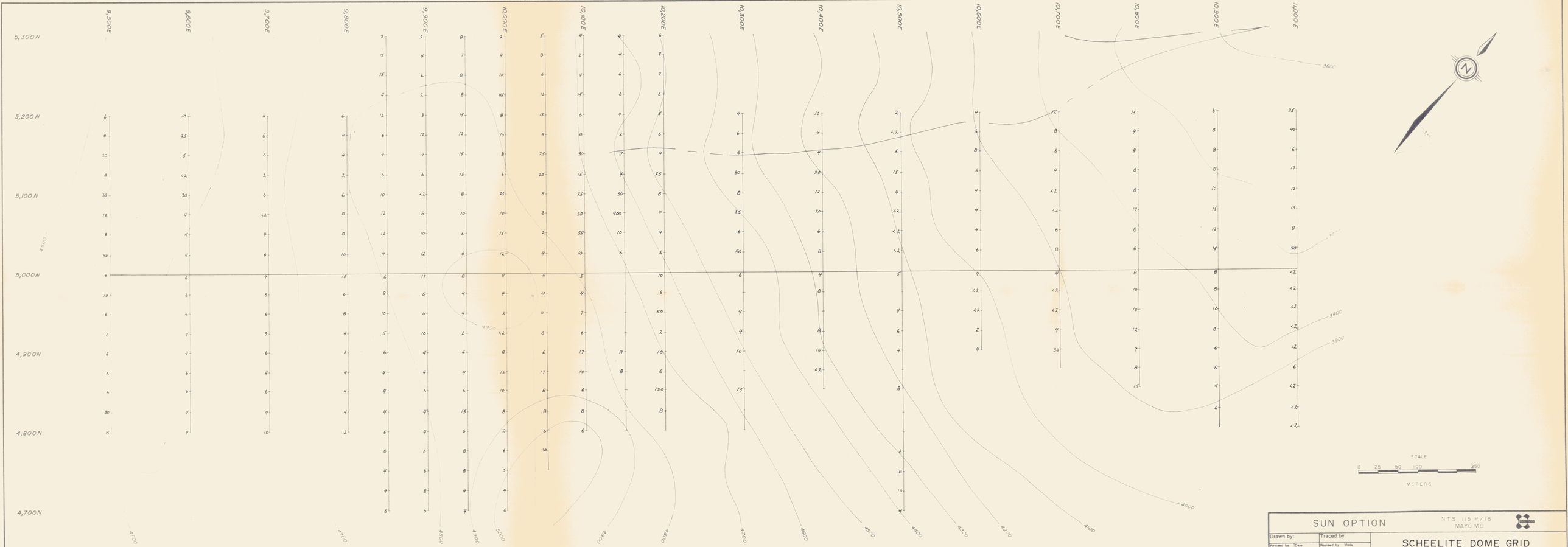
SCHEELITE DOME
BULLDOZED TRENCHES

Scale: 1:500

Date: OCT. 78

Plate: SUN 78-5

FORM 210 0660



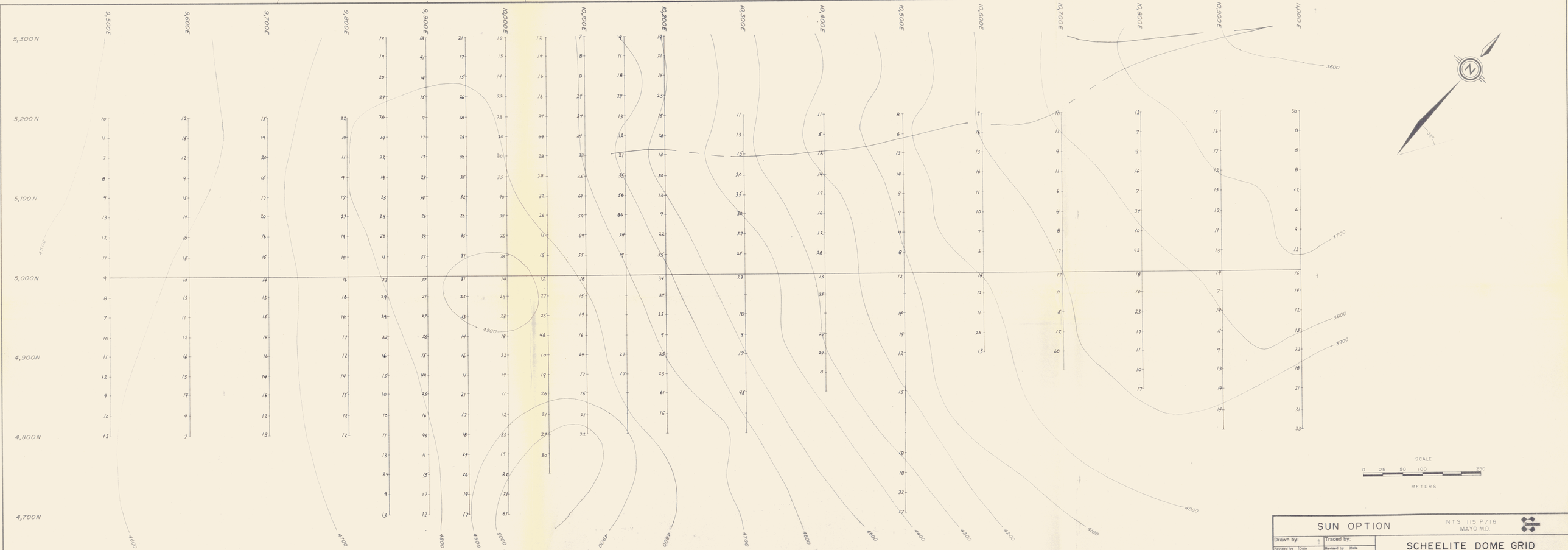
SUN OPTION

NTS 115 P/16
MAYO, M.D.

Drawn by:	Traced by:
Revised by: Date	Revised by: Date

SCHEELITE DOME GRID
SOIL GEOCHEMISTRY
W (ppm)

Scale: 1:2000 Date: OCT 1978 Plate: SUN 78-6



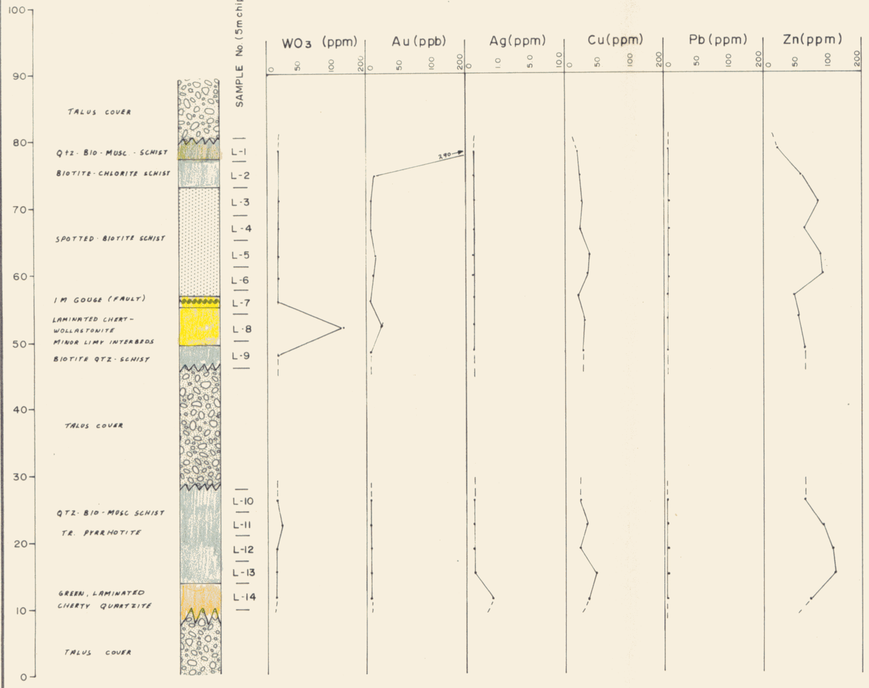
SUN OPTION

NTS 115 P/16
MAYO M.D.

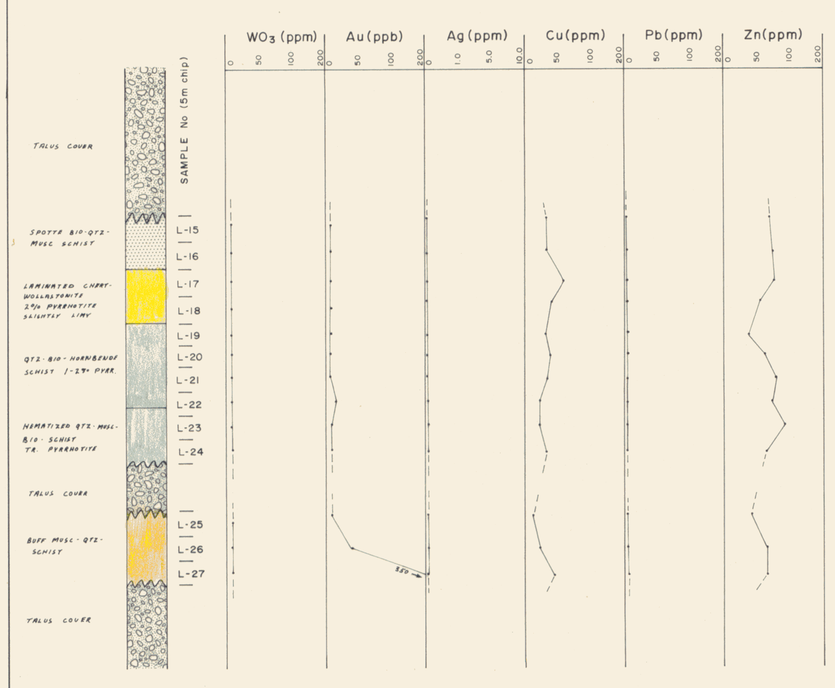
Drawn by:		Traced by:	
Revised by	Date	Revised by	Date

SCHEELITE DOME GRID
SOIL GEOCHEMISTRY
Cu (ppm)

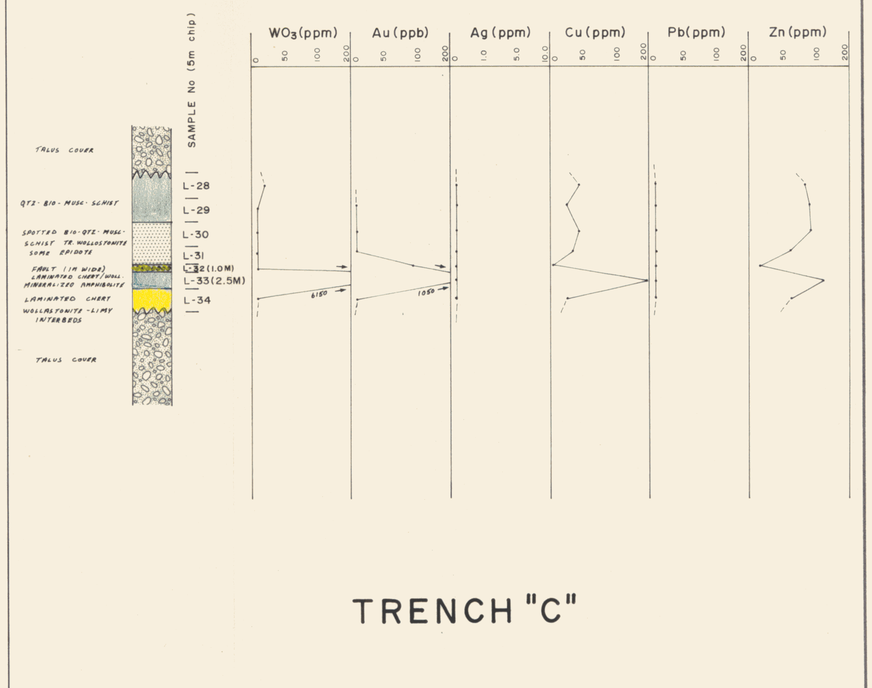
Scale: 1:2000 | Date: OCT 1978 | Plate: SOM 78-7



TRENCH "A"



TRENCH "B"



TRENCH "C"

SUN OPTION

N.T.S. 115 P/16
MAYO M.D.

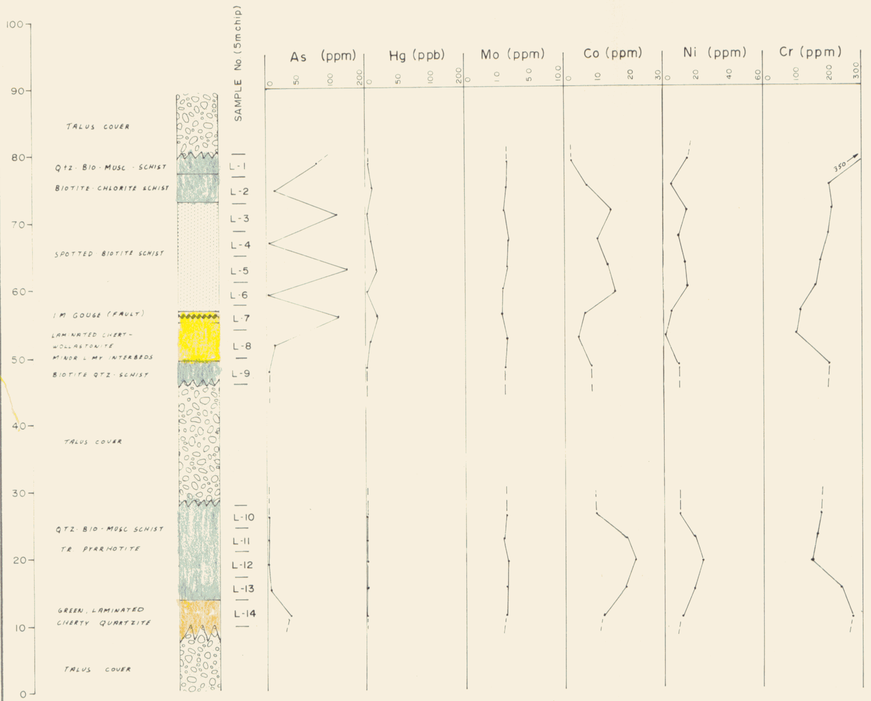
Dominion

Drawn by: L.N.	Traced by: D.M.C.
Revised by / Date	Revised by / Date

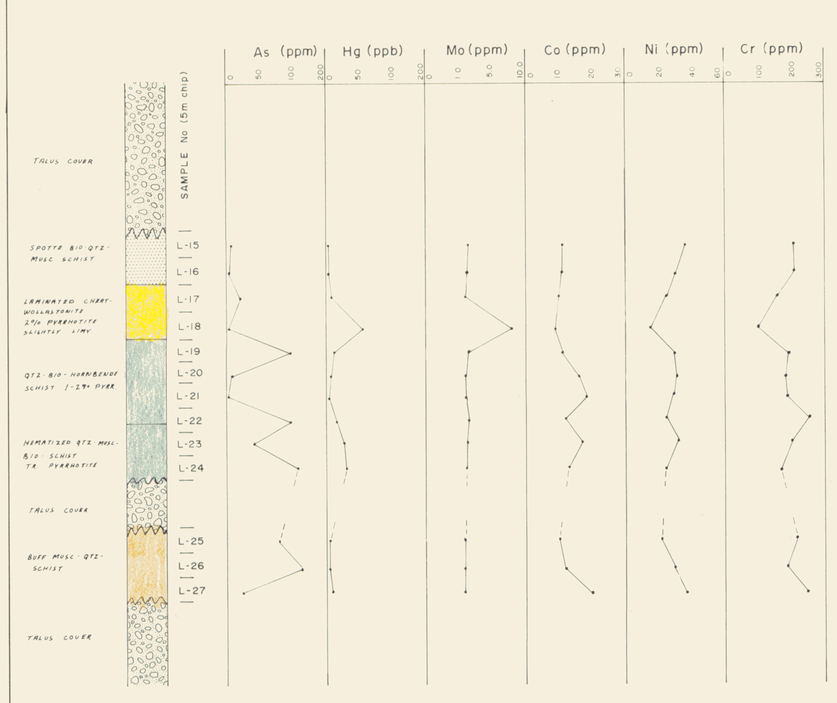
MAIN W-Au SHOWING
STRATIGRAPHIC SECTION AND TRENCH CHIP SAMPLING RESULTS

Scale: 1:500 | Date: NOV. 1978 | Plate: SUN 78-8

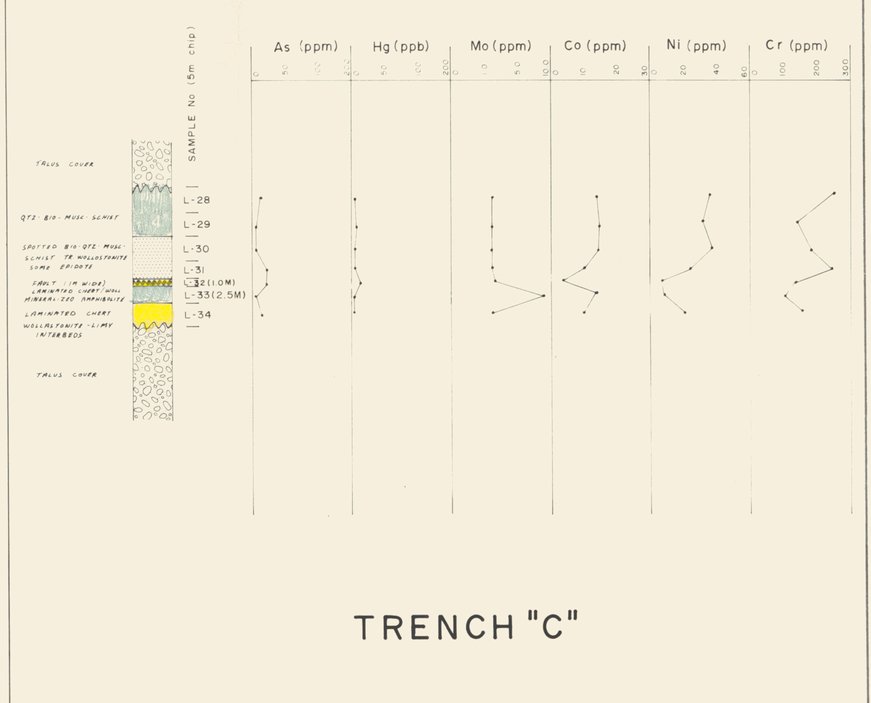
FORM 210.069



TRENCH "A"



TRENCH "B"



TRENCH "C"

SUN OPTION

N.T.S. 115 P/16
MAYO M.D.

Drawn by L.N. | Traced by D.M.C.

MAIN W-Au SHOWING
STRATIGRAPHIC SECTION AND TRENCH CHIP SAMPLING RESULTS

Scale 1:500 | Date NOV. 1978 | Plan Sun 78-9