7444

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I

INTRODUCTION

In July and August, 1964, Keevil Mining Group Ltd. initiated a reconnaissance geological and geochemical survey on the GM group of claims. This survey was directed by K. C. Rose, P. Eng.

The results indicated a moderately strong northwest trending copper soil anomaly apparently derived from a coincident zone of shearing and alteration in underlying quartz diorite. Some molybdenum values were also reported.

Rose, in reporting results of his survey, recommended detailed soil sampling on a grid pattern, as a first phase of additional exploration.

At the request of Keevil Mining Group Ltd., a detailed soil sampling survey for copper and molybdenum was implemented by Chapman, Wood and Griswold Ltd. during the period of September 23 to October 12, 1965.

The detailed survey was directed by Richard Addison, P. Eng., author of this report.

II

CONCLUSIONS AND RECOMMENDATIONS

A. While the reconnaissance geochemical survey undertaken in 1964 indicated the possibility of a rather broad copper soil anomaly along a northwest trend for some 1 1/2 to 2 miles, the detailed survey subsequently completed in 1965 indicates rather definitely that there are in fact a number of anomalous zones of individually lesser extent.

B. The pattern of anomalism derived from a statistical analysis of results of the detailed survey is one of narrow, sinuous and parallel northwest trending zones. At least two of these anomalies exhibit continuity over a strike length of approximately 4,000 feet. Apparent widths range up to a maximum of about 1,000 feet, but the average is about 400 feet.

The linearity and parallelism of the copper anomalies are undoubtedly related to mineralization controlled by swarms of strong northwest trending fractures in the underlying intrusive.

C. The extent of dispersion of copper values in the soil mantle appears to be somewhat limited. Hence it is inferred that zones of copper mineralization in the underlying hostrock are probably narrow in width, but rather persistent in length.

D. Some outcrops found within or near anomalous zones contain malachite, and sparsely disseminated pyrite and chalcopyrite.

Neither host rock alteration nor oxidation of metallics appear particularly intense, and all copper mineralization noted was judged to be below economic grade.

E. In our opinion the geologic environment in the Granite Mountain area is favourable for the occurrence of significant low grade copper deposits probably with associated minor amounts of molybdenum.

However, if the geochemical results are taken as the prevailing criterion of favourability, it would seem that the possibility of the occurrence of a commercial near-surface deposit within the limits of the detailed survey grid is rather slim.

Nevertheless, in view of the relatively minor expenditure that would be required, it is our opinion that a limited program of bulldozer trenching should be undertaken with the objective of exposing bedrock within the area of the strongest geochemical anomaly. More exact information on the character of mineralization and its relationship to the anomalies should then be available.

Dependent on these results, more positive decisions on continuing or abandoming exploration could be made.

F. A staged program of bulldozer trenching, with available Cobra rock drill support, is recommended:

1. On claim GM 104, Line 112N, trench from 0 - 6 East.
2. On claim GM 104, Line 116N, trench from 0 - 8 East.
3. On claim GM 104, Line 120N, trench from 5 East to 15 East.

Some blasting would probably be required.

If the findings were of sufficient interest, chip sampling and/or sampling by X-ray drilling would probably be the best initial method to evaluate the range of metal content.

Probable cost of the above work would be in the range of $4,000 to $5,000.

Physical conditions would be best during the summer season.

Respectfully submitted,

CHAPMAN, WOOD & GRISWOLD LTD.

R. S. Addison

R. S. Addison, P. Eng.

November 30, 1965

III

LOCATION, DESCRIPTION AND ACCESS

The GM claims lie on Granite Mountain at 52°30' north latitude and 122°15' west longitude, approximately 6 miles northeast of McLeese Lake. The property is reached by following the Likely Road for approximately 5 1/2 miles from its junction with the Cariboo Highway at McLeese Lake, and turning north to follow a jeep trail which leads to the summit of Granite Mountain, a distance of about 5 miles. A 1-mile trail was cut from near the summit to the baseline at station 57N.

Granite Mountain, elevation 4587 feet, is one of several rounded hills in the area which rise above the level of the Interior Plateau. A forest fire burned over most of the mountain some years ago and the area now supports a dense growth of jackpine.

IV

GEOLOGY AND MINERALOGY

Reference: G.S.C. Map 12-1959, Quesnel, Cariboo District, British Columbia.

The GM claims are underlain by a quartz diorite pluton of Mesozoic age. The rocks are sheared and jointed in a north-westerly direction, generally striking between N50° and 60°W. Moderate epidote alteration is widespread and most of the ferromagnesian minerals are altered in varying degrees to chlorite.

Minor disseminated chalcopyrite and pyrite, and occasional malachite and azurite were found at a number of locations, usually but not always in rust-brown streaked outcrops. Brown and maroon limonite in small pits and narrow shears indicates that some weathering and leaching of sulfides has occurred, but it is believed that oxidation does not extend to any appreciable depth.

V

GEOCHEMICAL SURVEY

A. Grid Layout

A baseline was cut 13,800 feet long at a bearing of N50°W, and crosslines were turned off at right angles at 400 and 800 foot intervals. The baseline was cut out by axe and the powersaw and stations marked on pickets at 100 foot intervals. The crosslines were marked with orange flagging and stations at 100 foot intervals were marked on blazed trees. All surveying was by compass and chain.

B. Sampling - procedure, interval

Podzol soil associated with the coniferous forest cover of the grid area was sampled at an average depth of about 6 inches. Samples were taken from the orange-brown B horizon below the pale gray A_2 horizon. Care was taken to exclude most of the organic matter and at swampy locations no samples were taken. The soil cover is thin and interrupted by numerous outcrops of quartz-diorite, but usually a soil sample could be obtained at or near a station on the grid.

Soil samples were taken at 200 foot intervals along the baseline and at 100 foot intervals along the crosslines. In addition, 8 random soil samples were collected, giving a total of 785 samples.

All soil samples were sent to the field laboratory of Chapman, Wood, & Griswold Ltd. to be analyzed for copper. Every other sample on 800 foot line spacing was also analyzed for molybdenum, for a total of 219 Mo determinations.

C. Analytical Procedures

Methods used in the field laboratory for determination of copper and molybdenum in the soil samples are described herewith:

DETERMINATION OF COPPER WITH BIQUINOLINE-DIGESTION WITH NITRIC ACID

REAGENTS

1:3 Nitric Acid: Dilute 125 ml of concentrated acid to 500 ml with metal-free water.

Biquinoline Solution: (0.01%) Add 0.1 gram 2, 2' - biquinoline to about 400 ml isoamyl (or normal) alcohol and heat mixture on steam bath until all of the biquinoline dissolves. KEEP AWAY FROM OPEN FLAME. Make up solution to 1000 ml with the alcohol and stir it well. The solution should keep for months.

Buffer Solution: Dissolve 100 grams hydrous sodium acetate, 25 grams hydrous sodium tartrate and 5 grams hydroxylamine hydrochloride in 250 ml metal-free water. Adjust pH of this solution with dilute HCl or NaOH solutions, if necessary, to between 6 and 7, using pH paper. To check for copper contamination place 10 ml of buffer in a test tube, add 1.5 ml of biquinoline solution, cap, shake for 2 minutes. Absence of a pink coloration in the organic layer indicates that the solution is satisfactory for use. If contaminated, purify as total heavy metal buffer, that is, place buffer in separatory funnel, add 10-15 ml 0.01% dithizone, shake, allow the carbon tetrachloride phase to collect in the bottom of the funnel and discard. Continue this process with additional portions until the discarded organic phase is green. Excess dithizone may be removed by carbon tetrachloride extraction.

Standard Solution: 0.2 gram hydrated copper sulphate dissolved in 50 ml N hydrochloric acid (normal solution contains gram-equivalent weight in 1000 ml water, that is, 83 ml concentrated hydrochloric acid made up to 1000 ml) and then diluted to 500 ml in a graduated cylinder - with demineralized water. Dilute 1 ml of this solution to 100 ml to give a solution containing 1 microgram of copper per milliliter.

Preparation of Standards: A series of standards ranging from 0.2 to 12.0 micro-grams copper (as for cold extraction dithizone) is recommended. To prepare standards, place 1 ml 6 N HCl in each test tube; add to each the requisite amount of standard copper solution of appropriate concentration to produce the series suggested above; then follow the regular procedure steps 7 and 8.

PROCEDURE

1. Weigh out 0.6 gram of sieved sample into test tube. Smaller weight may be taken if high values are expected.
2. Add 4 ml of 1:3 nitric acid to sample.
3. Simmer for 1 hour on the sand tray. Add few more drops of acid to sample to correct for evaporation.
4. Remove samples from sand tray and dilute to 6 ml with water. Dispense metal-free water from squeeze bottle.
5. Mix well and allow to settle for 15 minutes.
6. Pipette 2 ml of the test solution into a test tube.
7. Add 10 ml buffer solution, 4 ml 0.01% biquinoline; cap tube and shake vigorously for 30 seconds.
8. Allow the tube to stand until the organic layer separates sufficiently, then either compare color of organic layer with standard or use colorimeter.
9. If colorimeter is not available, to convert to parts per million, multiply by five the number of micrograms of copper found. The upper range of the method can be extended by decreasing the sample size.

10. If colorimeter is available, set wavelength dial to 540 mμ, determine 100% transmittance for solvent and using selected cuvettes do transmittance readings of at least 3 ml of unknown. Concentration is obtained from calibration curve provided.

11. If transmittance of amyl alcohol layer is less than it is indicated on calibration curve, half or quarter soil sample and multiply concentration obtained by appropriate factor.

DETERMINATION OF MOLYBDENUM IN SOILS AND ROCKS

CARBONATE FUSION METHOD

The method is based on the reaction of molybdenum with thiocyanate in the presence of stannous chloride. The molybdenum thiocyanate complex formed is extracted by a small volume of iso-propyl ether which increases the sensitivity of the method and eliminates certain interferences. The sample is fused with a mixture of sodium carbonate and potassium nitrate. After the analysis is completed, the tube used for the fusion is destroyed, as the action of the flux on the tube makes further use of the tube impractical. The sodium molybdate formed during the fusion is dissolved in water and an aliquot of this aqueous solution is used for the estimation of molybdenum. The addition of tartrate prevents a reaction between tungsten and thiocyanate, otherwise, the complex formed would be extracted by the ether and would interfere with the estimation of molybdenum.

Molybdenum is 10,000 times as abundant as rhenium in the earth's crust, therefore, as an interference, rhenium may be ignored in the usual samples. The one microgram per ml standard molybdenum solution has to be prepared often because the molybdenum is absorved by the glass. The standards used for the estimation should also be prepared daily.

Procedure

1. Weigh 0.1 g of the sample and transfer it to an unmarked 16x150 mm culture tube, then add 0.5 g of flux to the tube. Shake the tube thoroughly to mix the sample and flux.

2. Heat and rotate tube over a burner to effect a sinter.

3. Add 4 ml of demineralized water to the cooled tube.

4. Place the tube in a boiling water bath for 5 minutes. A glass rod may be used to crush the sinter.

5. Remove the tube from the water bath and let the tube cool. Transfer a one ml aliquot of the clear solution into a 16x150 mm culture tube marked at 5 ml.

6. Add one drop of phenolphthalein solution to the aliquot and then add 1 molar hydrochloric acid, drop by drop, until the pink color disappears.

7. Add 0.5 ml of the potassium nitrate solution to the contents of the tube.

8. Add 0.2 g powdered sodium tartrate to the tube and shake to dissolve. Bring the volume of the solution to 5 ml with water.

9. Add,to the tube, shaking the tube after each addition, the following reagents:

   0.5 ml of conc hydrochloric acid
   0.3 ml of the potassium thiocyanate solution
   0.5 ml of the stannous chloride solution

10. Allow the tube to stand one minute, then add 0.5 ml of iso-propyl ether; shake the tube vigorously for ten seconds.

D. Interpretation of results

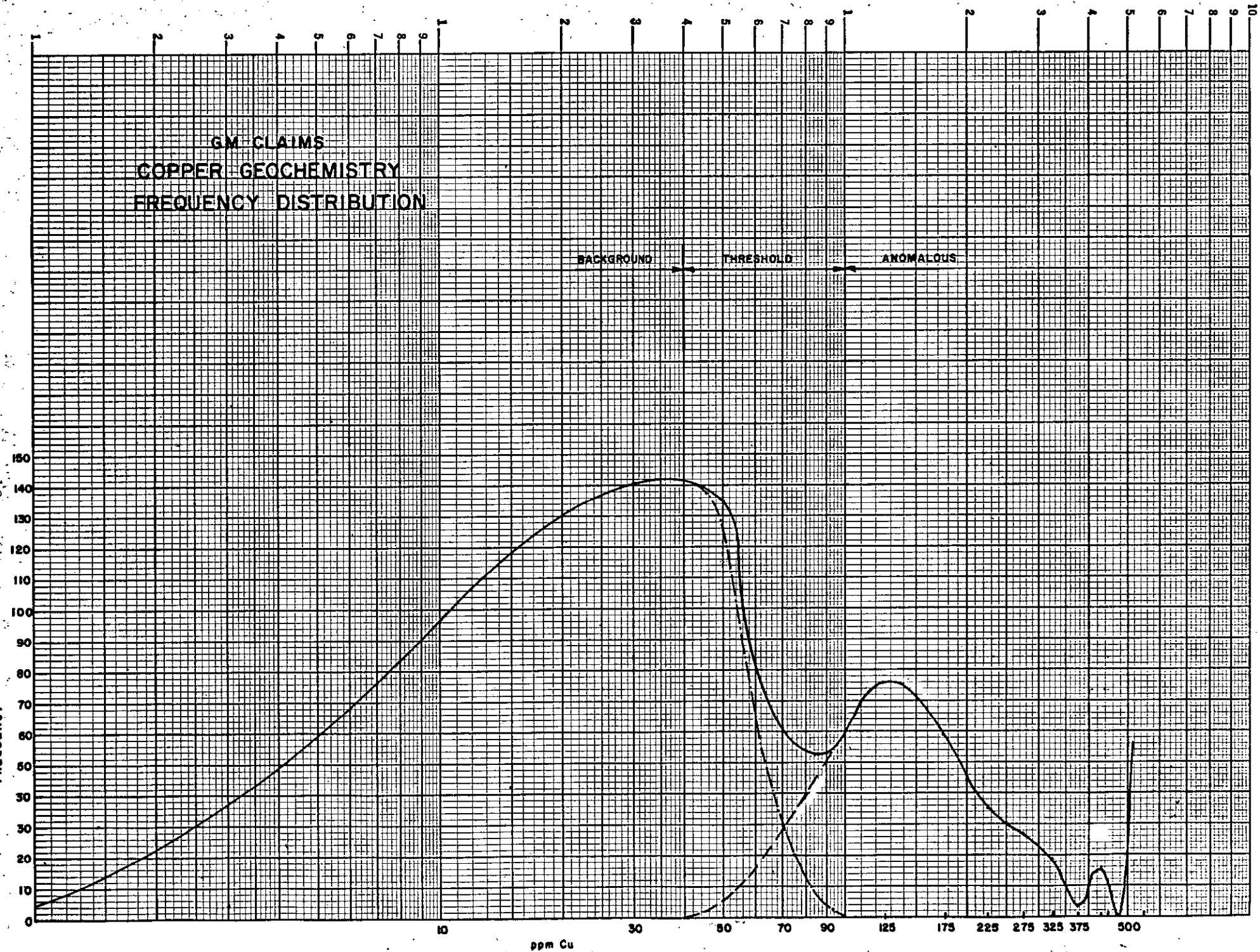
Comments: Copper values vary from 5 ppm to over 1000 ppm. From a graph of frequency against log (ppm copper), values were selected for background, 0-40 ppm; threshold, 40-100 ppm; and anomalous, 100+ ppm. A number of anomalous areas are outlined by the 100 ppm copper contour. These anomalies are elongated in a northwesterly direction approximately parallel to the predominant direction of shearing and jointing in the plutonic rocks. The highest copper values occur on Line 120N, east of the baseline and near the western boundary of the GM claims. Anomalous copper values would appear to extend to the north and east beyond the limits of the present survey.

Molybdenum values vary from <0.5 ppm to a high of 26 ppm. Eighty-five per cent of the values are less than 3 ppm. High values

are erratically distributed and with the possible exception of Line 120N/4E to 12E, correlation with copper anomalism is not clearly evident.

Statistical derivation of background, threshold, and anomalous copper values is illustrated on the Frequency Distribution graph on page 13.

Copies of the Reports of Geochemical Analysis are appended to this report.



VI

DETAILS OF EXPENDITURE FOR ASSESSMENT PURPOSES

Due to difficulties encountered in accurately locating boundaries between the GM claims 103, 104, 105, 106, and the GG claims adjoining on the west, a small portion of the geochemical survey grid at its northwest extremity appears to overlap the GG group.

Therefore, in filing Affidavit On Application For Certificate of Work, it may be necessary to pro-rate expenditures for strict compliance with the applicable regulations.

Such a pro-ration may be determined on the basis of total grid samples collected and analysed:

No. Samples Total Grid	No. Samples off GM Claims
Cu - 778	Cu - 76
Mo - 219	Mo - 16
997	92 or 9.23 percent

Total cost of the survey as billed to Keevil Mining Group Ltd. by Chapman, Wood & Griswold Ltd. on Invoice No. 891, November 30, 1965, is $5,095.51.

$5,095.51 less 9.23 percent ($470.31) = $4,625.20, which would be the total attributable to cost on the GM claims.

Details of Costs

SERVICES:	
Supervising Engr., R. S. Addison, 1 month	$1,500.00
Samplers:	
D. J. Hance, 19 d. @ $22, 6 d. @ $11	484.00
W. Dick, 19 d. @ $22, 6 d. @ $11	484.00
E. Scholtes, 17 d. @ $22, 6 d. @ $11	440.00
778 copper determinations @ 70¢	544.60
219 molybdenum determinations @ 70¢	153.30
Total Services	$3,605.90
FIELD EXPENSE:	
Loan, B.C. air photos	$ 5.88
Supplies	67.32
Board and lodging	675.60
Communications	32.86
Vehicle operating cost	132,70
Equipment rentals, chainsaw, Landrover, tractor	575.00
Miscellaneous	.25
Total Field Expense	$1,489.61
TOTAL COST	$5,095.51

Record of Personnel and Days Worked

R. S. Addison, Supervising Engineer, is employed as a Geological Engineer on the staff of Chapman, Wood & Griswold Ltd. Days worked in field September 23 - October 23, 1965.

Douglas Hance, sampler, residing at Hanceville, B.C.

Full days worked in field - September 24 - 30; October 1, 4, 5, 6, 8, 9, 11, 12, 13, 17, 21, 22, 23.

Part time days worked in field - October 14, 15, 16, 18, 19, 20.

William Dick, sampler, residing at Hanceville, B. C.

Full days worked in field - September 24 - 30;

October 1, 4, 5, 6, 8, 9, 11, 12, 13, 17, 21, 22, 23.

Part time days worked in field - October 14, 15, 16, 18, 19, 20.

Eric Scholtes, sampler, residing at Williams Lake, B. C.

Full days worked in field - September 26 - 30;

October 1, 4, 5, 6, 8, 9, 11, 12, 13, 17, 21, 22, 23.

Part time days worked in field - October 14, 15, 16, 18, 19, 20.

VII

AFFIDAVIT OF QUALIFICATIONS

I, R. S. ADDISON, of Vancouver, British Columbia, do hereby certify that:

1. I am a geological engineer and reside at 2250 York St., Vancouver, B. C.

2. I am a registered Professional Engineer in the Province of British Columbia.

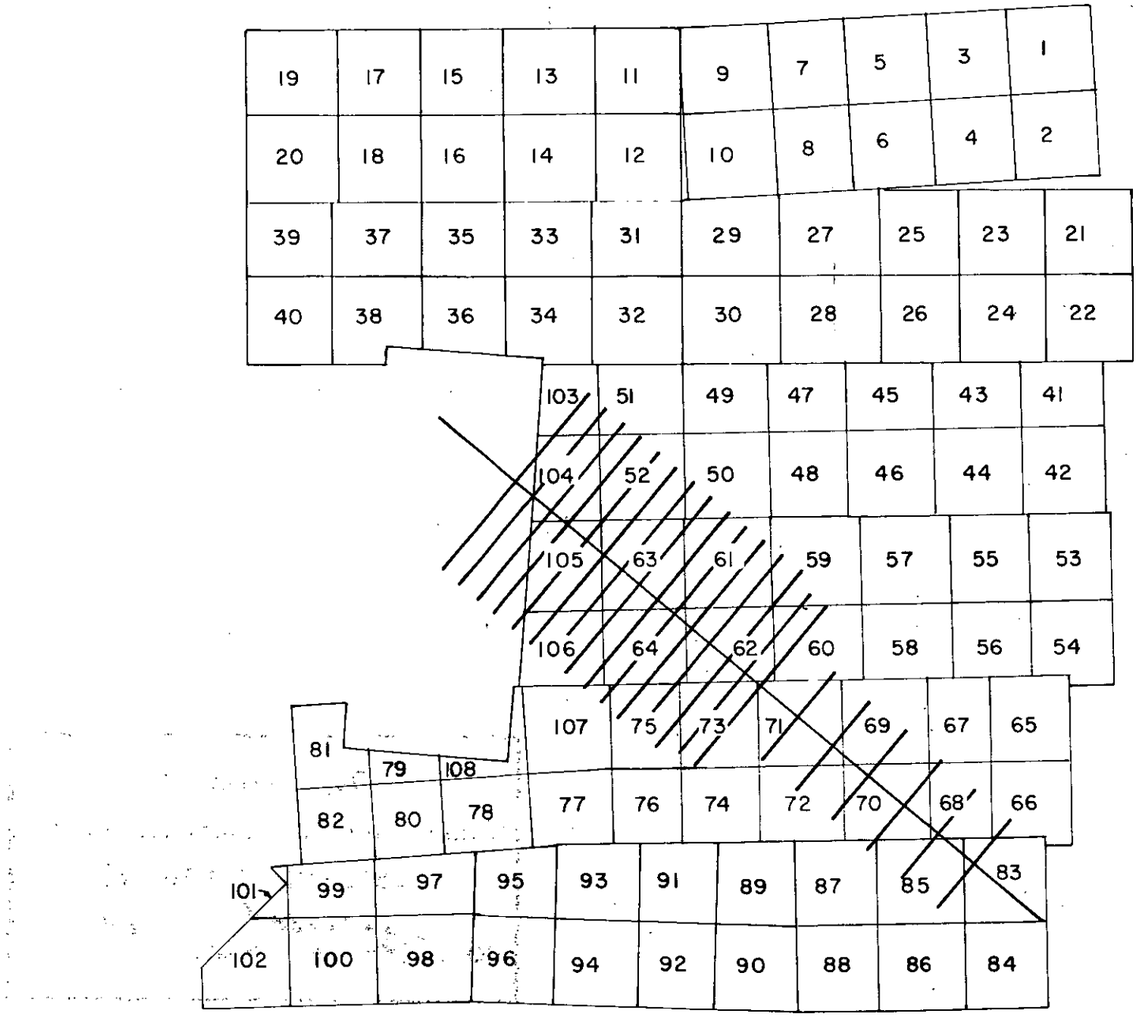
3. I received the degree of B. A. Sc. in Geological Engineering at the University of British Columbia in May 1959 and I have practised my profession as a geologist since that time.

4. I have been engaged in mining exploration in Africa and Canada for the past 5 years.

5. I supervised directly all the work described in this report.

Dated at Vancouver
this 30th day of November 1965

R. S. Addison



N

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. #744 MAP #1

KEEVIL MINING GROUP LTD.

GM CLAIM MAP
GM1 – GM108

0 2640 5280ft

CW&G Ltd

Drwg. No.:-452
DATE:-NOV.29/65

CHAPMAN WOOD & GRISWOLD LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by: Addison — Project: Keevil Mining Group

Method data: hot extraction Cu- biquinoline — Analyst: L. Hurd, J. Critchlow — Date: Oct. 2/65

Base Line

Sample No.	Remarks	Soil	Silt	Water		THM ppm	exCu ppm	hxCu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Co	
BL- 0								120								
-2N								45								
-4N								20								
-6N								40								
-8N								30								
-10N								+250								
-12N								200								
-14N								250								
-16N								200								
-18N								125								
-20N								50								
-22N								100								
-24N								175								
-26N								75								
-28N								+250								
-30N								200								
-32N								+250								
-34N								50								
-36N								40								
-38N								200								
-40N								50								
-42N								40								
-44N								150								

CHAPMAN WOOD & GRISWOLD LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by Addison

Method data hot extraction
Cu biquinoline

Project Keevil Mining Group Oct. 2/65

Analyst L. Hurd Date: Oct. 4/65

Sample No.	Remarks	Soil	Silt	Water		THM ppm	hxCu ppm	cxCu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Co	
Base Line- 46N		✓					250									
-48N		✓					+250									
-50N		✓					+250									
-52N		✓					25									
-54N		✓					15									
-56N		✓					25									
-58N		✓					50									
-60N		✓					75									
-62N		✓					40									
-64N		✓					10									
-66N		✓					200									
-68N		✓					40									
-70N		✓					+250									
-72N		✓					75									
-74N		✓					20									
-76N		✓					+250									
-78N		✓					30									
-80N		✓					400									
-82N		✓					100									
-84N		✓					20									
-86N		✓					80									
-88N		✓					+500									
-90N		✓					20									

CHAPMAN WOOD & GRISWOLD LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by Addison Project Keevil Mining Group

Method data hot extraction Analyst L. Hurd Date: Oct. 4/65

Cu biquinoline

Sample No.	Remarks	Soil	Silt	Water		THM ppm	hxCu ppm	cxCu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Co	
Base Line-92N		✓					50									
-94N		✓					500									
-96N		✓					80									
-98N		✓					120									
-100N		✓					50									
-102N		✓					30									
-104N		✓					+500									
-106N		✓					+500									
-108N		✓					500									
-110N		✓					120									
-112N		✓					150									
-114N		✓					175									
-116N		✓					100									
-118N		✓					150									
-120N		✓					500									
-122N		✓					250									
-124N		✓					100									
-126N		✓					+500									
-128N		✓					100									
-130N		✓					500									
-132N		✓					20									
-134N		✓					90									
-136N		✓					50									
-138N		✓					40									

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CHAPMAN WOOD & GRISWOLD LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by: Addison

Project: Keevil Mining Group

Method data: hot ex. Cu – biquinoline

Analyst: L. Hurd, J. Critchlow

Date: Nov. 9/65

Sample No.	Remarks	Soil	Silt	Water		THM ppm	hxCu ppm	cxCu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Co	
16N - 1E		✓					40									
2E		✓					50									
3E							Yellow									
4E		✓					5									
5E		✓					45									
6E		✓					30									
7E		✓					90									
8E		✓					150									
9E		✓					40									
10E		✓					5									
16N - 1W		✓					180									
2W		✓					30									
3W		✓					20									
4W		✓					100									
5W		✓					10									
6W		✓					200									
7W		✓					20									
8W		✓					20									
9W		✓					10									
10W		✓					40									

RECEIVED NOV 12 1965

CHAPMAN WOOD & GRISWOLD LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by Addison Project Keevil Mining Group

Method data hot ex. Cu — Diquinoline Analyst L. Hurd Date: Nov. 9/65

J. Critchlow

Sample No.	Re	S	Silt	Water		THAT ppm	hxCu ppm	exCu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Co	
24N-1E		✓					30									
2E		✓					110									
3E		✓					180									
4E		✓					20									
5E		✓					80									
6E		✓					5									
7E		✓					90									
8E		✓					150									
9E		✓					20									
10E		✓					30									
24N-1W		✓					100									
2W		✓					100									
3W		✓					150									
4W		✓					20									
5W		✓					80									
6W		✓					5									
7W		✓					50									
8W		✓					10									
9W		✓					< 5									
10W		✓					< 5									

CHAPMAN WOOD & GRISWOLD LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by: Addison Project: Keevil Mining Group

Method data: hot ex - Cu biquinoline Analyst: L. Hurd, J. Critchlow Date: Nov. 9/65

Sample No.	Remarks	Soil	Silt	Water		THM ppm	hxCu ppm	cxCu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Co	
32N-1E		✓					200									
-2E		✓					5									
-3E		✓					30									
-4E		✓					500									
-5E		✓					40									
-6E		✓					20									
-7E		✓					50									
-8E		✓					10									
-9E		✓					20									
-10E		✓					5									
32N-1W		✓					130									
-2W		✓					750									
-3W		✓					230									
-4W		✓					500									
-5W		✓					15									
-6W		✓					15									
-7W		✓					60									
-8W		✓					130									
-9W		✓					40									
-10W		✓					80									

C C C

CHAPMAN WOOD & GRISWOLD LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by: Addison — Project: Keevil Mining Group

Method data: hot ex-Cu biquinoline — Analyst: L. Hurd — Date: Nov. 10/65

Sample No.	Remarks	Soil	Silt	Water		THM ppm	hxCu ppm	cxCu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Co	
40N-1E		✓					300									
2E		✓					400									
3E		✓					500									
4E		✓					100									
5E		✓					60									
6E		✓					200									
7E		✓					400									
8E		✓					125									
9E		✓					40									
10E		✓					40									
40N-1W		—														
2W		✓					400									
3W		✓					500									
4W		✓					300									
5W		✓					150									
6W		✓					20									
7W		✓					80									
8W		✓					40									
9W		✓					20									
10W		✓					500									

CHAPMAN WOOD & GRISWOLD LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by Addison Project Keevil Mining Group

Method data hot extraction Cu- biquinoline Analyst L. Hurd Date: Oct. 4/65

Sample No.	Remarks	Soil	Silt	Water		THM ppm	hxCu ppm	cxCu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Co	
48N-1E		✓					50									
-2E		✓					+500									
-3E		✓					250									
-4E		✓					100									
-5E		✓					150									
-6E		✓					20									
-7E		✓					40									
-8E		✓					50									
-9E		✓					300									
-10E		✓					+500									
48N-2W		✓					50									
-3W		✓					40									
-4W		✓					30									
-5W		✓					100									
-6W		✓					100									
-7W		✓					+500									
-8W		✓					100									
-9W		✓					150									
-10W		✓					40									

CHAPMAN WOOD & GRISWOLD LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by: Addison — Project: Keewil Mining Group

Method data: hot ex Cu biquinoline — Analyst: L. Hurd, J. Critchlow — Date: Oct. 5/65

Sample No.	Remarks	Soil	Silt	Water		THM ppm	hxCu ppm	cxCu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Co	
56N-1E		✓					100									
-2E		✓					5									
-3E		✓					10									
-4E		✓					40									
-5E		✓					30									
-6E		✓					80									
-7E		✓					60									
-8E	[redacted]	✓					200									
-9E		✓					500									
-10E		✓					50									
56N-1W		✓					60									
-2W		✓					70									
-3W		✓					20									
-4W		✓					10									
-5W		✓					40									
-6W		✓					100									
-7W		✓					40									
-8W		✓					150									
-9W		✓					60									
-10W		✓					50									

CHAPMAN WOOD & GRISWOLD LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by Addison

Method data hot ex. Cu - biquinoline

Project Keevil Mining Group

Analyst L. Hurd
J. Critchlow

Date: Oct. 15 1965

Sample No.	Remarks	Soil	Silt	Water		THM ppm	hxCu ppm	cxCu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Co	
64N - 1E							20									
- 2E							20									
- 3E							30									
- 4E							150									
- 5E							125									
- 6E							50									
- 7E							70									
- 8E							40									
- 9E							40									
- 10E							200									
- 11E							30									
- 12E							50									
- 13E							30									
- 14E							20									
- 15E							15									
- 16E							30									
- 17E							10									
- 18E							20									
64N - 1W							70									
- 2W							60									
- 3W							120									
- 4W							yellow									
- 5W							50									

CHAPMAN WOOD & GRISWOLD LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by Addison

Project Keevil Mining Group

Method data hot ck. Cu - bisquinoline

Analyst L. Hurd
J. Critchlow

Date: Oct. 5, 1965

(continued)

Sample No.	Remarks	Soil	Silt	Water		THM ppm	hxCu ppm	cxCu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Co	
6.4N - 6 W							300									
- 7 W							Yellow									
- 8 W							45									
- 9 W							70									
- 10 W							60									
- 11 W							40									
- 12 W							40									
- 13 W							40									
- 14 W							30									
- 15 W							5									
- 16 W							10									
- 17 W							30									
- 18 W							40									

CHAPMAN WOOD & GRISWOLD LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by Addison

Project Keevil Mining Group

Method data hot ex- ~~tr~~ · Cu-biquinoline

Analyst L. Hurd
J. Critchlow

Date: Oct 15/65

Sample No.	Remarks	Soil	Silt	Water		THM ppm	hxCu ppm	cxCu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Co	
68N- 1E		✓					30									
- 2E		✓					50									
3E		✓					20									
4E		✓					20									
5E		✓					45									
6E		✓					80									
7E		✓					70									
8E		✓					60									
9E		✓					100									
10E		✓					50									
11E		✓					300									
12E		✓					300									
13E		✓					15									
14E		✓					20									
15E		✓					80									
16E		✓					40									
17E		✓					100									
18E		✓					500									
~~tr~~																
68N- 1W		✓					< 5									
- 2W		✓					80									
3W		✓					5									
4W		✓					70									

CHAPMAN WOOD & GRISWOLD LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by Addison

Project Keevil Mining Group

Method data hot ex. Cu - biquinoline

Analyst L. Hurd, J. Critchlow

Date: Oct. 15/65

Sample No.	Remarks	Soil	Silt	Water		THM ppm	hxCu ppm	cxCu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Co	
68 N - 5 W		✓					10									
- 6 W		✓					40									
7 W		✓					30									
8 W		✓					< 5									
9 W		✓					20									
10 W		✓					250									
11 W		✓					500									
12 W		✓					10									
13 W		✓					30									
14 W		✓					40									
15 W		✓					20									
16 W		✓					30									
17 W		✓					10									
18 W		✓					10									

CHAPMAN WOOD & GRISWOLD LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by Addison — Project Keevil Mining Group

Method data hot ex- Cu biquinoline — Analyst L. Hurd, J. Critchlow — Date: Oct. 6/65

Sample No.	Remarks	Soil	Silt	Water		THM ppm	hxCu ppm	cxCu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Co	
72N - 1E		✓					10									
- 2E		✓					40									
- 3E		✓					100									
- 4E		✓					75									
- 5E		✓					15									
- 6E		✓					30									
- 7E		✓					150									
- 8E		✓					175									
- 9E		✓					150									
- 10E		✓					60									
- 11E		✓					20									
- 12E		✓					30									
- 13E		✓					50									
- 14E		✓					20									
- 15E		✓					< 5									
- 16E		✓					30									
- 17E		✓					20									
- 18E		✓					30									
- 19E		✓					75									
- 20E		✓					60									

CHAPMAN WOOD & GRISWOLD LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by Addison

Method data hot ex. Cu - biquinoline

Project Keevil Mining Group

Analyst L. Hurd
J. Critchlow

Date: Oct. 5, 1965

Sample No.	Remarks	Soil	Silt	Water		THM ppm	hxCu ppm	cxCu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Co	
72 N - 1 W							40									
- 2 W							90									
- 3 W							60									
- 4 W							40									
- 5 W							40									
- 6 W							20									
- 7 W							10									
- 8 W							30									
- 9 W							100									
- 10 W							5									
- 11 W							20									
- 12 W							10									
- 13 W							5									
- 14 W							5									
- 15 W							10									
- 16 W							5									
- 17 W							5									
- 18 W							20									
- 19 W							5									
- 20 W							< 5									

CHAPMAN WOOD & GRISWOLD LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by Addison — Project Keevil Mining Group

Method data hot ex Cu – biquinoline — Analyst L. Hurd, J. Critchlow — Date: Oct. 16/65

Sample No.	Remarks	Soil	Silt	Water		THM ppm	hxCu ppm	cxCu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Co	
76N-1E		✓					40									
2E		✓					150									
3E		✓					175									
4E		✓					100									
5E		✓					80									
6E		✓					40									
7E		✓					30									
8E		✓					40									
9E		✓					200									
10E		✓					60									
11E		✓					100									
12E		✓					90									
13E		✓					100									
14E		✓					20									
15E		✓					40									
16E		✓					5									
17E		✓					300									
18E		✓					500									
19E		✓					20									
20E		✓					30									

CHAPMAN WOOD & GRISWOLD LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by Addison

Project Keevil Mining Group

Method data hot ex. Cu - biquinoline

Analyst L. Hurd, J. Critchlow

Date: Oct. 15/65

Sample No.	Remarks	Soil	Silt	Water		THM ppm	hxCu ppm	cxCu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Co	
76N - 1W		✓					400									
2W		✓					20									
3W		✓					500									
4W		✓					50									
5W		✓					20									
6W		✓					60									
7W		✓					20									
8W		✓					20									
9W		✓					10									
10W		✓					30									
11W		✓					20									
12W		✓					30									
13W		✓					5									
14W		✓					50									
15W		✓					15									
16W		✓					40									
17W		✓					25									
18W		✓					40									
19W		✓					20									
20W		✓					200									

CHAPMAN WOOD & GRISWOLD LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by Addison

Project Keevil Mining Group

Method data hot e1 - Cu biquinoline

Analyst L. Hurd
J. Critchlow

Date: Oct. 6/65

Sample No.	Remarks	Soil	Silt	Water		THM ppm	hxCu ppm	cxCu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Co	
BON- 1E		✓					20									
-2E		✓					50									
-3E		✓					200									
-4E		✓					Yellow									
-5E		✓					80									
-6E		✓					5									
-7E		✓					50									
-8E		✓					30									
-9E		✓					30									
-10E		✓					200									
-11E		✓					80									
-12E		✓					60									
-13E		✓					250									
-14E		✓					10									
-15E		✓					20									
-16E		✓					20									
-17E		✓					15									
-18E		✓					75									
-19E		✓					125									
-20E		✓					100									

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CHAPMAN WOOD & GRISWOLD LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by Addison

Project Keevil Mining Group

Method data hot ex. Cu biquinoline

Analyst L. Hurd
J. Critchlow

Date: Oct. 8, 1965

Sample No.	Remarks	Soil	Silt	Water		THM ppm	hxCu ppm	cxCu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Co	
BON-1W		✓					+250									
-2W		✓					+250									
-3W		✓					30									
-4W		✓					75									
-5W		✓					20									
-6W		✓					40									
-7W		✓					+250									
-8W		✓					100									
-9W		✓					10									
-10W		✓					+250									
-11W		✓					10									
-12W		✓					40									
-13W		✓					25									
-14W		✓					50									
-15W		✓					20									
-16W		✓					25									
-17W		✓					50									
-18W		✓					75									
-19W		✓					100									
-20W		✓					+250									

CHAPMAN WOOD & GRISWOLD LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by Addison

Method data hot ex Cu - biquinoline

Project Keevil Mining Group

Analyst L. Hurd
J. Critchlow

Date: Oct. 15/65

Sample No.	Remarks	Soil	Silt	Water		THM ppm	hxCu ppm	cxCu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Co	
84 N - 1 E		✓					400									
2 E		✓					5									
3 E		✓					10									
4 E		✓					100									
5 E		✓					5									
6 E		✓					50									
7 E		✓					< 5									
8 E		✓					200									
9 E		✓					30									
10 E		✓					175									
11 E		✓					500									
12 E		✓					80									
13 E		✓					100									
14 E		✓					60									
15 E		✓					150									
16 E		✓					150									
17 E		✓					60									
18 E		✓					80									
19 E		✓					80									
20 E		✓					100									

CHAPMAN WOOD & GRISWOLD LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by Addison — Project Keevil Mining Group

Method data hot ex. Cu biquinoline — Analyst L. Hurd, J. Critchlow — Date: Oct. 16/65

Sample No.	Remarks	Soil	Silt	Water		THM ppm	hxCu ppm	cxCu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Co	
84N-1W		✓					60									
-2W		✓					90									
-3W		✓					70									
-4W		✓					< 5									
-5W		✓					10									
-6W		✓					200									
-7W		✓					500									
-8W		✓					400									
-9W		✓					100									
-10W		✓					500									
-11W		✓					500									
-12W		✓					10									
-13W		✓					5									
-14W		✓					20									
-15W		✓					40									
-16W		✓					5									
-17W		✓					20									
-18W		✓					25									
-19W		✓					40									
-20W		✓					175									

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CHAPMAN WOOD & GRISWOLD LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by Addison

Project Keevil Mining Group

Method data hot ex - Cu biquinoline

Analyst L. Hurd
J. Critchlow

Date: Oct. 8/65

Sample No.	Remarks	Soil	Silt	Water		THM ppm	hxCu ppm	cxCu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Co	
88N - 1E		✓					40									
-2E		✓					200									
-3E		✓					200									
-4E		✓					100									
-5E		✓					200									
-6E		✓					15									
-7E		✓					15									
-8E		✓					200									
-9E		✓					50									
-10E		✓					300									
-11E		✓					50									
-12E		✓					150									
-13E		✓					75									
-14E		✓					75									
-15E		✓					250									
-16E		✓					250									
-17E		✓					75									
-18E		✓					100									
-19E		✓					250									
-20E		✓					75									

CHAPMAN WOOD & GRISWOLD LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by Addison Project Keevil Mining Group

Method data hot ex. Cu - biquinoline Analyst L. Hurd, J. Critchlow Date: Oct. 9/65

Sample No.	Remarks	Soil	Silt	Water		THM ppm	hxCu ppm	cxCu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Co	
88N-1W	samples = .3gm.	✓					+500									
-2W		✓					++500									
-3W		✓					500									
-4W		✓					20									
-5W		✓					20									
-6W		✓					10									
-7W		✓					10									
-8W		✓					40									
-9W		✓					40									
-10W		✓					30									
-11W		✓					80									
-12W		✓					+500									
-13W		✓					yellow									
-14W		✓					40									
-15W		✓					30									
-16W		✓					20									
-17W		✓					300									
-18W		✓					30									
-19W		✓					30									
-20W		✓					80									

CHAPMAN WOOD & GRISWOLD LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by Addison Project Keevil Mining Group

Method data hot ex Cu-biquinoline Analyst L. Hurd, J. Critchlow Date: Oct. 16/65

Sample No.	Remarks	Soil	Silt	Water		THM ppm	hxCu ppm	cxCu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Co	
92N - 1E		✓					200									
-2E		✓					30									
3E		✓					100									
4E		✓					400									
5E		✓					10									
6E		✓					30									
7E		✓					30									
8E		✓					80									
9E		✓					100									
10E		✓					+500									
11E		✓					30									
12E		✓					40									
13E		✓					50									
14E		✓					250									
15E		✓					100									
16E		✓					50									
17E		✓					125									
18E		✓					200									
19E		✓					175									
20E		✓					60									

CHAPMAN WOOD & GRISWOLD LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by Addison

Method data hot ex. Cu – biquinoline

Project Keevil Mining Group

Analyst L. Hurd
J. Critchlow

Date: Oct. 16/65

Sample No.	Remarks	Soil	Silt	Water		THM ppm	hxCu ppm	cxCu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Co	
92N-1W		✓					175									
2W		✓					20									
3W		✓					10									
4W		✓					50									
5W		✓					20									
6W		✓					30									
7W		✓					20									
8W		✓					10									
9W		✓					20									
10W		✓					150									
11W		✓					100									
12W		✓					100									
13W		✓					300									
14W		✓					300									
15W		✓					400									
16W	no sample - swamp	✓														
17W		✓					200									
18W		✓					150									
19W		✓					80									
20W		✓					50									

CHAPMAN WOOD & GRISWOLD LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by: Addison
Project: Keevil Mining Group
Method data: hot ex. Cu – biquinoline
Analyst: L. Hurd, J. Critchlow
Date: Oct. 9/65

Sample No.	Remarks	Soil	Silt	Water		THM ppm	hxCu ppm	cxCu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Co	
96 N-1E	samples - .3 gm	✓					200									
-2E		✓					10									
-3E		✓					20									
-4E		✓					50									
-5E		✓					40									
-6E		✓					200									
-7E		✓					40									
-8E		✓					80									
-9E		✓					200									
-10E		✓					80									
-11E		✓					yellow									
-12E		✓					60									
-13E		✓					100									
-14E		✓					150									
-15E		✓					40									
-16E		✓					300									
-17E		✓					30									
-18E		✓					100									
-19E		✓					400									
-20E		✓					300									
		✓														

CHAPMAN WOOD & GRISWOLD LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by Addison

Method data hot ex Cu - biquinoline

Project Keevil Mining Group

Analyst L. Hurd
J. Critchlow

Date: Oct. 13/65

Sample No.	Remarks	Soil	Silt	Water		THM ppm	hxCu ppm	cxCu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Co	
96N - 1W		✓					400									
- 2W		✓					90									
- 3W		✓					350									
- 4W		✓					150									
- 5W		✓					100									
- 6W		✓					80									
- 7W		✓					500									
- 8W		✓					100									
- 9W		✓					+500									
- 10W		✓					60									
- 11W		✓					40									
- 12W		✓					20									
- 13W		✓					40									
- 14W		✓					30									
- 15W		✓					60									
- 16W		✓					60									
- 17W		✓					40									
- 18W		✓					80									
- 19W		✓					250									
- 20W		✓					300									

CHAPMAN WOOD & GRISWOLD LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by Addison

Method data hot ex. Cu - biquinoline

Project Keevil Mining Group

Analyst L. Hurd
J. Critchlow

Date: Oct. 19/65

Sample No.	Remarks	Soil	Silt	Water		THM ppm	hxCu ppm	cxCu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Co	
100N - 1E		✓					150									
2E		✓					+500									
3E		✓					70									
4E		✓					40									
5E		✓					125									
6E		✓					80									
7E		✓					80									
8E		✓					70									
9E		✓					150									
10E		✓					10									
11E		✓					400									
12E		✓					175									
13E		✓					60									
14E		✓					60									
15E		✓					500									
16E		✓					150									
17E		✓					100									
18E		✓					+500									
19E		✓					175									
20E		✓					200									

CHAPMAN WOOD & GRISWOLD LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by Addison

Method data hot ex. Cu – biquinoline

Project Keevil Mining Group

Analyst L. Hurd, I. Critchlow

Date: Oct. 19/65

Sample No.	Remarks	Soil	Silt	Water		THM ppm	hxCu ppm	cxCu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Co	
100N - 1W		✓					300									
-2W		✓					50									
3W		✓					30									
4W		✓					100									
5W		✓					40									
6W		✓					60									
7W		✓					60									
8W		✓					10									
9W		✓					150									
10W		✓					100									
11W		✓					200									
12W		✓					5									
13W		✓					10									
14W		✓					+500									
15W		✓					+500									
16W		✓					200									
17W		✓					30									
18W		✓					30									
19W		✓					40									
20W		✓					40									

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CHAPMAN WOOD & GRISWOLD LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by Addison

Project Keevil Mining Group

Method data hot ex - Cu biquinoline

Analyst L. Hurd
J. Critchlow

Date: Oct. 13/65

Sample No.	Remarks	Soil	Silt	Water		THM ppm	hxCu ppm	cxCu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Co	
104N-1E		✓					125									
-2E		✓					60									
-3E		✓					10									
-4E		✓					150									
-5E		✓					90									
-6E		✓					80									
-7E		✓					40									
-8E		✓					50									
-9E		✓					90									
-10E		✓					50									
-11E		✓					40									
-12E		✓					500									
-13E		✓					10									
-14E		✓					30									
-15E		✓					5									
-16E		✓					50									
-17E		✓					40									
-18E		✓					20									
-19E		✓					+500									
-20E		✓					+500									

C C C

CHAPMAN WOOD & GRISWOLD LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by Addison

Project Keevil Mining Group

Method data hot ex - Cu biquinoline

Analyst L. Hurd
J. Critchlow

Date: Oct. 21/65

Sample No.	Remarks	Soil	Silt	Water		THM ppm	hxCu ppm	cxCu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Co	
104N-1W							100									
-2W							380									
-3W							50									
-4W							40									
-5W							40									
-6W							50									
-7W							90									
-8W							100									
-9W							50									
-10W							30									
-11W							20									
-12W							100									
-13W							130									
-14W							80									
-15W							<5									
-16W							30									
-17W							70									
-18W							50									
-19W							<5									
-20W							30									

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CHAPMAN WOOD & GRISWOLD LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by Addison

Method data hot ex. Cu - biquinoline

Project Keevil Mining Group

Analyst L. Hurd
J. Critchlow

Date: Oct. 19/65

Sample No.	Remarks	Soil	Silt	Water		THM ppm	hxCu ppm	cxCu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Co	
108- 1E		✓					500									
2E		✓					20									
3E		✓					25									
4E		✓					20									
5E		✓					<5									
6E		✓					100									
7E		✓					20									
8E		✓					100									
9E		✓					60									
10E		✓					20									
11E		✓					60									
12E		✓					50									
13E		✓					>500									
14E		✓					125									
15E		✓					20									
16E		✓					<5									
17E		✓					10									
18E		✓					<5									
19E		✓					Yellow									
20E		✓					100									

CHAPMAN WOOD & GRISWOLD LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by Addison

Method data hot ex. Cu - biquinoline

Project Keevil Mining Group

Analyst L. Hurd
J. Critchlow

Date: Oct. 19/65

Sample No.	Remarks	Soil	Silt	Water		THM ppm	hxCu ppm	cxCu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Co	
108N - 1W		✓					100									
2W		✓					80									
3W		✓					90									
4W		✓					60									
5W		✓					50									
6W		✓					30									
7W		✓					20									
8W		✓					100									
9W		✓					40									
10W		✓					300									
11W		✓					60									
12W		✓					80									
13W		✓					30									
14W		✓					250									
15W		✓					80									
16W		✓					100									
17W		✓					40									
18W		✓					20									
19W		✓					80									
20W		✓					30									

CHAPMAN WOOD & GRISWOLD LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by Addison Project Keevil Mining Group

Method data hot ex - Cu biquinoline Analyst L. Hurd, F. Crotchlow Date: Oct. 30/65

Sample No.	Soil	Silt	Water	THM ppm	hxCu ppm	cxCu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Co
112 N - 1E	✓				80								
-2E	✓				400								
-3E	✓				400								
-4E	✓				900								
-5E	✓				500								
-6E	✓				20								
-7E	✓				<5								
-8E	✓				10								
-9E	✓				40								
-10E	✓				40								
-11E	✓				100								
-12E	✓				80								
-13E	✓				90								
-14E	✓				50								
-15E	✓				<5								
-16E	✓				yellow								
-17E	✓				yellow								
18E	✓				30								
-19E	✓				20								

CHAPMAN WOOD & GRISWOLD LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by Addison Project Keevil Mining Group

Method data hot etc Cu biquincline Analyst L. Hard J. Critchlow Date: Oct. 30/65

Sample No.	Remarks	Soil	Silt	Water		THM ppm	hxCu ppm	cxCu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Co	
112N - 1W		✓					150									
2W		✓					80									
3W		✓					70									
4W		✓					20									
5W		✓					50									
6W		✓					40									
7W		✓					60									
9W		✓					30									
10W		✓					175									
11W		✓					25									
12W		✓					30									
13W		✓					90									
14W		✓					20									
15W		✓					20									
16W		✓					<5									
17W		✓					50									
18W		✓					10									
19W		✓					<5									
20W		✓					70									

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CHAPMAN WOOD & GRISWOLD LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by Addison Project Keevil Mining Group

Method data hot ex. Cu biquinoline Analyst A. Hurd, J. Critchlow Date: Oct. 31/65

Sample No.	Remarks	Soil	Silt	Water		THM ppm	hxCu ppm	cxCu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Co	
116N-1E		✓					230									
-2E		✓					1000									
-3E		✓					200									
-4E		✓					120									
-5E		✓					60									
-6E		✓					200									
-7E		✓					200									
-8E		✓					800									
-9E		✓					10									
-10E		✓					40									
-11E		✓					125									
-12E		✓					-									
-13E		✓					150									
-14E		✓					yellow									
-15E		✓					200									
-16E		✓					80									
-17E		✓					40									
-18E		✓					60									
-19E		✓					yellow									
-20E		✓					1000									

CHAPMAN WOOD & GRISWOLD LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by Addison — Project Keevil Mining Group

Method data hot ex. Cu-biquinoline — Analyst L. Hurd, J. Critchlow — Date: Oct. 31/65

Sample No.	Remarks	Soil	Silt	Water		THM ppm	hxCu ppm	exCu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Co	
116N - 1W							90									
2W							50									
3W							80									
4W							30									
5W							900									
6W							80									
7W							10									
8W							80									
9W							40									
10W							300									
11W							10									
12W							15									
13W							90									
14W							10									
15W							40									
16W							100									
17W							60									
18W							70									
19W							110									
20W							100									

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CHAPMAN WOOD & GRISWOLD LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by Addison Project Keevil Mining Group

Method data. hot ex Cu – biquinoline Analyst L. Hurd Date: Oct. 31/65

J. Critchlow

Sample No.	Remarks	Soil	Silt	Water		THM ppm	hxCu ppm	cxCu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Co	
120N - 1E		✓					60									
2E		✓					40									
3E		✓					50									
4E		✓					+1000									
5E		✓					800									
6E		✓					1000									
7E		✓					400									
8E		✓					90									
9E		✓					30									
10E		✓					1000									
11E		✓					900									
12E		✓					1000									
13E		✓					300									
14E		✓					180									
15E		✓					50									
16E		✓					80									
17E		✓					360									
18E		✓					500									
19E		✓					300									
20E		✓					400									

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CHAPMAN WOOD & GRISWOLD LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by Addison — Project Keevil Mining Group

Method data hot ex Cu — biquinoline — Analyst L. Hurd, J. Critchlow — Date: Nov. 8/65

Sample No.	Remarks	Soil	Silt	Water		THM ppm	hxCu ppm	cxCu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Co	
120N-1W		✓					250									
2W		✓					100									
3W		✓					500									
4W		✓					50									
5W		✓					100									
6W		✓					20									
7W		✓					250									
8W		✓					40									
9W		✓					10									
10W		✓					40									
11W		✓					5									
12W		✓					250									
13W		✓					25									
14W		✓					40									
15W		✓					30									
16W		✓					30									
17W		✓					150									
18W		✓					80									
19W		✓					150									
20W		✓					70									

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CHAPMAN WOOD & GRISWOLD LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by Addison Project Keevil Mining Group

Method data Carbonate fusion: molybdenum Analyst L. Hurd Date: Nov. 16/65

Sample No.	Remarks	Soil	Silt	Water		THM ppm	hxCu ppm	cxCu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Co	
24N - 1E												~~<.5~~				
2E												<.5				
3E																
4E												<.5				
5E																
6E												.8				
7E																
8E												3.2				
9E												~~.8~~				
10E												.8				
24N - 1W																
2W												<.5				
3W																
4W												3.2				
5W																
6W												<.5				
7W																
8W												3.2				
9W																
10W												<.5				

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CHAPMAN WOOD & GRISWOLD LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by Addison Project Keevil Mining Group

Method data Carbonate fusion - molybdenum Analyst L. Hurd Date: Nov. 16/65

Sample No.	Remarks	Soil	Silt	Water		THM ppm	hxCu ppm	cxCu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Co	
32N - 1E																
2E												<.5				
3E																
4E												3.2				
5E																
6E												<.5				
7E																
8E												<.5				
9E																
10E												<.5				
32N - 1W																
2W												2.4				
3W																
4W												.8				
5W																
6W												<.5				
7W																
8W												3.2				
9W																
10W												<.5				

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CHAPMAN WOOD & GRISWOLD LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by Addison Project Keevil Mining Group

Method data carbonate fusion - molybdenum Analyst L. Hurd Date: Nov. 16/65

Sample No.	Remarks	Soil	Silt	Water		THM ppm	hxCu ppm	cxCu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Co	
40N- 1E																
2E												2.4				
3E																
4E												<.5				
5E																
6E												1.6				
7E																
8E												<.5				
9E																
10E												<.5				
40N- 1W																
2W												<.5				
3W																
4W												4				
5W																
6W												<.5				
7W																
8W												<.5				
9W																
10W												6.4				

CHAPMAN WOOD & GRISWOLD LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by Addison

Project Keewil Mining Group

Method data Carbonate fusion - molybdenum

Analyst L. Hurd Date: Nov. 12/65

Sample No.	Remarks	Soil	Silt	Water		THM ppm	hxCu ppm	cxCu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Co	
48N-1E																
2E												<.5				
3E																
4E												<.5				
5E																
6E												18				
7E																
8E												<.5				
9E																
10E												<.5				
48N-2W												<.5				
3W																
4W												<.5				
5W																
6W												<.5				
7W																
8W												<.5				
9W																
10W												<.5				

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CHAPMAN WOOD & GRISWOLD LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by Addison Project Keewil Mining Group

Method data Carbonate fusion molybdenum Analyst L. Hurd Date: Nov. 17/65

Sample No.	Remarks	Soil	Silt	Water		THM ppm	hxCu ppm	cxCu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Co	
56N - 1E																
2E												<5				
3E																
4E												<5				
5E																
6E												<5				
7E																
8E												12				
9E																
10E												12				
56N - 1W																
2W												<5				
3W																
4W												<5				
5W																
6W												<5				
7W																
8W												<5				
9W																
10W												<5				

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CHAPMAN WOOD & GRISWOLD LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by Addison

Project Keevil Mining Group

Method data Carbonate fusion - molybdenum

Analyst L. Hurd

Date: Nov. 17/65

Sample No.	Remarks	Soil	Silt	Water		THM ppm	hxCu ppm	cxCu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Co	
64N - 1E																
2E												<5				
3E																
4E												.8				
5E																
6E												<5				
7E																
8E												<5				
9E																
10E												<5				
11E																
12E												<5				
13E																
14E												<5				
15E																
16E												<5				
17E																
18E												18				
64N - 1W																
2W												<5				
3W																
4W												<5				
5W																

CHAPMAN WOOD & GRISWOLD LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by Addison

Project Keevil Mining Group

Method data Carbonate fusion - molybdenum

Analyst L. Hurd

Date: Nov 17/65

Sample No.	Remarks	Soil	Silt	Water		THM ppm	hxCu ppm	cxCu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Co	
64N-6W												<.5				
7W																
8W												<.5				
9W																
10W												<.5				
11W																
12W												<.5				
13W																
14W												<.5				
15W																
16W												<.5				
17W																
18W												<.5				

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CHAPMAN WOOD & GRISWOLD LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by Addison

Project Keevil Mining Group

Method data Carbonate fusion - molybdenum

Analyst L. Hurd

Date: Nov. 17/65

Sample No.	Remarks	Soil	Silt	Water		THM ppm	hxCu ppm	cxCu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Co	
72N-1E																
-2E												<.5				
-3E																
4E												<5				
5E																
6E												.8				
7E																
8E												<.5				
9E																
10E												.8				
11E																
12E												.8				
13E																
14E												<.5				
15E																
16E												4				
17E																
18E												1.6				
19E																
20E												.8				

CHAPMAN WOOD & GRISWOLD LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by Addison

Project Keevil Mining Group

Method data Carbonate fusion - molybdenum

Analyst L. Hurd

Date: Nov. 17/65

Sample No.	Remarks	Soil	Silt	Water		THM ppm	hxCu ppm	cxCu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Co	
72N - 1W																
2W												<.5				
3W																
4W												<.5				
5W																
6W												<.5				
7W																
8W												<.5				
9W																
10W												<.5				
11W																
12W												<.5				
13W																
14W												<.5				
15W																
16W												<.5				
17W																
18W												<.5				
19W																
20W												.8				

CHAPMAN WOOD & GRISWOLD LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by Addison

Project Keevil Mining Group

Method data Carbonate fusion - molybdenum

Analyst L. Hurd

Date: Nov. 18/65

Sample No.	Remarks	Soil	Silt	Water		THM ppm	hxCu ppm	cxCu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Co	
BON-1E																
2E												<.5				
3E																
4E												<.5				
5E																
6E												<.5				
7E																
8E												<.5				
9E																
10E												<.5				
11E																
12E												4				
13E																
14E												6.4				
15E																
16E												18				
17E																
18E												8				
19E																
20E												5.6				

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CHAPMAN WOOD & GRISWOLD LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by Addison

Project Keevil Mining Group

Method data Carbonate fusion - molybdenum

Analyst L Hurd Date: Nov. 18/65

Sample No.	Remarks	Soil	Silt	Water		THM ppm	hxCu ppm	cxCu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Co	
50N-1W																
2W												<.5				
3W																
4W												brown				
5W																
6W												<.5				
7W																
8W												<.5				
9W																
10W												.8				
11W																
12W												brown				
13W																
14W												<.5				
15W																
16W												<.5				
17W																
18W												.8				
19W																
20W												<.5				

CHAPMAN WOOD & GRISWOLD LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by Addison

Project Keevil Mining Group

Method data Carbonate fusion - molybdenum

Analyst L. Hurd

Date: Nov. 18/65

Sample No.	Remarks	Soil	Silt	Water		THM ppm	hxCu ppm	cxCu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Co	
88N-1E																
2E												4				
3E																
4E												2.4				
5E																
6E												1.6				
7E																
8E												<1.5				
9E																
10E												<1.5				
11E																
12E												<1.5				
13E																
14E												.8				
15E																
16E												<1.5				
17E																
18E												4				
19E																
20E												<5				

CHAPMAN WOOD & GRISWOLD LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by Addison

Project Keevil Mining Group

Method data Carbonate fusion - molybdenum

Analyst L. Hurd

Date: Nov. 18/65

Sample No.	Remarks	Soil	Silt	Water		THM ppm	hxCu ppm	cxCu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Co	
88N-1W																
2W												2.4				
3W																
4W												<.5				
5W																
6W												<.5				
7W																
8W												<.5				
9W																
10W												<.5				
11W																
12W												.8				
13W																
14W												<.5				
15W																
16W												<.5				
17W																
18W												<.5				
19W																
20W												<.5				

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CHAPMAN WOOD & GRISWOLD LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by Addison

Project Keevil Mining Group

Analyst L. Hurd

Date: Nov. 19/65

Method data

carbonate fusion - molybdenum

Sample No.	Remarks	Soil	Silt	Water		THM ppm	hxCu ppm	cxCu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Co	
96N - 1E																
2E												<.5				
3E																
4E												<.5				
5E																
6E												1.6				
7E																
8E												.8				
9E																
10E												2.4				
11E																
12E												brown				
13E																
14E												<.5				
15E																
16E												<.5				
17E																
18E												.8				
19E																
20E												<.5				

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CHAPMAN WOOD & GRISWOLD LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by Addison

Project Keevil Mining Group

Method data carbonate fusion - molybdenum

Analyst L. Hurd Date: Nov. 19/65

Sample No.	Remarks	Soil	Silt	Water		THM ppm	hxCu ppm	cxCu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Co	
96N - 1W																
2W												12				
3W																
4W												.8				
5W																
6W												<.5				
7W																
8W												<.5				
9W																
10W												<.5				
11W																
12W												<.5				
13W																
14W												<.5				
15W																
16W												<.5				
17W																
18W												<.5				
19W																
20W												<.5				

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CHAPMAN WOOD & GRISWOLD LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by Addison

Project Keevil Mining Group

Method data Carbonate fusion - molybdenum

Analyst L. Hurd Date: Nov. 19/65

Sample No.	Remarks	Soil	Silt	Water		THM ppm	hxCu ppm	cxCu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Co	
104N - 1E																
2E												<.5				
3E																
4E												<.5				
5E																
6E												2.4				
7E																
8E												<.5				
9E																
10E												.8				
11E																
12E												<.5				
13E																
14E												<.5				
15E																
16E												<.5				
17E																
18E												<.5				
19E																
20E												1.6				

C C C

CHAPMAN WOOD & GRISWOLD LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by Addison

Project Keevil Mining Group

Method data Carbonate fusion - molybdenum

Analyst L. Hurd

Date: Nov. 19/65

Sample No.	Remarks	Soil	Silt	Water		THM ppm	hxCu ppm	exCu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Co	
104N- 1 W																
2 W												<.5				
3 W																
4 W												4				
5 W																
6 W												<.5				
7 W																
8 W												<.5				
9 W																
10 W												<.5				
11 W																
12 W												1.6				
13 W																
14 W												<.5				
15 W																
16 W												<.5				
17 W																
18 W												<.5				
19 W																
20 W												<.5				

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Project Keevil Mining Group

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Analyst L. Hurd Date: Nov. 20/65

Sample No.	Remarks	Soil	Silt	Water		THM ppm	hxCu ppm	cxCu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Co	
112N-1E																
2E												1.6				
3E																
4E												3.2				
5E																
6E												.8				
7E																
8E												<.5				
9E																
10E												<.5				
11E																
12E												4.8				
13E																
14E												<5				
15E																
16E												brown				
17E																
18E																
19E												<.5				
20E																

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REPORT OF GEOCHEMICAL ANALYSIS

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Project Keevil Mining Group

Method data Carbonate fusion molybdenum

Analyst L. Hurd

Date: Nov. 20/65

Sample No.	Remarks	Soil	Silt	Water		THM ppm	hxCu ppm	cxCu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Co	
112N. 1W																
2W												<.5				
3W																
4W												1.6				
5W																
6W												.8				
7W																
8W												—				
9W																
10W												<.5				
11W																
12W												<.5				
13W																
14W												.8				
15W																
16W												.8				
17W																
18W												<.5				
19W																
20W												<.5				

C C C

CHAPMAN WOOD & GRISWOLD LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by Addison

Project Keevil Mining Group

Method data Carbonate fusion - molybdenum

Analyst L. Hurd Date: Nov. 20/65

Sample No.	Remarks	Soil	Silt	Water		THM ppm	hxCu ppm	cxCu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Co	
120N-1E																
2E												<.5				
3E																
4E												5.6				
5E																
6E												3.2				
7E																
8E												2.4				
9E																
10E												4				
11E																
12E												4				
13E																
14E												<.5				
15E																
16E												<.5				
17E																
18E												<.5				
19E																
20E												brown				

CHAPMAN WOOD & GRISWOLD LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by Addison

Project Keevil Mining Group

Method data Carbonate fusion - molybdenum

Analyst L. Hurd

Date: Nov. 20/65

Sample No.	Remarks	Soil	Silt	Water		THM ppm	hxCu ppm	cxCu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Co	
120N-1W																
2W												.8				
3W																
4W												1.6				
5W																
6W												<.5				
7W																
8W												.8				
9W																
10W												<.5				
11W																
12W												1.6				
13W																
14W												<.5				
15W																
16W												<.5				
17W																
18W												.8				
19W																
20W												<.5				

CHAPMAN WOOD & GRISWOLD LTD.

REPORT OF GEOCHEMICAL ANALYSIS

Samples submitted by Addison

Project Keevil Mining Group

Method data Carbonate fusion - molybdenum

Analyst L. Hurd

Date: Nov. 20/65

Sample No.	Remarks	Soil	Silt	Water		THM ppm	hxCu ppm	cxCu ppm	Pb ppm	Zn ppm	Be	Mo	Sn	Ni	Co	
BL-24N												4				
32N												2.4				
40N												.8				
48N												5.6				
56N												.8				
64N												3.2				
72N												1.6				
80N												3.2				
88N												6.4				
96N												24				
104N												1.6				
112N												.8				
120N												.8				

APPENDIX

Cu 100-499ppm
Cu >500ppm

TO ACCOMPANY GEOCHEMICAL REPORT BY R S ADDISON, P.Eng., ON THE GM CLAIMS, ON GRANITE MOUNTAIN, CARIBOO M.D., DATED NOV. 30, 1965.

744 (M1)

KEEVIL MINING GROUP LTD.

GM CLAIMS

CARIBOO MINING DIVISION B.C.

GEOCHEMICAL SURVEY-SOIL SAMPLING

LEGEND

500 COPPER ppm hx BIQUINOLINE

s MOLYBDENUM ppm CARBONATE FUSION

0 400 800 1200ft

CW & G Ltd.

Drwg. No.: 451
DATE: Nov. 26/65