

4729

GEOLOGICAL, GEOCHEMICAL & GEOPHYSICAL

REPORT

PIN CLAIMS - CARIBOO MINING DIVISION

B. C.

DATE: NOVEMBER 1973

LOCATION: Lot 51° 49'

Long 125° 02'

2½ Miles East of Perkins Peak

NTS - 92N

On Behalf of

CITIES SERVICE MINERALS CORPORATION

405 - 1200 WEST PENDER ST.

VANCOUVER 1, B. C.

By

Department of
Mines and Petroleum Resources

ASSESSMENT REPORT

NO. **4729** MAD.

J. W. MURTON, P. ENG.

Figure E. INDEX MAP TO PROPERTIES IN NTG FILE

SCALE 1" = 36 MILES

FIG. 1.

4729 M/

TABLE OF CONTENTS

	<u>PAGES</u>
INTRODUCTION	1
LOCATION, ACCESS & PHYSIOGRAPHY	1
CONTROL GRID	1
GEOLOGY AND MINERALIZATION	1 & 2
MAGNETIC SURVEY	3
GEOCHEMICAL SURVEY	3 & 5
INDUCED POLARIZATION SURVEY	5 & 7
SUMMARY & CONCLUSIONS	7
DECLARATION OF EXPENSES	9
CERTIFICATION	10

Illustrations:

Fig. 1 #1	Frontispiece	Scale 1" = 36 miles
Fig. 2 #2	Claim Map	Scale 1" = 800'
Fig. 3 #3	Geological Plan	Scale 1" = 800'
Fig. 4 #4	Magnetic Plan	Scale 1" = 400'
Fig. 5 #5	Geochemical Plan Cu	Scale 1" = 400'
Fig. 5A #6	Geochemical Plan As	Scale 1" = 400'
Fig. 6 #7	I. P. Survey - Plan % F.E.	Scale 1" = 400'
Fig. 6A #8	I. P. Survey - Plan Res.	Scale 1" = 400'
Fig. 7-15#9-17	I.P. Survey - Pseudosections	Scale 1" = 400'

INTRODUCTION:

Pin 1-88 claims were staked during July 5-8, 1973 and Pin 89-106 were staked on July 24, 1973, to cover an area of malachite and chalcopyrite float located in reconnaissance prospecting of a large gossan area in Chromium Creek Valley. Subsequent to the claim staking, geochemical, magnetic, geological and I.P. surveys were undertaken to evaluate the ground.

LOCATION, ACCESS AND PHYSIOGRAPHY:

The claims are located in the Cariboo Mining Division, approximately 125 air miles west southwest from Williams Lake at Lat. $51^{\circ} 49'$ - Long. $125^{\circ} 02'$. Access is by way of gravel road from Williams Lake to Tatla Lake and thence by helicopter to the claims which lie to the east of Perkins Peak.

Elevations range from 5200' to 5700' above sea level with topography varying from treeless alpine meadow to precipitous peaks. Chromium Creek traverses the claims. Large areas of talus and glacial debris mask underlying bedrock.

CONTROL GRID:

Chained and flagged baselines were established in a true E-W direction at right angles to the claim lines as shown on the enclosed maps, and similar cross lines were established to parallel claim lines at 60W, 52W, 36W, 24W, 12W, 6W, 00, 6E, 12E, 18E, 24E, 32E, 36E, E and S.E. Chainage markers were placed every 200', and all lines were compass controlled.

GEOLOGY AND MINERALIZATION:

The area is underlain by andesite, tuffaceous andesites, andesitic breccia, some maroon agglomerate and maroon tuff and minor basalt as well as rhyolite-dacite, all of which are mapped by Tipper as of Hauterivian age. Although no intrusive is exposed in the area, mild baking effect and a few hornfels-like outcrops in the western part of the area were observed on the ridge south of Chromium Valley. Andesite, tuffaceous andesite and andesitic tuff are mostly green or greenish gray and fine grained. A porphyritic variety of andesite was noted at several/

several locations. Many of the andesitic outcrops are chloritized and contain veinlets of epidote. However, the outcrops along Chromium Creek and on the ridge south of it, presumably andesitic, are medium gray, highly silicic, hard and much fractured.

A prominent shear running N.70E with moderate dip towards the S.E. traverses the area from Chromium Valley to the hill north of the base line near the malachite float area. Along the entire length of the shear, the rocks, presumably andesite, andesitic tuff and tuffaceous andesite, have been intensely altered, sericitized, slightly silicified and converted to sericite schist, which is grayish in color when freshly broken, but crumbles to grayish white flakes on weathering. Cubic cavities with limonite were noted in weathered rock, but finely disseminated grains of pyrite were found in fresh sheared rock.

The above shear is apparently cut-off by a N.60W striking fault/shear east of line 18E. This fault probably continues further northwest on lines 0 and 12W, where I.P. anomalies were obtained.

A series of parallel shears striking N80-85E are suspected traversing the lower part of the Chromium Creek. These have converted the local rocks into highly altered schistose, sericite-rich rock. It is not known how far these shears continue, but disseminated grains of pyrite were also observed in the outcrops along the creek.

The malachite float and some malachite staining on altered, epidotized andesite was located in the eastern half and central parts of the staked area comprising a NE-trending hill and an E-W trending ridge. The malachite float, associated often with magnetite, was later on traced to the upper slopes of the ridge south of the base line between lines 0 and 24E, where several outcrops show mild shearing and epidotisation of the tuffaceous andesite. Such outcrops are often/

often traversed by veinlets of quartz, with or without carbonate, epidote and chlorite along the fractures and at times along indistinct bedding planes exhibiting slip effect. Chalcopyrite was also found as disseminations in the altered andesite near the fractures.

MAGNETIC SURVEY:

A ground magnetic survey was conducted with a Scintrex Model MF-2 Fluxgate Magnetometer with readings taken at 200' intervals along the easily accessible parts of the lines. The readings were taken every 100' near stations with higher readings. The readings were corrected for diurnal variations, plotted in plan and contoured with 100 γ contour intervals. A magnetic anomaly 2,800' long and 200'-400' wide trending N 55E was obtained. The magnetic anomaly, with 1800 γ as its maximum value extends from line 6E to 24E, east of which it is offset towards the north and continues on lines 30E and 36E. Thus it is still open towards the east. In early stages of the field work, it was assumed that this anomaly indicated a magnetite-bearing shear zone, but the geological mapping outlined the shear at a distance of 500'-800' south of the magnetic anomaly.

GEOCHEMICAL SURVEY:

A total of 550 silt, soil, talus and chip samples from the rock outcrops were taken from the area for analysis by atomic absorption method. All the samples were analysed for Cu, Mo, As and Zn but a few with 100 p.p.m. Zn were also analysed for Pb and Ag.

Soil samples were collected from a depth of approximately 6" using a mattock. Where available, the "B" horizon was sampled. Notes were taken at each sample location regarding topography, soil type, depth, color, etc. Samples were packed in brown kraft paper bags and sent to Chemix Laboratories of North Vancouver for analyses. The analytical procedure involved drying, samples in an (electric)/

electric oven at 80°C for a period of 12-24 hours, then screening to -80 mesh. Rock geochemical materials were crushed, dried, and pulverized to -100 mesh. Following this, a $\frac{1}{2}$ gram sample was digested by a hot perchloric-nitric acid mixture for 2-3 hours, then analysed for total copper, molybdenum, gold and zinc, after diluting samples to 25 mls using demineralized water, using a Techtron AA.5. Atomic Absorption Unit. A 5 gram sample of prepared rock material was digested to dryness with aqua-regia for ppb gold analyses. Values are reported in parts per million (p.p.m.) except gold which is reported in parts per billion (ppb).

Other than the higher values of Cu in chip samples containing stains of malachite and traces of chalcopyrite, most of the chip samples contain Cu in the range of 20 to 280 p.p.m. Some of the chip samples containing higher Cu were taken from the top of the ridge south of Chromium Valley; whereas the other location yielding chip samples with high Cu was between lines 0 and 12E south of Chromium Creek. Traces of chalcopyrite and malachite in andesitic outcrops were found in this area.

The soil samples gave generally higher values of Cu than the corresponding chip samples from the nearby outcrops. This is clearly evident from the samples taken on the ridge mentioned above. This might be due to the retention of Cu in limonite which is a major constituent of reddish-brown soil of this area. Some higher Au and Mo values were also obtained from the soil samples taken along the slopes of Chromium Valley. Two check traverses of soil and chip samples south of Chromium Valley on the ridge showed that soil samples have higher Mo content (2-4 p.p.m.) than the corresponding chip samples. The observation could be explained as due to the fixation of Mo. with limonite as ferrimolybdate under the acidic environment which prevails in the area due to the presence of considerable amount of pyrite in the rocks.

The/

The silt samples taken from the lower part of Chromium Creek returned relatively high values of Cu, Mo and Zn, with the increase in values towards the downstream side. This could be attributed to the increase in pH downstream away from pyrite-rich areas, and the consequent release of Cu and Zn from the solution. This result is not so noticeable with Zn as with Cu. Mo. could again be absorbed by precipitating iron oxides.

Although a few soil samples from Chromium Creek show relatively higher Zn values (up to 275 p.p.m.), most of the soil, silt and chip samples have fairly uniform Zn values varying from 30 to 110 p.p.m.

I. P. SURVEY:

The work described in this section was undertaken in an attempt to determine the presence of economic copper-molybdenum mineralization with low grade mineralization, a feature common to this type of deposit. Induced Polarization is one of the few direct methods capable of detecting this type of deposit.

The induced polarization equipment utilized for the survey consisted of a multi-frequency P660 unit manufactured by McPhar Geophysics of Don Mills, Ontario.

The I.P. field procedure employed a dipole-dipole array with a dipole spacing of 200 feet. Measurements were taken to the fourth separation. The frequencies utilized were .31 and 5 Hertz.

Resultant observations were plotted in a typical "pseudosection" profile form at a scale of 1" = 200 feet and are included in this report along with a plan view of N = 2 separation.

The following/

The following sections of the lines were covered by I.P. work:

Line 0	0	-	14N
" 12E	1S	-	14N
" 12W	18S	-	14N
" 24W	20S	-	14N
" 36W	1S	-	20S
" 52W	10S	-	26S
" 60W	12S	-	26S
" 40 + 40S	8E	-	10W

A total of 16,000 or 3.03 line-miles of I.P. survey were conducted on the PinGroup during Aug. 12 - Aug. 24.

All measurements taken for line limits are to the extreme data points but do not include the outermost electrode placement limits, which would add another 900 feet per line to the total line footage.

It should also be noted that the descriptions such as low resistivity, high resistivity, etc. are relative terms only.

Line 60W

A 7% - 8% F.E. anomaly occurs from 14S to 22S along a contact between medium and high resistivity rocks (372 to 1135 ohm feet).

Line 52W

A 4% - 11% F.E. anomaly occurs from 8S to line end at 16S in an area of medium resistivity.

Line 36W

A weak 5% - 6% F.E. anomaly occurs at 400 to 500' depth at the south end of the line. A contact between low and highly resistive rocks occurs at the extreme north edge of the surveyed area.

Line 24W

A deep-seated 5% - 9% F.E. anomaly occurs at the southern edge of the line and is open to the south, in an area of medium resistivity rocks.

A zone/

A zone of high resistivity occurs from 4N to 9N and appears to correspond with a zone lying parallel to Chromium Creek and approximately 500' north.

Line 12W

An anomaly up to 7.4% F.E. occurs from approximately 6N at depth to 14N, and approaches surface at 12N in a zone of low to medium resistivity rocks.

Line 00

An 8.2% F.E. anomaly occurs at 13N at depth and appears to remain open to depth. It occurs in medium resistivity rock in an area of contact between low resistivity on the south and higher resistivity rocks to the north.

Line 12E

A 4.- 7.6% F.E. anomaly occurs from 8N to 14N accompanied by medium resistivities. The high (1250 ohm feet) resistivity at 5N near surface may indicate an area of poor electrode contact in talus.

Line 40 and 40S

This line was run to investigate a ridge on which scattered chalco-pyrite and malachite was noted in outcrop of andesitic material. Extremely high resistivities characterized this area with negligible P.F.E. readings.

SUMMARY AND CONCLUSIONS:

Although no intrusive rock was located on the claim group, the high resistivities encountered, especially on line 40 + 40S, tend to indicate a skarn environment. This is confirmed by the wide-spread development of epidote in the volcanics.

The anomalous/

The anomalous readings (up to 9.2% F.E.) occurring at the west edge of the I.P. survey area represent the most attractive area for further work. This I.P. anomaly coincides with a geochemical high in an area of known shearing.

Additional I.P. work should be completed to delineate the anomalous conditions located on the ground.



J. W. Murton, P. Eng.
District Geologist



JWM/ntc

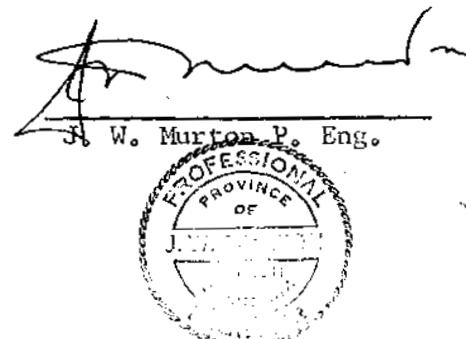
STATEMENT OF EXPENDITURE INCURRED FOR ASSESSMENT
PURPOSES ON PIN 1-106 DURING THE PERIOD
JULY 26 - AUGUST 29, 1973

PERSONNEL:

W. Murton - Supervisor & Office - 6 days @ \$70/day	420.00
Z. Mogri - Party Chief & Mapping - 21 days @ \$45/day	945.00
E. Stairs - Linechaining & prospecting - 15 days @ \$32/day	480.00
G. Bogaram - Magnetometer Operator - 8 days @ \$28/day	224.00
A. Dawson - Geological mapping - 12 days @ \$35/day	420.00
M. Booton - Linechaining & geochemistry - 20 days @ \$21/day	420.00
E. Dempster - Linechaining & geochemistry - 20 days @ \$21/day	420.00
D. Morrison - I. P. Contractor) - 12 day contract	2400.00
M. Arsenault - Operator)	
J. Parkin - I. P. Helper - 12 days @ \$21/day	252.00
B. Taylor - I. P. Helper - 12 days @ \$21/day	252.00
J. Davies - I. P. Helper - 12 days @ \$25/day	300.00
Geochemical Analysis 165 x \$4.05	668.25
Camp cost 157 man days @ \$12.00/man day	1884.00
Helicopter support 27 hours @ \$160/hour	4320.00
Miscellaneous	<u>200.00</u>
Total Claimed	\$13,605.25

Declared before me at the City
of Vancouver in the Province of British
Columbia this 22 day of September 1973 AD.

John Turner
Sub-mining Recorder



CERTIFICATION

I, J. W. Murton, of North Vancouver, British Columbia, do hereby certify that:

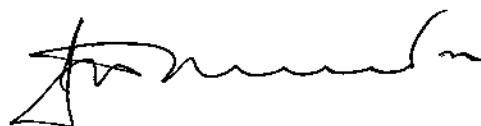
I am a member of the Association of Professional Engineers of the Province of British Columbia, registered in 1972, No. 8324.

I am a graduate of the University of Manitoba with a B.Sc. in Geology.

I have been a practising Engineer and Geologist since 1960 in Manitoba, Saskatchewan, British Columbia, South Western U.S.A. and Alaska.

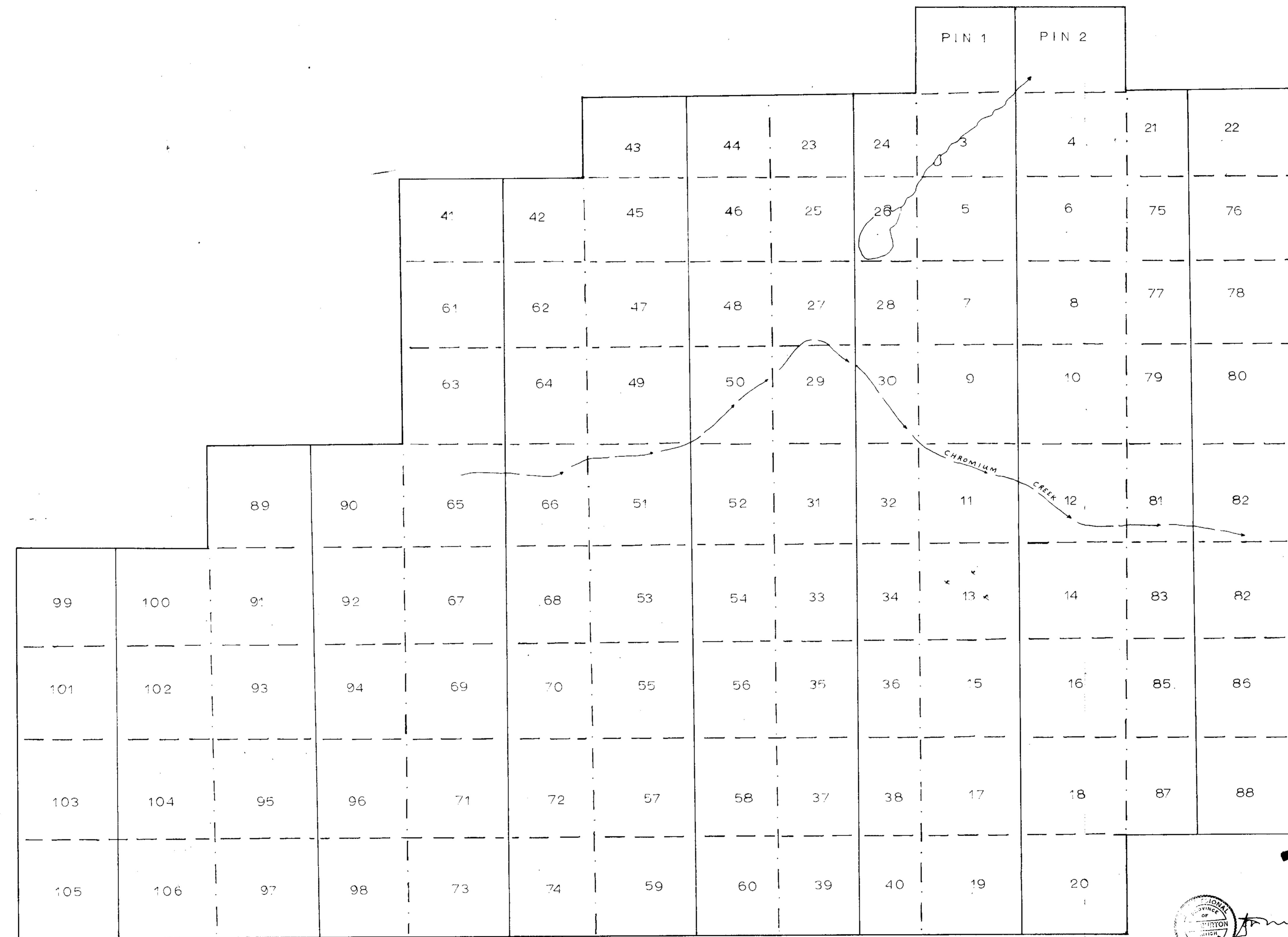
Vancouver, B. C.

November, 1973



J. W. Murton, B.Sc. P. Eng.



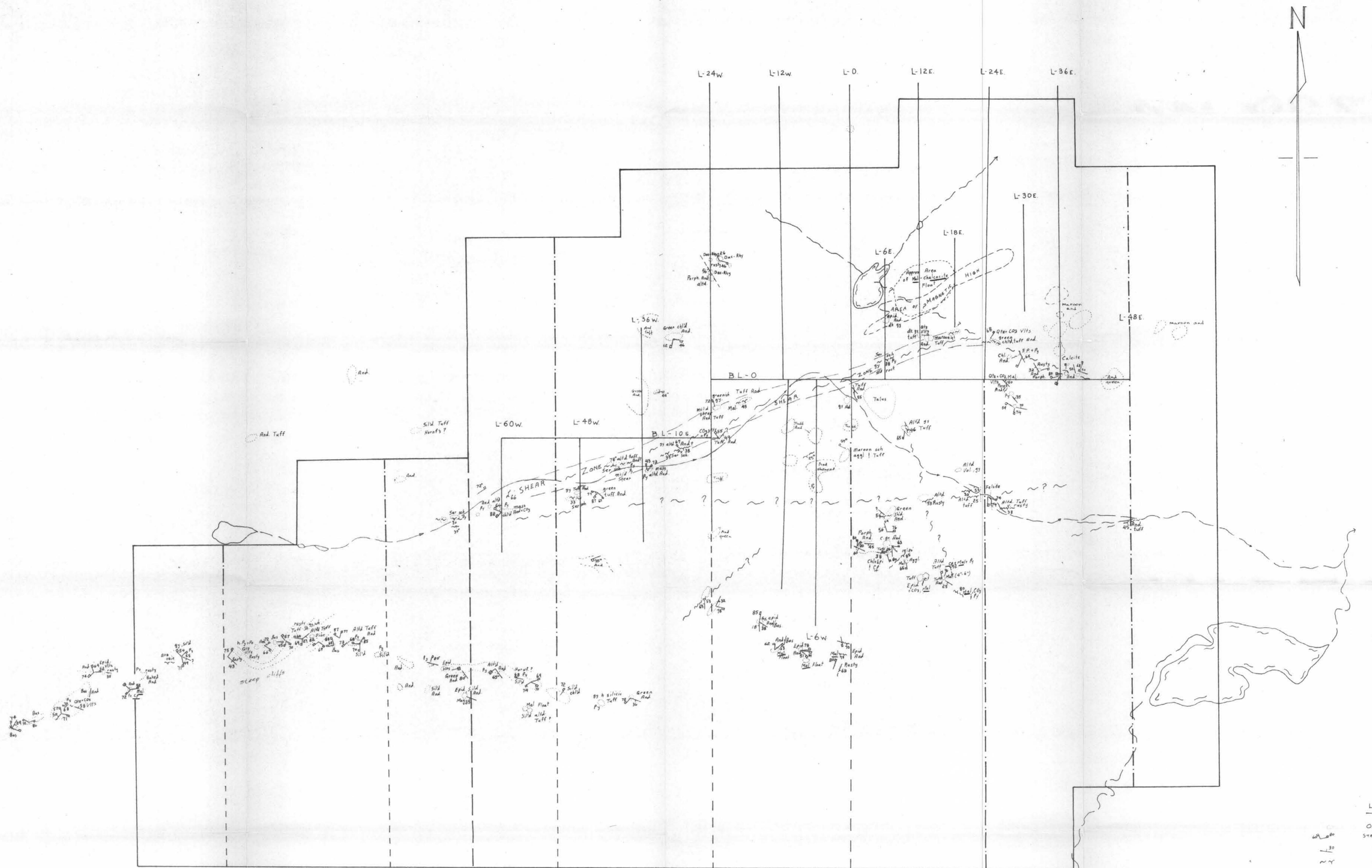


4729
M2

TO ACCOMPANY GEOLOGICAL, GEOCHEMICAL &
GEOPHYSICAL REPORT ON THE PIN CLAIMS
BY J. W. MURTON P. ENG. DATED NOVEMBER
1973 IN THE CARIBOO M. D.

CITIES SERVICE MINERALS CORP. VANCOUVER BC. CANADA	
PIN CLAIM GROUP TATLA LAKE AREA	
SCALE IN 1'-0" 800' 800' 400' 0' 800' 1600'	
DATE: NOVEMBER 1973	N.T.S. No.: 92N - 14E
DRAWN BY: W.B.L.	DRAWING No.: 2
REVISION:	
Department of Mines and Technical Resources Assessment Report	
NO. 4729 M.P.	

4729 #2



Department of
Mines and Technical Resources
NO. 4729 #3

CITIES SERVICE MINERALS
VANCOUVER BC CANADA

PIN CLAIMS - TATLA LAKE AREA

GEOLOGICAL PLAN

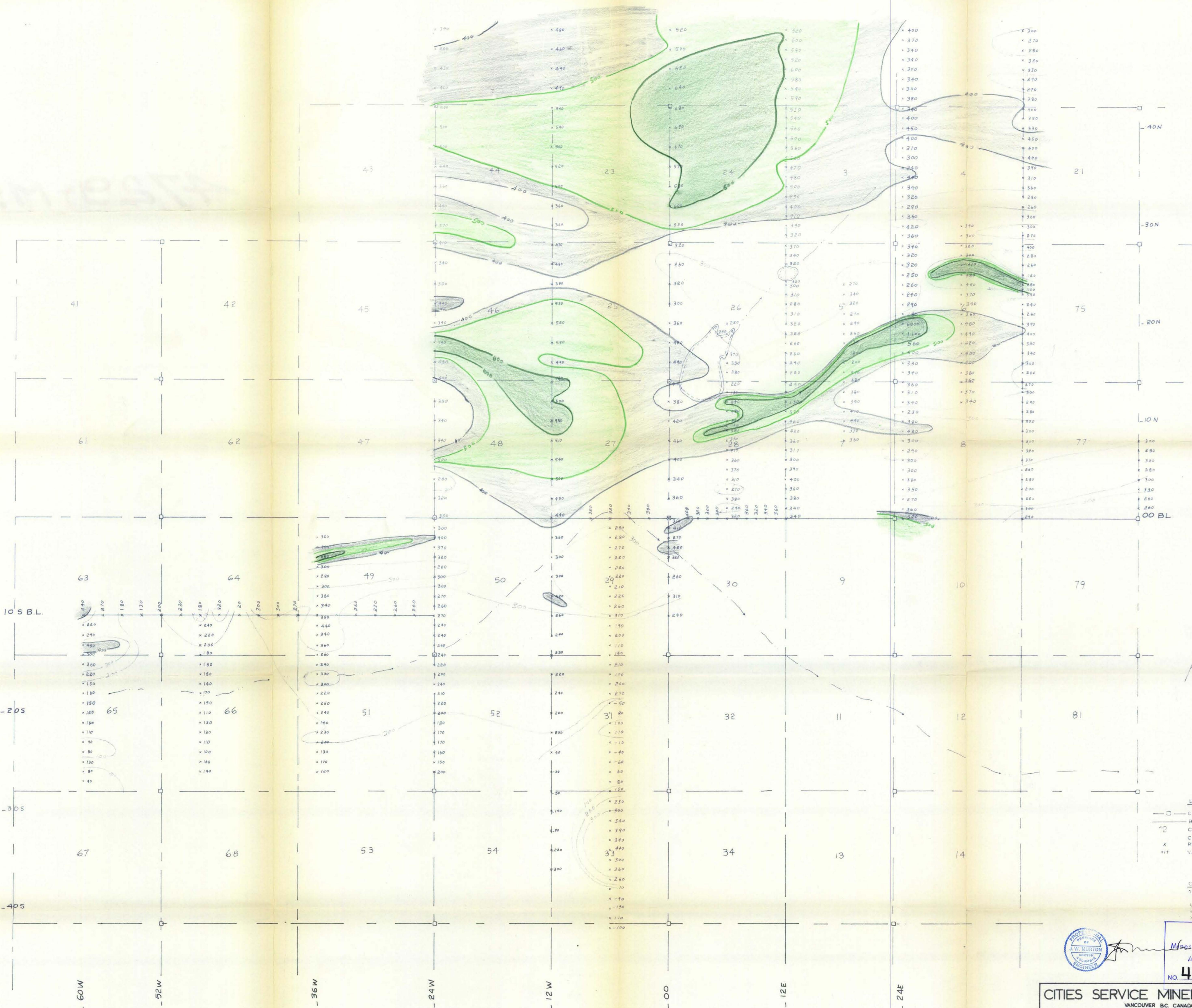
TO ACCOMPANY GEOLOGICAL
GEOCHEMICAL & GEOPHYSICAL
REPORT ON PIN CLAIMS,
CARIBOO M.D. BY J.W. MURTON
PENG., DATED NOV. 1973



SCALE IN FEET	0	400	800	1600
DATE:	NOV 1973			
DRAWN BY:	A.D.			
DRAWING NO.:	3			

REVISION:

4729 M



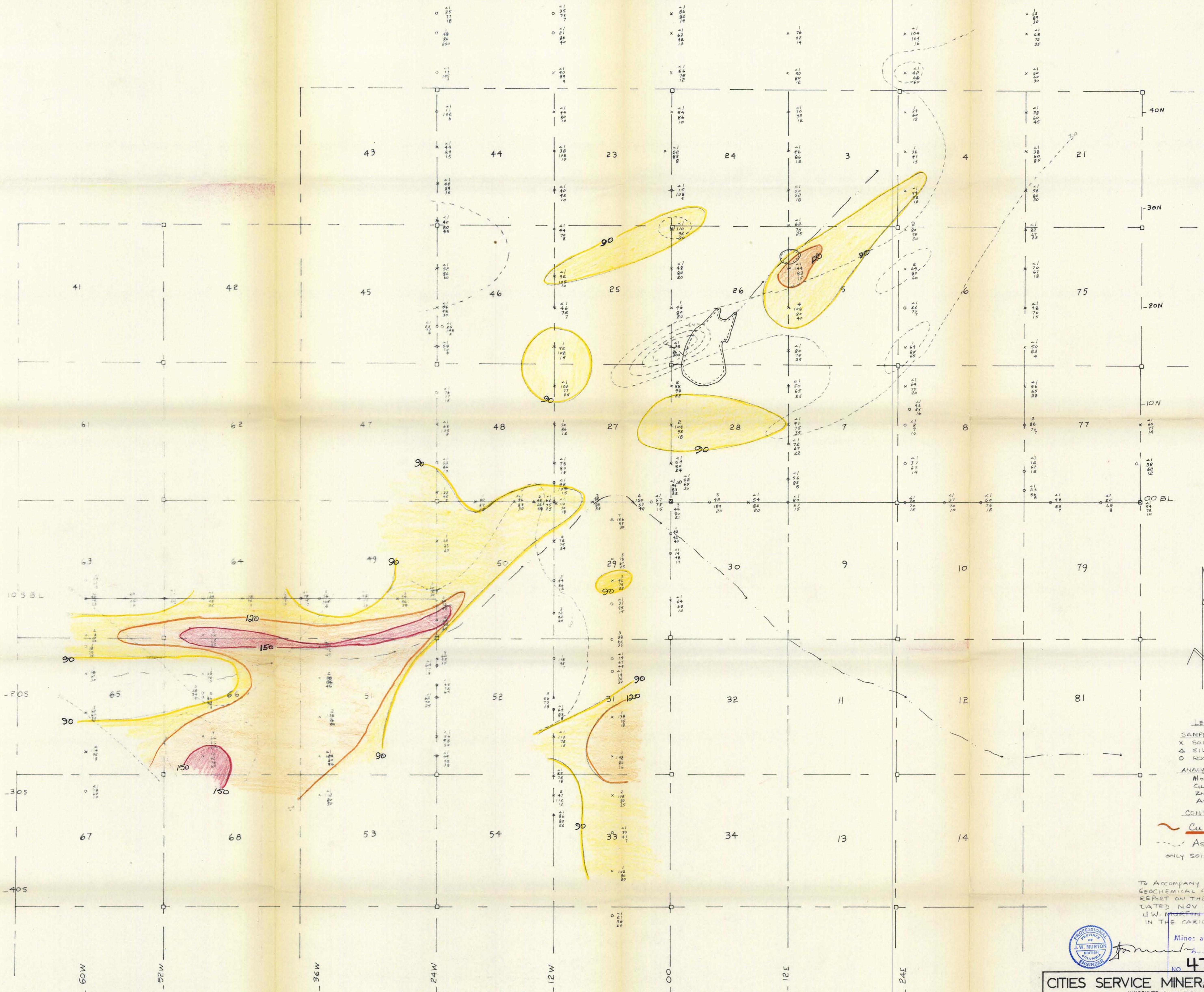
TO ACCOMPANY GEOLOGICAL, GEOCHEMICAL, & GEOPHYSICAL
REPORT ON THE PIN CLAIMS, CARIBOO M.D. BY
J.W. MURTON P.ENG. DATED NOVEMBER 1973

CITIES SERVICE MINERALS CORP.
VANCOUVER B.C. CANADA

PIN CLAIMS - TATLA LAKE
MAGNETOMETER SURVEY
PLAN VIEW

SCALE IN FEET	0 200 400 600
DATE:	SEPT 30, 1973
DRAWN BY:	J.W.M.
DRAWING NO.:	4

REVISION: 4729-M4



TO ACCOMPANY GEOLOGICAL
GEOCHEMICAL & GEOPHYSICAL
REPORT ON THE PIN CLAIMS
DATED NOV 1973 BY
J.W. MURTON F.ENG.
IN THE CARRIBOO M.D.

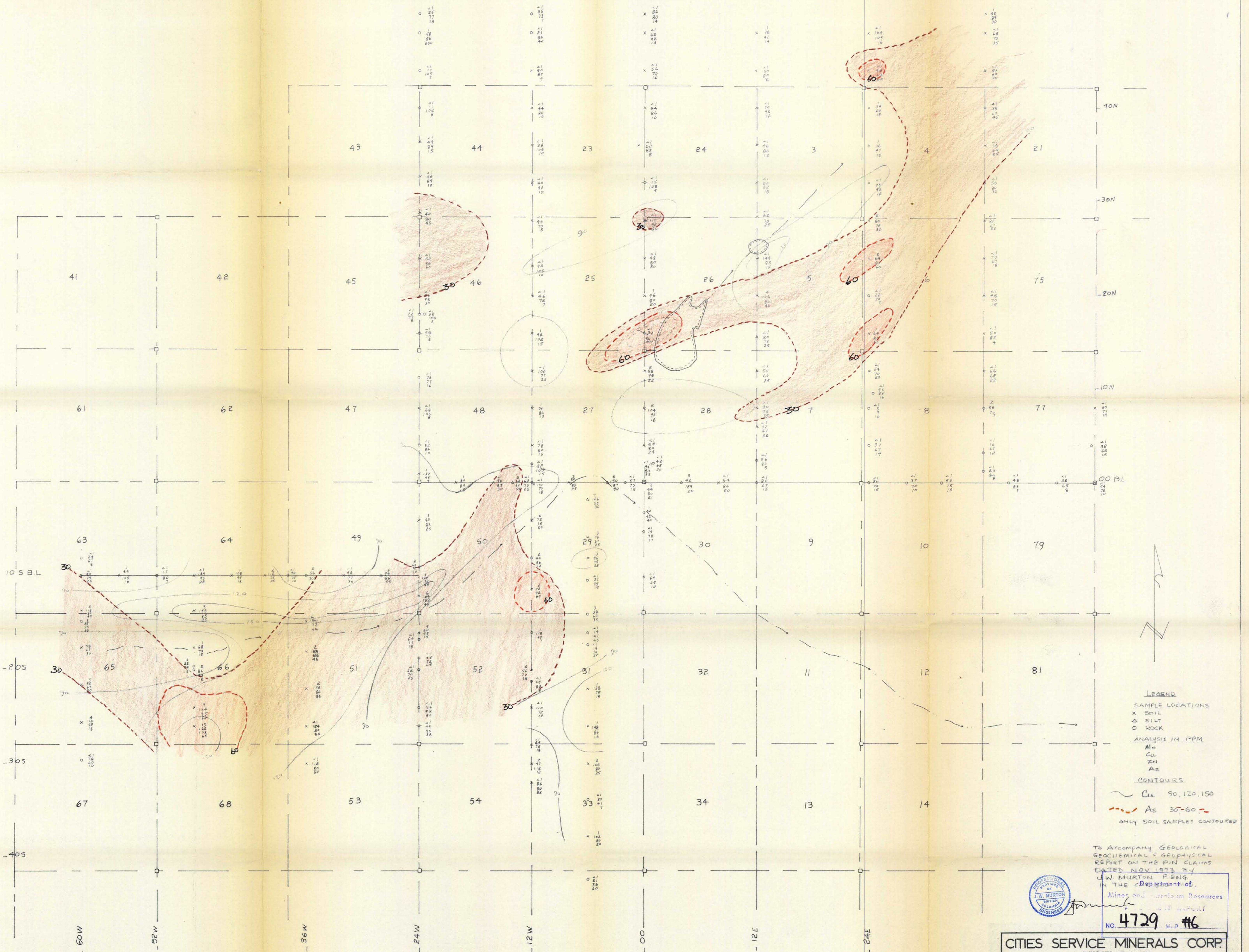
CITIES SERVICE MINERALS CORP.
VANCOUVER B.C. CANADA

PIN CLAIMS - TATLA LAKE AREA BC.
GEOCHEMISTRY

SCALE IN FEET	0	200	400	800	1200
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REVISION:

4729-M5



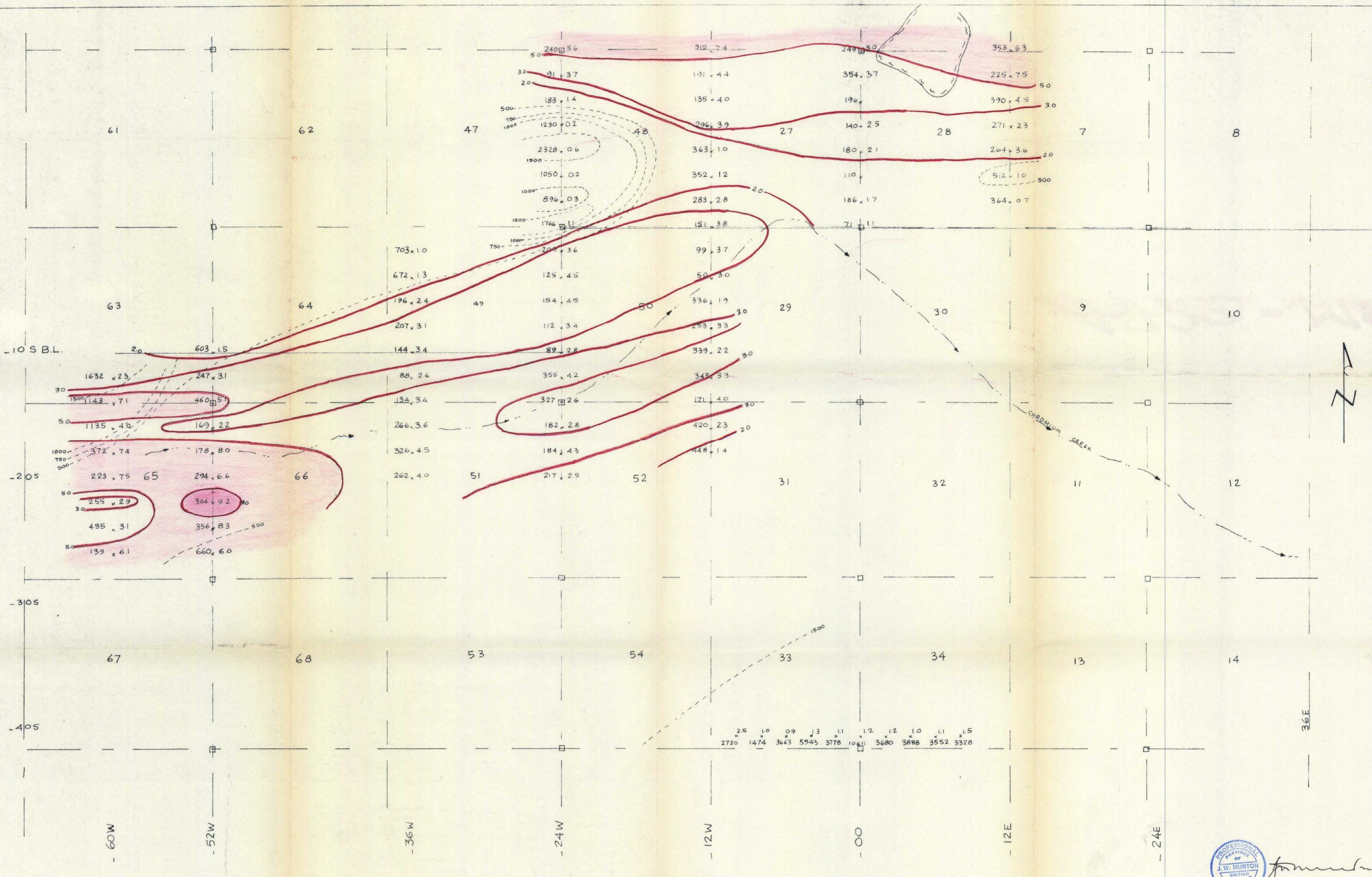
TO ACCOMPANY GEOLOGICAL
GEOCHEMICAL & GEOPHYSICAL
REPORT ON THE PIN CLAIMS
DATED NOV 1973 BY
W. MURTON P. ENG.
IN THE PROFESSION OF
Miner and Mineral Resources



NO. 4729 #6

CITIES SERVICE MINERALS CORP.	
VANCOUVER B.C. CANADA	
PIN CLAIMS - TATLA LAKE AREA BC.	
As GEOCHEMISTRY	
SCALE IN FEET	0 200 400 600 800 1000
DATE: NOV 1973	N.T.S. No:
DRAWN BY: J.W.M.	DRAWING No.: SA
REVISION:	

4729-M6



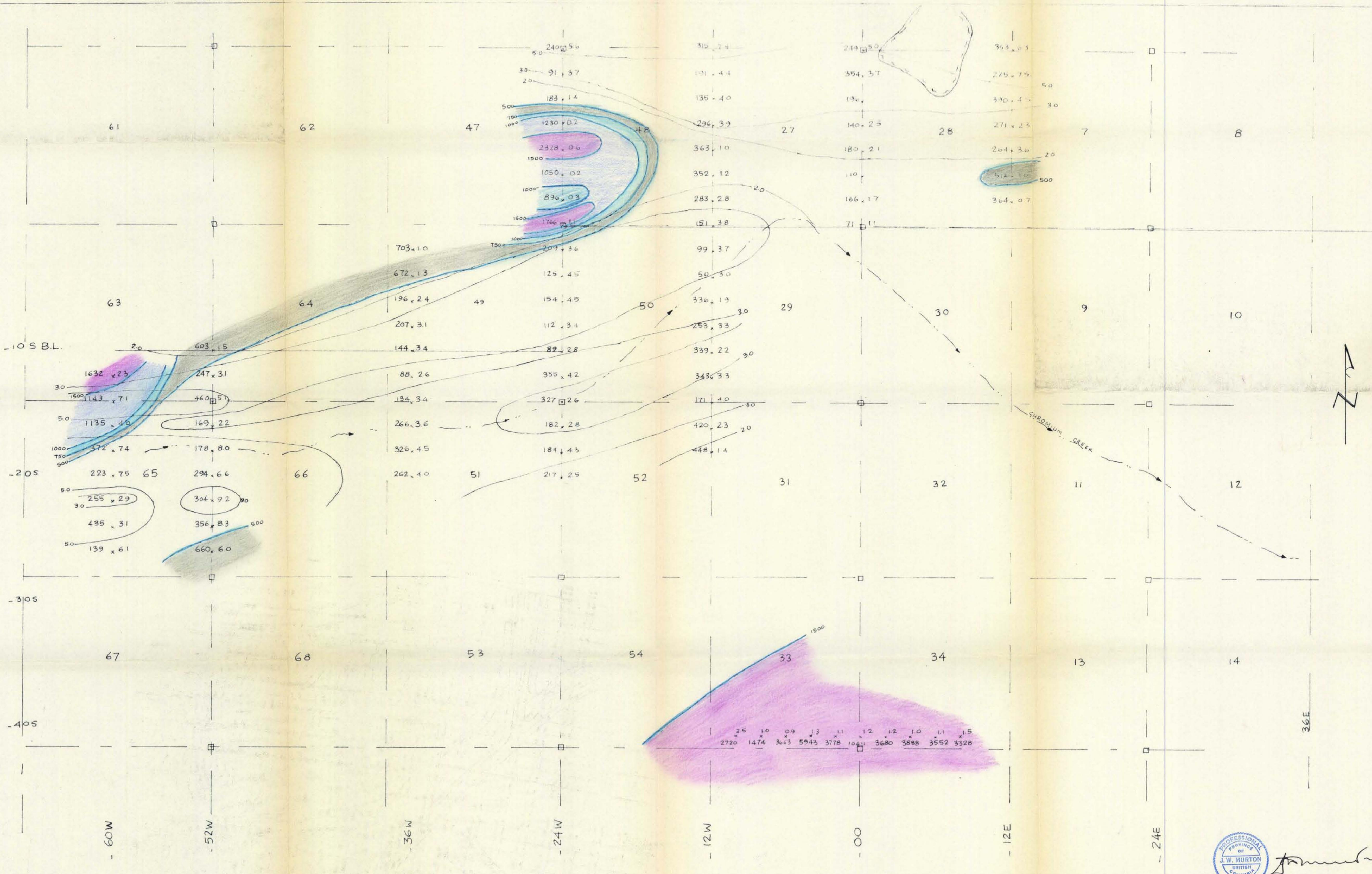
LEGEND

- CL - CLAIM LINE WITH POST BASE LINE
- 54 - CLAIM NUMBER IN CENTRE OF CLAIM
- READING LOCATION
- 448 X 1.4 = % FREQ EFFECT
- RESISTIVITY - OHM FEET
- CONTOURS
- % FE 2.0, 3.0, 5.0, 9.0, 13.0
- RESISTIVITY 500, 750, 1000, 1500

TO ACCOMPANY GEOLOGICAL, GEOCHEMICAL & GEOPHYSICAL
REPORT ON THE PIN CLAIMS, CARIBOO M.D. BY
J.W. MURTON P.ENG. DATED NOVEMBER 1973

4729-M7

CITIES SERVICE MINERALS CORP.	
VANCOUVER B.C. CANADA	
PIN CLAIMS - TATLA LAKE AREA	
PLAN VIEW I.P. N=2	
DIPOLE-DIPOLE %FE	
SCALE IN FEET	0 200 400 600
DATE: SEPT 30 1973	N.T.S. NO: 92N 14E
DRAWN BY: JWM	DRAWING NO: 6
REVISON:	Mines and Mineral Resources
ASSESSMENT REPORT	
NO. 4729 M.D. #7	



TO ACCOMPANY GEOLOGICAL, GEOCHEMICAL & GEOPHYSICAL
REPORT ON THE PIN CLAIMS, CARIBOO M.D. BY
J.W. MURTON P.ENG. DATED NOVEMBER 1973

4729 - M8

CITIES SERVICE MINERALS CORP.
VANCOUVER B.C. CANADA

PIN CLAIMS - TATLA LAKE AREA	
PLAN VIEW I.P. N = 2 RES	
DIPOLE-DIPOLE	
SCALE IN FEET	0 200 400 800
DATE: SEPT 30 1973	N.T.S. NO: 92N - 14E
DRAWN BY: J.W.M.	DRAWING NO: 6A
Mines and Petroleum Resources	
REVISION:	

NO. 4729 #8

LEGEND
 CL - CLAIM LINE WITH POST
 BASE LINE
 54 - CLAIM NUMBER IN CENTRE OF CLAIM
 READING LOCATION
 448 x 14 - % FREQ EFFECT
 RESISTIVITY - OHM FEET
 CONTOURS
 % F.E. 2.0, 3.0, 5.0, 9.0, 13.0
 RESISTIVITY
 500, 750, 1000, 1500

323 305 285 265 245 225 205 185 165 145 125

60W



Oct
1923

卷八



$n=1$
 $n=2$
 $n=3$ M
 $n=4$

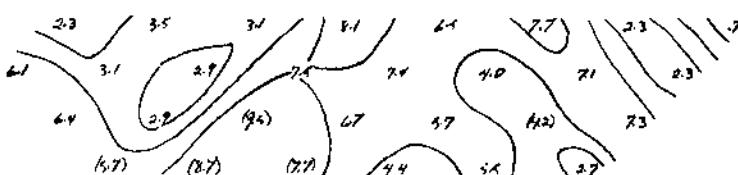
Scal. 1st ~~400~~
D August 22, 1973 of
Director: Dr. Morrison

Mines and Petroleum Resources

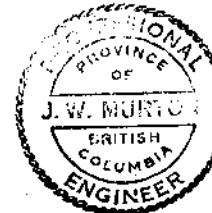
ASSIGNMENT REPORT

NO 4729 MAP F9

TO ACCOMPANY GEOLOGICAL, GEOCHEMICAL &
GEOPHYSICAL REPORT ON THE PIN CLAIMS
BY J. W. MURTON P. ENG. DATED NOVEMBER
1973 IN THE CARIBOO M. D.

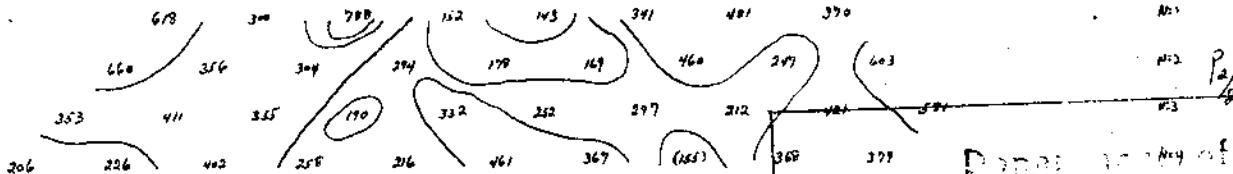


p. 1



245 235 225 185 165 145 125 105 95 65 45 25 0 20 40 60

52W



CITIES: SERVICE MINERALS CORP.
TATLA LAKE AREA, B.C.
PIN GROUP CLAIMS
H.P. I.P. (DIPOLE-DIPOLE)
FREQ.: 0.345 C.P.S.

Dipper 17° Key ref

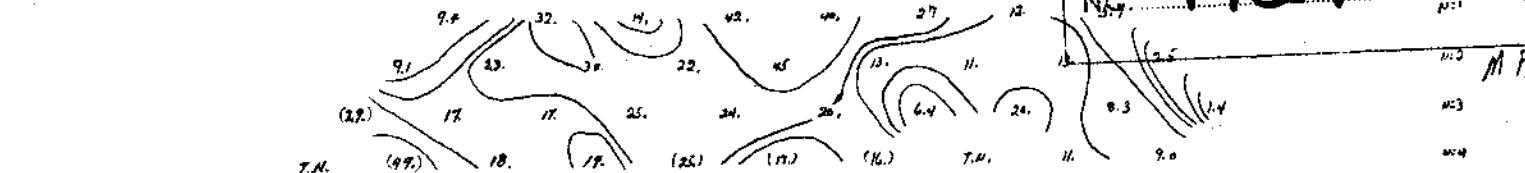
Mines and Resources Assessment REPORT

4729 M.A.D. #10

LINE 52W
SCALE: 1" = 400'
DATE: 23/8/73
OP: D. R. MORRISON

FIG. 8

LEGEND:
(1.1) - NOISY READING
TN - TONNEAU TO READ.

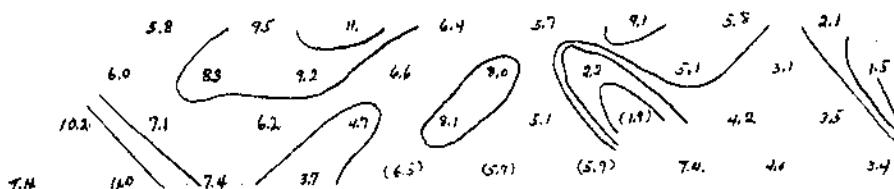


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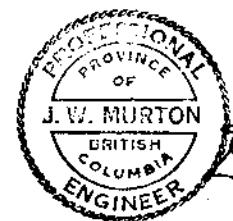
← 444 CASSIDY TATLAS HILL

Station 80161-5300

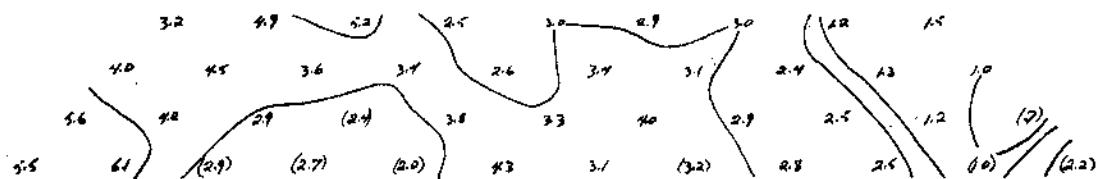
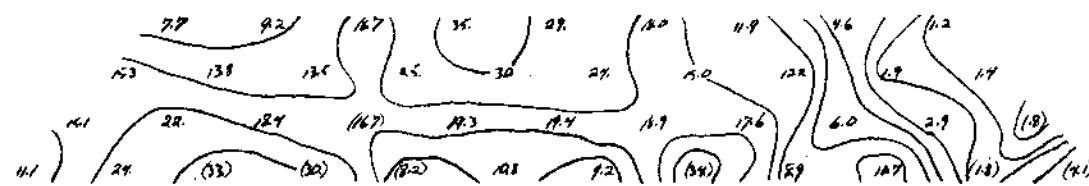
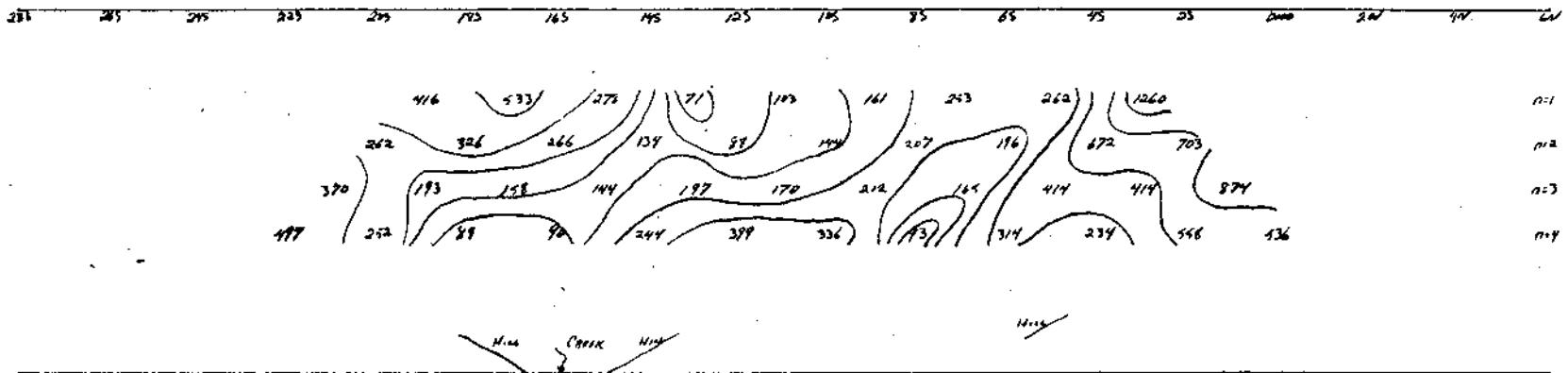
TO ACCOMPANY GEOLOGICAL, GEOCHEMICAL &
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1973 IN THE CARIBOO M. D.



N:1
N:2
N:3
N:4
F.E.



• 36W



$\alpha=1$
 $\alpha=2$
 $\alpha=3$ $\frac{P_2}{24}$, 61-46
 $\alpha=4$

Cities Service Minnesota Corp.
Tater Lake, Idan., B.C.
Pine & Cedar Lanes
Hick House, I.D. (Brown Davis)
LINE 36 W

Mass: 57.3 g.
Score: 1" ~~400~~

August 23, 1973.

Draughtsman: D.G. Morrison.

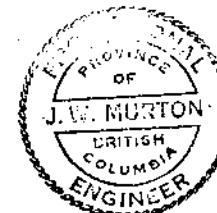
FIG. 9.

Mines and mineral resources

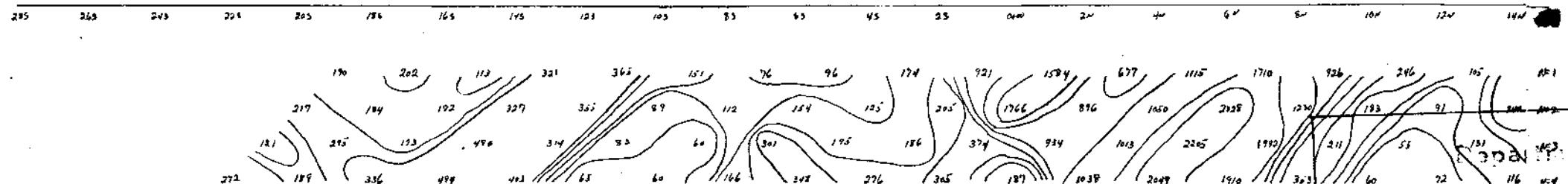
Answers to Report

11 NC. 4729 MAP #11

TO ACCOMPANY GEOLOGICAL, GEOCHEMICAL &
GEOPHYSICAL REPORT ON THE PIN CLAIMS
BY J. W. MURTON P. ENG. DATED NOVEMBER
1973 IN THE CARIBOO M.D.



24W



CITIES SERVICE MINERALS CORP.
TATLA LAKE AREA, B.C.

PIN GROUP CLAIMS
H.P. I.P. (DIPOLE - DIPOLE)
FREQ. : 0.3 KSC.P.S.

LINE 24 W

ScalE : 1" = 40'

Page 1 18/04/2017

DATE : 19/3/77

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FIG. 10

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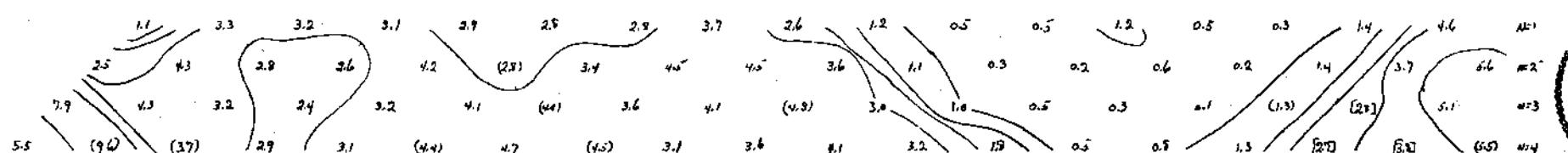
(0.5) - NOISY READING
(1.3) - VERY NOISY READING

NC. 418 MAP. 116

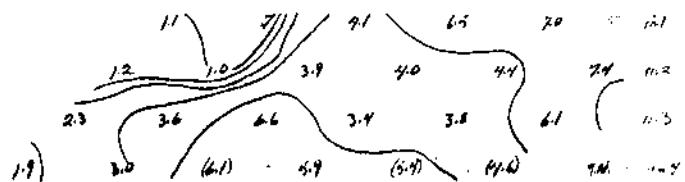
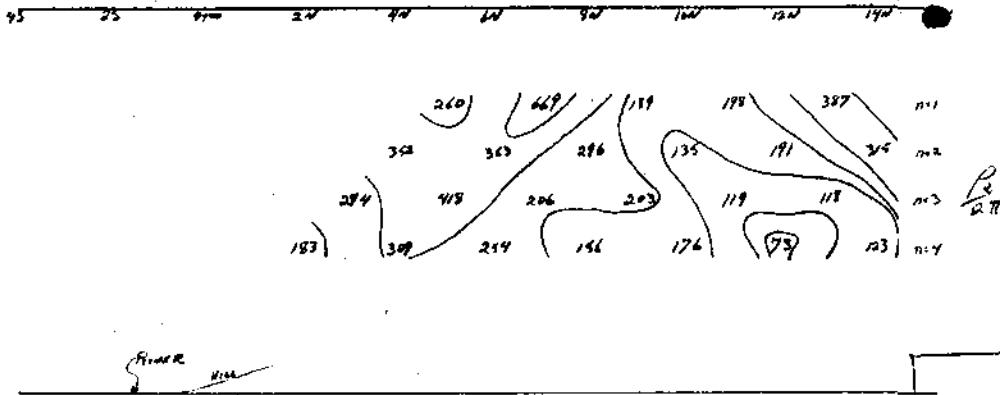
NC. 418 MAP. 116

<img alt="A detailed contour map showing elevation values across a landscape. The map includes numerous contour lines with labels such as 5.6, 16., 28., 9.7, 7.9, 19., 37., 39., 15., 1.3, 0.3, 0.7, 1.1, 0.3, 0.2, 0.1, 0.4, 3.7, 6.5, 5.3, 5.2, 4.1, 3.1, 2.1, 1.1, 0.6, 0.3, 0.9, 0.8, 0.2, 0.1, 0.7, 1.1, 1.3, 1.5, 1.7, 1.9, 2.1, 2.3, 2.5, 2.7, 2.9, 3.1, 3.3, 3.5, 3.7, 3.9, 4.1, 4.3, 4.5, 4.7, 4.9, 5.1, 5.3, 5.5, 5.7, 5.9, 6.1, 6.3, 6.5, 6.7, 6.9, 7.1, 7.3, 7.5, 7.7, 7.9, 8.1, 8.3, 8.5, 8.7, 8.9, 9.1, 9.3, 9.5, 9.7, 9.9, 10.1, 10.3, 10.5, 10.7, 10.9, 11.1, 11.3, 11.5, 11.7, 11.9, 12.1, 12.3, 12.5, 12.7, 12.9, 13.1, 13.3, 13.5, 13.7, 13.9, 14.1, 14.3, 14.5, 14.7, 14.9, 15.1, 15.3, 15.5, 15.7, 15.9, 16.1, 16.3, 16.5, 16.7, 16.9, 17.1, 17.3, 17.5, 17.7, 17.9, 18.1, 18.3, 18.5, 18.7, 18.9, 19.1, 19.3, 19.5, 19.7, 19.9, 20.1, 20.3, 20.5, 20.7, 20.9, 21.1, 21.3, 21.5, 21.7, 21.9, 22.1, 22.3, 22.5, 22.7, 22.9, 23.1, 23.3, 23.5, 23.7, 23.9, 24.1, 24.3, 24.5, 24.7, 24.9, 25.1, 25.3, 25.5, 25.7, 25.9, 26.1, 26.3, 26.5, 26.7, 26.9, 27.1, 27.3, 27.5, 27.7, 27.9, 28.1, 28.3, 28.5, 28.7, 28.9, 29.1, 29.3, 29.5, 29.7, 29.9, 30.1, 30.3, 30.5, 30.7, 30.9, 31.1, 31.3, 31.5, 31.7, 31.9, 32.1, 32.3, 32.5, 32.7, 32.9, 33.1, 33.3, 33.5, 33.7, 33.9, 34.1, 34.3, 34.5, 34.7, 34.9, 35.1, 35.3, 35.5, 35.7, 35.9, 36.1, 36.3, 36.5, 36.7, 36.9, 37.1, 37.3, 37.5, 37.7, 37.9, 38.1, 38.3, 38.5, 38.7, 38.9, 39.1, 39.3, 39.5, 39.7, 39.9, 40.1, 40.3, 40.5, 40.7, 40.9, 41.1, 41.3, 41.5, 41.7, 41.9, 42.1, 42.3, 42.5, 42.7, 42.9, 43.1, 43.3, 43.5, 43.7, 43.9, 44.1, 44.3, 44.5, 44.7, 44.9, 45.1, 45.3, 45.5, 45.7, 45.9, 46.1, 46.3, 46.5, 46.7, 46.9, 47.1, 47.3, 47.5, 47.7, 47.9, 48.1, 48.3, 48.5, 48.7, 48.9, 49.1, 49.3, 49.5, 49.7, 49.9, 50.1, 50.3, 50.5, 50.7, 50.9, 51.1, 51.3, 51.5, 51.7, 51.9, 52.1, 52.3, 52.5, 52.7, 52.9, 53.1, 53.3, 53.5, 53.7, 53.9, 54.1, 54.3, 54.5, 54.7, 54.9, 55.1, 55.3, 55.5, 55.7, 55.9, 56.1, 56.3, 56.5, 56.7, 56.9, 57.1, 57.3, 57.5, 57.7, 57.9, 58.1, 58.3, 58.5, 58.7, 58.9, 59.1, 59.3, 59.5, 59.7, 59.9, 60.1, 60.3, 60.5, 60.7, 60.9, 61.1, 61.3, 61.5, 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295.7, 295.9, 296.1, 296.3, 296.5, 296.7, 296.9, 297.1, 297.3, 297.5, 297.7, 297.9, 298.1, 298.3, 298.5, 298.7, 298.9, 299.1, 299.3, 299.5, 299.7, 299.9, 300.1, 300.3, 300.5, 300.7, 300.9, 301.1, 301.3, 301.5, 301.7, 301.9, 302.1, 302.3, 302.5, 302.7, 302.9, 303.1, 303.3, 303.5, 303.7, 303.9, 304.1, 304.3, 304.5, 304.7, 304.9, 305.1, 305.3, 305.5, 305.7, 305.9, 306.1, 306.3, 306.5, 306.7, 306.9, 307.1, 307.3, 307.5, 307.7, 307.9, 308.1, 308.3, 308.5, 308.7, 308.9, 309.1, 309.3, 309.5, 309.7, 309.9, 310.1, 310.3, 310.5, 310.7, 310.9, 311.1, 311.3, 311.5, 311.7, 311.9, 312.1, 312.3, 312.5, 312.7, 312.9, 313.1, 313.3, 313.5, 313.7, 313.9, 314.1, 314.3, 314.5, 314.7, 314.9, 315.1, 315.3, 315.5, 315.7, 315.9, 316.1, 316.3, 316.5, 316.7, 316.9, 317.1, 317.3, 317.5, 317.7, 317.9, 318.1, 318.3, 318.5, 318.7, 318.9, 319.1, 319.3, 319.5, 319.7, 319.9, 320.1, 320.3, 320.5, 320.7, 320.9, 321.1, 321.3, 321.5, 321.7, 321.9, 322.1, 322.3, 322.5, 322.7, 322.9, 323.1, 323.3, 323.5, 323.7, 323.9, 324.1, 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TO ACCOMPANY GEOLOGICAL, GEOCHEMICAL &
GEOPHYSICAL REPORT ON THE PIN CLAIMS
BY J. W. MURTON P. ENG. DATED NOVEMBER
1973 IN THE CARIBOO M. D.



12W



Crown Service Minerals Corp.
Tatla Lake Area, B.C.
Pin Group Claims.
High Park J.P. (Vitro. Divided).
LINE 12 W
Mile: 54.3 n.s.
Scale: 1" = 400'

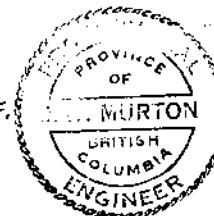
August 17, 1973

Department of Mineral

FIG. II
Mines and Petroleum Resources
ASSESSMENT REPORT

NO. 4729 M.P. #13

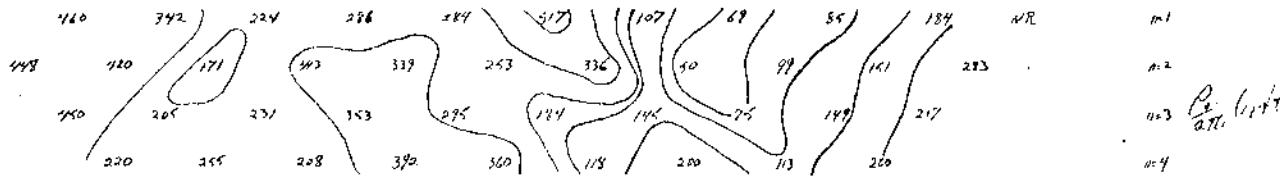
TO ACCOMPANY GEOLOGICAL, GEOCHEMICAL &
GEOPHYSICAL REPORT ON THE PIN CLAIMS
BY J. W. MURTON P. ENG. DATED NOVEMBER
1973 IN THE CARIBOO M.D.



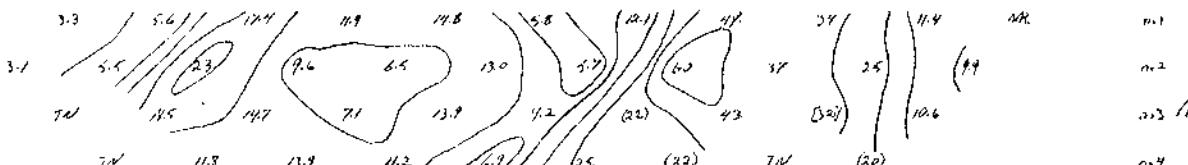
J.W. Murton

225 225 135 135 145 145 125 125 105 95 25 45 35 0.0 2.0 4.0 6.0 8.0 10.0

12W



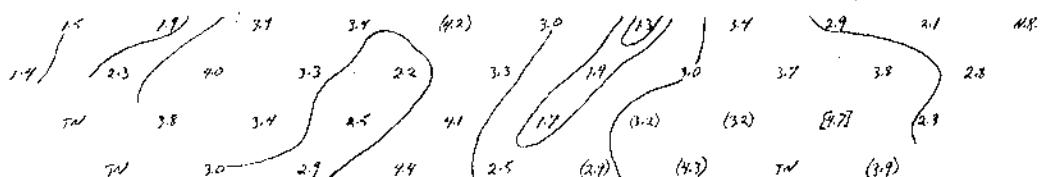
Hill River Hill — Hill River Hill —



No. 4729 Map #14

FIG. 12

TO ACCOMPANY GEOLOGICAL, GROWTH-CHEMICAL &
GEOPHYSICAL REPORT ON THE PIN CLAIMS
BY J. W. MURTON P. Eng. DATED NOVEMBER
1973 IN THE CARTBOO M. D.



63

63

-

OP

[Signature]

CITIES SERVICE MINERALS CORP.
TATLOW LAKE AREA, B.C.
PIN GROUP CITIES
H.P. I.P. (DIRECT-DIRECT)
FREQ. : 0.245 CPS

LINER = ○ + ○○

Scale : 1": 400'

DATE : 14/8/23

Op. : S. E. Johnson

FIG 1

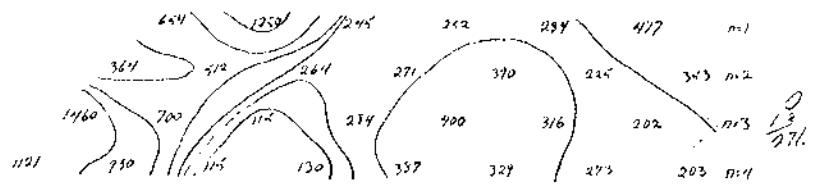
4729 #15

LEGEND

(2.1) - NOISY READING
(E.1) - VERY NOISY READING
T.H. TO NOISY TO ECHO
DUE TO LOW CURRENTS
AND HIGH RESISTIVITIES

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12E



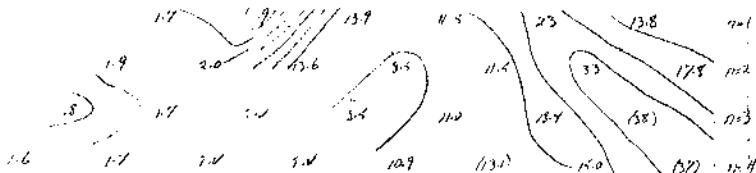
Cities Service, *Montana Corp.*
Twin Lakes Ave., B.C.
Pet. Gasour Coatings
High Power I.P. (3 pole, 4 pole)

1942-12-31

Scars, 17400.

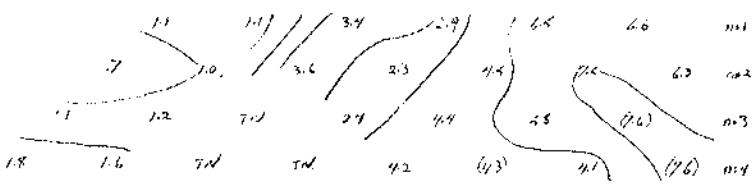
August 19, 1973.
Dinner. D. G. 1/1000, 30.0.

FIG. 14. - *C. tenuis* (Gmel.)



4729 #16

TO ACCOMPANY GEOLOGICAL, GEOCHEMICAL &
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1973 IN THE CARIBOO M. D.



1500 1400 1300 1200 800 600 400 200 0 200 400 600 800 1000 1200 1400 1600

40+40S



m.1

m.2

m.3

m.4

Cities Services Minerals Corp.
Twin Lake Area, B.C.
Pac Group Canadas
High Power I.R. (Dipole-Dipole).
LINE 40+40 S

Depth: 54.3 m

Scale: 1:4000

August 21, 1973.
Drafter: J.T. MCKEEON

FIG 15. 1:4000

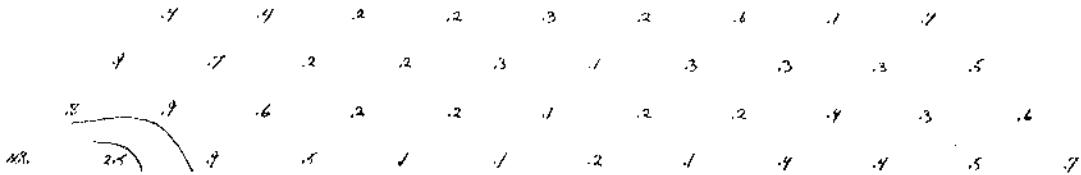
m.1

m.2

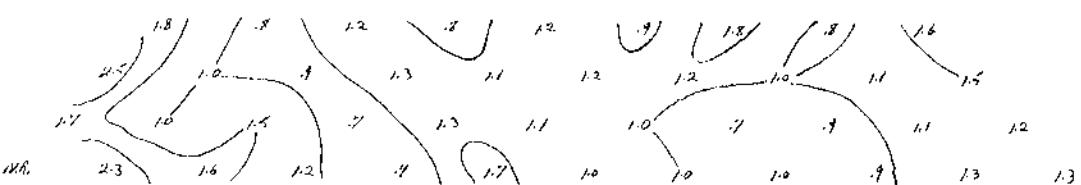
m.3

m.4

ME 4729 #17



TO ACCOMPANY GEOLOGICAL, GROWTHCHEMICAL &
CHROMOSPHERICAL REPORT ON THE 10th CLASS
BY J. T. MCKEEON P.Eng. DATED NOVEMBER
1973 IN THE CARTHOO N. D.



m.1

m.2

m.3

m.4

J. McKeeon