

# 2610

REPORT ON

GEOCHEMICAL AND GEOPHYSICAL (MAGNETOMETER) SURVEYS

ON THE

J. M. MINERAL CLAIM GROUP, 49° , 121° S. E.

JULIET CREEK, BRITISH COLUMBIA

IN THE

NICOLA MINING DIVISION

FOR

J. S. CHRISTIE AND K. W. LIVINGSTONE

JULY 5 - 15, 1970

Department of Mines and Petroleum Resources ASSESSMENT REPORT NO. <u>2610</u> MAP
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OCTOBER 1, 1970

M. P. STADNYK, B.Sc.

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## INTRODUCTION

The JM mineral claim group consists of twenty contiguous mineral claims and fractions situated on the upper reaches of Juliet Creek in the Coquihalla area of the Nicola Mining Division, British Columbia. These claims were staked by Messrs. J. S. Christie and K. W. Livingstone during a 1969 prospecting programme after the discovery of geochemical anomalous molybdenum in stream sediments. Detailed surveys recommended by Mr. P. E. Hirst, P. Engineer, were carried out by a four man crew under the direction of M. P. Stadnyk, B.Sc., from July 5th to July 14, 1970.

Work performed consisted of line cutting, soil sampling, magnetometer survey, camp construction and trail cutting.

## LOCATION AND ACCESS

Property is situated on Juliet Creek, some seven miles north of Coquihalla Lake and thirty miles southwest of Merritt, B. C.

Co-ordinates: - Latitude 49° 44' north, longitude  
121° 6' west.

Elevations range from 3,600 feet to 5,000 feet above sea level.

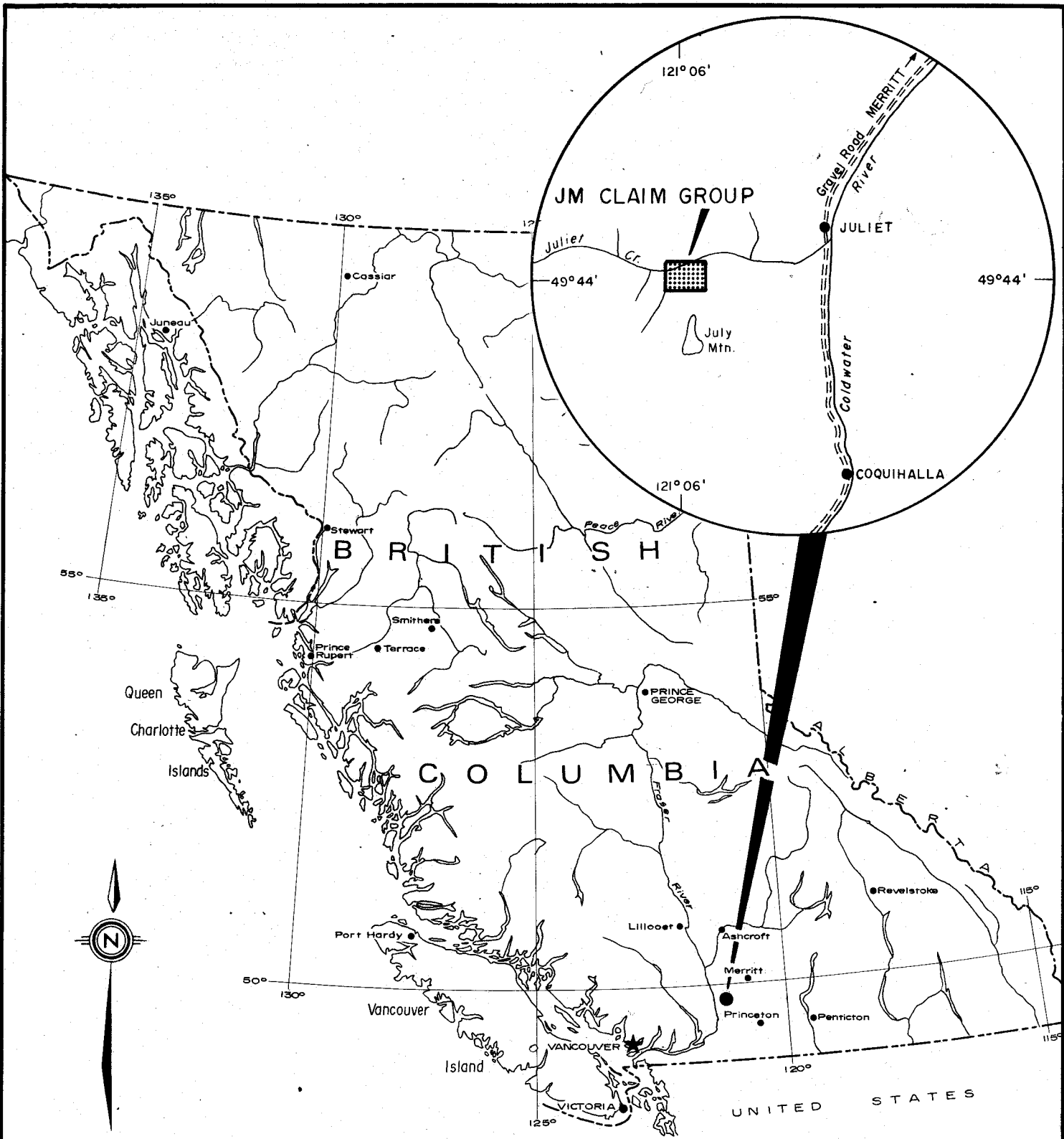
Access is provided by a good gravel and dirt road along the Coldwater River from Merritt to two miles east of the property. An old, rough, disused, and partially overgrown forestry fire access road connects the northernmost claims to the Coldwater River road.

## PROPERTY

The property consists of 16 full sized and four fractional mineral claims which were staked by Messrs. Christie and Livingstone. Twenty other claims shown on the mineral claims map were allowed to lapse. Owners of other mineral claims in the area are unknown.

Details of the JM mineral claims which are located in the Nicola Mining Division are:-

<u>CLAIM</u>	<u>LOCATOR</u>	<u>RECORD NUMBER</u>
JM 3, 5, 7, 9	J. S. Christie	41845,-47,-49,-51
JM 15-22	K.W. Livingstone	41857 - 864,inclusive
JM 25, 27, 29, 31	" "	41867,-69,-71,73
JM 42 Fr., 43 Fr.	" "	41883 - 84
JM 44 Fr., 45 Fr.	J. S. Christie	41885 - 86.



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 NO. 2610 MAP #1

JM MINERAL CLAIMS  
 JULIET CREEK, B.C.  
 NICOLA MINING DIVISION  
 LOCATION MAP  
 SCALE 1" = 136 Miles  
 June, 1970 M.P. Stadnyk



Department of  
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ASSESSMENT REPORT

NO. 2610 MAP #2

JM MINERAL CLAIMS  
JULIET CREEK, B.C.  
NICOLA MINING DIVISION  
CLAIM MAP

SCALE 1" = 1500'  
June, 1970 M.P. Stadnyk

All claims were recorded on August 8, 1969.

## HISTORY

The only evidence of prior exploration work on the property are some old witness claim posts located for the Mining Corporation of Canada Ltd., in 1966, positioned near 32N, 12E, and a trail connecting a molybdenum showing at 34N, 3W to the old forestry access road north of Juliet Creek.

## SURVEYS

### Grid

A grid suitable for soil sampling and a magnetometer survey was cut out by a four man crew employed by Can West Investments Ltd. under the direction of the author.

A total of 11.3 miles (60,400 feet) of line was cut out as shown on the accompanying grid map.

The base line and tie line (at 44E) were cut on a bearing of N.10°E. Each was 3,200 feet long. Cross lines, 5,400 feet long were cut at right angles to the base line.

Marked and flagged pickets were placed at 200 foot intervals along all lines, and unmarked flags placed at intervening 100 foot points.

Because of steep terrain and unexpected canyons line cutting took longer than anticipated.

## GEOCHEMICAL SURVEY

### Soil Sampling

255 soil samples were collected for copper-molybdenum analysis.

Samples were taken at 200 foot intervals along all lines. Each hole was dug using a mattock to depths ranging from three to twenty-two inches, with an average of twelve inches. A spoon was used to collect the soil sample which was placed in a marked kraft paper envelope. The following data was recorded for each sample:- location, vegetation cover, description of soil type, texture and colour, estimate of overburden, sample depth, slope,

and any other remarks relevant to topography.

### GEOCHEMICAL ANALYSIS

All samples were sent to Chemex Labs Ltd., North Vancouver, B. C., where they were tested for copper and molybdenum in parts per million. Method of preparation for both metals consists of a four hour hot perchloric-nitric acid digestion period. Concentration of solvents were 70% perchloric acid and concentrated nitric acid in the proportion of 5:3.

Analysis was by atomic absorption in parts per million. Certificates of analysis are included with this report.

### INTERPRETATION

Statistical analysis of all determinations using "metal" p.p.m. range vs. cumulative frequency percent plotted on semi-log graph paper revealed background values of 24 p.p.m. Copper and 4 p.p.m. molybdenum. Anomalous values for copper are above 60 p.p.m., and for molybdenum 18 p.p.m. Copper values range from one to 277 p.p.m., while molybdenum range from zero (51% of readings) to a high of 64 p.p.m.

Contours of plotted values as shown on the accompanying maps reveal narrow northwesterly trending anomalies.

(A) The most significant anomaly which parallels an un-named creek from 36N, 28E to 52N, 20E indicates a shear or vein structure carrying copper and molybdenum.

(B) A second anomalous area (with higher values) running from 40N, 8E to 52N, 6E, shows molybdenum contours displaced to the west of the copper anomaly by 600 feet on line 48N. Drainage does not appear to be responsible for this effect.

Both A and B anomalies should be checked out in detail. It is interesting to note that outcrops of brecciated and mineralized granodiorite in streams near the base line (30N to 38N) do not fall within either anomaly A or B. In fact these showings do not appear to be of much importance, survey-wise.

(C) A molybdenum anomaly which has no coinciding copper anomaly is located between outcrops of mineralized brecciated granodiorite

at 36N from 2W to 2E. This should also be checked further.

Other small anomalies or high values detected elsewhere on the property are not considered to be of importance and could be due to float from farther up the hillside or ice borne.

### GEOPHYSICAL (MAGNETOMETER) SURVEY

#### Equipment

The magnetometer survey was conducted using a SHARPE model MFI FLUXGATE, Serial Number 30544. This instrument is self orientating requiring only coarse levelling. Temperature compensations have been built into the instrument. Readings on the lowest scale can be read to 20 gammas and estimated to 5 gammas. Scale ranges from plus 100,000 gammas to minus 100,000 gammas. A high latitude adjustment permits zeroing of the instrument at any location. A battery check is also built into the metering circuit.

#### FIELD PROCEDURES

The fluxgate was zeroed for the property on a master station near 56N, 44E. Base stations were established at 400 foot intervals along the base line. Corrections were then applied to these stations using the master station for control.

Readings were then taken at 200 foot intervals on all cross lines with each traverse starting and finishing on an established base station. Elapsed time per traverse ranged from 40 minutes for a loop west of the base line to 120 minutes for a similar loop to the east of the base line. The steep terrain was mainly responsible for long time period per loop.

Diurnal variation tolerance for any traverse was less than one gamma per minute elapsed and actual variation for some eastern loops was 1/4 gamma per station.

#### Corrections

Compensations built into the instrument eliminate any need for temperature corrections being applied to field readings. Diurnal corrections were applied to all readings between the initial and final base stations of each traverse. This variation is assumed to be linear and the correction for any one reading



in a traverse is the diurnal variation multiplied by the ratio: time elapsed when reading taken, divided by, total time elapsed in the loop.

### Interpretation

Readings ranged from +20 gammas to +900 gammas and background fell in the +300 to +500 gamma range.

Low anomalies (values below 300 gammas) show up on the eastern portion of the property and close to brecciated-mineralized? granodiorite. Three scattered small "Low" anomalies are located on the southern portion of the claim group (32N, 16-24E; 28N, 32E).

An isolated "high" occurs at 28N, 16E, but the main "high" anomaly stretches from 34N-26E to 56N, 22E to 38E.

The magnetometer survey over these mineral claims indicates a rather uniform, generally unaltered rock type with the possible exception of an anomalous high of over 700 gammas trending northwest from 36N, 28E to 48N, 20E. This "high" zone, although displaced coincides well with the geo-chemical anomalies (A) discussed earlier.

Although this anomaly is interesting, it is very narrow and does not warrant detail magnetometer work.

### PERSONNEL

A crew of four men worked on this property under the supervision of M. P. Stadnyk (Geologist) from July 5th to July 14th, 1970.

These men were D. R. Milliner, T. Midgley, R. Watson, and G. Wong.

D. R. Milliner took the magnetometer readings, while the remainder of the crew soil sampled.

### CAMP

A temporary camp consisting of two tents (12' X 14'

and 16' X 18') with wooden floors and squaw pole frames was erected on the natural gas pipeline road approximately one-half mile off the Coldwater-Coquihalla road and one and one-half miles from the property. The smaller tent served as a cook-tent.

#### EQUIPMENT

A 3/4 ton Ford Budget Rental truck was used for transportation on the property and for supplying the camp.

A 3/4 ton Ford 4 X 4 was also used on the property for a few days to carry men and materials past deep mud-holes near camp. Unfortunately, sand on the forestry fire access road prevented any vehicle from getting closer than a half mile to the property.

A one-ton Mercury truck was also used for a short spell at no cost to the project.

Other equipment supplied by Can West Investments Ltd. included two Homelite power saws, fire fighting equipment, and a Sharpe Fluxgage.

#### SUMMARY

A search for copper-molybdenum mineralization on the JM mineral claim group was conducted by Can West Investments Ltd. personnel from July 5 to July 14, 1970. The exploration programme included line cutting (grid), soil sampling and a magnetometer survey.

Three zones of limited size were revealed by these surveys, of which one appeared in all surveys. This is a narrow zone trending northwesterly from 36N, 28E to 48N, 20E. Known outcrops in the southwestern portion of the property did not show up as anomalous zones in any survey.

RECOMMENDATIONS

The anomalies revealed in the geochemical and geophysical surveys should be checked out by careful prospecting and geological mapping. Hand trenching would be quick and cheap.

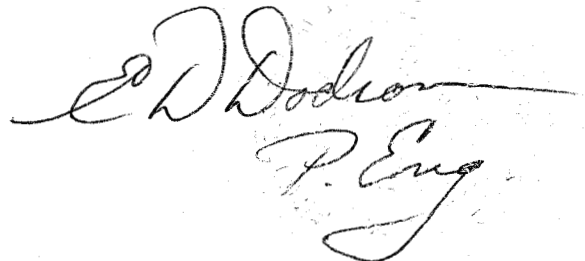
If a larger programme is muted, then a new access road along the north bank of Juliet Creek should be constructed so that a camp can be constructed on the property.

REPORT RESPECTFULLY SUBMITTED



M. P. Stadnyk, B.Sc.,  
Geologist.

October 1, 1970  
Vancouver, B. C.



P. Eng.

DECLARATION OF EXPENDITURESWages

D.R. Milliner- July 5-14/70	10 days @ \$35.00/day	- \$350.00	
T. Midgley - "	10 " " 30.00 "	- 300.00	
R. Watson - "	10 " " 30.00 "	- 300.00	
G. Wong - "	10 " " 30.00	<u>300.00</u>	
			\$1,250.00

Camp

Materials, Equipment and Food - \$7.00 per man day			
	\$7.00 X 42 days -		294.00

Transportation

Budget Rental Truck -	\$10.00 per day X 10 -	100	
Can West 4 X 4 Truck -	16.00 " " X 2 -	<u>32</u>	
			132.00

Fluxgate Rental -	1 Week @ \$75.00 -		75.00
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Assaying

Chemex Labs Ltd., Geochemical Determinations -			390.00
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Supervision

M. P. Stadnyk - 2 Days @ \$80.00 per day -			160.00
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<u>Report Preparation and Drafting Charges -</u>			<u>250.00</u>
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T O T A L -			<u><u>\$2,551.00</u></u>
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*M. P. Stadnyk*

CERTIFICATION

I, MIKE PETER STADNYK, of North Vancouver, B. C.

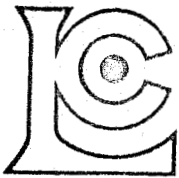
do hereby certify that :

1. I am a Mining Exploration Geologist residing at Suite 15, 2697 Whitley Court, North Vancouver, B. C.
2. I am a graduate of the University of New Zealand and have practised my profession in Canada for the past nine years.
3. The information contained in this report was based upon work carried out by me, or at my direction, between the period of July 5th and July 14th, 1970.



M. P. STADNYK, B. Sc.  
Geologist.

1st October, 1970.  
North Vancouver, B. C.



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## CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 10122

TO: Can-West Investments Ltd.,  
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INVOICE NO. 3430

DATE RECEIVED July 24/70

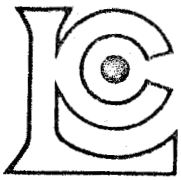
DATE ANALYSED July 30/70

ATTN: Mr. Mike Stadnyk

"JULIETTE CREEK"

SAMPLE NO.:	PPM Copper	PPM Molybdenum
BL 24N	14	0
24N 2E	16	0
4	13	0
6	33	0
8	21	0
10	12	0
12	24	0
14	21	0
16	8	0
18	60	2
20	22	3
22	4	0
24	8	0
26	84	6
28	144	2
30	14	0
32	24	3
34	28	0
36	7	0
38	4	0
40	18	0
42	24	0
24N 44E	10	0
24N 2W	20	0
4	12	0
6	12	0
8	63	0
24N 10W	21	0
28N 2E	18	0
4	8	0
6	63	23
8	44	4
10	16	3
12	84	4
14	20	3
16	10	2
18	31	2
20	22	0
22	80	60
28N 24E	13	0
Std., #22	54	17

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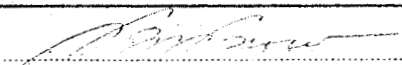
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Vancouver, B. C.

DATE RECEIVED July 24/70

DATE ANALYSED July 30/70

ATTN: Mr. Mike Stadnyk "JULIETTE CREEK"

SAMPLE NO.:		PPM Copper	PPM Molybdenum
28N 26E		116	2
28		4	0
30		44	0
32		51	5
34		33	3
36		18	0
38		13	0
40		14	0
42		7	0
28N 44E		21	0
BL 28		8	0
28N 2W		52	10
4		4	0
6		10	0
8		22	0
28N 10W		46	3
BL 32		16	4
32N 2E		7	1
4		13	1
6		58	4
8		12	6
10		12	5
12		6	1
14		90	16
16		10	5
18		20	2
20		31	9
22		20	4
24		22	7
* 28		33	1
30		3	0
32		66	2
34		18	1
36		7	0
38		4	0
40		14	0
42		3	0
32N 44E		14	0
32N 2W		13	17
Std.,		54	17
*26		40	6

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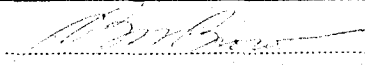
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DATE ANALYSED July 30/70

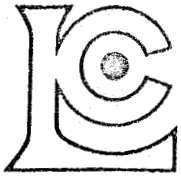
ATTN: Mr. Mike Stadnyk

"JULIETTE CREEK"

SAMPLE NO.:	PPM Copper	PPM Molybdenum
32N 4W	30	0
6	24	1
8	10	0
32N 10W	18	3
36N 2E	224	64
4	34	12
6	4	0
8	22	10
10	18	0
12	18	1
14	6	1
16	24	0
18	277	3
20	33	1
22	41	1
24	94	2
26	114	4
28	131	51
30	20	5
32	4	1
34	13	0
36	14	0
38	14	0
40	4	0
42	4	0
36N 44E	10	0
BL 36N	13	19
36N 2W	26	20
4	28	3
6	14	9
8	13	0
36N 10W	7	0
BL 40N	8	0
40N 2E	21	9
4	4	3
6	33	11
8	224	54
10	48	5
12	7	0
40N 14E	41	3
Std.,	56	21

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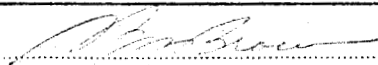
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TO: Can-West Investments Ltd.,  
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Vancouver, B. C.

ATTN: Mr. Mike Stadnyk

"JULIETTE CREEK"

SAMPLE NO.:	PPM Copper	PPM Molybdenum
40N 16E	36	2
18	6	4
20	8	1
22	28	2
24	10	0
26	248	12
28	6	0
30	6	26
32	6	3
34	7	0
36	14	0
38	13	0
40	6	0
42	12	0
40N 44E	4	0
BL 40N	4	4
40N 2W	4	3
4	21	3
6	14	5
8	7	0
40N 10W	33	46
BL 44N	6	0
44N 2E	7	0
4	6	0
6	42	30
8	16	2
10	80	7
12	48	2
14	4	0
16	7	1
18	4	0
20	4	0
22	13	0
24	152	12
26	7	0
28	74	3
30	8	0
32	8	1
34	12	0
44N 36E	112	51
Std., #22	56	17

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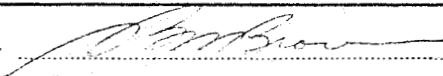
INVOICE NO. 3430

DATE RECEIVED July 24/70

DATE ANALYSED July 30/70

ATTN: Mr. Mike Staknyk "JULIETTE CREEK"

SAMPLE NO.:		PPM Copper	PPM Molybdenum
44N 38E		13	0
	40	12	0
	42	5	0
44N 44E		5	0
BL 44N		10	2
44N 2W		21	11
	4	3	0
	6	6	0
	8	8	0
44N 10W		12	2
48N 2E		4	2
	4	52	35
	6	18	15
	8	8	5
	10	168	10
	12	6	11
	14	6	3
	16	8	3
	18	212	10
	20	12	10
	22	30	9
	24	7	0
	26	6	0
	28	4	0
	30	7	0
	32	1	0
	34	3	0
	36	34	0
	38	16	0
	40	16	0
	42	12	0
48N 44E		16	0
BL 48N		51	18
48N 2W		14	17
	4	22	26
	6	108	20
	8	106	9
48N 10W		7	1
BL 52N		22	34
52N 2E		5	0
	Std., #22	56	18

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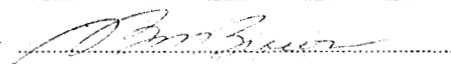
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1770 - 777 Hornby St.,  
Vancouver, B. C.

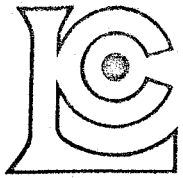
DATE RECEIVED July 24/70

DATE ANALYSED July 30/70

ATTN: Mr. Mike Stadnyk "JULIETTE CREEK"

SAMPLE NO.:	PPM Copper	PPM Molybdenum
52N 4E	14	7
6	126	39
8	33	10
10	6	0
12	7	4
14	54	5
16	72	10
18	22	6
20	66	4
22	12	5
24	8	1
26	16	3
28	183	7
30	6	21
32	13	7
34	6	0
36	6	2
38	8	0
40	20	0
42	22	0
52N 44E	6	0
BL 52N	26	37
52N 2W	1	0
4	26	25
6	7	14
8	7	8
52N 10W	4	0
56N 2E	14	0
4	26	0
6	92	1
8	28	0
10	31	0
12	22	0
14	30	0
16	16	0
18	14	0
20	18	1
22	18	0
24	20	0
56N 26E	33	0
Std., #22	56	18

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## CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 10128

TO: Can-West Investments Ltd.,  
1770 - 777 Hornby St.,  
Vancouver, B. C.

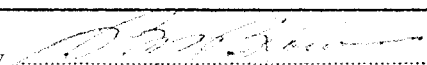
INVOICE NO. 3430

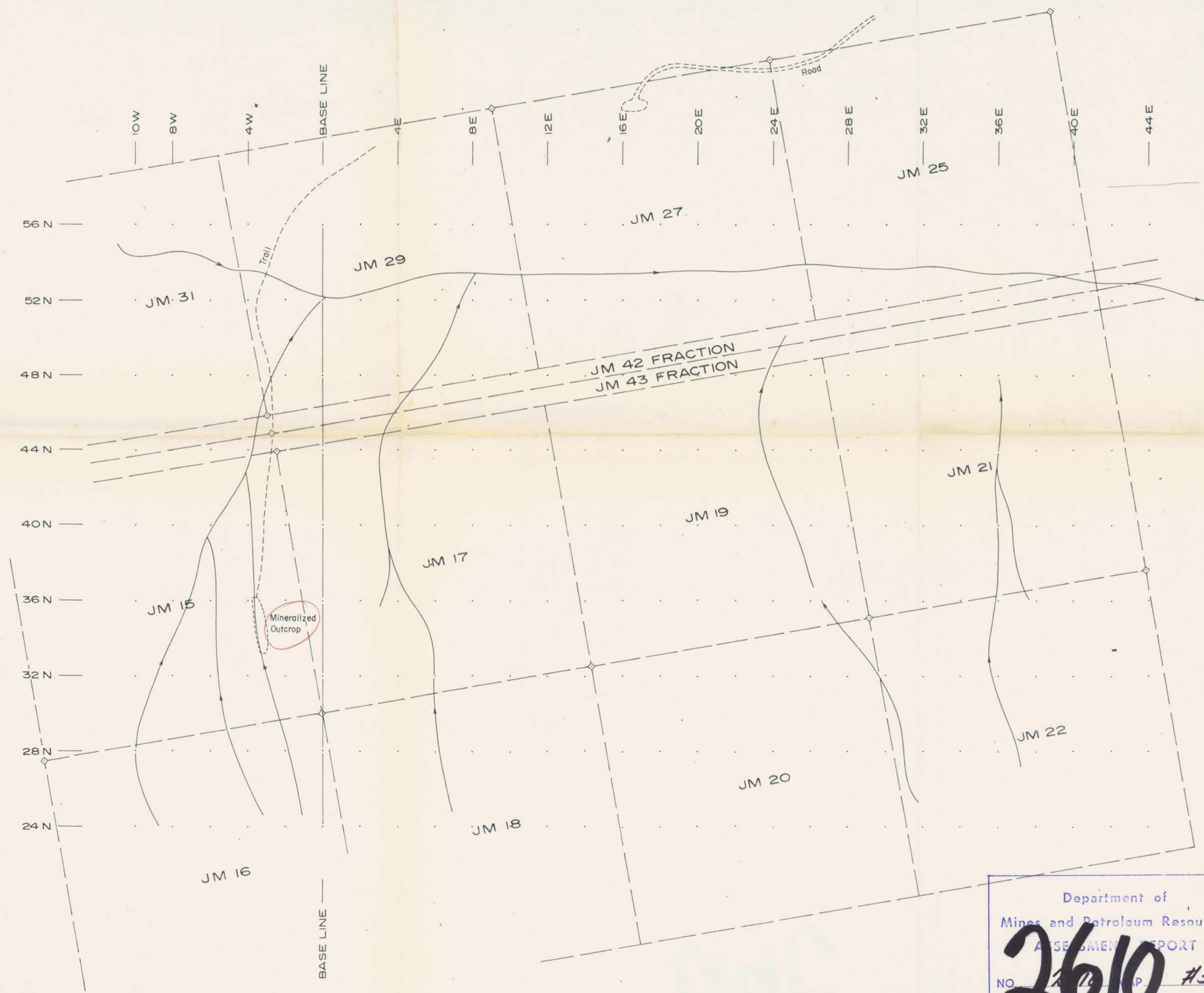
DATE RECEIVED July 24/70

DATE ANALYSED July 30/70

ATTN: Mr. Mike Stadnyk "JULIETTE CREEK"

SAMPLE NO.:	PPM	PPM
	Copper	Molybdenum
56N 28E	10	0
30	26	2
32	14	0
34	14	0
36	34	0
38	22	0
40	14	0
42	24	0
56N 44E	41	0
BL 56N	14	0
56N 2W	14	0
4	7	0
6	10	0
8	8	0
56N 10W	3	0
Std., #22	52	17

Certified by 



Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. **2610** P. #3

*M.P. Stadnyk* *E.D. Dodson*

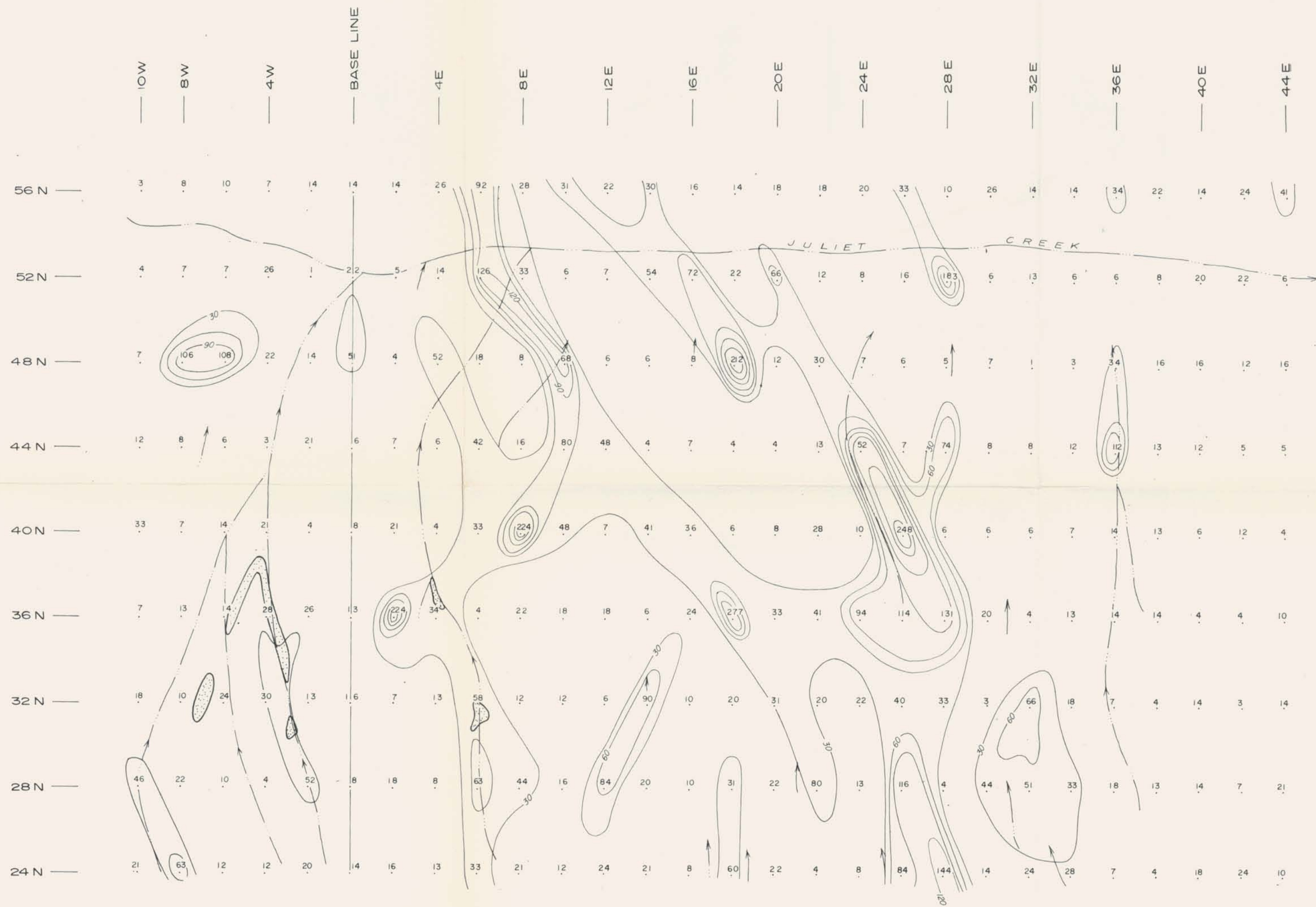
J.M. MINERAL CLAIMS  
JULIET CREEK, BC  
NICOLA MINING DIVISION

**CLAIM MAP**

SCALE: 1" = 400'



SEPT. 1970 M.P. STADNYK



Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 2610 MAP # 4

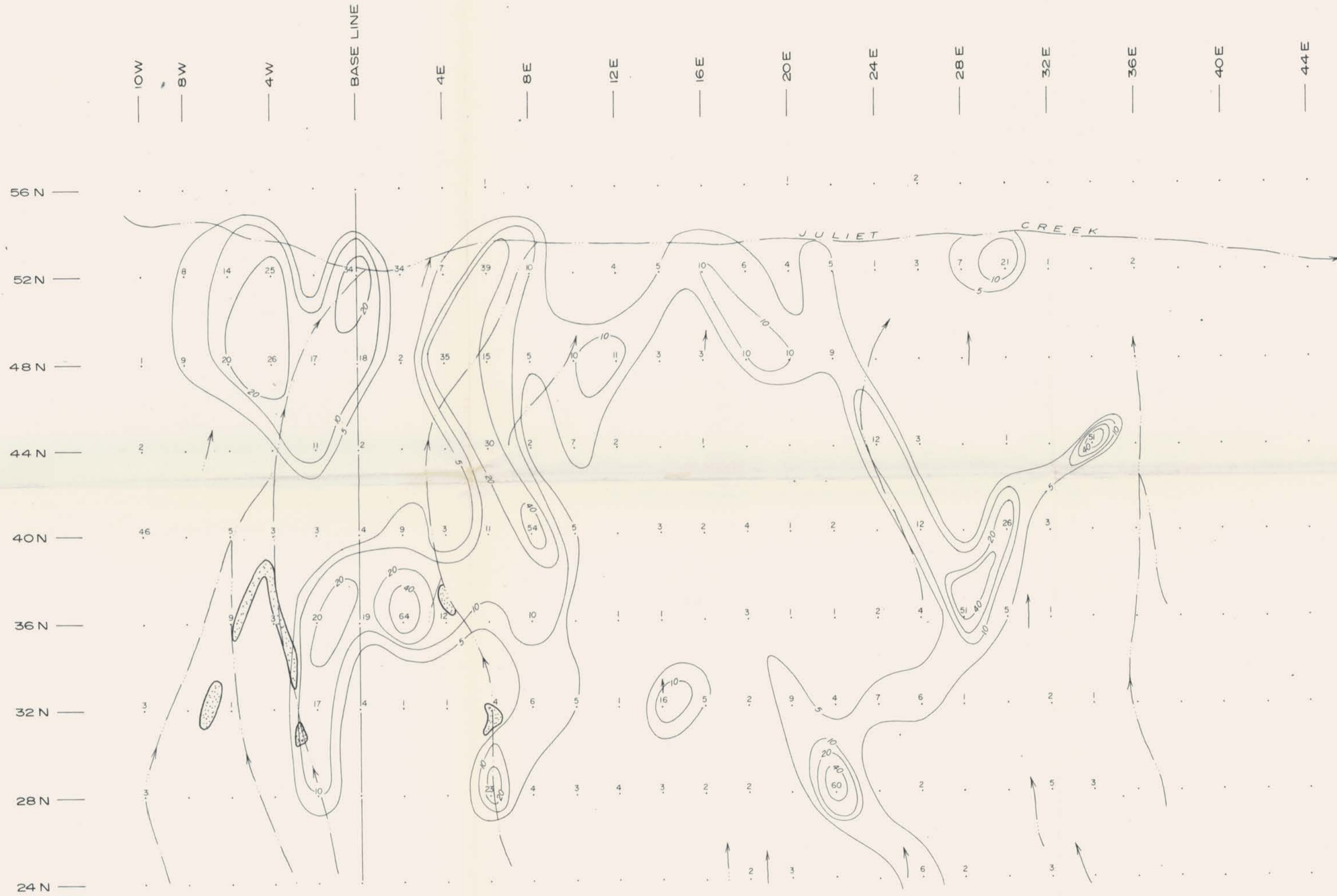
**LEGEND**  
COPPER VALUES IN  
PARTS PER MILLION  
BRECCIATED & MINERALIZED GRANODIORITE

**2610**

*M. Stodnyk & W. Dodson*


J.M. MINERAL CLAIMS  
JULIET CREEK, BC  
NICOLA MINING DIVISION  
GEOCHEMICAL SURVEY  
(COPPER)  
SCALE: 1" = 400'





Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. **2610** MAP #5

LEGEND

MOLYBDENUM VALUES IN  
PARTS PER MILLION  
 BRECCIATED & MINERALIZED GRANODIORITE

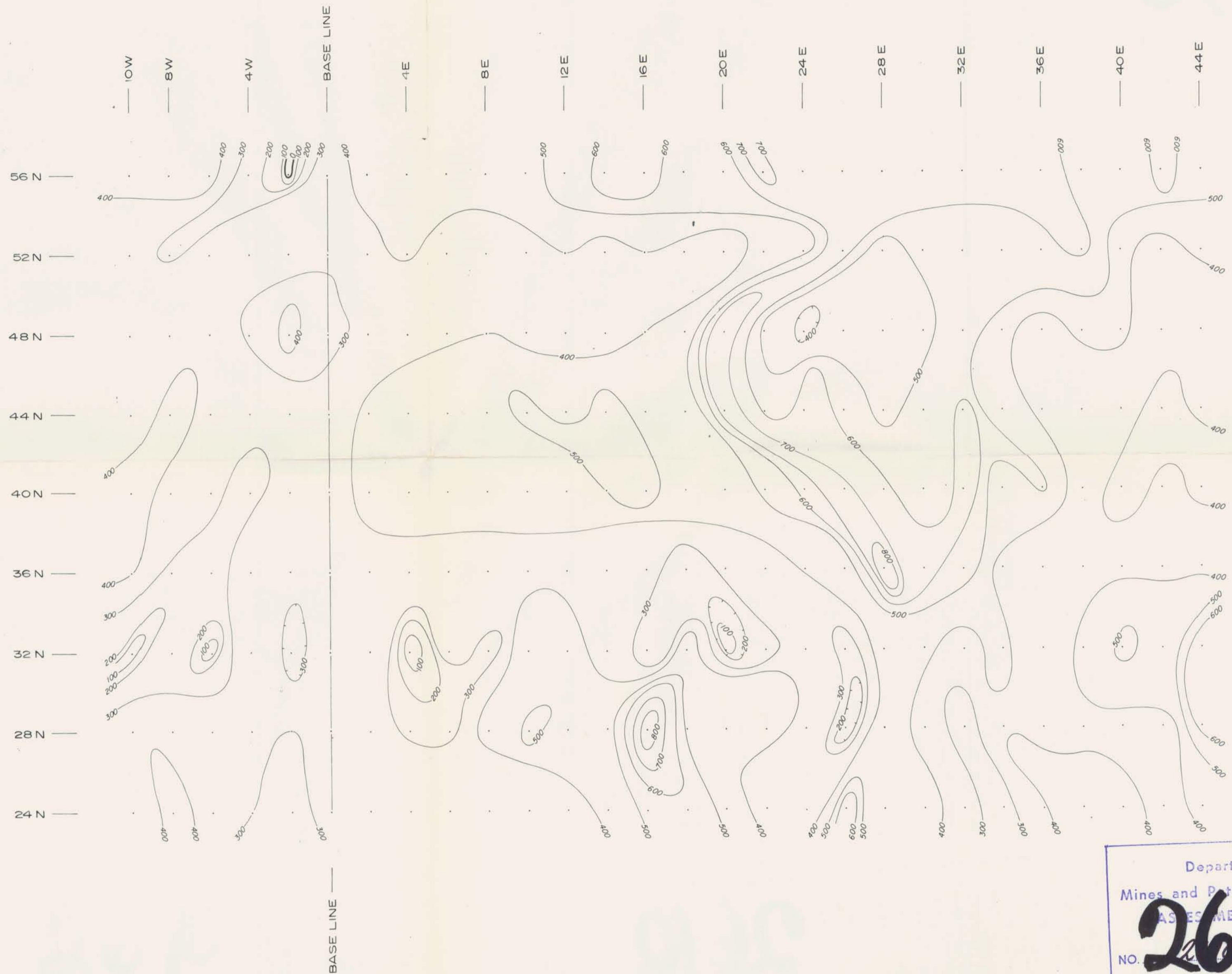
**2610**

*M. P. Stadnyk E.D. Dodson*

J.M. MINERAL CLAIMS  
JULIET CREEK, BC  
NICOLA MINING DIVISION  
GEOCHEMICAL SURVEY  
(MOLYBDENUM)

SCALE: 1" = 400'





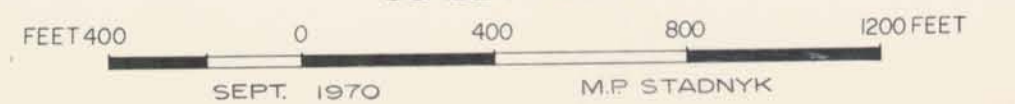
Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. **2610** #6

*And Städtynk & D. Dodson*  
J.M. MINERAL CLAIMS

JULIET CREEK, BC  
NICOLA MINING DIVISION

**MAGNETOMETER SURVEY**

SCALE 1" = 400'



LEGEND

315 MAGNETOMETER READING  
IN GAMMAS





	10W	8W	4W	BASE LINE	4E	8E	12E	16E	20E	24E	28E	32E	36E	40E	44E													
56 N			460	260	20	340	450	480	460	475	460	540	695	670	560	530	715	635	680	650	650	695	705	690	520	510	660	590
52 N	345	245	300	350	315	395	360	440	390	340	315	400	390	400	380	385	450	470	670	460	560	580	515	560	610	415	285	415
48 N	345	360	380	295	415	245	380	375	290	400	345	360	380	400	445	745	430	350	420	430	440	510	495	370	480	470	375	370
44 N	345	450	330	340	360	345	425	430	385	400	540	470	540	480	470	720	585	645	540	430	540	605	495	395	375	360	480	355
40 N	500	350	345	285	365	330	445	455	410	400	410	405	500	510	455	450	560	615	725	605	560	655	445	505	395	435	385	430
36 N	400	205	220	315	380	365	385	365	375	390	390	390	345	315	295	365	370	420	445	890	610	540	385	355	245	385	375	375
32 N	175	290	150	325	275	325	340	195	370	290	475	440	370	260	435	185	245	360	280	450	450	330	435	350	470	510	425	620
28 N	395	380	330	310	300	305	345	265	210	465	580	415	465	900	445	465	425	380	195	410	375	275	395	300	380	380	375	640
24 N	315	445	335	300	240	320	345	335	375	370	365	335	410	565	580	420	365	355	685	445	445	330	220	400	405	465	365	495

BASE LINE

Department of  
 Mines and Petroleum Resources  
 ASSESSMENT FOOT  
 NO. 2610 #1

*M. Stadnyk & D. Dodson*  
 J.M. MINERAL CLAIMS  
 JULIET CREEK, BC  
 NICOLA MINING DIVISION

### MAGNETOMETER SURVEY

SCALE 1" = 400'  
 FEET 400 0 400 800 1200 FEET  
 SEPT. 1970 M.P. STADNYK

#### LEGEND

320 MAGNETOMETER READING  
 IN GAMMAS