

Report On The  
BEL SILVER-GOLD PROSPECT  
Vernon Mining Division, B.C.  
Prepared On Behalf Of

Mineta Resources Ltd.  
800-675 West Hastings Street  
Vancouver, B.C.

By

John T. Crandall, P.Eng.  
Nevin Sadlier-Brown Goodbrand Ltd.

November 20, 1979

*50° 11' N  
118° 25' W*

MINERAL RESOURCES BRANCH  
ASSESSMENT REPORT

**8063**  
NO

SUMMARY AND RECOMMENDATIONS

The Bel claim (10 units) is a silver-gold prospect located about 60 km east of Vernon, B.C. in the Monashee Mountains. Sulfide mineralization carrying silver and gold values is spatially associated with massive quartz veining in a country rock of Triassic Slocan Group argillite. The argillite and quartz veins have been subjected to considerable deformation. Mineralization is localized irregularly in fractures and shears in the quartz veins.

Quartz vein outcrop is scattered. Three veins have been partially stripped. On the No. 1 vein a 12 m adit was driven some time in the past on what appears to have been a 15 to 60 cm wide zone of mineralization. There are no records of ore shipped from this showing. Highest metal values on the property, 32.6 oz/ton silver and 0.2 oz/ton gold, come from broken rock derived from the adit. No. 2 vein shows patchy sulfide running up to 20.3 and 0.08 oz/ton silver and gold respectively. Vein No. 3 as presently exposed shows only a trace of sulfide.

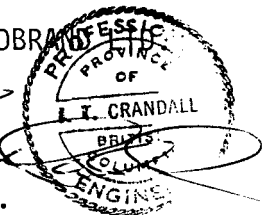
Less than 1000 m west is the Silver Horde Crown Grant. Originally developed in the early 1900's, a brief reactivation in 1978 produced about 15 tons of concentrate running 89.9 oz/ton silver and 0.65 oz/ton gold.

The property should be considered a raw prospect in the early stages of exploration. It has no known reserves of commercial ore. A modest exploration program to locate high grade silver-gold mineralization is warranted. Careful prospecting and geological mapping will establish areas underlain by quartz veining. These areas can be tested with soil geochemistry. Initial program is estimated at \$10,000.

Respectfully submitted

NEVIN SADLIER-BROWN GOODBRAND

John T. Crandall, P.Eng.



November 20, 1979

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## 1.0 INTRODUCTION

### 1.1 Terms of Reference

Nevin Sadlier-Brown Goodbrand Ltd. was retained by Mr. W. Kovacevic, President of Mineta Resources Ltd., 800-675 West Hastings Street, Vancouver, B.C., to examine and report on the Bel Claim, a silver-gold prospect on Monashee Creek, Vernon Mining Division. Property examination was made by J.T. Crandall, P.Eng., in company with W. Kovacevic on October 30, 1979. Three hours were spent on the property inspecting old workings and new bulldozer cuts. Workings on the Silver Horde Crown Grant to the west of the Bel Claim were looked at briefly. The Legal Corner Post for the Bel Claim was verified. Claim lines were not walked.

Nevin Sadlier-Brown Goodbrand Ltd. has been engaged solely to examine and report on the property and has no on-going responsibility towards management of the property or towards application of any funds raised for work on this property. Data in this report are from personal observation and sampling, from sampling done by Mr. W. Kovacevic and Mr. K.L. Daughtry, P.Eng., Vernon, B.C. and from public literature and records.

### 1.2 Property Definition

The Bel mineral claim (638(6)) was located by W. Kovacevic, Free Miners Certificate No. 175452, June 7-12, 1979, Tag No. 02194. The LCP is located on the north bank of Monashee Ck, Vernon Mining Division, latitude  $50^{\circ} 11.1'$ , longitude  $118^{\circ} 9.7'$ . The claim consists of 10 units in a 5N, 2E configuration. The claim is owned by Mineta Resources Ltd.

### 1.3 Location, Access, Physiography

The Bel claim is about 60 km east of Vernon, B.C. on the western drainage of the Monashee Mtns. Access is via paved highway from Vernon to a point 8 km east of Cherryville thence by logging road another 8 km to the southern boundary of the claim. Access to the interior of the property is by way of an old logging/mining road to the Silver Bell and Silver Horde Crown Grants. Recently Mineta Resources Ltd. built 500 m of new road and further opened up the northern portion of the property. A four wheel drive vehicle is required.

The property is on a steep southern slope thickly forested with conifers. Overburden cover is extensive but not very thick.

#### 1.4 History

Prospecting and mining for silver, gold, lead in the area dates from the turn of the century. The area is characterized by numerous showings and small mining operations.

Immediately adjacent the Bel prospect are the Silver Bell and Silver Horde Crown Grants located in 1904. Development consisted of 400 feet of surface stripping, exposing "good values in free gold and native silver" and 150 feet of drifting, tapping the quartz vein structure at about 80 feet below surface and exposing mineralization similar to that on surface. There are no records of ore shipments from this period. Apparently the workings lay dormant until 1978 when Cheyenne Mines Ltd. of Vernon, B.C. shipped 15.44 dry tons of ore to the Cominco smelter at Trail, B.C. This shipment ran 0.65 oz/ton gold, 89.9 oz/ton silver, 0.26% copper, 5% lead, 1.8% zinc and 84% silica. There have been no further shipments due to property tenure problems.

On the Bel property one of the quartz veins, termed the No. 1 in this report, has been worked in the past to the extent that an adit about 12 m long has been driven on it. There are no records of concentrate shipped but it is likely some high grading was done.

Mineta Resources Ltd. has upgraded road access to the Bel Claim and constructed up to 500 m of new road, principally south from the No. 1 vein to allow stripping a quartz vein outcrop (No. 3 vein). Limited soil sampling has been done in the vicinity of this vein. cursory prospecting has been done elsewhere in the northern part of the claim.

## 2.0 BEL PROPERTY

### 2.1 Geology

Country rock on the Bel property is argillite, part of the Sicamous Formation (Triassic Slocan Group) of metamorphosed sediments and volcanics lying between Monashee Group granitic gneiss to the northwest and Nelson Batholith granite to the south.

Overall trends within the argillite are northwesterly. Local variations are common, due to several stages of deformation.

On and adjacent the property the argillite is folded and foliated, medium to dark grey, phyllitic, with minor lighter coloured silty and limy layers. It can trend from 45 to 75 degrees and dip from 30 to 70 degrees south as well as to the northwest. Bull quartz veining has been introduced into the argillite and undergone subsequent deformation. Quartz outcrop is relatively abundant on the northern portion of the property. No attempt was made to plot these outcrops.

## 2.2 Mineralization

Mineralization is spatially associated with massive bull quartz veins. It occurs in fractures resulting from post quartz vein deformation. Vein exposures show radical variations in width, attitude, and degree and sense of offsets. Quartz vein outcrop is scattered. No systematic prospecting and plotting of outcrop has been done to date. Three veins in the northwest part of the Bel claim have been exposed, No's. 1,2,3 (See Dwg. 3 and Table 1).

On the No. 1 vein a 12 m adit, driven some time in the past, follows what was probably a 15 to 60 cm wide zone of sulfide mineralization consisting primarily of argentiferous galena and perhaps some argentite. The zone follows a fracture subaxial to a fold in the quartz vein which is lying in a vertical attitude, striking  $120^{\circ}$ . The top of the vein is sharply folded over to the southwest and is frequently offset normal to strike. High grade in the rock dump at the mouth of the adit, sampled by K.L. Daughtry in September 1979, runs 32.6 oz of silver and 0.2 oz of gold. An average sample runs 18.4 and 0.08 oz of silver and gold respectively. In driving the adit the majority of the mineralization has been removed.

No. 2 vein is several metres to the west of No. 1 vein. It also is vertical in outcrop, trending  $120^{\circ}$ . Mineralization is in the form of scattered sulfides in patches along numerous small, late fractures near the northern margin of the vein. Silver values diminish from this margin towards the southern margin. Silver and gold values range from 0.04 to 20.3 and 0.002 to 0.08 oz/ton respectively depending on the width of the sample.

Table 1. Rock Chip Sampling, Bel Property

	Silver oz/ton	Gold oz/ton	Pb %	Zn %	Description	Sampler
No. 1 Vein	32.6	0.2	-	-	ore dump, hand picked high grade	KLD
No. 1 Vein	18.4	0.08	-*	-	ore dump, hand picked average	KLD
No. 2 Vein	20.3	0.08	-	-	3" chip sample across northern margin, repre- sentative of highest grade material	KLD
No. 2 Vein	2.67	0.01	-	-	15" chip sample, ext- ension of the 3" sample into the vein	KLD
No. 2 Vein	0.04	0.002	-	-	5.5' chip sample across whole vein	KLD
No. 2 Vein	0.525	-	.072	.003	3' chip sample across whole vein	JTC
No. 3 Vein	0.003	-	.002	.002	picked sample of lim- onitic quartz with trace sulphide from bulldozer cut on downhill vein exposure	JTC
No. 3 Vein	0.12	-	.002	.004	boulders from bulldozer cut.	JTC

\* '-' indicates no analysis made.

Exposure of No. 3 vein has recently been enhanced by bulldozer stripping . From 15 to 20 m have been exposed. The vein is striking from 40 to 60 degrees and dipping about 50 degrees southeast. No identifiable mineralization has been observed beyond scattered traces of a black sulfide. Limonitic alteration material is locally present, some in sulphide casts. Grab samples of this material run from 0.003 to 0.12 oz/ton of silver.

Quartz vein material outcrops south and southwest from No. 3 vein for at least a couple hundred metres. A grab sample from one exposure, grid location 1300 N, 0E is reported to run 0.07 oz/ton gold.

The workings on the Silver Horde Claim about 1000 metres to the west of No. 1 and 2 veins reflect a similar mode of mineralization. Variably concentrated galena (and argentite ?), pyrite, and chalcopyrite occur in fractures in quartz veining of irregular width (10 cm to 80 cm) and attitude (100 to 140 degree strike, 40 to 70 degree dips north).

### 2.3 Soil Geochemistry

A limited number (55) of B horizon soil samples were taken by W. Kovacevic across the No. 3 vein to the western claim boundary and analyzed for silver and lead. Samples were spaced largely at 25 m intervals on six lines roughly 25 m apart. Response is mostly background with one spike of 0.5 ppm silver and 123 ppm lead adjacent No. 3 vein and slightly enhanced silver values (0.4 ppm) in the northwest of the grid. The survey is too restricted to allow firm conclusion but it does suggest that, with care and attention to sample spacing, soil geochemistry is a useful tool in discriminating mineralized sections of vein.

## 3.0 EXPLORATION

### 3.1 Program

Extent, attitude and quality of quartz veining over the Bel claim should be established through careful prospecting and geological mapping. A soil geochemical sampling program could then be applied to areas where quartz veins are known and projected, beginning with orientation survey over the No. 1 and



- 5 -

2 veins to determine an effective sample density and suite of elements to analyze for. For example cobalt might be an effective tracer. Targets identified could be tested with trenching and stripping in a subsequent program.

### 3.2 Cost Estimate

#### STAGE I

Geologist and assistant (4 days @ \$350)	\$ 1,400
Soil Samplers (2 men, 10 days @ \$200/diem)	2,000
Sample Analysis (800 @ \$4.50)	3,600
Room and Board (28 man days @ \$30)	840
Transport	500
Reporting and miscellaneous	750
	<u>\$ 9,090</u>
plus 10%	909
	<u>\$ 9,999</u>
say	<u>\$10,000</u>

#### STAGE II (contingent on Stage I)

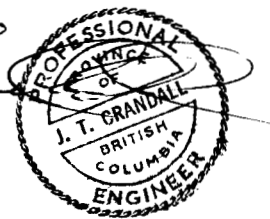
Trenching, stripping, sampling, and analysis	<u>\$15,000</u>
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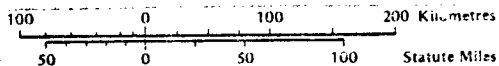
TOTAL Stages I & II \$25,000

Respectfully submitted

NEVIN SADLIER-BROWN GOODBRAND LTD.

John T. Crandall, P.Eng.



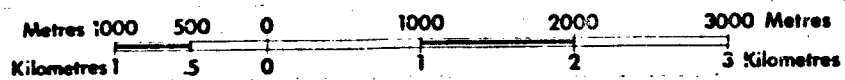
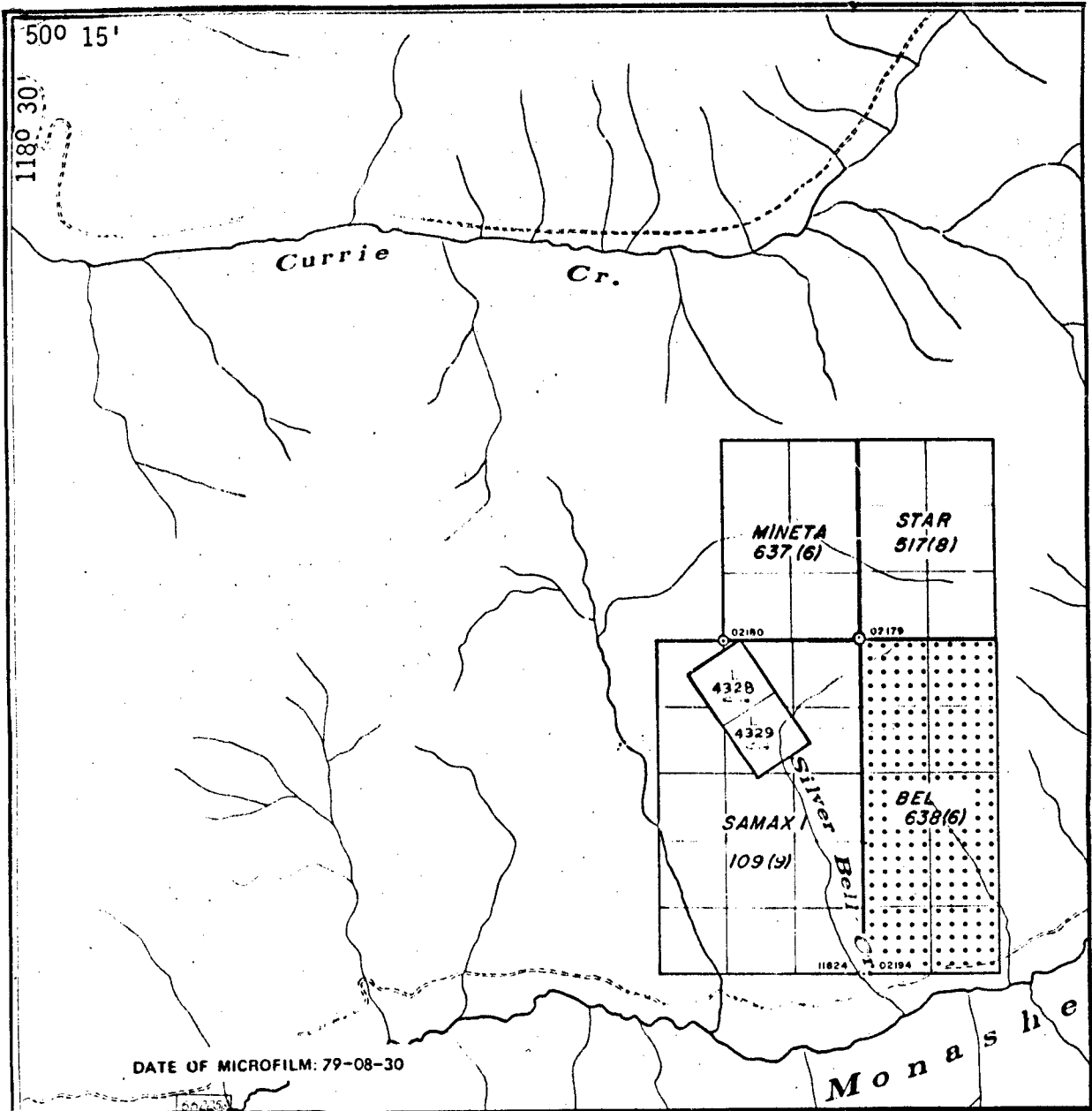


Mineta Resources Ltd.

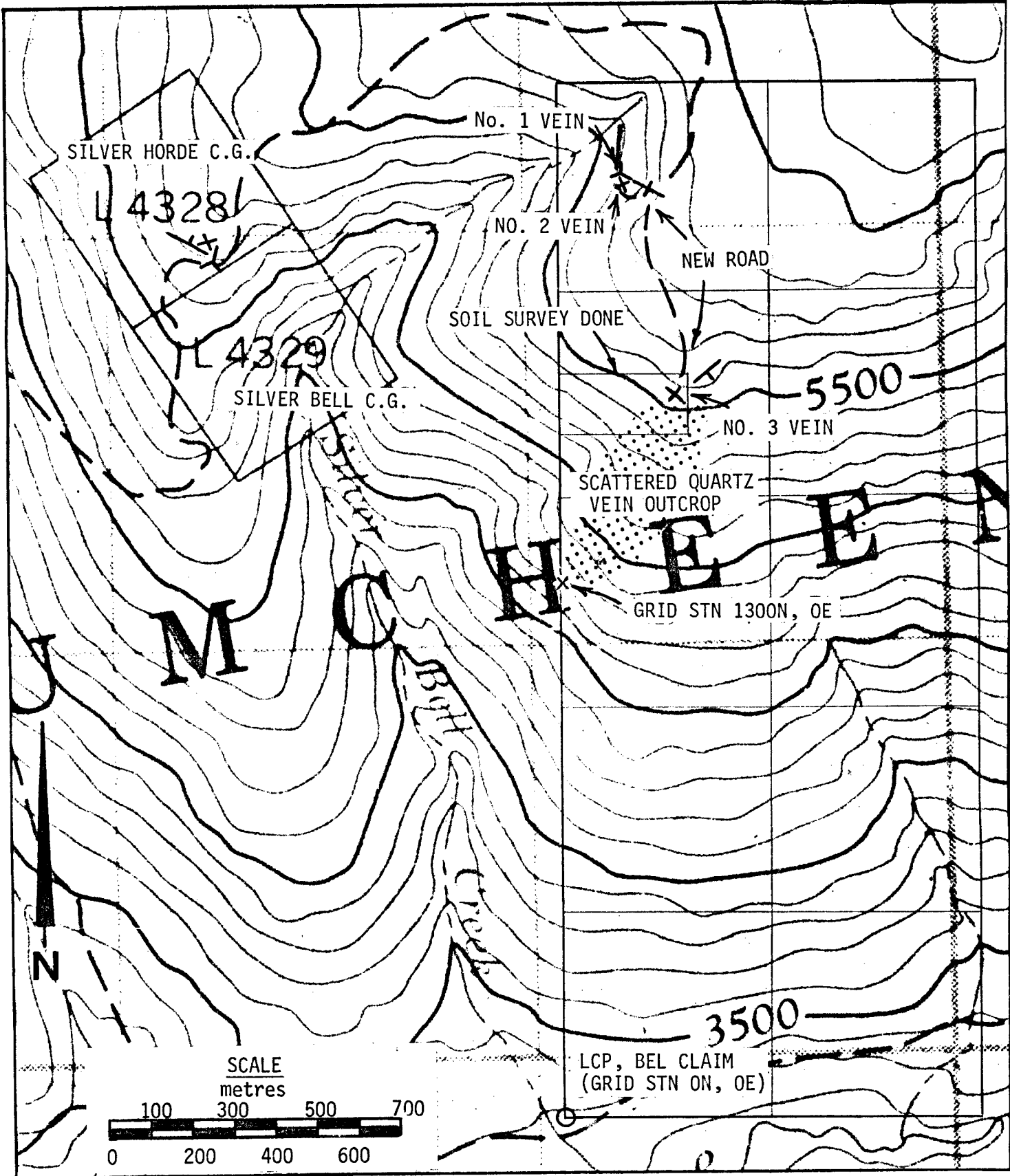
BEL PROPERTY

Vernon Mining Division




LOCATION MAP



Mineta Resources Ltd.  
 BEL PROPERTY  
 Vernon Mining Division  
 CLAIM MAP



LEGEND

-  adit
-  vein
-  average strike/dip of vein

Mineta Resources Ltd.

BEL PROPERTY

Vernon Mining Division

ORIENTATION MAP



# can test ltd.

1650 PANDORA STREET, VANCOUVER, B.C. V5L 1L6 • TELEPHONE 254-7278 • TELEX 04-54210

Report On Geochemical Analysis File No. 2820 D  
Reported To Mineta Resources Ltd., Report No. \_\_\_\_\_  
800 - 675 W. Hastings Street, P.O. # \_\_\_\_\_  
Vancouver, B.C. Date Nov. 6, 1979.  
Attention: Mr. W. Kovacevic

Fifty-five (55) samples

<u>SAMPLE IDENTIFICATION</u>	<u>SILVER</u> <u>PPM Ag</u>	<u>Lead</u> <u>PPB Pb</u>
1650 N + 00 W	L 0.1	47.
1650 N + 20 W	L 0.1	43.
1650 N + 40 W	L 0.1	43.
1650 N + 60 W	L 0.1	34.
1650 N + 80 W	L 0.1	29.
1650 N + 100 W	L 0.1	28.
1650 N + 120 W	L 0.1	28.
1650 N + 140 W	L 0.1	30.
1650 N + 160 W	L 0.1	30.
1675 N + 00 E	L 0.1	26.
1675 N + 20 E	L 0.1	30.
1675 N + 40 E	L 0.1	35.
1675 N + 60 E	L 0.1	37.
1675 N + 80 E	L 0.1	40.
1675 N + 100 E	L 0.1	32.
1700 N + 0 E	L 0.1	28.
1700 N + 50 E	L 0.1	38.
1700 N + 75 E	L 0.1	27.
1700 N + 100 E	L 0.1	30.
1700 N + 125 E	L 0.1	31.
1700 N + 150 E	L 0.1	30.
1700 N + 175 E	L 0.1	35.
1700 N + 200 E	L 0.1	28.
1700 N + 225 E	L 0.1	40.
1700 N + 250 E	L 0.1	52.

L = less than

SAMPLE IDENTIFICATIONSILVER  
PPM AgLEAD  
PPM Pb

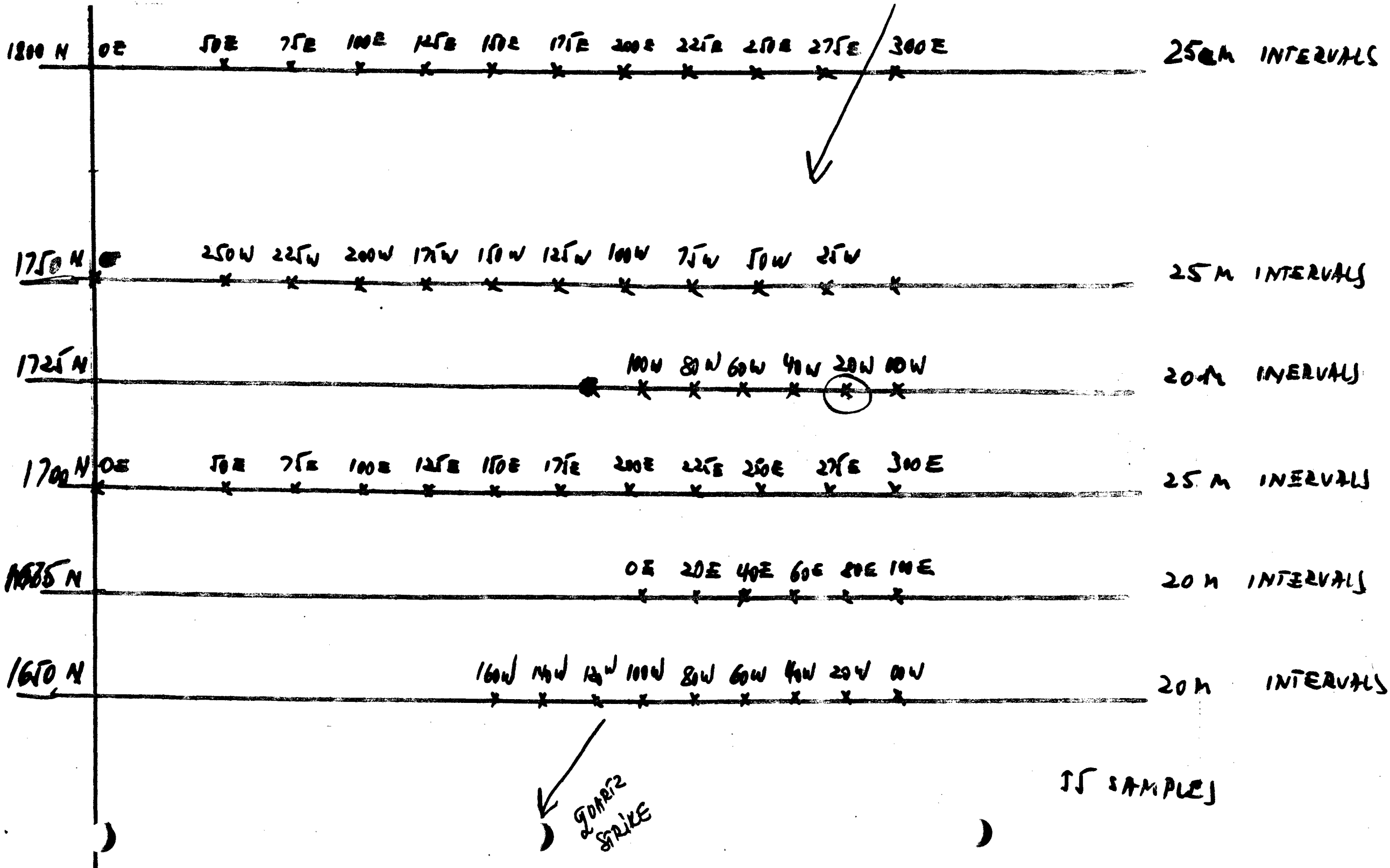
1700 N + 275 E	L 0.1	25.
1700 N + 300 E	L 0.1	25.
1725 N + 0 W	L 0.1	32.
1725 N + 20 W	0.5	123.
1725 N + 40 W	L 0.1	27.
1725 N + 60 W	L 0.1	30.
1725 N + 80 W	L 0.1	33.
1725 N + 100 W	L 0.1	25.
1750 N + 25 W	L 0.1	42.
1750 N + 50 W	L 0.1	32.
1750 N + 75 W	L 0.1	26.
1750 N + 100 W	L 0.1	33.
1750 N + 125 W	L 0.1	29.
1750 N + 150 W	L 0.1	30.
1750 N + 175 W	L 0.1	30.
1750 N + 200 W	0.3	22.
1750 N + 225 W	0.3	25.
1750 N + 250 W	0.2	32.
1800 N + 0 E	L 0.1	19.
1800 N + 50 E	0.4	40.
1800 N + 75 E	0.4	22.
1800 N + 100 E	0.1	30.
1800 N + 125 E	0.3	40.
1800 N + 150 E	0.4	20.
1800 N + 175 E	0.3	27.
1800 N + 200 E	L 0.1	21.
1800 N + 225 E	L 0.1	20.
1800 N + 250 E	0.3	35.
1800 N + 275 E	0.2	29.
1800 N + 300 E	L 0.1	17.

L - Less than

CAN TEST LTD.

F. C. Burgess,  
Chief Assayer.

/dn



APPENDIX A - REFERENCES

Daughtry, K.L., P.Eng., personal communication

Okulitch, A.V., G.S.C. Open File 637; Geol. and Mineral Occurrences  
of the Thompson-Shoswap-Okanagan Region.

Report of the Minister of Mines 1905, pg. G228, and 1915, pg K360

Smelter Settlement Sheet, Serial No. 8430-C, Cominco Ltd., Trail,  
British Columbia, 15 June 1978.

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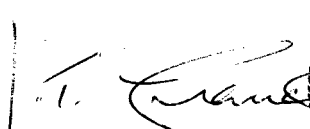


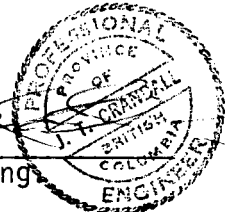
APPENDIX B

QUALIFICATIONS OF THE AUTHOR

I, John T. Crandall, hereby certify that:

1. My residence address is 2-1338 Arbutus Street, Vancouver, B.C., my office address is Suite 401-134 Abbott Street, Vancouver, B.C., V6B 2K4; and that I am a Geologist by occupation.
2. I hold a B.Sc. in Geological Engineering from the University of Toronto, Ontario. I have been practicing my profession since 1970, and I am a member of the Association of Professional Engineers (Geological) of the Province of British Columbia.
3. I have examined the Bel Mineral Claim and reviewed the data thereon personally.
4. I hold no direct or indirect beneficial interest in the above property nor in the securities of Mineta Resources Ltd.
5. I authorize Mineta Resources Ltd. to use this report in a prospectus or Statement of Material Facts to be vetted to the Vancouver Stock Exchange and/or the B.C. Superintendent of Brokers, and to distribute all or parts to shareholders or other interested parties, provided the meaning is not changed by partial quotes.

  
John T. Crandall, P.Eng



November 20, 1979

Suite 401 - 134 Abbott St., Vancouver, B.C. Canada V6B 2K4 (604) 683-8271

To	Date	Number
<p>Mineta Resources Ltd. 800-675 W. Hastings Street Vancouver, B.C. V6B 1N2</p> <p>Professional Services <u>RE: PROPERTY EXAMINATION</u></p> <p><u>FEES</u></p> <p>J.T. Crandall, Time sheet, Oct. 29-Nov. 21 H. MacDonald, Time sheet, Nov. 20-21</p> <p><u>DISBURSEMENTS</u></p> <p>J.T. Crandall, Expense sheet, Oct. 29-Nov. 21 BowMac Truck Rentals, #48664 Top Priority Travel, #15496 Chemex Labs, #33812 Superior Reproductions, #R 96570</p> <p><u>EQUIPMENT RENTAL</u></p> <p>70 photocopies @ \$0.15</p> <p>Less: Advance</p> <p style="margin-left: 200px;"> <i>PROS. 1292.31</i>  <i>LABS. 151.25</i>  <i>PHYS. 1063.75</i>  <i>2507.31</i> </p> <p style="margin-left: 100px;"><i>TEK.</i></p>	<p>Nov. 21, 1979</p> <p>9-38</p> <p>\$ 1,044.00 49.50</p> <p>TOTAL FEES 1,093.50</p> <p>50.40 66.87 29.52 12.15 12.25</p> <p>Sub-total 171.19 10% burden 17.12</p> <p>TOTAL DISBURSEMENTS 188.31</p> <p>10.50</p> <p>Sub-total 1,292.31 (800.00)</p> <p>492.31</p> <p>Total \$ 492.31</p>	

Terms: Net 15th following. 1½% per month (18% per annum) charged on overdue accounts.



(To be Retained in Office)

# BRITISH COLUMBIA MINING RECEIPT

Division Miner

at Manawa

No 144696 E

Date June 10, 1922

RECEIVED from Smith & Sons Ltd.

Twenty Dollars,

of Twenty (20000) to

pay "BEL" mineral

Signature Spicer

Office

SUB-RECORDER