NTS 82 L
840882
Property Submission:
Spar Group

July 27, 1971.

Mr. John K. Campbell,
306 - 540 Burrard Street,
Vancouver 1, B.C.

Dear Mr. Campbell:

Re: Spar Group of Claims, Lumby - British Columbia, Boraway Mines Ltd. N.P.L.

Mr. John A. Polleck of Pioneer Consultants, Haileybury, Ontario submitted to us a proposal by Boraway Mines Ltd. on an uraniferous pegmatite in the Vernon area of British Columbia.

We regret very much that we have to decline this opportunity because pegmatites are somewhat low in priority in our plans and we could retain only a minority interest at the present time.

We are returning herewith the data forwarded to us by Mr. J. A. Pollock and wish you well in this endeavour. Thank you very much for thinking of the Gulf Companies.

Very truly yours,

H.D. Knipping
for F. C. Perry,
Manager, Exploration

HDK/il
Encl.

MEMORANDUM

GULF D-3-A

pls make a copy for our files of the report.

DATE

TO ~~AAM/D~~ → ~~HDK~~

FCP for your signature

ROOM

BLDG.

- [ ] PER OUR CONVERSATION
- [ ] FOR YOUR INFORMATION
- [ ] FOR YOUR APPROVAL
- [ ] FOR YOUR SIGNATURE
- [ ] FOR YOUR COMMENTS
- [ ] FOR DISCUSSION
- [ ] PER YOUR REQUEST
- [ ] FOR DISTRIBUTION
- [ ] FOR YOUR FILE
- [ ] PLEASE SEND ME FILE

PLEASE RETURN TO: Croce

return data with

FOR ACTION:

REMARKS: nice turn down letter for my signature

- Returning data forwarded to us by folks of Pioneer
- Can retain minority interest only
- pegmatites of somewhat low priority in our plans
- wish well in this endeavour
- thanks for thinking of Gulf Cos.

F.C.P.

Pioneer Consultants Ltd.,
P.O. Box 39,
Haileybury, Ontario

June 18, 1971.

Gulf Minerals Canada Ltd.,
Suite 1300,
10 King Street East,
Toronto, Ontario

Attention: Mr. Fred Perry

Dear Fred:

While in Vancouver on other affairs some people submitted a uranium prospect to me. Our clients are not interested in uranium prospects at this time, but I thought that it could be of interest to you people. I called Al McDermid and discussed it briefly with him and told him that I would forward some information to you.

Enclosed is a prospectus of the company that holds the property. You will note the obligations that the company has to the vendors of the property. I believe that the payments are rather onerous, but these can be renegotiated if you have any interest in them.

If you are interested in looking at this prospect you could contact John K. Campbell, a lawyer friend of mine at Suite 306 - 540 Burrard Street, Vancouver,1, B.C. Telephone 684-2348 and he can arrange for their consultants to take you to the property.

Yours truly,
Pioneer Consultants Ltd.,

John A. Pollock, P.Eng.

cc: Mr. John K. Campbell,
306-540 Burrard Street,
Vancouver 1, B.C.

cc: Mr. G.R. Cunningham-Dunlop,
Box 39,
Haileybury, Ontario.

082LSE015

Similar to ~~Maybe~~ AR 3434
but not the identical

REPORT ON THE SPAR GROUP OF CLAIMS

Lumby, British Columbia
Location approximately 50° 15' Lat.
118° 47' Long.

for

BORAWAY MINES LTD N.P.L.

April 1971

J.R. Glass, B.Sc.

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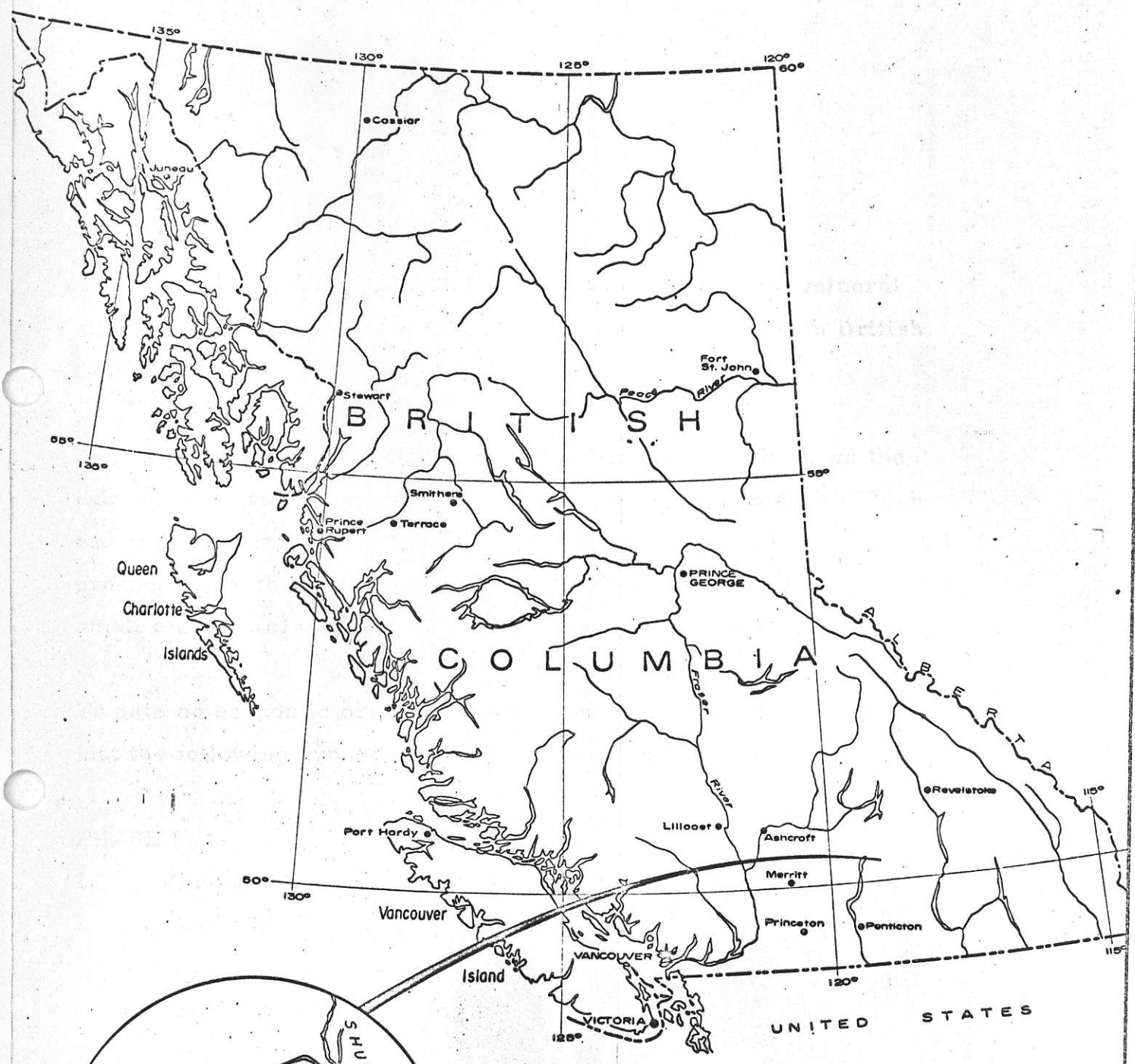
MAPS

APPENDICES



BORAWAY MINES LTD.

PROPERTY LOCATION MAP

SUMMARY

The Boraway Mines Ltd. N. P. L. property consists of 33 mineral claims located some seven miles east of Lumby in southern British Columbia.

Recent prospecting including minor scintillometer work shows the existence of uranium mineralization associated with an area of high radiometric readings hosted by a large mass of pegmatite. Limited prospecting with ultra violet lamps shows a widespread zone containing small amounts of uranium salts surrounding the known mineralization.

To date no economic ore zones have been indicated. It is recommended that the following prospecting work be done on the property:

PHASE I

1. Line Cutting
2. Geological mapping
3. Radiometric surveys
4. Trenching and sampling
5. Radon gas survey
6. Preliminary percussion drilling.

PHASE II

If results of this survey are encouraging a second phase program is envisaged. This will be a Phase II program which would be mainly diamond drilling.

It is anticipated that the budget for this program will be as follows:

Phase I	$ 73,000.00

If Phase II of the program is initiated a budget of $120,000.00 should suffice.

Total Phase I and Phase II	$193,000.00

CONCLUSIONS

1. Evidence of sporadic uranium mineralization has been found in bedrock over an area approximately one mile by 600 feet. The limits of this zone have not yet been determined.

2. Limited work using a McPhar TV-1 Integrating Spectrometer show that portions of this main zone are highly radioactive (more than 100 times background) and are surrounded by larger areas of moderate radioactivity (3 to 10 times background) The size of these radioactive zones has not been determined.

3. A number of chip and grab samples analyzed by different laboratories have returned values in U_3O_8 ranging from .001% to 0.236%. These samples have been taken near surface from within 1000' of the main prospect area. The uranium bearing minerals have not been identified.

4. Semiquantitative spectrographic analysis has indicated the presence of rare earth materials in association with the uranium mineralization.

5. Limited work with ultra violet lights has indicated extensive areas in the pegmatite which contain small amounts of fluorescent uranium salts. Since some of these areas surround the zones of known high radioactivity it is anticipated that they can be used to trace the source of some of the primary mineralization.

6. The geological setting for all of the uranium mineralization and the high radioactive zone is a coarse pearly white massive pegmatite, one of a series of pegmatite emplaced among rocks of

the Monashee group. The boundaries of this mass of pegmatite are unknown but examination of outcrop to date suggests that this large body is more than one mile long and of unknown thickness; outcroppings can be seen over a width of more than 1000 feet, with relief in the order of 400 feet. Overburden masks the flanks, but other pegmatite outcrops suggest that the formations may be of much larger dimensions.

7. The results of the work to date show that a detailed geological-geophysical examination of the property is warranted.

RECOMMENDATIONS

PHASE I

1. Cut, chain and picket lines 400 feet apart with chainage markings placed at 100 foot intervals. Stations at 200 feet should be marked on the base line.

2. Perform a scintillometer survey along these lines using a station interval of 50 feet. Measurements should be made with gamma ray integrating spectrometer capable of measuring the radioactivity caused by uranium, thorium and potassium.

   Detailed follow up work should be done on anomalous areas along lines spaced 100 feet apart.

3. A survey using ultra violet lamps should be made along the picket lines to determine the relative amounts of uranium salts in the surface bedrock.

4. Detailed geological mapping should be carried out over the property in an effort to correlate uranium mineralization with geological features.

5. The areas of overburden should be examined and surveyed to determine the movement of boulder trains in an effort to locate the source area of any buried uranium mineralization. This survey should be done with the scintillometer and the ultra violet light. The overburden in suspected source areas of uranium mineralization should then be surveyed using the radon gas method.

6. Trenching, blasting and sampling should be done in areas known

7. The bedrock under areas containing uranium mineralization should be sampled to some depth by percussion drilling. It is expected that 1500 feet of drilling would be sufficient to test these structures at depth.

PHASE II

If the results of the above program are positive it is anticipated that a program of detailed diamond drilling would be carried out.

BUDGET FOR PROPOSED PROGRAM

PHASE I

1.	Line Cutting	
	40 miles at $100/mile	$ 4,000.00
2.	Scintillometer surveys	
	40 miles at $150/mile	6,000.00
	Detailed surveys	2,000.00
3.	Ultra violet lamp surveys	
	40 miles at $100/mile	4,000.00
	Detailed work	1,000.00
4.	Geological mapping	6,000.00
5.	Overburden surveys	2,000.00
	Radon gas survey	2,000.00
6.	Trenching, blasting and sampling	15,000.00
7.	Percussion drilling 1500' at $5/foot	7,500.00
	Sampling	1,000.00
	Drill pads and roads	3,000.00
	Engineering supervision and reports	5,000.00
	Travel	500.00
	Living and accommodation	4,000.00
	Vehicles	4,000.00
	Contingencies - 10%	6,000.00
	TOTAL	$73,000.00

PHASE II

Diamond drilling program 20 drill holes to a depth of 500 feet or 10,000 feet at $12/foot	$120,000.00

INTRODUCTION

.Boraway Mines Ltd. N. P. L. is the beneficial owner of a group of mining claims located in the Vernon Mining Division some eight miles east of Lumby, southern British Columbia.

At the request of Mr. John Luttin, President of Boraway Mines Ltd N. P. L. the writer spent three days during the month of April 1971 carrying out preliminary field investigations over part of the claim group, as well as reviewing the previous work done by the claim owners.

The results and discussions which follow are based on work done by the writer, from a report written by J. S. Vincent dated February 22, 1971 and from G. S. C. Memoir 296.

PROPERTY AND LOCATION

The property consists of 33 mineral claims located in the Vernon Mining Division some eight miles east of the town of Lumby, British Columbia at 50° 15'N, 118° 47'W.

The claims are owned by Boraway Mines Ltd N. P. L. and are in good standing until October-November, 1971.

The claims are listed as follows:

Claim Name	Record Number
Spar 1, 2, 5, 8, 12, 14	14725-14731 incl.
Spar 15, 16, 18, 20, 22, 25, 27, 29	14749-14756 incl.
Spar 2, 4, 6, 7, 9, 11, 13	14732-14738 incl.
Spar 17, 19, 21, 23, 24, 26, 28	14757-14763 incl.
Spar 30, 31, 32, 33	14839-14842 incl.

HISTORY

The property was prospected sometime in the past for the industrial minerals - feldspar and quartz. In October of 1970 the property was staked by prospectors B. Bechtel and L. Williams of Penticton when it was discovered that parts of the pegmati te zone showed high radio-activity when scanned with a scintillometer.

During the month of February 1971 the property was examined by D. W. Pringle and Associates and a report was prepared by Mr. John Vincent, P. Eng.,

During the month of April 1971 additional blasting and trenching was done by prospectors employed by Boraway Mines Ltd. N. P. L. After this work was done the writer visited the property.

REGIONAL GEOLOGY

The rock formations of the region consists of Precambrian schists and granite gneiss, part of the Monashee Group. These rocks were intruded by granitic rocks of the Coast Intrusion; Jurassic to Cretaceous in age. Overlying these are Tertiary volcanic rocks of the Kamloops group.

A series of pegmatites have been found in the area. It is believed that some of these pegmatites are pre-Permian in age and some are allied to Mesozoic intrusions. Locally, pegmatite is the dominant rock type and is reported as both concordant and disconcordant masses.

A series of north-easterly trending faults cut both the formations and a series of earlier north-westerly trending faults. Fold axis are in a general east-west direction.

LOCAL GEOLOGY

The rock underlying the claim group consists of extensive zones of massive pearly white coarse pegmatite and small dyke bodies of gneissic material which is felt by the writer to be foliation as a result of shearing in the pegmatite host. Megascopically the pegmatite consists of crystals of k-feldspar with irregular masses of white to dark grey quartz, books of fine to very coarse biotite, zones and books of muskovite and minor amounts of garnet.

The pegmatite does not have apparent lineation or direction and appears as a large mass and not as a dyke or a series of dykes. Neither the aerial extent or the apparent thickness of the pegmatite is known at this time but fairly continuous pegmatite outcrops have been traced over a mile in length in an east westerly direction and intermittently over a width of more than 1000 feet with a relief of approximately 400 feet. Overburden masks the down slope extensions of the pegmatite but pegmatite boulders in the valley over one half mile north-west of the main showing suggest a much larger mass than has currently been noted. Future geological mapping will delineate this mass.

MINERALIZATION

(a) Uranium

It has been demonstrated that uranium mineralization occurs intermittently over an area of approximately one mile by 600 feet and that all of the mineralization found to date has been hosted by the pegmatite. The ultimate size of this zone however is unknown since the very limited

prospecting work done on the property has been limited to this small area.

The uranium mineralization appears to be in two forms:

1. Primary uranium mineralization which has been identified as U_3O_8 by various laboratories using wet analysis.

2. Secondary uranium salts which have been identified using ultra violet light.

The primary uranium mineralization identified to date appears to be associated with both coarse books of biotite in the massive pegmatite and with small zones of dense dark grey finer grained material of uncertain direction which appears to occur as streaks in the pegmatite. Grab samples and chip samples from three blast areas or trenches over a length of approximately 1000 feet which were selected by the prospectors who staked the claims have returned uranium values as high as 0.236% U_3O_8. John Vincent in his report of February, 1971 states that the prospectors appear to be competent in their sample selection and that his work with an integrating gamma ray spectrometer confirmed the high uranium content in samples from the bed rock of these trenches.

The writer took chip samples from one of the blast areas which are listed as follows:

Sample No.	Remarks	U_3O_8
28476C	chips from east end of trench over 2.5'	0.104 %
28480C	Repeat of No. 28476C	0.15 %
28477C	Chips from middle of trench over 5'	0.03%
28481C	Repeat of No. 28477C	0.038%

Sample No.	Remarks	U_3O_8
28478C	Chips from middle of trench over 5'	0.024%
28482C	Repeat of No. 28478C	0.026%
28479C	Chips from west end of pit over 4'	0.015%
28483C	Repeat of No. 28479C	0.007%
28484C	Separate small pit 10' west of main pit Chips over 3.5'	0.017%
28485C	Repeat of No. 28484C	0.020%
28486C	Small pit 35'west of sample No. 84. Chips over 5	0.045%
28487C	Repeat of No. 28486C	0.057%

A copy of these analyses is included with this report.

The ratio of thorium to uranium in the samples ranges from 6:1 to 12:1. If this ratio remains constant in any ore zone developed during future work there is a possibility that a metalurgical problem will be encountered in extracting the uranium mineralization.

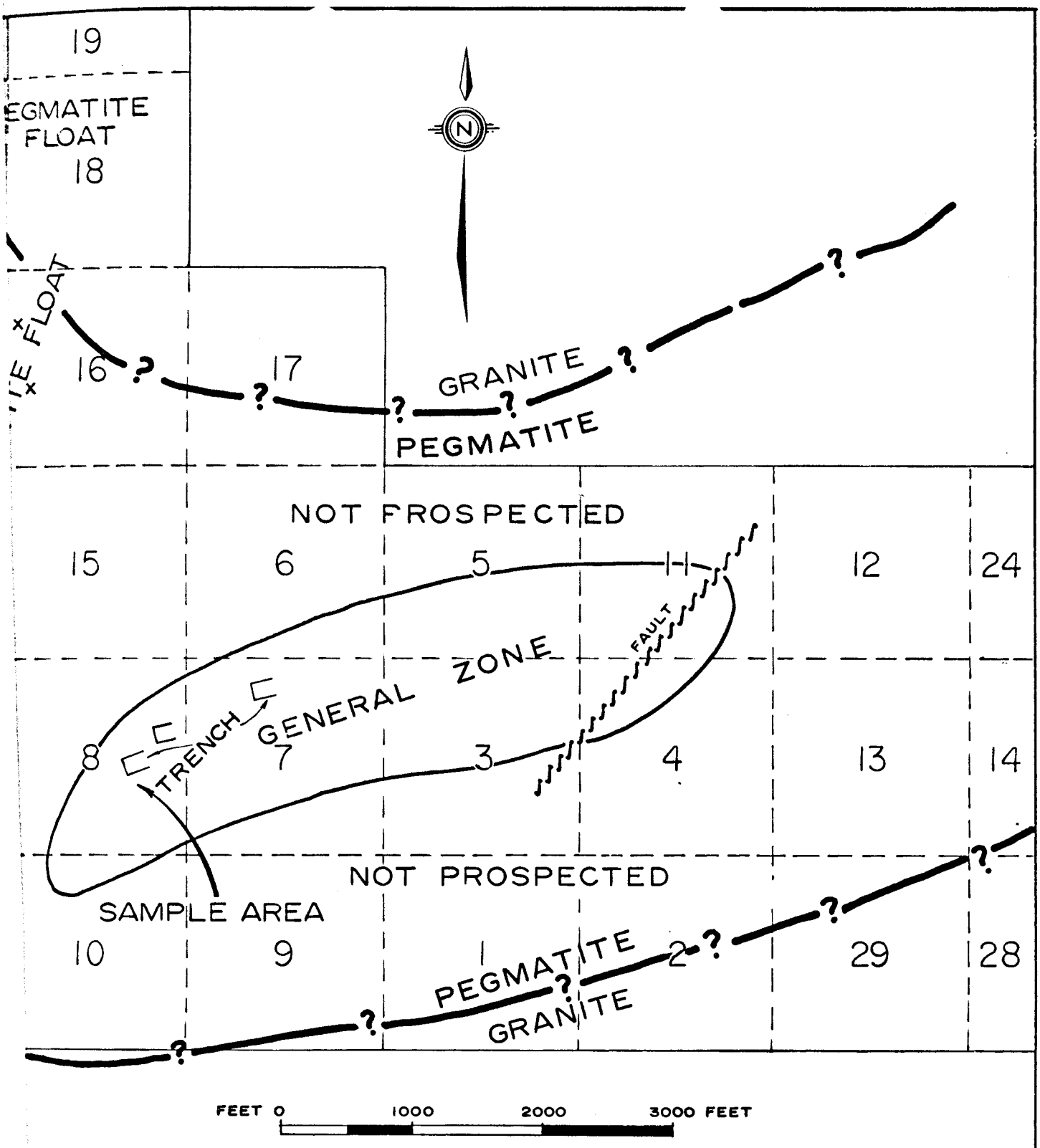
The secondary mineralization which consists of fluorescent uranium salts has been seen in varying amounts in the pegmatite over a length of one mile. Near the blast areas and trenches these uranium salts are very spectacular and can be seen as large areas coating both the quartz and the feldspar crystals.

The limits of the area containing uranium salts have not been determined. Future work will be directed towards finding the size of this area and the source of the primary mineralization causing such a widespread secondary halo.

(b) Rare Earth

A number of samples have been analyzed for rare earths and have returned high content in these materials.

At this stage no check work or metallurgical work has been done. Preliminary indications however in dicate that careful sampling and metallurgical work should be carried out to assess the true value and the feasibility of extracting this material from source.



BORAWAY MINES LTD.

SKETCH SHOWING GENERAL ZONE CONTAINING URANIUM SALTS & RADIOACTIVITY

JAMES R. GLASS, CONSULTING GEOLOGIST

Radioactivity

The high radioactive values around the known uranium mineralization is easily demonstrated to even the casual visitor. John Vincent in his report dated February, 1971 states that he measured anomalous radioactive counts from the rocks at approximately 15 different locations in the vicinity of the trench areas and this can be attributed to uranium mineralization. The writer confirmed this fact and in traversing the hill along a one mile length, found a number of "hot spots" surrounded by larger areas of moderate radioactivity.

Using a McPhar TV-1 integrating spectrometer the writer made the following measurements:

Background	generally 50 to 70 c.p.m.	
Moderate areas	dimensions generally in the hundreds of feet - but size unknown	200 - 500 c.p.m.
Hot Spots	dimensions from inches - to a few feet.	500 - 40,000 c.p.m.

To date no exact measurements and surveys have been done so the size and the number of these zones are unknown. Future work will delineate and outline these areas.

ECONOMIC CONSIDERATIONS

To date the information on the Boraway claims suggests that there is the possibility of a large zone of low grade uranium mineralization as exemplified by a widespread area containing secondary uranium salts and surrounding areas of moderate to high radioactivity. These zones are hosted by what appears to be a large mass of pegmatite.

Since uranium is very unstable at surface there is the possibility that extensive leaching has occurred and the primary source of mineralization is at depth.

The exploration program recommended in this report is designed to measure and determine these two possibilities.

Respectfully submitted,

James R. Glass, B.Sc.,

CERTIFICATE

I, James R. Glass of 910 Ash Street, Vancouver, B.C. certify that:

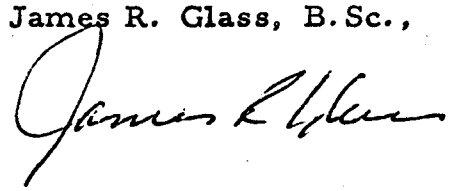
1. I graduated from McGill University in Montreal in 1961 and hold a Bachelor of Science in Geology.

2. I am a Fellow of the Geological Association of Canada, a member of the American Institute of Engineers and have practised my profession continuously for nine years.

3. I have based the Conclusions and Recommendations this report on experience and knowledge gained during my work on the property between April 17th and 25th 1971 and on the results and discussions with the claim owners and by the report written by John Vincent, P. Eng.,

4. I hold no interest directly or indirectly in this property or the company mentioned in this report and do not expect to receive any such interest.

James R. Glass, B.Sc.,



Vancouver, B.C.
April, 1971

APPENDIX "A"

References

REFERENCES

G. S. C. Memoir 296 — Vernon Map-Area British Columbia by A. G. Jones.

J. Vincent of D. W. Pringle & Associates Ltd., — Geological Report on the Spar Claim Group Vernon Mining Division February, 1971

APPENDIX "B"

Assay Results

CERTIFICATE OF ASSAY

TO .....Boroway Mines Ltd.,.....

.....Vernon, B.C.....

.....

Lab No. 25.

April 27, 1971.

I hereby certify THAT THE FOLLOWING ARE THE RESULTS OF ASSAYS MADE BY US UPON THE HEREIN DESCRIBED SAMPLES.

MARKED	U_3O_8 Chemical PERCENT	MARKED	PERCENT	MARKED	PERCENT	MARKED	PERCENT
28477 C	0.030						
28479 C	0.015						
28480 C	0.15						
28482 C	0.026						
28483 C	0.007						
28486 C	0.045						
Loose Rock	0.021						

NOTE:
Rejects Retained One Month
Pulps Retained Three Months
Unless Otherwise Arranged.

Frank J. Norvat

Registered Assayer; Province of British Columbia

1500 PEMBERTON AVENUE, NORTH VANCOUVER, B.C.
Phone 988-5315

CERTIFICATE OF ASSAY

TO Boraway Mines Ltd.
433 - 355 Burrard St.
Vancouver, B.C.

Report No: A21-139
Samples Rec'd: April 26, 1971
Results Completed: April 29, 1971

I hereby certify that the following are the results of assays made by us upon the herein described Ore samples.

MARKED	U_3O_8 Percent	MARKED	Percent	MARKED	Percent
Ore					
28476	.104				
28478	.024				
28481	.038				
28484	.017				
28485	.020				
28487	.057				
Rock Sample	.009				

NOTE:
Rejects retained two weeks
Pulps retained three months
unless otherwise arranged.

Registered Assayer, Province of British Columbia

1500 PEMBERTON AVENUE, NORTH VANCOUVER, B.C.
Phone 988-5315

RECEIVED
MAY 1 1971

CERTIFICATE OF ASSAY

TO Boraway Mines Ltd.
433 = 355 Burrard St.
Vancouver, B.C.

Report No: A21-139
Samples Rec'd: April 26, 1971
Results Completed: April 29, 1971

I hereby certify that the following are the results of assays made by us upon the herein described Ore samples.

MARKED	U_3O_8 Percent	MARKED	Percent	MARKED	Percent
Ore					
28476	.104				
28478	.024				
28481	.038				
28484	.017				
28485	.020				
28487	.057				
Rock Sample	.009				

NOTE:
Rejects retained two weeks
Pulps retained three months
unless otherwise arranged.

Registered Assayer, Province of British Columbia

DESCRIPTION OF SAMPLES

SAMPLE	No. 1	Denison ore sample taken as a check against Boraway samples.
	No. 2	Grab samples taken by
	No. 3	
	No. 4	R. Bechtel; prospector who vended the property. These samples are reputed to be from three "hot spots" on the property.
	No. 1364	Grab sample which was submitted to Mr. L. Trenholme, P. Eng., by R. Bechtel.
	Unmarked Sample	Grab sample taken by L. Williams; prospector who vended the property.
	2166C 2167C 2168C 2169C 2170C 2171C	Chip and grab samples taken by Mr. L. Trenholme, P. Eng., from main blast area. Mr. Trenholme is employed by Brameda Resources of Vancouver

• CONTRACT LABORATORIES

TECHNICAL SERVICE LABORATORIES
DIVISION OF BURGENER TECHNICAL ENTERPRISES LIMITED
555 KING ST. W., TORONTO 2B, ONT., CANADA
TELEPHONE: 362-4248 – AREA 416
TELEX: 0229302
CABLE ADDRESS – TECSERV TORONTO

CERTIFICATE OF ANALYSIS

(S) FROM Geophysical Engineering & Surveys Limited,
Toronto Dominion Centre,
Suite 4900,
P.O. Box 49,
Toronto, Ontario.

REPORT NO.
T-20734
Ref. No. 3

Attn: Mr. G. Johnstone
cc: Dr. D. Fraser

(S) OF ROCK

Sample No.	Uranium Oxide (U_3O_8)%	Thorium Oxide (ThO_2)%	Niobium (Nb)%
1 Davison	0.16	0.03	nil
2 large, lot	0.27	1.07	nil
3 large, moderate	0.03	0.42	nil
4 chunks	0.05	0.40	nil

...s and Rejects discarded after two months

Nov. 12/70 SIGNED

CTA

• CHEMICAL RESEARCH AND ANALYSIS
• INSTRUMENT SALES AND SERVICE

TECHNICAL SERVICE LABORATORIES

DIVISION OF RUBELNER TECHNICAL ENTERPRISES LIMITED

355 KING ST. W., TORONTO 2D, ONT., CANADA

TELEPHONE: 362-4248 – AREA 416
TELEX: 0229302
CABLE ADDRESS – TECSERV TORONTO

Representing . . .
... RESEARCH
... CORPORATION
... RESEARCH LIMITED

CERTIFICATE OF ANALYSIS

Semiquantitative Spectrographic

...PLE(S) FROM Geophysical Engineering & Surveys Limited,

REPORT NO. T-20734

Ref. No. 3

...PLE(S) OF

Attn: Mr. G. Johnstone
cc: Dr. D. Fraser

	Sample 1	Sample 2	Sample		Sample 1	Sample 2	Sample
...y	–	–		Phosphorus	–	2%	
	–	–		Platinum	–	–	
	.02%	.03%		Rhenium	X	X	
...m (Rh_2O)	–	–		Rhodium	–	–	
	.01%	–		Rubidium	X	X	
	–	–		Ruthenium	–	–	
...a	–	–		Silver	.1 oz/t	–	
...(Cr_2O_3)	–	(2%)		Strontium	–	–	
	X	X		Tantalum (Ta_2O_5)	–	–	
...m	<.03%	–		Tellurium	–	–	
	–	–		Thallium	–	–	
...m (Th_3O_4)	–	–		Thorium (ThO_2)	.03%	1.07%	
	.03%	.003%		Tin	–	–	
	–	<.003%		Titanium	.1%	.05%	
...sten	–	–		Tungsten	–	–	
	.01 oz/t	–		Uranium (U_3O_8)	.16%	.27%	
	–	–		Vanadium	–		
	–	–		Yttrium (Y_2O_3)	.005%	(LM)%	
	–	–		Zinc	–	–	
...m (La_2O_3)	–	(.1-.3%)		Zirconium (ZrO_2)	.005%	.2-.3%	
	.05%	.02%		ROCK FORMING METALS			
...(Al_2O_3)	–	–		Aluminum (Al_2O_3)	5%	15%	
...ese	.03%	.005%		Calcium (CaO)	.2%	.5%	
	–	–		Iron (Fe)	1.0%	1%	
...um	.2%	–		Magnesium (MgO)	.05%	.6%	
...m (SiO_2)	–	(1.5%)		Silica (SiO_2)	M	M	
	.005%	–		Sodium (Na_2O)	–	1%	
...m	–	–		Potassium (K_2O)	.5%	1%	

...es are approximate:

...DE

...% — 10 — 100% approx.
...Medium High — 5 — 50% approx.
...Medium — 1 — 10% approx.

LM — Low Medium — .5 — 5% approx.
L — Low — .1 — 1% approx.
TL — Trace Low — .05 — .5% approx.
T — Trace — .01 — .1% approx.

FT — Faint Trace — approx. less than .01%.
PT — Possible Trace — Presence not certain.
— — Not Detected — Elements looked for but not found.
X — Not looked for

... Pulps and Rejects discarded after two months

Nov. 12/70

SIGNED

CTA

• CHEMICAL RESEARCH AND ANALYSIS
• INSTRUMENT SALES AND SERVICE

TECHNICAL SERVICE LABORATORIES
DIVISION OF PURDENEX TECHNICAL ENTERPRISES LIMITED
333 KING ST. W., TORONTO 2B, ONT., CANADA
TELEPHONE: 362-4248 – AREA 416
TELEX: 0229302
CABLE ADDRESS – TECSERV TORONTO

CERTIFICATE OF ANALYSIS

Somiquantitative Spectrographic

PLE(S) FROM Geophysical Engineering & Surveys Limited,

REPORT NO. T-20734
Ref. No. 3

PLE(S) OF ROCK

Attn: Mr. G. Johnstone
cc: Dr. D. Fraser

	Sample 3	Sample 4	Sample		Sample 3	Sample 4	Sample
	--	--		Phosphorus	1%	1%	
	--	--		Platinum	--	--	
	.03%	.03%		Rhenium	X	X	
(Rh2O)	--	--		Rhodium	--	--	
	--	--		Rubidium	X	X	
	--	--		Ruthenium	--	--	
	--	--		Silver	--	--	
(SrO)	1%	1%		Strontium	.02%	.01%	
	X	X		Tantalum (Ta_2O_5)	--	--	
	--	--		Tellurium	--	--	
	--	--		Thallium	--	--	
m (Ca_2O_3)	--	--		Thorium (ThO_2)	.12%	.10%	
	.002%	.002%		Tin	--	--	
	.003%	<.002%		Titanium	.1%	.1%	
n	--	--		Tungsten	--	--	
	--	--		Uranium (U_3O_8)	.03%	.05%	
	--	--		Vanadium	--		
	--	--		Yttrium (Y_2O_3)	<.1%	(<.5%)	
	--	--		Zinc	--	--	
s (Ce_2O_3)	.5%	(.5%)		Zirconium (ZrO_2)	.1%	.5%	
	.01%	.01%		ROCK FORMING METALS			
$_2O_3$	--	--		Aluminum (Al_2O_3)	30%	20%	
	.03%	.03%		Calcium (CaO)	.5%	.5%	
	--	--		Iron (Fe)	1%	1%	
	--	--		Magnesium (MgO)	1%	1%	
a (SiO_2)	.5%	(.5%)		Silica (SiO_2)	M	M	
	--	--		Sodium (Na_2O)	1%	1%	
	--	--		Potassium (K_2O)	2%	1-2%	

es are approximate:

D =

— 10 — 100% approx.	LM — Low Medium	— .5 — 5% approx.	FT — Faint Trace	— approx. less than .01%.
— 3 — 30% approx.	L — Low	— .1 — 1% approx.	PT — Possible Trace	— Presence not certain.
— 1 — 10% approx.	TL — Trace Low	— .05 — .5% approx.	— Not Detected	— Elements looked for but not found.
	T — Trace	— .01 — .1% approx.	X — Not looked for	

Pulps and Rejects discarded after two months
Nov. 12/70

SIGNED

CTA

X-RAY ASSAY LABORATORIES

LIMITED

45 LESMILL ROAD DON MILLS ONTARIO 445-5765

Certificate of Analysis

NO. 5728

M.B

TO. Geophysical Engineering & Surveys,
Toronto-Dominion Centre,
P.O. Box- 49, Suite 4900,
TORONTO 111, Ontario.

NOV 25 1970

RECEIVED November 16, 1970 (Leishman). INVOICE NO. 6627

SAMPLE(S) OF pulp SUBMITTED TO US SHOW RESULTS AS FOLLOWS:

Sample No.	% Total Rare Earths*
#2	5.82

* - This figure does not include Yttrium or Thorium

X-RAY ASSAY LABORATORIES LIMITED

CERTIFIED BY E.J. Burke

1380 PEMBERTON AVENUE, NORTH VANCOUVER, B.C.
Phone 985-9313

CERTIFICATE OF ASSAY

TO Seymour Laboratory Ltd.
147 Riverside Dr.
North Vancouver, B.C. Att: Mr. J. Chatten

Report No: A20-819
Samples Received: November 17, 1970
Results Completed: November 23, 1970
Project File 1364
c.c. Brameda Resources Ltd.

I hereby certify that the following are the results of assays made by us upon the herein described pulp samples

MARKED	U_3O_8 Percent	MARKED	Percent	MARKED	Percent
Pulps					
1364	.226				

NOTE:
Rejects retained two weeks
Pulps retained three months
unless otherwise arranged.

Peter Keeper
Registered Assayer, Province of British Columbia

RONDAL CLEGG & COMPANY LTD.
1360 PEMBERTON AVENUE, NORTH VANCOUVER, B.C.
Phone 988-5315

CERTIFICATE OF ASSAY

TO Klonas Mining Ltd.,
1604 - 1177 W. Hastings St.,
Vancouver 1, B.C. Att: Mr. G.H. Laycraft

Report No.: A20 - 795
Samples Rec'd: November 6, 1970
Results Completed: November 9, 1970

I hereby certify that the following are the results of assays made by us upon the herein described Ore samples.

MARKED	U_3O_8 Percent	MARKED	Percent	MARKED	Percent
------	.236				

NOV 12 1970

NOTE:
Rejects retained two weeks
Pulps retained three months
unless otherwise arranged.

Peter Kempe
Registered Assayer, Province of British Columbia

TO

147 Riverside Dr.

North Vancou B.C.

Samples Rec'd: November 30, 1970
Results Completed: December 10, 1970

Fil 67 Our Inv. 2308

I hereby certify that the following are the results of assays made by us upon the herein described rejects samples

MARKED	U_3O_8 Percent	MARKED	Percent	MARKED	Percent
Rejects					
2166 C	.070				
2167 C	.012				
2168 C	.020				
2169 C	.017				
2170 C	.005				
2171 C	.001				
2172 C	.001				

SEYMOUR LABORATORY
147 Riverside Dr.
N. VANCOUVER, B.C.
DEC 15 1970

NOTE:
Rejects retained two weeks
Pulps retained three months
unless otherwise arranged.

Peter Kempe
Registered Assayer, Province of British Columbia

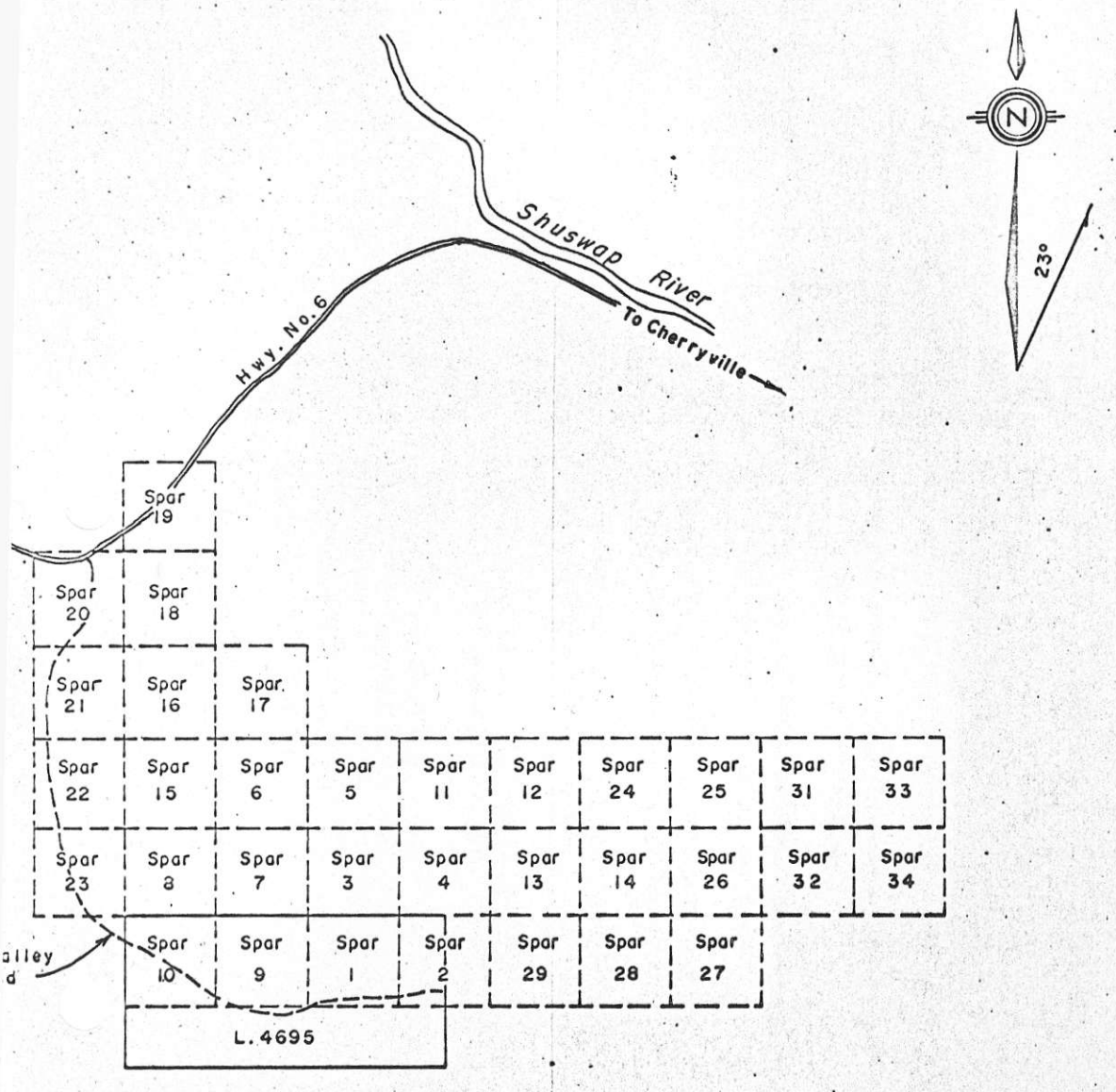
Other REO															
	Cerium	>0.2	0.70	0	0.03	0.05	0.03	0.2	0.08	.03	0.04	0.02	T	0.02	T
	Dysprosium	>0.1		ND		N		T		N		N		ND	
	Erbium	>0.1		0.005		0.02		0.03		N		N		ND	
	Europium	0.02		N		N		T		N		N		ND	
	Gadolinium	0.1		0.003		0.01		0.01		0.003		0.001		0.001	
	Holmium	D		N		N		ND		N		N		ND	
	Lanthanum	>0.1	2 0	-0.1	0.02	-0.1	0.02	-0.01	0.10	-0.1	0.04	N	T	ND	T
	Lutetium	0.007		0.001		0.003		0.003		0.001		-0.001		ND	
	Neodymium	D	3.0	ND	0.10	N	0.10	ND	0.30	N	0.02	N	0.03	ND	T
Niobium			0.01		N		N		N		N		N		N
	Praesidimium	D		N		N		D		N		N		ND	
	Samarium	D		N		N		ND		N		N		ND	
	Terbium	0.603		N		N		0.007		N		N		0.1	
Thorium			0.60		0.03		0.07		0.20		0.08		T		T
	Thulium	< 0.1		N		N		ND		N		N		ND	
Uranium			ND		N		N		N		N		N		N
	Ytterbium	0.07	0.10	0.01	0.01	0.01	0.02	0.04	0.04	-0.001	T	-0.001	0.001	< 0.001	T
	Yttrium	>0.10	1.0	0.1	0.07	+0.1	0.09	+0.10	0.20	0.04	0.02	0.02	0.03	0.001	T
Tantalum			0.10		N		N		N		N		N		N
U_3O_8 (Bondar Clegg)			0.07		0.012		0.020		0.017		0.005		0.001		0.001
U_3O_8 (Levelton)		+0.1		N		N		-0.1		N		N		N	

Series 'B' by Levelton Associates

'C' (by Cantest for REO
(by Bondar Clegg for U_3O_8

APPENDIX "C"

Claim Map



BORAWAY MINES LTD.
SPAR MINERAL CLAIMS
PROPERTY MAP
Scale 1" = 1/2 mi Apr. 1971 Fig. 2
JAMES R. GLASS, CONSULTING GEOLOGIST