

5932

LEAP

EXEL EXPLORATIONS LTD.

DIAMOND DRILLING REPORT.

LEAP CLAIM GROUP.

92H/16E

Alrae Engineering Ltd.

July 23, 1976.

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT

NO. 5932

TO PROTECT OUR CLIENTS, THE PUBLIC AND OURSELVES, ALL REPORTS ARE SUBMITTED AS THE CONFIDENTIAL PROPERTY OF CLIENTS AND AUTHORIZATION FOR PUBLICATION OF STATEMENTS, CONCLUSIONS AND EXTRACTS FROM OUR REPORTS MUST RECEIVE OUR WRITTEN APPROVAL.

ALRAE ENGINEERING LTD.
VANCOUVER, B.C.
ENGINEERS & GEOLOGISTS

TABLE OF CONTENTS

	<u>PAGE</u>
INTRODUCTION	1.
LOCATION AND ACCESS	1.
PREVIOUS WORK	1.
GEOLOGY	2.
DIAMOND DRILLING	2.
SUMMARY OF ASSAYS	4.

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INTRODUCTION

During the period from late September through November, 1975, the writer made three trips to the Leap claim group to supervise a diamond drill test of a siderite zone. The program was in progress when I first arrived and the majority of the drilling was done without my presence on the site, however most of the core was brought to Vancouver where it was examined.

LOCATION AND ACCESS

The Leap claim group is situated at an elevation of 5,000 feet on the southwest slope of Kathleen Mountain at about $49^{\circ} 45'$ north latitude and $120^{\circ} 07'$ east longitude in the ~~Vernon~~ *Similkameen* Mining Division of British Columbia.

The property is approximately 30 miles northeast of Princeton and can be reached by driving the Princeton - Summerland road which parallels the Kettle Valley Railroad to a point about 2 miles east of Osprey Lake where a dirt road turns off to the north. The dirt road is followed for 4 miles to the drill sites. The dirt road is steep and rough and requires a 4 wheel drive vehicle.

PREVIOUS WORK

There is an old adit approximately 200' in length about 500' southeast of the drilled siderite zone. The tunnel was not examined in detail, but a cursory examination showed it to strike $N 20^{\circ} E$ and followed a small, quartz-filled shear. No evidence of mineralization was seen by the writer. The siderite zone has been slashed and exposed for about 18' vertically on the west bank of the gully and has had some minor trenching done along strike

in several locations in a westerly direction.

GEOLOGY

The workings and the diamond drilling have been confined to what is referred to by the G.S.C. as the Otter granite. The fracturing, alteration and mineralization all occur entirely within the Otter granite. The Otter granite is a greenish rock, with fair amounts of chlorite. There is abundant quartz and both orthoclase and plagioclase feldspars are present.

The siderite vein upon which there has been trenching and where the diamond drilling was done, shows as a fractured zone which is darker in colour than the balance of the granite. The fracture surfaces weather to a bluish black and as they are numerous impart an overall darker colour to the siderite vein. The siderite vein contains a fair amount of quartz as well as minor amounts of pyrite and chalcopyrite. It is reported that manganese is also present, probably as a carbonate.

Diamond drilling of the siderite vein has shown it to be irregular in shape and probably small in size and to carry minor values in gold and silver.

DIAMOND DRILLING

During the autumn of 1975 six diamond drill holes totalling 580 feet were drilled to test the siderite vein for gold, silver and copper values. Mineralization was erratic and values generally low with the exception of one 15 foot section in drill hole #2 which averaged Au 0.30oz/ton and Ag 3.43 oz/ton. These values could not be extended and appear to be very local in nature. The position of the diamond drill holes was as follows.

Drill Hole #1 collared 60' south of the siderite zone, strike N 20° E, dip -30°, drilled to a depth of 157'. The entire hole was in granite.

Drill Hole #2 collared in the centre of the siderite zone and drilled vertically to a depth of 85'. All core was granite.

Drill Hole #3 drilled in the same vertical plane as holes 1 & 2, collared 65' north of the siderite zone, strike S 20° W, dip -45°. Depth of hole 174' and in granite throughout.

Drill Hole #4 drilled from the same set-up as no. 3, but at a steeper dip, that being -60°. This hole also returned granite core throughout.

Drill Hole #5 collared 200' west of numbers 1 - 4 with a strike of N 20° E and a dip of -60°, depth 62' and in granite throughout.

Copies of the assays are appended.

SUMMARY AND CONCLUSIONS

The Leap claim group covers two showings, one a quartz vein with about 200' of tunnel, the other a siderite vein which has had some stripping and trenching. The drill program performed in September - November 1975 was to test the siderite vein for values in gold, silver and copper. Some gold and silver values were encountered, but are small and erratic and show little hope of important extensions. On the basis of work done to date no further work appears justified.

Respectfully submitted,



Geologist.

Diamond Drill Hole # 1.

	Interval	Au Oz/ton	Ag Oz/ton	Cu %
D.D. Core	60' - 62'	0.005	0.02	0.008
"	62' - 65'	TR	0.03	0.007
"	65' - 67'	0.16	0.76	0.11
"	67' - 70'	0.01	0.06	0.015
"	77' - 79'	0.005	0.03	0.005
"	79' - 82'	0.005	0.04	0.003
Sludge	45' - 55'	TR	0.04	0.014
"	55' - 59'	0.005	0.04	0.012
"	59' - 65'	0.005	0.06	0.026
"	65' - 68'	0.030	0.15	0.045
"	68' - 70'	0.005	0.06	0.023

Diamond Drill Hole # 2.

D.D. Core	5' - 9'	TR	0.09	0.096
"	9' - 11'	0.005	0.11	0.025
"	11' - 14'	0.055	0.29	0.18
"	14' - 19'	0.13	0.64	0.41
"	19' - 22'	0.055	0.44	0.16
"	22' - 25'	0.015	0.17	0.07
"	25' - 30'	0.26	3.09	0.13
"	30' - 35'	0.43	5.67	0.23
"	35' - 40'	0.21	1.52	0.087
"	40' - 43.3'	0.02	0.20	0.025
"	78' - 85'	TR	0.02	0.006

Diamond Drill Hole # 3.

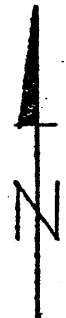
D.D. Core	0 - 20'	TR	0.02	
"	20' - 26'	TR	TR	
"	26' - 30'	TR	0.01	
"	30' - 40'	TR	0.04	
"	40' - 50'	TR	0.02	
"	50' - 57'	TR	TR	
"	86' - 87'	0.14	0.70	

Diamond Drill Hole # 4. NOT SAMPLED.

Diamond Drill Hole # 5.

D.D. Core	0 - 12'	TR	TR	
"	12' - 20'	TR	0.02	
"	20' - 25'	TR	0.03	
"	25' - 30'	0.01	0.15	

EXEL EXPLORATION LTD.
LOCATION OF DIAMOND DRILLED SHOWING
LEAP CLAIM GROUP, KATHLEEN MTN.
PRINCETON AREA, B.C.

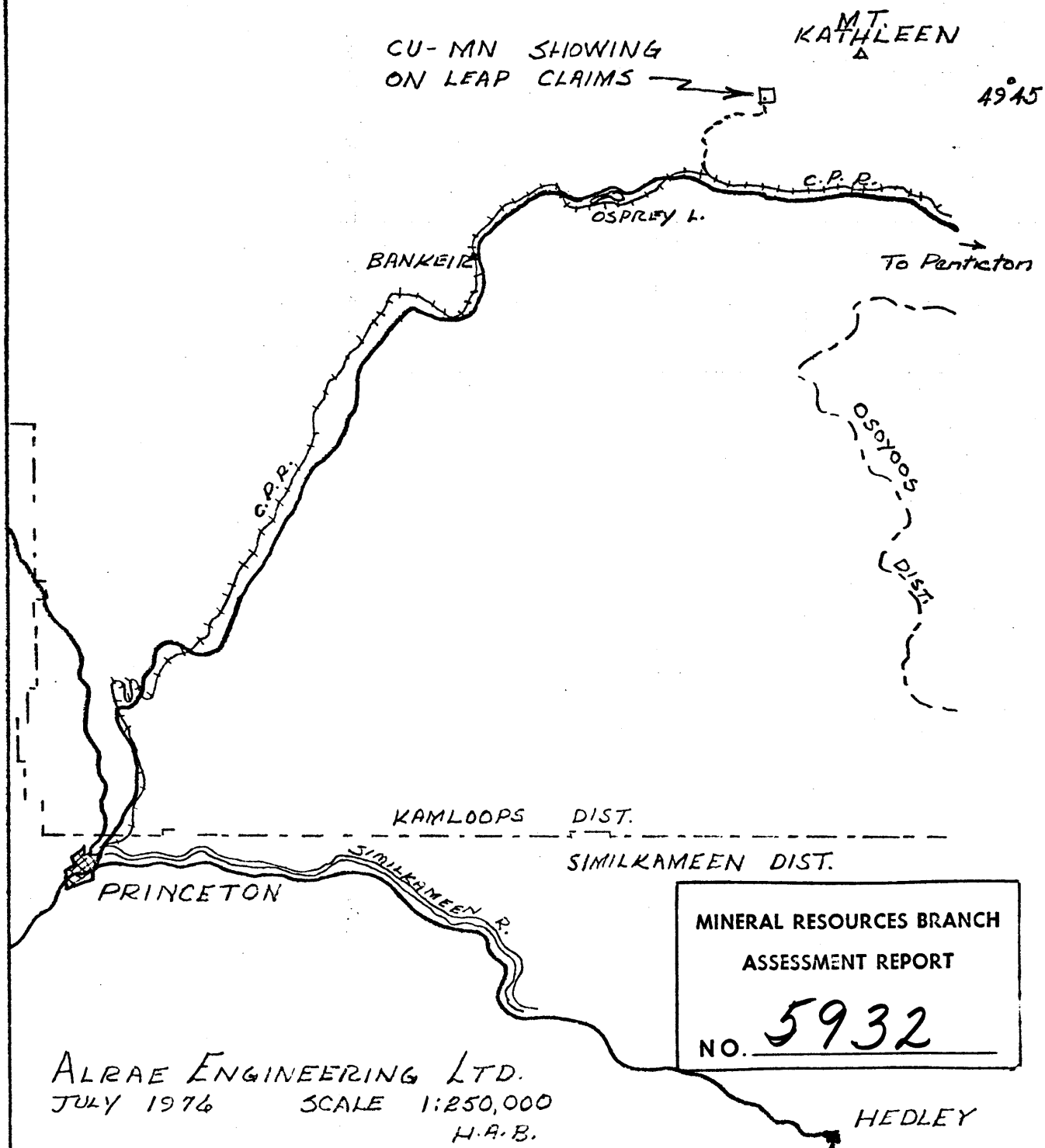


120°

CU-MN SHOWING
ON LEAP CLAIMS →

MT. KATHLEEN
▲

49°45'

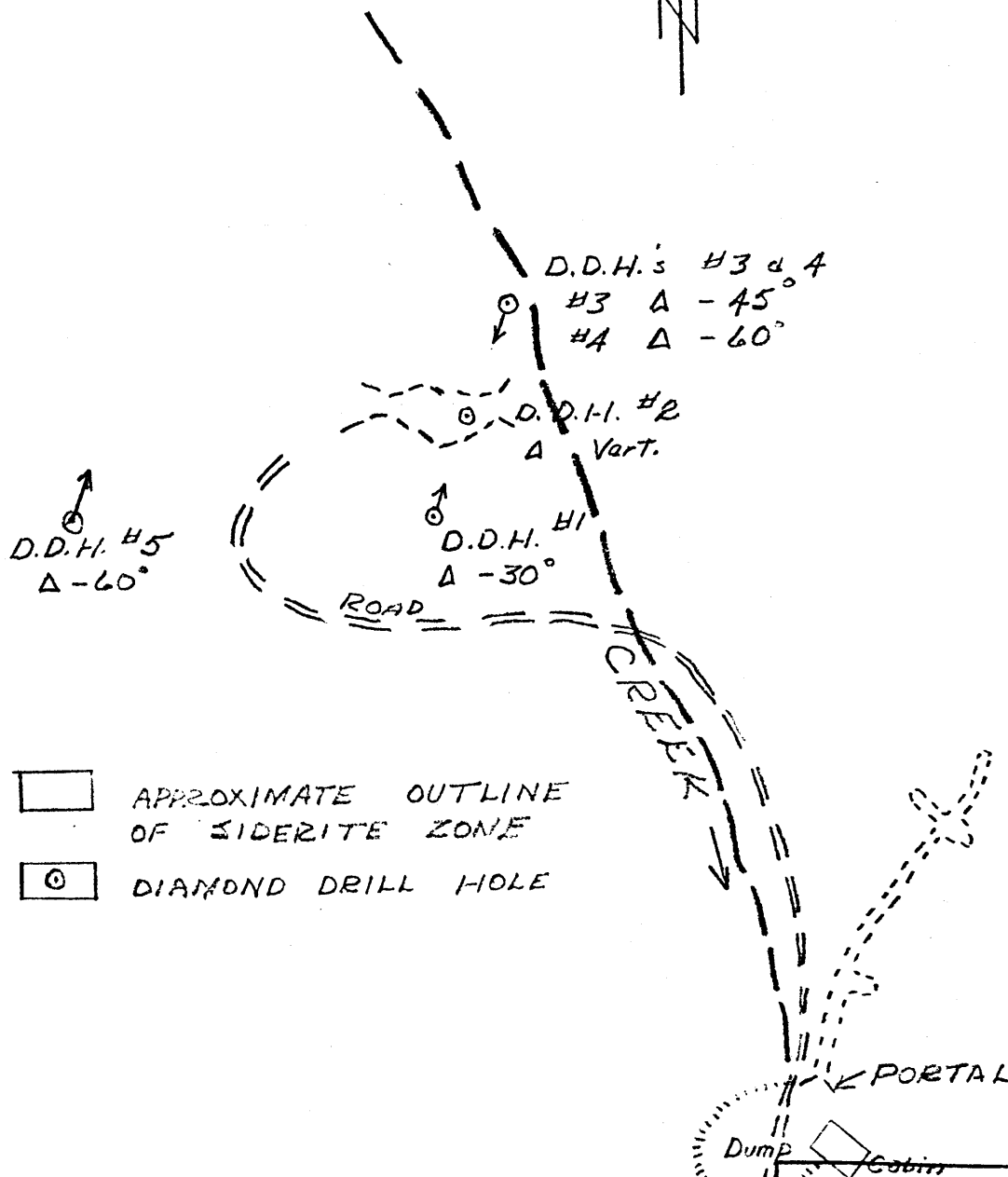


MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
NO. 5932

ALRAE ENGINEERING LTD.
JULY 1976 SCALE 1:250,000
H.A.B.

This is Leap Claim / Record 36669

LEAP 1 claim



- APPROXIMATE OUTLINE OF SIDERITE ZONE
- ⊙ DIAMOND DRILL HOLE

EXEL EXPLORATION LTD.
 PLAN OF D.D.H. LOCATIONS
 LEAP CLAIM GROUP
 PRINCETON AREA, B.C.

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
NO. <u>5932</u>

ALRAE ENGINEERING LTD
 JULY 1976 SCALE 1"=100'

September 21, 1976

Exel Explorations Ltd.,
#5 - 6112 Willow Street,
Vancouver, B.C.

Dear Sirs:

In response to your inquiry as to my qualifications re logging diamond drill core from the Leap claim group, I submit the following personal history;

Graduated from the Provincial Institute of Mining in Haileybury, Ontario, 1951.

Graduated from Queen's University in Kingston, Ontario with a B.A. in geology, 1958.

Employed by various mining companies as a geologist from 1951 - 1962, including British Newfoundland Corp., Labrador Mining and Exploration Co. Ltd., Nipissing Mines Ltd., McIntyre Porcupine Mines Ltd., Conwest Exploration Co. Ltd. and Cassiar Asbestos Corp Ltd.

In 1962 co-founded Alrae Engineering Ltd., a consulting geological firm and since that time have spent a large portion of my time evaluating mineral prospects in Canada, U.S.A. Mexico, Wales, Australia and Brazil.

Trusting this is the information you require, I remain,

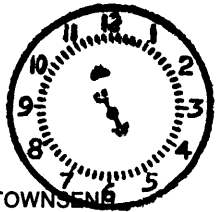
Yours very truly,



H.A. Briden.

REFERRED TO	DATE	INITIAL
C.G.C.	✓	
D.C.G.C.		
G.C.		

NOV 25 '76 AM



EXEL EXPLORATIONS LTD. (N.P.L.)
 401-525 10TH ST., NEW WESTMINSTER, B.C. (604) 525-2424
 FILE NO. 5 - 6112 WILLOW STREET
 VANCOUVER, B. C. PH. 253-7904
 FILING CLERK

PRESIDENT H. TOWNSEND
 VICE PRESIDENT DEPT. OF MINES
 AND PETROLEUM RESOURCES

Nov 24th 1976

Miner & Petroleum Resources
 Attention Mr E. J. Bowler

11578

Dear Sir - With reference to section 56 re mineral act, re Leap Claims Diamond Drilling report # 5932.

The showing that was drilled is located as follows "It is two hundred ft south, 75° East from the final post of Leap # 1 & 2 Claims thus the drilling was done on leap # 1 record # 36669.

The drilling was done by contract by two drilling companies Walk On Diamond Drilling did 242 ft at a cost of Thirty Five Hundred Dollars, copy of cheque paid to them enclosed. G & S Diamond Drilling did a total of 332 ft for a price of \$4700.00, this company operates in Princeton under the direction of Mr Jean Petersen Princeton B.C. Mr Petersen is away in the Yukon and I have been unable to contact him re statement for work done. I filed 600 ft as being done and I find that the exact footage is 580 ft total so I am in error 20 ft. As soon as Mr Petersen gets home for Christmas I will obtain a copy of the contract he did for Exel and mail it to you promptly.

337	3500
242	4700
579	8200

Yours truly
 J. K. Henton



The First Canadian Bank

Bank of Montreal

67th & Granville
8324 Granville Street
Vancouver 14, B.C.

Current Account

1973 No 199

Pay to the order of

Earl Ansfield

\$ 3500.00

Thirty Five Hundred

100 Dollars

EXEL EXPLORATIONS LTD. N.P.

*Walter Condor
Dullin*

750'

W. J. Dullin

*Walter Condor
Dullin*

⑆00000000000⑆

⑆100100638⑆

⑆0000350000⑆

Sept 9
SEP 19 1975
67th Ave. & Granville
8324 Granville Street
Vancouver 14, B.C.

