

GEOCHEMICAL REPORT

on

THE PA GROUP

at

82M/12W

BIRCH ISLAND, B.C.

Kamloops M.D.

N.T.S. 82M/12 W

Lat. 51°35' N,

Long. 119°53' W

July 22 - July 25, 1972

for

CONSOLIDATED REXSPAR MINERALS & CHEMICALS LTD.

K.G.Sanders, P.Eng. and

P.Pisani

November 30, 1972

4032

4032

GEOCHEMICAL REPORT
ON

THE PA GROUP

(REX 17, REX 18, REX 30, LIL 5, LIL 7,
PA 1, PA 13-18, PA 39-46, PA 50 Fr.,
PA 51, PA 53, RADIO 30, CS 1-4, CS 7-14,
ELLA 1 Fr., ELLA 2 Fr.)

AT

BIRCH ISLAND, B.C.

KAMLOOPS M.D. N.T.S. 82 M / 12 W

LAT. 51⁰ 35' N, LONG. 119⁰ 53' W

JULY 22 - JULY 25, 1972

FOR

CONSOLIDATED REXSPAR MINERALS & CHEMICALS LTD.

By

K. G. Sanders, P.Eng.

and P. Pisani

Department of	November 30, 1972
Mines and Petroleum Resources	
ASSESSMENT REPORT	
No. 4032	Map



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INTRODUCTION

A geochemical program has been carried out over the north-east portion of the Rexspar property at Birch Island, B.C. in order to evaluate the potential for fluorite of the area. The soil sampling was completed in the July 22 - July 25, 1972, period, and was managed by Denison Mines Limited, one of the principals of Consolidated Rexspar Minerals and Chemicals Limited.

LOCATION AND GEOGRAPHY

The property is located south of Birch Island, a small village on the North Thompson river, about 85 miles north of Kamloops. The area is served by highway #5 and by the main line of the C.N.R.

The area covered by the survey occupies the north-east corner of the property, around elevation 3,000', and it is accessible from Birch Island by a 4 wheel drive road; it is gently sloping to the NNE and well wooded with birch, cedar and fir.

CLAIMS DATA

The survey has been carried out over the following mineral claims and crown grants:

<u>CLAIM</u>	<u>RECORD NO.</u>	<u>CLAIM</u>	<u>RECORD NO.</u>
PA 1	65168	Radio 30	69835
PA 13-18	65180-85 incl.	CS 1-4,7-14	80812-23 incl.
PA 39-46	65206-13 incl.	Ella 2 Fr.	80314
PA 50 Fr.	69837	Rex 17,18	L5398,99
PA 51	69838	Rex 30	L5408
PA 53	69840	Lil 5,7	L5489,88

For assessment purpose, the above 37 claims, plus the adjoining ELLA 1 Fr (record No. 80313) have been grouped together.

GEOLOGY

The Rexspar property is underlain by an assemblage of metamorphosed sedimentary and volcanic rocks of Permian or earlier age, intruded by a body of granodioritic composition and Mesozoic age. The area covered by the survey is underlain by trachyte, which is the host rock for fluorite and uranium mineralization in the central zone. Exposures are very scarce; by projecting information from the west, it is assumed that the strike is E-W, with a gentle dip to the north.

PREVIOUS WORK

In the course of the 1969 field program, lines running E-W and spaced apart at 300' or 600' intervals had been cut. Along these lines I.P. and scintillometer surveys were completed, followed by radon survey over selected sections. Several anomalies were outlined, characterized by a well defined and sharp I.P. response and fair radiometric values (up to 3 times background). Seven holes were drilled to test the three best anomalies. Pyrite-mica bands (the uranium bearing rock type) were intersected; the bands, although of marginal grade, indicated a favourable environment for mineralization.

GEOCHEMISTRY

- 1) Geochemical Environment - Moderate thickness of the overburden (5'- 20'), gentle topography and good drainage make this area well suited for geochemistry.

- 2) Sampling - 186 samples were taken at 200' intervals along the cut lines and analyzed for F and Mo. The samples were collected with a shovel, at a depth of 3" to 10"; the " B " horizon was reached without difficulty in every site. To intergrate this program, 184 additional samples to the west, which had been already collected and analyzed for Mo in 1969, were analyzed for F as well.
- 3) Analyses - The analyses were conducted by Bondar-Clegg & Co. Ltd. F was determined in their Ottawa laboratory, Mo in the Vancouver laboratory. The samples were dried in infra-red heated oven at 40° to 50° C and sifted to -80 mesh. Mo was extracted from the sample in hot aquaregia and determined by atomic absorption spectrophotometry. F was extracted by basic fusion and determined by specific ion method.
- 4) Presentation of Data - The results were plotted in 1"=300' maps (C-2 and E-2). The F values were contour at 700, 1400 and 2100 p.p.m. intervals; the Mo values at 4,8,12,20 and 40 p.p.m. intervals.
- 5) Interpretation - Preparation of a histogram of the values shows a background of 600 p.p.m. of F to the west, increasing to 800 p.p.m. moving to the east, and a threshold of about 1,400 p.p.m. of F in the soil. This compares with values in the 2,500 p.p.m. range around the fluorite zone, where however, the overburden is more shallow (0-10' compared with 5'-20').

A 3,000' x 500' - 1,000' anomaly, cut by a low in the middle, has been outlined, running east-west, i.e. parallel to the assumed strike of the underlying trachyte. No correlation appears to exist between the soil and I.P. anomalies. The correlation between the F and Mo values in the soil, although not as obvious as in the fluorite zone, persists over the area covered by the survey, the F: Mo ratio being in the 150: 1 to 100: 1 range. Hole DDH 69-11 falls around the centre of the anomaly and DDH 69-9, 69-13 and 69-14 just to the north of it; none of these holes intersected any significant fluorite enrichment.

CONCLUSION

A 3,000' x 500-1,000' anomaly in the soil (F 1,400 p.p.m.) has been outlined in the NE part of the property. The anomaly is significantly weaker than the one overlying the fluorite zone, although this can be at least partially due to the thicker overburden. The anomaly is not defined sharply enough to pinpoint drilling targets; it serves the purpose however of delimiting the size of the most favourable area to a rectangle bounded by lines 9 N and 21 N, between 60 E and 95 E. Four holes drilled in 1969 over the anomaly or just north of it, although intersecting pyrite-mica material, have failed to indicate any fluorite enrichment.

K. G. Sanders

K. G. Sanders, P.Eng.

P. Pisani

P. Pisani

COSTSSampling Costs

a) <u>Salaries;</u>		
P.Pisani, geologist - July 22 - July 25, 1972		
4 days @ \$ 30/day	\$	120.00
G.Sanders, helper - July 22 - July 25, 1972		
4 days @ \$ 12/day		48.00
b) <u>Room and board:</u>		
Room for two men - 4 days @ \$ 6/man/day		48.00
Board for two men - 4 days @ \$ 6/man/day		48.00
c) <u>Transportation:</u>		
4-wheel drive - 4 days @ \$ 20/day		80.00
TOTAL SAMPLING COSTS	\$	<u>344.00</u>

Analytical Costs

a) 370 fluorine analyses @ \$ 3/analysis	\$	1,110.00
b) 186 molybdenum analyses @ \$ 1/analysis		186.00
TOTAL ANALYTICAL COSTS	\$	<u>1,296.00</u>

Compilation costs

Report writing (K.G.Sanders and P.Pisani) ..	\$	200.00
Drafting, typing, binding, reproductions.....		200.00
TOTAL COMPILATION COSTS	\$	<u>400.00</u>

GRAND TOTAL \$ 2,040.00

K. G. Sanders
K.G. Sanders, P.Eng.

P. Pisani
P. Pisani

GEOLOGIST'S CERTIFICATE

I, Paolo Pisani, of the district of North Vancouver, B.C.
do hereby certify that:

1. I am a geologist and my permanent address is
303 - 900 Berkley Rd., North Vancouver, B.C.
2. I have received a degree in Geology at the
University of Milano, Italy, in 1963.
3. I have practiced my profession in Canada for
the past seven years.
4. I am an employee of Denison Mines Limited and
as such I have been personally involved in
the geochemical program for Consolidated
Rexspar Minerals and Chemicals Ltd.

P. Pisani

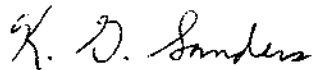
P. Pisani, Geologist

November 30, 1972
North Vancouver, B.C.

ENGINEER'S CERTIFICATE

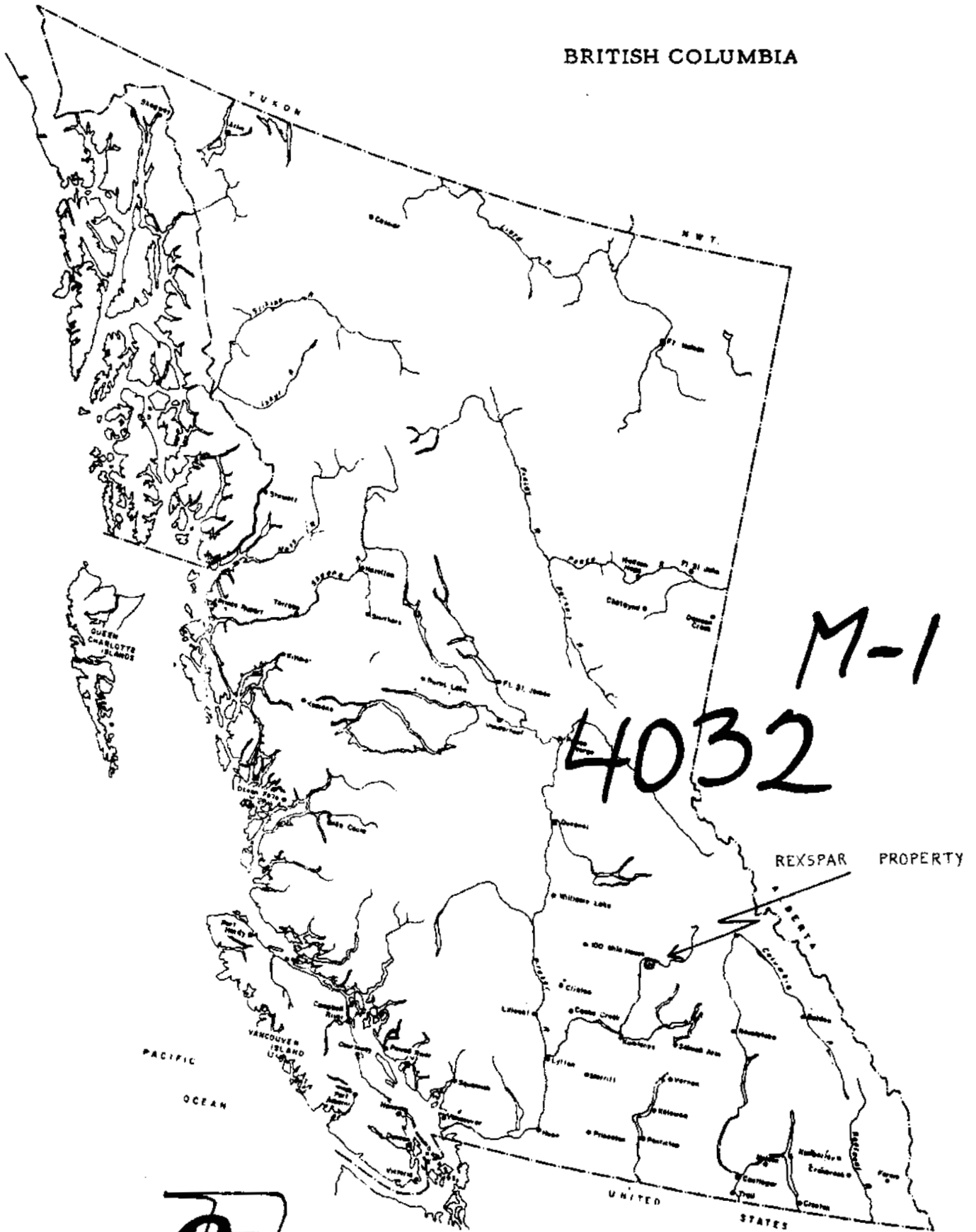
I, Kenneth G. Sanders, of 1940 Limerick Place, North Vancouver, B.C., hereby certify that:

1. I am a practicing Geological Engineer.
2. I am a graduate of the University of Toronto (B. A. Sc., 1949).
3. I have practiced my profession for the past 23 years.
4. I am a registered member of the Association of Professional Engineers of British Columbia.
5. I am an employee of Denison Mines Limited as a district Manager and as such I have personally supervised the geochemical program for Consolidated Rexspar Minerals and Chemicals Ltd.


K. G. Sanders, P.Eng.

November 30, 1972
North Vancouver, B.C.

BRITISH COLUMBIA



M-1

4032

REXSPAR PROPERTY



FIG. 1
LOCATION MAP

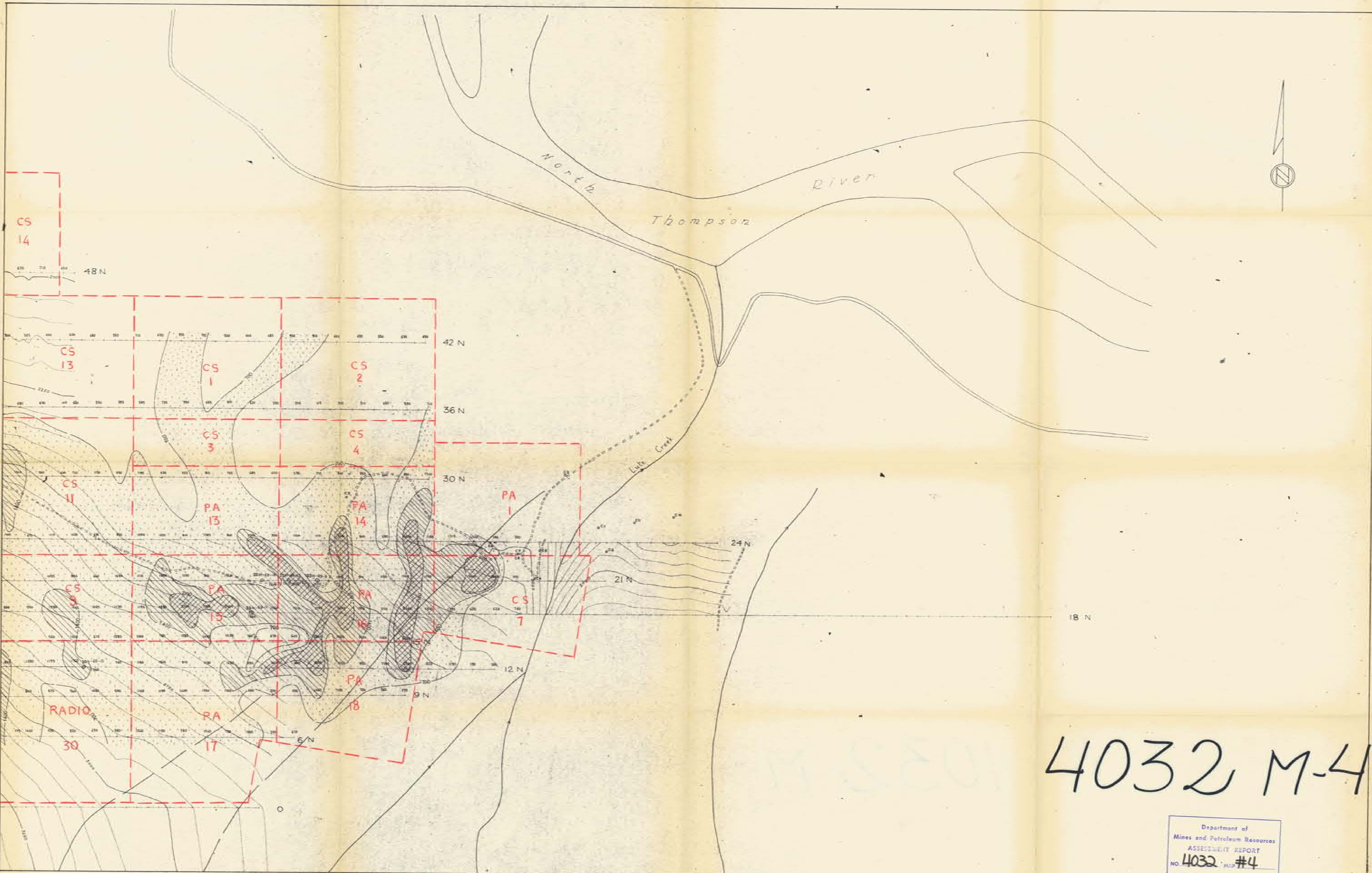
DENISON MINES LIMITED - VANCOUVER, B. C. .

1-2
2032

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 4032 MAP #1

S-M SEOH

Department of	
Mines and Permanent Resources	
ASSESSMENT REPORT	
NO. 4032	M.P. #2



4032 M-4

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 4032 M-4

To accompany "Geochemical Report" by K.G. Sanders, P.Eng. and P. Plouffe, dated November 30, 1972

K.G. Sanders *P. Plouffe*

- LEGEND**
- Road (2 wheel drive)
 - - - Road (4 wheel drive)
 - Stream with direction of flow
 - 10m 100' - Project Perc drill holes
 - 50' - Old drill holes
 - F in soil (ppm)
 - Contour interval: 100 ppm

DRAWN BY — C. GOODE		SCALE — 1" = 300'	PLATE — E-2	DATE — AUG 1969
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DENISON MINES LIMITED · REXSPAR PROJECT

SURFACE DRILL PLAN
FLUORINE IN SOIL



4032 M-5

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 4032 MAP #5

See accompanying "Geological Report" by K.G. Searles, P.Eng. and P. Rowland, Geol. November 20, 1972

K.G. Searles P. Rowland

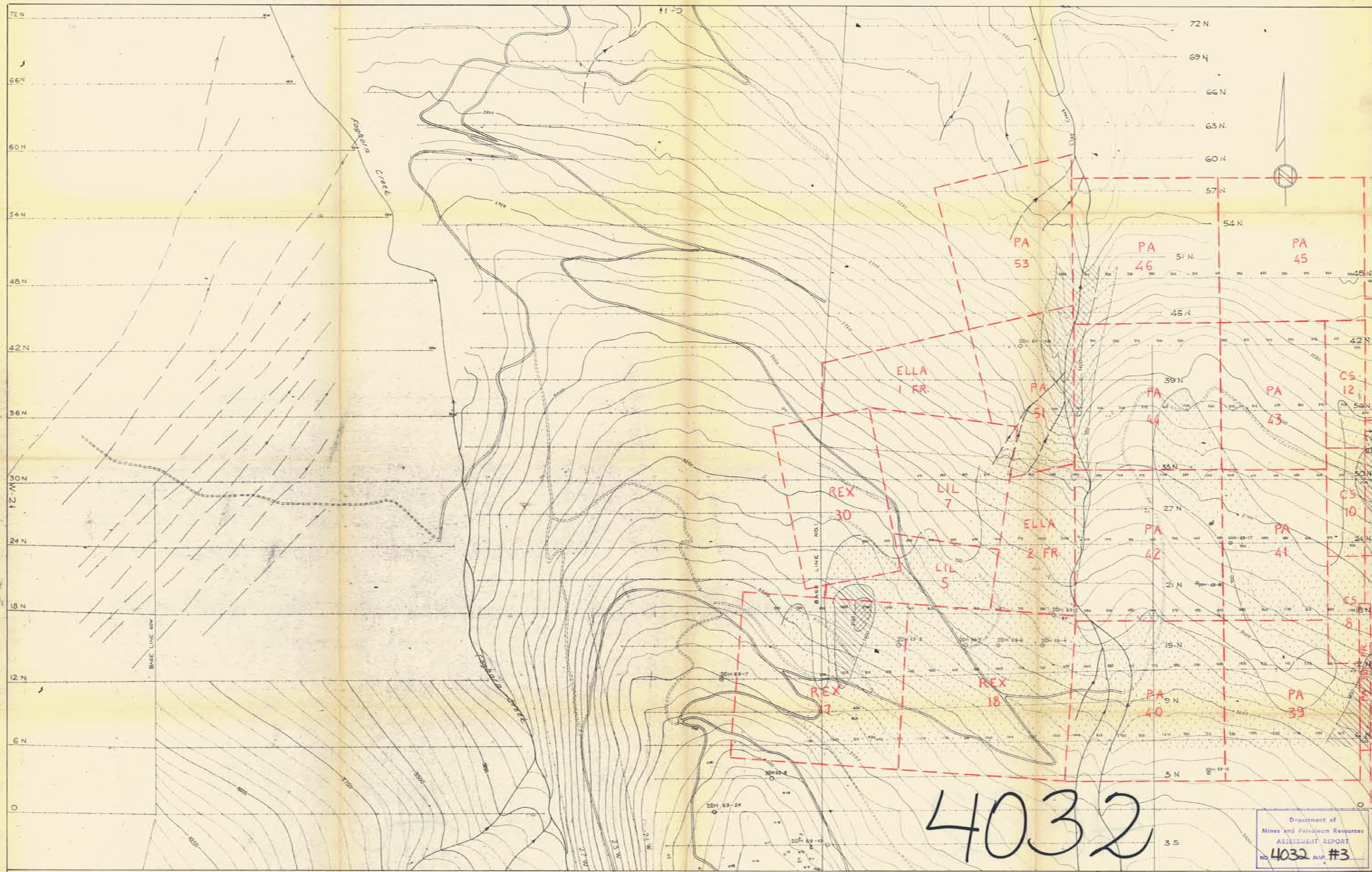
LEGEND

— Road (2 wheel drive)	Anomaly - definite 1-14
— Road (4 wheel drive)	Anomaly - probable 1-12
— Stream - with direction of flow	Anomaly - possible 1-18
— SAMPLE LOCATION AND METAL CONTENT (ppm)	

E-31

DENISON MINES LIMITED		REXSPAR PROJECT	
DISTRIBUTION OF MOLYBDENUM IN SOILS			
DRAWN BY — C. GOODE	SCALE — 1" = 300'	PLATE — E-2	DATE — AUG. 1959

Revised: Sept. 1972



4032
M-3

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
No. 4032 MAP #3

LEGEND
 ——— Road (2 wheel drive)
 - - - - Road (4 wheel drive)
 ~~~~~ Stream with direction of flow  
 ○ Project Rex drill holes  
 ∙ Old drill holes

F in soil (ppm)  
 Contour interval 700 ppm

To accompany "Geochemical Report" by K.G. Sander P.Eng. and P. Piloni. Dated November 30, 1973

*K.G. Sander* *P. Piloni*

DENISON MINES LIMITED REXSPAR PROJECT  
 SURFACE DRILL PLAN  
 FLUORINE IN SOIL  
 DRAWN BY: C. GOODE SCALE: 1" = 300' PLATE: C-2 DATE: AUG. 1969