

6108

GEOCHEMICAL REPORT

ON

ENID-JULIE GROUP

VANCOUVER MINING DIVISION

92K11W & 92K6W 50°30'N, 125°23'W

92K/11W

by

J.W. MacLeod, P. Eng.

Vancouver, B.C.

November 4, 1976

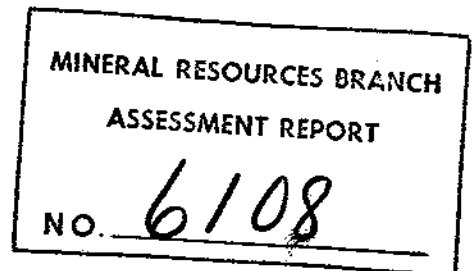


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- 3 COPPER IN SOILS
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SCALE

1" = 4 miles

1" = 2640'

1" = 200'

1" = 200'

1" = 200'

1" = 200'

INTRODUCTION

The following report has been prepared to fulfill the requirements of the Mineral Act governing the filing of geochemical work for assessment credit. The field work was carried out between October 22 and 30, 1976 by M. Swetz and D. Reinke under the direction of the author.

SUMMARY AND CONCLUSIONS

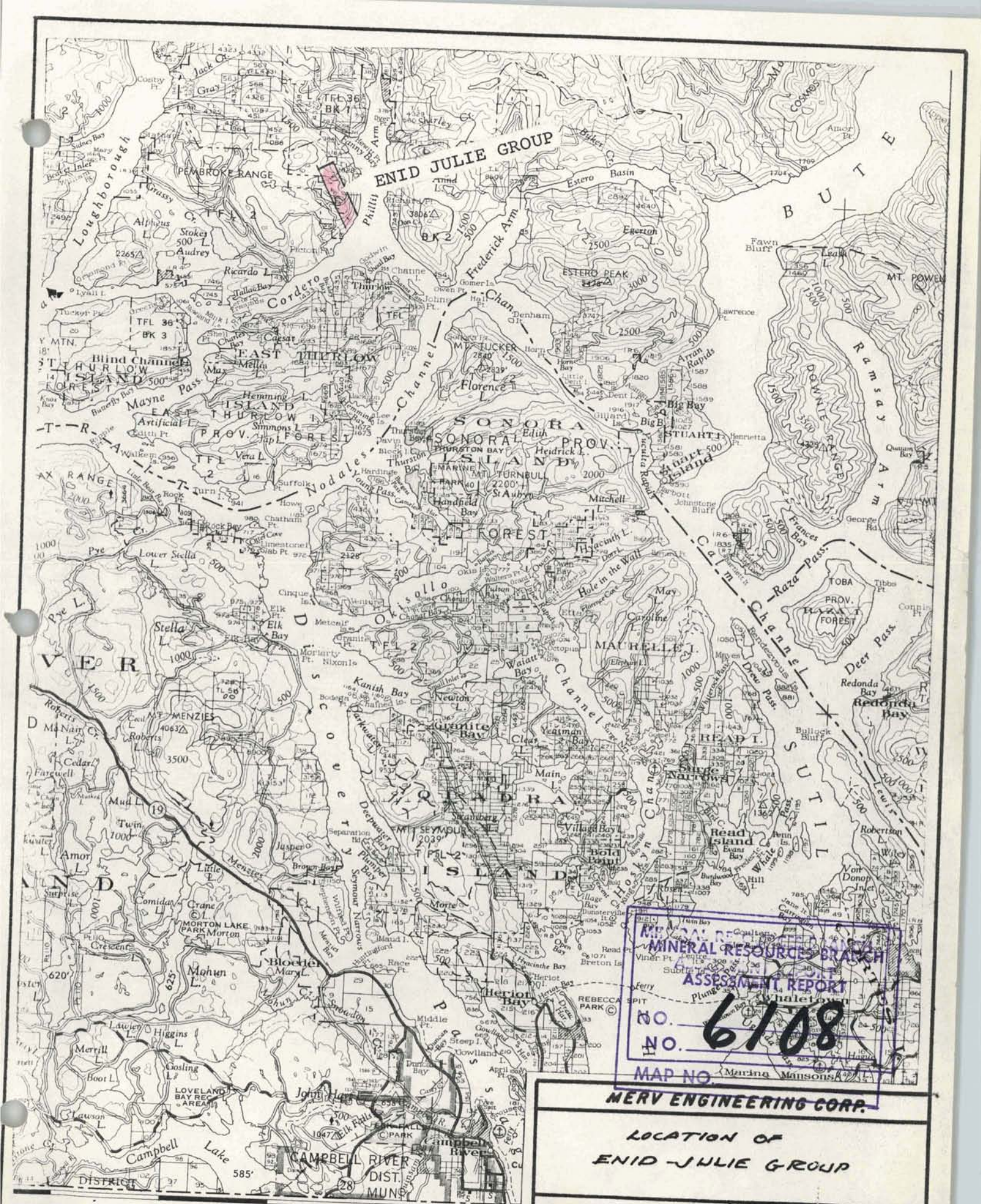
17 reverted crown grants, which according to old reports covered a number of gold silver occurrences, were acquired by Mr. Warshawski on November 6, 1975. To test the geochemical approach to exploration of these occurrences a trial survey was run over the trend of what is referred to as Enid-Julie showings.

Of 152 soil samples taken and analysed for copper, lead, zinc and silver only four isolated lead assays could be considered anomalous, therefore it must be concluded that either there is no significant mineral occurrences within the area tested or the approach of using these tracer elements for the gold showing in this area is not effective.

PROPERTY

The property under consideration consists of 17 reverted crown grants as listed below:

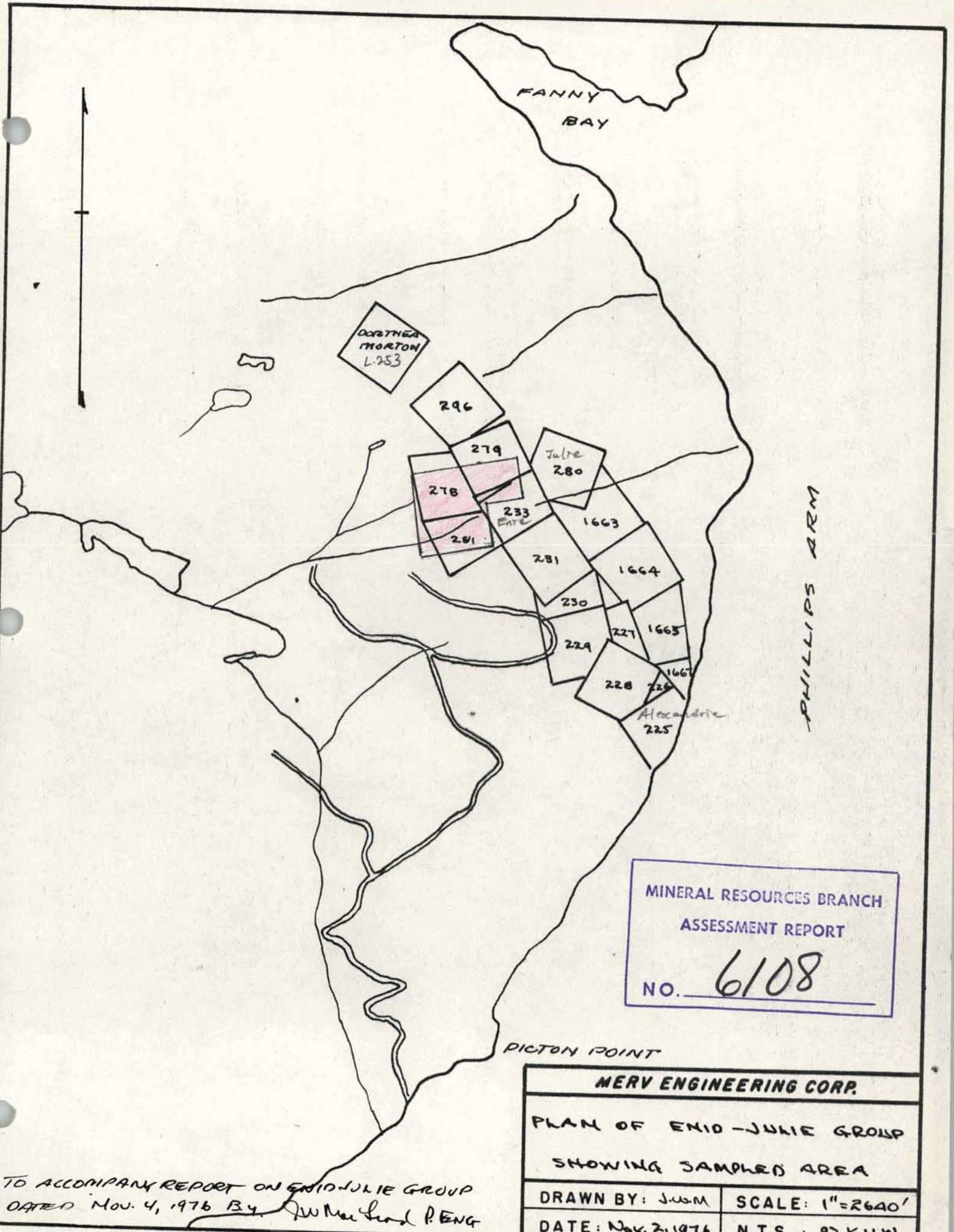
<u>CROWN GRANT</u>	<u>LOT NO.</u>	<u>RECORD NO.</u>	<u>ACREAGE</u>
Premier	1665	39	39.63
Alexandra	225	40	44.10
Premier Fr.	1667	41	11.29
Waterloo Fr.	226	42	5.55
Gold Dust Fr.	1663	43	42.78
Mary Rose	1664	44	50.79
Jennie B.	278	45	42.53
Stella	281	46	25.60
Enid	280	47	46.25
Emperor Fr.	227	48	16.50
Comox	296	49	51.00
Empress	279	50	44.90
Julie	233	51	38.84
Duchess	231	52	51.65
Jubilee Fr.	230	53	16.33
Duke	229	54	45.40
Highland Laddie	228	55	45.90



MINERAL RESOURCE BRANCH
 ASSESSMENT REPORT
 NO. 6108
 MAP NO. Mering Mansons

MERV ENGINEERING CORP.	
LOCATION OF ENID-JULIE GROUP	
DRAWN BY: J.W.M	SCALE: 1" = 4 mi.
DATE: Nov. 2, 1976	N.T.S.: 2 K/11W

TO ACCOMPANY REPORT ON ENID JULIE BY Wheeler Nov 4, 1976



MINERAL RESOURCES BRANCH
 ASSESSMENT REPORT
 NO. 6108

MERV ENGINEERING CORP.	
PLAN OF ENIO-JULIE GROUP SHOWING SAMPLED AREA	
DRAWN BY: J.W.M.	SCALE: 1"=2640'
DATE: Nov. 2, 1976	N.T.S. : 92 K11W

TO ACCOMPANY REPORT ON ENIO-JULIE GROUP
 DATED Nov. 4, 1976 BY: *J.W.M. Supt. P. ENG*

LOCATION AND ACCESS

The property is located between Fanny Bay and Picton Point, 35 miles north of Campbell River.

An active logging camp is located at Picton Point and this operation provides roads access to the upper elevations on the west side of the claims. Water or air transport to Picton Point is required from Campbell River, the closest distribution point.

For our initial test, helicopter was found to be the most practical method of access since the work was to be carried out at the higher elevations.

GENERAL

The claims are located in an area of typical west coast rain forest, where the hills rise sharply from sea level to an elevation of 3000 feet. The steep cliffs on the Enid claim preclude the collection of soil samples in the area of the known mineral occurrences.

This area is reported on extensively in the Minister of Mines Reports between 1898 and 1936. During this time a mill was located at Fanny Bay and supplied by derial tram from the Doratha Morton property which adjoins to the north east of the Enid-Julie Group.

The most extensive workings on the Enid-Julie group are located at tidewater on the Alexandria claim where detailed sampling in 1934 indicated 15,000 tons of 0.30 gold. Although ~~and~~ not mentioned in the Minister of Mines reports, an attempt was made to mine and ship this material to the Tacoma Smelter in the late 30's but sea water problems forced abandonment of this effort.

GEOLOGY

The soil sampling crew reports the presence of outcrops of sediments, andesite, gneissic rock and diorite which tends to confirm the presence of a roof pendent in this area as suggested by early maps of the coast, but Roddick's Open File 165 made available in 1973 shows only the presence of a small lens of schist and gneiss of amphibolite grade in this area.

MINERAL OCCURRENCES

Gold-silver occurrences are noted to occur on the Alexandria and Enid-Julie claims in the Minister of Mines Reports. The Alexandria showing is in a northwest trending shear and consists of gold associated with massive pyrite and little chalco. This could be the extension of the wide shear zone on the Doratha Morton.

Several occurrences of gold with notable silver values are recorded on the Enid-Julie crown grants. These are related to an east-west structure.

Galena is reported on the Doratha Morton showing, therefore it was reasonable to assume that geochemistry for copper, lead and silver would be an effective exploration method.

GEOCHEMICAL SURVEY

Due to the steep cliffs it was not possible to take samples in the area of the showings on the Enid claim so the survey was carried out on the westerly extension of this zone as mapped in the 1925 Minister of Mines Report.

Soil samples were taken at 100 foot stations on lines 400 feet apart using chain and compass for ground control.

Samples were taken from the "B" horizon and analysed for copper, lead, zinc and silver. Although the principal target in this area is gold, the samples were not run for gold since the B horizon is not considered a reliable guide to this metal. Sampling of the humus or "A" horizon where gold ions are known to concentrate is not practical in this area of extensive runoff.

ASSAY RESULTS

Copper - Copper values persist below 20 p.p.m. with only one sample at 12E5S statistically anomalous at 98 p.p.m.

Lead - Lead values are normal between 10 and 30 p.p.m. except for isolated one station anomalies at 12E9S, 20E2N, 20E2S and 20E10S where values between 120 and 265 p.p.m. are obtained.

Zinc - Values of 125 and 148 p.p.m. at 12E10N and 20E2N are statistically anomalous, where the background for this metal is relatively low at 20 p.p.m., but these values are not representative of the presence of this metal.

Silver - The highest silver value obtained was 2.2 p.p.m. which does not warrant further investigation.

RECOMMENDATIONS

The area of the isolated high values for lead should be examined in detail in view of the line spacing but the geochemical method does not appear to be an effective tool for the exploration of this property.

In view of the apparent gold-pyrite association and the lack of sufficient copper, lead or zinc to act as indicator metals this area could probably best be explored by means of a self potential survey.

Respectfully submitted,



J.W. MacLeod, P. Eng.

Vancouver, B.C.
November 4, 1976



VANGEOCHEM LAB LTD. 1521 PEMBERTON AVE., NORTH VANCOUVER, B.C., CANADA 604-988-2172

November 3, 1976

TO: Envoy Resources Ltd.,
333 - 885 Dunsmuir Street,
Vancouver, B. C. V6C 1N5

FROM: Mr. Eddie Tang,
Vangeochem Lab Ltd.,
1521 Pemberton Avenue,
North Vancouver, B. C. V7P 2S3

SUBJECT: Analytical procedure used to determine hot acid soluble Cu,
Pb, Zn, and Ag in geochemical silt and soil samples.

1. Sample Preparation

- (a) Geochemical soil or silt samples were received in the laboratory in wet-strength $3\frac{1}{2}$ x $6\frac{1}{2}$ Kraft paper bags.
- (b) The wet samples were dried in a ventilated oven.
- (c) The dried soil and silt samples were sifted by using a shaking machine with 80-mesh stainless steel sieves. The plus 80-mesh fraction was rejected and the minus 80-mesh fraction was transferred into a new bag for analysis later.

2. Methods of Digestion

- (a) 0.50 gram of the minus 80-mesh samples was used. Samples were weighed out by using a top-loading balance.
- (b) Samples were heated in a sand bath with nitric and perchloric acids (15% to 85% by volume of the concentrated acids respectively).

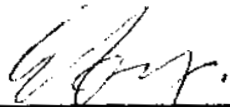
.....2

- (c) The digested samples were diluted with demineralized water to a fixed volume and shaken.

3. Method of Analysis

Cu, Pb, Zn, Ag analyses were determined by using a Techtron Atomic Absorption Spectrophotometer Model AA4 or Model AA5 with their respective hollow cathode lamps. The digested samples were aspirated directly into an air and acetylene flame. The results, in parts per million, were calculated by comparing a set of standards to calibrate the atomic absorption unit.

4. The analyses were supervised or determined by Mr. Conway Chun and the laboratory staff.



Eddie Tang
VANGEOCHEM LAB LTD.

ET:mb

APPENDIX I

(Soil analyses and assay results)



VANGEOCHEM LAB LTD.
1521 PEMBERTON AVE.,
NORTH VANCOUVER, B.C.,
CANADA V7P 2S3

TELEPHONE: 988-2172
AREA CODE: 604

• Specialising in Trace Elements Analyses •

Certificate of Geochemical Analyses

-IN ACCOUNT WITH-

Envoy Resources Ltd.
#393-885 Dunsmuir Street
Vancouver, B.C. V6C 1N5
Attention:

Report No: 76 34 003 Page 1 of 4
Samples Arrived: Nov. 1, 1976
Report Completed: Nov. 2, 1976
For Project:
Analyst: E.T., R.H.
Duplicated 4062 Job# 76 257

Sample Marking	Cu PPM	Pb PPM	Zn PPM	Ag PPM
0 BL	2	12	23	0.4
0E + 1 N	4	13	27	0.4
1	2	6	28	0.4
2	6	18	42	0.5
3	7	28	45	0.2
4	6	30	33	0.6
5	8	22	22	0.5
6	3	7	8	0.4
7	6	10	8	0.6
8	7	13	7	0.8
9	5	12	13	0.8
10E	6	8	8	0.2
1 S	16	18	38	1.0
2	6	24	22	1.2
3	2	14	15	0.6
4	4	17	18	1.2
5	3	13	12	0.6
6	7	14	10	1.0
7	7	10	10	0.9
8	25	24	28	2.2
0E + 10E	9	13	8	0.6
4E BL	8	14	10	0.6
+ 1 N	7	10	7	0.5
1	12	19	15	1.4
2	21	23	22	2.2
3	12	7	7	0.4
4	8	10	7	0.4
5	11	15	23	0.6
6	12	29	22	0.6
7	7	12	8	0.4
8	6	10	8	0.5
9	9	30	18	0.5
10E	6	10	13	0.9
1 S	11	23	15	0.6
2	4	8	13	0.3
3	8	15	13	0.4
4	6	10	7	0.6
5	6	6	8	0.4
6	13	10	38	0.6
4E + 8 S				

MASTER PRINTING LTD.

REMARKS:

Signed:

% Mo x 1.6683 = % MoS₂ 1 Troy oz./ton = 34.28 ppm 1 ppm = 0.0001% nd = none detected ppm = parts per million
All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.



VANGEOCHEM LAB LTD.
 1521 PEMBERTON AVE.,
 NORTH VANCOUVER, B.C.,
 CANADA V7P 2S3

TELEPHONE: 988-2172
 AREA CODE: 604

• Specialising in Trace Elements Analyses •

Certificate of Geochemical Analyses

—IN ACCOUNT WITH—
Envoy Resources Ltd.

Report No: **76 34 003** Page **2** of **4**
 Samples Arrived:
 Report Completed:
 For Project:
 Analyst:

Attention:

Sample, Marking	Ca ppm	Pb ppm	Zn ppm	Ag ppm
4 E - 9 S	7	12	13	0.6
4 E - 10 S	12	47	40	0.4
8 E - BL	8	15	13	1.3
1 N	12	23	22	1.3
2	5	15	8	1.0
3	6	8	23	0.2
4	8	8	8	0.7
5	25	45	23	1.2
6	2	12	7	0.3
7	11	20	18	0.9
8	6	15	5	0.6
9	4	15	10	0.7
10 N	7	23	45	0.8
1 B	8	10	10	0.6
2	10	10	8	0.8
3	3	13	5	0.4
4	5	16	7	0.7
5A	2	7	8	0.4
5B	3	8	23	0.3
6A	3	12	20	0.4
6B	5	20	13	1.0
7	10	15	15	1.1
8	4	15	8	0.4
8 E - 10 S	3	8	8	0.4
12 E - BL	8	10	10	0.6
1 N	12	55	30	0.6
2	18	20	22	0.5
3	3	7	8	0.4
4	7	10	15	0.2
5	12	15	18	1.2
6	3	13	28	0.8
7	2	10	8	0.7
8	6	12	8	0.6
9	12	23	18	1.0
10 N	12	10	125	0.5
1 S	7	13	25	0.2
2	7	22	23	0.2
3	7	8	18	0.2
12 E - 4 S	10	80	40	0.8

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 AREA CODE: 604

• Specialising in Trace Elements Analyses •

Certificate of Geochemical Analyses

-IN ACCOUNT WITH-
Envoy Resources Ltd.

Report No: **76 34 003** Page **3** of **4**
 Samples Arrived:
 Report Completed:
 For Project:
 Analyst:

Attention:

Sample Marking	Cu ppm	Pb ppm	Zn ppm	Ag ppm
12E - 5 B	98	22	24	1.5
6	12	18	90	0.3
7	4	10	15	0.6
8	6	5	12	0.5
9	2	120	53	0.3
12E - 10E	4	23	22	0.8
16E - BL	8	18	57	0.2
1 N	7	17	16	0.8
2	2	10	9	0.2
3	5	18	9	0.3
4	9	10	32	0.2
5	7	8	27	0.2
6	8	18	12	0.8
7	4	10	16	0.4
8	12	17	20	0.1
9	7	15	12	0.3
10N	4	20	23	1.8
1 B	7	20	31	0.3
2	6	12	26	0.2
3	10	15	22	0.4
4	7	40	31	1.1
5	2	23	7	0.6
6	2	20	10	0.6
7	5	18	22	0.2
8	7	83	45	0.4
9	3	15	13	0.6
16E - 10E	11	23	23	2.0
20E - BL	6	23	28	0.2
1 N	5	20	27	1.0
2	10	170	148	0.5
3	5	45	43	1.3
4	2	87	86	1.0
5A	2	18	12	0.8
5B	6	20	10	0.8
6	2	10	9	0.5
7	2	10	7	0.7
8	5	8	12	0.6
9	14	23	15	1.1
20E - 10N	8	10	28	0.4

MASTER PRINTING LTD.

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VANGEOCHEM LAB LTD.
 1521 PEMBERTON AVE.,
 NORTH VANCOUVER, B.C.,
 CANADA V7P 2S3

TELEPHONE: 988-2172
 AREA CODE: 604

• Specialising in Trace Elements Analyses •

Certificate of Geochemical Analyses

-IN ACCOUNT WITH-
Envoy Resources Ltd.

Report No: **76 34 003** Page **4** of **4**
 Samples Arrived:
 Report Completed:
 For Project:
 Analyst:

Attention:

Sample Marking	Cu PPM	Pb PPM	Zn PPM	Ag PPM
20E - 1A S	8	30	20	0.2
1B	2	8	5	0.6
2	4	18	12	1.0
4	7	125	48	0.5
5	2	15	10	0.4
6	7	8	15	0.8
7	3	7	5	0.6
8	7	13	10	0.8
20E - 10S	8	265	50	0.6
24E - BL	3	23	10	0.8
3 N	5	13	10	0.4
4	1	10	5	0.5
6	6	17	10	1.1
7	12	15	5	0.4
8A	2	10	8	0.6
8B	5	25	15	1.0
24E - 1 S	5	15	8	0.7
28E - BL	4	5	15	0.3
1 N	3	17	10	0.5
2	7	15	15	0.4
3	8	23	20	0.9
4	2	10	5	0.6
5	9	23	38	0.8
6	8	25	15	0.9
7	8	18	8	0.8
8 N	18	20	22	0.8
28E - 1 S	7	20	38	0.9
30E - BL	13	23	15	1.2
1 N	5	20	23	0.6
2	5	13	8	0.6
3	5	20	8	0.5
4	7	25	10	0.3
5	8	15	10	0.7
6	7	17	22	0.4
30E - 7 N	8	25	38	0.4
No Number	8	18	15	0.4

MASTER PRINTING LTD.

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APPENDIX II

STATEMENT OF EXPENDITURE

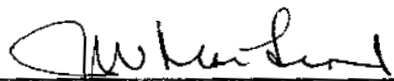
Merv Engineering payroll	\$ 1,687.50
M. Swetz - 10 days - Oct. 22-31	
D. Reinke - 10 days - Oct. 22-31	
M. Swetz - Groc. etc.	282.09
M. Swetz - Transportation	87.50
O.K. Helicopter (179302 & 179321)	500.90
Vangeochem Lab. 152 samples @3.10	471.20
Report Preparation	<u>450.00</u>
TOTAL	\$ 3,479.19

APPENDIX III

ENGINEERS CERTIFICATE

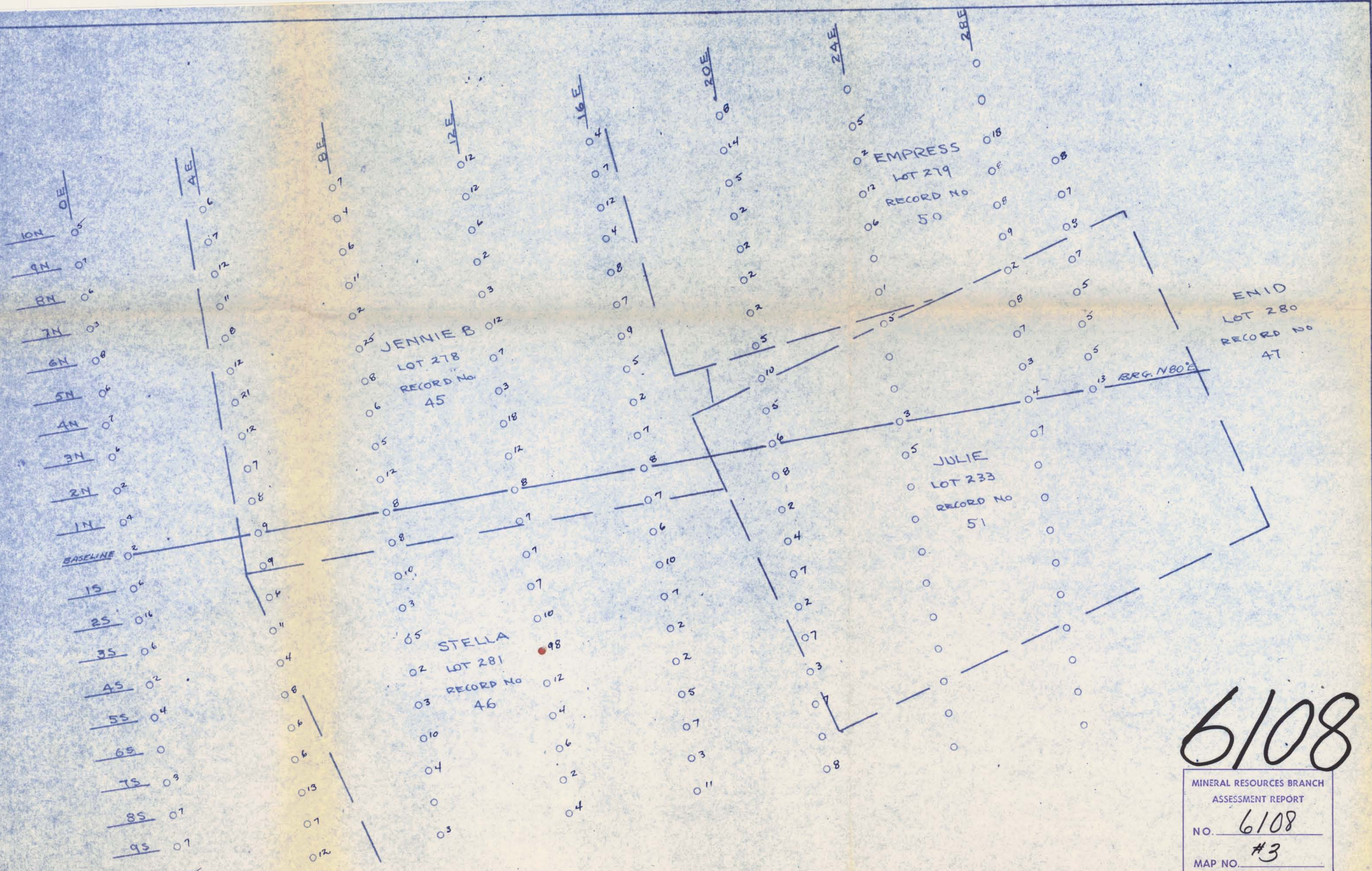
I, James W. MacLeod, of 1220 Arbutus Street, in the city of Vancouver, in the Province of British Columbia,
DO HEREBY CERTIFY:

1. That I am a Consulting Engineer, with a business address at #333-885 Dunsmuir Street, in the City of Vancouver, in the Province of British Columbia.
2. That I am a graduate of the University of Alberta with the degree of B.Sc. in Mining Engineering.
3. That I have actively practiced my profession in Mineral exploration since graduation in 1946.
4. That I am a registered Professional Engineer in the Province of British Columbia.
5. That this report is based on the results of field work carried out by M. Swetz and D. Reinke between October 22 and October 31, 1976 under the direction of the writer.



J.W. MacLeod, B. Sc., P. Eng.

Dated at the City of Vancouver,
Province of British Columbia,
the 4th day of November, 1976

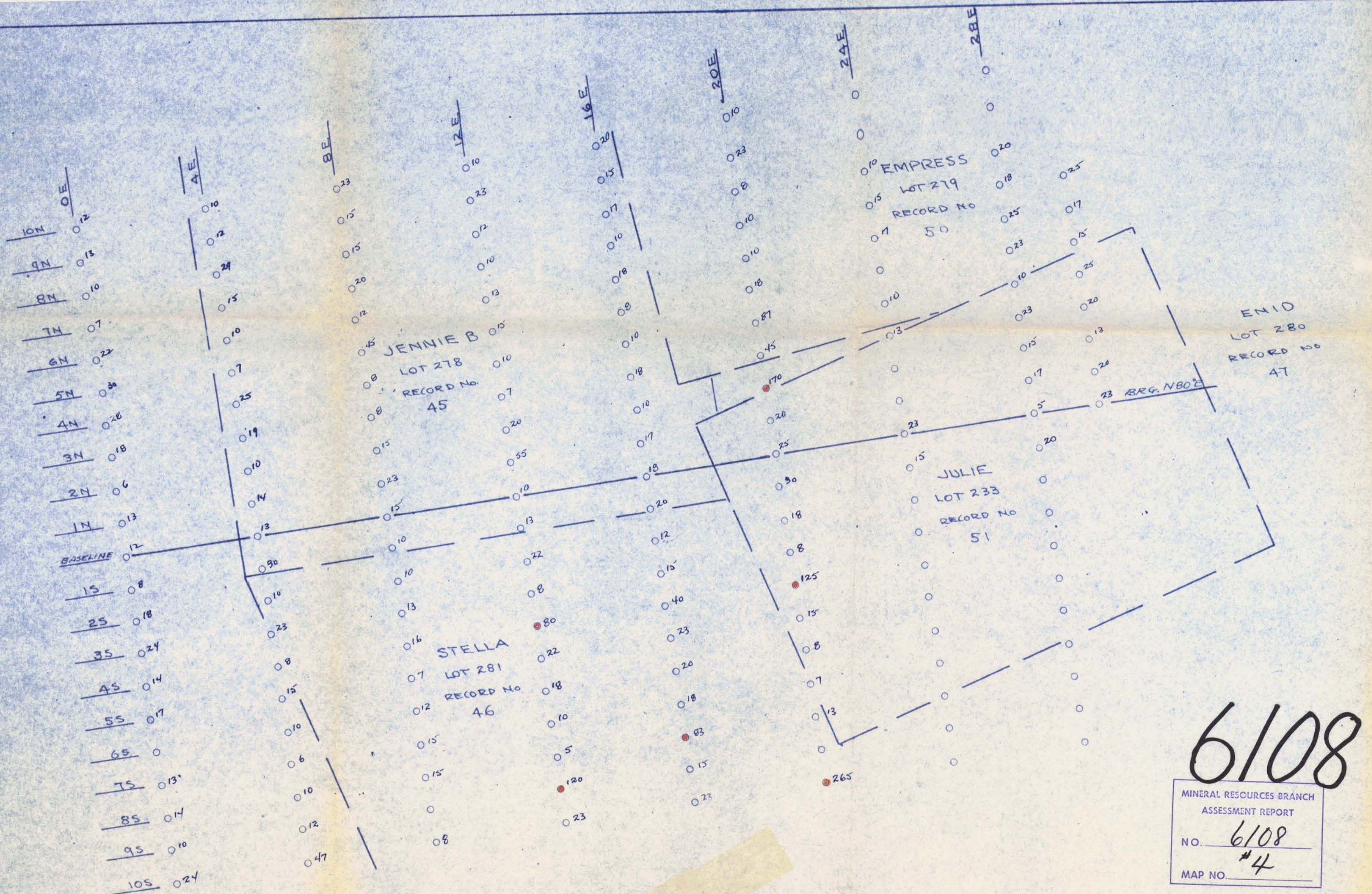


6108

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
NO. 6108
MAP NO. #3

BA COMPANY REPORT ON ENID
JULIE DATED NOV. 4, 1976 BY
JW [Signature] & PENG

MERV ENGINEERING CORP.
ENID - JULIE GROUP
G.I. IN SOILS
DRAWN BY: J.W.N. SCALE: 1" = 200'
DATE: Nov. 4, 1976 N.T.S.: BZK 11

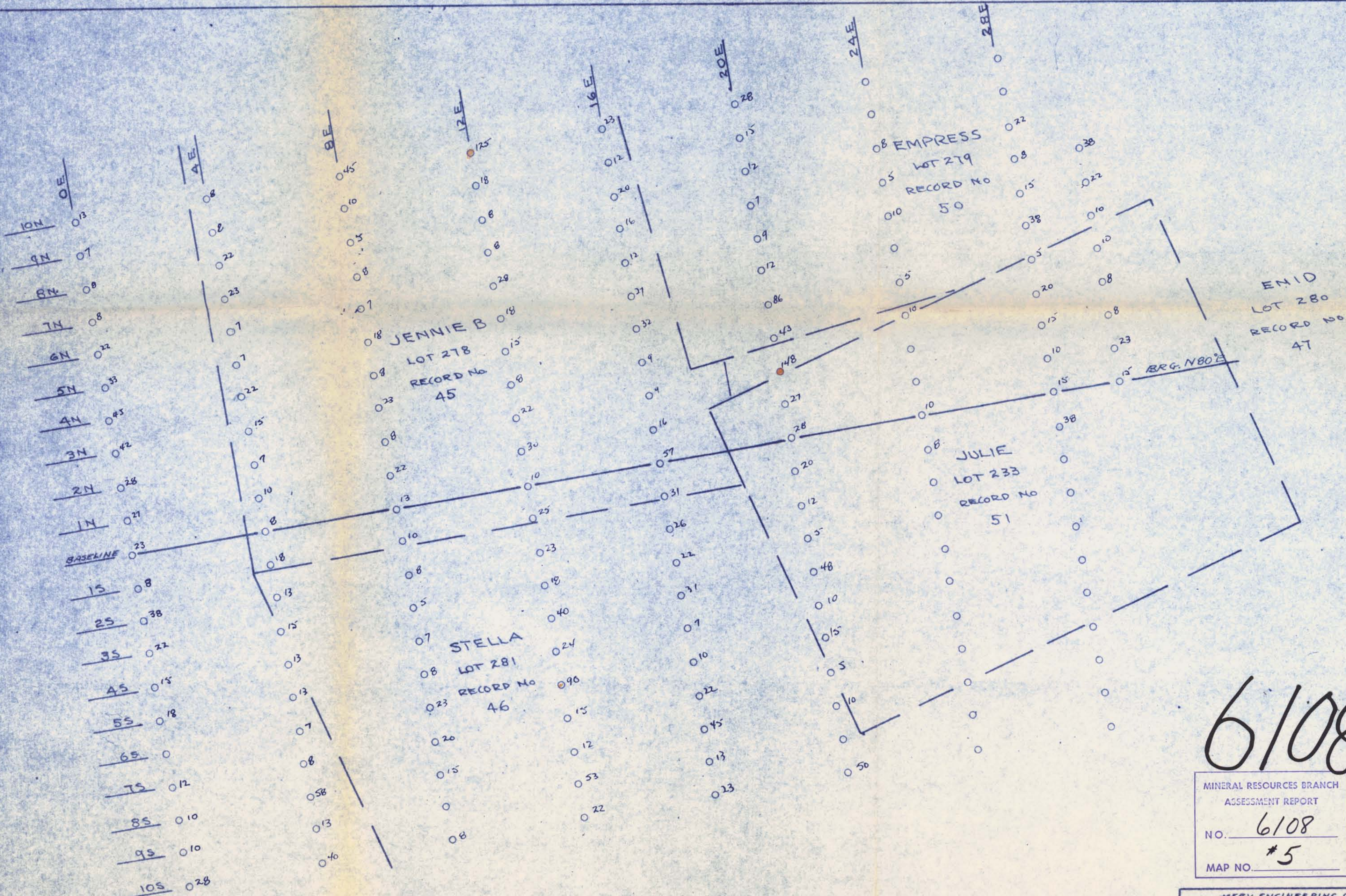


6108

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
NO. 6108
#4
MAP NO. 4

To Accompany Report on ENID
JUNE DATED NOV 4, 1976 BY
JW Marshall J. Eng.

MERV ENGINEERING CORP.
ENID JULIE GROUP
Pb. IN SOILS
DRAWN BY: J.W.M. SCALE: 1" = 200'
DATE: Nov. 4, 1976 N.T.S.: BZK 11

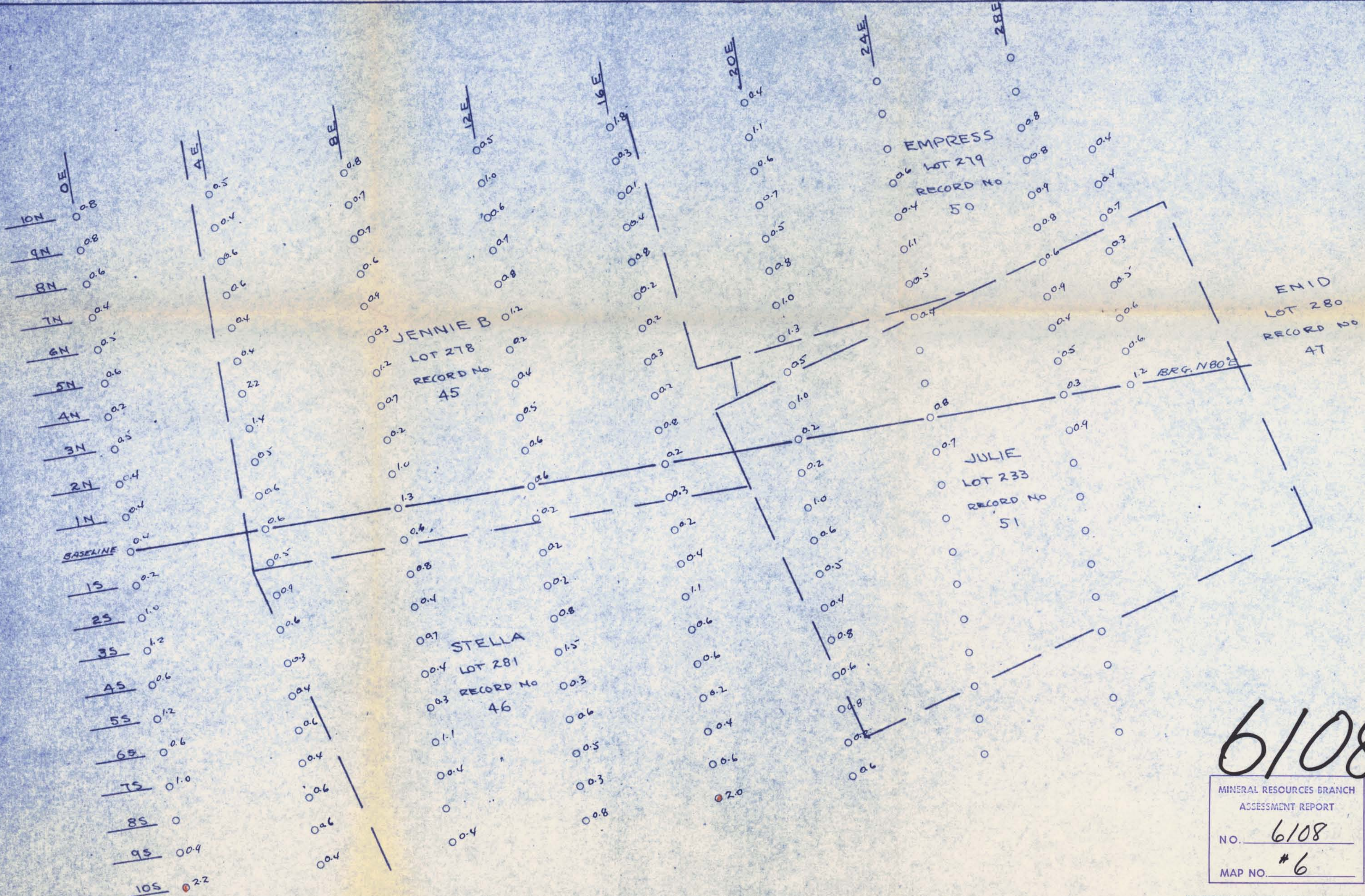


6108

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
NO. 6108
#5
MAP NO.

To ACCOMPANY REPORT ON ENID-JULIE GROUP NOV. 4, 1976 BY J. W. HANCOCK P.E.

MERY ENGINEERING CORP.	
ENID-JULIE GROUP	
Zn IN SOILS	
DRAWN BY: J.W.H.	SCALE: 1" = 200'
DATE: Nov. 4, 1976	N.T.S.: 82K11



6108

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
NO. 6108
MAP NO. #6

To Accompany Report on ENID
JULIE DATED Nov. 4, 1976 By
J.W. Lambert, P. Eng.

MERY ENGINEERING CORP.
ENID-JULIE GROUP
Ag. IN SOILS
DRAWN BY: J.W.M. SCALE: 1" = 200'
DATE: Nov. 4, 1976 N.T.S.: 82K11