GEOCHEMICAL REPORT

on the

O.B. MINERAL CLAIM and CROWN GRANTS

SKYLARK CAMP PROPERTY

GREENWOOD - PHOENIX AREA

GRAND FORKS MINING DIVISION, BRITISH COLUMBIA

49⁰05' N.LATITUDE, 118⁰38' W. LONGITUDE

NTS 82E/2

on behalf of

GEORGE O'BRIEN

by

JAMES W. McLEOD, BSc. OCTOBER 17, 1977

ASSESSMENT REPORT

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MINERAL RESOURCES BRANCH

ASSESSMENT REPORT

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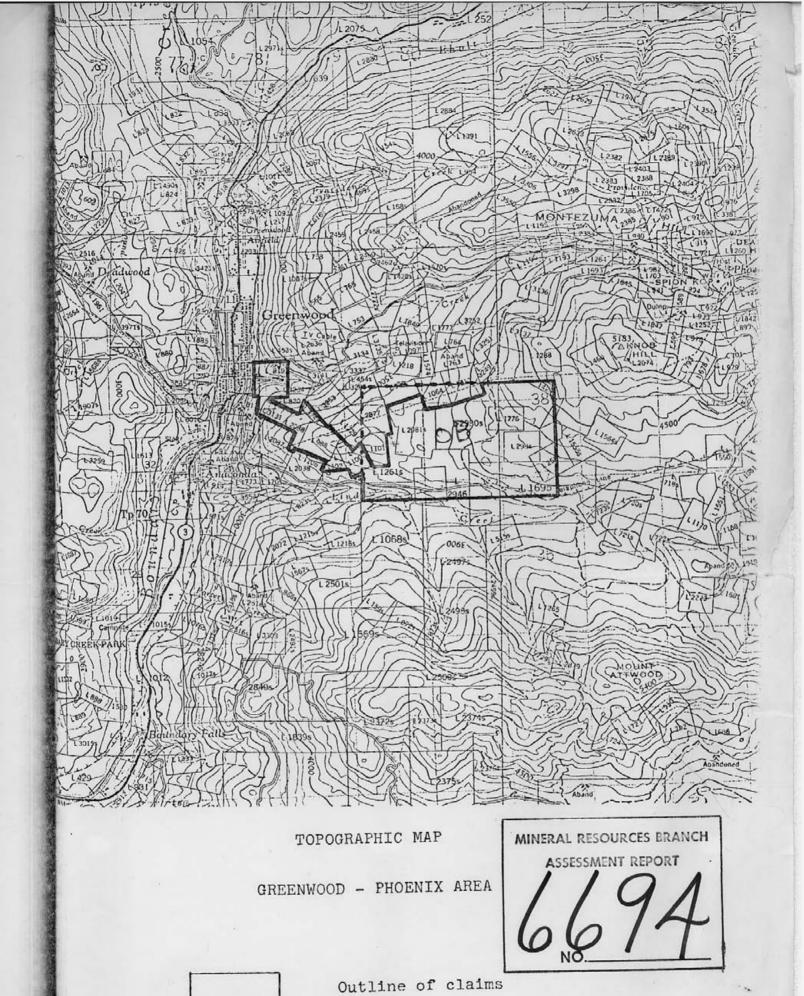
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Scale: 1: 50,000

SUMMARY

Anomalous gold values have been obtained from the geochem ical soil survey conducted over a portion of the O.B. mineral claim.

A continuing program of geochemical soil sampling and a trenching program of the anomalous areas is recommended.

INTRODUCTION

During the period May 25th to June 21, 1977 a crew, under the direction of the writer, conducted a geochemical soil survey and prospecting program over a portion of the O.B. mineral claim and reverted Crown grants.

This report is being prepared at the request of GEORGE O'BRIEN

LOCATION AND ACCESS

The O.B. mineral claim and reverted Crown grants are located approximately 3 kilometres southwest of the town of Greenwood, British Columbia.

Access to the property is provided by travelling 3 kilometres up the Lind creek road from Greenwood.

PROPERTY AND OWNERSHIP

The property consists of one mineral claim comprising 15 units and 6 reverted Crown granted mineral claims which are listed as follows:

Claim name	Record number	Expiry date
Twin	665	March 18, 1978
Connection Fr.	666 ·	March 18, 1978
Margorie	669	March 18, 1978
Trilby	667	March 18, 1978

Clipper Fr.	670	March 18, 1978
Mountain View	671	March 18, 1978
O.B.(15 units)	696	March 11, 1978

The mineral claims are owned by Geonorm Development Corporation of Vancouver, B.C.

TOPOGRAPHICAL AND PHYSICAL ENVIRONMENT

The claims lie in rounded, moderately mountainous terrain and range in elevation from 780 to 1350 metres M.S.L.

The property is tree covered with second growth fir, willows and birch with cedar occurring near the creeks. The property experiences approximately 65 cm. of precipitation per annum, with about 1-1½ metres as snow. The area is generally free of snow from May to October.

GEOLOGY ALTERATION AND MINERALIZATION

The claim area has been well described on a gross basis by Members of the Geological Survey of Canada (see Map 6-1957 Kettle River, British Columbia, Sheet 82 E east half). To generallize the claim area is underlain by Permian rocks which have been assigned to the Anarchist Group and which include greenstone, greywacke, limestone and paragneiss. The limestones of the area (Phoenix camp) have been most productive, these have been locally termed the Brooklyn formation.

The alteration minerals observed in the area are those typical of metamorphosed limestones, namely garnet, epidote, chlorite and calcite in a skarn. The following list of types of mineral occurences are common to the general area:

- a) Chalcopyrite, pyrite and magnetite in an altered limestone or skarn, often carrying significant gold and silver values.
- b) Quartz-carbonate filled shears and veins containing galena,

sphalerite, silver and various silver sulphides.

c) Forphyry type copper mineralization in argillaceous sediments, volcanics and intrusive rocks carrying significant gold and silver values.

All of the above types of mineralization can be sought for on the O.B. property.

WORK PROGRAM

GEORGE O'BRIEN has partially carried out the recommended geochemical, reconnaisance soil survey, this included the installation of flagged and blazed lines on two sizes of grids, one 60 by 60 metres and the other 15 by 15 metres (see geochemical grid plan). The samples were taken from the 'B' soil horizon, placed in Kraft bags and air dried. The samples were sent to Acme Analytical Laboratories Ltd. 6455 Laurel Street, Burnaby, B.C., V5B 3B4 where they were analysed by the atomic absorption method for Cu., Zn., Au., Ag. All analyses are reported in parts per million (see Appendices).

The exploration program so far performed also included detailed prospecting of much of the property, cleaning-out, and sampling a number of pits and a 3 metre shaft. A number of rock samples were obtained and sent in for analyses, these results are reported in the Appendix.

CONCLUSIONS AND RECOMMENDATIONS

To date not enough soil sample results are available to accurately establish "background" values for copper and gold by frequency distribution, but an estimate has been made by the writer of the lowest anomalous limits. They are 40 parts per million for copper and 0.01 parts per million for gold. On this basis two generally anomalous areas are

indicated on the O.B. claim. They are in the southwest and south central areas of the claim (see Geochemical Soil Survey Plan). The prospecting to date has not revealed any new areas of mineralization, but has indicated the availability of outcrop on the property. The shaft and pits that were cleaned-out only exhibited sparse sulphide mineralization as chalcopyrite and sphalerite. The claim area shows some indications of mineralization and warrants further exploration work.

The writer recommends that the soil survey be continued over the entire claim group in conjunction with a magnetometer survey with stations every 30 metres. A geological mapping program should be undertaken at the same time. Any anomalous areas should be trenched and/or percussion drilled depending on the thickness of overburden encountered.

COST ESTIMATE

Phase I

Line installation, geochemical and mag. surve	y \$2250
Geological mapping	1500
Room and board	900
Transportation	450
Equipment and supplies	250
Analyses	1500
Trenching Sub-	1500 total 8300

Phase II

Percussion drilling

9000

Contingency

Total \$20,000

Respectfully Submitted,

JAMES W. McLEOD, Geologist

CERTIFICATE

I, JAMES W. McLEOD, of the City of Vancouver,
Province of British Columbia, hereby certify as follows:

- I am a geologist and an Associate Member of the Geological Association of Canada.
- 2) I reside at 4086 West 17th Avenue, Vancouver, British Columbia, V6S 1A6.
- 3) I graduated in 1969 from the University of British Columbia, BSc. (Major Geology).
- 4) I have practised my profession since 1969.
- 5) The above report is based on fieldwork performed under my direction by others during 1977.

AMES W. MCLEOD, BBC.

Dated at Vancouver, B.C., this Thirteenth (13) Day of August, 1977.

APPENDIX

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis
George O'Brien 6455 Laurel St., Burnaby, B.C. V5B 3B4

Tel: 299-5242

Box 254

TO

Greenwood B.C.

ANALYSES CERTIFICATE

File No. 7319

Type of Samples Soils

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38

39

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All results are in parts per million.

DATE SAMPLES RECEIVED July 5, 1977

DATE REPORTS MAILED July 8/1977

ANALYST

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ACME ANALYTICAL LABORATORIES LTD. Assaying & Trace Analysis

6455 Laurel Street * Burnaby, B.C. VSB 3B4

Telephone: 299-5242

Box 254

Greenwood B.C.

George O'Brien

ASSAY CERTIFICATE

File No7319	
Type of Samples	Rocks
Dissocition	

No.	Sample	Cu%	Zn%	Ag oz/ton	Au oz/ton	N
1	462	.01	.01	. 02	.001	1
2	463	.01	.01	. 04	.001	2
3						3
4			_			4
5						5
6						6
7						7
8						8
9						9
10						1
11			· · · · · · · · · · · · · · · · · · ·			1
12	<u></u>					1
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15						1
16						1
17	·····					1
18						1
19	·· · · · · · · · · · · · · · · · · ·		· · · · · ·			1
20						2

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DATE SAMPLES RECEIVED July 5, 1977

DATE REPORTS MAILED JULY 8, 1977

ASSAYER

DEAN TOYE, B.Sc. & CHIEF CHEMIST CERTIFIED B.C. ASSAYER P. 1

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis 6455 Laurel St., Burnaby, B.C. V5B 3B4 Tel: 299-5242

George O'Brien

Box 254

ANALYSES CERTIFICATE

File No. 7290

Type of Samples

Disposition _____

Greenwood, B.C.

No.	Semple	Мо	Cu	Zn	Ag	Au						1	٠. ا
01	452 R	<u> </u>	15	27	.1	ND						0)1
02	453		21	44	.1	ND			 			0	12
03	454	 - -	25	57	.1	ND		1	-				3
04	455		9	38	.2	ND		!)4
05	456		11	17	.1	ND		 					:- 5
06	457	١ ،	59	50	.1	ND		ļ <i>-</i>					16
07	458		20	29	-1	ND		i					17
OB.	459		64	51	.1	ND		1	-				8
09	460		107	72	-1	סא						0	9
10	461R		14	132	.1	ND							0
11								1					i
12								 	·				2
13			<u> </u>					i				1	13
14												1	4
15											-	1	5
16			<u> </u>									1	6
17													7
18								 					8
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20								-					20
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36												3	36
37													37
38			<u> </u>]		3	38
39			!									3	39
40]										40

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DATE SAMPLES RECEIVED June 17, 1977

DATE REPORTS MAILED June 14, 1977

ANALYST_

TO

P.2

George O'Brien

Greenwood, B.C.

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ANALYSES CERTIFICATE

File No. _7290

Soi1 Type of Samples . amers to be liscopney and me

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No.	Sample		Мо	Cų	Zn	Ag	Au				-		No.
01	(NW 1 0			11	23	.1	ND				 	-	01
02	200E			18	31	.2	ND		<u> </u>				02
03	400		-	14	33	.1	. 15		 				03
04	600			17	32	-1	ND			 			04
05	800E	\neg		19	50	.1	.01			1			05
06	200W			17	42	-1	ND			1			06
07	400			13	31	. 1	.08						07
08	600			21	34	. 1	ND						08
09	NW 1 800W			23	41	. 1	. 02						09
10	NWS	12											10
11	NN 2 0			22	52	.2	. 02						ti
12	200E			17	57	. 1	סא						12
13	400			33	65	. 1	ND						13
14	600			21	62	.1	ND						14
15	800E			44	62	.1	ND		_				15
16	200W			22	44	.1	.07√						16
17	400			18	36	. 1	ND						17
18	600			27	38	.1	.05						18
19	NW 2 800W	,		20	43	.2	.02						19
20	e	e				· · · · · · · · · · · · · · · · · · ·							20
21	NW 3 0 200E			27 22	48 72	. 1	ND						21
22						. 3	מא						22
23	400			15	52	.2	ND			<u> </u>			23
24	600 800E			15	43	.1	ND						24
25	200W			12 14	37	.1	ND						25
26	400	} -			48 73	.1	ND						26
27	600	 -		27	73 52	.3	ND			 			27
28	NW 3 800W		· 	12	32	.1	ND ND	·					28
29 30	111 3 OCON	-		12	34.	· ·	10.			 			29
31	NW-4 0	 	·	17	70	.2	ND			 			30
32	200E			9	69	.1	ND			 			
33	400	 -		14	51	-1	ND			 		-	32
34	600			12	36	.1	ND			 -			34
35	800E	+		11	35	.1	ND	-	····	 		 	35
36	200W			13	39	.1	ND			1		-	36
37	400	-		17	92	.3	ND						37
38	600			23	74	.1	ND						38
39	NW 4 800W			25	52	.1	ND						39
40													40

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DATE SAMPLES RECEIVED June 17, 1977 DATE REPORTS MAILED

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TO

P.3

Greenwood, B.C.

ANALYSES CERTIFICATE

File No. 7290 Type of Samples Soil

Disposition .

No.	Sample	Мо	ů	Zn	Ag	Au			No.
01	NW5 0		13	34	.1	ND			01
02	200E		10	42	.1	ND			02
03	400	· · · · · ·	13	54	.1	ND			03
04	600		7	50	.1	ND			04
05	800E		16	47	.2	ND			0.5
06	200W		13	34	.1	ND.			06
07	400		25	64	.1	ND			07
08	600		26	70	. 1	ND			08
09	NW5 800W		19	65	. 1	ND			09
10					<u> </u>				10
11	NW6 0		13	47	. 1	ND			11
12	200E		11	38	. 1	ND			12
13	400		8	26	.1	ND	<u> </u>		13
14	600		. 10	35	.1	ND			14
15	800E		8	36	.1	.02			15
16	200W		21	43	.1	ND			16
17	400		15	52	.1	ND			17
18	600		16	74	.1	ND			18
19	NW6 800W		21	54	. 1	ND			19
20									20
21	SE4 200E		9	28	.1	ND			21
22	400		17	40	. 1	ND			22
23	600		19	60	. 1	ND			23
24	SE4 800E		22	44	.1	ND		 	24
25					<u> </u>			 	 25
26	SE5 0		11	25	.1	ND			 26
27	200E		16	44	. 1	ND		 	27
28	400		16	45	.1	ND		 	 28
29	600		17	54	.1	ND		 	29
30	SE5 800E		12	40	1.1	DN	<u> </u>	 	30
31								 	31
32	\$E6 0		30	40	• 1	ND	L	 	32
33	200E		19	43	.1	ND	<u> </u>	 	 33
34	400		15	41	1.1	ND		 	 34
35	600		17	33	.1	ND		 	 35
36	SE6 800E		21	66	.1	ND	ļ <u>ļ.</u>	 	 36
37				<u> </u>		<u> </u>	 	 	 37
38					ļ		 	 	38
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DATE SAMPLES RECEIVED	June		
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DATE REPORTS MAILED	201	K	2/12

ANALYST ___

P. 4

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George O'Brien

Box 254

ANALYSES CERTIFICATE

File No. __7290 Type of Samples Soil

Greenwood, B.C.

Disposition _

No.	Sample	Mo	ð	Zn	Ag	Au			No.
01	SE 7 0		28	44	.1	ND			01
02	200E		15	36	.1	ИD			92
03	400		14	48	.1	DN			03
04	600		27	52	.1	ND	·		04
0.5	SE 7 800E		24	51	.1	ND			05
06									06
07	SE 8 0		28	45_	.2	.06 √			07
08	200E		_13	28	1	.01			08
09	400		43	40	.2	ND			_G 9
10	600		21	32	.1	ND			10
11	SE 8 800E		26	33	.1	.04			11
12									12
13	SE 9 200E		23	43	. 1	ND			13
14	400		29	62	.1	ND			14
15	600		16	29	.1	.01			15
16	SE 9 800E		23	31	.1	ON			16
17									17
18	SE 10 400E		32	41	.1	ND			18
19	600	- 1	25	44	. 1	ND			19
20	SE 10 800E		28	39	.2	ND			20
21			-						21
22	SE 2 0		16	42	. 1	ND			22
23	200E		17	37	.1	.03		1	23
24	400		15	44	.1	ND			24
25	600		19	34	.1	ND			25
26	800E		22	53	. 1	ND			26
27	200W		21	30	2	ND			27
28	400		26	55	.1	ND			28
29	600		23	29	.1	ND			29
30	SE 2 800W	У	46	34	3	ND			30
31									31
32	SE 3 0		18	39	.1	ND		<u> </u>	32
33	200E		29	52	.1	ND			33
34	400		12	34	. 1	ND			34
35	600		17	32	.1	ND			35
36	800É		11	37	. 1	ND			36
37	200W		23	31	.2	ND			37
38	400		24	32	.2	ND			38
39	600		17	48	. 1	ND			39
40	SE 3 800W		12	31	.1	ИD			40

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June 17, 1977 DATE SAMPLES RECEIVED DATE REPORTS MAILED June 24

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ANALYSES CERTIFICATE

File No. 7290

Disposition ___

Type of Samples _Soil

Greenwood, B.C.

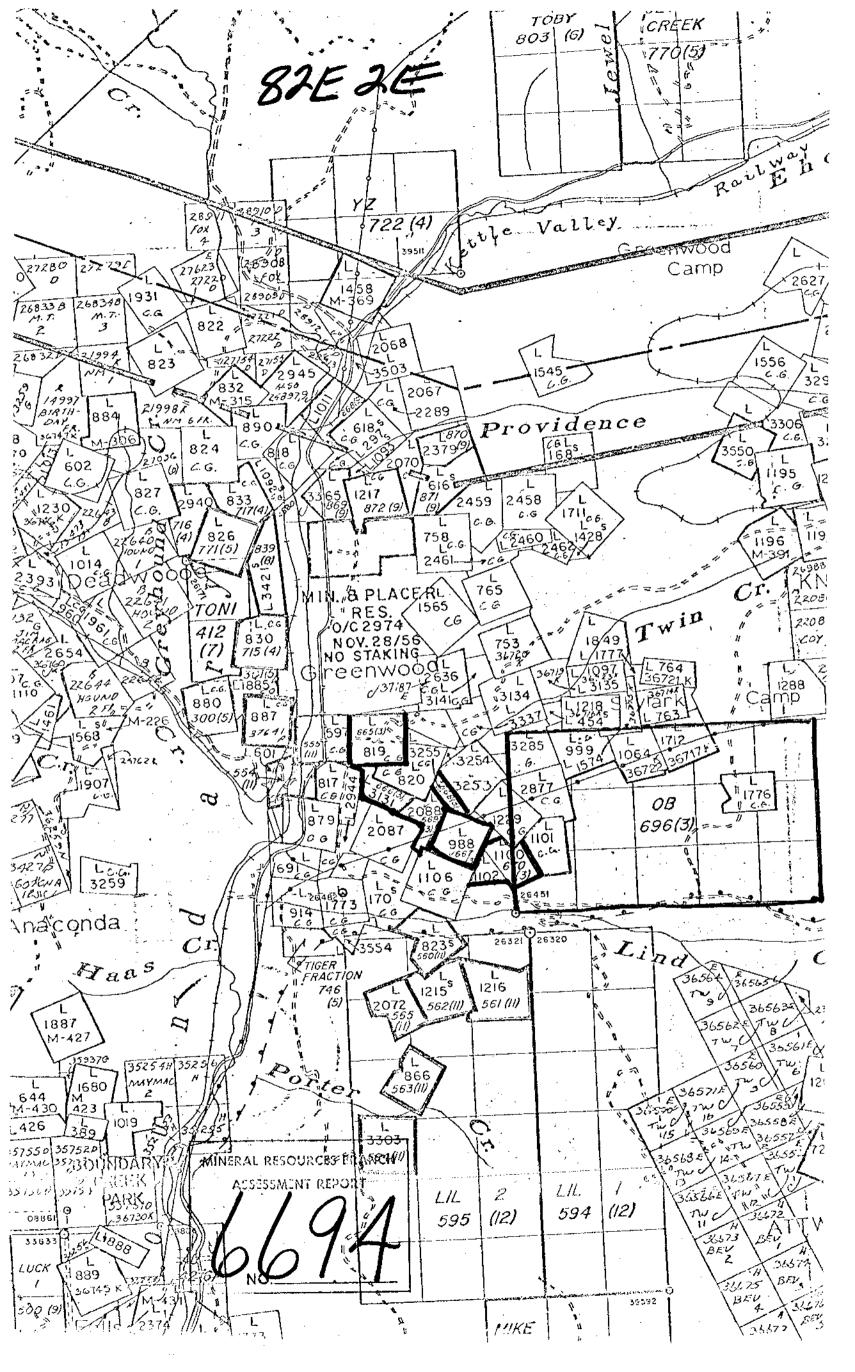
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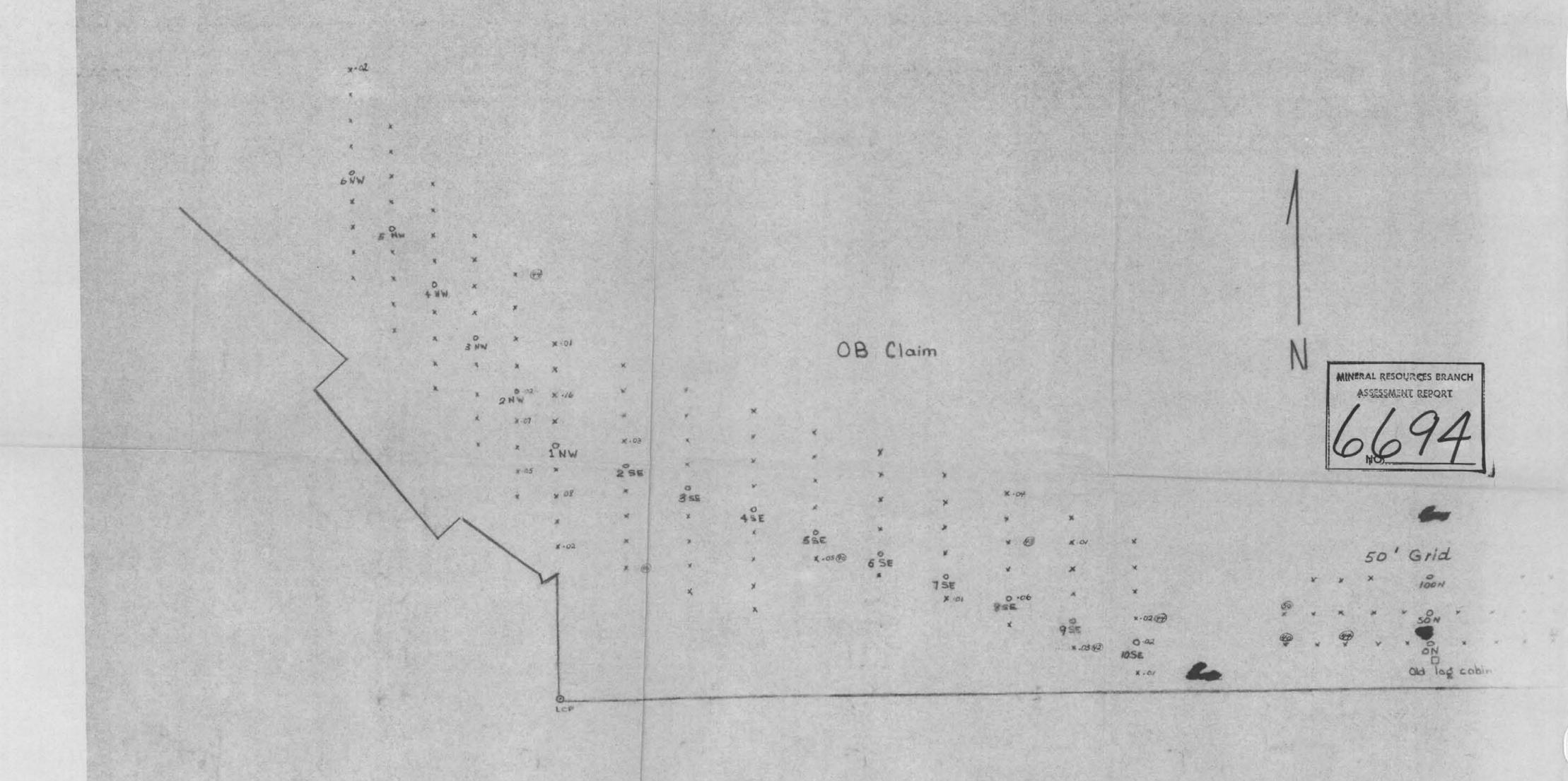
All results are in parts per million.

DATE SAMPLES RECEIVED June 17, 1977

DATE REPORTS MAILED June 24, 1977

ANALYST (January)





GEOCHEMICAL SURVEY

GEONORM DEVELOPMENT

COMPONATION

Scale

Misin gaid 1" - 150 metres

Small gard 1" a 30 metres

Legend

@ Anomalous Copper on //