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STATEMENT OF WORK  
for  
BEAR MINERAL CLAIM GROUP  
No. 5980  
19 UNITS  
in the  
GREENWOOD MINING DIVISION , B.C.

Map No. 82E/2E

Lat. 49°10'

Long. 118°35'

on behalf of

JOHN KEMP

BOX 866

GRAND FORKS, B.C.

VOH 1H0

by

JOHN KEMP

DON HAIRSINE

May 20, 1992

PAID  
GOVERNMENT AGENT

JUN 2 1992

NELSON

TRANS. #.....

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**22,348**

## TABLE OF CONTENTS

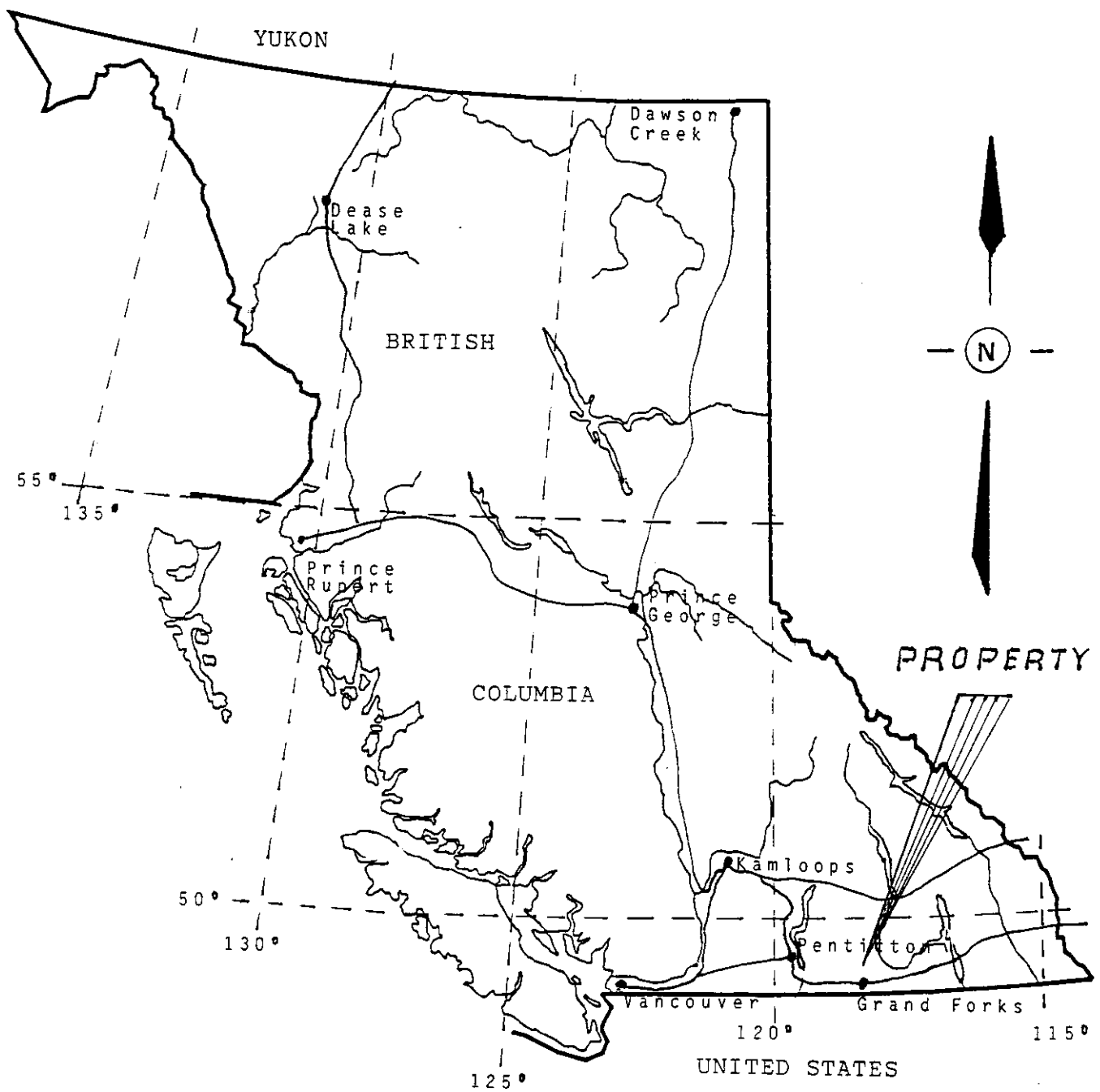
INTRODUCTION	1
LOCATION MAP (Figure 1)	2
SUMMARY	3
CONCLUSION & RECOMMENDATION	4
HISTORY	5
LOCATION & ACCESS (Figure 2)	6
CLAIM MAP (Figure 3)	7
PROPERTY & ACCESS	8
WATER & POWER - PHYSIOGRAPHY & CLIMATE	9
GEOLOGY	10
MINERALIZATION	11
MAGNETOMETER SURVEY	12
TURBOCON & PROCEDURE	13
MAGNETOMETER SURVEY DATA SHEET (Figure 4)	14
MAGNETOMETER SURVEY OBSERVATIONS	15
CONTOURS (200 & 500 intervals) BEAR NORTH (Figure 5)	16
CONTOURS (500 intervals) BEAR SOUTH (Figure 6)	17
CONTOURS (200 intervals) BEAR SOUTH (Figure 7)	18
STATEMENT OF QUALIFICATIONS	19
CERTIFICATE	20
STATEMENT OF EXPENSES	21
1:5000 CLAIM MAP (Figure 8)	22

## INTRODUCTION

From results of exploration in 1990/91 on the Bear Claim No. 5890, additional claims were added to form the Bear Claim Group. These were added to cover old workings discovered in last years fieldwork and is a possible continuation of mineralization which trends off Bear.

Extensive prospecting was carried out on the Cub claims and because of excessive overburden, it was decided that a Geophysical Survey would determine if any correlation exists between showings on the Bear and Cub claims.

This report relates information as to the results thereof and recommendations for future exploration on the claim group.



LOCATION MAP

BEAR CLAIM GROUP

GREENWOOD MINING DIV.

LAT. 49°10' LONG 119°35'

SCALE	DATE	NTS	FIGURE
1:6,400,000	MAY 10/92	88E/28	1

### SUMMARY

Fieldwork on the property was confined to the northwest corner (referred to in this report as "Bear North") and the centre portion (referred to as "Bear South") of the claim group.

The grids from fieldwork in 1990 were re-established with the extension of existing lines and the addition of new lines for a total of 7700 meters. Intensive prospecting on the grids and random traverses were carried out on the Cub claims. Good results around the old trenches were obtained and which appear to tie in with showings on the northwest of Bear. Eighteen assays were processed and results were positive with highs of 10700 PPB Gold and 19254 PPM Copper.

During April of 1992 a Geophysical Survey was carried out on "Bear North" and "Bear South". The purpose of the Geophysical Survey was to locate potential sulphide bearing zones comparable to those known to exist in the immediate area. Results from the survey were successful in delineating potential areas of mineralization and confirming geology on the property as is reported in the conclusion.

## CONCLUSION

The Geophysical Survey on the Bear group was successful in delineating anomalous zones of which a number of zones could be significant in defining potential mineralized structures.

On the Bear North grid the low Magnetometer correlation with the creek could confirm a fault. On Bear South two anomalies were noted which may be possible alteration zones when correlated with prospecting notes. Samples were assayed from one zone with the result of a number of parallel magnetic lows indicating some possible shear zones, and also observed in fieldnotes.

The Magnetometer survey results could also have been successful in locating the Knob Hill and Brooklyn Groups contact with the Coryell Group to the east.

## RECOMMENDATIONS

Fieldwork on this property should now involve a Geochemical survey on both grids and possibly a Self Potential Survey as it may indicate the sulphide zones more readily. These programs when overlain with the magnetometer program will result in a better understanding of the property.

## HISTORY

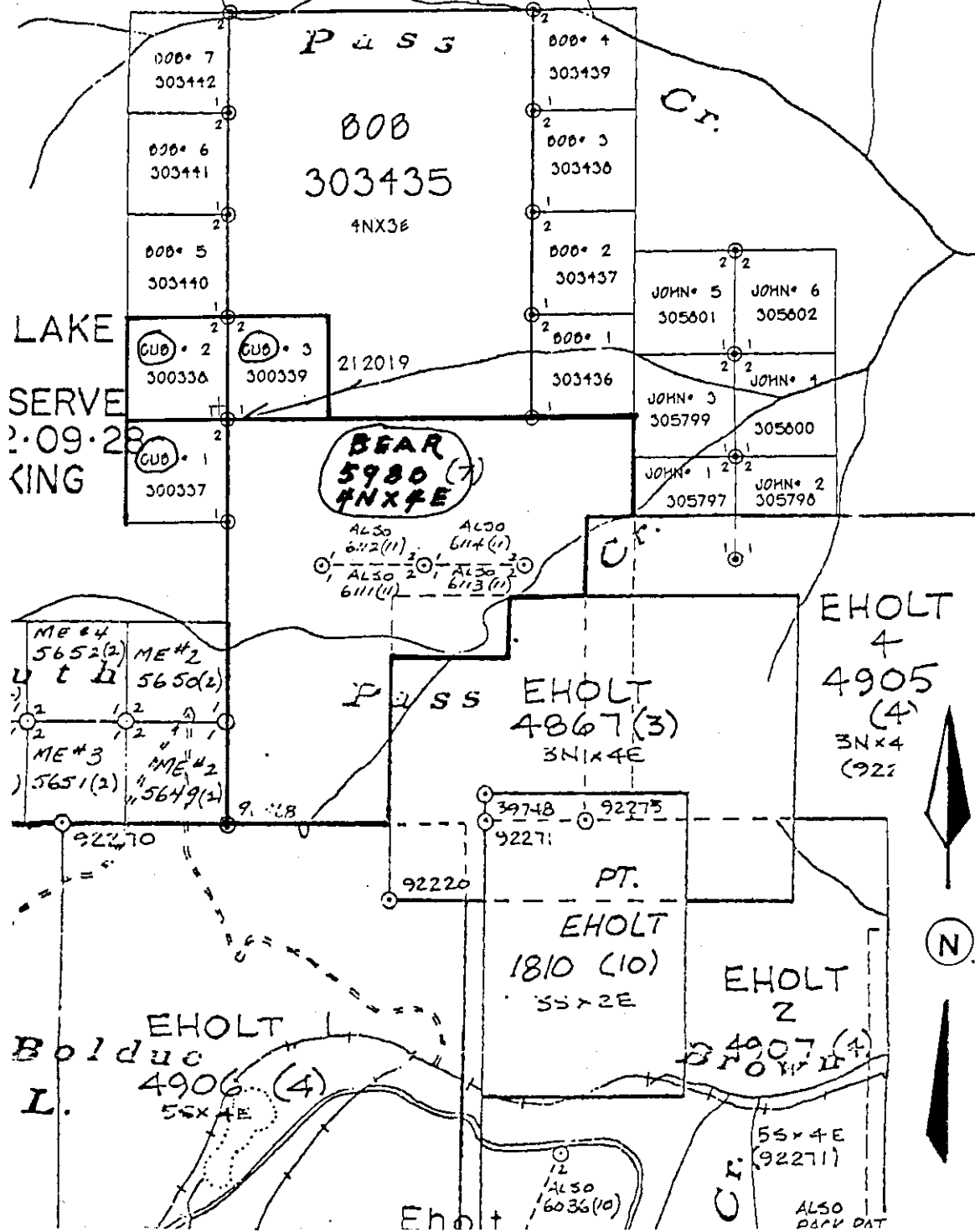
The history of the area stems back to the discovery of the copper, gold deposits of the Pheonix area. The Pheonix district produced approximately 28 million tons of ore averaging slightly over 1.5 o/o copper with significant gold and silver values.

In the immediate vicinity the Detonia Mine near Jewel Lake has produced gold and silver, but is presently closed. Also in the area are the tailings of another gold producer at Jewel Lake.

Many small workings appear on the property, the largest being three, twenty meter shafts, but no major development has taken place.







<b>CLAIM MAP</b>			
<b>BEAR CLAIM GROUP</b>			
GREENWOOD MINING DIV.			
LAT 49°10' LONG 118°35'			
SCALE	DATE	NTS	FIGURE
1:31680	MAY 10/92	32E/82	3

### PROPERTY

The property consists of one four post claim and three two post claims to the northwest.

Claim Name	Units	Record No.	Expiry
Bear	16	5090	July 8, 1992
Cub No. 1	1	300337	June 10, 1992
Cub No. 2	1	300336	June 10, 1992
Cub No. 3	1	300339	June 10, 1992

The Bear Claim Group is located in the Greenwood Mining District and is on Map Sheet No. 82E/2E Lat. 49°10' Long. 118°35'. The claim group is situated on the east side of Pelly Mountain and encompasses the drainage area and headwaters of the South Pass Creek.

### ACCESS

Good access to this area is off Highway No. 3 at Eholt which is 17 Km east of Greenwood or 23 Km west of Grand Forks. After leaving Highway No. 3 proceed north up the South Pass Forestry Road for 2½ Km, this will place one at the Southwest corner of the property and the road continues on through the northwest of the claims.

South Pass forestry road is an active logging road.

### WATER AND POWER

Sufficient water for all phases of exploration would be available from the easterly flowing tributaries of South Pass Creek which bisects the property.

A commercial power line is 3Km south at Eholt.

### PHYSIOGRAPHY AND CLIMATE

The area lies to the east of Pelly Mountain which is part of the Almond Mountain range of the Monashees.

The property is characterized by moderate to steep sloped forest to the west and a relatively flat to moderate dipping valley to the east.

The area has forest cover of pine, larch, cedar and poplar with a considerable area having been logged. The property is heavily covered with overburden. The general climate is of long arid summers, with moderate winters which provides an exploration season of up to eight months.

## GEOLOGY

The general geology of the area is of the Nelson Group to the Northwest and the Knob Hill and Brooklyn Groups central and south and in the contact with the Coryell intrusions to the east. The Knob Hill Group is also predominate in the West and Southwest.

The Cretaceous rocks of the Nelson Group, mostly granodiorite, quartzdiorite and minor diorite are dominant in the Northwest.

On the East is the Eocene age, Penticton Group rocks which are made up of dikes and sills and irregular plutons of syenite and diorite intrusions. Also present are flows of andersite.

In the centre and Southwest of the area lay the Permian, Kob Hill Group consisting of siliceous greenstones, fine chert breccia, conglomerate and minor limestone.

In the centre of the area and South of the Knob Hill Group is the Triassic, Brooklyn Group consisting of chert breccia and sharpstone conglomerate. Minor amounts of fine grained diorite are found along with fragmental greenstone. Hornfels and skarn are also present.

## MINERALIZATION

Mineralization appears in sheer zones, mainly disseminated sulphides and some times massive pyrrhotite, pirite and small amounts of chalcopyrite are seen throughout the property. On the Cub No. 2, a mafic type rock, magnetic with pyrite and chalcopyrite is present, found in one of the trenches and appears as an anomaly on the magnetometer survey.

### MAGNETOMETER SURVEY

The Magnetometer Survey was carried out utilizing a Proton Unimag II Model G846, manufactured by EG & G Geometrics.

The survey was carried out on grids using 40 meter stations on the baseline and 20 meter stations on the grid lines.

On the Bear north grid repeated readings at baseline station No. 03 +20N were made after each line to check for time variations. On Bear south station No. 06 +00S was used. No correction for time variation was made. At each station three readings were taken, and a low profile reading to delineate surface magnetite. Field person was demagnetized and all readings were oriented to north.

Field results were forwarded to Addie Consultants of Nelson, B.C. and contoured by use of a Turbocon program.

## TURBOCON

This is a computer contouring program that contours up to seven hundred data points using twenty contours. Contours are derived from the interpolation of Delaunay triangle sides using methods derived in 1981 and employed in both the U.S. Geological Survey and National Oceanographic and Atmospheric Administration contouring programs. Although the final contours are angular appearing they are not in any way less accurate than a map having "smoothed" contours.

The advantage of this program is that it is very fast allowing one to experiment with the data. For instance, in this study, maps with 500 gamma contours and 200 gamma contours were produced. While the 200 gamma maps are quite dramatic in identifying anomalies it is with the 500 gamma maps that interpretations can be most easily made. All maps have been made on the same scale as the original data maps.

The only disadvantage of this program is the small output map of six square inches. However, larger maps can be made by joining sections together.

One can conclude that for a small survey area such as this project the "Turbocon" is an ideal contouring program.

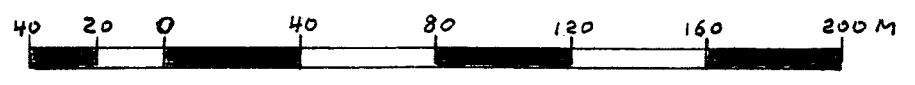
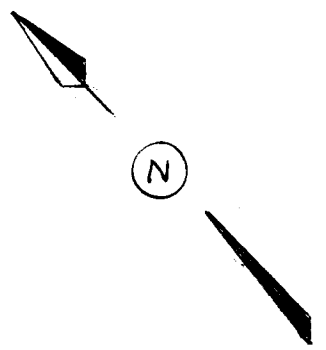
## PROCEDURE

The data was first digitized by an overlay grid. This was then entered into a computer program which created an X-Y-Z file. This file was converted into an ASCII text file which is used by Turbocon.

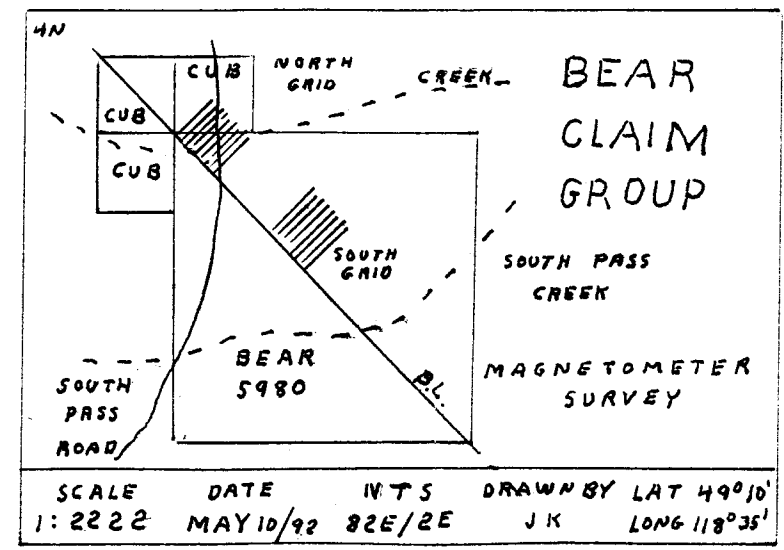
FIG. 4

04+00E											57025	57174	57350	57023	57065	57167	57091	57075	56958
03+80E											56977	57328	57553	57220	56947	57111	57090	57453	57114
03+60E											56942	57208	57310	57021	57052	57049	56919	57625	57167
03+40E											57243	57123	57190	57114	57052	57126	56796	57010	57160
03+20E											58000	57209	57018	57117	57032	56826	56974	56928	57116
03+00E	57313	57115	57143	57162	57040	56944	56653	57233	57011		56852	57216	56970	57122	57079	56126	57198	57012	57190
02+80E	57254	56936	57112	57271	56934	56896	56792	57057	57120		56897	57112	57080	57665	57100	57258	57312	55200	57292
02+60E	56853	56893	57101	57160	56989	56903	56818	57077	57079		56972	56950	57250	57041	56025	57283	57042	57177	57282
02+40E	57145	56719	57053	57212	56755	56902	56728	57106	57081		56945	56977	57219	57148	56994	57186	57033	57204	57401
02+20E	57527	56825	57022	57035	56640	56716	56799	57048	56914		56896	57168	57319	57811	56887	57184	57049	57169	57307
02+00E	57175	57108	56986	56841	56715	56639	56866	56945	57070		56890	57163	57301	57119	57300	57430	57050	57006	57146
01+80E	56995	57103	57092	57071	56866	56674	56894	56009	57143		57023	57290	57258	57069	56995	57109	57012	57032	57079
01+60E	56816	57054	56992	57080	56845	56730	56818	57297	57136		57367	56925	57084	56982	57004	57008	57075	57529	57135
01+40E	56897	57010	57053	57013	56895	56779	56904	57400	56963		56954	56955	57508	56916	56888	56953	56931	57221	57115
01+20E	57014	57012	57088	57210	56855 56300	56708	56950	56950	57125		57044	56977	56892	57032	56939	56962	56826	57060	57155
01+00E	56791	57010	57112	57100	57166	56665	56841	56745	57231		57018	57008	57120	57028	56978	56836	58502	57159	56863
00+80E	56887	57086	56990	56900	56957	56729	56886	56830	57018		56864	57179	57326	56990	56926	57109	57117	57316	57028
00+60E	56919	56924	55704	56909	56775	56736	56856	56910	56925		56719	57022	57160	56930	57154	57250	56940	56954	57106
00+40E	56798	56804	57041	56889	56840	56785	56883	56991	57029		56852	57086	57546	56859	56941	56963	57321	56806	57225
00+20E	56639	56859	57165	56828	56818	56797	56758	57007	56946		56927	57049	57126	57042	56789	56953	57284	56779	57261
(4N) 00+00	56849	57015	57052	56867	56797	56870	56816	56890	56891		56966	57017	57152	57100	57122	57028	56988	57046	56992

04+80N 04+40N 04+00N 03+60N 03+20N 02+80N 02+40N 02+00N 01+60N 04+40S 04+80S 05+20S 05+60S 06+00S 06+40S 06+80S 07+20S 07+60S



40 M Δ BASELINE  
20 M Δ GRID LINE



SCALE DATE IVTS DRAWN BY LAT 49°10'  
1:2222 MAY10/92 82E/2E JK LONG 118°35'



OBSERVATIONS  
BEAR CLAIM GROUP

The data is found on Fig. 4. Since two blocks are indicated these have been treated as 1. Bear North Claim, and 2. Bear South Claim.

Observations on the Bear North Claim (Fig. 5)

The 200 gamma contour map indicates three anomalies, all magnetic lows. It is easier to interpret them from the 500 gamma contour map.

1. Line 04+00N at 00+60E. A magnetic low occurs between two highs. This may be a pluton junction area.
2. Line 03+20N, 01+00E. This low is on the flank of a magnetic high and may represent a fault.
3. Line 02+00N, 01+80E. A similar situation to the above.

Observation on the Bear South Claim (Fig. 6)

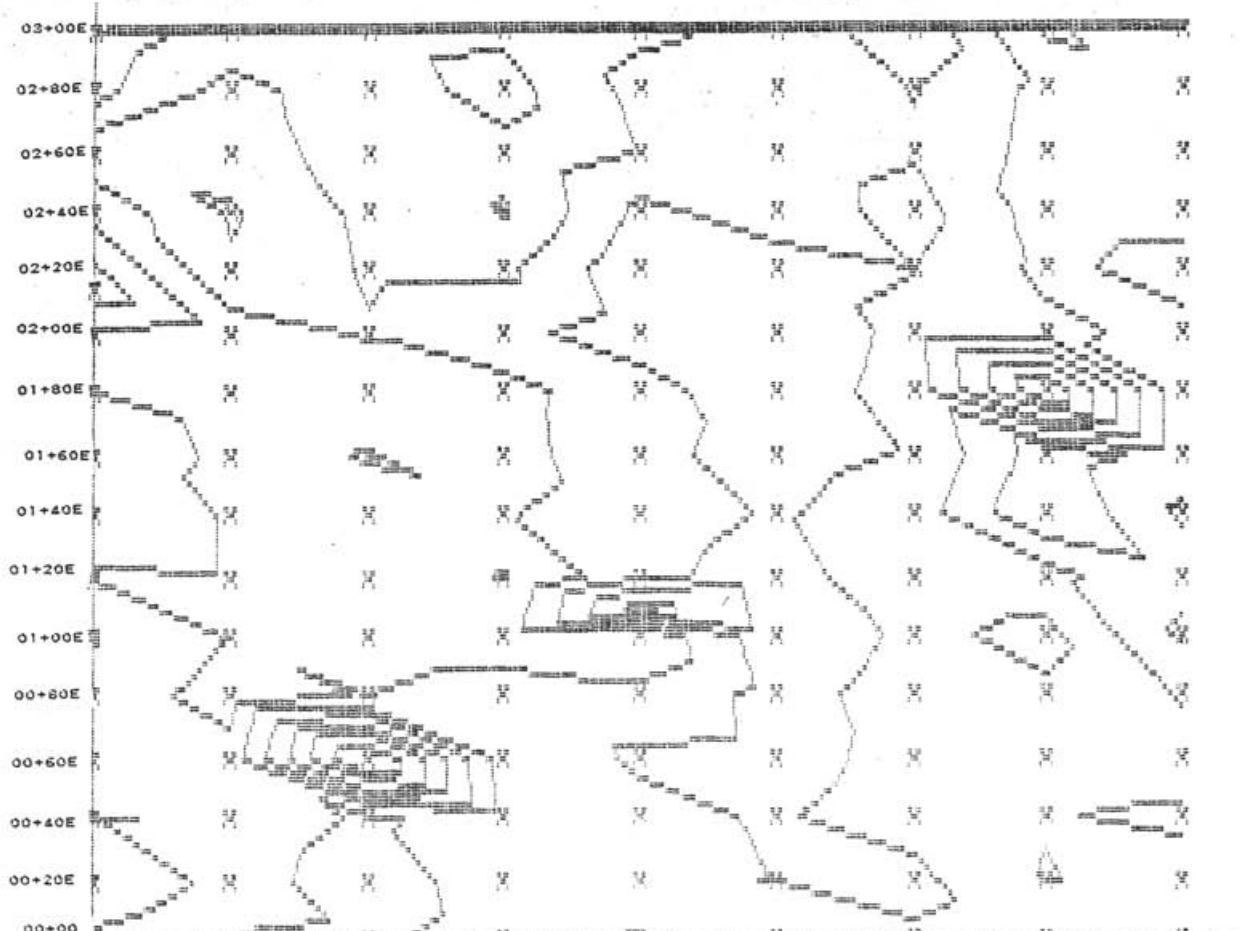
The data used is from Fig. 4. The 200 gamma contour map (Fig. 7) indicates two magnetic low, and two magnetic high anomalies. The regional trend is north fifteen to twenty degrees west.

1. A magnetic high of 58,000 gammas exists at line 06+80S, 01+00E which seems to be half-surrounded by a magnetic low. Is this an alteration zone?
2. Another magnetic high exists on the edge of the map at line 04+40S, 03+20E. Its strength is well indicated on Fig. 7.
3. Parallel magnetic lows (shear zones?) exist between lines 05+60S, 02+80E and 06+00S, 02+60E, and again from lines 06+00S, 03+20E to line 07+60S, 02+80E.

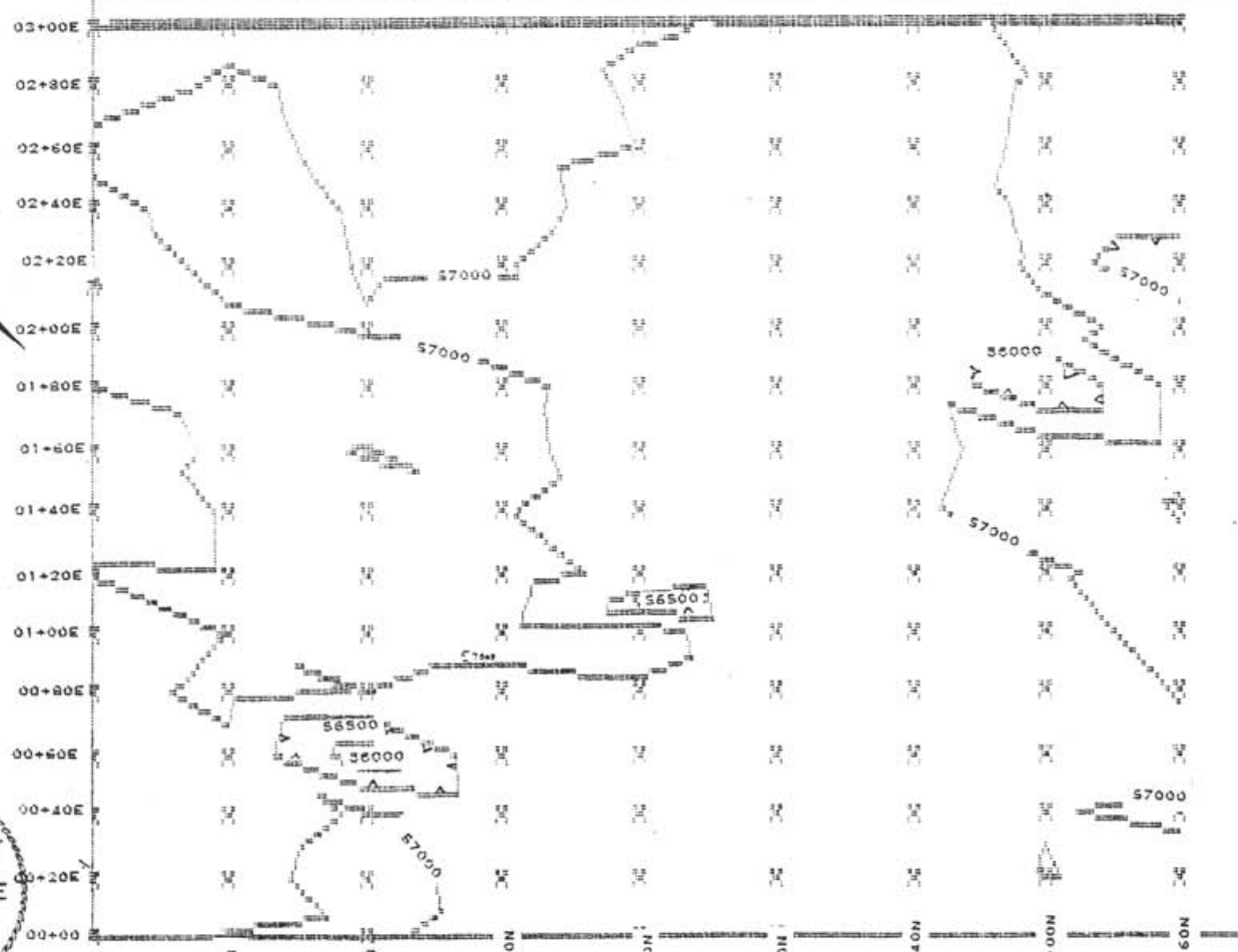
# BEAR NORTH CLAIM

## FIG. 5

Contour  
Interval  
= 200.0



Contour  
Interval  
= 500.0

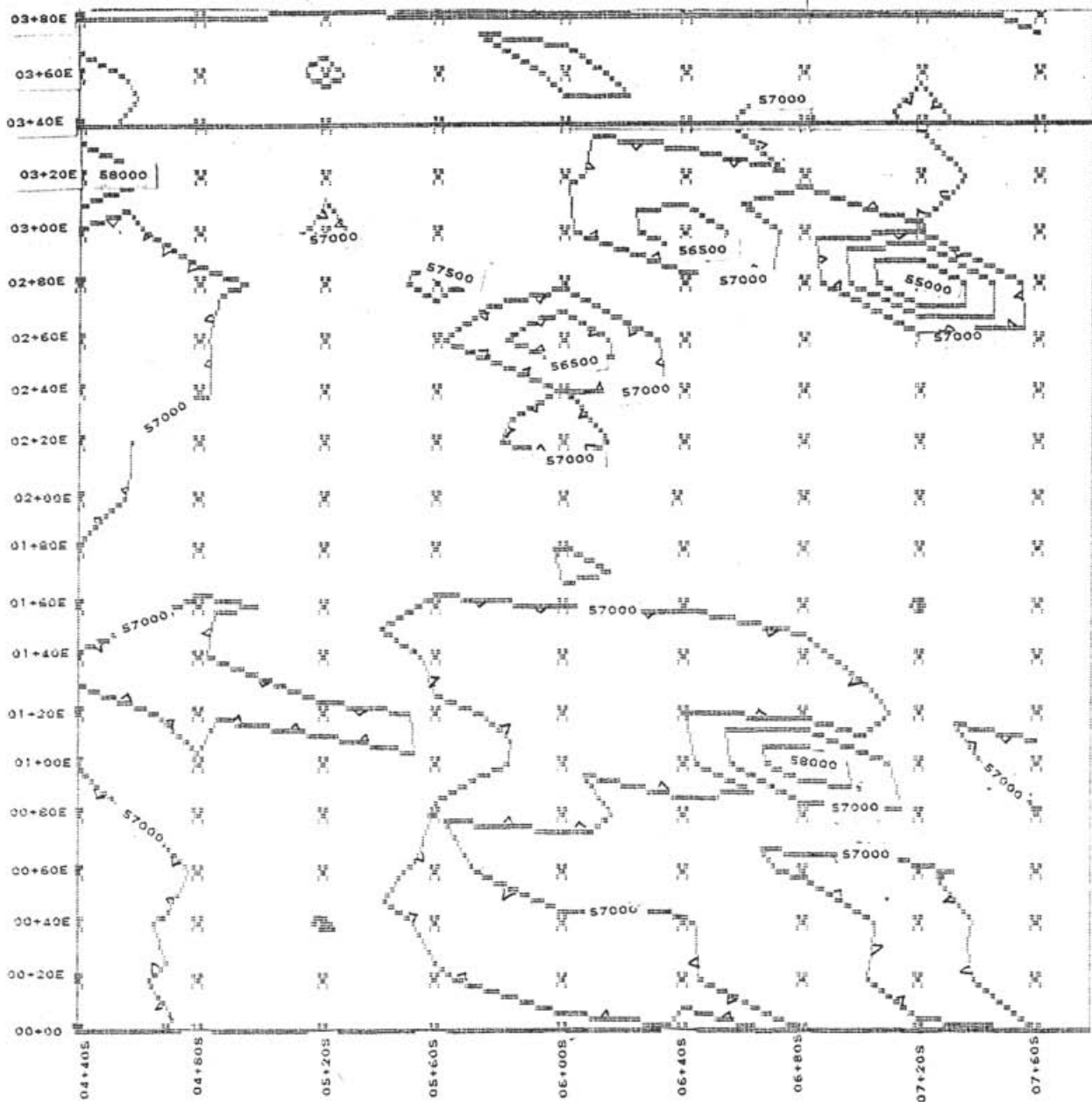


SCALE  
1 : 2222

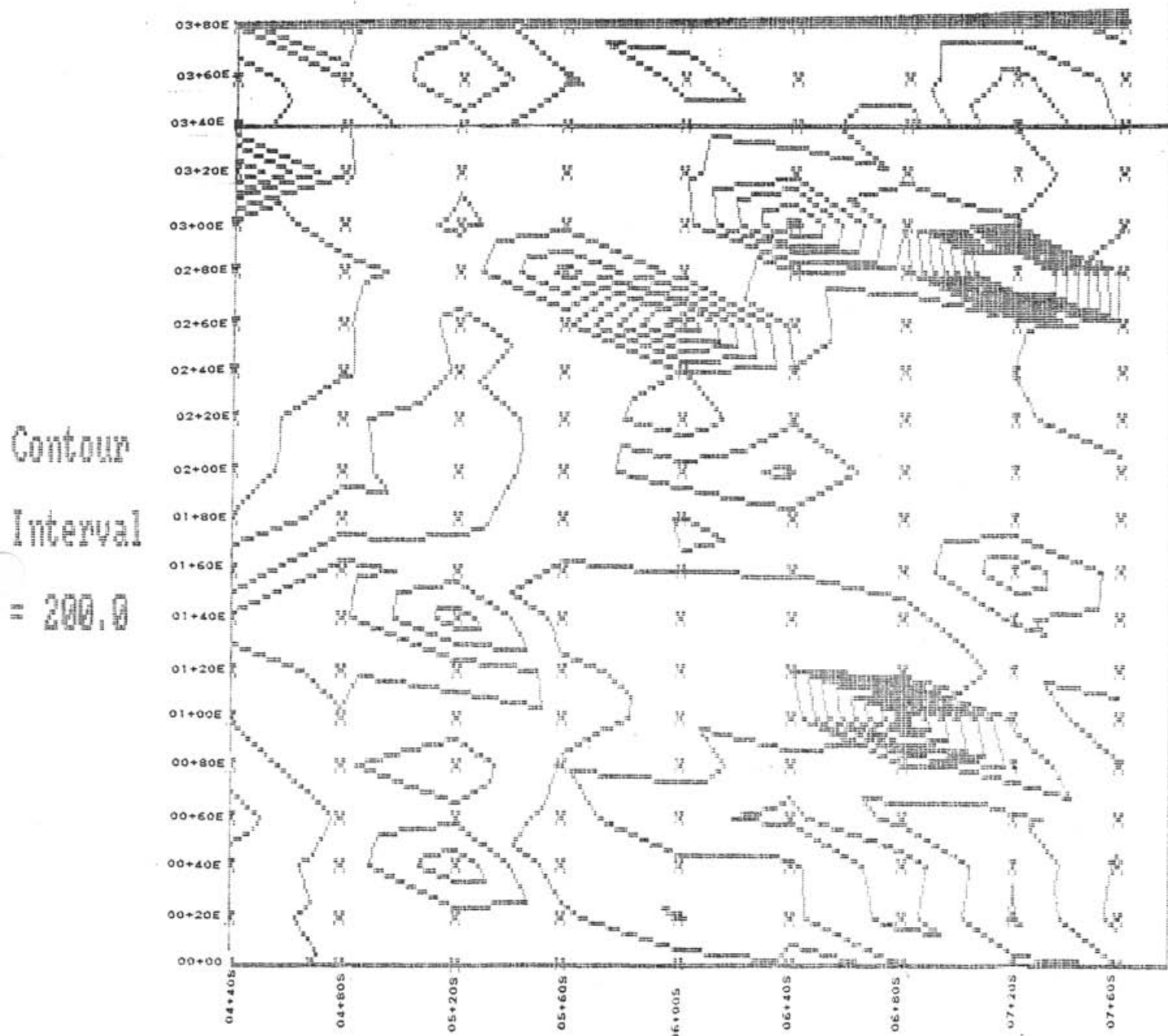


# BEAR SOUTH CLAIM

Contour  
Interval  
= 500.0



# BEAR SOUTH CLAIM



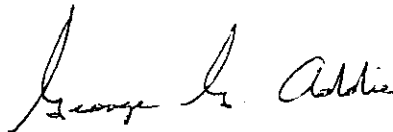
SCALE 1 : 2222

1 Cm.



STATEMENT OF QUALIFICATIONS  
and fact.

1. I am a Professional Engineer of the Province of British Columbia residing at 604 3rd Street, Nelson, B.C., V1L 2P9.
2. That I am a Fellow in good standing of the Geological Association of Canada.
3. That I have not been on any of the properties mentioned in this report.



Dated at Nelson, British Columbia on the  
14th day of May, 1992.

CERTIFICATE

JOHN KEMP

BOX 866

GRAND FORKS, B.C. VOH 1H0

Basic Prospecting Course  
B.C. Ministry of Mines, 1970

Prospecting Course  
B.C. Chamber of Mines, 1989

Advanced Prospecting Course, 1991  
B.C. Ministry of Mines &  
Malaspina College

Petrology for Prospectors  
Ministry of Energy, Mines & Petroleum Resources  
1992



DON HAIRSINE

BOX 1239

GRAND FORKS, B.C. VOH 1H0

Basic Prospecting Course, 1956

Advanced Prospecting Course, 1984  
B.C. Ministry of Mines &  
Malaspina College

Petrology for Prospectors  
Ministry of Energy, Mines & Petroleum Resources  
1992

### STATEMENT OF EXPENSES

The field work of establishing the grids of 7.7 Km of line, prospecting and Geophysical Survey was carried out on the Bear Claim Group, Greenwood Mining Division, B.C. on May 1, 2, 3, 4, 5, and 9th 1992 to the value of the following.

Field work 2 men 5 days	
10 Man days at \$200.00 per day	\$2,000.00
Vehicle rental 4X4 at \$65.00 per day	325.00
Field supplies (ribbon, topo line)	40.00
Magnetometer rental at \$125.00 per week	125.00
Addie Consultants Contouring and Interpretation	125.00
Data Compilation	150.00
Total	<u>\$2,765.00</u>

Eighteen assays were processed compliments of Tech Exploration and Crown Resources.

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

22,348

BOB # 303435








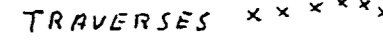


BOB 1

BEAR # 5900

EHOLT # 3 4867

EHOLT # 4  
4905

LEGEND

- STREAM 
- SWAMP 
- ROAD 
- GRID 
- TRENCHES 
- SHAFT 
- ADIT 
- TRAVERSES 
- FAULT 
- ASSAYS 

ACCESS

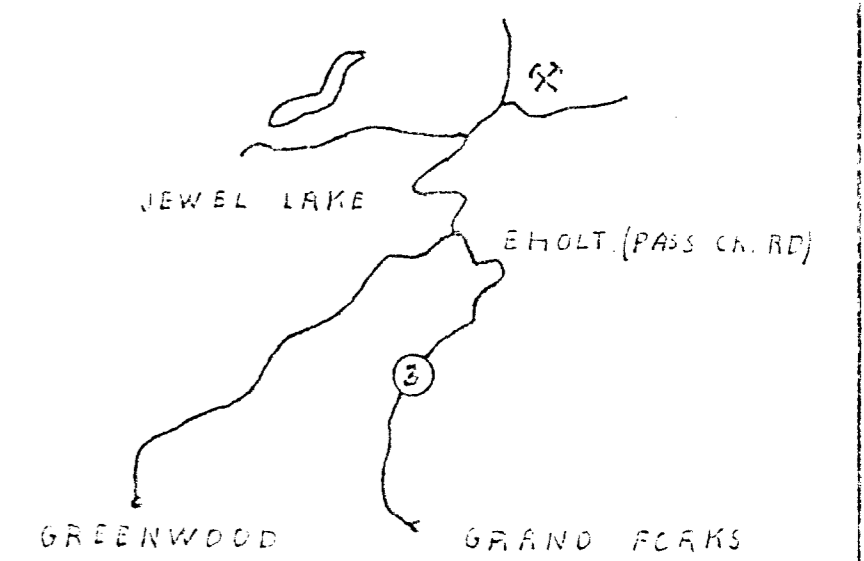


FIGURE 8

**BEAR CLAIM GROUP**  
GREENWOOD MINING DIV  
MAGNETOMETER SURVEY  
PROSPECTING REPORT

DATE MAY 10/92 INTS 82E/2E LAT 49°10' LONG 118°35' DRAWN BY J.N.

