

LOG NO:	122	RD.
ACTION:		
FILE NO:		

**GEOPHYSICAL SURVEY REPORT**

**ON THE**

**BRANDY 1-4,6,A,B and VAN 23,29-37,V CLAIMS  
MINING LEASE 3**

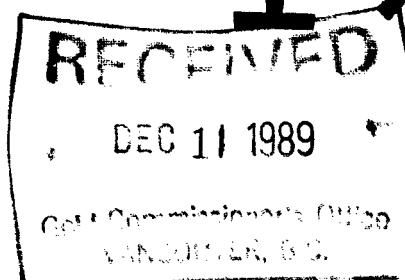
**VANCOUVER MINING DIVISION**

Latitude 50° 02'      Longitude 123° 05'

**NTS 92-J GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

Owner: Silver Tusk Mines Ltd.  
Operator: Placer Dome Inc.

**19,433**



R. W. Cannon, P. Eng.

October, 1989

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## SUMMARY

The Brandywine property, south of Whistler, B. C., covers three main mineral showings (Tedi Pit, Main Zone and Silver Tunnel) which consist of zones of quartz-carbonate vein and shear hosted stringer sulphide mineralization. The Tedi Pit and Silver Tunnel showings appear to be associated with late felsic dykes. In 1988, Placer Dome Inc. constructed 45 line kilometres of grid and conducted a soil sampling programme.

During the summer of 1989, Placer Dome Inc. added approximately 30 kilometres of line to the 1988 grid. The additional lines were soil sampled and the entire grid was covered by ground geophysics which consisted of a VLF-EM survey and a magnetometer survey.

## INTRODUCTION

The following report describes the VLF-EM and magnetometer surveys conducted by Placer Dome Inc. personnel on the Brandywine project. These surveys took place during the period of May 16th through June 7th, 1989. The above surveys were conducted along 74.22 line kilometres of grid.

## LOCATION AND ACCESS

The Brandywine property is on the west side of the Cheakamus River approximately 100 km due north of the City of Vancouver, British Columbia. The claims straddle Brandywine Creek northwest of the north end of Daisy Lake.

The property is readily accessible by road from Vancouver. Portions of the property can be reached by means of a variety of both forestry and mining access roads. The roads connect to Highway 99 (from Vancouver to Pemberton) in the valley of the Cheakamus River.

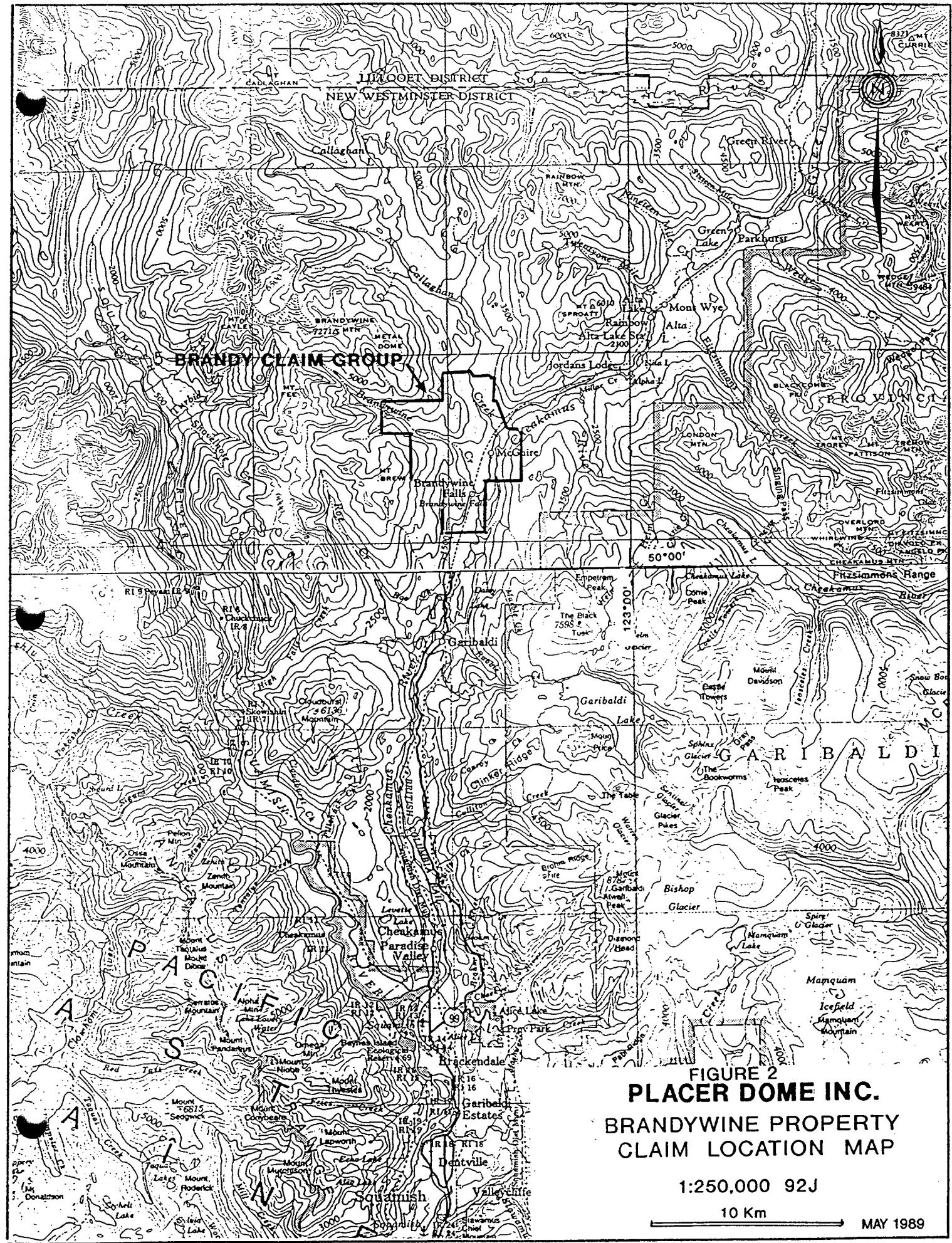
The B. C. Rail Ltd. line runs through the valley on the east side of the property.

## PROPERTY STATUS

The Brandywine property is owned by Silver Tusk Mines Ltd. (1257-409 Granville Street, Vancouver, B.C., V6C 1T2) and is under option to Placer Dome Inc. (1600-1055 Dunsmuir Street, Vancouver, B.C., V7X 1P1). The claim status is as follows:

NAME	UNITS	RECORD NO.	EXPIRY DATE
Brandy 1	18	735	August 11, 1990
Brandy 2	18	736	August 11, 1992
Brandy 3	15	737	August 11, 1990
Brandy 4	20	738	August 11, 1992
Brandy 6	15	740	August 11, 1990
Brandy A	20	1952	June 17, 1992
Brandy B	20	1953	June 17, 1993
Van 23	1	11791	June 2, 1992
Van 29	1	11797	June 2, 1992





**FIGURE 2**  
**PLACER DOME INC.**  
**BRANDYWINE PROPERTY**  
**CLAIM LOCATION MAP**

1:250,000 92J

10 Km

MAY 1989

NAME	UNITS	RECORD NO.	EXPIRY DATE
Van 30	1	11798	June 2, 1992
Van 31	1	11799	June 2, 1992
Van 32	1	11800	June 2, 1992
Van 33	1	11801	June 2, 1992
Van 34	1	11802	June 2, 1992
Van 35	1	11803	June 2, 1992
Van 36	1	11804	June 2, 1992
Van 37	1	11805	June 2, 1992
Van V	1	11657	April 19, 1992
Mining Lease 3	6	Lot #3408	Sept. 2, 1990

## PROPERTY HISTORY

Most of the known occurrences on the Brandywine property were originally located and explored in the early 1900's. Several of the showings were described in the Minister of Mines Report for 1936.

Van Silver Explorations Ltd. conducted intermittent exploration programmes on the ground between the mid 1960's and 1970, when the ground was optioned to Noranda Mines Ltd.

Noranda put in a grid and conducted a variety of geological, geophysical and diamond drill programmes in 1970 and 1971. The property was subsequently returned to Van Silver Explorations Ltd. who then merged with Tedi Resources in 1975 to form Van Silver Mines Ltd.

Van Silver Mines constructed a 150 tons/day mill in 1977 and processed a small amount of ore from the Silver Tunnel and Main Zone showings. Cominco optioned the property later in the year and conducted a limited diamond drill programme designed to test a number of previously established exploration targets.

Van Silver was restructured into Silver Tusk Mines Ltd. in 1970 and the Brandywine property was optioned to Brett Holdings Ltd.. The company subsequently transferred it's interest to Brandy Resources Inc. in 1980. Brandy Resources conducted underground development work below the old Silver Tunnel adit, ran drill programmes around the Silver Tunnel and Tedi Pit showings. They also ran various soil geochemical surveys in 1980, 1981 and 1983 as well as including the property in an airborne geophysical survey.

## REGIONAL GEOLOGY

The geologic assemblage found on the property consists of a mixed package of igneous and metamorphic rocks which can be divided into three main components as follows:

- (1) Slivers of metavolcanic and related metasedimentary rock which appear to be fragments of the Callaghan Roof Pendant. These are Lower Cretaceous in age and belong to the Gambier Group.
- (2) Deformed and locally strongly sheared intrusions of medium to coarse grained plutonic rock which are assigned to the Coast Plutonic Complex.

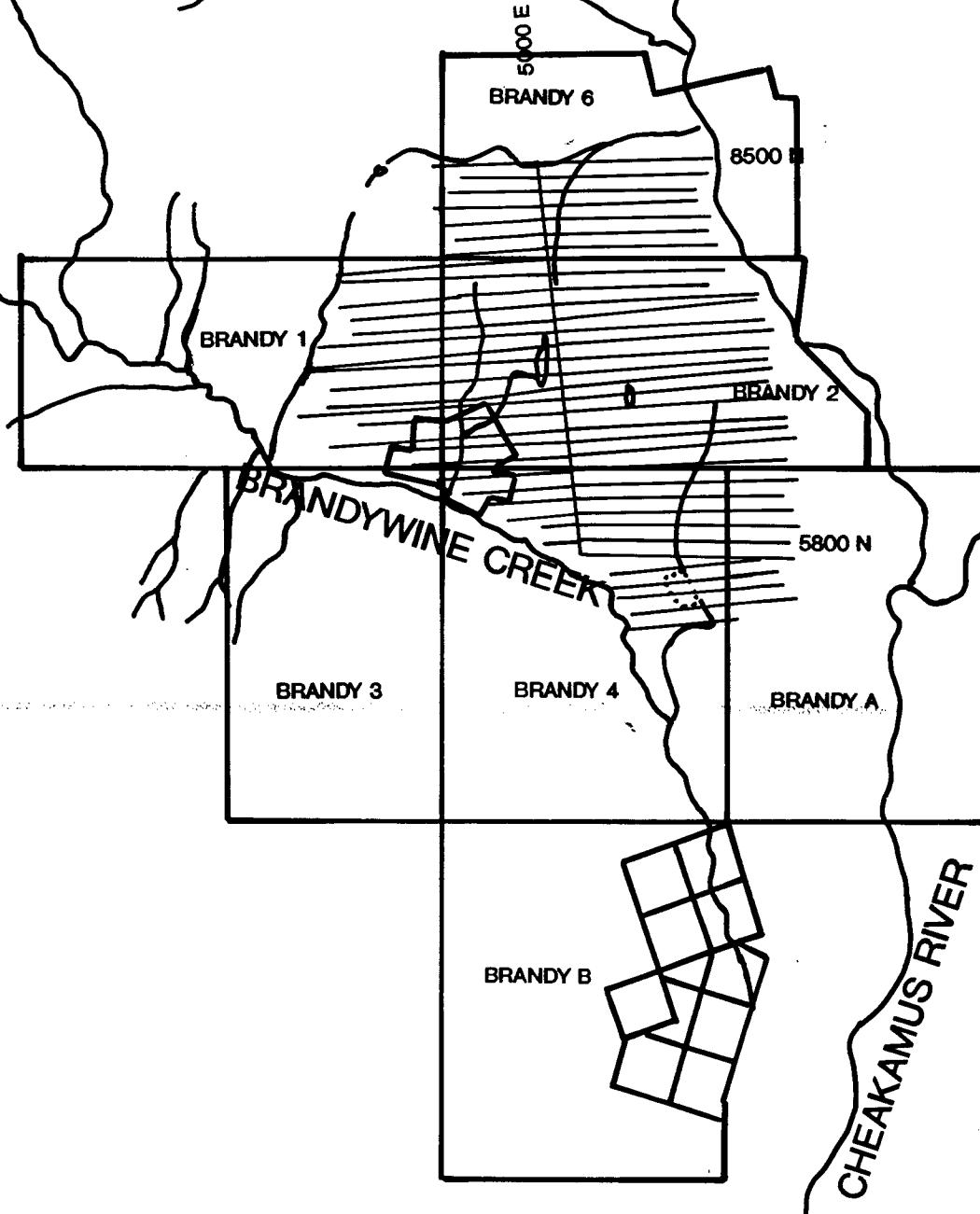


FIGURE 3

PLACER DOME INC.  
BRANDYWINE PROPERTY  
CLAIM AND GRID MAP  
1:50000 92J/3E

- (3) Relatively undeformed felsic and locally mafic dykes which appear to follow major shears in the underlying rocks. The dykes are probably Tertiary to Quaternary in age and presumably related to a volcanic centre located near Daisy Lake.

## GEOPHYSICAL SURVEYS

VLF-EM and Magnetometer surveys were conducted along 74.22 km of line. The VLF survey was conducted using the Seattle, Washington transmitting station NLK (24.8 kHz) with readings being taken at 20 m stations. Readings were taken facing approximately 070° Az along east-west lines.

Magnetometer readings were taken at 10 m intervals and corrections for drift and diurnal changes were made by use of a base station recording magnetometer.

## INSTRUMENTATION AND PROCEDURES

The magnetometer survey was conducted using two Geometrics G-856A portable proton magnetometers (memory-mags). One was used in the field mode while the other was used in a base station mode. The internal clocks were synchronized before commencement of the survey and subsequent daily readings were dumped out onto a Zenith microcomputer. The data from the two magnetometers was merged and corrected for diurnal drift from an established base station value. The corrected results were plotted as field profiles and also stored for eventual transfer to a Sun Microsystems work station for final plotting.

The VLF-EM survey employed a Geonics EM-16 which used the Seattle transmitting station. VLF readings were also entered onto the Zenith portable computer and plots were made of the In-phase, Quadrature and Fraser Filter data. The stored data was transferred to a Sun Microsystems work station for final plotting.

## SURVEY RESULTS

The magnetometer survey results were plotted as plan maps of stacked profiles and contoured data at scales of 1:5000 (see plates in folder at back of report).

The VLF-EM survey results were plotted as stacked In-phase, Quadrature and Fraser Filter profiles on a plan map at a scale of 1:5000. Contoured Fraser Filter data has also been presented as a plan map. The Fraser Filter data was calculated as per the method put forth by D.C. Fraser (1969, Contouring of VLF-EM data: Geophysics, v.34,P.958-967). See plates in the folder at the back of report.

## DISCUSSION OF RESULTS

The VLF-EM survey detected numerous conductors which have a predominant NNW to N strikes. Offsets occur along E-W and ENE breaks as shown on the accompanying plan maps. Several of these north striking conductive zones coincide with shear zones mapped by A. Sutherland-Brown. Coincident magnetic lows occur within a few of these conductive zones and are probably due to a destruction of magnetite by hydrothermal fluids introduced along fault zones.

The magnetic survey confirmed the presence of magnetite rich basalt flows along the south-east and east portions of the grid. Mapped Unit 3 (a Hybrid Diorite) is magnetic, especially at its contact with Unit 10 (Aplitic Granite). Unit 10 is ringed by a semi-circular magnetic low to the west, south and east. This unit is centred at 490,500 E 5,546,100 N. Gold in soil geochemical anomalies occur south of this intrusive unit. A magnetic high trends south-westerly from this low and probably represents another small intrusive. Units 5 and 6 (Hornblende Quartz Diorite and Porphyritic Diorite respectively) which cover the south-east portion of the grid, just north and west of the basalt flows, are magnetically flat. Several breaks in the magnetic trends can be seen on the contoured plan map which coincide with some of the VLF conductors.

## CONCLUSIONS AND RECOMMENDATIONS

It is concluded that the VLF-EM and magnetic surveys proved useful as an aid to the geologic interpretation. The VLF-EM survey showed that several of the mapped shears and faults actually consist of a series of offset VLF conductors within a broad zone and are thus not distinct faults. Several of the mapped rock units are magnetic and thus can be traced through areas of cover by use of the profiled and contoured magnetic data.

It is recommended that the area of magnetic lows surrounding the Aplitic Granite Unit should be checked with an Induced Polarization and Resistivity survey. A detail soil geochemical survey should also be conducted in the region of this low and coincident VLF conductors which occur in the vicinity of this intrusive. These surveys will hopefully detect the source of the gold geochemical anomaly and outline the best drill targets.

*R.W. Cannon, P. Eng.*

R.W. Cannon, P. Eng.

## STATEMENT OF QUALIFICATIONS

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

1. I am a graduate of the University of British Columbia where I received a B. A. Sc. in Geological Engineering (Geophysics Option) in May, 1966.
2. I am a member of the Association of Professional Engineers of British Columbia and have been so since 1968. Registration No. 6742.
3. I am a member of the Canadian Institute of Mining and Metallurgy, Society of Exploration Geophysicists, and the B. C. Geophysical Society.
4. I have practised my profession since 1966.

Respectfully Submitted,

*R. W. Cannon, P. Eng.*  
R. W. Cannon, P. Eng.

**STATEMENT OF EXPENDITURES FOR GEOPHYSICS  
BRANDYWINE PROJECT**

May 16 to June 7, 1989 inclusive 21 Days

**1) LABOUR (Salaries and Benefits)**

K. Everard - Geophysicist 21 days @ \$225/day	\$4725.00
H. Letient - Geophysicist 21 days @ \$225/day	\$4725.00

**2) CAMP COSTS**

42 person days @ \$60/day	\$2520.00
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**3) TRANSPORTATION**

4X4 Truck lease 3/4 X \$800/month	\$ 560.00
Fuel and maintenance 21 days @ \$10/day	\$ 210.00

**4) EQUIPMENT CHARGES**

2 G-856 Magnetometers @ \$400/week X 3	\$1200.00
1 Zenith laptop computer @ \$100/week X 3	\$ 300.00
1 Geonics EM-16 @ \$200/week X 3	\$ 600.00

**5) REPORT PREPARATION**

R. Cannon 6 days @ \$410/day	\$2460.00
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<b>TOTAL</b>	<b>\$17300.00</b>
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## **APPENDIX I**

**IN-PHASE DATA  
QUADRATURE DATA  
MAGNETOMETER DATA**

\$\$LINE\$SIP  
Brandywine VLF-IP Data

35	5320	5200	6000	5200*5200 N										
-10	-9	-9	-6	-3	-1	0	0	0	0	1	-1	-2	-3	-2
-1	0	-1	0	0	3	4	4	5	5	4	0	-2	-1	-2
-2	-3	-1	3	3										
59	5340	5300	6500	5300*5300 N										
-10	-5	-1	1	0	0	0	0	4	-1	0	-1	-2	-3	-5
-4	0	3	5	3	5	3	3	10	-6	-1	-1	1	-2	-5
0	-1	4	6	9	5	5	-6	-5	1	0	0	0	0	-1
-1	-2	0	0	1	-1	1	1	2	2	6	6	9	17	
60	5220	5400	6400	5400*5400 N										
-8	-9	-10	-9	-6	-3	-1	1	4	4	5	4	5	5	7
4	2	4	4	3	4	5	5	7	9	6	10	13	8	0
-13	-13	-11	-8	-5	-1	5	5	9	11	11	6	-1	-4	-2
-1	6	6	5	-1	3	3	1	2	2	3	2	0	-2	1
61	5200	5500	6400	5500*5500 N										
-7	-2	-4	-5	-9	-4	-3	-3	-1	-1	2	9	7	9	11
9	7	6	5	2	1	2	2	4	5	5	7	4	0	-5
-6	-5	-9	-2	-1	0	9	13	14	17	12	6	9	4	-6
-4	-9	4	3	5	1	3	1	-3	-6	0	-1	0	-2	-2
-4														
61	5200	5600	6400	5600*5600 N										
-18	-14	-15	-13	-12	-5	-1	-2	-2	7	7	11	13	8	3
-1	0	1	2	1	1	-3	0	3	5	12	6	13	5	0
-6	-1	0	7	6	20	20	18	13	11	8	13	15	11	1
0	0	0	0	1	-8	-8	-9	-10	-5	-5	-3	-3	-2	-5
-1														
76	5000	5700	6500	5700*5700 N										
-9	-7	-9	-8	-14	-14	-18	-21	-25	-16	-13	-7	-6	-1	5
7	6	14	22	13	5	14	7	5	6	3	2	8	5	7
5	10	3	5	7	9	15	8	2	-4	-3	9	7	8	16
22	18	14	11	13	14	20	18	6	6	-1	-1	4	-3	-10
-9	-6	-9	-8	-7	-6	-4	-3	-3	4	6	10	8	7	3
3														
88	4760	5800	6500	5800*5800 N										
-5	-1	4	6	6	1	-5	-5	-11	-9	-4	4	2	-1	-4
-5	-3	0	0	-4	-5	-3	0	1	0	10	11	11	13	17
18	18	15	9	10	10	13	10	3	5	2	3	4	-6	-3
1	2	7	11	3	3	6	5	17	12	13	17	16	8	14
10	11	11	18	3	1	4	-3	-5	-12	-10	-12	-13	-20	-12
-11	-12	-16	-10	-8	-1	-1	4	-3	4	2	-1	-2		
90	4720	5900	6500	5900*5900 N										
8	1	10	15	18	20	22	26	14	4	0	0	0	0	-5
0	2	4	2	8	10	6	6	-2	3	15	9	25	22	19
27	20	22	20	13	9	12	2	-5	-9	-13	-9	-16	-20	-14
2	7	12	3	3	0	6	7	7	17	18	14	13	14	11
8	1	0	2	-5	-5	-8	-8	-11	-12	-14	-14	-14	-10	-8
-12	-13	-13	-9	7	12	-3	-9	-12	-13	-11	-10	-9	-9	-9
97	4580	6000	6500	6000*6000 N										
8	5	2	2	2	6	10	14	13	17	15	14	13	13	12
16	14	2	-9	-8	2	2	1	-2	1	7	7	9	8	7
10	16	17	15	15	17	18	19	20	21	22	17	7	4	1
0	-4	-12	-15	-13	-18	-22	-22	-22	-16	-7	1	12	10	2
-6	-2	5	10	13	15	14	14	13	11	7	7	8	5	1
0	1	0	-2	-3	-7	-9	-10	-10	-10	-7	-8	-8	-14	-16
-15	-13	-4	6	12	1	-10								
105	4400	6100	6480	6100*6100 N										
1	2	10	10	15	16	19	18	17	14	18	20	15	13	10
12	17	21	18	18	15	14	12	15	18	13	3	-2	5	2
2	7	8	10	14	12	15	13	11	12	13	13	17	19	17
16	18	17	16	11	5	4	-10	-11	-14	-18	-21	-21	-23	-23
-22	-19	-16	-8	1	3	1	1	-1	5	5	13	12	11	14
17	15	5	6	6	6	1	0	1	-1	-4	-2	-1	-11	-9

-9	-10	-7	-13	-19	-18	-17	-17	-17	-15	-11	-7	-4	-1	-7	-17
117	4180	6200	6500	6200*6200 N											
-23	-5	-3	2	17	16	11	9	11	12	13	12	12	15	19	
21	23	25	24	20	18	18	17	12	8	6	4	10	10	6	
12	16	16	17	17	16	12	6	7	10	8	7	12	7	8	
12	15	13	12	11	13	15	18	22	22	20	18	12	7	7	
2	-7	-11	-14	-21	-21	-22	-24	-23	-25	-23	-18	-13	-6	-2	
-5	-9	-10	3	8	11	17	17	-6	4	4	0	-1	0	0	
0	-4	-6	-9	-8	-9	-10	-10	-12	-14	-19	-18	-17	-15	-13	
-8	-7	-5	-5	-19	-27	-27	-24	-16	-11	-3	-9	-14	-14	-13	
116	4200	6300	6500	6300*6300 N											
8	4	-2	-6	-6	-8	-8	-12	-5	-6	0	6	7	8	8	
13	14	13	14	17	19	22	23	21	21	18	4	5	10	15	
14	18	14	17	20	18	17	18	17	14	14	18	17	12	17	
16	20	19	17	18	18	19	19	18	12	5	0	-8	-19	-19	
-34	-30	-38	-32	-42	-39	-32	-29	-25	-21	-16	-18	-14	-13	-19	
-19	-19999999999999999	-19999999999999999	18	12	19	14	2	7	5	7	6	11			
1	0	-9	-10	-12	-9	-11	-9	-10	-10	-16	-16	-20	-18	-16	
-13	-9	-8	-4	-2	-11	-25	-30	-30	-19	-14					
130	3920	6400	6500	6400*6400 N											
2	-2	-2	2	3	3	-1	-1	-1	3	4	6	6	2	5	
2	-1	1	4	8	12	12	14	17	17	20	18	19	20	18	
17	13	7	8	8	8	13	14	13	14	15	17	23	22	20	
20	20	18	17	17	20	21	23	19	20	18	16	15	12	11	
14	15	14	10	12	5	8	4	3	-7	-3	-6	-10	-19	-35	
-34	-31	-32	-30	-29	-33	-40	-30	-29	-31	-23	-18	-15	-11	-5	
-2	-6	-3	6	6	-3	6	5	8	12	6	10	4	3	1	
-3	-5	-13	-14	-12	-16	-15	-20	-13	-16	-11	-10	-14	-24	-14	
-15	-11	-8	-14	-28	-28	-21	-21	-18	-10						
136	3800	6500	6500	6500*6500 N											
-2	2	-7	-9	-9	-7	-9	-10	-8	-10	-5	3	5	6	6	
10	9	12	11	13	17	19	15	19	14	5	10	11	15	21	
24	26	24	18	16	11	10	-2	1	5	8	14	18	18	24	
28	26	27	30	31	22	19	19	18	18	16	20	19	19	17	
15	16	13	13	13	16	15	15	13	11	12	8	5	5	2	
2	-2	-3	-6	-7	-15	-21	-30	-26	-28	-27	-25	-24	-27	-28	
-32	-33	-27	-24	-21	-16	-15	-12	-9	-4	-7	-7	-6	-2	0	
1	0	4	12	16	14	8	-3	-6	-5	-5	-5	-3	-2	-6	
-13	-12	-13	-11	-9	-15	-13	-12	-10	-7	-8	-7	-10	-13	-30	
-21															
163	3260	6600	6500	6600*6600 N											
10	12	10	5	7	2	8	-1	-2	-2	-1	-2	-3	-2	2	
6	6	7	7	7	7	8	11	12	7	4	0	-1	-2	-2	
0	2	1	0	-5	-7	-7	-8	-5	-1	10	9	11	19	9	
10	12	11	17	18	22	22	22	22	17	9	13	8	19	25	
26	24	18	4	6	10	12	6	7	6	12	17	20	27	43	
32	38	28	24	22	18	17	19	18	18	18	17	16	17	10	
15	14	12	9	7	8	5	-2	-2	-3	-12	-17	-16	-10	-14	
-15	-16	-21	-25	-25	-28	-27	-25	-25	-25	-23	-27	-26	-30	-35	
-33	-34	-30	-27	-31	-23	-18	-15	-7	-6	-10	-9	-10	-12	-16	
-10	-6	-4	-1	5	8	4	2	-10	-11	-11	-8	-8	-8	-4	
-2	-10	-10	-14	-17	-16	-10	-12	-8	-8	-5	-13	-18			
149	3520	6700	6480	6700*6700 N											
5	5	6	16	16	13	13	12	11	8	4	3	-2	4	9	
6	7	6	-1	-4	2	4	10	13	13	11	11	13	17	12	
10	5	7	8	2	-3	1	7	7	11	11	8	2	-9	3	
13	13	17	13	6	-5	4	7	9	13	15	17	16	23	24	
26	2														

11	15	16	16	11	15	19	15	10	2	2	0	5	9	11
14	16	17	18	16	20	18	16	6	-4	-2	-5	-7	-6	
-1	3	6	12	14	13	12	14	17	18	20	22	12	0	-3
2	1	1	5	5	5	3	7	4	10	12	10	-4	10	13
17	20	22	19	21	23	16	15	14	6	14	15	14	18	22
22	23	17	8	6	9	10	12	10	13	11	13	14	11	8
8	5	-3	-14	-11	-16	-17	-21	-16	-16	-19	-25	-22	-20	
-15	-10	-39	-28	-23	-21	-20	-20	-18	-28	-38	-33	-36	-43	-31
-35	-25	-24	-25	-16	-15	-6	5	0	-17	-24	-18	-17	-14	-14
-11	-14	-4	-11	-9	-7	-5	-3	-3	-2	-1	0	1	1	
-5	-22	-17	-10	4	1	-3	-4	-4	-5	-6				
154	3440	6900	6500	6900	6900	*	6900	N						
6	14	14	20	22	22	20	16	16	16	14	12	20	16	9
2	-6	-8	-10	-5	5	7	10	14	16	14	15	14	18	15
18	15	6	1	-5	1	-6	-3	0	0	0	2	6	7	10
11	11	10	1	6	6	13	13	16	20	22	17	12	6	12
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78 4460 8000 6000 8000\*8000 N  
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83 4360 8300 6000 8300\*8300 N  
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101 4200 8500 6200 8500\*8500 N  
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Brandywine Quadrature Data											
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60	5220	5400	6400	5400*5400	N	8	0	1	2	-1	-24
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88	4760	5800	6500	5800*5800	N	12	14	12	4	2	-17
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90	4720	5900	6500	5900*5900	N	13	16	12	13	14	-17
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97	4580	6000	6500	6000*6000	N	14	17	16	18	14	-17
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105	4400	6100	6480	6100*6100	N	15	15	14	12	8	-17
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Brandywine Quadrature Data

Brandywine Quadrature Data											
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116	4200	6300	6500	6300*6300	N	14	14	16	16	14	14
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130	3920	6400	6500	6400*6400	N	19	14	15	16	13	9
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136	3800	6500	6500	6500*6500	N	10	11	10	12	13	14
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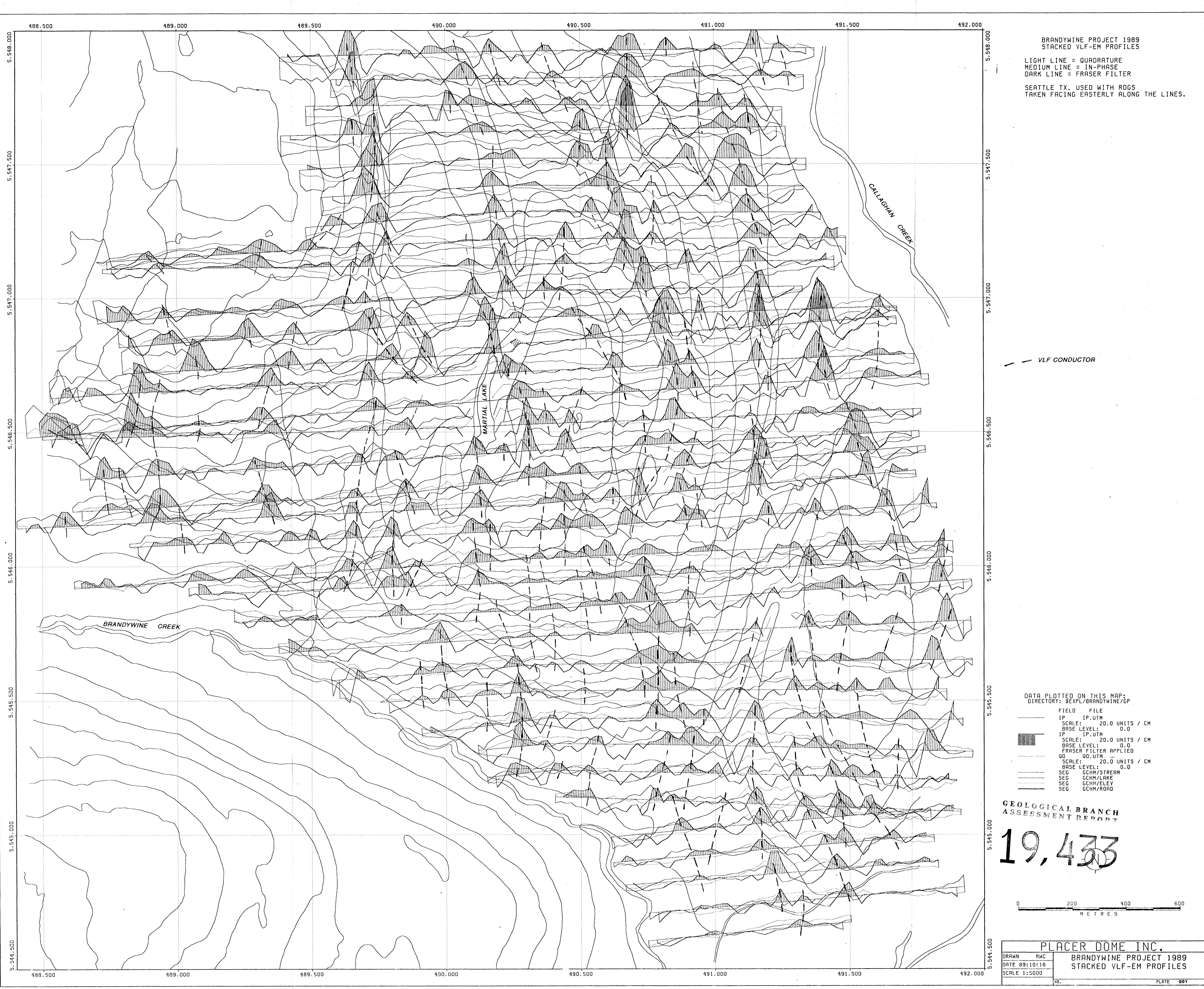
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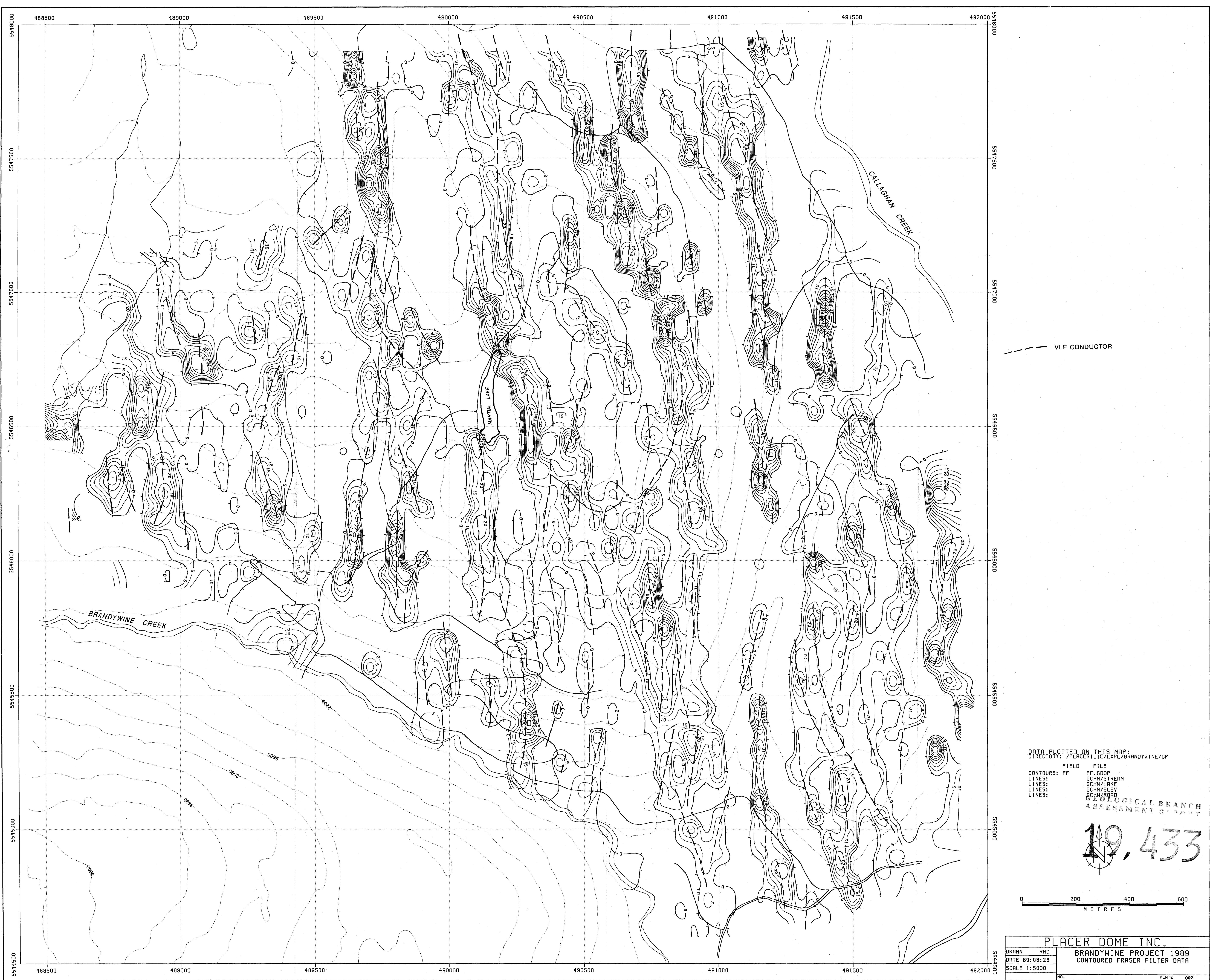
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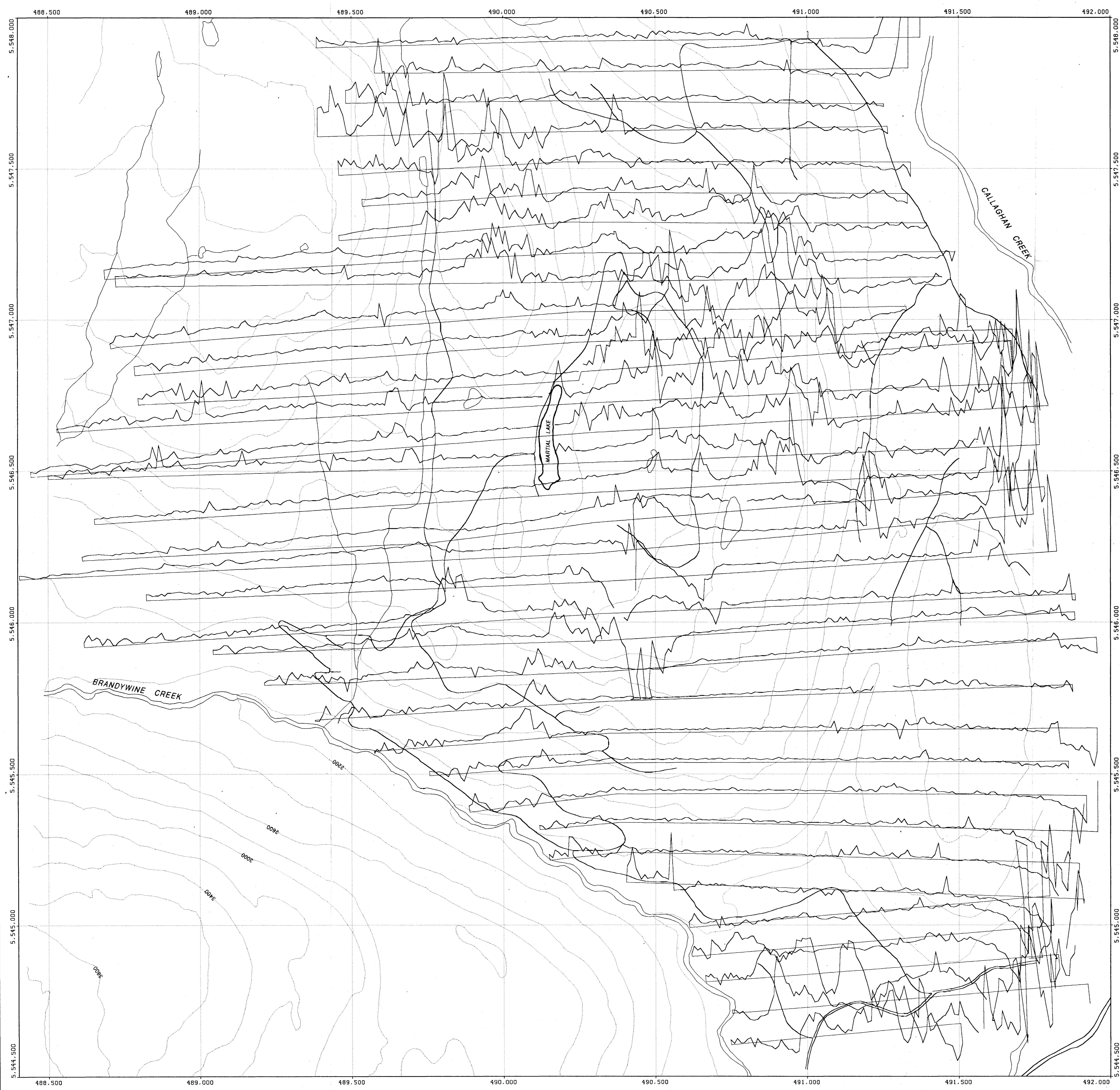
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STACKED MAGNETIC PROFILES  
UNITS = NANOTESLAS



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DATE 89-08-23	
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BRANDYWINE PROJECT 1989	
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NO.	
PLATE 003	

