Off Confidential: 92.03.26 rict Geologist, Victoria D1 ASSESSMENT REPORT 21193 MINING DIVISION: Nanaimo **PROPERTY:** Bacon 49 57 30 LONG 125 37 00 LOCATION: LAT 10 5537061 312314 UTM 092F13E NTS CLAIM(S): Bacon Sawiuk, M.J. OPERATOR(S): Gosse, R.R. AUTHOR(S): 1991, 18 Pages **REPORT YEAR:** COMMODITIES SEARCHED FOR: Iron, Gold, Copper, Cobalt Triassic-Jurassic, Limestone, Volcanics, Intrusives, Skarn, Magnetite **KEYWORDS:** Pyrite, Chalcopyrite, Cobalt WORK Geophysical DONE: 4.2 km MAGG Map(s) - 1; Scale(s) - 1:1000RELATED 16321 **REPORTS:** 092F 097,092F 256 MINFILE:

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TYPE OF WURK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)			O	WHICH CLAIMS		COST APPORTIONED
GEOLOGICAL (scale, area)							
Ground	 				,		
Photo							
GEOPHYSICAL (Ilne-kilometres)							
Ground	A	len.	1				1996 30
Magnetic	4.42	BAC	<u> </u>	<i>.</i> .	• • • • • • • • • • • • • • • • • • • •		1,996. 30
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Induced Polarization				· · · · · · · · ·		· • <i>• • • •</i> • · · · <i>•</i> •	· · · · · · · · · · · · · · ·
Rediometric	· • • • • • • • • • • • • • • • • • • •					• • • • • • • • • • • • •	
Seismic	· · · · · · · · · · · · · · · · · · ·			• • <i>• •</i> • • • •	• • • • • • • • • • • • • • • • • • • •	•••••	· · · · · · · · · · · · · ·
Other			<i>.</i>	• • • • <i>• • • •</i> •		· · · · • • • • • • · · • •	· · · · · · · · · · · · · · ·
Airborne	· · · · · · · · · · · · · · · · · · ·		<i></i>		•••••	•••••	· · · · · · · · · · · · · ·
GEOCHEMICAL (number of same	ples analysed for)						
Soil						<i></i>	
Silt					••••••••••••••••••••••••••••••••••••••		
Rock						<i>.</i>	· · · · · · · · · · · · · ·
Other					• • • • • • • • • • • • • • • • • • •		
DRILLING (total metres; number	of holes, size)						
Core	· · · · · · · · · · · · · · · · · · ·					• • • • • • • • • • • • • •	
Non-core				· · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	• • • • <i>• • •</i> • • • • • •	<i></i>
RELATED TECHNICAL							
Sempling/estaying				•••••		• • • • <i>• •</i> • • • • • •	
Petrographic			· · · · · · · · ·	•••••	· · · · · · · · · · · · · · · · · · ·		
Mineralogic					· · · · · · · · · · · · · · · · · · ·	•••••	· · · · · · · · · · · · · ·
Motallurgic	· · · · · · · · · · · · · · · · · · ·		• • • • • • • • •	· · · · · · · ·	••••••	••••	· · · · · · · · · · · · · ·
PROSPECTING (scale, area)	· · · · · · · · · · · · · · · · · · ·						
PREPARATORYPHYSICAL	· · · · · · · · · · · · · · · · · · ·						
Legal survey's (scale, area)		.					
Topographic (scale, area)		.					
Photogrammetric (scale, area)						<i></i>	
Line/grid (kilometres)	350 m baseline	BA	c.o.N				
Road, local access (kilometres)	······································						499,20
Trench (metres)		.			· · <i>· · ·</i> · · · · · · · · · · · · · ·		
Underground (metres)						•••••••••	
-						TOTAL COST	2,496-00
FOR MINISTRY USE ONLY	NAME OF PAC ACCOU		DEBIT	CREDIT	REMARKS:		

OR MINISTRY USE ONLY	NAME OF PAC ACCOUNT	DEBIT	CREDIT	REMARKS:
(alue work done (from report)		• • • • • • • • •		
alue of work approved	· · · · · · · · · · · · · · · · · · ·			
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alue credited to PAC account				
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Ground Magnetometer Survey of the Bacon Claim

Nanaimo Mining Division, B.C.

Lat. 49° 58'N Long. 125° 37'W NTS: 92F/13E

Owner: Myron J. Sawiuk

by

Richard R. Gosse B.Sc., M.Sc., D.I.C.

March 25, 1991

GROEGELCAL BRANCH TSSEYSMERT BEPORT

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3. Ground Magnetometer Survey of the Bacon Claim Map	in back pocket

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I. Raw and Corrected Magnetometer Data. II. Statement of Costs.

SUMMARY

Ground measurements of total magnetic field intensity using a geoMetrics UniMag portable proton magnetometer (Model G-836) were taken every 10 m along a of total 4.42 line kilometres on the Bacon claim. The objective of the survey was to determine the magnitude and extent of the magnetic anomalies associated with the auriferous magnetite skarns found on the property. The work was carried out by Richard R. Gosse between March 12 and 16, 1991.

Four large sub-parallel magnetic anomalies were identified on a grid covering an area of about 350 x 550 m located immediately southeast of Bacon Lake. The anomalies range from 100 to 250 m long and 10 to 100 m wide. Two smaller subparallel anomalies, 10 to 30 m wide and 50 to 75 m long are also present. Four of the anomalies are open-ended.

The occurrence of magnetite skarns outcropping along three of the magnetic anomalies and the similar geometries of the other three anomalies, infer all six anomalies are probably caused by magnetite mineralization. The anomalies strike N20W to N30W, conforming to the strike of the regional geology. The preferential replacement of carbonate-rich units by magnetite is probable based on past mapping and the current understanding of the genesis of iron skarn deposits. The general shape of the anomalies is asymmetric with variable widths suggesting continuous podiform magnetite mineralization dipping to the east-northeast.

The property should be considered as a magnetite prospect and as well as a precious metal prospect. It is recommended that the grid be extended to the north and east to explore for continuations of the known magnetic anomalies and additional subparallel anomalies. To determine the potential for gold mineralization a soil survey over the magnetic anomalies is recommended.

The Bacon claim is owned by Myron J. Sawiuk.

INTRODUCTION

A five-day exploration program consisting of grid layout and a ground magnetometer survey was carried out on the Bacon claim. The work was performed by Richard Gosse between March 12 and 16, 1991.

The objective of the survey was to determine the magnitude and extent of the magnetic response of the auriferous magnetite skarns southeast of Bacon Lake.

Location and Access

The Bacon claim is located about 40 km west of Campbell River at roughly 49° 58' N and 125° 37' W. The claim is covered by NTS 92F/13E (Figure 1). Access to the claims is by Highway 28 to Gold River and by year-round logging roads from the Strathcona Dam turn-off at Upper Campbell Lake.

Claim Data

The Bacon claim is a single 4-post mineral claim consisting of 12 units. The claim is recorded at the Nanaimo Mining Division Office under record number 2366 and is owned by M. J. Sawiuk of Vancouver. Provided this assessment report is approved, the claim will expire on May 16, 1992.

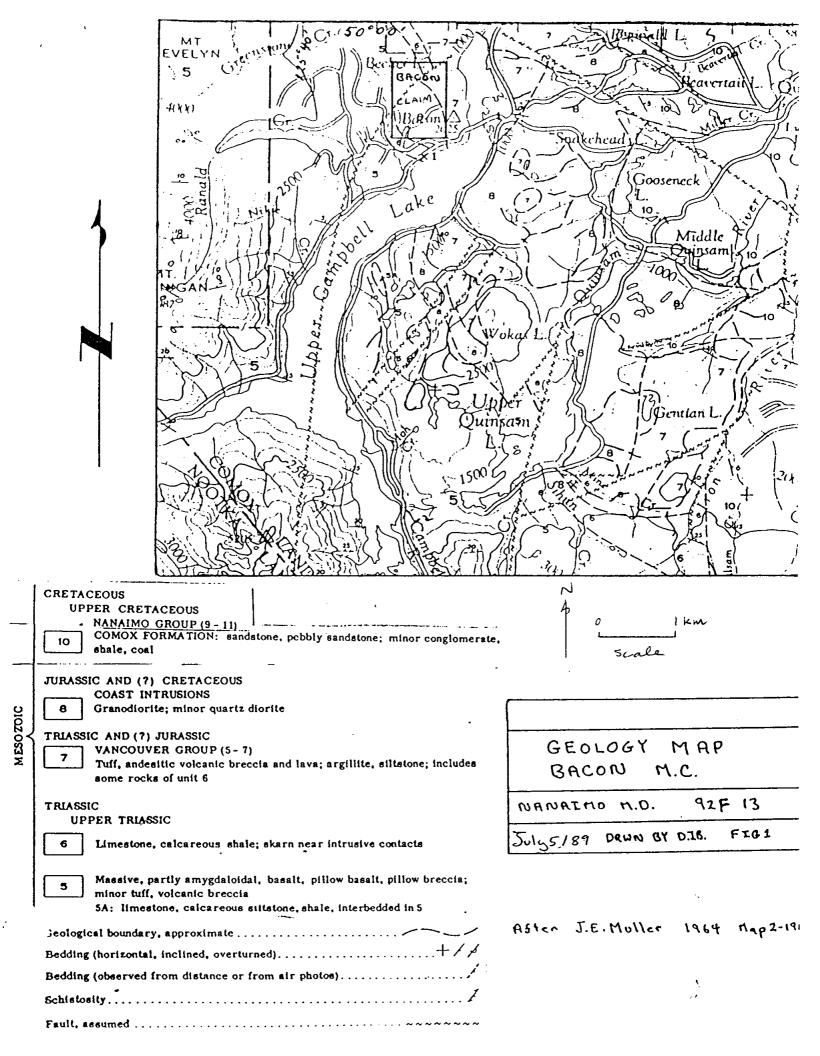
History

Magnetite skarns were first discovered near Bacon Lake in the early nineteen-fifties. Argonaut Mines Ltd. carried out diamond drilling on the property in the mid-fifties (Open Files). No further work was recorded on the property until the present Bacon claim was staked by R. Tessoline in 1986. Prospecting and rock sampling during the following years led to the discovery of gold mineralization associated with the iron skarn (Brownlee; 1987 & 1988). In 1989, several other magnetite occurrences were found and a small magnetic survey in the eastern part of the claim was carried out (Brownlee; 1989).

Geology

The property is largely underlain by Upper Triassic limestone and calcareous shales belonging to the Quatsino formation. They are overlain by Triassic or Jurassic tuffs and andesitic volcanic breccias and flows with interbeds of argillite, siltstone, and limestone (Muller; 1964). Granodiorite to diorite plutons of Jurassic or Cretaceous age have intruded the volcanic and sedimentary rocks resulting in the formation of magnetite skarns.

Magnetite \pm pyrite and chalcopyrite occur in veins, disseminations and massive replacement deposits. Cobalt and up to >0.5 oz/ton gold are locally present. Patches and veins of chlorite and epidote and some calcite veining are found in nearby intrusive and volcanic rocks.



1991 ASSESSMENT WORK PROGRAM

<u>Method</u>

The work program consisted of 350 m of surveyed north-south baseline (250 m of which was cleared using an axe) and 442 proton magnetometer measurements immediately southeast of Bacon Lake (Figure 2). A grid with 25 m line separation and 10 m station separation was established using a Brunton compass and hip-chain. An additional 200 m to the north were surveyed using a 10 x 50 m layout along an overgrown road which traverses the grid.

A geoMetrics UniMag portable proton magnetometer (Model G-836) was used during the survey. The Unimag measures total field intensity based upon an atomic constant defined by a proton gyromagnetic ratio of $(2.67513 \pm 0.00002) \times 10^4$ radians/gauss second. The Unimag provides 10 gamma resolution through a tuning range of 20,000-100,000 gammas.

During survey operation, the UniMag was tuned to the local field intensity of 56 kilogammas and readings were taken with the sensor held about 2 feet in front of the operator and three feet above the ground. All readings were taken with the sensor oriented to the north. Readings usually exhibited 1 count (10 gamma) stability and were recorded in a field notebook.

Repeated readings at the same station were made at different times during the survey to be used to correct the data for diurnal variation. A straight line was drawn through the bases station readings as a function of time and the magnetic variations were then subtracted from the raw survey readings (Appendix 1).

Results

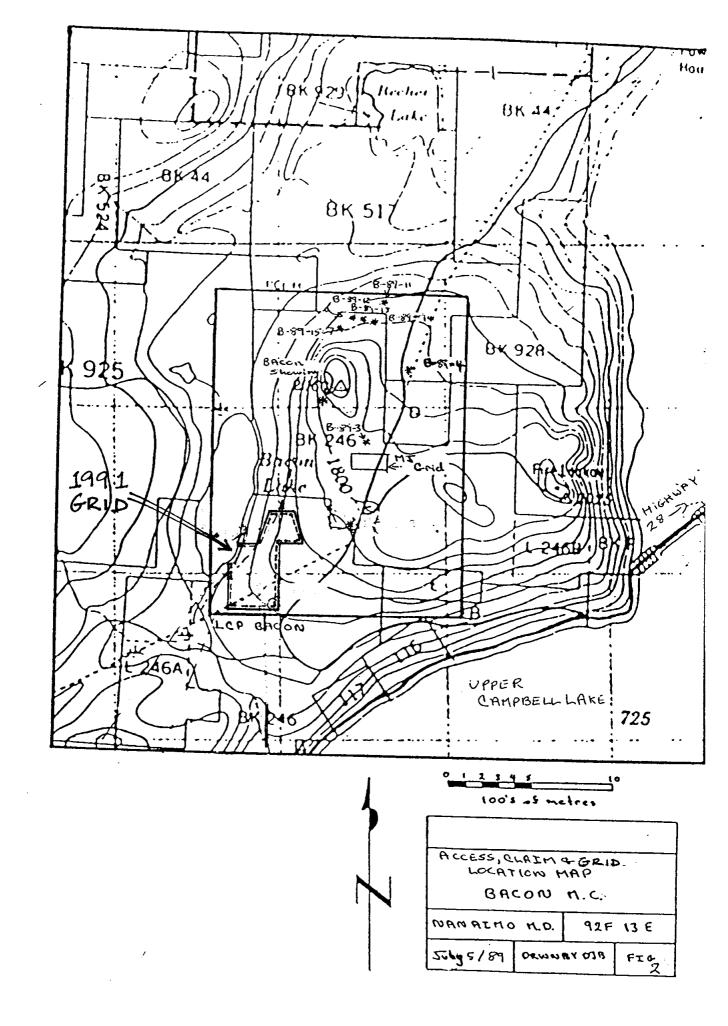
Data corrected for diurnal variation (Appendix I) was plotted and contoured using 30,000, 59,000, 60,000 and 62,250 gamma contours (see Ground Magnetometer Survey of the Bacon Claim Map in back pocket). Field intensities varied between 18,150 and 67,780 gammas but were generally in the 55,000 to 58,000 gamma range.

Completely erratic readings (loss of \pm 10 to 100 gamma repeatability) and in some cases complete loss of signal were encountered at some stations. The sharply degraded signal was apparently caused by i) the presence of massive magnetite mineralization (high gradient areas where field gradients exceed 600 gamma per metre) or; ii) AC power-lines (electrical noise) which cross the southern part of the grid.

At least four subparallel magnetic anomalies ranging from 100 to 250 m long and 10 to 100 m wide were identified. The anomalies are found over a 300 m wide zone with a total strike length of 400 m. The magnetic anomalies are variable in width but are generally continuous.

The largest anomaly appears to fork into two parallel anomalies separated by 20 to 50 m of background magnetic intensity, and is open in both north and south directions.

Two other large anomalies weaken as they approach the power-lines and, despite the presence of massive magnetite outcropping within the power-line clearing, the magnetometer failed to detect any related increase in field intensity. The extensions of these anomalies could not be found on the opposite side of the power-lines.



Including two smaller anomalies,10 to 30 m wide and 50 to 75 m long, there is a total of six significant magnetic anomalies. Of the six anomalies, two are open-ended in both directions and two are open in one direction.

Interpretation

Three of the six magnetic anomalies are almost certainly related to magnetite skarns due to their proximity to known surface magnetite occurrences (see map in back pocket). As the geometries of the other three anomalies is similar, it is reasonable to suggest they are also related to magnetite mineralization.

The apparent N20W to N30W strike conforms to the strike of the regional geology and suggests preferential replacement of certain units. It is likely that these units are carbonate-rich sediments as they are known to be exposed in the area (see section on geology) and they are the likely host-rock in magnetite skarn deposits.

The shape of the anomalies suggest the skarns are podiform but continuous over distances of 100 to 300 m. Although the anomalies are highly variable in shape and magnitude, they are generally asymmetric, peaking on the west and trailing out to the east. It is therefore realistic to suggest the skarns dip to the east-northeast.

CONCLUSIONS AND RECOMMENDATIONS

1. A total of 4.42 line km of proton magnetometer readings were taken every 10 m using a geoMetrics UniMag portable proton magnetometer (Model G-836). The work was performed by Richard R. Gosse between March 12 and 16, 1991.

2. Four large sub-parallel magnetic anomalies were identified on a grid covering an area of about 300 x 400 m located immediately southeast of Bacon Lake. The anomalies range from 100 to 250 m long and 10 to 100 m wide. Two of the anomalies are open to the north and south.

Two smaller subparallel anomalies, 10 to 30 m wide and 50 to 75 m long, are open in both directions.

3. Based on known occurrences of magnetite skarns outcropping along three of the magnetic anomalies and the similar geometries of the other three anomalies, it is reasonable to suggest that all six anomalies are caused by magnetite mineralization.

4. The anomalies strike N20W to N30W which conforms to the strike of the regional geology. The preferential replacement of carbonate-rich units by magnetite is likely from our knowledge of the local geology and genesis of iron skarn deposits.

5. The general shape of the anomalies is asymmetric with variable widths suggesting continuous podiform magnetite deposits dipping to the east-northeast.

6. The property should be considered as a magnetite prospect to produce industrial grade magnetite as well as a precious metal prospect.

It is recommended that the grid be extended to the north and east to explore for continuations of the known magnetic anomalies and additional parallel anomalies.

A soil survey over the magnetic anomalies is recommended to determine the potential for widespread gold mineralization.

REFERENCES

- Brownlee, D.J., 1987, Preliminary Reconnaissance and Lithogeochemical Survey of the Bacon Claim: Assessment Report, July 20, 1987.
- Brownlee, D.J., 1988, Follow-up Lithogeochemical Survey of the Bacon Claim: Assessment Report, April 25, 1988.
- Brownlee, D.J., 1989, Geological and Geophysical Survey of the Bacon Claim: Assessment Report, July 55, 1989.

Muller, J.E., 1964, G.S.C. Map 2-1965, Comox Lake Area.

Open Files, Selected company reports, B.C. Ministry of Energy, Mines and Petroleum Resources, Geological Division, Open Files 92F.

AUTHOR'S STATEMENT OF QUALIFICATIONS

I, Richard R. Gosse, resident of Vancouver, Province of British Columbia, hereby certify as follows:

1) I am a consulting geologist currently with MineQuest Exploration Associates Ltd. at 500-164 Water Street, Vancouver, B.C., V6B 1B5.

2) I graduated with a degree of Bachelor of Science (Hons) from Queen's University in 1982, and the degrees of Master of Science and Diploma of Imperial College in mineral exploration from the Royal School of Mines, University of London, U.K. in 1984.

3) I have practiced my profession for 8 years.

4) I am a Fellow of the Geological Society (London).

5) I conducted the work outlined in this report from March 12 to 16, 1991.

R.Goose

Richard R. Gosse

Dated at Vancouver, B.C., this 26th day of March, 1991.

Appendix I

Raw and corrected magnetometer data (total field intensity in gammas)

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Easting	Raw	Corr.	Raw	Corr.	Raw	Corr.	
		0 north		5 north		0 north	
18+50	52100	52100	35220	35220	56550	56530	
18+60	52110	52110	35290	35290	35180	35160	
18+70	50800	50800	50440	50440	35240	35220	
18+80	52110	52110	50710	50710	35290	35270	
18+90	52140	52140	49320	49320	35280	35260	
19+00	53270	53270	52180	52180	35260	35240	
19+10	53110	53110	51240	51240	35200	35180	
19+20	56620	56620	51550	51550	35230	35210	
19+30	56600	56600	51600	51600	51980	51560	
19+40	55670	55670	53780	53770	56220	56200	
19+50	56660	56660	55520	55510	49310	49290	
19+60	56650	56650	56490	56480	49300	49280	
19+70	56600	56610	56380	56370	49330	49310	
19+80	56640	56650	56490	56480	49330	49310	
19+90	56610	56620	56690	56680	49290	49270	
20+00	56650	56660	57050	57040	49460	49440	
20+10	56660	56670	56910	56900	57140	57120	
20+20	56820	56830	56940	56930	57220	57200	
20+30	56790	56800	57200	57190	57240	57220	
20+40	56910	56920	56930	56920	57220	57200	
20+50	56850	56860	56930	56920	57320	57300	
20+60	56950	56860	56900	56890	56900	56890	
20+70	56730	56740	57000	56990	56870	56860	
20+80	56660	56670	56900	56890	56900	56890	
20+90	56750	56760	56800	56790	56870	56860	
91.003	57170	57150	56930	56920	56930	56920	
21+00	57140	01100	00500	00020	00000	000-0	
Easting	Raw	Corr.	Raw	Corr.	Raw	Corr.	
Easting	Raw 48+25	Corr. 5 north	Raw 48+5	Corr. 50 north	Raw 48+75	Corr. i north	
Easting 18+50	Raw 48+25 56480	Corr. 5 north 56460	Raw 48+5 56530	Corr. 50 north 56480	Raw 48+75 56890	Corr. i north 55890	
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20+80	55460	55470	56660	56700	55870	55890
20+ 9 0	55800	55810	56970	57010	54680	54700
21+00	56090	56100	55590	55630	54540	54560
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18+60	lake		lake		lake	
18+70	lake		lake		lake	
18+80	55720	55740	lake		lake	
18 +9 0	55450	55470	55660	55690	lake	
19+00	55610	55630	55650	55680	55780	55810
19+10	55320	55350	55600	55620	55780	55810
19+20	54750	54770	55480	55500	55670	55700
19+30	53460	53480	55230	55250	55580	55610
19+40	49090	49110	54790	54810	55480	55510
19+50	57370	57390	53430	53450	54670	54700
19+60	54850	54870	51530	51550	54190	54220
19+70	54400	54420	51420	51440	53570	53600
19+80	60270	60280	53470	53490	51770	51800
19+90	59380	59390	55940	55960	49580	49610
20+00	62800	62810	53880	53900	51880	51910
20+10	51990	52010	28850	28900	53590	53620
20+20	54070	54090	64450	64500	58700	58730
20+30	55780	55800	61170	61220	61080	61110
20+40	58100	58120	62200	62250	59190	59220
20+50	59610	59630	58100	58150	56300	56330
20+60	57460	57480	54150	54200	54350	54380
20+70	54950	54970	53720	53770	54970	55010
20+80	54710	54730			53100	5314
20+90	54000	54020	X 10 X 0	-	46280	46320
21+00	54430	54450	54670	54720	20360	20400
21+10			54990	54040	55120	55160
21+20			55210	55260	66820	66860
21+30			55830	55880	59910	59950
21+40			58500	58550	60110	60150
21+50			57720	57770	62320	62360
21+60			58180	58230	59450	59490 (1700
21+70			67730	67780	61660	61700
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22+20 22+30			57270 57330	57320 57380	56920	56960
22+30 22+40			57330 57820	57380 57870	56660	56700
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90W			55470	55500		
80W			55540	55570		· · · ·
70W			55360	55390		
60W			55220	55250		
50W			54940	54970	54540	54550
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		54550	54580	53960	53970
55200	55250	55900	55930	54550	54560
57210	57260	58980	59010	56450	56460
54600	54650	60110	60140	58680	58690
57210	57260	62930	62960	51540	51550
57430	57480	62370	62390	64570	64570
45150	45200	57370	57390	52420	52420
60440	60490	47620	47640	57060	57060
56530	56580	57950	57970	60320	60320
56050	56090	57040	57060	59010	59010
56650	56690	60330	60350	57880	57880
56710	56750	56740	56760	60400	60400
55960	56000	58130	58150	62510	62510
59460	59500	58900	58920	59060	59060
55930	55970	59450	59470	56840	56840
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Appendix II

Statement of Costs

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STATEMENT OF COSTS

Personnel Mobilization and Field Work

R. Gosse - travel, March 12 & 16, 1991 2 days @ \$215/day	\$430.00
R. Gosse - field work, March 13 - 15, 1991 3 days @ \$240/day	\$720.00
Expenses	
Ferry - 1 vehicle, 1 driver 2 trips @ \$24/crossing	\$48.00
Accommodation 4 nights @ \$40.25/night	\$161.00
Meals 4 1/2 days @ \$30/day	\$135.00
Fuel	\$52.00
Vehicle 5 days @ \$40/day	\$200.00
Magnetometer Rental 5 days @ \$30/day	\$150.00
Preparation, drafting, computer time	\$600.00
	2 days @ \$215/day R. Gosse - field work, March 13 - 15, 1991 3 days @ \$240/day Expenses Ferry - 1 vehicle, 1 driver 2 trips @ \$24/crossing Accommodation 4 nights @ \$40.25/night Meals 4 1/2 days @ \$30/day Fuel Vehicle 5 days @ \$40/day Magnetometer Rental 5 days @ \$30/day

TOTAL

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\$2496.00

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