MAR 19950006: PEACE RIVER

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19950006

Assessment Report

Exploration Program on the Horseshoe Project, Peace River Area, Alberta

NTS 84-C-2,3,6,7
Latitude 56° 25'
Longitude 117° 00'

Metallic and Industrial Minerals Permits
Nos. 9393030126 to 9393030135

June 8 1995

on behalf of

Ridgeway Petroleum Corp. - Calgary
Horseshoe Gold Mining Inc. - Vancouver

by

Michael Marchand Ph.D. P. Geol.

ABSTRACT

An airborne magnetic survey was initially carried out over the permits in order to identify anomalies suggestive of kimberlitic pipes. A significant number of candidate anomalies were initially identified which were then qualified by detailed review and computer modelling. This process identified 5 high priority targets which were located and confirmed by ground magnetic surveys. A program of diamond drilling was then carried out using NQ sized core on four of the anomalies.

Initial results on the anomalies were disappointing in that no direct evidence of kimberlitic or lamproitic rocks were identified and no reason could be identified for the magnetic anomalies. Since it has been noted that there is great difficulty in visually identifying the sedimentary crater facies in high level kimberlite intrusions, a program of rock geochemistry is recommended in order to identify potential mafic components. Precise magnetic susceptibility measurements of the drill core should be undertaken in a laboratory in order to better understand the magnetic anomalies.

Table of Contents

Introduction:

This assessment report covers the work carried out during the evaluation of the Ridgeway Petroleum Metallic and Industrial Minerals Permits Nos. 9393030126 to 9393030135 permits in the Peace River area during the years 1994 and 1995. The work was carried out for a joint venture of Ridgeway Petroleum Corp., the original holder of the permits and Horseshoe Gold Mining Inc which was the operator of the project during the earn-in phase of the project. The primary work programs consisted of an airborne geophysical survey and interpretation followed by a drilling program of 4 NQ diamond drill holes on separate magnetic anomalies. These exploration activities were directed at discovering economic diamond deposits in kimberlitic or lamproitic rocks.

Location & Access

The permits cover 86,208 ha. (213,024 acres) and are located near Peace River Alberta (Map 1) on NTS mapsheet 84C-2,3,6,7 consisting of T83 R17 & R20 W5, T84 R17 & R20 W5, T85 R17 & R19 -20 W5, T86 R17,18,19 W5 for a total of 10 townships. The town of Peace River lies 150 km NE of Grand Prairie and 370 km NW of Edmonton. Peace River is a town with a population of 6700 with good infrastructure and daily scheduled airline service.

The lands are presented graphically on Map 2 and a detailled list of the permits is presented as Table 1.

Access to the property was primarily by helicopter from the town of Peace River and all drill moves were made by helicopter in order to minimise the environmental impact of the operation.

Regional Geology:

The permits cover a portion of the Peace River Arch (PRA) tectonic zone. The PRA is a cratonic uplift that was formed at a high angle to the passive margin of the Western

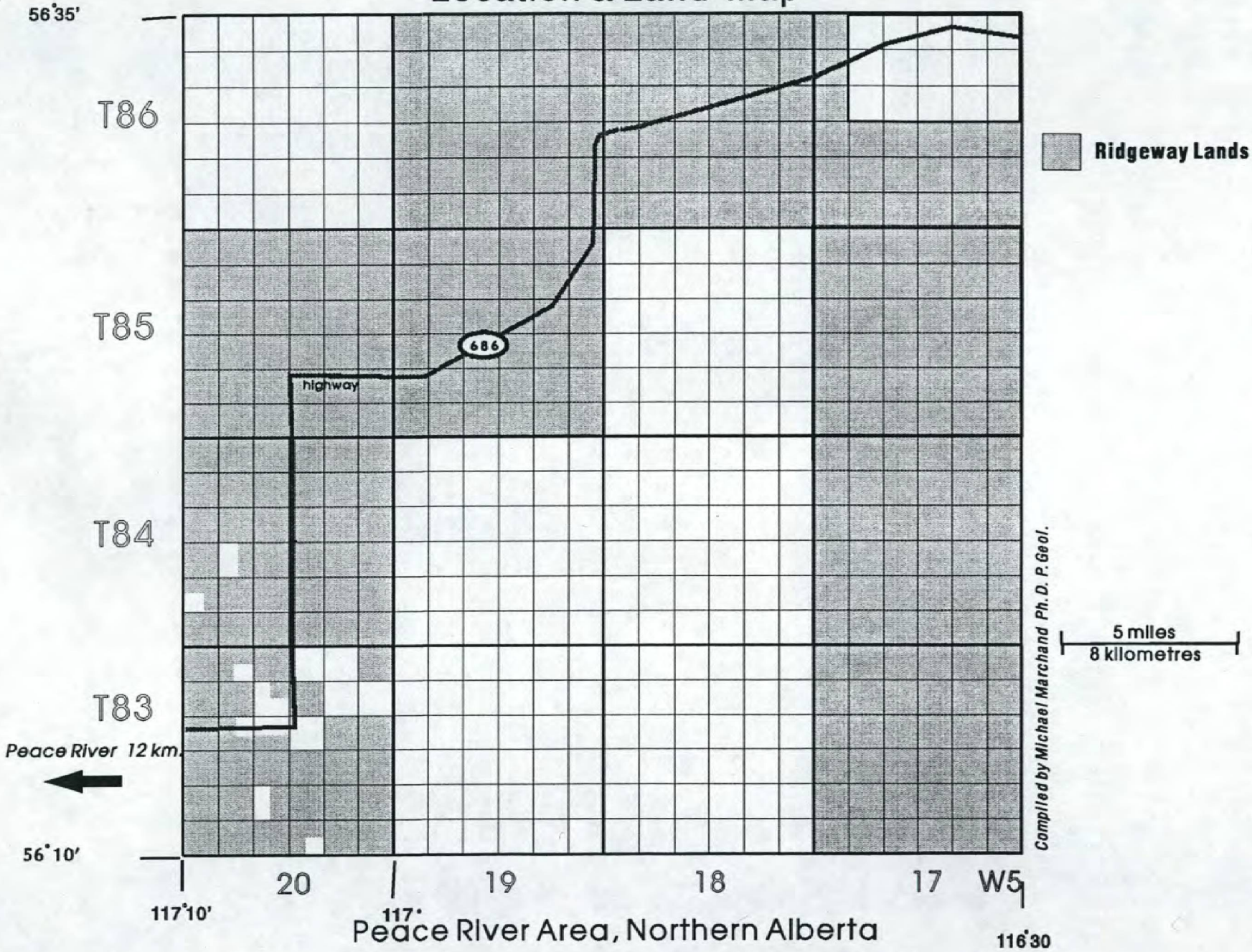
Map 1

.ocation Map

\lberta, Canada

Ridgeway Petroleum Corp. - Horseshoe Gold Mining Inc.

Location & Land Map



Peace River Area, Northern Alberta

Map 2

Ridgeway Petroleum Corp.
Horseshoe Gold Mining Inc.

Mineral & Industrial Mineral Permits
Peace River Area, Alberta

Permit Number	Date Issued	Aggregate Area hectares	Description
9393030126	Mar 12 1993	9216	5-17-083: 1-36
9393030127	Mar 12 1993	7296	5-20-083: 1;2;3N,SW;4-8;9E;10-19;20S,NW;21S;23;24;27;28NE;29-31;32N,SW;33;36
9393030128	Mar 12 1993	9216	5-17-084: 1-36
9393030129	Mar 12 1993	9024	5-20-084: 1-6;7N,SE;8-16;17E;18-36
9393030130	Mar 12 1993	9216	5-17-085: 1-36
9393030131	Mar 12 1993	9216	5-19-085: 1-36
9393030132	Mar 12 1993	9216	5-20-085: 1-36
9393030133	Mar 12 1993	5376	5-17-086: 1-19; 30,31
9393030134	Mar 12 1993	9216	5-18-086: 1-36
9393030135	Mar 12 1993	9216	5-19-086: 1-36
		86208	Total Area

Table 1

Canadian Sedimentary Basin during the late Proterozoic and was active in a variety of modes and times throughout the Phanerozoic. During the activity of the PRA, faulting was extensive with reactivation of Archean and Proterozoic faults a significant event. This occurrence of major faulting through the basement rocks provides excellent ground preparation for later kimberlite and lamproite events. They provide the pre-existing conduits for the younger kimberlitic intrusions to follow, potentially picking up the diamonds from the top of the mantle. The PRA has been re-activated a number of times in its history.

The Geological Survey of Canada has produced a number of studies and papers of the crustal structure beneath the Alberta portion of the basin. These studies are an integrated interpretation of the regional magnetic and gravity data, some recent seismic refraction studies and a program of U-Pb geochronology on samples from the wells that penetrated the Precambrian basement. The basement in the Peace River area is underlain by a cratonic block fringed by a metasedimentary belt. This cratonic block has been interpreted as "a complex region of crustal fragments" which may have allowed the preservation of old deep mantle roots that are the fertile regions for diamond generation and preservation.

Permit Geology

The bedrock surface lithology within the permit blocks are sedimentary formations of Upper Cretaceous age. (Map 3) The published geological Map (Green et al., 1970) indicates that the westerly portion of the project area is covered by dark grey shales of the Smoky Group, the northern and eastern portion of the project ares underlain by feldspathic sandstone of the Dunvegan Formation. There is also a small amount of Shaftsbury Formation indicated outcropping in T84-85 R20 along the edge of the Peace River Valley. No actual ground mapping was carried out on the permits. It appears from the air photos and the diamond drilling that much of the area is heavily covered by drift. All four holes in the diamond drilling encountered approximately 200 ft overburden.

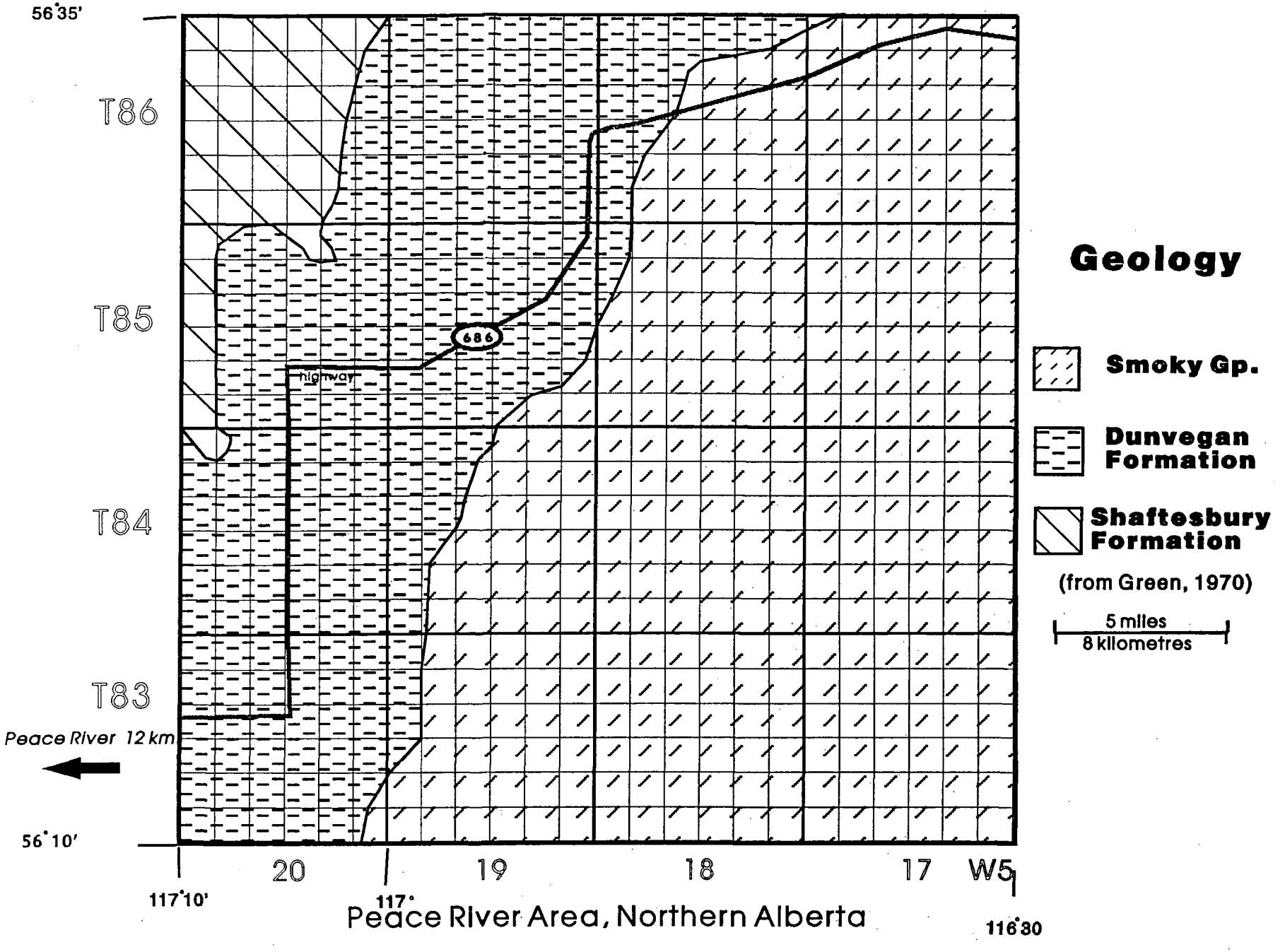
Aeromagnetic Survey:

Geonex Aerodat flew a low level aeromagnetic survey of approximately 6600 line-kms. over the permits in February 1994. The lines were flown at a 200 metre separation to ensure that any kimberlite of economic size would be detected on at least one line. Aerodat produced a series of maps at a scale of 1:20,000 for the area showing both the total magnetic field (Maps 1-1 to 6 - in pocket) and the calculated vertical magnetic gradient. The calculated vertical magnetic gradient map is designed to highlight the shallower anomalies which would include any potential kimberlites. A digital version of the flight line data was also forwarded to Geophysical Exploration and Development Corp (GEDCO) of Calgary for computer-assisted enhancement and interpretation.

Interpretation of the magnetic data was assisted by compiling much of the ground truth from public digital data and recent airphotos. A difficulty with the survey area that required resolution is the large amount of magnetic noise caused by human activity that interferes with the interpretation of the data. It was decided that the most practical approach would be to eliminate as quickly as possible those magnetic features due to human activity. The most apparent problem was the several hundred oil and gas wells that occur throughout the permits. A digital data file of all the well locations which was then input into the computer system of GEDCO where the wells were plotted onto the magnetic survey. This highlighted those anomalies due to wells and allowed efforts to be focused on the remaining anomalous areas. GEDCO carried out a series of filtering and enhancement procedures to rapidly highlight the shallow anomalies that should include those due to kimberlite intrusions. These procedures also showed up a distinctive pattern of faulting (Map 4) that has not been well documented previously. This pattern is thought to reflect evidence of deeper basement faults continuing upwards to the surface through the palaeozoic sediments; evidence of probable younger reactivation of major basement faults during later tectonic episodes. Kimberlite intrusives would represent one potential manifestation of this reactivation.

The initial analysis of the filtered maps and profiles produced a total of 26 significant anomalies. All anomalies were located on air photos and none appear to have any obvious

Ridgeway Petroleum Corp. - Horseshoe Gold Mining Inc.



Peace River Area, Northern Alberta

Map 3

correlation with man-made structures. These anomalies start close to surface and continue to at least 200-300 m depth and with a width of approximately 200 m. This is the type of signature envisioned for a kimberlite intrusion and is not representative of any other known geological feature in the area. All anomalies that were eventually drilled were depth modelled and indicated that the top of the anomaly should be within 50 metres of surface and continue down to at least 200 metres depth. The five priority anomalies (17,18,19,20,26) resulting from this analysis and selected for diamond core drilling are shown on Map 4.

Ground Magnetic Survey:

MWH Geophysics carried out ground magnetic surveys consisting of two perpendicular profiles across anomalies 17,18,19,20, and 26. These locations were flagged on the ground and the potential drill site was located on the ground. The ground surveys matched exactly with the airborne survey and served to precisely locate the drill sites.

Diamond Drilling :

A total of five sites were prepared and identified for NQ diamond drill core drilling during this program. The sites have been identified as 95-17, 95-18, 95-19, 95-20, and 95-26. Drill logs are in Appendix A.

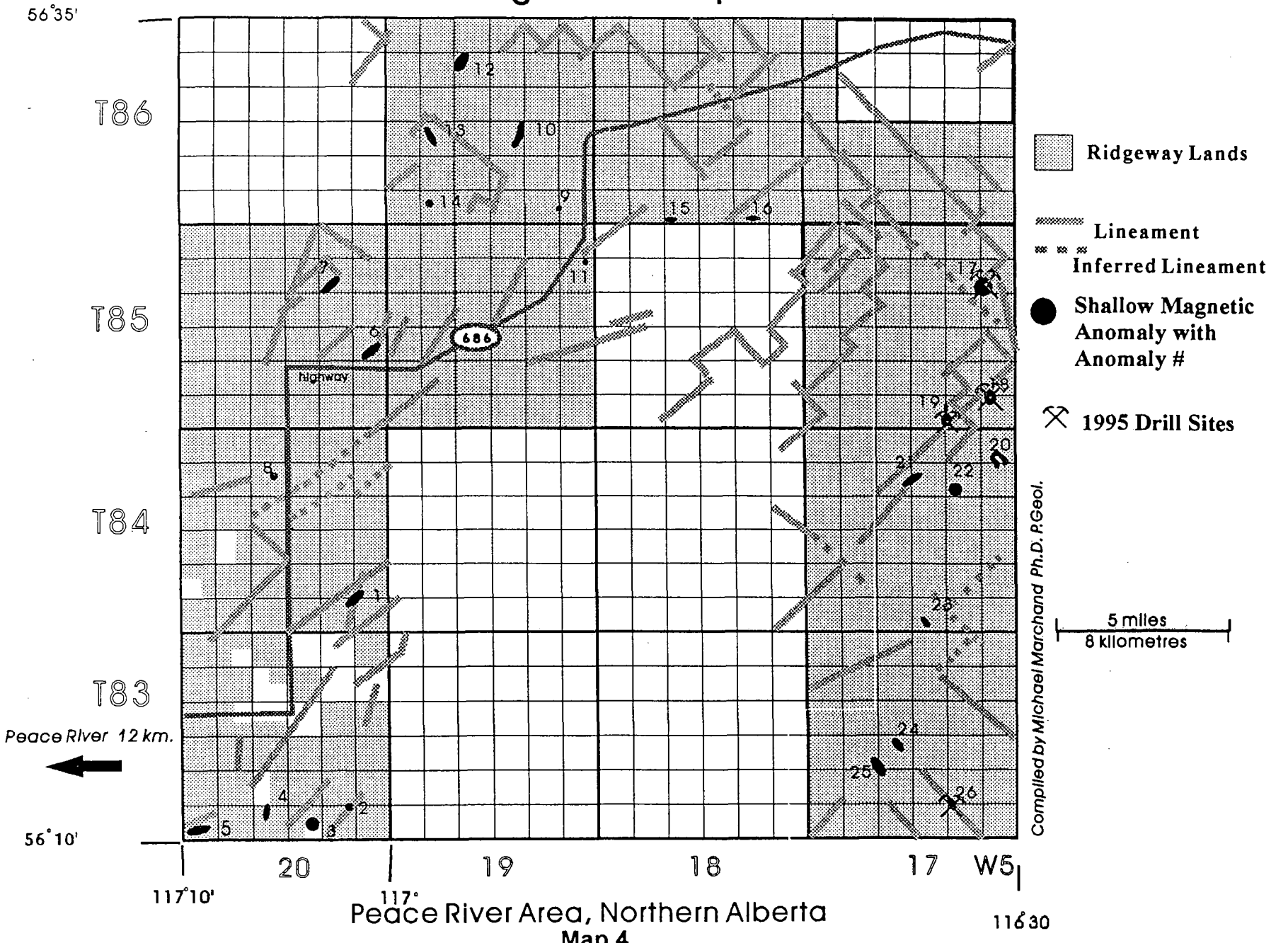
Site 95-17 was the first anomaly selected for drilling as it had the best geophysical signature in the modelling program and also had a circular and tonal anomaly on the air-photo. The depth of overburden was 194 feet with the drilling ending a few inches into bedrock. As this hole experienced very difficult drilling conditions, it was abandoned after sampling the bedrock which appears to be grey shale of the Smoky Group.

Site 95-18 was drilled to a depth of 522 ft. in bedrock after passing through 230 ft of overburden. The complete interval appears to be grey shale of the Smoky Group.

Site 95-19 was drilled through 200 ft of overburden and through 20 ft of bedrock.

Ridgeway Petroleum Corp. - Horseshoe Gold Mining Inc.

Aeromagnetic interpretation



Peace River Area, Northern Alberta

Map 4

The complete interval appears to be grey shale of the Smoky Group.

Site 95-20 was completely prepared for drilling but at the very last minute it was decided to bypass the site at this time due to the perceived unfavourable results from sites 17,18, and 19.

Site 95-26 was drilled through 160 ft of overburden and through 57 ft of bedrock. The complete interval appears to be grey feldspathic sandstone of the Dunvegan Formation.

Conclusions:

The results of the diamond drilling initially appear to be unfavourable but apparently the reported presence of crater facies shales from the pipe located on the Monopros property to the south indicates that a visual examination of the core will be inadequate to identify the potential presence of kimberlitic sediments or fragments. At site 26 the sandstone carries large angular fragments of feldspathic (igneous) rock and some garnet fragments have been tentatively identified in the drill core. Dr. Dale Leckie of the Geological Survey of Canada had the opportunity to have a brief look at the feldspathic sandstone on a core sample from site 26. He identified it as *atypical* Dunvegan Formation since the large angular fragments and igneous components were unusual. The implication is that there was no known source for such fragments and they may have originated locally from an intrusive pipe bringing up fragments of the Precambrian basement. A program of geochemical analyses is recommended to be carried out on samples of drill core in order to identify any kimberlitic or lamproitic component.

The core is apparently non-magnetic in character which means that the well constrained magnetic anomalies that were drilled have not yet been adequately explained. It is recommended that some magnetic susceptabillities be accurately measured in a laboratory setting and the results can be fed back into the computer modelling in order to refine the magnetic anomalies on the drilled targets.

CERTIFICATE

I. Michael Marchand, of [redacted] in the City of Calgary in the Province of Alberta, do hereby certify that:

1. I am an independent Consulting Geologist.

2. I am a member in good standing of the Association of Professional Engineers, Geologists and Geophysicists of Alberta.

3. I am graduate of McGill University, B.Sc. (honours) Geology 1967, M.Sc. Geology 1970 and a graduate of McMaster University with a Ph.D. Geology 1976.

4. I have worked continually in the Geosciences for the past 20 years.

5. I do own a royalty on the permits described in this report and do have a minor holding in stock of Ridgeway Petroleum Corp.

6. I am the author of this report entitled "Exploration Program on the Horseshoe Property, Peace River Area, Alberta", dated June 7 1995.

Dated at Calgary, Alberta this 7 th day of June, A.D. 1995.

Respectfully Submitted,

Michael Marchand, B.Sc., M.Sc, Ph.D., P.Geo

PROFESSIONAL GEOLOGIST ALBERTA
MICHAEL MARCHAND

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Appendix A

Ridgeway Petroleum Corp. - Horseshoe Gold Mining Inc.
Horseshoe Project
Peace River Area, Alberta

Diamond Drilling Logs

Hole Number	Location	Depth meters	Depth feet	Remarks
95-17	T85 R17 S25 W5 Lat: 56°20'49" Long: 116°33'25"	0-59.03 59.03-59-13	0-194 194-194	Overburden Dark Grey Shale - Smoky Group
95-18	T85 R17 S1 W5 Lat: 56°20'49" Long: 116°33'15"	0-70.1 70.1-159.11	0-230 230-522	Overburden Dark Grey Shale - Smoky Group
95-19	T85 R17 S2 W5 Lat: 56°20'30" Long: 116°35'12"	0-61 61-67	0-200 200-220	Overburden Dark Grey Shale - Smoky Group
95-26	T83 R17 S11 W5 Lat: 56°10'34" Lat: 116°34'30"	0-48.8 48.8-66.2	0-160 160-217	Overburden Feldspathic Sandstone - Dunveagen Group

Appendix B

Ridgeway Petroleum Corp.
Horseshoe Gold Mining Inc.
Peace River Area, Alberta
Permit Nos. 9393030126-35
Statement of Expenditures

Diamond Drilling		
J.T. Thomas Diamond Drilling Ltd.	$74,057.00	$74,057.15
Airborne Geophysics		
Geonex Aerodat	$79,044.00	$79,044.00
Project Management		
R.T. Heard & Assoc Ltd.	$21,504.75	
(includes all helicopter charges)	$66,228.89	
	$4,213.36	
	$8,237.17	
	$631.80	$100,815.97
Geological Consulting		
[redacted]	$2,969.56	
	$1,575.00	$4,544.56
Geophysical Consulting		
Gedco	$3,051.45	
Gedco	$1,496.60	
MWH Geophysics	$6,226.00	$10,774.05
	Total	$269,235.73
	GST	$18,846.50
	Grand Total	$288,082.23

I certify that these expenses are true and were expended for assessment of the above listed permits

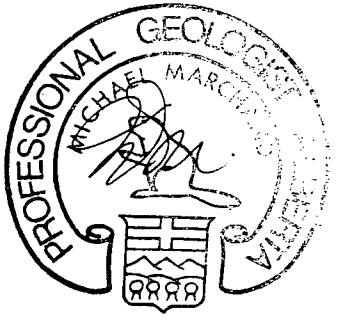
[redacted]

Michael Marchand Ph.D. P. Geol.

Appendix C

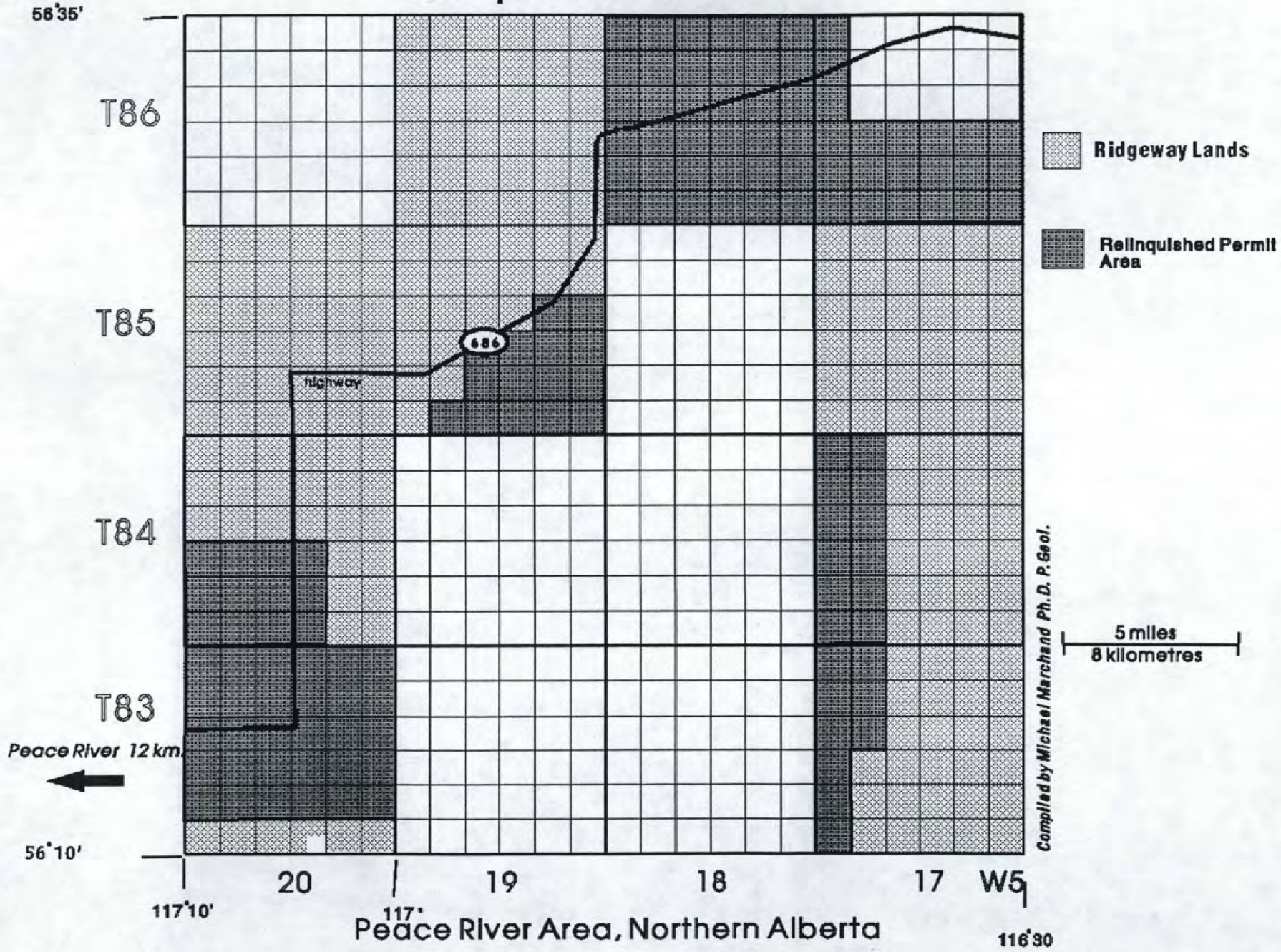
Allocation of Exploration Expenses

			Exploration Expenses	$195,178.58		
			Drilling Expenses	$74,057.00		
			Total Exploration Expenses	$269,235.58		
Permit number	Date Issued	Revised Description	Original Area	Selected Area	Drilling Expenses	Exploration Expenses
9393030126	Mar 12 1993	5-17-083: 1-5,8-17,21-28,33-36	9216	6912	$27,977.00	$6,583.00
9393030127	Mar 12 1993	5-20-083: 1;2;3N,SW;4-6	7296	1472		$7,360.00
9393030128	Mar 12 1993	5-17-084: 1-4, 9-16, 21-28, 33-36	9216	6144		$30,720.00
9393030129	Mar 12 1993	5-20-084: 1-2;11-14; 19-36	9024	6144		$30,720.00
9393030130	Mar 12 1993	5-17-085: 1-36	9216	9216	$46,080.00	$0.00
9393030131	Mar 12 1993	5-19-085: 6-8, 17-22, 25-36	9216	5376		$26,880.00
9393030132	Mar 12 1993	5-20-085: 1-36	9216	9216		$46,080.00
9393030133	Mar 12 1993	5-17-086: drop the whole permit	5376	0		$0.00
9393030134	Mar 12 1993	5-18-086: drop the whole permit	9216	0		$0.00
9393030135	Mar 12 1993	5-19-086: 1-36	9216	9216		$46,080.00
				Total	$74,057.00	$194,423.00
				Remaining	$0.00	$755.58
Remaining dollars		$755.58	to be transferred to the remaing period of permit		9393030126	



Ridgeway Petroleum Corp. - Horseshoe Gold Mining Inc.

Relinquished Lands



Peace River Area, Northern Alberta

Appendix C

Appendix D

Ground Magnetic Surveys

Horseshoe Gold Mining Inc. - Ridgeway Petroleum Corp. Diamond Exploration Program Ground Magnetics - Profile Origins					
Twp	**Rge**	**Northing UTM**	**Easting UTM**	**Anomaly #**	**Ground Identification marked by flagging**
85	17	6250280	527520	17	at 300S 0E
85	17	6244450	527800	18	tripod at 0/0
85	17	6244000	525800	19	tripod at 0/0
84	17	6241380	528900	20	at 225E 0N on seismic line
83	17	6225560	526200	26	tripod at 500S 0E

This appendix contains the MWH Geophysics ground magnetic data. The data are presented as profiles for each anomaly, as raw data and as readings corrected for the diurnal magnetic field variations. All units are in nanoTeslas (nT).

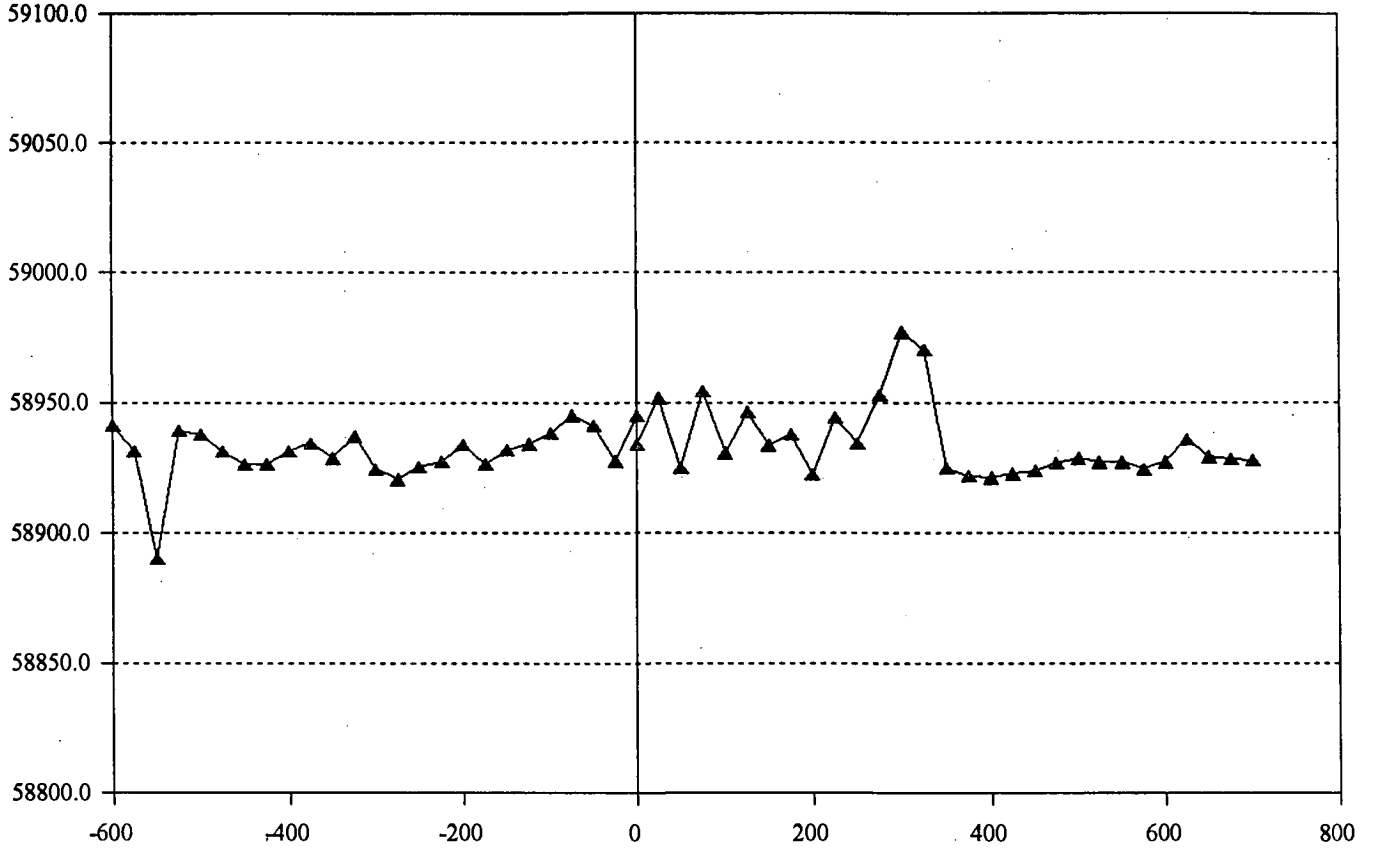
Gem Systems GSM-19 v4.0 25 I 94 ID 000000260 file 01 .m 14 I 95

Anomaly 17

time	line	station	field nT	corrected field nT	time	line	station	field nT	corrected field nT
122350	00000E	-625 S	59290.95	58814.40	143356	00075S	-575 W	59318.17	58830.23
122308	00000E	-600 S	59288.59	58811.84	143244	00075S	-550 W	59317.85	58830.31
122150	00000E	-575 S	59290.82	58813.38	143156	00075S	-525 W	59316.94	58829.37
122050	00000E	-550 S	59289.99	58812.24	143102	00075S	-500 W	59316.46	58828.60
121920	00000E	-525 S	59290.45	58812.78	143014	00075S	-475 W	59317.62	58829.84
121744	00000E	-500 S	59288.62	58810.92	142914	00075S	-450 W	59313.74	58826.35
121644	00000E	-475 S	59286.58	58809.28	142820	00075S	-425 W	59314.29	58827.37
121526	00000E	-450 S	59283.49	58806.17	142726	00075S	-400 W	59313.83	58827.17
121414	00000E	-425 S	59297.84	58820.77	142632	00075S	-375 W	59311.34	58824.72
121238	00000E	-400 S	59327.71	58851.39	142538	00075S	-350 W	59309.74	58823.07
121126	00000E	-375 S	59321.00	58844.29	142438	00075S	-325 W	59310.08	58822.89
121208	00000E	-375 S	59319.90	58843.54	142344	00075S	-300 W	59310.69	58823.14
121038	00000E	-350 S	59277.79	58800.54	142250	00075S	-275 W	59308.26	58820.34
120950	00000E	-325 S	59281.97	58805.14	142156	00075S	-250 W	59306.11	58819.17
123350	00000E	-300 S	59288.61	58811.31	142038	00075S	-225 W	59303.88	58817.84
120914	00000E	-300 S	59288.31	58811.83	141938	00075S	-200 W	59302.76	58816.40
123632	00000E	-275 S	59296.71	58818.72	141844	00075S	-175 W	59299.73	58812.73
123514	00000E	-275 S	59295.96	58818.50	141732	00075S	-150 W	59305.55	58818.79
123714	00000E	-250 S	59302.59	58824.23	141620	00075S	-125 W	59314.69	58828.61
123802	00000E	-225 S	59303.40	58824.96	141520	00075S	-100 W	59318.57	58832.52
123856	00000E	-200 S	59308.52	58830.11	141432	00075S	-75 W	59317.97	58832.11
123950	00000E	-175 S	59310.22	58831.61	141344	00075S	-50 W	59323.50	58837.89
124044	00000E	-150 S	59313.70	58834.90	141250	00075S	-25 W	59322.96	58837.55
124150	00000E	-125 S	59316.35	58837.39	133832	00075S	0 E	59350.41	58865.42
124250	00000E	-100 S	59312.75	58833.77	133732	00075S	0 E	59351.03	58866.01
124408	00000E	-75 S	59330.39	58851.41	140944	00075S	0 E	59348.76	58863.64
124514	00000E	-50 S	59320.46	58841.57	133926	00075S	25 E	59315.46	58831.30
124620	00000E	-25 S	59318.53	58839.26	134026	00075S	50 E	59316.95	58833.13
124714	00000E	0 S	59314.59	58835.24	134126	00075S	75 E	59305.44	58821.77
124950	00000E	25 N	59300.60	58820.85	134220	00075S	100 E	59304.70	58820.94
125044	00000E	50 N	59296.73	58816.74	134332	00075S	125 E	59292.47	58808.99
125220	00000E	75 N	59295.26	58815.73	134450	00075S	150 E	59287.32	58804.39
125332	00000E	100 N	59294.59	58815.08	134602	00075S	175 E	59287.03	58803.56
125444	00000E	125 N	59295.68	58816.80	134708	00075S	200 E	59285.55	58801.44
125550	00000E	150 N	59293.46	58814.71	134756	00075S	225 E	59287.15	58803.05
125708	00000E	175 N	59288.21	58808.51	134844	00075S	250 E	59291.52	58807.98
125820	00000E	200 N	59296.05	58816.14	134938	00075S	275 E	59286.20	58802.95
125920	00000E	225 N	59288.55	58809.09	135056	00075S	300 E	59358.01	58873.02
130020	00000E	250 N	59288.08	58808.80	135320	00075S	325 E	59347.06	58862.04
130126	00000E	275 N	59287.67	58808.08	135232	00075S	325 E	59355.75	58870.10
130232	00000E	300 N	59290.96	58810.56	135414	00075S	350 E	59285.02	58800.05
130338	00000E	325 N	59293.98	58812.95	135544	00075S	375 E	59286.57	58800.50
130450	00000E	350 N	59294.41	58812.97	135714	00075S	400 E	59286.15	58800.15
130550	00000E	375 N	59292.45	58811.33	135756	00075S	425 E	59290.05	58805.03

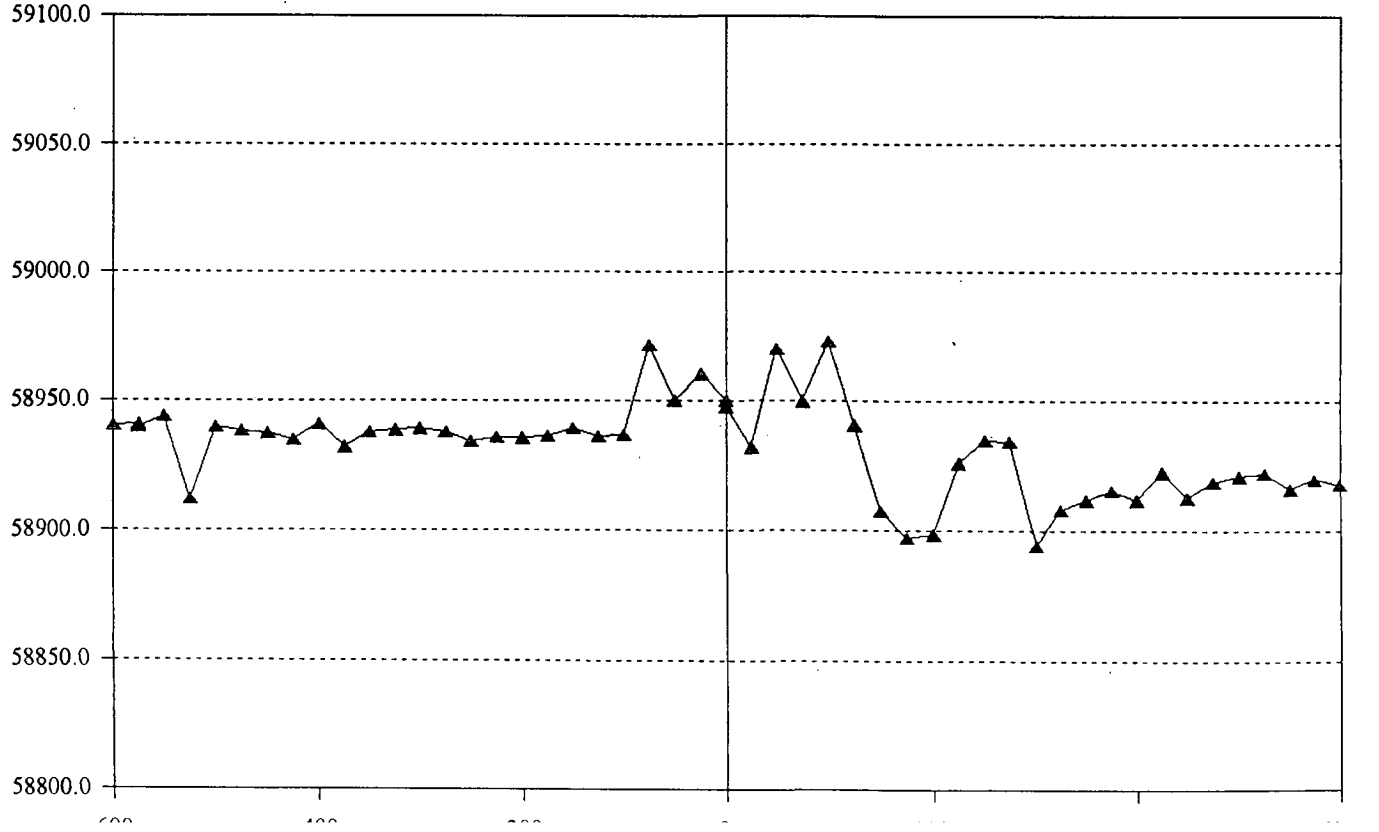
Anomaly 18 Mag Profile

Line 0N



Anomaly 18 Mag Profile

Line 125E



Gem Systems GSM-19 v4.0 25 I 94 ID 000000260 file 01 .m 11 I 95

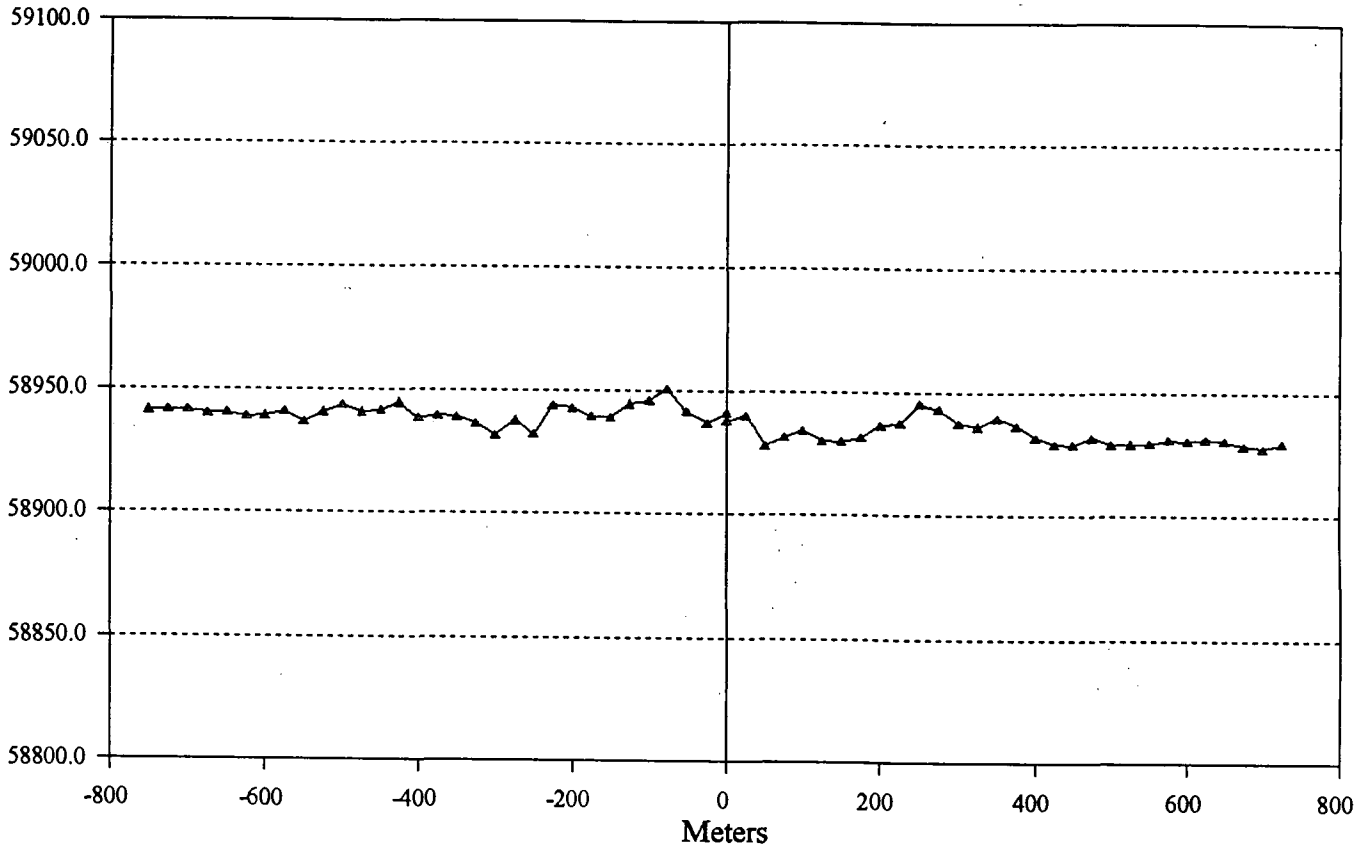
Anomaly 18

time	line	station	field nT	corrected field nT
111102	00000N	-600 W	59429.91	58941.41
111008	00000N	-575 W	59420.47	58931.71
110856	00000N	-550 W	59422.22	58890.38
110750	00000N	-525 W	59426.80	58939.68
110650	00000N	-500 W	59423.94	58938.19
110556	00000N	-475 W	59417.08	58931.53
110450	00000N	-450 W	59410.27	58926.47
110356	00000N	-425 W	59409.13	58926.42
105402	00000N	-400 W	59412.53	58931.43
105326	00000N	-375 W	59416.13	58934.61
105250	00000N	-350 W	59410.99	58928.89
105220	00000N	-325 W	59419.44	58937.26
105144	00000N	-300 W	59406.31	58924.79
105114	00000N	-275 W	59401.78	58920.83
105038	00000N	-250 W	59405.53	58925.44
104956	00000N	-225 W	59407.78	58927.58
104920	00000N	-200 W	59414.88	58934.08
104844	00000N	-175 W	59407.94	58926.56
104808	00000N	-150 W	59413.72	58932.20
104738	00000N	-125 W	59415.51	58934.21
104650	00000N	-100 W	59419.94	58938.54
104550	00000N	-75 W	59427.59	58945.32
104514	00000N	-50 W	59423.92	58941.41
104426	00000N	-25 W	59410.77	58927.88
104350	00000N	0 E	59427.27	58944.77
100502	00000N	0 E	59408.81	58934.08
100556	00000N	25 E	59426.02	58951.83
100638	00000N	50 E	59398.74	58925.09
100714	00000N	75 E	59427.02	58954.26
100750	00000N	100 E	59403.66	58930.84
100826	00000N	125 E	59418.55	58946.56
100902	00000N	150 E	59407.09	58933.94
100932	00000N	175 E	59412.18	58938.24
101002	00000N	200 E	59397.90	58922.39
101032	00000N	225 E	59421.48	58944.42
101102	00000N	250 E	59412.78	58934.76
101132	00000N	275 E	59430.53	58952.91
101202	00000N	300 E	59455.24	58977.17
101232	00000N	325 E	59450.10	58970.37
101302	00000N	350 E	59405.65	58925.31
101338	00000N	375 E	59403.12	58922.19
101508	00000N	400 E	59401.47	58921.31
101544	00000N	425 E	59401.93	58922.84
101744	00000N	450 E	59401.84	58924.21
101838	00000N	475 E	59404.70	58926.95
102008	00000N	500 E	59407.80	58928.88
102132	00000N	525 E	59405.98	58927.35
102244	00000N	550 E	59405.90	58927.29
102408	00000N	575 E	59406.01	58924.89
102538	00000N	600 E	59407.75	58927.39
102738	00000N	625 E	59416.38	58936.15
102938	00000N	650 E	59409.60	58929.42
103108	00000N	675 E	59411.71	58928.72
103156	00000N	700 E	59411.54	58927.99

time	line	station	field nT	corrected field nT
125532	00125E	-600 S	59434.47	58940.61
125344	00125E	-575 S	59436.19	58940.91
125226	00125E	-575 S	59436.10	58941.15
124926	00125E	-575 S	59430.24	58940.00
124826	00125E	-550 S	59433.77	58943.95
124644	00125E	-525 S	59432.35	58912.23
124532	00125E	-500 S	59432.22	58940.02
124408	00125E	-475 S	59430.88	58938.29
124256	00125E	-450 S	59427.44	58937.41
124120	00125E	-425 S	59424.62	58935.01
124002	00125E	-400 S	59428.81	58941.16
123914	00125E	-375 S	59418.11	58932.39
123356	00125E	-350 S	59430.14	58938.12
123214	00125E	-325 S	59429.89	58938.74
123056	00125E	-300 S	59431.28	58939.25
122914	00125E	-275 S	59432.33	58937.91
122638	00125E	-250 S	59428.64	58934.52
122414	00125E	-225 S	59431.32	58935.93
122220	00125E	-200 S	59431.81	58935.82
122102	00125E	-175 S	59432.06	58936.68
122026	00125E	-150 S	59434.74	58939.71
121844	00125E	-125 S	59431.53	58936.65
121714	00125E	-100 S	59432.11	58936.78
121538	00125E	-75 S	59466.88	58971.36
121414	00125E	-50 S	59445.46	58950.04
121332	00125E	-25 S	59455.41	58960.21
114114	00125E	0 N	59439.73	58949.97
121250	00125E	0 N	59442.40	58947.59
114144	00125E	25 N	59422.80	58932.28
114214	00125E	50 N	59460.80	58970.02
114244	00125E	75 N	59440.47	58949.72
114314	00125E	100 N	59464.17	58972.82
114344	00125E	125 N	59432.26	58940.77
114414	00125E	150 N	59399.20	58907.60
114444	00125E	175 N	59389.32	58897.13
114514	00125E	200 N	59390.44	58898.50
114544	00125E	225 N	59416.97	58926.23
114614	00125E	250 N	59425.61	58934.96
114644	00125E	275 N	59425.49	58934.58
114714	00125E	300 N	59386.74	58894.48
114750	00125E	325 N	59400.02	58908.30
114820	00125E	350 N	59403.52	58911.94
114850	00125E	375 N	59408.92	58915.50
115102	00125E	400 N	59407.00	58911.94
115302	00125E	425 N	59416.35	58922.97
115414	00125E	450 N	59405.09	58912.96
115544	00125E	475 N	59410.99	58919.00
115650	00125E	500 N	59413.38	58921.45
115808	00125E	525 N	59414.19	58922.50
115932	00125E	550 N	59407.39	58916.44
120114	00125E	575 N	59410.37	58920.33
120156	00125E	600 N	59408.36	58918.02

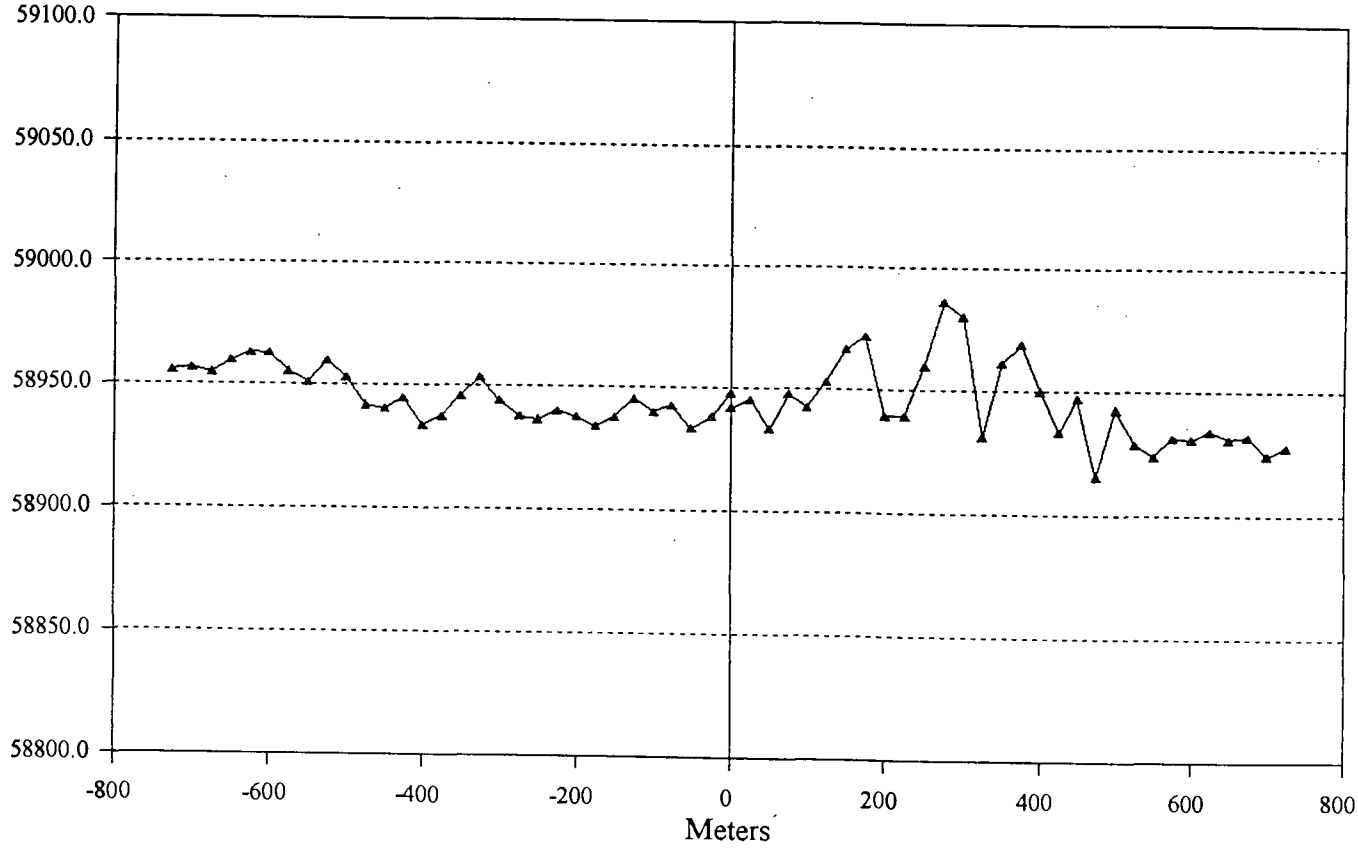
Anomaly 19 Mag Profile

Line 205N



Anomaly 19 Mag Profile

Line 0E



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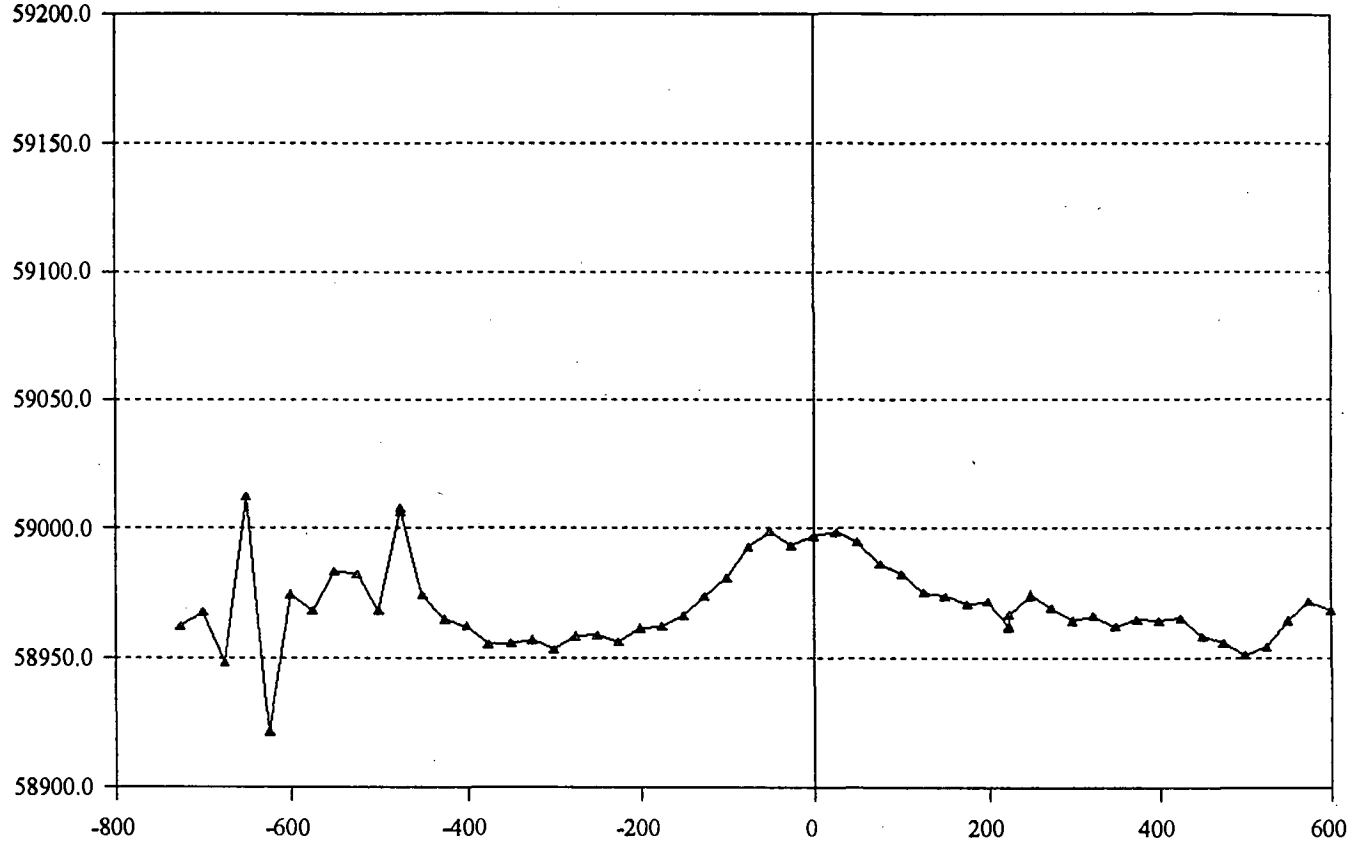
Anomaly 19

time	line	station	field nT	corrected field nT	time	line	station	field nT	corrected field nT
152632	00205N	-750 W	59430.85	58941.38	133108	00000E	-725 S	59442.20	58955.66
152608	00205N	-725 W	59431.00	58941.76	133014	00000E	-700 S	59432.23	58956.43
152532	00205N	-700 W	59430.16	58941.77	132926	00000E	-675 S	59425.45	58954.71
152456	00205N	-675 W	59427.85	58940.27	132838	00000E	-650 S	59436.72	58959.49
152420	00205N	-650 W	59428.18	58940.68	132750	00000E	-625 S	59443.21	58962.71
152344	00205N	-625 W	59427.85	58939.00	132702	00000E	-600 S	59442.40	58962.50
152302	00205N	-600 W	59430.30	58939.47	132620	00000E	-575 S	59435.89	58955.18
152232	00205N	-575 W	59433.01	58941.20	132532	00000E	-550 S	59429.58	58950.80
152156	00205N	-550 W	59429.36	58937.05	132450	00000E	-525 S	59436.66	58959.57
152126	00205N	-525 W	59432.75	58940.99	132402	00000E	-500 S	59429.16	58952.68
152044	00205N	-500 W	59433.80	58943.79	132320	00000E	-475 S	59418.20	58941.53
152008	00205N	-475 W	59429.76	58941.04	132232	00000E	-450 S	59416.46	58940.13
151920	00205N	-450 W	59428.55	58941.65	132144	00000E	-425 S	59419.81	58944.38
151844	00205N	-425 W	59430.71	58944.69	132050	00000E	-400 S	59411.48	58933.57
151808	00205N	-400 W	59423.50	58938.46	132008	00000E	-375 S	59416.15	58937.28
151732	00205N	-375 W	59424.41	58939.84	131926	00000E	-350 S	59423.93	58945.65
151702	00205N	-350 W	59422.69	58939.19	131844	00000E	-325 S	59430.84	58953.40
151632	00205N	-325 W	59419.52	58936.81	131802	00000E	-300 S	59419.94	58943.66
151602	00205N	-300 W	59414.58	58931.97	131714	00000E	-275 S	59414.95	58937.36
151526	00205N	-275 W	59421.31	58937.84	131626	00000E	-250 S	59415.01	58936.31
151450	00205N	-250 W	59417.64	58932.09	131526	00000E	-225 S	59415.67	58940.01
151426	00205N	-225 W	59431.42	58943.94	131426	00000E	-200 S	59412.54	58937.31
151350	00205N	-200 W	59432.76	58942.91	131332	00000E	-175 S	59408.20	58933.68
151314	00205N	-175 W	59429.89	58939.77	131244	00000E	-150 S	59409.22	58937.60
151244	00205N	-150 W	59427.58	58939.14	131150	00000E	-125 S	59414.26	58945.21
151208	00205N	-125 W	59430.31	58944.58	131050	00000E	-100 S	59410.87	58940.00
151138	00205N	-100 W	59429.25	58945.82	130944	00000E	-75 S	59416.82	58942.30
151102	00205N	-75 W	59432.92	58950.77	130838	00000E	-50 S	59413.40	58933.41
151032	00205N	-50 W	59422.95	58941.61	130738	00000E	-25 S	59411.59	58938.00
151002	00205N	-25 W	59419.10	58937.18	130250	00000E	0 N	59423.78	58947.93
150920	00205N	0 W	59424.09	58941.20	134608	00000E	0 N	59420.41	58941.81
144202	00205N	0 E	59409.52	58938.11	134638	00000E	25 N	59424.87	58945.13
144232	00205N	25 E	59415.47	58940.27	134732	00000E	50 N	59413.44	58933.28
144314	00205N	50 E	59408.24	58928.42	134826	00000E	75 N	59426.76	58947.30
144350	00205N	75 E	59414.07	58931.82	134914	00000E	100 N	59421.20	58942.34
144432	00205N	100 E	59418.21	58934.47	135002	00000E	125 N	59432.09	58952.87
144508	00205N	125 E	59414.67	58930.31	135056	00000E	150 N	59445.70	58966.21
144550	00205N	150 E	59416.47	58930.16	135208	00000E	175 N	59453.22	58971.58
144626	00205N	175 E	59421.10	58931.76	135326	00000E	200 N	59424.89	58939.24
144714	00205N	200 E	59430.93	58936.63	135438	00000E	225 N	59425.29	58939.16
144750	00205N	225 E	59433.57	58937.39	135532	00000E	250 N	59445.69	58959.56
144832	00205N	250 E	59441.81	58945.30	135632	00000E	275 N	59470.19	58986.17
144902	00205N	275 E	59439.56	58943.25	135738	00000E	300 N	59464.22	58980.38
144938	00205N	300 E	59434.44	58937.68	135826	00000E	325 N	59417.16	58931.38
145014	00205N	325 E	59435.24	58936.38	135938	00000E	350 N	59445.44	58961.15
145056	00205N	350 E	59439.86	58939.90	140044	00000E	375 N	59452.06	58968.96
145132	00205N	375 E	59436.22	58936.78	140138	00000E	400 N	59432.42	58949.78
145202	00205N	400 E	59430.79	58931.92	140232	00000E	425 N	59417.14	58933.34
145238	00205N	425 E	59427.79	58929.33	140332	00000E	450 N	59430.93	58946.87
145314	00205N	450 E	59427.19	58929.05	140426	00000E	475 N	59401.55	58915.48
145344	00205N	475 E	59429.60	58931.94	140526	00000E	500 N	59428.13	58942.73
145420	00205N	500 E	59426.77	58929.15	140626	00000E	525 N	59414.98	58928.84
145456	00205N	525 E	59426.23	58929.46	140744	00000E	550 N	59411.85	58924.05
145532	00205N	550 E	59425.70	58929.63	140902	00000E	575 N	59420.92	58931.40
145614	00205N	575 E	59426.30	58931.19	141002	00000E	600 N	59418.32	58930.56
145650	00205N	600 E	59425.07	58930.63	141108	00000E	625 N	59421.11	58934.09
145720	00205N	625 E	59425.77	58931.51	141214	00000E	650 N	59414.41	58930.91
145750	00205N	650 E	59424.41	58930.57	141320	00000E	675 N	59412.86	58932.04
145820	00205N	675 E	59422.94	58928.88	141426	00000E	700 N	59404.51	58924.56
145850	00205N	700 E	59422.13	58927.76	141532	00000E	725 N	59408.84	58927.65

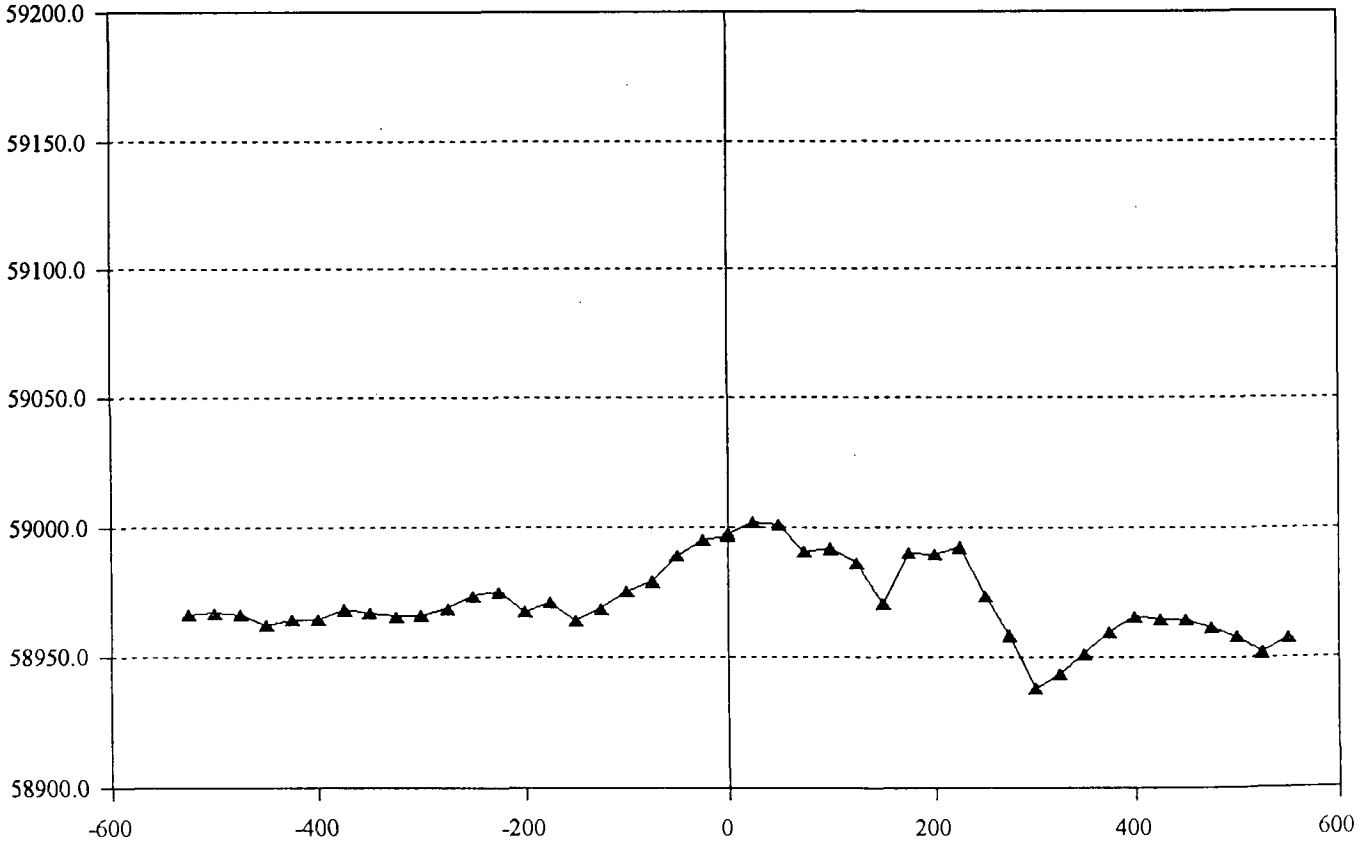
Anomaly 20 Mag Profile

Line 0N



Anomaly 20 Mag Profile

Line 0E



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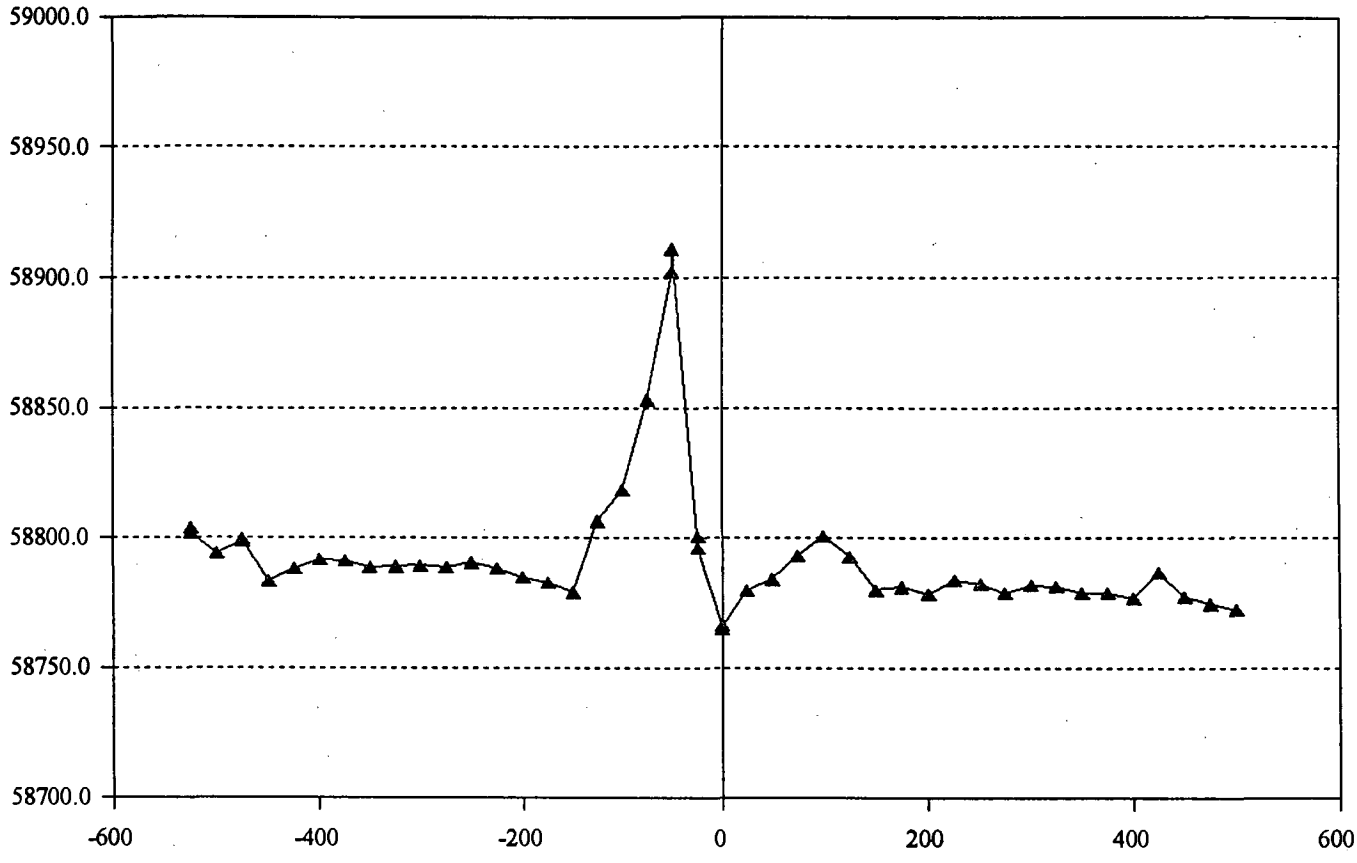
Anomaly 20

time	line	station	field nT	corrected field nT
132356	00000E	-500 S	59454.40	58967.06
132126	00000E	-475 S	59453.95	58966.45
131920	00000E	-450 S	59452.84	58962.48
131756	00000E	-425 S	59453.85	58964.50
131650	00000E	-400 S	59449.76	58964.22
131538	00000E	-375 S	59453.31	58968.23
131356	00000E	-350 S	59454.59	58966.77
131150	00000E	-325 S	59452.95	58965.68
131008	00000E	-300 S	59453.55	58965.97
130814	00000E	-275 S	59456.01	58968.51
130650	00000E	-250 S	59460.21	58973.65
130532	00000E	-225 S	59463.06	58975.07
130338	00000E	-200 S	59457.58	58967.45
130144	00000E	-175 S	59459.35	58970.65
130026	00000E	-150 S	59451.26	58963.97
125926	00000E	-125 S	59456.42	58968.59
125808	00000E	-100 S	59463.26	58975.20
125708	00000E	-75 S	59466.69	58979.19
125608	00000E	-50 S	59475.83	58989.36
125508	00000E	-25 S	59481.68	58995.15
120438	00000E	0 N	59483.00	58996.57
125350	00000E	0 N	59485.42	58997.88
120520	00000E	25 N	59489.06	59002.21
120644	00000E	50 N	59488.16	59001.29
120802	00000E	75 N	59477.48	58990.87
120908	00000E	100 N	59477.85	58992.02
121026	00000E	125 N	59472.12	58986.55
121138	00000E	150 N	59456.76	58970.52
121250	00000E	175 N	59476.82	58990.38
121402	00000E	200 N	59476.63	58989.62
121508	00000E	225 N	59479.57	58992.47
121608	00000E	250 N	59461.02	58973.52
121756	00000E	275 N	59444.78	58958.17
121914	00000E	300 N	59425.97	58938.08
122008	00000E	325 N	59429.63	58943.44
122108	00000E	350 N	59435.84	58951.11
122214	00000E	375 N	59444.77	58959.33
122338	00000E	400 N	59452.33	58965.61
122514	00000E	425 N	59452.55	58964.40
122620	00000E	450 N	59452.00	58964.30
122720	00000E	475 N	59449.00	58961.33
122844	00000E	500 N	59446.11	58957.98
122956	00000E	525 N	59439.94	58951.81
123038	00000E	550 N	59445.47	58957.35
113608	00000N	-725 W	59447.37	58962.47
113526	00000N	-700 W	59452.43	58967.65
113456	00000N	-675 W	59432.88	58948.39
113414	00000N	-650 W	59497.03	59012.50
113102	00000N	-625 W	59406.85	58921.43
113138	00000N	-625 W	59406.35	58921.01
113026	00000N	-600 W	59459.74	58974.69
112920	00000N	-575 W	59452.74	58968.34
112814	00000N	-550 W	59466.71	58983.34
112726	00000N	-525 W	59465.22	58982.37
112626	00000N	-500 W	59451.66	58968.38
112502	00000N	-475 W	59490.72	59006.93
112544	00000N	-475 W	59490.88	59008.03
112402	00000N	-450 W	59459.08	58974.20
112256	00000N	-425 W	59450.30	58965.01
112138	00000N	-400 W	59447.29	58962.24
111926	00000N	-375 W	59441.21	58955.51
111726	00000N	-350 W	59443.57	58955.63
111620	00000N	-325 W	59443.75	58957.06
111514	00000N	-300 W	59438.83	58953.28
111408	00000N	-275 W	59441.20	58958.46
111256	00000N	-250 W	59441.53	58958.87
111150	00000N	-225 W	59439.95	58956.18
111050	00000N	-200 W	59445.62	58961.53
110932	00000N	-175 W	59447.36	58962.29
110808	00000N	-150 W	59451.14	58966.25
110708	00000N	-125 W	59459.80	58973.71
110514	00000N	-100 W	59467.77	58980.93
110626	00000N	-100 W	59466.81	58980.62
110408	00000N	-75 W	59480.25	58993.13
110214	00000N	-50 W	59486.35	58999.02
110102	00000N	-25 W	59479.20	58993.63
105808	00000N	0 E	59482.40	58997.01
105650	00000N	25 E	59485.02	58998.53
105550	00000N	50 E	59481.03	58994.90
105438	00000N	75 E	59471.53	58986.43
105314	00000N	100 E	59467.46	58982.40
105150	00000N	125 E	59460.57	58975.23
105056	00000N	150 E	59459.26	58973.86
105002	00000N	175 E	59457.51	58971.01
104850	00000N	200 E	59458.82	58971.72
101656	00000N	225 E	59450.93	58962.28
101620	00000N	225 E	59450.50	58961.79
104656	00000N	225 E	59454.22	58966.67
101820	00000N	250 E	59462.88	58973.89
101732	00000N	250 E	59462.77	58974.67
101850	00000N	275 E	59458.08	58969.11
101956	00000N	300 E	59453.56	58964.66
102102	00000N	325 E	59454.06	58966.21
102150	00000N	350 E	59450.02	58962.30
102238	00000N	375 E	59451.95	58964.72
102338	00000N	400 E	59450.19	58964.30
102426	00000N	425 E	59450.12	58965.37
102526	00000N	450 E	59442.28	58958.31
102626	00000N	475 E	59443.36	58955.95
102750	00000N	500 E	59444.66	58951.19
102926	00000N	525 E	59446.77	58954.44
103120	00000N	550 E	59453.16	58964.68
103314	00000N	575 E	59459.81	58971.86
103408	00000N	600 E	59457.21	58968.51

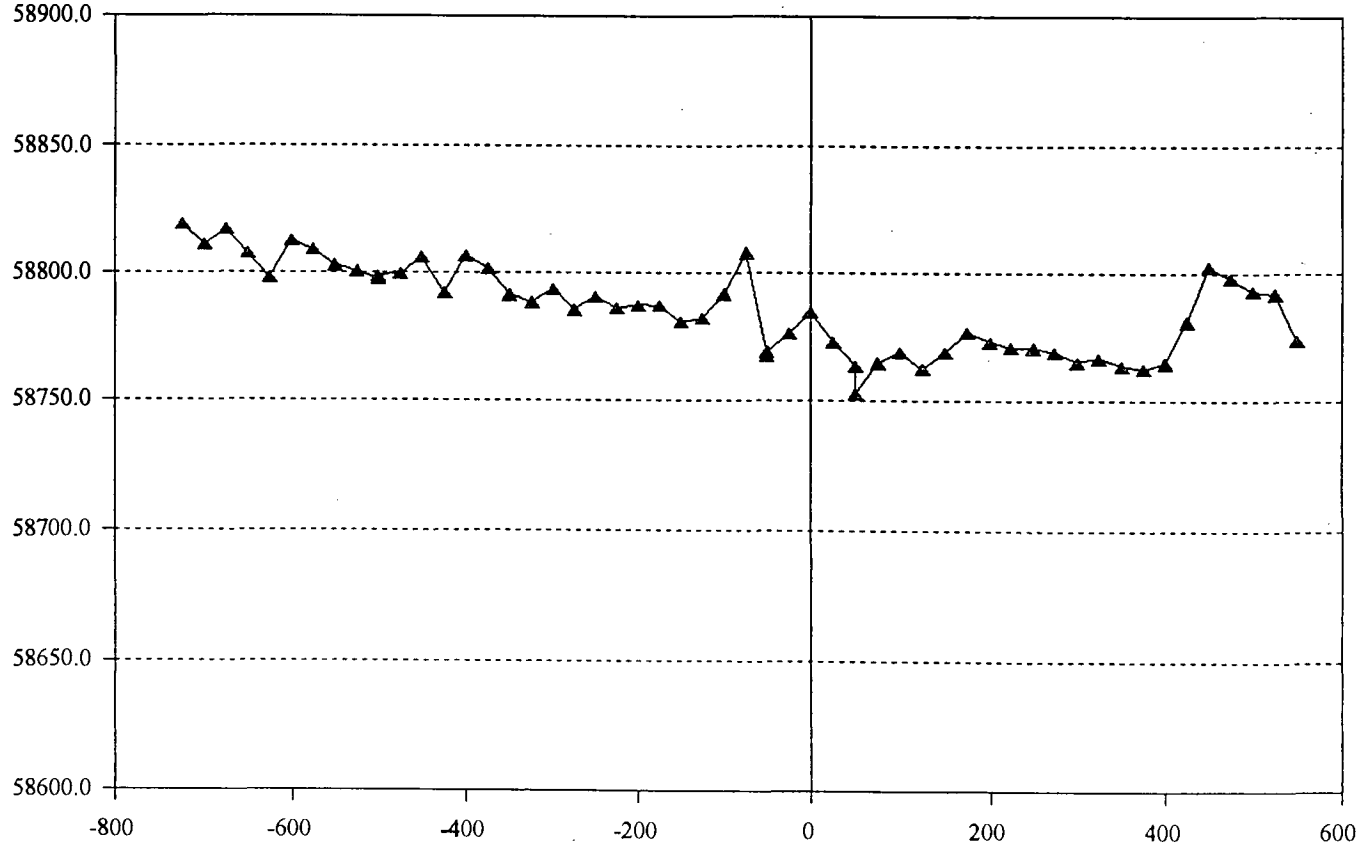
Anomaly 26 Mag Profile

Line 50S



Anomaly 26 Mag Profile

Line 0E



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time	line	station	field nT	corrected field nT	time	line	station	field nT	corrected field nT
114308	00000E	-725 S	59304.04	58819.11	124850	00000E	450 N	59283.83	58802.57
114208	00000E	-700 S	59295.66	58811.11	125032	00000E	475 N	59277.97	58798.19
114114	00000E	-675 S	59300.48	58816.96	125144	00000E	500 N	59273.26	58793.37
113926	00000E	-650 S	59291.81	58807.41	125226	00000E	525 N	59271.95	58791.93
113802	00000E	-625 S	59283.74	58798.25	125344	00000E	550 N	59252.34	58773.86
113556	00000E	-600 S	59298.15	58812.74	144156	00050S	-525 W	59287.71	58803.95
113432	00000E	-575 S	59294.64	58809.07	144232	00050S	-525 W	59285.82	58801.75
113344	00000E	-550 S	59287.89	58802.97	144044	00050S	-500 W	59277.34	58794.14
113302	00000E	-525 S	59286.25	58800.57	143932	00050S	-475 W	59282.47	58798.79
114826	00000E	-500 S	59280.92	58797.60	144008	00050S	-475 W	59283.06	58799.72
113150	00000E	-500 S	59285.10	58798.78	143756	00050S	-450 W	59266.42	58783.47
114956	00000E	-475 S	59283.04	58799.44	143638	00050S	-425 W	59270.97	58788.11
115038	00000E	-450 S	59290.02	58805.92	143538	00050S	-400 W	59274.76	58791.94
115114	00000E	-425 S	59276.22	58792.19	143420	00050S	-375 W	59273.87	58791.17
115202	00000E	-400 S	59289.88	58806.77	143320	00050S	-350 W	59271.93	58788.58
115250	00000E	-375 S	59285.04	58801.59	143226	00050S	-325 W	59272.83	58789.08
115338	00000E	-350 S	59275.80	58791.60	143144	00050S	-300 W	59273.08	58789.48
115438	00000E	-325 S	59272.58	58788.48	143056	00050S	-275 W	59271.59	58788.66
115532	00000E	-300 S	59277.91	58793.86	143002	00050S	-250 W	59273.25	58790.50
115656	00000E	-275 S	59269.29	58785.53	142908	00050S	-225 W	59271.14	58788.49
115814	00000E	-250 S	59274.58	58790.88	142756	00050S	-200 W	59266.50	58785.04
115932	00000E	-225 S	59270.39	58786.47	142632	00050S	-175 W	59264.15	58782.80
120044	00000E	-200 S	59271.54	58787.47	142514	00050S	-150 W	59260.67	58779.21
120144	00000E	-175 S	59270.73	58787.22	142402	00050S	-125 W	59288.22	58806.47
120320	00000E	-150 S	59265.05	58780.72	142238	00050S	-100 W	59301.00	58818.78
120444	00000E	-125 S	59267.29	58782.23	142132	00050S	-75 W	59335.57	58853.30
120556	00000E	-100 S	59275.50	58792.03	141938	00050S	-50 W	59385.89	58902.48
120720	00000E	-75 S	59291.27	58807.83	142032	00050S	-50 W	59394.32	58911.31
121038	00000E	-50 S	59250.36	58767.58	141850	00050S	-25 W	59283.91	58800.84
120832	00000E	-50 S	59252.84	58769.13	141750	00050S	-25 W	59280.58	58796.39
121126	00000E	-25 S	59259.02	58776.23	132620	00050S	0 E	59243.57	58765.10
121302	00000E	0 S	59268.15	58784.67	141650	00050S	0 E	59251.05	58766.35
121556	00000E	25 N	59256.18	58773.12	132814	00050S	25 E	59257.46	58779.71
121944	00000E	50 N	59245.91	58763.50	132708	00050S	25 E	59257.91	58779.89
121838	00000E	50 N	59246.47	58763.53	132902	00050S	50 E	59262.37	58784.13
121756	00000E	50 N	59235.71	58752.27	133032	00050S	75 E	59271.96	58793.29
122056	00000E	75 N	59247.14	58764.57	133202	00050S	100 E	59279.34	58800.74
122220	00000E	100 N	59250.82	58768.77	133356	00050S	125 E	59271.02	58792.85
122332	00000E	125 N	59244.04	58762.21	133520	00050S	150 E	59258.51	58780.10
122456	00000E	150 N	59251.28	58769.05	133644	00050S	175 E	59259.04	58781.17
122714	00000E	175 N	59258.04	58776.96	133802	00050S	200 E	59256.16	58778.56
122914	00000E	200 N	59254.48	58773.11	133926	00050S	225 E	59261.17	58783.95
123056	00000E	225 N	59251.56	58770.97	134038	00050S	250 E	59259.63	58782.48
123226	00000E	250 N	59251.20	58770.74	134150	00050S	275 E	59256.14	58779.00
123408	00000E	275 N	59248.20	58768.91	134320	00050S	300 E	59259.69	58781.71
123514	00000E	300 N	59244.85	58764.99	134438	00050S	325 E	59258.19	58781.20
123620	00000E	325 N	59245.95	58766.49	134550	00050S	350 E	59256.35	58778.82
123708	00000E	350 N	59241.67	58763.52	134720	00050S	375 E	59258.07	58778.93
124450	00000E	375 N	59241.58	58762.18	134838	00050S	400 E	59255.46	58776.73
124614	00000E	400 N	59244.31	58764.65	135214	00050S	425 E	59266.18	58786.73
124808	00000E	425 N	59261.68	58780.92	135326	00050S	450 E	59255.70	58777.37
124726	00000E	425 N	59260.79	58780.87	135456	00050S	475 E	59254.20	58774.64
					135614	00050S	500 E	59251.17	58772.22

488000 E 490000 E 492000 E 494000 E 496000 E 498000 E 500000 E 502000 E

6236000 N 6234000 N 6232000 N 6230000 N 6228000 N 6226000 N 6224000 N 6222000 N

686

Wesley Creek

Dunes

Reserve

St Isidore

Auto Wrecker

Square: Grid North
Star: True North
Arrow: Magnetic North

Angles presented are approximate mean deviations for centre of NTS sheet.
Use diagram for reference only.

Grid North - True North : 0.2°
Grid North - Magnetic North : 24.0°
Annual change : -0.20°

TOTAL FIELD MAGNETICS

Total field magnetic intensity contour data, measured by a cesium high sensitivity magnetometer at an average sensor elevation of 45m, and corrected for diurnal variation.

Map contours are in nanoTeslas, and are multiples of those listed below:

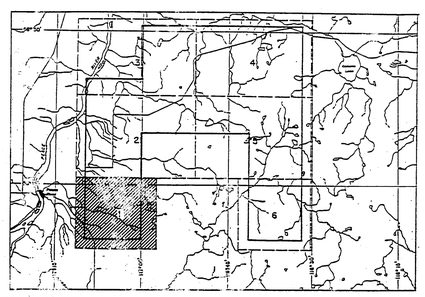
- 2 nT
- 10 nT
- 50 nT
- 250 nT
- 1000 nT

FLIGHT PATH

Navigation and flight path recovery was conducted using a Global Positioning System (GPS) satellite navigation system.

Lines were flown at an azimuth of 90 - 270°, with an average line spacing of 200m.

Average helicopter-terrain clearance of 60m was monitored by radar and barometric altimeters.



HORSESHOE GOLD MINING INC.

TOTAL FIELD MAGNETICS

PEACE RIVER AREA
NORTHERN ALBERTA

19950006

SCALE 1:20 000

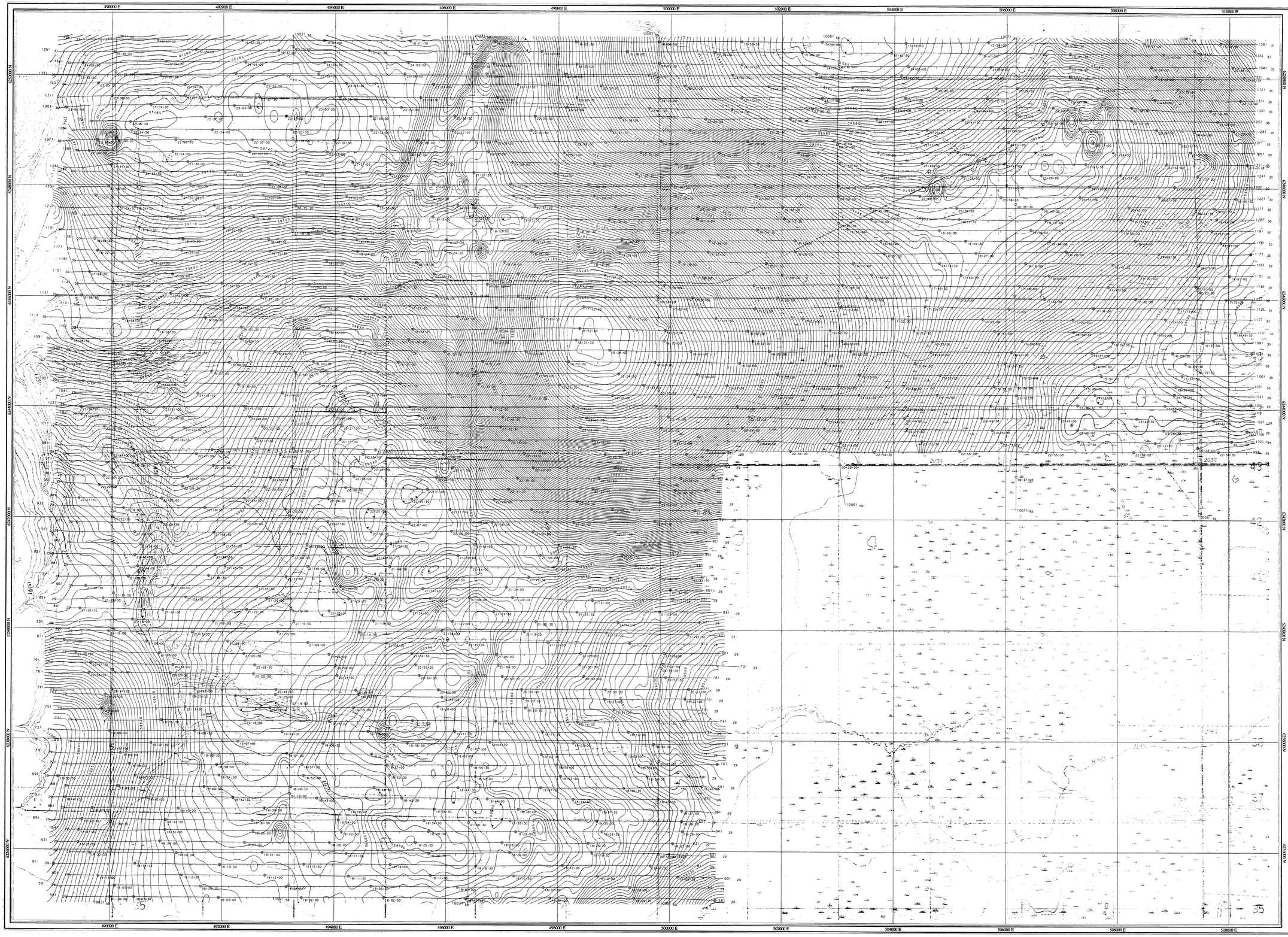
500 0 200 400 1000 2000 metres

GEONEX AERODAT

Date Flown : MARCH 1994

NTS : 84O/8,6,2,7

Project : J9411 Map Ref : 1 - 2



Square: Grid North
Star: True North
Arrow: Magnetic North

Angles presented are approximate mean deviations for centre of NTS sheet. Use diagram for reference only.

Grid North - True North : 0.2°
Grid North - Magnetic North : 24.0°
Annual change : -0.20°

TOTAL FIELD MAGNETICS

Total field magnetic intensity contour data, measured by a cesium high sensitivity magnetometer at an average sensor elevation of 45m, and corrected for diurnal variation.

Map contours are in nanoTeslas, and are multiples of those listed below:

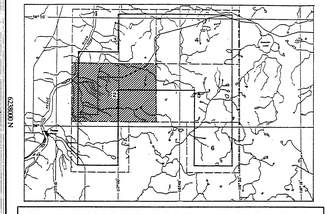
- 2 nT
- 10 nT
- 50 nT
- 250 nT
- 1000 nT

FLIGHT PATH

Navigation and flight path recovery was conducted using a Global Positioning System (GPS) satellite navigation system.

Lines were flown at an azimuth of 90 - 270°, with an average line spacing of 200m.

Average helicopter-terrain clearance of 60m was monitored by radar and barometric altimeters.



HORSESHOE GOLD MINING INC.

TOTAL FIELD MAGNETICS

PEACE RIVER AREA

NORTHERN ALBERTA

SCALE 1:20 000

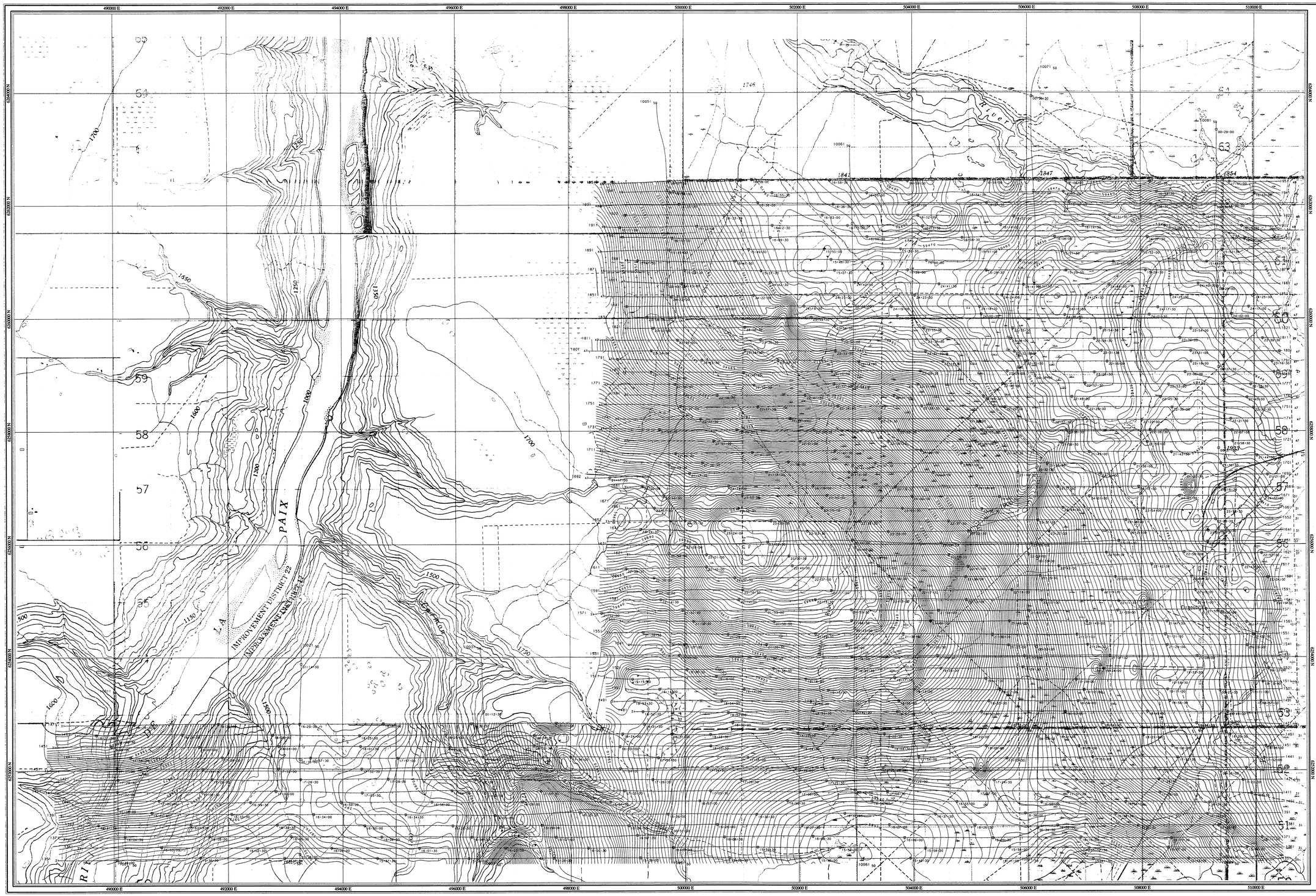
500 0 300 600 1000 2000 Metres

GEONEX AERODAT

Date Flown : MARCH 1994

NTS : 84C/6,7

Project : JG4111 Map Ref : 2 -2



Square: Grid North
Star: True North
Arrow: Magnetic North

Angles presented are approximate mean deviations for centre of NTS sheet. Use diagram for reference only.

Grid North - True North : 0.2°
Grid North - Magnetic North : 24.0°
Annual change : -0.20°

TOTAL FIELD MAGNETICS

Total field magnetic intensity contour data, measured by a cesium high sensitivity magnetometer at an average sensor elevation of 45m, and corrected for diurnal variation.

Map contours are in nanoTeslas, and are multiples of those listed below:

———	2 nT
———	10 nT
———	50 nT
———	250 nT
———	1000 nT

FLIGHT PATH

Navigation and flight path recovery was conducted using a Global Positioning System (GPS) satellite navigation system.

Lines were flown at an azimuth of 90 - 270°, with an average line spacing of 200m.

Average helicopter-terrain clearance of 60m was monitored by radar and barometric altimeters.

HORSESHOE GOLD MINING INC.

TOTAL FIELD MAGNETICS

PEACE RIVER AREA

NORTHERN ALBERTA

SCALE 1:20 000

500 0 200 400 1000 2000 metres

GEONEX AERODAT

Date Flown : MARCH 1994

NTS : 84C/6,7,10,11

Project : J94111 Map Ref : 3 -2

510000 E 512000 E 514000 E 516000 E 518000 E 520000 E 522000 E 524000 E 526000 E 528000 E 530000 E

6560000 N 6550000 N 6540000 N 6530000 N 6520000 N

Square: Grid North
Star: True North
Arrow: Magnetic North

Angles presented are approximate mean deviations for centre of NTS sheet. Use diagram for reference only.

Grid North - True North : 0.2°
Grid North - Magnetic North : 24.0°
Annual change : -0.20°

TOTAL FIELD MAGNETICS

Total field magnetic intensity contour data, measured by a cesium high sensitivity magnetometer at an average sensor elevation of 45m, and corrected for diurnal variation.

Map contours are in nanoTeslas, and are multiples of those listed below:

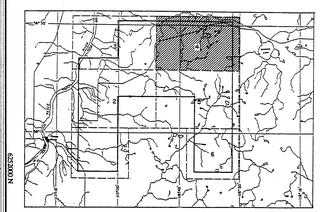
- 2 nT
- 10 nT
- 50 nT
- 250 nT
- 1000 nT

FLIGHT PATH

Navigation and flight path recovery was conducted using a Global Positioning System (GPS) satellite navigation system.

Lines were flown at an azimuth of 90 - 270°, with an average line spacing of 200m.

Average helicopter terrain clearance of 60m was monitored by radar and barometric altimeters.



HORSESHOE GOLD MINING INC.

TOTAL FIELD MAGNETICS

PEACE RIVER AREA

NORTHERN ALBERTA

SCALE 1:20 000

500 0 500 1000 2000 metres

GEONEX AERODAT

Date Flown : MARCH 1994

NTS : 84C/7,10

Project : J94111 Map Ref : 4 -2

Square: Grid North
Star: True North
Arrow: Magnetic North

Angles presented are approximate mean deviations for centre of NTS sheet. Use diagram for reference only.

Grid North - True North : 0.2°
Grid North - Magnetic North : 24.0°
Annual change : -0.20°

TOTAL FIELD MAGNETICS

Total field magnetic intensity contour data, measured by a cesium high sensitivity magnetometer at an average sensor elevation of 45m, and corrected for diurnal variation.

Map contours are in nanoTeslas, and are multiples of those listed below:

2 nT
10 nT
50 nT
250 nT
1000 nT

FLIGHT PATH

Navigation and flight path recovery was conducted using a Global Positioning System (GPS) satellite navigation system.

Lines were flown at an azimuth of 90 - 270°, with an average line spacing of 200m.

Average helicopter-terrain clearance of 60m was monitored by radar and barometric altimeters.

HORSESHOE GOLD MINING INC.

TOTAL FIELD MAGNETICS

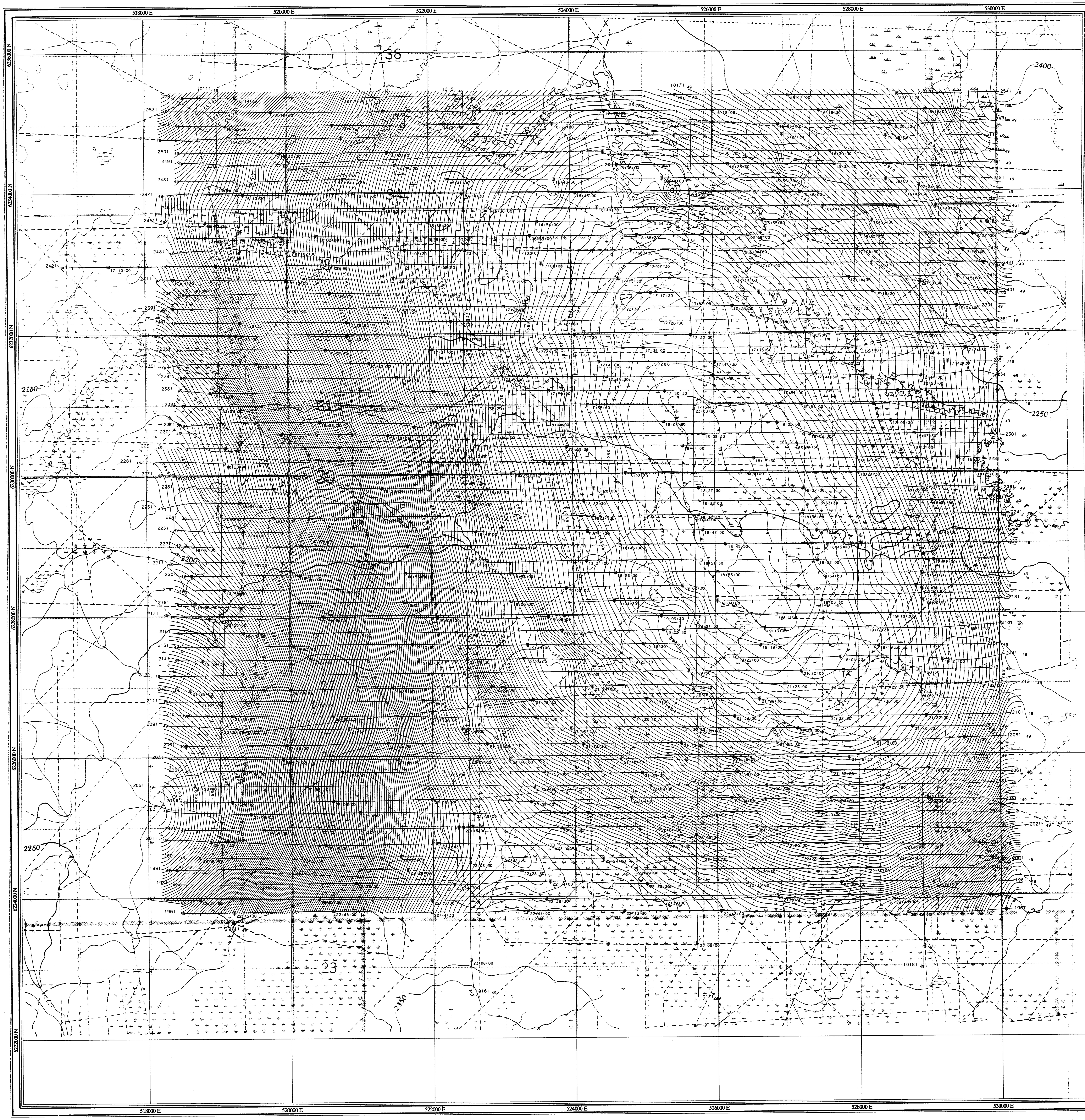
PEACE RIVER AREA
NORTHERN ALBERTA

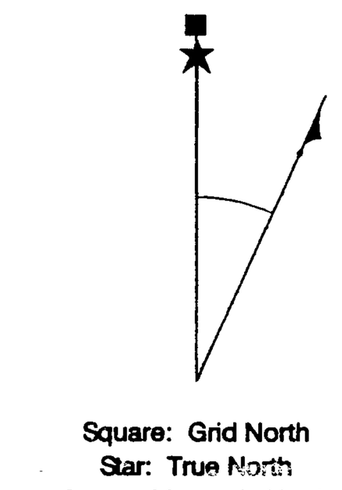
SCALE 1:20 000

500 0 200 400 1000 2000 metres

GEONEX AERODAT

Date Flown : MARCH 1994
NTS : 84C/5
Project : J94111 Map Ref : 5-2





Square: Grid North
Star: True North
Arrow: Magnetic North

Angles presented are approximate mean deviations for centre of NTS sheet. Use diagram for reference only.

Grid North - True North : 0.2°
Grid North - Magnetic North : 24.0°
Annual change : -0.20°

TOTAL FIELD MAGNETICS

Total field magnetic intensity contour data, measured by a cesium high sensitivity magnetometer at an average sensor elevation of 45m, and corrected for diurnal variation.

Map contours are in nanoTeslas, and are multiples of those listed below:

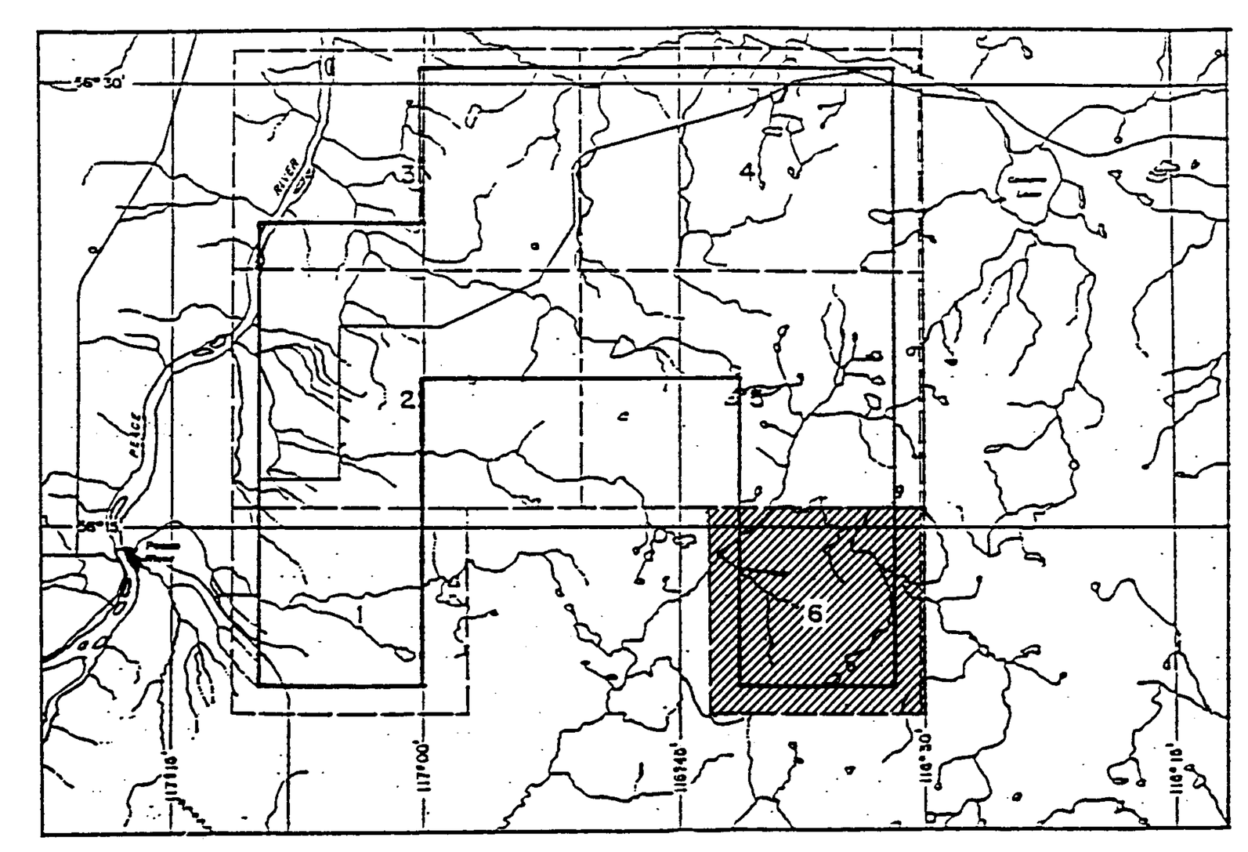
2 nT
10 nT
50 nT
250 nT
1000 nT

FLIGHT PATH

Navigation and flight path recovery was conducted using a Global Positioning System (GPS) satellite navigation system.

Lines were flown at an azimuth of 90 - 270°, with an average line spacing of 200m.

Average helicopter-terrain clearance of 60m was monitored by radar and barometric altimeters.



HORSESHOE GOLD MINING INC.

TOTAL FIELD MAGNETICS

PEACE RIVER AREA

NORTHERN ALBERTA

SCALE 1:20 000

500 0 200 400 1000 2000 metres

GEONEX AERODAT

Date Flown : MARCH 1994

NTS : 84C/2,7

Project : J94111 Map Ref : 6 -2