

MQ Report #108  
 Ref: RM2002

MINISTRY OF ENERGY, MINES  
 AND PETROLEUM RESOURCES  
 Rec'd FEB 7 1986  
 SUBJECT \_\_\_\_\_  
 FILE \_\_\_\_\_  
 VANCOUVER, B.C.

QUEEN AND BORIN CLAIMS

GEOPHYSICS

Clinton Mining Division

N.T.S. 92 0/7E ~~and B~~

Latitude 51°<sup>21-5'</sup> Longitude 122°<sup>32'</sup>

UTM 5690000m.N 533000m.E

**GEOLOGICAL BRANCH  
 ASSESSMENT REPORT**

By

A.W. Gurlay

of

OWNER: MineQuest Exploration Associates Limited

OPERATOR: GoldQuest I Limited Partnership

**14,360**

**FILMED**

<u>Claim Name</u>	<u>Record No.</u>	<u>Units</u>	<u>Date Recorded</u>
Borin I	1362	14	March 21, 1983
Borin II	1363	14	March 21, 1983
Queen 4	1366	20	March 21, 1983
Queen 5	1367	10	March 21, 1983
Queen VI	1409	20	May 25, 1983
Reborin	1858	14	November 16, 1984

January, 1986

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1.0

INTRODUCTION

The QUEEN-BORIN claims were staked on the basis of anomalous quantities of gold and arsenic in heavy mineral samples taken from stream sediments. Work in 1983, directed at finding the source of gold and arsenic, consisted of follow-up silt sampling, contour soil sampling, and prospecting. Areas of anomalous gold and arsenic were identified on the BORIN claims.

Work carried out in 1985, the subject of this report, was directed at locating geological structures using VLF-EM.

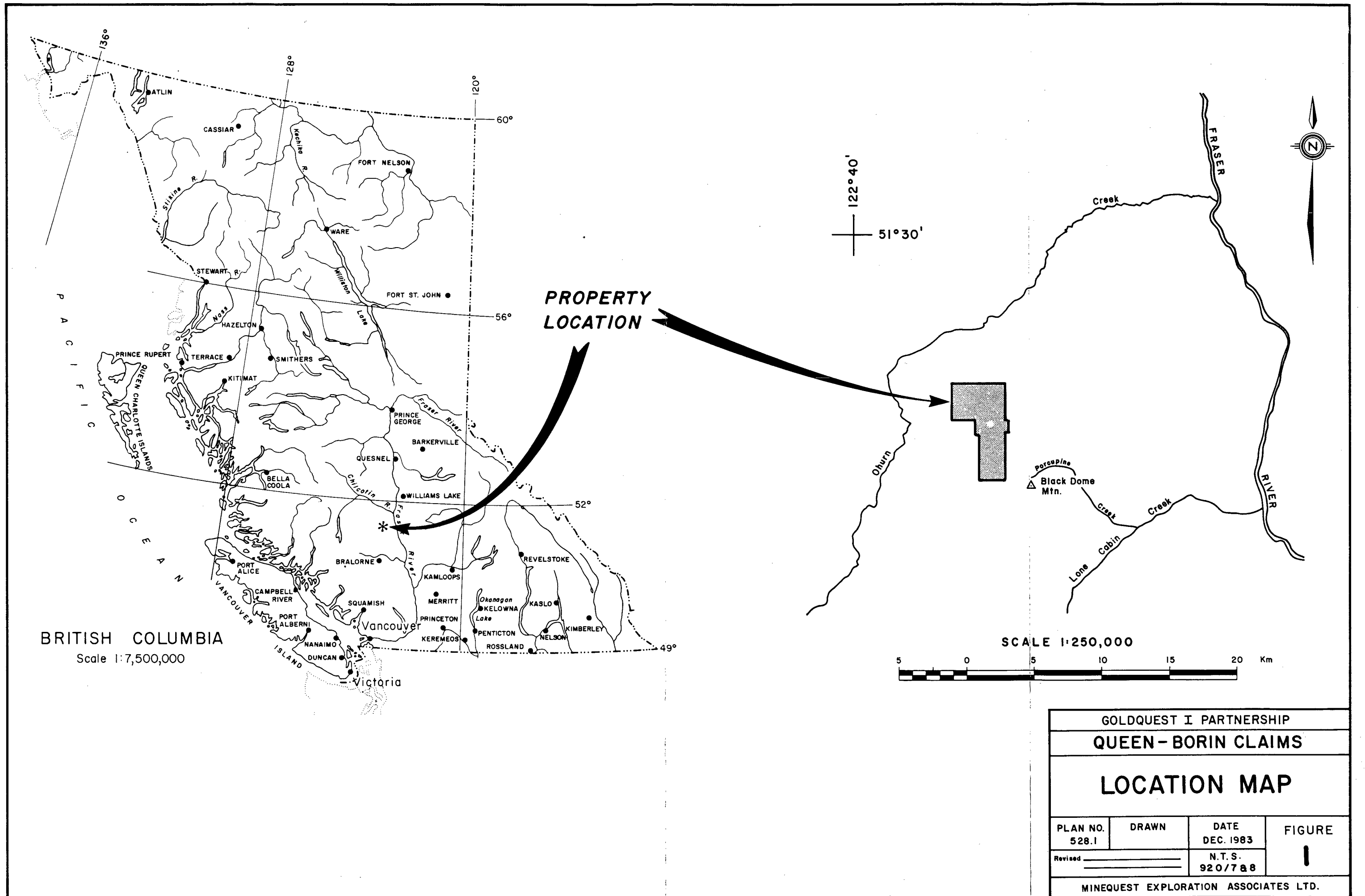
2.0

LOCATION, ACCESS AND TOPOGRAPHY

The QUEEN-BORIN claims are located in south central British Columbia, 230km north-northeast of Vancouver, and 35km southwest of Gang Ranch on the northern flanks of Black Dome Mountain (Figure 1).

The property may be accessed by helicopter from Williams Lake, or by logging road from Gang Ranch to Black Dome Mountain, three kilometres south of the property.

The claims lie at the northern edge of the Camelsfoot Range on a gentle north facing slope descending from Black Dome Mountain into the Churn Creek Valley. East-west trending creeks dissect the slope. Elevation ranges from 1550m to 2000m.



**PROPERTY  
LOCATION**

**BRITISH COLUMBIA**  
Scale 1:7,500,000

**SCALE 1:250,000**

GOLDQUEST I PARTNERSHIP			
QUEEN-BORIN CLAIMS			
<b>LOCATION MAP</b>			
PLAN NO. 528.1	DRAWN	DATE DEC. 1983	FIGURE 1
Revised _____		N.T.S. 920/788	
MINEQUEST EXPLORATION ASSOCIATES LTD.			

## 3.0

OWNERSHIP AND CLAIM STATUS

The claims listed below are held by MineQuest Exploration Associates Limited on behalf of GoldQuest I, a General Limited Partnership.

TABLE I  
CLAIM STATUS

<u>Claim Name</u>	<u>Record Number</u>	<u>No. of Units</u>	<u>Due date before submission of this report</u>
Borin <del>1</del> 1	1362	14	March 21, 1986
Borin <del>2</del> 2	1363	14	March 21, 1986
Queen 4	1366	20	March 21, 1988
Queen 5	1367	10	March 21, 1988
Queen VI	1409	20	May 25, 1988
Reborin	1858	14	Nov. 16, 1985

## 4.0

HISTORY AND PREVIOUS WORK

The QUEEN-BORIN claims border the north edge of the Black Dome property, presently under development by Consolidated Barrier Reef Resources. Gold-bearing veins were discovered on Black Dome Mountain in the late 1940's and serious exploration and development began in 1977. Heath Steele Mines Limited, a wholly owned subsidiary of Noranda Mines Ltd., funded exploration and development at Black Dome during 1982 and 1983 but elected to discontinue its involvement. Published reserves stand at 203,000 tons grading 0.79 oz./ton gold and 3.76 oz./ton silver, and production is scheduled to begin in April, 1986.

The QUEEN-BORIN claims were staked in 1983 by MineQuest Exploration Associates Ltd. The 1983 program consisted of silt sampling, soil sampling, and prospecting.

No lode mineral occurrences are known on the claims, but the following placer occurrences are reported:

Minfile No.: 92031  
 Previous Name: Borin Creek  
 Commodities: Au  
 Bibliography: BCDM MMAR 1966-259, 1967-297,  
 1968-291, 1969-376, 1970-484

Minfile No.: 92032  
 Previous Name: Fairless Creek  
 Commodities: Au  
 Bibliography: 1) GCNL #161, #58, #106, 1980  
 2) BCDM MMAR 1966-257, 1967-297,  
 1968-291, 1969-376, 1970-484

5.0

GEOLOGY

The region is underlain predominantly by Eocene rhyolites and rhyolitic pyroclastics with overlying Miocene sediments and olivine basalts. Upper Cretaceous sediments of the Kingsvale Group and Cretaceous intrusives are exposed where the Tertiary cover has been fully eroded. The Cretaceous sediments trend east to northeast dipping between 30° south to 30° north. The Tertiary flows trend north-south dipping east. Regional faulting is commonly north-northwest and east-northeast.

The QUEEN-BORIN claims are underlain predominantly by Miocene-Oligocene conglomerate, shale and sandstone. In the north half of the claim block the geology consists of Upper Cretaceous siltstone, greywacke and conglomerate overlain by Eocene rhyolitic flows and breccias.

6.0

WORK CARRIED OUT IN 1985

A reconnaissance VLF-EM survey was conducted between November 6 and 10, 1985. Five east-west lines were spaced 500 metres apart, with stations chained and flagged at 25 metre intervals. A total of 13 kilometres of survey were completed, using a Scintrex EM-16 VLF-EM unit, and Cutler, Maine as transmitter.

The VLF-EM survey was conducted by A.W. Gourlay with the assistance of A.R. Zuk.



7.0

RESULTS

Dipangle, Quadrature, and Fraser filtered dip angle were plotted and profiled at a scale of 1:10,000 (see Figure 2 and 3). Fraser filter values were derived using the standard formula. Dip angle profiles have defined three areas of different responses. An area of high resistivity in the south-central portion of the grid is separated from another resistivity high in the northeast corner by a distinct conductive unit with an incoherent response. The southern resisting high reflects an area of scattered basalt outcrop and the other responses may be due to variations in overburden thickness or conductivity of bedrock.

8.0

CONCLUSIONS

The VLF-EM survey has outlined a conductive zone separating two area of high resistivity but did not define any distinct geological structures. Further geophysical surveys and geological mapping are recommended to find the source of gold found in heavy mineral concentrates and silt sampling.

9.0

REFERENCES

Dawson, J.M., April, 1978, (Kerr, Dawson and Assoc. Ltd.)

Geology and Geochemistry Report on the Dome Claims, Clinton Mining Division, B.C.; for Barrier Reef Resources  
Assessment Report 6692

Dawson, J.M., November, 1979, (Kerr, Dawson and Assoc. Ltd.)

Report on Diamond Drilling on the Dome Claim Groups, Clinton Mining Division, B.C.; for Blackdome Exploration Ltd.  
Assessment Report 7512

The Northern Miner, 1984, Vol. 71, No. 34, pg. 1

Ridley, S.L., 1984

Queen-Borin Claims - Geochemistry and Prospecting

MineQuest Exploration Associates Ltd.,  
Report No. 44, Submitted as Assessment Report

Tipper, H.W., 1978

Taseko Lakes Geology  
GSC Open File 534

**APPENDIX I**

Statement of Qualification

STATEMENT OF QUALIFICATIONS

I, Andrew Gourlay, hereby certify that:

1. I am presently employed by MineQuest Exploration Associates Ltd. as Senior Geologist
2. I am a graduate of the University of British Columbia (B.Sc. Hons., 1977, in geology).
3. I am a Professional Geologist in good standing with the Association of Professional Engineers, Geologists and Geophysicists of Alberta, and a Fellow of the Geological Association of Canada.
4. I have practised my profession as geologist for 8 years.
5. The information used in this report is based on personal execution of the geophysical survey.

Signed

A circular professional seal for Andrew W. Gourlay, a Professional Geologist. The seal contains the text "PROFESSIONAL GEOLOGIST" around the top edge and "ANDREW W. GOURLAY" in the center. A signature is written over the seal.  
Andrew W. Gourlay

Dated at Vancouver, B.C.  
this 4th day of February, 1986

**APPENDIX II**  
Cost Statement

**COST STATEMENT**

**QUEEN-BORIN CLAIMS**

**April 1, 1985 to December 31, 1985**

Professional Fees (see Schedule I)	\$ 3,229.00
Temporary Staff (see Schedule I)	1,820.00
Casual Staff	749.93
M.Q. Rental Vehicle Charges	585.00
Vehicle Repairs and Maintenance	8.50
Fuels & Lubricants	179.31
Taxis, Parking	4.50
Meals, Accommodation	84.73
Freight	33.45
M.Q. Field Equipment Charges	144.00
Equipment Rentals	175.00
Groceries	236.49
Food & Accommodation, In Field	212.76
General Supplies	68.83
Telephone	81.75
Courier, Postage	27.60
Reprographics	311.79
Photocopies	3.55
Maps, Reports	18.98
Disbursement Over-Ride	144.37
 	<hr/>
TOTAL	\$ 8,119.54

SCHEDULE I

Professional Fees

R.V. Longe	1.5 hours	at \$ 80.00	\$ 120.00
A.W. Gourlay	5 days	at \$385.00	1,925.00
A.W. Gourlay	18.5 hours	at \$ 64.00	1,184.00
			<hr/>
			\$3,229.00
			<hr/> <hr/>

Temporary Fees

A. Zuk	5 days	at \$120.00	\$ 600.00
B. Griffiths	4 days	at \$120.00	480.00
P. McCarthy	4 days	at \$185.00	740.00
			<hr/>
			\$1,820.00
			<hr/> <hr/>

**APPENDIX III**

Statement of Exploration and Development





VANCOUVER  
NOV 15 1985  
VANCOUVER, B.C.

MINERAL ACT

STATEMENT OF EXPLORATION AND DEVELOPMENT

I. Andrew W. Gourlay (Name) 311 Water Street (Address) Vancouver, B.C. V6B 1B8 (Postal Code) 669-2251 (Telephone Number)
Agent for MineQuest Exploration Associates Ltd. (Name) 311 Water Street (Address) Vancouver, B.C. V6B 1B6 (Postal Code) 669-2251 (Telephone Number)
Valid subsisting F.M.C. No. GOURAW 274215 MINEXA 274213

STATE THAT

CHURN CREEK III GROUP:

1. I have done, or caused to be done, work on the King III, King IV, Borin I, Borin II, Mint IV, Reborin Claim(s)
Record No(s) 1364, 1365, 1362, 1363, 1371, 1858
Situate at 30km SW of Gang Ranch in the Clinton Mining Division,
to the value of at least 7,000.00 dollars. Work was done from the 1st day
of September 1985 to the 13th day of November 1985

2. The following work was done in the 12 months in which such work is required to be done:

[COMPLETE APPROPRIATE SECTION(S) A, B, C, D, FOLLOWING]

A. PHYSICAL (Trenches, open cuts, adits, pits, shafts, reclamation, and construction of roads and trails.)

(Give details as required by section 13 of regulations.)

Table with 2 columns: Description (under 'PHYSICAL') and COST. Includes a 'TOTAL PHYSICAL' row at the bottom.

I wish to apply \$ of physical work to the claims listed below.

(State number of years to be applied to each claim, its month of record, and identify each claim by name and record number.)

B. PROSPECTING (Details in report submitted as per section 9 of regulations.) (The itemized cost statement must be part of the report.)

Table with 2 columns: Description (under 'PROSPECTING') and COST.

I wish to apply \$ of this prospecting work to the claims listed below.

(State number of years to be applied to each claim, its month of record, and identify each claim by name and record number.)

C. DRILLING (Details in report submitted as per section 8 of regulations.) (The itemized cost statement must be part of the report.)	COST
D. GEOLOGICAL, GEOPHYSICAL, GEOCHEMICAL (Details in report submitted as per section 5, 6, or 7 of regulations.) (The itemized cost statement must be part of the report.) (State type of work in space below.)	
Geophysical Survey	7,000.00
Report to follow within 90 days of 15 Nov 85. <i>AWB</i>	
TOTAL OF C AND D	7,000.00

Where the above statement requires a technical report as per section C of the Mineral Act Regulations, the author of the report shall complete both copies of the ASSESSMENT REPORT TITLE PAGE AND SUMMARY form and include the completed forms in the assessment reports.

Who was the operator (provided the financing)? Name GoldQuest I Limited Partnership  
Address 311 Water Street  
Vancouver, B.C.

Portable Assessment Credits (PAC) Withdrawal Request		AMOUNT
Amount to be withdrawn from owner(s) or operator(s) account(s):		
Name of Owner/Operator		
(May be no more than 30 per cent of value of the approved work submitted as assessment work in C and (or) D.)	1. ....	
	2. ....	
	3. ....	
TOTAL WITHDRAWAL		
TOTAL OF C AND (OR) D PLUS PAC WITHDRAWAL		

I wish to apply \$ 7000.00 *AWB* of this work to the claims listed below.

(State number of years to be applied to each claim, its month of record, and identify each claim by name and record number.)

Claim	Record No.	Units	Month Due	Apply	Years Earned
✓BORIN I	1362	14	March	4,200	2
REBORIN	1858	14	Nov	2,800	2

Value of work to be credited to portable assessment credit (PAC) account(s).  
[May only be credited from the approved value of C and (or) D not applied to claims.]

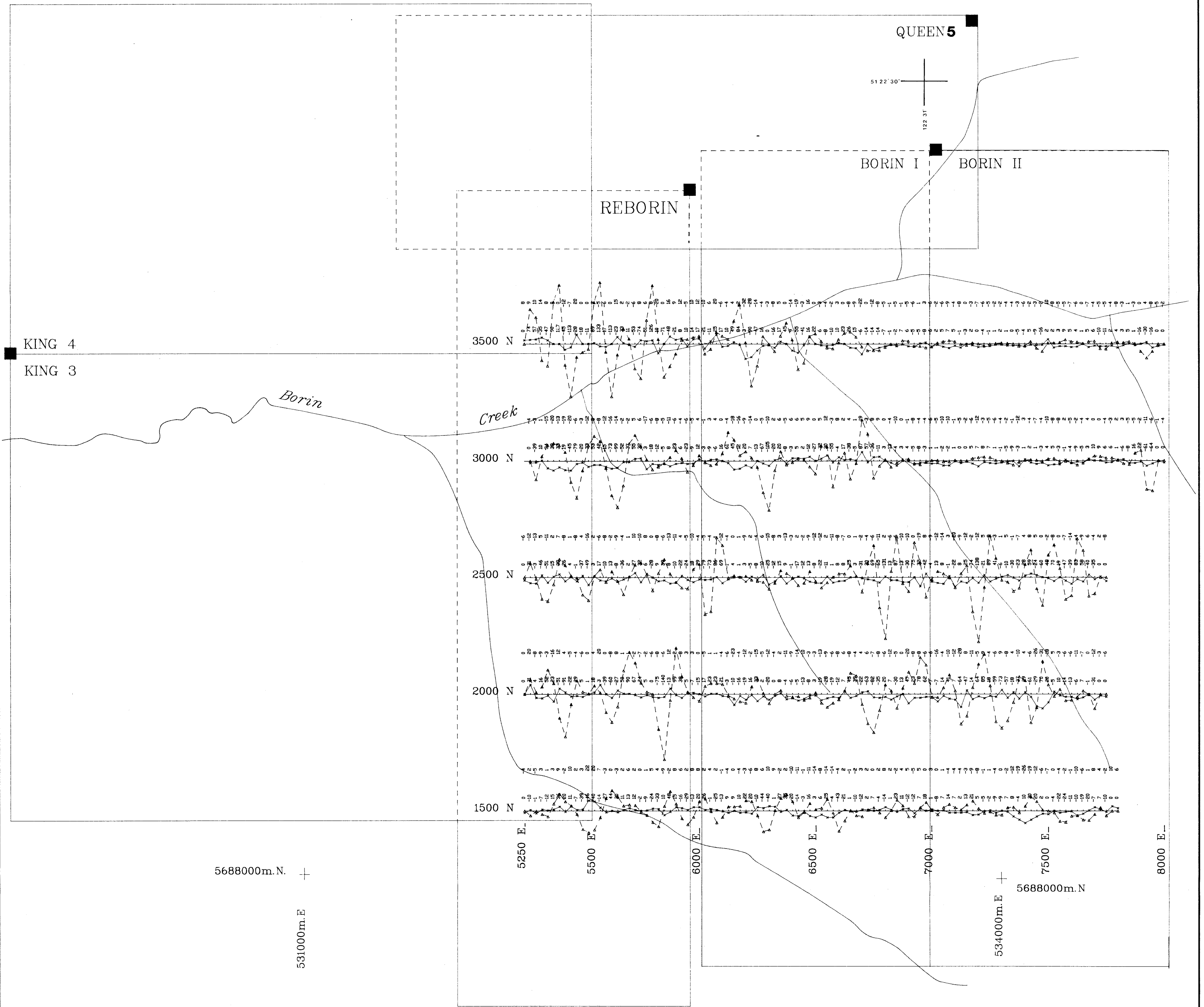
Name	AMOUNT
Name of owner/operator	
1. ....	
2. ....	
3. ....	

I, the undersigned Free Miner, hereby acknowledge and understand that it is an offence to knowingly make a false statement or provide false information under the *Mineral Act*. I further acknowledge and understand that if the statements made, or information given, in this Statement of Exploration and Development are found to be false and the exploration and development has not been performed, as alleged in this Statement of Exploration and Development, then the work reported on this statement will be cancelled and the subject mineral claim(s) may, as a result, forfeit to and vest back to the Province.

*Andrew W. Auld*  
Signature of Applicant

5692000m.N +  
531000m.E

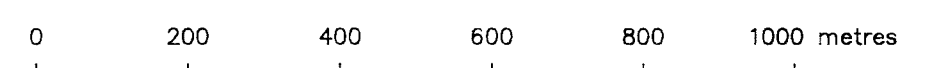
534000m.E  
5692000m.N



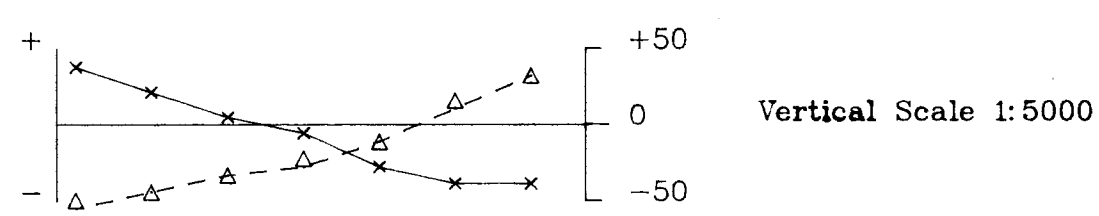
5688000m.N. +  
531000m.E

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**14,360**  
SCALE 1:10000



**LEGEND**



-25 -15 -10 -5 -7 -5 -15 -20  
-2 -15 -6 -15 -20  
QUADRATURE VALUE  
DIP ANGLE VALUE

QUADRATURE x-x-x-x-x  
DIP ANGLE - - - - -

GOLDQUEST I LIMITED PARTNERSHIP

QUEEN - BORIN CLAIMS

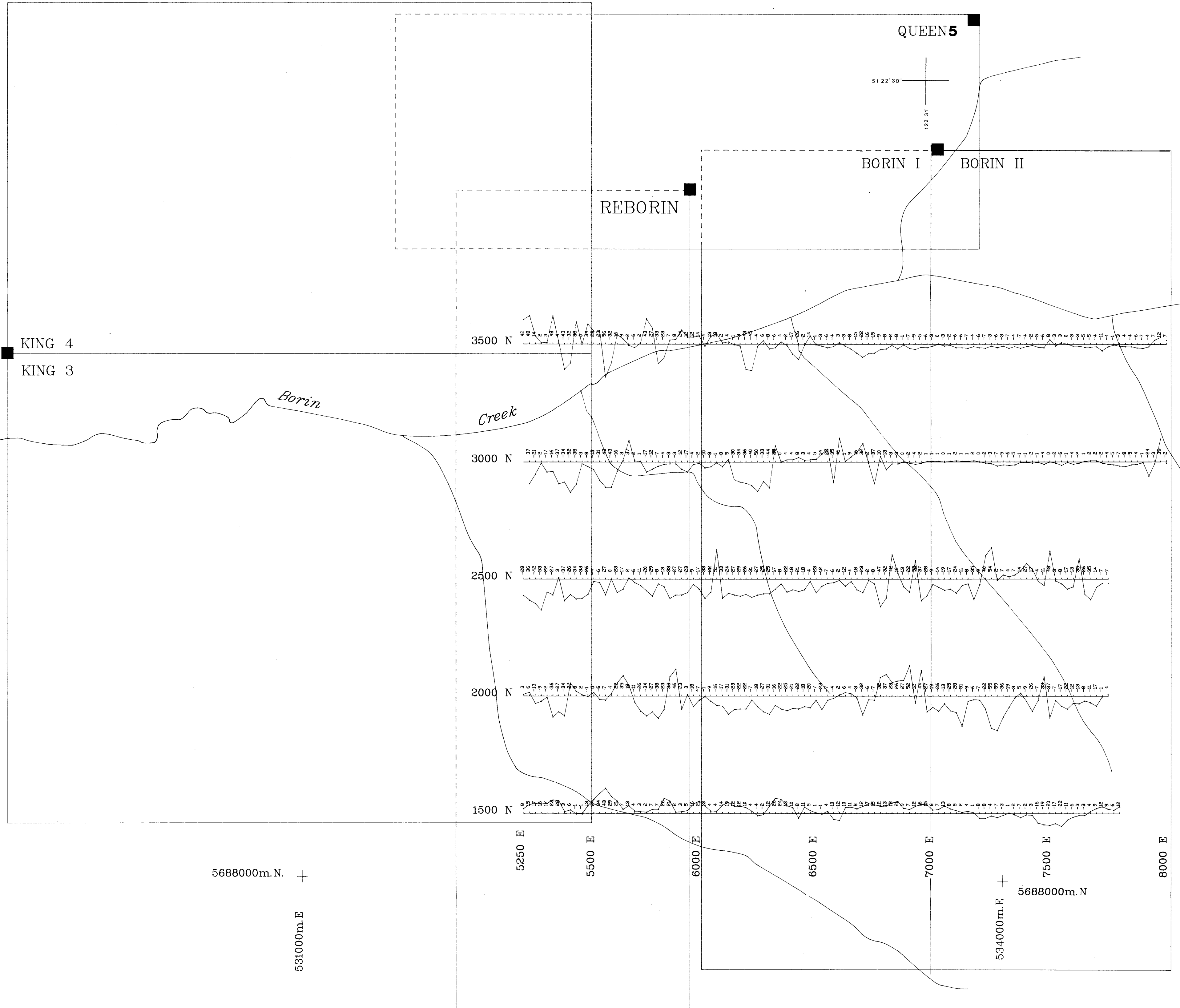
VLF-EM DIP ANGLE  
(Fraser Filtered)  
& QUADRATURE

	Originator	Drawn	Date	PLAN No.	FIGURE
Original	AWG	Geo-Comp	Feb. '86	864	<b>2</b>
Revision				N.T.S. 920/7	



5692000m.N +  
531000m.E

534000m.E  
+ 5692000m.N



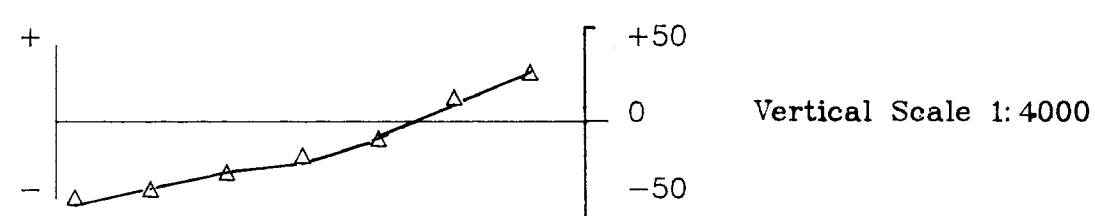
5688000m.N. +  
531000m.E

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**14,360**  
SCALE 1:10000

0 200 400 600 800 1000 metres

**LEGEND**



-2 -5 -6 -15 -20  
DIP ANGLE VALUE

GOLDQUEST I LIMITED PARTNERSHIP				
QUEEN - BORIN CLAIMS				
VLF-EM SURVEY				
(Raw Data)				
Originator	Drawn	Date	PLAN No.	FIGURE
Original AWG	Geo-Comp	Feb. '86	865	
Revision			N.T.S. 920/7	
				<b>3</b>
MINEQUEST EXPLORATION ASSOCIATES LTD.				