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EL 2260

BLACK EAGLE ROCK AREA

**ANNUAL, PROGRESS AND FINAL REPORTS FOR THE
PERIOD 10/1/97 TO APRIL 2001**

Submitted by

**Minotaur Gold NL and Aurora Gold (WA) Pty Ltd
2001**

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EXPLORATION LICENCE 2260 BLACK EAGLE

1ST ANNUAL TECHNICAL REPORT FOR THE PERIOD 10/1/97 TO 9/1/98

A.P. Belperio

16th March 1998

SUMMARY

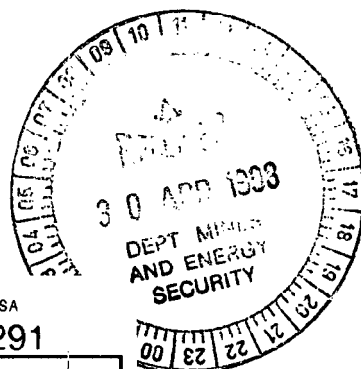
- Minotaur gold has completed its first year of exploration on EL 2260 (Black Eagle) where it is applying calcrete geochemical methodologies and structural interpretations to simultaneously explore for Cu, Au, Pb, Zn and Ag mineralisation.
- Regional calcrete sampling completed over 50% of the tenement has detected a number of Au, Pb, Ag, Zn and Cu anomalous areas

MAP REFERENCE
YARDEA (1:250,000) SI 53-3
MINNIPA (5932) CACUPPA (6032)

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INTRODUCTION

Exploration Licence 2260 (Black Eagle) covering 942 km² of the southern Gawler Craton (Fig 1) was granted to Minotaur Gold NL on January 10th 1997, initially for one year, with an expenditure commitment of \$120,000 per annum. The licence was renewed for its second year in January 1998. The tenement area comprises portions of the Paney and Buckleboo pastoral leases.

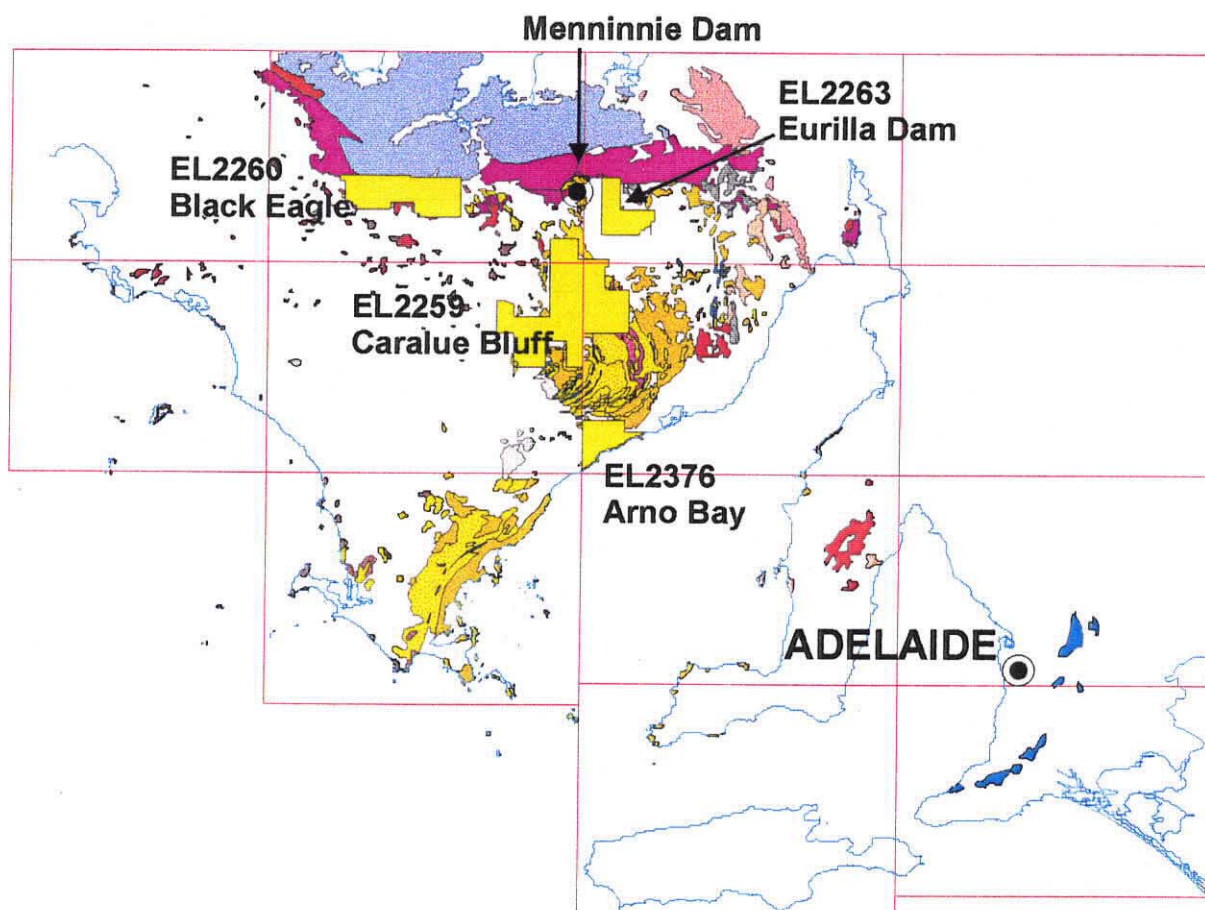


Figure 1. Locality map, Black Eagle exploration licence

GEOLOGICAL FRAMEWORK

The Gawler Craton, comprising crystalline basement of Archaean to Mesoproterozoic age, covers a large portion of western South Australia. On the southern Craton, between Kimba and Paney, the basement rocks are dominated by Archaean granulite facies gneisses (Sleaford Complex) and Palaeoproterozoic metasediments (Hutchison Group) (Parker et al., 1993). Voluminous syn-tectonic intrusives, polyphase deformation and shearing accompanied the c. 1850-1700 Ma Kimban Orogeny. Younger 1585Ma Gawler Range Volcanics and comagmatic Hiltaba Suite Granites in part exploited these earlier fractures.

The older rock sequences are sporadically exposed on the tenement, while the younger pyroclastic deposits of the Gawler Range Volcanics form a prominent range of hills along the northern part of the tenement. Type sections for the older basement units occur in the Cleve Hills south of the tenement on the KIMBA and WHYALLA 1:250 000 map sheets (Flint and Rankin, 1991). Aeromagnetic interpretation (MESA, 1997) indicates a general stratigraphic and structural continuity between the Cleve Hills outcrop and the masked bedrock beneath the licence area. Stratiform Pb-Zn mineralisation (Broken Hill style) in the Palaeoproterozoic metasediments has long been the focus of exploration in this area. The recent discovery of gold at Tunkillia, Myall, Sheoak and Wilcherry Hill in 1996/97, the development of the calcrete geochemical technique for gold and base metal exploration, and a re-interpretation of the genesis of Pb-Zn mineralisation at Menninnie Dam have refocussed exploration throughout the region.

The main geological units, from youngest to oldest, that occur within the exploration licence area include:

Quaternary Units

Dominated by colluvial and alluvial red-brown clays and gravelly clays veneered by aeolian sand spreads and moderately well-developed calcrete palaeosols. The expansive alluvial plains allowed extensive sampling for calcrete analysis, although regions of salt lakes and associated gypsiferous dunes provide an impediment to the use of this technique.

Tertiary Units

Residual outcrop and subsurface preservation of a lateritic and pisolitic weathered mantle formed either directly on bedrock, or associated with fluvio-lacustrine sediments.

Mesoproterozoic Units

Post-Kimban Orogeny Hiltaba Suite Granite comprises red, coarse-grained leucocratic adamellite with typical age range of 1600 - 1585 Ma. The Hiltaba Suite varies widely in texture, appearance and aeromagnetic signature depending upon the level of crustal emplacement, degree of fractionation and oxidation state (Daly et al., 1997). Co-magmatic pyroclastic Gawler Range Volcanics form prominent hills along the northern margin of the tenement. The Gawler Range Volcanics are predominantly ignimbritic dacite with a sequence of lower rhyolite, breccia and lava flows, and globally comprise one of the largest known felsic eruptive units.

Recent Ur-Pb zircon dating (Daly et al., 1997) has revealed a younger tectonic event (1650-1540 Ma Kararan Orogeny) largely focussed along earlier major shear zones. Outcrops previously mapped by their deformation state as Lincoln or Sleaford Complex may in fact be much younger, and Hiltaba Granites may or may not be deformed depending on their structural setting. The discovery of gold along the Yarlbirinda Shear Zone by Helix and Equinox in 1996 has highlighted the economic significance of these shear zones and youngest granites.

Palaeoproterozoic Lincoln Complex

The Kimban Orogeny, a long-lived, multiphase event from c. 1850 - 1700 Ma, was accompanied by a range of syntectonic intrusives. These Lincoln Complex leucocratic granites and granite gneisses are largely unexposed on the tenement but are well known to

the south and east. Significant shearing accompanied the late stage Kimban deformation, as exemplified by the c. 1710 Ma Kalinjala Mylonite Zone.

Palaeoproterozoic Hutchison Group

The Hutchison Group is a potential host for Broken Hill style, sediment-hosted, base metal mineralisation and has been a significant target by exploration companies in the past. It comprises clastic and chemical metasediments including calcsilicate, carbonate, iron formation, graphitic schist, as well as concordant amphibolite and rhyolitic gneiss.

The known succession of rocks from the Cleve Hills includes:

Bosanquet Formation: Interlayered breccia, calc-silicate and rhyodacite with bluish quartz and feldspar phenocrysts (1845 ± 9 Ma).

Yadnarie Schist: Quartz veined schist interlayered with psammitic bands.

Upper Middleback Jaspilite: Banded quartz-magnetite gneiss, cherty and ferruginous quartzite, graphitic schist and cherty jaspilite.

Cook Gap Schist: Well layered, quartz veined pelitic mica-garnet schist and gametiferous migmatitic gneiss. Locally, deformed concordant amphibolite bodies and calc-silicate bands carrying anomalous base metal concentrations are present.

Lower Middleback Jaspilite: This unit grades from banded iron formation to recrystallized chert and graphitic chert and represents a period of marine chemical sedimentation. It interfingers with both underlying and overlying units.

Katunga Dolomite: A massive grey, pink and white dolomitic marble with local interbands of calc-silicate gneiss and graphitic quartzite. Varies greatly in thickness and represents metamorphosed shallow marine carbonate beds.

Warrow Quartzite: Massive to flaggy medium grained quartzite with recognisable quartz-pebble conglomerate stringers. Includes a basal well banded calc-silicate gneiss and increasing pelitic interbands near the top.

The more resistant basal Warrow Quartzite is the only part of the Hutchison Group that outcrops within the licence area, with a significant, intervening, unexposed stratigraphy evident on the aeromagnetics.

Archaean Sleaford Complex

Late Archaean rocks that form the basement to the Hutchison Group metasediments are poorly exposed in the licence area as foliated and migmatitic felsic gneisses and gneiss granitoids. Gametiferous and magnetite gneiss from SADME WD1 near Warramboos gave a Rb-Sr age of 2520 ± 163 Ma. Foliated hypersthene gneiss from Cape Camot produced a U-Pb zircon age of 2637 ± 21 Ma (Parker et al., 1993).

Figures 2, 3 and 4 present synoptic overviews of the outcrop geology, aeromagnetics and interpreted bedrock geology of the region (after MESA 1997).

PREVIOUS EXPLORATION

The area has been explored in the past, principally for Broken Hill style exhalative base metals associated with Palaeoproterozoic Hutchison Group metasediments (Figure 5). Regionally, this has resulted in the discovery of the Menninnie Dam and Telephone Dam Pb-Zn-Ag ore bodies to the east of the tenement. These base metal deposits occur within

calcsilicates, marbles and BIFs of the Middleback Subgroup and were considered to be syn-Kimban remobilised stratiform deposits. More recent research has concluded that mineralisation was contemporaneous with intrusive rhyolites of identical age to the Gawler Range Volcanics. The BIF sequences of the Hutchison Group also include the high-grade haematite ore of the Middleback Ranges.

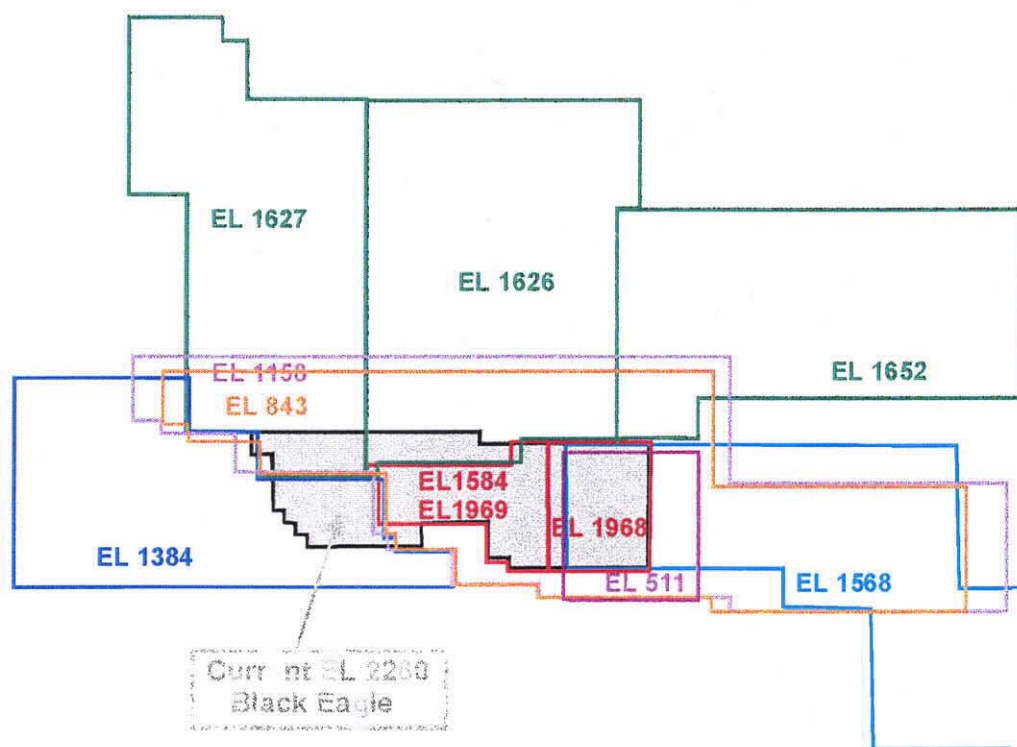


Figure 5. Summary plan of previous exploration

Some of the more significant past exploration licence holders include :

EL0511 Thurlga Ramp

Licensee: Pegmin Ltd

Date granted: 21/8/79

Date expired: 15/1/80

Months held: 5

Related documents:

ENV 3594 Final report EL 511 Buckleboo, South Australia (7 figs, 11 pls).

Author: Ranson, D.M.

Date: 1979

Target: Uranium

Exploration Program: Regional mapping and sampling of radiometric anomalies

Results: Nine radiometric anomalies were found to be unrelated to basement and of superficial origin.

EL0843: Mount Double

Licensee: Stockdale Prospecting Ltd

Date granted: 4/5/81

Date expired: 3/5/83

Months held: 24

Related documents:

ENV 4267 Gawler Range Volcanics project. Progress reports from 3.5.81 to 3.5.83.

Author: Davies, P.R.;Robinson, H.R.;Stracke, K.J.

Date: 1983

TARGET: Diamond over area covered by Gawler Range Volcanics.

EXPLORATION: - reconnaissance heavy mineral sampling by helicopter

- follow-up of 63 photo anomalies, including detailed sampling and ground magnetic surveys

- multielement analysis of fine fraction from all samples

- aerial magnetic, radiometric and VLF survey over the poorly drained southern part of the EL block (flown by Geometrics Pty Ltd in October 1981, Line spacing : 250 metres; Altitude : 70 metres; 7990 line km).

RESULTS: Detailed sampling at Unalla Hill reconfirmed an anomaly located during earlier regional sampling. 31 anomalies were selected for follow-up. EL's 827, 834, 841 and part EL's 842 and 844 were relinquished.

ENV 4267 Mount Nott; Mount Ive. Progress reports from 16.6.83 to 10.10.88.

Author:

Date: 1988

TARGET: - Diamond exploration

- Exhalative lead-zinc-silver of Broken Hill or Aggeneys-Gamsberg type in Early Proterozoic Hutchison Group.

EXPLORATION: Stockdale followed up aerial magnetic anomalies from its 1981 survey by helicopter and ground magnetic surveys, gravity and Sirotem surveys, heavy mineral sampling and detailed geological mapping. 2 anomalies were drill tested (2 holes totalling 108 metres).

Shell exploration included magnetic interpretation and image processing of Stockdale's 1981 aerial survey, geological mapping, ground magnetic and Sirotem surveys, downhole TEM logging and a lead isotopic study on drill core at DDH PP1 (Paney prospect), soil and rock chip sampling, RAB and percussion drilling for bedrock samples (383 holes totalling 10 462 metres) and 2 diamond drill holes (547 metres) over Sirotem anomalies at the Paney prospect.

WMC conducted regional stream sediment bulk leach gold sampling and Sirotem surveys over 3 prospects.

RESULTS: DDH PP1 was pyritic throughout with minor Pb-Zn intersections in 4 zones of 2-8 metres apparent width.

ENV 4747 Gawler Ranges. Relinquishment report.

Author: Robison, H.R.;Davies, P.R.

Date: Apr 1984

Very low prospectivity.

EL1158: Mount Double

Licensee: Stockdale Prospecting Ltd

Date granted: 17/6/83

Date expired: 16/6/88

Months held: 60

Related documents:

ENV 4267 Gawler Range Volcanics project. Progress reports from 3.5.81 to 3.5.83.

Author: Davies, P.R.;Robinson, H.R.;Stracke, K.J.

Date: 1983

see above

ENV 4267 Mount Nott; Mount Ive. Progress reports from 16.6.83 to 10.10.88.

Author:

Date: 1988

see above

ENV 5430 Gawler Ranges. Partial relinquishment report, April 1984.

Author: Robison, H.R.

Date: 1984

Exploration including 76 heavy mineral samples, showed diamond prospectivity to be very low.

EL1384: Chilpuddie Hill

Licensee: CRA Exploration Pty Ltd

Date granted: 2/3/87

Date expired: 10/7/90

Months held: 40

Related documents:

ENV 6459 Wudinna and Chilpuddie Hill. Progress reports for the period 30/7/85 to 29/7/88.

Author:

Date: 1988

TARGET: Exploration in the Minnipa-Kyancutta region for uranium in Recent lake sediments, heavy mineral sands in Tertiary palaeochannels, base and precious metals in basement rocks and diamonds associated with possible kimberlitic intrusions.

EXPLORATION: Aerial magnetic and radiometric surveys, helicopter radiometric traverses, image processing and reinterpretation of the 1988 SADME / BMR aerial geophysical survey, rock chip and loam sampling, ground magnetic, IP and gravity surveys, and drilling (106 RAB holes totalling 1707 metres, 67 reverse circulation holes totalling 1599 metres, 3 percussion holes totalling 445 metres and 2 diamond drill holes totalling 277 metres).

RESULTS: Trace ilmenite and zircon were recorded in Tertiary sand units. Elevated gold values recorded in two drill holes at the Mambrae prospect were not substantiated by subsequent re-assaying.

EL1568: Peterlumbo

Licensee: Aberfoyle Resources Ltd

Date granted: 14/2/89

Date expired: 13/2/94

Months held: 60

Related documents:

ENV 8560 Carpie Puntha and Peterlumbo. Technical report for areas relinquished on 13/2/92.

Author: Coutts, B.P.;Fander, H.W.

Date: 1992

TARGET: Base metals in the Cowell-Kimba-Buckleboo region.

EXPLORATION: Field reconnaissance and rock chip geochemical sampling of prospective areas identified from reprocessed aeromagnetic and Landsat TM imagery.t

EL1584: Mount Allalone

Licensee: Aberfoyle Resources Ltd

Date granted: 14/6/89

Date expired: 4/7/94

Months held: 61

Related documents:

ENV 8209 Progress Reports on exploration Licence 1584 Mt Allalone

Author: Coutts, B.P.

Date:

Target: Base metals

Exploration: RAB, RC drilling, SIROTEM, ground magnetics

Results: 90 follow up RAB and RC holes drilled on the Paney grid of Billiton (Coutts, 1991) confirmed geochemically anomalous Hutchison Group stratigraphy. 99 RAB and RC holes the Tin Hut Well prospect returned visible sulphides (3.6% Pb+Zn) in amphibolitic metasediments. A 1.8 km x 0.25 km geochemically anomalous bedrock zone was outlined (Pb>1000 ppm, Zn>1000 ppm, Cu>500 ppm). Drilling of SIROTEM conductors returned variably mineralised (0.7% to 1.4% Pb+Zn) calcsilicates considered to be equivalent to the Suite1 to Suite3 sulphide horizons at Menninnie Dam. Significant potential still exists at Tin Hut Well in base metal anomalous carbonates.

EL1626: Charba Hill

Licensee: CRA Exploration Pty Ltd

Date granted: 22/12/89

Date expired: 21/12/90

Months held: 12

Related documents:

ENV 8293 Charba Hill, Peltabinnna Hill and Unalla Hill. Progress and final reports for the period 22/12/89 to 14/11/90.

Author: Marinelli, J.F.;MacKee, G.L.;Sugden, S.P.

Date: 1990

TARGET: Gold and base metals associated with volcanic centres; diamonds.

EXPLORATION: Regional and follow-up geochemical sampling (gravel, stream sediment and rock chip), geological mapping, detailed aerial magnetic and radiometric surveys, ground magnetic and regional gravity surveys and trial aerial GEOTEM surveys.

RESULTS: Minor Pb-Zn-Cu-As-Sb mineralization was disclosed at Sherry Dam prospect.

EL1627: Peltabinnna Hill

Licensee: CRA Exploration Pty Ltd

Date granted: 22/12/89

Date expired: 21/12/90

Months held: 12

Related documents:

ENV 8293 Charba Hill, Peltabinnna Hill and Unalla Hill. Progress and final reports for the period 22/12/89 to 14/11/90.

Author: Marinelli, J.F.;MacKee, G.L.;Sugden, S.P.

Date: 1990

see above

EL1652: Unalla Hill

Licensee: CRA Exploration Pty Ltd

Date granted: 23/4/90

Date expired: 23/1/91

Months held: 9

Related documents:

ENV 8293 Charba Hill, Peltabinna Hill and Unalla Hill. Progress and final reports for the period 22/12/89 to 14/11/90.

Author: Marinelli, J.F.; MacKee, G.L.; Sugden, S.P.

Date: 1990

see above

EL1968: Peter Pan Dam

Licensee: Aberfoyle Resources Ltd

Date granted: 1/8/94

Date expired: 31/7/96

Months held: 24

Related documents:

Not yet released on open file

EL1969: Mount Allalone

Licensee: Aberfoyle Resources Ltd

Date granted: 1/8/94

Date expired: 31/7/96

Months held: 24

Related documents:

see EL 1584; ENV 8209

MINOTAUR EXPLORATION PROGRAM - YEAR 1 1997

Four styles of mineralisation form the basis of Minotaur's exploration program on the Black Eagle tenement.

- Stratiform and remobilised base metal mineralisation of the SEDEX type (Broken Hill style Ag-Pb-Zn) associated with clastic and chemical metasediments of the Hutchison Group.
- Shear-hosted epigenetic gold and base metal mineralisation (Tunkillia style) associated with late Kimban and Kararan structures and associated intrusives.
- Skarn-related gold and base metal mineralisation (Menninnie Dam style) associated with igneous intrusives into limestone, BIF and other chemical metasedimentary hosts.
- Olympic Dam or Cloncurry style Au-Cu mineralisation associated with Hiltaba age high level intrusives, pyroclastic eruptives, brecciation and iron metasomatism.

The exploration effort in the first year included digital data compilation and synthesis, aeromagnetic interpretation and regional geochemical sampling utilising gold and base metals in calcrete as principal pathfinder elements. Regional sampling was undertaken on approximate 1 km centres over the more accessible portion of the licence area. Particular attention was also paid to two previous drillsites of an earlier Billiton/Aberfoyle joint venture (PE1 and PP1) that had intersected mineralisation. These were covered by a common 200m sampling grid and separate 50m grids.

Minotaur's successful experience with the calcrete geochemical technique for gold exploration lead it to pioneer its use for base metal exploration on the southern craton. Regional sampling at 1km centres and grid sampling over a central portion of the tenement was undertaken in May, November and December 1997 with approximately 50% of the tenement covered. A tractor mounted post hole auger was used with the full 1m auger flight sampled, calcrete fragments sieved out, and subsequently analysed for Ca, Au, Ag, Zn, Co, Cu, Ni, As and Mo.

A BLEG extraction with ICPMS finish was used to provide ultra low detection limits for Au (0.05 ppb) and Ag (0.5 ppb) with other elements analysed by AMDEL method IC2E.. Assay results from 868 regional and grid samples collected in the first year are listed in Table 1 and shown diagrammatically in Figures 6 to 8. A number of polymetallic anomalies are evident from both the regional and grid data. Mobile metal ion analysis was also undertaken over the Paney grid (Table 2).

Anomalous silver (20 to 161 ppb) is recorded at over 18 sites over the sampled portions of the tenement (Figure 6). Lead and zinc anomalism is associated with some, but not all, of the silver prospects. Separate regions of anomalous zinc (to 190 ppm) and another of anomalous Cu- As-Mo, and anomalous Au-As are evident from the data. Detailed sampling over the Paney grid revealed no significant anomalism associated with former Billiton drillholes PE1 and PP1.

REFERENCES

Daly, S. J., Fanning, C. M. and Fairclough, M. C., 1997. Tectonic evolution and exploration potential of the Gawler Craton. AGSO Journal of Australian Geology and Geophysics.

Flint, R.B. and Rankin, L.R., 1991. KIMBA South Australia 1:250 000 Geological Series Explanatory Notes. Department of Mines and Energy, South Australia.

MESA, 1997. Southern Gawler Craton Geoscientific GIS dataset, Arcview version. Department of Mines and Energy, South Australia.

Parker, A. J., Daly, S. J., Flint, R. b., Preiss, W. V. and Teale, G. S., 1993. Palaeoproterozoic. In: The Geology of South Australia Volume 1, The Precambrian. South Australia, Geological Survey, Bulletin 54..

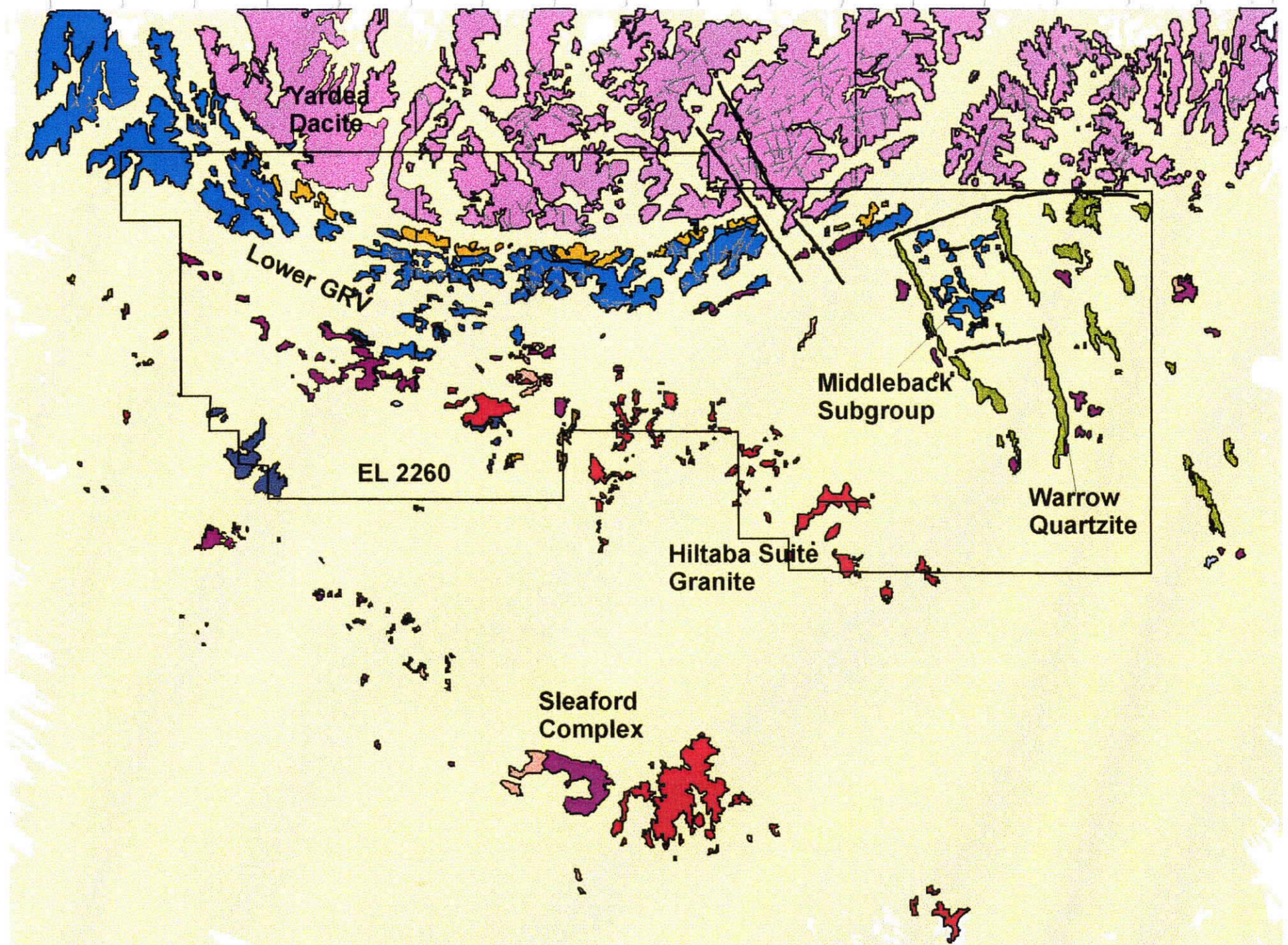


Figure 2 Outcrop geology around EL 2260 (Black Eagle)

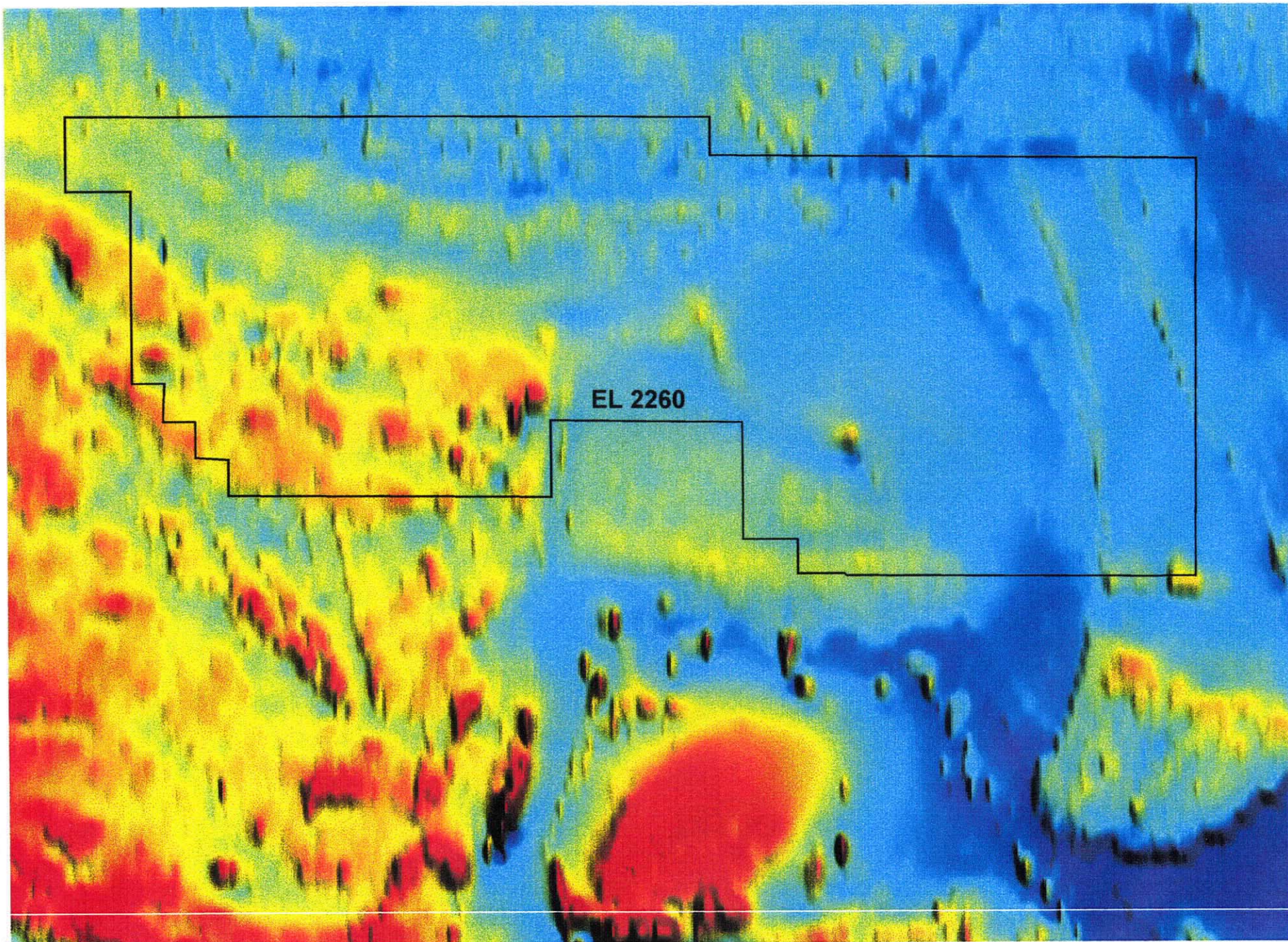


Figure 3 Aeromagnetic image around EL 2260 (Black Eagle)

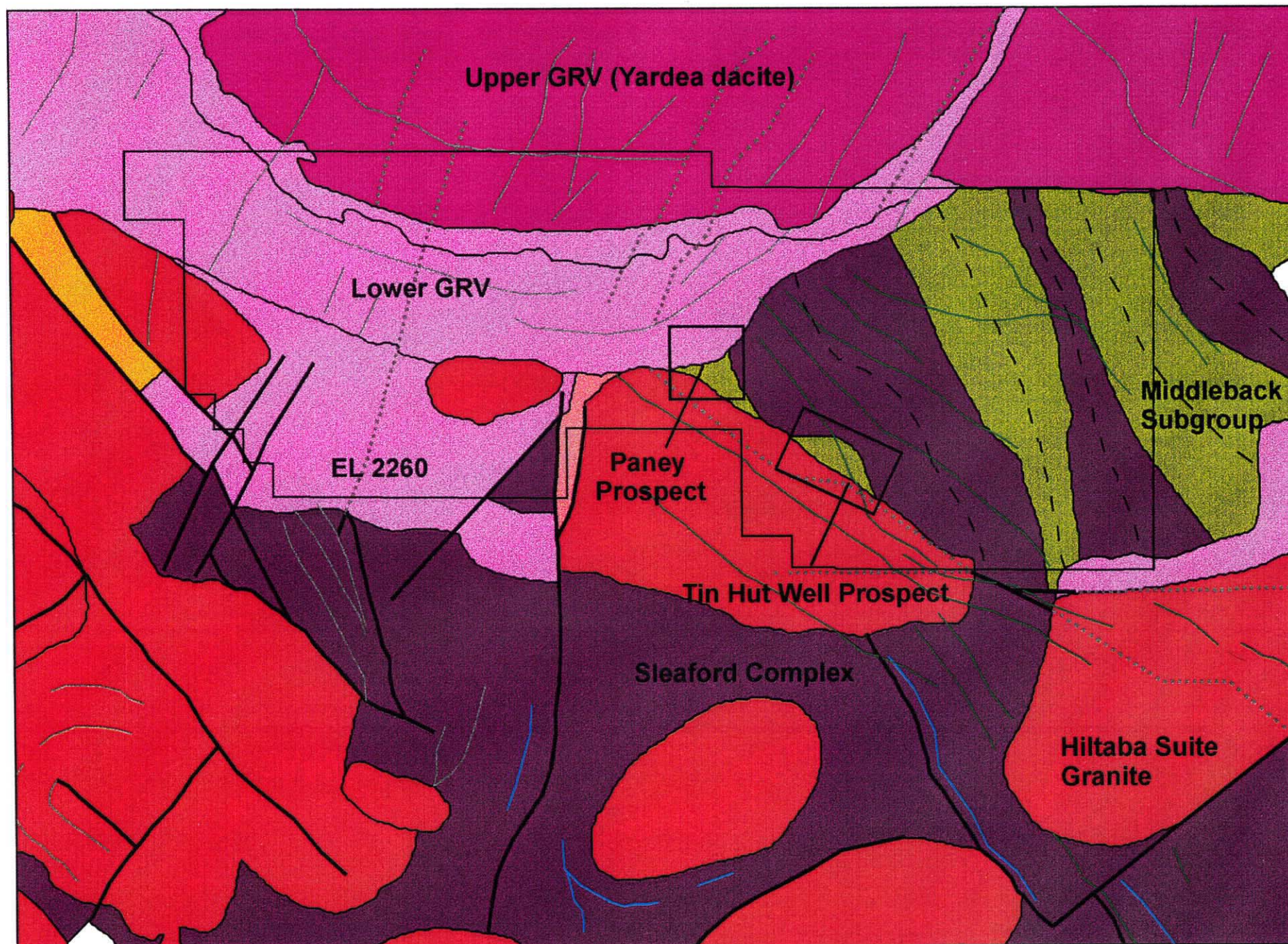


Figure 4 Solid Geology interpretation (after MESA 1997)

MINOTAUR GOLD NL EL 2260 - BLACK EAGLE ROCK
CALCRETE SAMPLES to FEB 1998

BLEG Au (ppb) in Calcrete Values

 Au-Cu Anomalism

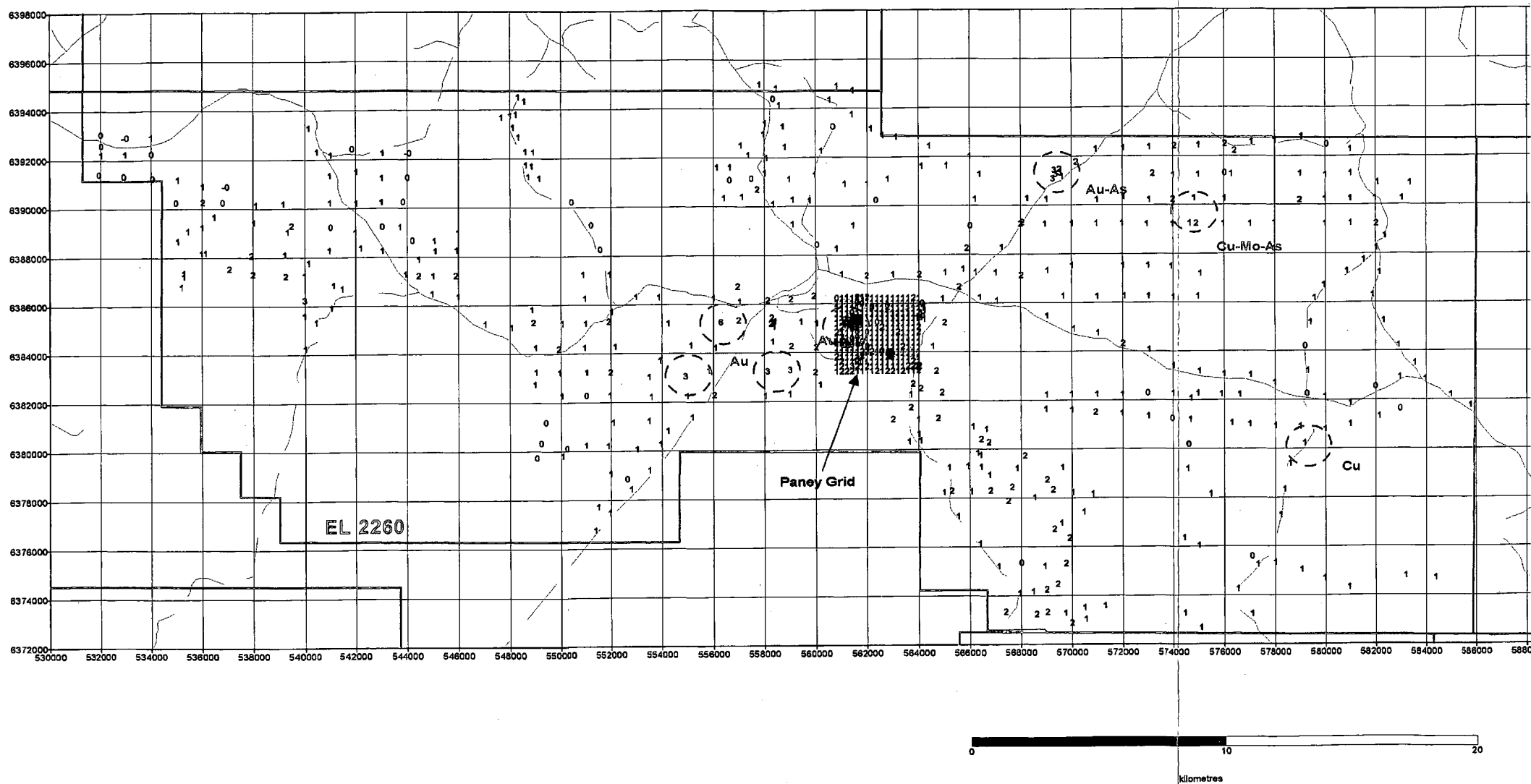


FIGURE 6 Au - Cu anomalism;Black Eagle regional samples

MINOTAUR GOLD NL EL 2260 - BLACK EAGLE ROCK
CALCRETE SAMPLES to FEB 1998

BEagleAg.srf 1:200,000

Pb in Calcrete Values

○ Pb Zn or Ag Anomalism

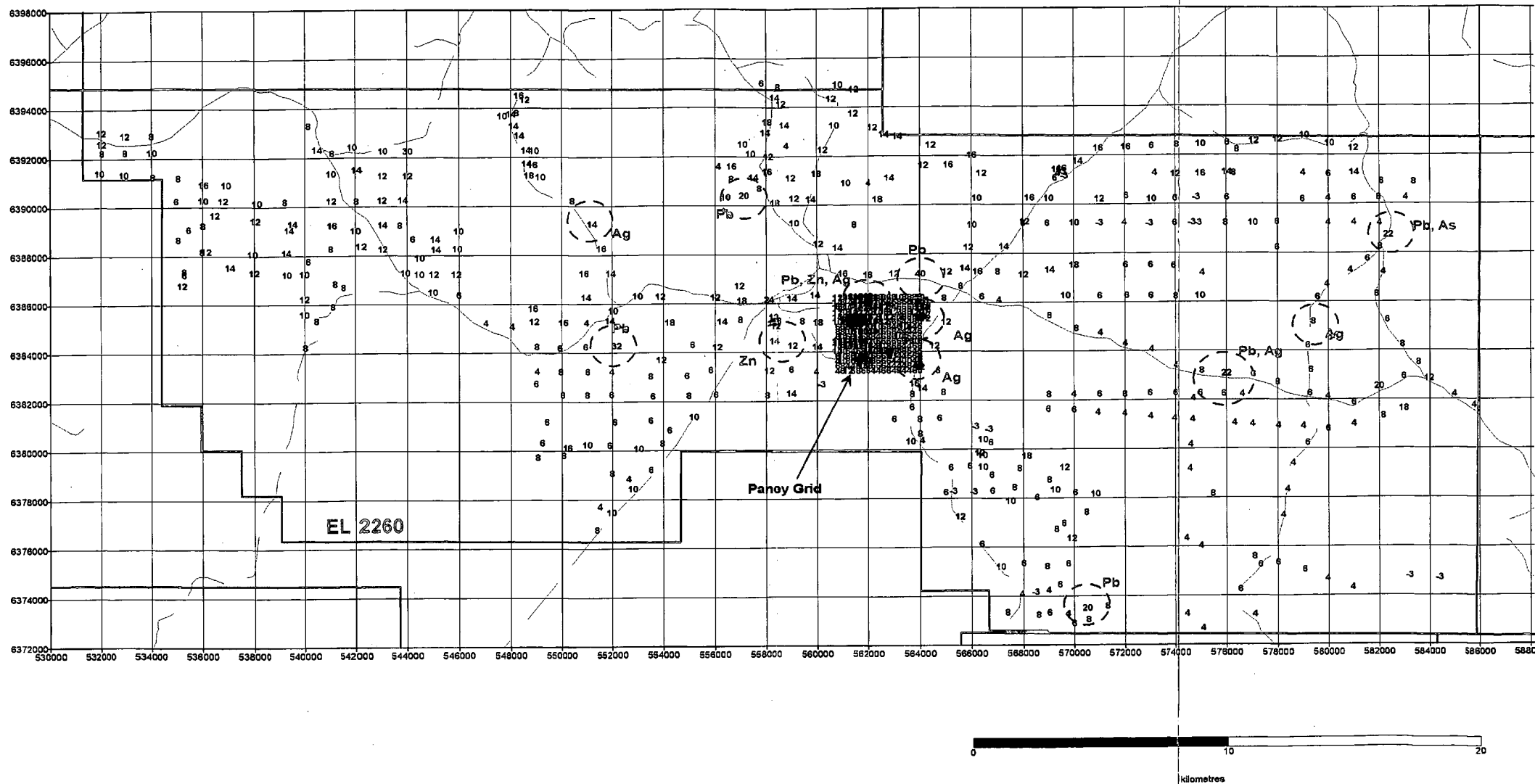


FIGURE 7 Pb - Zn - Ag anomalism; Black Eagle regional samples

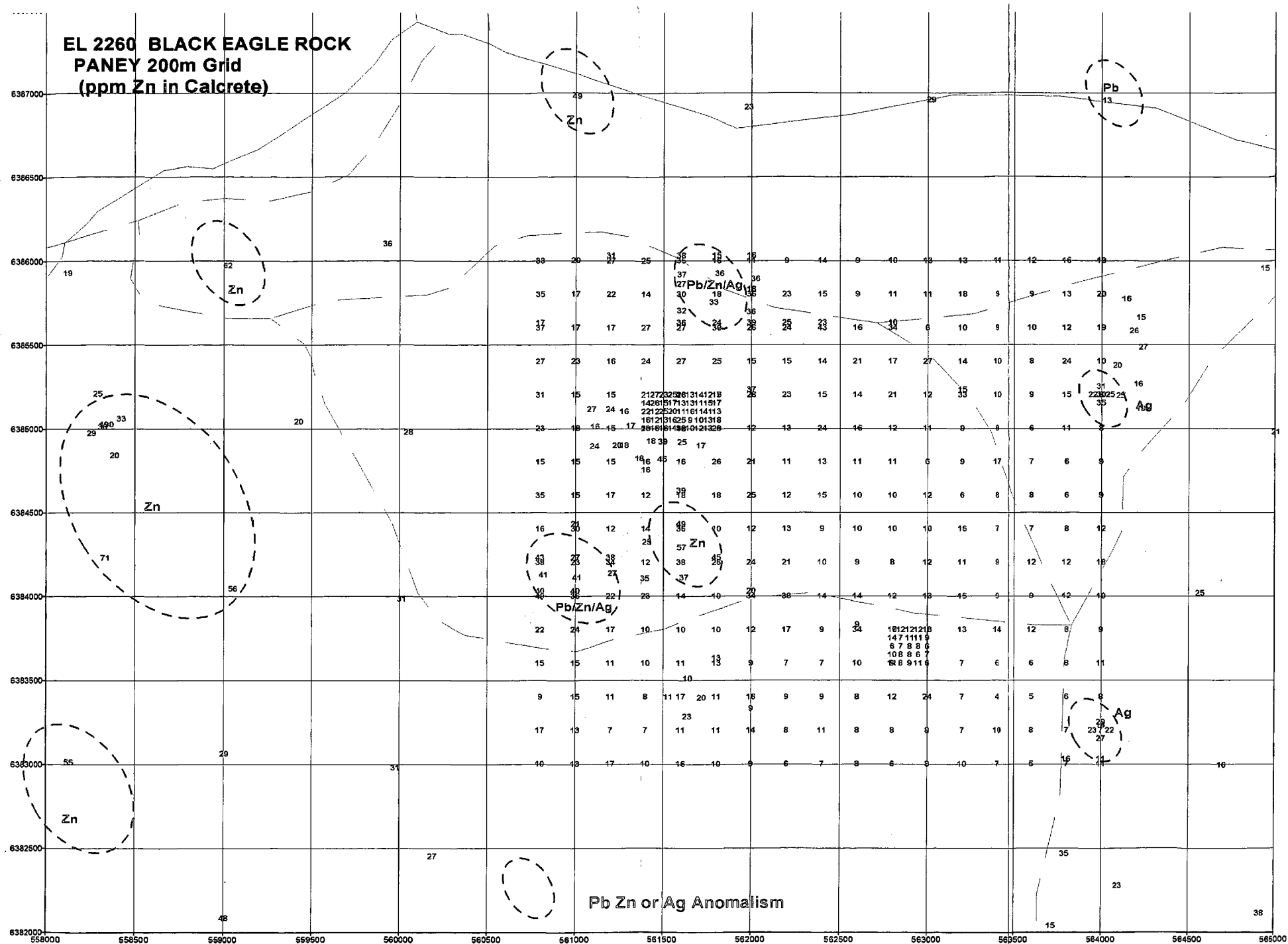


FIGURE 8 Pb-Zn-Ag anomalism ; Paney Grid

TABLE 1. Black Eagle Calcrete Data

Easting	Northing	S/no	Au (BLEG)	Au Dupl	Ag(BLEG)	Ag Dupl	Ca	Cu	Ni	As	Mo	Co	Ag	Pb	Zn
560800	6383000	16001	0.90	-9000	2.0	-9000	22.5	8	6	4	0.5	5	<0.5	4	10
560800	6383200	16002	1.30	-9000	2.0	-9000	14.5	12	11	6	0.5	5	<0.5	6	17
560800	6383400	16003	0.95	-9000	2.0	-9000	29	10	5	4	0.5	5	<0.5	4	9
560800	6383600	16004	1.90	-9000	2.0	-9000	24	12	9	7	0.5	4	<0.5	6	15
560800	6383800	16005	1.10	-9000	6.0	-9000	12	12	11	6	0.5	6	<0.5	10	22
560800	6384000	16006	0.75	-9000	19.0	-9000	7	17	16	6	0.5	8	<0.5	14	40
560800	6384200	16007	0.55	-9000	13.0	-9000	5	14	14	4	0.5	8	<0.5	12	38
560800	6384400	16008	1.20	-9000	3.0	-9000	21.5	9	8	6	0.5	5	<0.5	6	16
560800	6384600	16009	1.60	-9000	2.5	-9000	19.5	15	7	7	0.5	5	<0.5	8	35
560800	6384800	16010	0.55	-9000	3.0	-9000	29.5	11	6	5	0.5	5	<0.5	6	15
560800	6385000	16011	1.30	-9000	3.0	-9000	15	11	10	6	0.5	6	<0.5	10	23
560800	6385200	16012	0.50	-9000	8.5	-9000	10.5	14	11	4	0.5	7	<0.5	14	31
560800	6385400	16013	0.80	-9000	8.5	-9000	11.5	13	10	4	0.5	6	<0.5	12	27
560800	6385600	16014	0.60	-9000	12.0	-9000	5.5	21	16	4	0.5	8	<0.5	16	37
560800	6385800	16015	0.55	-9000	7.0	-9000	5.5	14	13	4	0.5	8	<0.5	14	35
560800	6386000	16016	0.45	-9000	7.0	-9000	5.5	14	13	4	0.5	8	<0.5	12	33
561000	6383000	16017	1.90	-9000	11.0	-9000	12.5	10	8	6	0.5	5	<0.5	6	13
561000	6383200	16018	1.50	-9000	3.5	-9000	17.5	10	7	5	0.5	5	<0.5	8	13
561000	6383400	16019	1.50	-9000	5.0	-9000	17.5	11	8	5	0.5	6	<0.5	10	15
561000	6383600	16020	1.30	-9000	5.5	-9000	15.5	8	7	7	0.5	5	<0.5	10	15
561000	6383800	16021	0.90	-9000	6.5	-9000	14	10	11	5	0.5	6	<0.5	10	24
561000	6384000	16022	0.65	-9000	17.0	-9000	5	15	13	5	0.5	8	<0.5	14	36
561000	6384200	16023	0.50	-9000	11.0	-9000	7	11	9	4	0.5	6	<0.5	14	23
561000	6384400	16024	1.50	-9000	13.0	-9000	6.5	14	14	4	0.5	7	<0.5	14	30
561000	6384600	16025	1.00	-9000	3.0	-9000	20	9	7	6	0.5	4	<0.5	8	15
561000	6384800	16026	1.80	-9000	1.5	-9000	20.5	9	8	6	0.5	5	<0.5	6	15
561000	6385000	16027	1.50	-9000	4.0	-9000	15	10	8	4	0.5	4	<0.5	8	18
561000	6385200	16028	1.30	-9000	3.0	-9000	15.5	11	8	7	0.5	4	<0.5	10	15
561000	6385400	16029	1.00	-9000	13.0	-9000	11	12	10	4	0.5	6	<0.5	10	23
561000	6385600	16030	0.90	-9000	5.0	-9000	15.5	10	8	4	0.5	5	<0.5	8	17
561000	6385800	16031	1.00	-9000	4.5	-9000	15.5	11	9	5	0.5	5	<0.5	8	17
561000	6386000	16032	0.60	-9000	9.5	-9000	9.5	10	9	4	0.5	6	<0.5	10	20
561200	6383000	16033	1.50	-9000	27.0	-9000	5.5	12	10	5	0.5	6	<0.5	12	17
561200	6383200	16034	1.20	-9000	4.5	-9000	31	7	4	4	0.5	5	<0.5	4	7
561200	6383400	16035	1.30	-9000	2.0	-9000	23.5	9	6	9	0.5	4	<0.5	8	11
561200	6383600	16036	1.00	-9000	3.5	-9000	22	11	6	5	0.5	6	<0.5	8	11
561200	6383800	16037	1.30	-9000	5.5	-9000	13	10	9	7	0.5	5	<0.5	6	17
561200	6384000	16038	0.90	-9000	9.0	-9000	12.5	12	10	5	0.5	6	<0.5	10	22
561200	6384200	16039	0.50	-9000	20.0	-9000	4.7	13	13	5	0.5	7	<0.5	14	34
561200	6384400	16040	1.40	-9000	5.0	-9000	21.5	11	6	5	0.5	4	<0.5	6	12
561200	6384600	16041	0.70	-9000	6.5	-9000	14	9	8	4	0.5	5	<0.5	10	17

TABLE 1. Black Eagle Calcrete Data

Easting	Northing	S/no	Au (BLEG)	Au Dupl	Ag(BLEG)	Ag Dupl	Ca	Cu	Ni	As	Mo	Co	Ag	Pb	Zn
561200	6384800	16042	1.30	-9000	3.5	-9000	20.5	9	8	5	0.5	5	<0.5	8	15
561200	6385000	16043	3.10	-9000	6.0	-9000	19	10	8	5	0.5	5	<0.5	8	15
561200	6385200	16044	0.75	-9000	2.5	-9000	18	9	7	5	0.5	4	<0.5	8	15
561200	6385400	16045	1.00	-9000	4.0	-9000	17.5	11	8	5	0.5	5	<0.5	8	16
561200	6385600	16046	0.90	-9000	5.5	-9000	19.5	10	8	5	0.5	5	<0.5	10	17
561200	6385800	16047	0.60	-9000	19.0	-9000	12	10	9	5	0.5	6	<0.5	14	22
561200	6386000	16048	0.70	-9000	11.0	-9000	7	13	12	4	0.5	6	<0.5	16	27
561400	6383000	16049	2.20	-9000	13.0	-9000	14.5	9	8	7	0.5	5	<0.5	6	10
561400	6383200	16050	2.70	-9000	14.0	-9000	27	7	5	3	0.5	5	<0.5	4	7
561400	6383400	16051	1.30	-9000	1.5	-9000	27	7	5	4	0.5	4	<0.5	6	8
561400	6383600	16052	1.30	-9000	2.0	-9000	22.5	9	6	4	0.5	4	<0.5	6	10
561400	6383800	16053	1.40	-9000	1.5	-9000	21.5	7	6	5	0.5	4	<0.5	4	10
561400	6384000	16054	0.80	-9000	12.0	-9000	15.5	11	10	4	0.5	5	<0.5	10	23
561400	6384200	16055	0.95	-9000	3.5	-9000	23	8	7	4	0.5	4	<0.5	6	12
561400	6384400	16056	1.40	-9000	3.5	-9000	22.5	9	8	5	0.5	5	<0.5	8	14
561400	6384600	16057	0.85	-9000	2.5	-9000	23	8	6	5	0.5	4	<0.5	6	12
561400	6384800	16058	0.70	-9000	78.0	-9000	20.5	9	8	4	0.5	5	<0.5	10	16
561400	6385000	16059	0.50	-9000	15.0	-9000	16.5	10	6	5	0.5	4	<0.5	12	23
561400	6385200	16060	0.75	-9000	10.0	-9000	20	12	8	4	0.5	5	<0.5	8	21
561400	6385400	16061	0.45	-9000	10.0	-9000	14	11	9	4	0.5	5	<0.5	10	24
561400	6385600	16062	0.70	-9000	15.0	-9000	9	13	12	4	0.5	7	<0.5	14	27
561400	6385800	16063	0.70	-9000	3.5	-9000	21.5	10	7	4	0.5	5	<0.5	8	14
561400	6386000	16064	0.70	-9000	10.0	-9000	12.5	12	11	3	0.5	6	<0.5	10	25
561600	6383000	16065	1.10	-9000	9.5	-9000	14	11	10	4	0.5	5	<0.5	8	16
561600	6383200	16066	1.70	-9000	4.5	-9000	14	11	10	6	1	4	<0.5	6	11
561600	6383400	16067	1.70	-9000	21.0	-9000	10.5	14	16	12	0.5	11	<0.5	20	17
561600	6383600	16068	0.60	-9000	7.0	-9000	29	10	8	4	0.5	4	<0.5	10	11
561600	6383800	16069	0.60	-9000	9.0	-9000	27.5	8	5	3	0.5	5	<0.5	6	10
561600	6384000	16070	1.00	-9000	6.0	-9000	10	8	11	8	2	10	<0.5	12	14
561600	6384200	16071	0.80	-9000	20.0	-9000	5.5	16	16	4	0.5	8	<0.5	16	38
561600	6384400	16072	0.45	-9000	14.0	-9000	5	14	15	3	0.5	8	<0.5	14	36
561600	6384600	16073	0.60	-9000	12.0	-9000	13	9	10	4	0.5	5	<0.5	10	18
561600	6384800	16074	1.00	-9000	7.0	-9000	15.5	11	10	3	0.5	5	<0.5	8	16
561600	6385000	16075	0.80	-9000	76.0	-9000	6.5	13	14	4	0.5	7	<0.5	14	32
561600	6385200	16076	0.70	-9000	5.5	-9000	6.5	13	14	4	1	6	<0.5	14	26
561600	6385400	16077	0.55	-9000	7.0	-9000	10	14	13	4	0.5	6	<0.5	12	27
561600	6385600	16078	0.65	-9000	8.5	-9000	6.5	12	13	4	0.5	6	<0.5	14	27
561600	6385800	16079	0.40	-9000	34.0	-9000	6	13	14	3	0.5	7	<0.5	14	30
561600	6386000	16080	0.55	-9000	7.5	-9000	2.5	16	16	3	0.5	7	<0.5	14	35
561800	6383000	16081	1.30	-9000	9.5	-9000	15.5	8	9	5	0.5	4	<0.5	6	10
561800	6383200	16082	1.20	-9000	17.0	-9000	13	9	9	5	1	4	<0.5	16	11

TABLE 1. Black Eagle Calcrete Data

Easting	Northing	S/no	Au (BLEG)	Au Dupl	Ag(BLEG)	Ag Dupl	Ca	Cu	Ni	As	Mo	Co	Ag	Pb	Zn
561800	6383400	16083	1.10	-9000	22.0	-9000	12.5	11	11	6	1	4	<0.5	10	11
561800	6383600	16084	1.10	-9000	8.0	-9000	6	7	10	8	1	5	<0.5	16	13
561800	6383800	16085	1.90	-9000	14.0	-9000	20	7	7	5	0.5	4	<0.5	8	10
561800	6384000	16086	1.00	-9000	3.5	-9000	21.5	9	8	3	0.5	4	<0.5	6	10
561800	6384200	16087	0.35	-9000	13.0	-9000	7.5	10	12	10	0.5	6	<0.5	16	26
561800	6384400	16088	0.70	-9000	3.0	-9000	22.5	7	6	5	0.5	4	<0.5	6	10
561800	6384600	16089	0.80	-9000	13.0	-9000	17.5	10	9	5	0.5	5	<0.5	10	18
561800	6384800	16090	0.50	-9000	21.0	-9000	9.5	13	12	4	0.5	6	<0.5	12	26
561800	6385000	16091	0.70	-9000	18.0	-9000	4.8	12	14	4	1	6	<0.5	14	28
561800	6385200	16092	0.75	-9000	10.0	-9000	16.5	12	10	4	0.5	5	<0.5	8	17
561800	6385400	16093	0.80	-9000	15.0	-9000	12	12	12	5	0.5	7	<0.5	12	25
561800	6385600	16094	0.95	-9000	29.0	-9000	8	15	14	4	0.5	7	<0.5	12	30
561800	6385800	16095	0.75	-9000	11.0	-9000	16.5	10	9	5	0.5	5	<0.5	10	18
561800	6386000	16096	0.55	-9000	11.0	-9000	6	8	9	3	1	4	<0.5	22	16
562000	6383000	16097	1.20	-9000	4.5	-9000	13	7	9	5	1	4	<0.5	6	9
562000	6383200	16098	1.60	-9000	23.0	-9000	7	12	12	9	1	5	<0.5	10	14
562000	6383400	16099	1.10	-9000	25.0	-9000	10.5	10	12	6	1	5	<0.5	12	16
562000	6383600	16100	0.55	-9000	6.5	-9000	22.5	8	6	4	0.5	4	<0.5	10	9
562000	6383800	16101	1.60	-9000	23.0	-9000	7	8	11	8	1	8	<0.5	14	12
562000	6384000	16102	0.45	-9000	37.0	-9000	0.71	15	17	4	1	8	<0.5	16	34
562000	6384200	16103	0.50	-9000	19.0	-9000	10	12	12	3	0.5	6	<0.5	12	24
562000	6384400	16104	0.65	-9000	4.5	-9000	20	7	7	5	0.5	4	<0.5	8	12
562000	6384600	16105	0.35	-9000	21.0	-9000	9	12	11	4	0.5	5	<0.5	14	25
562000	6384800	16106	0.60	-9000	20.0	-9000	10.5	12	12	4	0.5	5	<0.5	10	21
562000	6385000	16107	0.55	-9000	4.5	-9000	19	8	7	4	0.5	4	<0.5	6	12
562000	6385200	16108	0.65	-9000	17.0	-9000	3.9	14	15	4	0.5	6	<0.5	16	28
562000	6385400	16109	0.80	-9000	10.0	-9000	14.5	8	8	4	0.5	4	<0.5	10	15
562000	6385600	16110	0.65	-9000	23.0	-9000	3.9	14	13	4	0.5	7	<0.5	16	26
562000	6385800	16111	0.50	-9000	44.0	-9000	1.95	16	16	3	0.5	8	<0.5	16	36
562000	6386000	16112	0.80	-9000	22.0	-9000	6.5	8	9	6	0.5	4	<0.5	26	11
562200	6383000	16113	1.40	-9000	4.0	-9000	16	7	9	5	2	3	<0.5	4	6
562200	6383200	16114	1.30	-9000	15.0	-9000	9	10	9	6	2	3	<0.5	6	8
562200	6383400	16115	1.10	-9000	28.0	-9000	10	7	8	7	0.5	4	<0.5	8	9
562200	6383600	16116	1.30	-9000	11.0	-9000	13	6	6	5	1	4	<0.5	6	7
562200	6383800	16117	1.50	-9000	3.5	-9000	15	13	9	7	0.5	5	<0.5	10	17
562200	6384000	16118	0.60	-9000	30.0	-9000	1.05	15	14	3	0.5	7	<0.5	14	38
562200	6384200	16119	0.55	-9000	13.0	-9000	9.5	11	11	3	0.5	5	<0.5	10	21
562200	6384400	16120	0.80	-9000	5.0	-9000	18.5	9	7	4	0.5	4	<0.5	8	13
562200	6384600	16121	0.60	-9000	6.0	-9000	21.5	7	6	6	0.5	4	<0.5	10	12
562200	6384800	16122	0.80	-9000	4.5	-9000	23	7	6	4	0.5	4	<0.5	6	11
562200	6385000	16123	0.85	-9000	3.5	-9000	18.5	8	7	7	0.5	4	<0.5	10	13

TABLE 1. Black Eagle Calcrete Data

Easting	Northing	S/no	Au (BLEG)	Au Dupl	Ag(BLEG)	Ag Dupl	Ca	Cu	Ni	As	Mo	Co	Ag	Pb	Zn
562200	6385200	16124	0.80	-9000	14.0	-9000	7	12	12	4	0.5	5	<0.5	12	23
562200	6385400	16125	0.80	-9000	19.0	-9000	15	10	9	3	0.5	4	<0.5	8	15
562200	6385600	16126	1.40	-9000	11.0	-9000	7.5	13	12	4	0.5	6	<0.5	14	24
562200	6385800	16127	0.80	-9000	18.0	-9000	10.5	12	11	4	0.5	6	<0.5	12	23
562200	6386000	16128	0.95	-9000	15.0	-9000	11.5	9	9	10	1	5	<0.5	28	9
562400	6383000	16129	1.60	-9000	3.0	-9000	22	10	7	7	1	3	<0.5	4	7
562400	6383200	16130	0.85	-9000	16.0	-9000	9	8	9	7	0.5	5	<0.5	6	11
562400	6383400	16131	1.40	-9000	20.0	-9000	14.5	7	8	6	1	5	<0.5	6	9
562400	6383600	16132	1.30	-9000	3.5	-9000	18	8	7	4	0.5	4	<0.5	6	7
562400	6383800	16133	1.00	-9000	6.5	-9000	17	6	9	7	0.5	8	<0.5	8	9
562400	6384000	16134	0.50	-9000	8.5	-9000	16.5	7	7	4	0.5	4	<0.5	8	14
562400	6384200	16135	0.75	-9000	4.0	-9000	21.5	7	6	3	0.5	4	<0.5	6	10
562400	6384400	16136	0.95	-9000	2.5	-9000	22	6	5	4	0.5	3	<0.5	4	9
562400	6384600	16137	0.80	-9000	11.0	-9000	16.5	9	7	8	0.5	4	<0.5	10	15
562400	6384800	16138	0.50	-9000	10.0	-9000	16	8	6	5	0.5	4	<0.5	10	13
562400	6385000	16139	0.40	-9000	7.5	-9000	10.5	8	5	3	1	4	<0.5	18	24
562400	6385200	16140	1.20	-9000	3.0	-9000	14	10	8	5	0.5	4	<0.5	8	15
562400	6385400	16141	1.10	-9000	2.5	-9000	14	9	8	5	0.5	4	<0.5	10	14
562400	6385600	16142	0.75	-9000	27.0	-9000	3	20	17	5	0.5	8	<0.5	18	43
562400	6385800	16143	0.70	-9000	5.0	-9000	20.5	10	9	4	0.5	5	<0.5	10	15
562400	6386000	16144	1.10	-9000	13.0	-9000	13	11	11	6	0.5	5	<0.5	18	14
562600	6383000	16145	0.85	-9000	5.5	-9000	21	7	5	3	0.5	3	<0.5	6	8
562600	6383200	16146	1.40	-9000	3.0	-9000	21	10	8	3	0.5	4	<0.5	6	8
562600	6383400	16147	0.95	-9000	2.5	-9000	19	11	9	5	0.5	4	<0.5	6	8
562600	6383600	16148	1.30	-9000	4.5	-9000	15.5	11	6	5	1	4	<0.5	6	10
562600	6383800	16149	0.40	-9000	43.0	-9000	0.88	18	17	4	0.5	10	<0.5	22	34
562600	6384000	16150	0.80	-9000	12.0	-9000	18	9	8	4	0.5	4	<0.5	10	14
562600	6384200	16151	0.95	-9000	4.0	-9000	21.5	6	5	3	0.5	4	<0.5	6	9
562600	6384400	16152	1.10	-9000	4.0	-9000	20	7	6	3	0.5	4	<0.5	6	10
562600	6384600	16153	1.40	-9000	5.0	-9000	26.5	9	7	6	0.5	6	<0.5	6	10
562600	6384800	16154	2.40	-9000	4.5	-9000	20.5	7	6	5	0.5	4	<0.5	6	11
562600	6385000	16155	0.80	-9000	7.0	-9000	14.5	10	8	4	0.5	4	<0.5	12	16
562600	6385200	16156	0.85	-9000	4.5	-9000	16	9	9	3	0.5	4	<0.5	10	14
562600	6385400	16157	0.65	-9000	10.0	-9000	8	9	6	6	1	4	<0.5	16	21
562600	6385600	16158	0.80	-9000	9.0	-9000	12.5	9	8	5	0.5	4	<0.5	12	16
562600	6385800	16159	0.80	-9000	2.0	-9000	19.5	8	6	4	0.5	4	<0.5	6	9
562600	6386000	16160	0.90	-9000	25.0	-9000	18.5	7	5	3	0.5	4	<0.5	8	9
562800	6383000	16161	1.50	-9000	2.0	-9000	19.5	8	7	3	0.5	3	<0.5	6	6
562800	6383200	16162	1.20	-9000	2.0	-9000	19	8	8	3	0.5	3	<0.5	4	8
562800	6383400	16163	0.95	-9000	2.5	-9000	19	9	5	4	1	3	<0.5	6	12
562800	6383600	16164	1.60	-9000	13.0	-9000	11.5	10	9	6	0.5	6	<0.5	8	11

TABLE 1. Black Eagle Calcrete Data

Easting	Northing	S/no	Au (BLEG)	Au Dupl	Ag(BLEG)	Ag Dupl	Ca	Cu	Ni	As	Mo	Co	Ag	Pb	Zn
562800	6383800	16165	0.60	-9000	12.0	-9000	15	10	8	4	0.5	4	<0.5	8	16
562800	6384000	16166	0.80	-9000	3.5	-9000	16.5	6	5	4	0.5	3	<0.5	8	12
562800	6384200	16167	1.20	-9000	8.0	-9000	21	6	5	3	0.5	3	<0.5	6	8
562800	6384400	16168	0.80	-9000	4.0	-9000	19	7	6	4	0.5	4	<0.5	8	10
562800	6384600	16169	1.10	-9000	13.0	-9000	21	7	5	4	0.5	4	<0.5	6	10
562800	6384800	16170	0.85	-9000	2.0	-9000	18.5	8	6	4	0.5	4	<0.5	8	11
562800	6385000	16171	0.90	-9000	3.5	-9000	21	8	7	4	0.5	4	<0.5	6	12
562800	6385200	16172	0.60	-9000	6.5	-9000	10	7	5	4	1	4	<0.5	12	21
562800	6385400	16173	1.10	-9000	25.0	-9000	14	12	9	6	0.5	5	<0.5	8	17
562800	6385600	16174	0.45	-9000	65.0	-9000	2.3	16	16	3	0.5	8	<0.5	14	34
562800	6385800	16175	1.00	-9000	4.5	-9000	19	8	6	4	0.5	4	<0.5	8	11
562800	6386000	16176	1.20	-9000	11.0	-9000	19.5	7	6	5	0.5	4	<0.5	6	10
563000	6383000	16177	1.70	-9000	3.5	-9000	21	8	6	3	1	4	<0.5	4	8
563000	6383200	16178	1.00	-9000	2.5	-9000	19	8	5	3	0.5	3	<0.5	4	8
563000	6383400	16179	1.20	-9000	3.5	-9000	20	6	5	4	0.5	3	<0.5	4	24
563000	6383600	16180	1.00	-9000	3.0	-9000	21	7	6	5	2	3	<0.5	4	6
563000	6383800	16181	0.90	-9000	32.0	-9000	14.5	7	6	3	0.5	5	<0.5	8	13
563000	6384000	16182	0.60	-9000	7.5	-9000	17.5	7	7	3	0.5	4	<0.5	6	13
563000	6384200	16183	0.95	-9000	3.0	-9000	18	6	7	5	0.5	4	<0.5	6	12
563000	6384400	16184	0.90	-9000	3.5	-9000	21.5	7	5	5	0.5	3	<0.5	6	10
563000	6384600	16185	0.90	-9000	4.5	-9000	18.5	6	5	5	0.5	4	<0.5	8	12
563000	6384800	16186	0.50	-9000	5.5	-9000	25	6	4	3	0.5	5	<0.5	4	6
563000	6385000	16187	1.10	-9000	5.5	-9000	20	8	6	4	0.5	4	<0.5	6	11
563000	6385200	16188	1.10	-9000	7.5	-9000	23.5	9	7	4	0.5	4	<0.5	6	12
563000	6385400	16189	1.00	-9000	7.5	-9000	9.5	13	13	5	0.5	6	<0.5	12	27
563000	6385600	16190	0.90	-9000	1.0	-9000	26.5	7	5	3	0.5	5	<0.5	4	6
563000	6385800	16191	1.20	-9000	5.0	-9000	17.5	9	8	7	0.5	4	<0.5	6	11
563000	6386000	16192	1.20	-9000	4.5	-9000	16	11	9	6	0.5	4	<0.5	8	13
563200	6383000	16193	1.20	-9000	6.0	-9000	9	8	8	7	1	10	<0.5	8	10
563200	6383200	16194	1.20	-9000	1.5	-9000	19	8	6	3	0.5	3	<0.5	4	7
563200	6383400	16195	1.10	-9000	2.0	-9000	21	9	7	4	0.5	3	<0.5	4	7
563200	6383600	16196	0.90	-9000	2.0	-9000	25	7	5	4	0.5	3	<0.5	4	7
563200	6383800	16197	0.95	-9000	44.0	-9000	13	9	9	4	0.5	6	<0.5	8	13
563200	6384000	16198	0.80	-9000	12.0	-9000	17.5	9	9	3	0.5	4	<0.5	6	15
563200	6384200	16199	1.30	-9000	2.5	-9000	21	7	6	4	0.5	4	<0.5	6	11
563200	6384400	16200	0.65	-9000	17.0	-9000	18.5	9	9	5	0.5	6	<0.5	10	16
563200	6384600	16201	1.70	-9000	6.0	-9000	26.5	7	6	5	0.5	4	<0.5	4	6
563200	6384800	16202	0.80	-9000	5.0	-9000	22	5	4	4	0.5	3	<0.5	6	9
563200	6385000	16203	0.95	-9000	4.0	-9000	23.5	7	5	4	0.5	3	<0.5	6	9
563200	6385200	16204	1.10	-9000	11.0	-9000	6.5	15	16	5	0.5	7	<0.5	16	33
563200	6385400	16205	1.40	-9000	11.0	-9000	18	10	8	8	0.5	5	<0.5	8	14

TABLE 1. Black Eagle Calcrete Data

Easting	Northing	S/no	Au (BLEG)	Au Dupl	Ag(BLEG)	Ag Dupl	Ca	Cu	Ni	As	Mo	Co	Ag	Pb	Zn
563200	6385600	16206	0.90	-9000	8.0	-9000	23	7	6	7	0.5	3	<0.5	6	10
563200	6385800	16207	0.95	-9000	6.0	-9000	16	12	10	5	0.5	4	<0.5	8	18
563200	6386000	16208	0.95	-9000	12.0	-9000	14	8	8	9	0.5	5	<0.5	10	13
563400	6383000	16209	1.60	-9000	2.0	-9000	13.5	9	7	5	0.5	5	<0.5	4	7
563400	6383200	16210	1.00	-9000	2.5	-9000	18.5	10	8	3	0.5	4	<0.5	4	10
563400	6383400	16211	0.95	-9000	5.0	-9000	21.5	6	4	3	0.5	4	<0.5	0	4
563400	6383600	16212	1.00	-9000	5.0	-9000	20.5	6	5	3	0.5	3	<0.5	4	6
563400	6383800	16213	0.70	-9000	23.0	-9000	13	9	9	3	0.5	4	<0.5	8	14
563400	6384000	16214	1.70	-9000	12.0	-9000	17.5	7	6	5	0.5	4	<0.5	4	9
563400	6384200	16215	1.30	-9000	4.5	-9000	20	6	6	4	0.5	4	<0.5	6	9
563400	6384400	16216	0.70	-9000	5.5	-9000	24	6	5	3	0.5	4	<0.5	4	7
563400	6384600	16217	1.00	-9000	4.5	-9000	20	6	6	3	0.5	4	<0.5	4	8
563400	6384800	16218	0.75	-9000	9.0	-9000	15.5	10	6	6	0.5	4	<0.5	10	17
563400	6385000	16219	0.95	-9000	6.5	-9000	22.5	7	5	4	0.5	3	<0.5	4	9
563400	6385200	16220	1.00	-9000	7.5	-9000	17	8	6	10	0.5	4	<0.5	8	10
563400	6385400	16221	1.30	-9000	14.0	-9000	17.5	8	7	7	0.5	4	<0.5	8	10
563400	6385600	16222	0.95	-9000	6.0	-9000	21	7	5	6	0.5	3	<0.5	6	9
563400	6385800	16223	1.30	-9000	2.0	-9000	19.5	7	6	7	0.5	4	<0.5	6	9
563400	6386000	16224	1.20	-9000	12.0	-9000	19	9	7	6	0.5	4	<0.5	8	11
563600	6383000	16225	1.30	-9000	25.0	-9000	10	9	7	6	0.5	2	<0.5	4	5
563600	6383200	16226	1.60	-9000	8.0	-9000	9	8	7	7	1	7	<0.5	8	8
563600	6383400	16227	1.40	-9000	2.5	-9000	19.5	8	6	3	0.5	3	<0.5	0	5
563600	6383600	16228	1.10	-9000	5.5	-9000	11	7	6	6	0.5	4	<0.5	6	6
563600	6383800	16229	0.60	-9000	10.0	-9000	13	8	6	3	2	4	<0.5	6	12
563600	6384000	16230	0.95	-9000	5.0	-9000	19	6	5	4	0.5	3	<0.5	4	9
563600	6384200	16231	0.90	-9000	20.0	-9000	15	7	5	6	0.5	3	<0.5	10	12
563600	6384400	16232	1.00	-9000	2.0	-9000	20	6	4	4	0.5	3	<0.5	6	7
563600	6384600	16233	1.30	-9000	8.5	-9000	21	6	5	3	0.5	3	<0.5	4	8
563600	6384800	16234	0.95	-9000	6.0	-9000	22.5	7	5	4	0.5	4	<0.5	4	7
563600	6385000	16235	0.80	-9000	5.5	-9000	22	6	5	3	0.5	3	<0.5	4	6
563600	6385200	16236	0.90	-9000	13.0	-9000	16	7	7	7	0.5	4	<0.5	8	9
563600	6385400	16237	1.30	-9000	8.5	-9000	17	6	6	7	0.5	4	<0.5	6	8
563600	6385600	16238	1.40	-9000	17.0	-9000	10.5	8	6	8	0.5	3	<0.5	6	10
563600	6385800	16239	1.30	-9000	7.0	-9000	20.5	8	7	7	0.5	4	<0.5	6	9
563600	6386000	16240	1.30	-9000	13.0	-9000	17	11	9	5	0.5	5	<0.5	8	12
563800	6383000	16241	1.40	-9000	15.0	-9000	6.5	7	5	7	1	4	<0.5	6	7
563800	6383200	16242	1.80	-9000	23.0	-9000	10.5	9	8	6	0.5	4	<0.5	4	7
563800	6383400	16243	2.10	-9000	1.5	-9000	17	9	8	5	0.5	4	<0.5	4	6
563800	6383600	16244	1.40	-9000	12.0	-9000	12.5	6	5	5	0.5	4	<0.5	6	8
563800	6383800	16245	1.00	-9000	6.0	-9000	20.5	7	5	4	0.5	3	<0.5	4	8
563800	6384000	16246	1.30	-9000	14.0	-9000	18	8	8	4	0.5	4	<0.5	6	12

TABLE 1. Black Eagle Calcrete Data

Easting	Northing	S/no	Au (BLEG)	Au Dupl	Ag(BLEG)	Ag Dupl	Ca	Cu	Ni	As	Mo	Co	Ag	Pb	Zn
563800	6384200	16247	0.95	-9000	5.0	-9000	17.5	8	7	5	0.5	4	<0.5	10	12
563800	6384400	16248	0.85	-9000	3.5	-9000	20	6	5	4	0.5	4	<0.5	6	8
563800	6384600	16249	1.00	-9000	3.0	-9000	24.5	6	4	3	0.5	3	<0.5	4	6
563800	6384800	16250	1.00	-9000	1.5	-9000	23	7	5	4	0.5	3	<0.5	4	6
563800	6385000	16251	1.00	-9000	6.0	-9000	20.5	8	7	5	0.5	5	<0.5	8	11
563800	6385200	16252	1.20	-9000	14.0	-9000	18	7	7	5	0.5	5	<0.5	6	15
563800	6385400	16253	0.80	-9000	22.0	-9000	10	15	13	4	0.5	6	<0.5	12	24
563800	6385600	16254	1.30	-9000	2.0	-9000	18.5	8	6	6	0.5	4	<0.5	6	12
563800	6385800	16255	1.00	-9000	10.0	-9000	20	7	7	7	0.5	5	<0.5	10	13
563800	6386000	16256	1.80	-9000	6.5	-9000	20.5	11	10	5	0.5	5	<0.5	8	16
564000	6383000	16257	1.40	-9000	13.0	-9000	7	10	9	8	2	4	<0.5	6	11
564000	6383200	16258	1.00	-9000	33.0	-9000	4.6	7	5	5	2	3	<0.5	4	7
564000	6383400	16259	1.20	-9000	17.0	-9000	11	10	10	5	0.5	4	<0.5	6	8
564000	6383600	16260	0.85	-9000	11.0	-9000	17.5	7	6	4	0.5	4	<0.5	8	11
564000	6383800	16261	1.30	-9000	6.0	-9000	19	6	5	4	1	3	<0.5	6	9
564000	6384000	16262	0.60	-9000	2.5	-9000	19	8	8	4	0.5	4	<0.5	8	10
564000	6384200	16263	0.95	-9000	11.0	-9000	20.5	8	8	5	0.5	4	<0.5	6	18
564000	6384400	16264	0.70	-9000	6.0	-9000	22.5	7	6	3	0.5	4	<0.5	6	12
564000	6384600	16265	1.50	-9000	7.5	-9000	19.5	8	7	5	0.5	3	<0.5	6	9
564000	6384800	16266	1.60	-9000	8.5	-9000	19	8	7	5	0.5	4	<0.5	6	9
564000	6385000	16267	1.30	-9000	29.0	-9000	18.5	6	6	6	0.5	4	<0.5	6	8
564000	6385200	16268	1.20	-9000	161.0	-9000	20	8	7	6	0.5	4	<0.5	6	8
564000	6385400	16269	1.60	-9000	6.0	-9000	14	8	8	7	0.5	8	<0.5	14	10
564000	6385600	16270	1.10	-9000	34.0	-9000	9.5	8	5	12	2	4	<0.5	18	19
564000	6385800	16271	1.30	-9000	10.0	-9000	15	11	10	9	0.5	7	<0.5	14	20
564000	6386000	16272	1.40	-9000	14.0	-9000	15	11	10	8	0.5	6	<0.5	10	19
564000	6386000	16273	1.10	-9000	13.0	-9000	18.5	8	7	7	0.5	5	<0.5	8	13
561400	6385000	16437	0.80	-9000	10.0	-9000	17	7	6	4	0.5	4	<0.5	6	10
561400	6385050	16438	0.80	-9000	9.0	-9000	19	11	8	4	0.5	4	<0.5	6	16
561400	6385100	16439	0.85	-9000	18.0	-9000	14	11	10	3	0.5	6	<0.5	8	22
561400	6385150	16440	0.45	-9000	6.5	-9000	17.5	9	7	2	0.5	5	<0.5	6	14
561400	6385200	16441	0.60	-9000	51.0	-9000	8	11	9	4	1	5	<0.5	10	21
561450	6385000	16442	0.70	-9000	8.0	-9000	17.5	12	8	4	0.5	6	<0.5	6	16
561450	6385050	16443	1.10	-9000	13.0	-9000	18.5	9	8	5	0.5	4	<0.5	6	12
561450	6385100	16444	1.30	-9000	12.0	-9000	18	9	7	4	0.5	4	<0.5	6	12
561450	6385150	16445	0.85	-9000	16.0	-9000	10.5	12	11	4	0.5	6	<0.5	10	26
561450	6385200	16446	0.55	-9000	22.0	-9000	8	13	13	5	0.5	6	<0.5	12	27
561500	6385000	16447	0.60	-9000	16.0	-9000	15.5	9	8	3	1	4	<0.5	8	16
561500	6385050	16448	0.70	-9000	9.0	-9000	17.5	9	8	4	0.5	4	<0.5	6	13
561500	6385100	16449	0.75	-9000	43.0	-9000	3.4	15	14	9	0.5	6	<0.5	12	25
561500	6385150	16450	0.90	-9000	11.0	-9000	13.5	10	8	6	0.5	4	<0.5	8	15

TABLE 1. Black Eagle Calcrete Data

Easting	Northing	S/no	Au (BLEG)	Au Dupl	Ag(BLEG)	Ag Dupl	Ca	Cu	Ni	As	Mo	Co	Ag	Pb	Zn
561500	6385200	16451	0.85	-9000	10.0	-9000	3.9	14	13	6	0.5	6	<0.5	12	23
561550	6385000	16452	0.65	-9000	12.0	-9000	12	9	9	4	0.5	3	<0.5	8	11
561550	6385050	16453	0.75	-9000	23.0	-9000	10.5	10	9	4	1	5	<0.5	8	16
561550	6385100	16454	0.95	-9000	8.0	-9000	14	11	10	4	1	5	<0.5	8	20
561550	6385150	16455	0.90	-9000	15.0	-9000	15	12	12	3	0.5	5	<0.5	8	17
561550	6385200	16456	0.80	-9000	24.0	-9000	4.5	12	12	3	0.5	7	<0.5	12	25
561600	6385000	16457	0.70	-9000	9.5	-9000	14.5	10	9	3	0.5	5	<0.5	8	16
561600	6385050	16458	0.60	-9000	34.0	-9000	4.4	13	13	3	0.5	6	<0.5	10	25
561600	6385100	16459	0.60	-9000	13.0	-9000	17.5	8	6	3	1	4	<0.5	6	11
561600	6385150	16460	0.90	-9000	14.0	-9000	15.5	9	8	3	0.5	4	<0.5	8	13
561600	6385200	16461	1.00	-9000	6.5	-9000	18	11	9	3	0.5	4	<0.5	6	13
561650	6385000	16462	0.75	-9000	5.5	-9000	19.5	7	6	4	0.5	4	<0.5	8	10
561650	6385050	16463	0.65	-9000	3.5	-9000	22	7	6	3	0.5	3	<0.5	6	9
561650	6385100	16464	0.65	-9000	9.5	-9000	15.5	9	9	6	0.5	5	<0.5	12	16
561650	6385150	16465	0.60	-9000	12.0	-9000	14.5	7	6	3	1	4	<0.5	8	13
561650	6385200	16466	0.65	-9000	9.5	-9000	17	9	8	4	0.5	4	<0.5	8	13
561700	6385000	16467	0.75	-9000	7.5	-9000	19	9	8	3	0.5	4	<0.5	6	12
561700	6385050	16468	0.85	-9000	7.0	-9000	21.5	7	6	3	1	4	<0.5	6	10
561700	6385100	16469	0.65	-9000	6.0	-9000	17	8	7	2	0.5	4	<0.5	6	11
561700	6385150	16470	0.80	-9000	7.5	-9000	19	9	8	4	0.5	4	<0.5	6	11
561700	6385200	16471	0.90	-9000	13.0	-9000	17.5	9	8	3	0.5	5	<0.5	8	14
561750	6385000	16472	0.65	-9000	4.5	-9000	13.5	9	8	3	0.5	4	<0.5	6	13
561750	6385050	16473	0.90	-9000	10.0	-9000	16.5	10	9	3	0.5	5	<0.5	6	13
561750	6385100	16474	0.65	-9000	38.0	-9000	1.65	14	14	3	2	8	<0.5	14	41
561750	6385150	16475	0.85	-9000	13.0	-9000	17	9	8	3	0.5	5	<0.5	8	15
561750	6385200	16476	1.00	-9000	5.0	-9000	20	9	9	3	0.5	4	<0.5	6	12
561800	6385000	16477	0.90	-9000	11.0	-9000	10	10	10	4	0.5	5	<0.5	10	20
561800	6385050	16478	0.65	-9000	11.0	-9000	13	10	9	3	0.5	5	<0.5	8	18
561800	6385100	16479	1.30	-9000	8.5	-9000	19.5	9	8	3	0.5	4	<0.5	6	13
561800	6385150	16480	0.75	-9000	3.0	-9000	20	9	7	3	0.5	4	<0.5	8	17
561800	6385200	16481	1.10	-9000	2.0	-9000	24	10	8	4	0.5	5	<0.5	6	15
562800	6383600	16482	1.30	-9000	4.5	-9000	15.5	11	12	4	0.5	5	<0.5	6	9
562800	6383650	16483	1.40	-9000	5.5	-9000	9.5	6	7	7	1	5	<0.5	6	10
562800	6383700	16484	0.95	-9000	12.0	-9000	10.5	8	8	13	2	5	<0.5	6	6
562800	6383750	16485	1.30	-9000	19.0	-9000	4.7	11	14	10	0.5	10	<0.5	18	14
562800	6383800	16486	0.75	-9000	13.0	-9000	17.5	8	7	4	1	4	<0.5	8	17
562850	6383600	16487	1.20	-9000	1.5	-9000	23.5	7	7	4	0.5	4	<0.5	4	8
562850	6383650	16488	1.60	-9000	1.5	-9000	19.5	9	10	4	0.5	5	<0.5	6	8
562850	6383700	16489	1.30	-9000	14.0	-9000	15	6	5	4	2	4	<0.5	4	7
562850	6383750	16490	1.40	-9000	11.0	-9000	15.5	8	8	7	2	4	<0.5	6	7
562850	6383800	16491	0.70	-9000	8.5	-9000	22.5	7	6	3	0.5	5	<0.5	8	12

TABLE 1. Black Eagle Calcrete Data

Easting	Northing	S/no	Au (BLEG)	Au Dupl	Ag(BLEG)	Ag Dupl	Ca	Cu	Ni	As	Mo	Co	Ag	Pb	Zn
562900	6383600	16492	0.80	-9000	6.0	-9000	21	6	6	4	1	4	<0.5	6	9
562900	6383650	16493	1.40	-9000	4.0	-9000	12.5	8	7	6	1	3	<0.5	4	8
562900	6383700	16494	1.10	-9000	2.5	-9000	22	8	9	3	0.5	4	<0.5	4	8
562900	6383750	16495	1.30	-9000	3.0	-9000	14.5	7	9	5	1	6	<0.5	6	11
562900	6383800	16496	0.65	-9000	18.0	-9000	21.5	7	7	2	0.5	4	<0.5	6	12
562950	6383600	16497	1.30	-9000	8.0	-9000	6	9	11	7	0.5	5	<0.5	6	11
562950	6383650	16498	0.90	-9000	1.5	-9000	21.5	5	4	3	0.5	3	<0.5	4	6
562950	6383700	16499	1.30	-9000	3.5	-9000	9	9	9	5	1	5	<0.5	6	8
562950	6383750	16500	1.10	-9000	16.0	-9000	9.5	8	10	6	0.5	5	<0.5	6	11
562950	6383800	16501	0.70	-9000	16.0	-9000	18.5	6	6	3	0.5	4	<0.5	6	12
563000	6383600	16502	1.10	-9000	8.5	-9000	22	8	7	3	1	3	<0.5	4	6
563000	6383650	16503	1.10	-9000	3.0	-9000	20	8	8	3	0.5	4	<0.5	4	7
563000	6383700	16504	1.50	-9000	2.0	-9000	21	6	5	4	1	3	<0.5	4	6
563000	6383750	16505	1.40	-9000	18.0	-9000	14	7	7	4	0.5	4	<0.5	6	9
563000	6383800	16506	0.75	-9000	18.0	-9000	15.5	9	9	3	0.5	5	<0.5	10	16
560800	6385630	18301	1.2	-9000	24	-9000	19.5	13	10	5	0.5	5		8	17
561200	6386030	18302	0.65	-9000	12	-9000	10.5	13	14	6	0.5	7		16	31
561600	6386030	18303	1.7	-9000	33	-9000	11.5	18	17	7	0.5	7		16	38
561600	6385860	18304	1.2	-9000	21	-9000	16.5	16	13	6	0.5	6		12	27
561600	6385630	18305	0.8	-9000	27	-9000	6	14	15	5	0.5	8		14	36
561800	6385630	18306	1.1	-9000	22	-9000	16.5	14	12	6	0.5	6		12	24
561800	6386030	18307	0.85	-9000	7.5	-9000	13	9	9	5	0.5	4		20	15
562000	6386030	18308	1.8	-9000	31	-9000	17.5	10	9	8	0.5	5		18	16
562000	6385830	18309	0.55	-9000	9	-9000	19	10	9	8	0.5	6		14	18
562000	6385630	18310	0.75	-9000	10	-9000	8.5	16	18	7	0.5	8		18	39
562200	6385630	18311	0.45	-9000	8.5	-9000	15	10	11	6	0.5	7		16	25
562400	6385630	18312	1	0.95	6	6	16.5	12	11	7	0.5	6		12	23
562800	6385630	18313	1.5	-9000	14	-9000	19.5	11	7	6	0.5	5		8	10
563200	6385230	18314	1.1	-9000	6.5	-9000	18.5	10	8	10	0.5	5		12	15
562000	6385230	18315	0.95	-9000	14	-9000	9.5	17	17	7	0.5	7		14	37
561600	6384430	18316	0.65	-9000	26	-9000	6	17	19	6	0.5	9		18	49
561600	6384630	18317	0.45	-9000	23	-9000	3.9	14	17	6	0.5	8		18	39
561000	6384430	18318	0.75	0.75	8	7	14.5	11	11	6	0.5	5		10	21
560800	6384230	18319	0.55	-9000	13	-9000	7	16	18	6	0.5	9		18	43
560800	6384030	18320	0.8	-9000	7	-9000	10	17	19	8	0.5	8		16	40
561000	6384030	18321	0.85	-9000	33	-9000	5.5	15	17	8	0.5	8		16	40
561000	6384230	18322	-0.05	-9000	7.5	-9000	11.5	9	10	7	1	5		18	27
561200	6384230	18323	0.75	-9000	39	-9000	9.5	13	16	6	0.5	8		14	38
561800	6384230	18324	0.55	-9000	22	-9000	5.5	16	19	6	0.5	8		16	45
562000	6384030	18325	0.45	-9000	11	-9000	14	9	9	7	0.5	4		14	20
562000	6383330	18326	1.3	-9000	3.5	-9000	22.5	9	8	6	0.5	5		10	9

TABLE 1. Black Eagle Calcrete Data

Easting	Northing	S/no	Au (BLEG)	Au Dupl	Ag(BLEG)	Ag Dupl	Ca	Cu	Ni	As	Mo	Co	Ag	Pb	Zn
562600	6383830	18327	1.3	-9000	2.5	-9000	19	8	8	6	0.5	3		6	9
561800	6383630	18328	1.9	-9000	3.5	-9000	16.5	10	10	8	0.5	6		12	13
563800	6383030	18329	1.3	-9000	53	-9000	13.5	12	11	6	0.5	4		8	16
564000	6383030	18330	2	-9000	12	-9000	7.5	9	9	7	0.5	3		8	11
564000	6383230	18331	1.3	1.5	128	136	7	10	11	10	0.5	4		8	14
532015	6392810	18332	0.45	0.6	8	8.5	8.5	13	12	4	0.5	5		12	24
532034	6392353	18333	0.4	-9000	4	-9000	17	14	13	6	0.5	5		12	19
532039	6391990	18334	0.5	0.4	3	4	21.5	11	9	6	0.5	4		8	9
531940	6391175	18335	0.4	-9000	7.5	-9000	24.5	11	7	4	1	6		10	14
532975	6391109	18336	0.3	0.35	4.5	5	21	12	9	8	0.5	5		10	13
533018	6392006	18337	1.1	-9000	1.5	-9000	15.5	13	12	5	1	4		8	17
533005	6392693	18338	-0.05	-9000	11	-9000	6	13	14	3	0.5	5		12	30
534002	6392680	18339	1	-9000	5.5	-9000	13	17	15	7	0.5	5		8	24
534009	6391999	18340	0.15	-9000	11	-9000	8.5	13	14	3	0.5	5		10	27
534046	6391000	18341	0.35	-9000	6	-9000	10.5	11	11	3	0.5	5		8	20
535070	6390946	18342	0.7	-9000	9	-9000	22.5	12	8	3	0.5	4		8	7
534992	6390010	18343	0.25	-9000	4	-9000	25.5	10	7	2	0.5	8		6	5
535060	6388428	18344	0.5	-9000	26	-9000	27	9	8	5	0.5	6		8	5
536150	6387957	18345	0.55	-9000	6.5	-9000	5.5	8	11	4	2	3		12	13
536010	6389005	18346	1.3	-9000	3.5	-9000	20.5	13	11	5	0.5	4		8	15
536036	6390033	18347	1.6	-9000	18	-9000	16	13	14	11	0.5	6		10	22
536043	6390676	18348	1	-9000	14	-9000	11.5	10	11	9	2	4		16	21
536920	6390665	18349	-0.05	-9000	10	-9000	3.2	12	13	3	0.5	4		10	31
536800	6390019	18350	0.4	-9000	11	-9000	10.5	9	11	5	2	4		12	23
536473	6389436	18351	1.1	-9000	2.5	-9000	17	14	13	9	0.5	5		12	21
535990	6387943	18352	0.7	-9000	4.5	-9000	25	10	7	5	0.5	6		8	8
535310	6387124	18353	0.85	-9000	1.5	-9000	24.5	16	8	5	0.5	5		8	10
535219	6386557	18354	0.6	-9000	8	-9000	15	15	14	5	0.5	5		12	24
535472	6388844	18355	0.55	-9000	1.5	-9000	19	9	10	3	2	7		6	8
535306	6386989	18356	0.9	-9000	2	-9000	24.5	13	8	4	0.5	5		6	8
537073	6387300	18357	1.7	-9000	3	-9000	13	16	17	9	0.5	8		14	26
537997	6387080	18358	1.5	1.4	11	9.5	15	15	14	8	0.5	5		12	21
537936	6387837	18359	1.5	-9000	7.5	-9000	16.5	18	14	7	0.5	6		10	24
538036	6389193	18360	0.7	-9000	8	-9000	10.5	18	16	5	0.5	6		12	31
538106	6389923	18361	1.4	-9000	9.5	-9000	16.5	19	14	5	1	5		10	21
539202	6389958	18362	1.4	-9000	3.5	-9000	13	15	16	7	0.5	5		8	21
539525	6389056	18363	1.5	-9000	10	-9000	12.5	15	14	6	1	5		14	27
539381	6388800	18364	0.95	-9000	6	-9000	12	12	12	9	2	5		14	26
539270	6387874	18365	0.85	-9000	20	-9000	8	16	17	6	0.5	7		14	42
539290	6386981	18366	1.8	-9000	6	-9000	16	17	13	6	0.5	5		10	23
539998	6385998	18367	3	-9000	2	-9000	20	16	12	6	0.5	6		12	17

TABLE 1. Black Eagle Calcrete Data

Easting	Northing	S/no	Au (BLEG)	Au Dupl	Ag(BLEG)	Ag Dupl	Ca	Cu	Ni	As	Mo	Co	Ag	Pb	Zn
539990	6385365	18368	1.1	-9000	3	-9000	20.5	13	11	6	0.5	4		10	21
539994	6387012	18369	0.85	-9000	2	-9000	24	15	11	5	0.5	7		10	12
540142	6387531	18370	0.7	-9000	1	-9000	25	13	8	6	0.5	4		6	9
540032	6384022	18371	1	-9000	12	-9000	26	12	11	4	0.5	9		8	9
540450	6385094	18372	0.9	0.95	4	4	22.5	10	9	5	0.5	4		8	17
541073	6385680	18373	1.2	-9000	5.5	-9000	21.5	11	11	7	0.5	4		8	18
541519	6386472	18374	0.7	-9000	6	-9000	23	12	8	4	0.5	4		8	17
541162	6386605	18375	0.7	-9000	2	-9000	26.5	12	9	4	0.5	4		8	12
543947	6387051	18376	0.6	-9000	2	-9000	25.5	13	12	5	0.5	6		10	14
540981	6388045	18377	1	1	3	2.5	21	14	11	5	0.5	5		8	15
541035	6388998	18378	0.45	-9000	4	-9000	10.5	10	11	6	2	5		16	35
541013	6389999	18379	0.9	-9000	3	-9000	15	11	12	7	3	5		12	23
541001	6391094	18380	1	-9000	2	-9000	13.5	12	13	5	0.5	4		10	25
540479	6392075	18381	0.6	-9000	7.5	-9000	9.5	12	13	3	0.5	5		14	28
540141	6393056	18382	0.5	-9000	4	-9000	21.5	11	10	3	0.5	5		8	17
541030	6391943	18383	1.1	-9000	12	-9000	12	17	15	5	0.5	5		8	23
541876	6392191	18384	0.2	-9000	7.5	-9000	6	5	10	3	1	3		10	32
542044	6391272	18385	0.55	-9000	10	-9000	8.5	13	12	4	1	4		14	26
542032	6389978	18386	0.7	-9000	6	-9000	12	14	14	5	0.5	5		8	25
541996	6388772	18387	1	-9000	7.5	-9000	15.5	16	14	4	0.5	5		10	23
542206	6388148	18388	0.75	-9000	3.5	-9000	11	10	12	4	0.5	4		12	21
543024	6388024	18389	0.9	-9000	3	-9000	15.5	10	10	6	0.5	5		12	21
543016	6389024	18390	0.45	-9000	10	-9000	6	14	18	4	0.5	7		14	34
542989	6390016	18391	1.1	-9000	4.5	-9000	14.5	18	16	6	0.5	5		12	26
543004	6391007	18392	0.95	-9000	6	-9000	12	15	16	4	0.5	6		12	29
543027	6392025	18393	1.1	-9000	5	-9000	11.5	16	14	4	0.5	5		10	26
544033	6392016	18394	-0.05	-9000	5	-9000	1.6	4	9	3	0.5	4		30	61
544020	6391007	18395	0.45	-9000	23	-9000	3.9	9	13	3	0.5	5		12	27
543836	6390024	18396	0.25	-9000	23	-9000	3.8	10	12	4	0.5	6		14	29
543723	6388995	18397	1.2	-9000	3	-9000	14.5	13	14	6	0.5	5		8	19
544224	6388433	18398	0.4	0.4	8	8	21	7	5	5	0.5	4		6	16
544474	6387662	18399	0.9	-9000	1.5	-9000	20	8	10	6	0.5	6		10	12
544463	6386981	18400	1.5	-9000	2	-9000	21	9	10	7	0.5	5		10	17
544998	6386252	18401	0.9	0.9	1.5	1.5	22.5	8	8	6	0.5	5		10	8
545030	6386993	18402	1.3	-9000	2	-9000	17.5	12	14	6	0.5	6		12	17
545107	6387998	18403	0.75	-9000	7	-9000	11.5	10	13	5	0.5	5		14	26
545081	6388426	18404	0.55	-9000	3.5	-9000	20.5	8	7	10	0.5	5		14	9
545988	6388749	18405	0.55	-9000	11	-9000	9	10	11	4	0.5	4		10	22
545939	6388028	18406	0.95	-9000	5	-9000	13	7	9	3	0.5	4		10	17
545897	6386991	18407	1.5	-9000	3	-9000	17.5	12	15	6	0.5	6		12	20
545996	6386138	18408	0.85	-9000	1	-9000	22.5	8	5	3	0.5	3		6	6

TABLE 1. Black Eagle Calcrete Data

Easting	Northing	S/no	Au (BLEG)	Au Dupl	Ag(BLEG)	Ag Dupl	Ca	Cu	Ni	As	Mo	Co	Ag	Pb	Zn
547051	6384997	18409	0.95	-9000	2.5	-9000	23.5	9	6	2	0.5	4		4	6
548063	6384859	18410	1.1	-9000	2	-9000	26.5	7	5	4	0.5	5		4	6
549032	6383019	18411	0.8	-9000	2.5	-9000	26	8	5	4	0.5	3		4	6
549000	6382521	18412	0.75	0.65	1	1	20	10	8	3	0.5	5		6	8
549024	6384025	18413	0.9	-9000	2	-9000	18	10	10	3	0.5	4		8	16
548925	6385060	18414	2	-9000	2.5	-9000	19	11	12	7	0.5	5		12	16
548871	6385585	18415	1.3	-9000	3	-9000	13	10	12	7	0.5	8		16	17
550060	6385004	18416	0.7	-9000	6	-9000	16.5	6	4	6	1	2		16	20
549917	6383964	18417	2	-9000	3	-9000	18.5	12	11	4	0.5	4		6	16
549957	6383001	18418	1.4	-9000	4	-9000	13.5	9	11	4	0.5	4		8	16
550033	6382051	18419	0.6	-9000	3.5	-9000	9	9	10	3	0.5	4		6	16
549402	6380955	18420	0.45	-9000	2.5	-9000	11	10	9	2	1	5		6	15
549225	6380101	18421	0.45	-9000	2	-9000	8	8	10	3	0.5	3		6	19
549059	6379505	18422	0.3	-9000	4	-9000	26	9	8	3	1	9		8	6
550077	6379579	18423	0.9	0.9	8.5	9	9	14	12	2	0.5	5		8	24
550239	6379886	18424	0.4	-9000	9.5	-9000	9	6	7	3	2	4		16	28
551022	6380017	18425	0.5	-9000	7	-9000	6.5	9	10	2	2	4		10	23
551898	6379994	18426	0.75	-9000	4	-9000	12	11	11	4	0.5	4		6	18
552104	6380933	18427	0.55	-9000	3	-9000	8	7	10	3	0.5	3		6	15
551985	6382053	18428	0.55	-9000	3	-9000	8.5	7	9	2	0.5	3		6	13
551026	6382051	18429	0.4	-9000	6	-9000	7.5	9	11	2	1	4		8	18
551037	6382998	18430	0.85	-9000	3.5	-9000	9	8	9	3	0.5	3		6	8
550969	6384014	18431	0.85	-9000	7	-9000	26.5	8	8	5	0.5	8		6	4
551000	6385012	18432	0.95	0.8	0.5	0.5	26	9	7	4	0.5	4		4	3
550976	6386031	18433	0.9	-9000	6	-9000	12.5	11	11	11	0.5	4		14	9
550906	6387015	18434	0.8	-9000	6	-9000	12	15	17	6	0.5	6		16	14
551957	6387017	18435	0.55	-9000	7.5	-9000	4.7	6	10	4	0.5	3		14	14
551574	6388033	18436	0.25	-9000	16	-9000	1.75	6	12	4	1	4		16	21
551222	6389029	18437	0.2	-9000	37	-9000	2.3	8	11	3	0.5	5		14	19
550447	6389978	18438	0.35	-9000	3	-9000	17	7	8	4	1	4		8	8
549159	6390968	18439	0.9	0.85	3	3	19	12	10	4	0.5	4		10	9
548715	6391019	18440	0.85	-9000	6	-9000	5.5	17	19	4	0.5	7		18	25
548626	6391502	18441	0.65	-9000	7	-9000	14.5	13	16	4	0.5	6		14	16
548854	6391463	18442	0.9	-9000	21	-9000	9	10	12	5	0.5	5		16	27
548916	6392026	18443	0.85	-9000	1.5	-9000	18	11	11	4	0.5	5		10	19
548607	6392047	18444	0.65	-9000	5	-9000	13.5	7	9	5	0.5	4		14	17
548341	6392651	18445	0.75	-9000	3.5	-9000	10	19	19	5	0.5	6		14	38
548116	6393047	18446	1	-9000	7	-9000	14.5	17	17	4	0.5	6		14	33
547673	6393452	18447	1	-9000	3.5	-9000	15	20	17	7	0.5	7		10	32
548014	6393531	18448	1	-9000	3.5	-9000	13.5	17	18	5	0.5	6		14	33
548230	6393573	18449	1	-9000	2.5	-9000	20.5	11	10	3	0.5	4		8	13

TABLE 1. Black Eagle Calcrete Data

Easting	Northing	S/no	Au (BLEG)	Au Dupl	Ag(BLEG)	Ag Dupl	Ca	Cu	Ni	As	Mo	Co	Ag	Pb	Zn
548557	6394112	18450	0.7	-9000	10	-9000	7	10	13	3	1	5		12	26
548320	6394287	18451	0.55	-9000	14	-9000	7.5	18	18	4	0.5	8		16	38
553000	6386088	18452	1.4	-9000	5	-9000	16.5	12	11	9	0.5	5		10	13
552045	6385491	18453	1	-9000	1.5	-9000	21.5	11	9	5	0.5	7		10	9
551915	6385077	18454	1.9	-9000	3.5	-9000	14	8	11	8	0.5	5		14	15
552189	6384046	18455	1.3	-9000	2.5	-9000	15	10	14	14	2	6		32	-1
552000	6383004	18456	1.5	-9000	3	-9000	27.5	9	5	5	1	4		4	1
553037	6379846	18457	1.4	-9000	4.5	-9000	5	10	13	10	0.5	5		10	17
553966	6380066	18458	1.3	-9000	4	-9000	13	12	13	5	0.5	5		8	13
553505	6381000	18459	1.2	-9000	2	-9000	23.5	15	7	3	0.5	4		6	8
553600	6381994	18460	1.4	-9000	3	-9000	23.5	13	7	5	0.5	4		6	7
553505	6382811	18461	0.85	-9000	4.5	-9000	21	6	6	3	0.5	2		8	3
553930	6383489	18462	1.4	1.3	2	2.5	18.5	10	11	8	0.5	7		12	13
553890	6386068	18463	0.75	-9000	3	-9000	10.5	10	12	9	0.5	5		12	21
554253	6385000	18464	1	-9000	6	-9000	0.99	7	13	13	0.5	6		18	20
555147	6384093	18465	0.9	-9000	3	-9000	27.5	9	8	4	0.5	7		6	7
554932	6382820	18466	2.5	-9000	2.5	-9000	18	12	10	6	0.5	4		6	8
555003	6382002	18467	0.75	-9000	7.5	-9000	6	9	12	2	2	4		8	16
554234	6380600	18468	1	-9000	5.5	-9000	8.5	9	12	4	2	3		6	13
555190	6381144	18469	1.3	-9000	7.5	-9000	10.5	8	11	7	2	4		10	5
555848	6383051	18470	0.85	-9000	1.5	-9000	22.5	12	8	3	0.5	4		6	7
556048	6382051	18471	1.6	1.4	2.5	3	19	12	10	5	0.5	4		6	8
556094	6383990	18472	0.7	0.55	3	2	27.5	9	7	4	0.5	6		12	9
556293	6385035	18473	5.5	-9000	6.5	-9000	17.5	12	11	10	0.5	5		14	10
556021	6386020	18474	1.2	-9000	3	-9000	20	12	11	7	1	6		12	9
556959	6386493	18475	2.4	-9000	4	-9000	16.5	17	17	9	0.5	6		12	18
557043	6385885	18476	1.1	-9000	4	-9000	8	10	16	16	1	8		18	20
556994	6385112	18477	2.1	-9000	2	-9000	22.5	10	7	13	0.5	4		8	2
558120	6385926	18478	1.7	-9000	4.5	-9000	6.5	11	19	15	1	11		24	19
558343	6385024	18479	2.3	-9000	4	-9000	15	24	16	-1	2	6		16	190
558336	6384228	18480	1.3	-9000	4	-9000	7.5	21	16	9	3	4		14	71
558126	6383011	18481	2.6	-9000	2.5	-9000	13.5	20	15	3	3	9		12	55
558045	6382002	18482	1.2	-9000	5.5	-9000	9.5	19	13	2	4	3		8	36
559002	6382082	18483	1.2	-9000	4.5	-9000	7	18	12	4	3	3		14	48
559004	6383062	18484	2.5	-9000	3	-9000	18.5	20	11	-1	2	6		6	29
559055	6384044	18485	1.6	-9000	7	-9000	5.5	22	16	9	3	6		12	56
559427	6385041	18486	1.2	1.2	2.5	2.5	23	17	10	-1	3	1		8	20
559025	6385970	18487	2	-9000	3	-9000	16	26	18	5	3	5		14	62
559929	6386100	18488	1.5	-9000	5	-9000	10	24	16	7	2	1		14	36
560050	6384978	18489	1.1	-9000	2	-9000	21.5	17	9	-1	2	2		18	28
560014	6383985	18490	1.5	-9000	3.5	-9000	10	19	13	5	3	4		14	31

TABLE 1. Black Eagle Calcrete Data

Easting	Northing	S/no	Au (BLEG)	Au Dupl	Ag(BLEG)	Ag Dupl	Ca	Cu	Ni	As	Mo	Co	Ag	Pb	Zn
559978	6382978	18491	2.2	-9000	4	-9000	15.5	21	12	-1	3	6		4	31
560187	6382451	18492	1.1	-9000	2	-9000	18	21	10	-1	3	-1		-3	27
564000	6385200	18493	1.5	-9000	3	-9000	18.5	19	10	1	3	4		8	30
564000	6385250	18494	1.2	1.3	3	2.5	18	18	11	2	3	3		14	31
564000	6385150	18495	0.9	-9000	3	-9000	23	18	8	-1	14	2		10	35
563950	6385200	18496	1.2	-9000	2.5	-9000	20	17	11	-1	3	-1		14	22
564050	6385200	18497	1.7	-9000	2.5	-9000	16.5	19	13	2	2	5		10	25
564000	6383250	18498	1.3	-9000	6	-9000	5	20	12	11	3	6		8	29
564000	6383150	18499	2.2	-9000	3.5	-9000	6.5	18	10	12	3	6		12	27
564050	6383200	18500	2.1	-9000	4.5	-9000	6	18	10	10	4	3		4	22
563950	6383200	18501	1.9	-9000	3	-9000	3.3	17	10	16	3	4		10	23
564096	6382275	18502	2.1	-9000	3.5	-9000	8	21	13	7	3	4		14	23
564911	6382111	18503	2.3	-9000	2.5	-9000	8.5	21	15	8	3	9		8	38
564750	6381049	18504	2.1	-9000	5	-9000	17	19	10	-1	1	4		6	14
563790	6382467	18505	1.5	-9000	2.5	-9000	21.5	20	12	-1	2	4		16	35
563714	6382036	18506	1.2	-9000	1.5	-9000	23.5	20	10	-1	2	5		8	15
563703	6381498	18507	1.9	-9000	2	-9000	17.5	22	14	2	3	4		6	20
563017	6381018	18508	1.6	-9000	7.5	-9000	11	21	14	4	2	5		6	26
564002	6381006	18509	1.4	-9000	3	-9000	13	18	13	3	3	4		8	23
564021	6380412	18510	1.1	-9000	11	-9000	6	17	12	8	3	6		8	23
564094	6380139	18511	0.85	-9000	2	-9000	21	19	13	-1	3	1		4	24
563649	6380101	18512	1.2	1	2	1.5	19.5	19	10	-1	2	-1		10	12
565195	6379035	18513	0.6	-9000	1.5	-9000	20.5	18	9	1	2	3		6	14
565285	6378065	18514	1.6	1.6	2.5	2	19.5	19	11	-1	3	2		-3	18
565551	6377025	18515	1.1	-9000	5.5	-9000	7.5	20	14	5	2	8		12	32
566413	6375903	18516	1.1	-9000	2.5	-9000	24	20	9	-1	3	2		6	14
567134	6374971	18517	1	-9000	4	-9000	14.5	17	11	-1	2	2		10	23
567959	6373867	18518	1.4	-9000	2	-9000	16	25	14	-1	2	3		4	23
567393	6373101	18519	1.6	-9000	4	-9000	13	21	15	4	3	6		8	24
568605	6372999	18520	1.7	-9000	2.5	-9000	23	22	10	-1	2	-1		8	16
568474	6373943	18521	1.1	-9000	1.5	-9000	23	28	12	-1	2	-1		-3	17
569010	6374018	18522	1.7	-9000	6	-9000	19.5	28	15	4	3	1		4	9
569033	6373089	18523	1.9	-9000	4.5	-9000	7	21	14	9	3	5		6	27
569997	6372652	18524	1.9	-9000	6	-9000	13.5	23	16	1	4	1		6	13
570553	6372807	18525	1.1	-9000	5	-9000	16	23	14	-1	3	3		8	24
571313	6373365	18526	1.3	-9000	6	-9000	9.5	20	12	2	3	5		8	25
570509	6373283	18527	0.9	-9000	7	-9000	4.8	15	7	6	4	2		20	17
569753	6373060	18528	0.9	-9000	3	-9000	14	22	13	2	3	2		4	23
569445	6374237	18529	1.8	-9000	7	-9000	12	22	16	2	3	6		6	25
569775	6375083	18530	2.3	-9000	3	-9000	17.5	17	12	3	2	3		6	14
568951	6374984	18531	0.8	-9000	6.5	-9000	8.5	17	17	3	4	1		8	25

TABLE 1. Black Eagle Calcrete Data

Easting	Northing	S/no	Au (BLEG)	Au Dupl	Ag(BLEG)	Ag Dupl	Ca	Cu	Ni	As	Mo	Co	Ag	Pb	Zn
568014	6375105	18532	0.4	-9000	21	-9000	2.2	14	11	4	4	4		6	21
564996	6378018	18533	1.1	-9000	7	-9000	8.5	14	14	5	4	7		6	24
566072	6378049	18534	1.1	-9000	5	-9000	10.5	14	12	5	3	4		-3	18
566802	6378075	18535	1.6	-9000	8.5	-9000	12	18	13	2	2	4		6	22
567511	6377647	18536	1.6	-9000	11	-9000	14.5	15	10	2	3	7		10	13
568547	6377805	18537	1.1	-9000	4.5	-9000	18.5	13	9	-1	2	-1		6	8
569319	6376494	18538	1.8	-9000	3	-9000	17.5	15	9	-1	2	5		8	11
569916	6376125	18539	1.9	-9000	6	-9000	13.5	16	13	5	3	8		12	19
566777	6378717	18540	1.1	-9000	2.5	-9000	16	16	13	2	3	3		6	13
567870	6378982	18541	1.2	-9000	3	-9000	27	14	9	-1	3	3		8	7
568152	6379499	18542	2	-9000	3	-9000	12.5	17	11	3	4	3		18	17
567661	6378207	18543	2.4	2.4	4	3.5	19.5	15	10	-1	3	4		8	12
569033	6378512	18544	1.6	-9000	2	-9000	22	16	10	-1	3	3		8	9
569637	6379022	18545	1.4	-9000	4	-9000	20.5	14	9	-1	2	4		12	14
569266	6378107	18546	2	-9000	3.5	-9000	17.5	16	10	-1	3	4		10	15
570049	6377996	18547	0.8	-9000	2	-9000	21	15	10	-1	3	-1		6	10
570835	6377940	18548	1.3	-9000	4.5	-9000	25	13	7	-1	5	-1		10	5
570476	6377197	18549	1.2	-9000	2.5	-9000	20.5	20	11	-1	4	-1		8	17
569599	6376738	18550	1.3	-9000	5.5	-9000	11	17	13	5	2	2		6	17
566442	6379054	18551	1.4	-9000	8	-9000	7.5	14	14	9	3	8		10	19
566433	6379532	18552	1	-9000	2.5	-9000	22	16	12	-1	4	6		10	15
566734	6380051	18553	2.1	1.9	2.5	2	16	18	12	2	4	4		6	18
566653	6380597	18554	1.3	-9000	4.5	-9000	11.5	16	11	3	4	4		-3	13
566143	6380718	18555	1.4	-9000	3	-9000	17.5	15	10	-1	4	2		-3	14
566442	6380179	18556	1.7	-9000	4	-9000	11	17	13	2	2	6		10	22
566318	6379615	18557	1.1	-9000	2.5	-9000	23	16	12	-1	1	3		12	9
565934	6379092	18558	0.9	-9000	5.5	-9000	10.5	17	13	5	3	3		6	26
560058	6388192	18559	0.45	-9000	9.5	-9000	4.8	14	9	3	1	4		12	23
559110	6389049	18560	0.5	-9000	5	-9000	7	14	14	3	2	6		10	39
558360	6389874	18561	1.2	-9000	4	-9000	10.5	15	15	4	3	6		18	28
557730	6390472	18562	2.1	-9000	6.5	-9000	22	16	11	-1	1	5		8	21
557142	6390176	18563	0.65	-9000	10	-9000	10	16	10	4	3	5		20	41
556426	6390106	18564	1.1	-9000	5	-9000	13	17	14	-1	2	6		10	28
556638	6390853	18565	0.4	-9000	10	-9000	6	16	13	7	2	8		8	34
557501	6390910	18566	0.35	-9000	9.5	-9000	4	15	10	3	3	7		14	37
558036	6391155	18567	0.6	-9000	28	-9000	5	17	14	6	2	7		16	39
557385	6391877	18568	1.3	-9000	4.5	-9000	14	17	14	-1	2	5		10	27
556653	6391372	18569	0.75	-9000	20	-9000	4.3	19	16	6	2	8		16	43
556145	6391367	18570	0.55	-9000	13	-9000	6	17	15	6	3	6		4	34
557087	6392266	18571	0.5	-9000	6.5	-9000	6	13	12	4	4	6		10	34
557968	6392744	18572	0.9	-9000	5.5	-9000	10	16	16	5	2	3		14	36

TABLE 1. Black Eagle Calcrete Data

Easting	Northing	S/no	Au (BLEG)	Au Dupl	Ag(BLEG)	Ag Dupl	Ca	Cu	Ni	As	Mo	Co	Ag	Pb	Zn
558037	6393177	18573	0.55	-9000	23	-9000	3	18	16	6	2	9		18	50
558343	6394176	18574	0.35	-9000	12	-9000	3.9	15	12	5	2	7		14	49
557821	6394756	18575	0.65	-9000	6	-9000	8.5	18	19	4	2	6		6	43
558475	6394606	18576	1	-9000	3.5	-9000	11	13	11	2	2	2		8	29
558598	6393915	18577	0.75	-9000	7.5	-9000	8.5	21	18	4	3	6		12	40
558739	6393040	18578	0.7	-9000	5.5	-9000	4.2	17	15	7	3	5		14	38
558811	6392212	18579	1	-9000	4	-9000	11	20	15	3	2	3		4	29
558089	6391768	18580	1	-9000	6.5	-9000	4	19	19	6	2	8		12	52
558976	6390889	18581	1.1	-9000	4.5	-9000	10.5	17	12	4	2	3		12	25
559121	6390050	18582	0.9	1	3	3	12.5	17	10	-1	2	3		12	22
559772	6390013	18583	0.65	-9000	13	-9000	5.5	20	16	7	3	7		14	37
559979	6391046	18584	0.55	-9000	24	-9000	4.9	22	16	7	2	7		18	43
560240	6392025	18585	0.65	-9000	9.5	-9000	5.5	20	18	4	1	6		12	42
560677	6393015	18586	0.4	-9000	19	-9000	1.45	19	14	6	1	7		10	34
560569	6394114	18587	0.7	-9000	12	-9000	9	20	14	2	1	5		12	44
560823	6394685	18588	1.1	-9000	3.5	-9000	13.5	22	16	2	2	3		10	38
561436	6394498	18589	0.8	-9000	7	-9000	10	24	14	-1	3	7		12	33
561422	6393514	18590	0.9	-9000	7	-9000	8.5	22	15	4	1	4		12	37
562175	6392928	18591	0.5	-9000	9	-9000	6	20	13	7	2	5		12	36
563147	6392573	18592	0.8	-9000	4.5	-9000	4.3	16	9	9	16	5		14	42
562624	6392651	18593	1.1	-9000	3.5	-9000	11.5	17	11	3	2	6		14	42
561123	6390666	18594	0.65	-9000	4	-9000	8.5	20	13	3	2	4		10	29
562014	6390673	18595	1.4	-9000	5.5	-9000	7	19	7	15	2	1		4	4
562830	6390866	18596	1.1	-9000	5	-9000	18.5	18	10	-1	1	4		14	28
562375	6389992	18597	0.45	-9000	8	-9000	3.7	20	15	7	3	6		18	37
561448	6388961	18598	0.8	-9000	4.5	-9000	11.5	23	17	2	2	5		8	33
560804	6388028	18599	0.6	-9000	6.5	-9000	6	20	14	7	3	6		14	34
561007	6386977	18600	0.65	0.6	20	20	3.9	13	18	5	3	8		16	49
561985	6386913	18601	1.5	-9000	3.5	-9000	16	12	16	4	2	7		16	23
563019	6386958	18602	1.3	-9000	3	-9000	5.5	10	17	14	2	9		12	29
564030	6386953	18603	1.5	-9000	16	-9000	11	12	15	7	1	13		40	13
565043	6387033	18604	1.4	-9000	4.5	-9000	13.5	11	14	4	2	4		12	16
565743	6387180	18605	1.1	-9000	4	-9000	12.5	13	18	-1	1	8		14	31
565885	6388025	18606	1.5	-9000	2.5	-9000	17	10	13	2	2	5		12	19
566026	6388943	18607	0.45	-9000	8.5	-9000	6	7	11	6	3	7		10	36
566218	6390034	18608	1.4	-9000	1.5	-9000	14.5	10	13	4	1	4		10	23
566398	6391047	18609	0.9	-9000	8.5	-9000	32.5	5	6	-1	3	2		12	4
566007	6391789	18610	0.55	-9000	14	-9000	6.5	8	12	7	3	6		16	31
565094	6391407	18611	0.5	-9000	13	-9000	3.3	21	14	8	2	6		16	41
564139	6391381	18612	0.8	-9000	9.5	-9000	12	18	11	3	3	7		12	30
564426	6392201	18613	0.95	-9000	4.5	-9000	12	19	13	1	3	5		12	31

TABLE 1. Black Eagle Calcrete Data

Easting	Northing	S/no	Au (BLEG)	Au Dupl	Ag(BLEG)	Ag Dupl	Ca	Cu	Ni	As	Mo	Co	Ag	Pb	Zn
565579	6386439	18614	1.9	-9000	2	-9000	22.5	19	12	3	2	2		6	15
564938	6385954	18615	0.95	-9000	2	-9000	22.5	19	7	9	3	3		8	15
565007	6384979	18616	1.7	-9000	1.5	-9000	18	18	13	7	2	4		12	21
564566	6384016	18617	0.6	-9000	7.5	-9000	19	17	9	1	3	3		12	25
564691	6382994	18618	1.8	-9000	3	-9000	15	19	11	6	3	4		6	16
566238	6387039	18619	1.1	-9000	3.5	-9000	21	20	11	8	2	4		16	35
567252	6388046	18620	1.3	-9000	4	-9000	19	23	15	2	2	6		14	33
568067	6389073	18621	1.9	-9000	3.5	-9000	14.5	20	13	6	1	1		12	53
568255	6390044	18622	0.9	0.8	3	3	15.5	19	11	2	1	5		16	34
569025	6390016	18623	1	-9000	7.5	-9000	9.5	20	11	6	2	4		10	33
569260	6390853	18624	3	-9000	7.5	-9000	17	29	14	3	2	1		6	10
569371	6391043	18625	2.6	-9000	12	-9000	18	17	7	3	2	2		4	17
569332	6391207	18626	3	3	10	10	13.5	19	9	11	2	1		16	16
569531	6391243	18627	1.6	-9000	4.5	-9000	10	19	9	19	3	4		16	22
569544	6391108	18628	3	-9000	11	-9000	20.5	16	5	4	1	-1		-3	12
569630	6390933	18629	0.7	-9000	1.5	-9000	1.9	13	4	10	2	1		-3	14
570173	6391530	18630	2.1	-9000	4.5	-9000	19	21	12	2	2	5		14	31
570967	6392062	18631	1.4	-9000	13	-9000	14	23	15	6	2	7		16	49
572050	6392108	18632	0.75	-9000	14	-9000	12	18	10	6	3	3		16	21
573048	6392148	18633	0.8	-9000	2	-9000	11	14	12	7	3	4		6	25
574059	6392179	18634	1.7	-9000	2	-9000	14.5	16	12	9	3	7		8	25
575020	6392225	18635	0.85	-9000	6.5	-9000	5.5	16	11	12	3	9		10	32
576029	6392274	18636	1.6	-9000	2	-9000	15	15	12	7	2	4		6	25
576409	6391989	18637	1.8	-9000	3.5	-9000	15.5	16	11	9	3	3		8	22
576293	6391043	18638	0.6	-9000	21	-9000	2	15	11	10	2	7		8	32
576023	6391081	18639	0.45	0.45	20	19	2.3	17	15	9	4	8		14	39
575006	6391008	18640	0.7	-9000	22	-9000	3.1	18	16	16	3	11		16	42
574011	6390994	18641	0.65	-9000	11	-9000	6	17	13	9	3	5		12	32
573172	6391045	18642	1.7	-9000	4.5	-9000	22	16	10	2	3	2		4	10
571005	6390000	18643	0.95	-9000	5.5	-9000	10	17	13	9	3	5		12	24
572060	6390111	18644	0.95	-9000	1.5	-9000	16.5	19	12	5	3	7		6	19
573045	6389984	18645	1.1	-9000	2	-9000	18	22	19	21	4	4		10	31
574004	6390003	18646	1.9	-9000	6	-9000	23	39	16	8	3	-1		6	16
574831	6390051	18647	0.95	-9000	2	-9000	21	23	9	19	6	-1		-3	9
576022	6390028	18648	1	-9000	2	-9000	23.5	16	10	4	4	1		6	16
575967	6389001	18649	0.7	-9000	1.5	-9000	14.5	14	10	7	4	6		8	12
574916	6389011	18650	1.6	-9000	12	-9000	21	73	23	5	4	2		-3	11
574675	6389021	18651	1	-9000	16	-9000	11	58	12	33	16	3		-3	14
573990	6388990	18652	1	0.75	2.5	3	2.8	43	9	29	11	3		6	34
572959	6388989	18653	0.75	-9000	3	-9000	17.5	15	9	3	4	4		-3	9
571990	6389035	18654	0.65	-9000	2.5	-9000	28.5	16	8	1	3	3		4	10

TABLE 1. Black Eagle Calcrete Data

Easting	Northing	S/no	Au (BLEG)	Au Dupl	Ag(BLEG)	Ag Dupl	Ca	Cu	Ni	As	Mo	Co	Ag	Pb	Zn
570996	6389018	18655	1.4	-9000	1	-9000	27	15	10	3	4	2		-3	13
570024	6389014	18656	0.6	-9000	10	-9000	4	13	5	12	5	2		10	11
568964	6389000	18657	1.3	-9000	5	-9000	18	17	11	6	2	4		6	27
568008	6388999	18658	1.9	-9000	2	-9000	14	16	14	8	3	7		6	26
566399	6386010	18659	1.3	-9000	1.5	-9000	18.5	14	11	6	2	5		6	13
567065	6385874	18660	1.3	-9000	1.5	-9000	23	12	7	4	2	3		4	13
567019	6387019	18661	1.2	-9000	7	-9000	20	14	11	6	3	3		8	20
568018	6386896	18662	1.9	-9000	1.5	-9000	16	15	12	11	3	5		12	19
569065	6387107	18663	1.2	-9000	1.5	-9000	20	14	10	6	2	4		14	18
570019	6387290	18664	0.5	-9000	13	-9000	6.5	15	12	14	2	7		18	33
569681	6386049	18665	1	1	2	1.5	3.6	13	9	18	2	3		10	23
569054	6385238	18666	0.9	-9000	2	-9000	24.5	15	8	1	2	3		8	11
572027	6387294	BEA-01	1.2	-9000	1.5	-9000	23.5	10	9	7	0.5	4		6	18
573003	6387285	BEA-02	1	-9000	2	-9000	11.5	11	9	4	1.1	3		6	21
573935	6387259	BEA-03	0.8	-9000	6.5	-9000	15.5	9	7	6	1.8	3		6	11
575083	6386962	BEA-04	0.6	-9000	1.5	-9000	12.5	36	22	7	1.3	12		4	51
574994	6386016	BEA-05	1.1	-9000	3.5	-9000	14.5	51	17	94	9.5	7		10	53
574019	6385999	BEA-06	0.8	-9000	4.5	-9000	11.5	14	12	6	2.5	4		8	21
573020	6386030	BEA-07	0.9	-9000	0.5	-9000	30.5	11	7	4	0.5	3		6	14
572083	6386042	BEA-08	1.2	-9000	2.5	-9000	29.5	9	6	4	0.3	4		6	13
571010	6386033	BEA-09	1.1	-9000	1	-9000	23.5	7	6	7	1.1	3		6	17
570104	6384698	BEA-10	1	-9000	1.5	-9000	21	8	7	5	0.5	3		8	19
571046	6384537	BEA-11	0.95	-9000	8.5	-9000	32	10	6	3	0.6	5		4	10
572019	6384095	BEA-12	1.8	1.7	10	10	34.5	12	8	3	0.6	5		4	13
573040	6383848	BEA-13	1.2	-9000	1.5	-9000	23.5	8	7	4	0.8	3		4	15
574040	6383183	BEA-14	0.55	-9000	4.5	-9000	34	12	6	3	0.4	5		4	11
574720	6381838	BEA-15	1	-9000	5.5	-9000	33	10	6	3	0.7	4		4	11
574694	6380972	BEA-16	0.75	-9000	2	-9000	28.5	8	5	2	0.5	3		4	11
573969	6381018	BEA-17	0.35	-9000	9	-9000	33.5	9	7	2	0.6	6		4	10
573012	6381121	BEA-18	0.75	-9000	1	-9000	35	8	5	2	0.5	2		4	10
571998	6381228	BEA-19	0.5	-9000	4.5	-9000	31	11	6	3	0.5	5		4	10
570944	6381286	BEA-20	1.5	-9000	5.5	-9000	39	11	6	2	0.5	3		4	12
570016	6381370	BEA-21	1.1	-9000	6.5	-9000	37	8	6	2	0.4	3		6	13
569003	6381413	BEA-22	0.85	-9000	17	-9000	27.5	8	7	2	0.4	3		6	15
569026	6382011	BEA-23	1	-9000	4	-9000	25	9	8	3	0.7	4		8	20
570003	6382026	BEA-24	1	-9000	1	-9000	30.5	9	6	2	0.4	2		4	13
571007	6382024	BEA-25	1.1	-9000	4.5	-9000	32	11	7	2	0.4	6		6	13
572014	6382000	BEA-26	0.65	-9000	7.5	-9000	21.5	12	8	2	0.8	5		8	19
572985	6382055	BEA-27	0.35	-9000	8	-9000	36	11	8	2	0.5	8		6	14
574017	6382041	BEA-28	0.8	0.7	20	20	33	16	10	3	0.4	7		6	22
574620	6379957	BEA-29	0.35	-9000	2	-9000	30.5	14	7	2	0.4	4		4	15

TABLE 1. Black Eagle Calcrete Data

Easting	Northing	S/no	Au (BLEG)	Au Dupl	Ag(BLEG)	Ag Dupl	Ca	Cu	Ni	As	Mo	Co	Ag	Pb	Zn
574594	6378956	BEA-30	0.85	-9000	2.5	-9000	27.5	16	7	2	0.6	3		4	17
575480	6377933	BEA-31	0.7	-9000	4	-9000	12.5	12	12	2	2.2	4		8	25
574458	6376122	BEA-32	0.85	-9000	17	-9000	20	13	9	2	1.5	6		4	15
574477	6373039	BEA-33	1.2	-9000	3	-9000	22	13	9	2	0.9	7		4	11
575111	6372445	BEA-34	0.65	-9000	1.5	-9000	20.5	11	8	3	0.8	4		4	12
577099	6373014	BEA-35	0.95	-9000	2	-9000	11.5	10	10	2	1.3	4		4	19
576538	6374027	BEA-36	1	-9000	1	-9000	14.5	12	12	3	1.3	5		6	19
577321	6375040	BEA-37	0.65	-9000	1	-9000	31.5	10	7	2	0.7	4		6	14
575024	6375814	BEA-38	1.2	-9000	3	-9000	24	13	7	2	1	5		4	10
577081	6375368	BEA-39	0.4	-9000	0.5	-9000	21	10	7	4	0.9	4		8	17
578017	6375117	BEA-40	0.55	-9000	7.5	-9000	19.5	11	9	2	1.7	6		6	15
579073	6374822	BEA-41	0.95	-9000	3.5	-9000	24	11	7	2	1.4	4		6	11
579970	6374457	BEA-42	0.5	-9000	0.5	-9000	28.5	9	6	3	0.7	5		4	8
580959	6374092	BEA-43	1.1	-9000	1	-9000	18.5	9	7	3	1.4	6		4	12
583207	6374567	BEA-44	0.95	-9000	3.5	-9000	21	7	5	2	1.3	4		-3	8
584387	6374479	BEA-45	0.55	-9000	0.5	-9000	20	9	5	2	1.9	2		-3	7
578233	6377058	BEA-46	1.1	1.1	1	1.5	23.5	21	8	2	1.3	4		4	17
578393	6378113	BEA-47	0.65	-9000	1.5	-9000	20.5	19	10	3	1.5	4		4	22
578607	6379180	BEA-48	1.4	-9000	0.5	-9000	32	25	8	3	0.6	6		4	13
579187	6380000	BEA-49	0.85	-9000	3.5	-9000	16.5	48	11	7	5	9		6	46
576307	6380834	BEA-50	1.2	-9000	1	-9000	30.5	14	10	4	1	4		4	17
577012	6380785	BEA-51	0.75	-9000	0.5	-9000	27	12	7	2	0.8	3		4	10
578043	6380717	BEA-52	0.75	0.85	1.5	1.5	10	10	9	1	2.3	4		4	16
579021	6380686	BEA-53	0.65	-9000	13	-9000	36.5	23	14	2	1.6	10		4	20
579999	6380575	BEA-54	0.9	-9000	1.5	-9000	33	13	8	2	0.8	6		6	13
581005	6380777	BEA-55	0.95	-9000	2.5	-9000	9.5	6	8	2	2.9	3		4	11
582162	6381109	BEA-56	0.65	-9000	7.5	-9000	8	11	10	2	2.2	4		8	26
582981	6381400	BEA-57	0.25	-9000	7.5	-9000	0.28	5	3	2	3.5	1		18	26
577078	6392347	BEA-58	0.9	-9000	3	-9000	14.5	10	10	4	1.3	6		12	27
578013	6392397	BEA-59	0.55	-9000	6.5	-9000	8.5	11	13	5	2.5	6		12	40
579071	6392560	BEA-60	0.7	-9000	2	-9000	15.5	13	10	5	1.9	5		10	30
580063	6392238	BEA-61	0.3	-9000	5.5	-9000	26.5	9	7	1	1.2	4		10	17
581005	6392040	BEA-62	0.5	-9000	4.5	-9000	17	12	10	2	0.8	5		12	33
582088	6390685	BEA-63	1	-9000	3.5	-9000	12.5	9	10	4	2.9	5		6	18
583378	6390660	BEA-64	0.85	-9000	4	-9000	9.5	18	12	3	2.6	5		8	24
583053	6390041	BEA-65	0.85	-9000	3.5	-9000	32.5	10	6	2	0.5	4		4	11
581989	6390028	BEA-66	1.1	-9000	2	-9000	14	12	12	3	1.5	5		8	29
581022	6391051	BEA-67	0.55	-9000	16	-9000	7	9	11	3	2.1	4		14	34
580007	6390982	BEA-68	1.2	-9000	1	-9000	35.5	16	8	4	0.5	2		6	11
579013	6391042	BEA-69	1	-9000	1.5	-9000	24.5	23	10	4	0.7	3		4	15
578994	6389954	BEA-70	1.7	-9000	5	-9000	11.5	17	11	3	2.3	2		6	16

TABLE 1. Black Eagle Calcrete Data

Easting	Northing	S/no	Au (BLEG)	Au Dupl	Ag(BLEG)	Ag Dupl	Ca	Cu	Ni	As	Mo	Co	Ag	Pb	Zn
579989	6390006	BEA-71	0.5	-9000	6.5	-9000	29	12	7	2	1.2	7		4	15
581004	6390023	BEA-72	0.8	0.5	9	8.5	37.5	20	9	1	0.8	7		6	21
582024	6388996	BEA-73	1.5	-9000	8.5	-9000	30.5	12	5	3	0.7	2		4	11
581018	6389024	BEA-74	0.95	-9000	2	-9000	31	8	5	4	0.4	3		4	11
579997	6389012	BEA-75	0.85	-9000	1.5	-9000	26.5	20	8	6	0.5	3		4	12
577984	6389026	BEA-76	1.2	-9000	1.5	-9000	14	12	10	4	1.4	4		6	19
577036	6389010	BEA-77	0.5	-9000	2.5	-9000	13.5	20	22	12	2.4	10		10	50
577986	6387990	BEA-78	1	-9000	3	-9000	22.5	11	8	5	0.9	3		6	15
585784	6381528	BEA-79	1.3	-9000	3.5	-9000	29	12	7	3	0.7	5		4	11
584977	6381968	BEA-80	0.9	-9000	1	-9000	19.5	12	9	3	1	4		4	16
583984	6382611	BEA-81	0.95	0.8	4.5	4	9	13	10	9	0.8	4		12	35
583567	6383273	BEA-82	0.9	-9000	1.5	-9000	18	13	9	4	1	5		8	25
582924	6384008	BEA-83	0.65	-9000	8	-9000	3.9	6	10	6	3.9	3		8	16
582325	6385027	BEA-84	1.2	-9000	2	-9000	15	10	8	3	1.1	4		6	19
581894	6386086	BEA-85	0.75	-9000	1.5	-9000	16.5	10	9	3	1.9	4		8	23
582166	6386999	BEA-86	0.75	-9000	12	-9000	28.5	12	6	2	0.6	7		4	14
582377	6388496	BEA-87	0.65	-9000	3	-9000	8.5	6	8	26	3.9	4		22	23
582042	6388011	BEA-88	0.65	-9000	3.5	-9000	10	11	9	3	1.7	4		8	27
581546	6387518	BEA-89	0.55	-9000	2	-9000	16	14	9	3	2	3		6	26
580866	6387065	BEA-90	0.7	-9000	21	-9000	31.5	12	6	2	0.7	3		4	13
579941	6386493	BEA-91	1.1	-9000	27	-9000	33.5	21	8	2	1.1	8		4	16
579577	6385956	BEA-92	1.2	-9000	7.5	-9000	31	17	8	3	0.8	4		6	18
579413	6384952	BEA-93	1.2	-9000	10	-9000	24.5	14	10	5	3.1	5		8	24
579200	6383978	BEA-94	0.45	-9000	32	-9000	32	12	8	2	1	6		6	18
579303	6382978	BEA-95	0.65	-9000	5	-9000	30	15	9	3	1	5		6	16
579269	6382022	BEA-96	0.45	-9000	6.5	-9000	32.5	14	7	3	0.9	5		6	13
582972	6382703	BEA-97	0.85	-9000	4	-9000	25	18	10	4	1	5		6	22
582004	6382314	BEA-98	0.45	-9000	18	-9000	9	11	10	4	1.8	3		20	17
581010	6381636	BEA-99	1.2	-9000	3	-9000	16.5	7	6	1	2.3	2		6	5
579988	6381911	BEA-100	0.8	-9000	6	-9000	29.5	11	8	3	0.5	4		4	10
578000	6382475	BEA-101	0.65	-9000	4	-9000	25	30	13	4	1.1	5		8	22
577033	6382804	BEA-102	0.75	-9000	6.5	-9000	17.5	15	13	6	1.9	8		6	24
575997	6382842	BEA-103	0.75	-9000	3.5	-9000	9.5	11	9	4	2.2	2		22	7
575056	6382962	BEA-104	0.8	0.9	13	15	13	14	11	7	1.2	6		8	23
574993	6382048	BEA-105	0.75	-9000	31	-9000	15.5	13	8	8	1.3	4		6	18
575893	6382020	BEA-106	0.85	-9000	4	-9000	29	14	7	3	0.7	4		6	16
576610	6382012	BEA-107	0.7	-9000	7	-9000	8	7	8	3	2.3	3		4	14
553516	6378982	BEA-108	0.6	-9000	1	-9000	12	9	10	5	1	3		6	18
552816	6378208	BEA-109	1	-9000	13	-9000	4.1	9	9	10	1.2	5		10	25
551977	6377247	BEA-110	1.1	-9000	9.5	-9000	6	11	12	9	2.1	8		10	23
551397	6376536	BEA-111	1	-9000	2	-9000	27.5	12	10	3	1	9		8	11

TABLE 1. Black Eagle Calcrete Data

Easting	Northing	S/no	Au (BLEG)	Au Dupl	Ag(BLEG)	Ag Dupl	Ca	Cu	Ni	As	Mo	Co	Ag	Pb	Zn
551506	6377484	BEA-112	0.95	0.85	6.5	5.5	8	7	7	4	1.2	2		4	16
552655	6378619	BEA-113	0.4	-9000	7	-9000	31	10	6	2	0.7	6		4	12
552001	6378852	BEA-114	0.6	-9000	0.5	-9000	26.5	21	6	8	0.5	2		8	11
558258	6384972	BEA-115	1.5	-9000	4.5	-9000	13.5	9	10	4	0.5	4		10	29
558320	6385008	BEA-116	1.2	-9000	5	-9000	14.5	9	11	5	0.6	5		12	30
558424	6385057	BEA-117	0.7	-9000	3	-9000	11	8	10	5	1.6	5		18	33
558386	6384840	BEA-118	0.6	-9000	6	-9000	14	7	7	8	1	4		12	20
558293	6385207	BEA-119	1.7	-9000	2	-9000	16.5	10	9	7	0.8	5		12	25
561603	6385917	BEG-01	0.8	-9000	6	-9000	12.5	14	12	4	0.6	5		12	37
561817	6385923	BEG-02	0.7	-9000	10	-9000	9	13	12	4	0.8	6		12	36
562023	6385891	BEG-03	0.65	-9000	21	-9000	13	13	12	4	1.2	5		14	36
561997	6385695	BEG-04	1.1	-9000	4	-9000	11	13	11	3	0.7	6		12	36
561783	6385752	BEG-05	0.25	-9000	5	-9000	5.5	10	10	3	0.6	5		12	33
561601	6385701	BEG-06	0.9	-9000	4	-9000	10	12	11	3	1	4		12	32
561277	6385100	BEG-07	0.4	-9000	2	-9000	22.5	9	6	3	0.6	4		8	16
561198	6385114	BEG-08	0.7	-9000	2	-9000	14.5	9	9	4	0.6	4		10	24
561091	6385114	BEG-09	0.45	-9000	2	-9000	12.5	9	8	6	1.2	4		16	27
561111	6385010	BEG-10	1.2	-9000	1.5	-9000	20.5	8	7	3	0.8	3		10	16
561314	6385016	BEG-11	0.75	-9000	1	-9000	20	9	6	3	0.4	3		8	17
561431	6384924	BEG-12	0.6	-9000	2	-9000	16	7	7	2	1.1	2		8	18
561497	6384920	BEG-13	0.2	-9000	11	-9000	8.5	9	10	3	1.1	5		16	39
561605	6384917	BEG-14	0.2	-9000	2	-9000	12	7	7	5	1	4		12	25
561711	6384896	BEG-15	0.45	-9000	1.5	-9000	24	9	6	5	0.5	4		8	17
561277	6384899	BEG-16	0.65	-9000	1.5	-9000	19.5	8	7	4	0.7	3		6	18
561235	6384898	BEG-17	0.6	-9000	1	-9000	18	9	8	5	0.6	2		8	20
561107	6384893	BEG-18	0.95	-9000	2	-9000	14	10	9	4	0.5	4		8	24
561362	6384820	BEG-19	0.65	-9000	2	-9000	25.5	10	7	3	0.3	4		8	18
561400	6384753	BEG-20	0.45	-9000	-0.5	-9000	24.5	9	7	3	0.5	4		8	16
561494	6384816	BEG-21	0.3	0.35	15	14	2.7	12	14	3	1.6	6		16	45
561407	6384321	BEG-22	0.45	-9000	1.5	-9000	20.5	8	6	8	1.2	3		14	25
561604	6384289	BEG-23	0.55	-9000	8.5	-9000	4.3	16	16	3	0.4	8		16	57
561617	6384109	BEG-24	0.45	-9000	9	-9000	6	11	11	3	0.8	6		12	37
561395	6384104	BEG-25	0.45	-9000	14	-9000	4.3	10	12	3	1	5		12	35
561211	6384134	BEG-26	0.4	0.35	4	4	12.5	9	9	4	1	4		10	27
561011	6384110	BEG-27	0.35	-9000	17	-9000	4.3	12	13	4	0.8	6		12	41
560819	6384127	BEG-28	0.55	-9000	11	-9000	4.6	14	14	4	0.7	6		14	41
561638	6383509	BEG-29	1	-9000	1	-9000	29	10	6	4	0.5	2		6	10
561529	6383398	BEG-30	1.2	-9000	1	-9000	27	10	5	3	0.4	3		8	11
561635	6383281	BEG-31	1	-9000	8.5	-9000	10.5	13	10	5	0.9	4		8	23
561717	6383393	BEG-32	0.95	1.5	5	7	5	9	12	15	1.1	9		18	20
564112	6385195	BEG-33	0.75	-9000	8	-9000	10.5	9	10	12	0.6	7		14	25

TABLE 1. Black Eagle Calcrete Data

Easting	Northing	S/no	Au (BLEG)	Au Dupl	Ag(BLEG)	Ag Dupl	Ca	Cu	Ni	As	Mo	Co	Ag	Pb	Zn
564224	6385119	BEG-34	0.6	-9000	2	-9000	13	7	7	11	0.6	5		12	19
564210	6385265	BEG-35	0.7	-9000	1	-9000	19.5	7	7	8	0.7	7		12	16
564092	6385375	BEG-36	0.6	-9000	1.5	-9000	19.5	8	7	8	0.5	5		10	20
564238	6385485	BEG-37	0.9	-9000	2	-9000	11	9	11	10	0.7	10		16	27
564185	6385581	BEG-38	0.9	-9000	2	-9000	5	9	8	15	0.7	4		14	26
564224	6385661	BEG-39	0.5	-9000	3.5	-9000	15	7	7	10	0.5	4		10	15
564143	6385770	BEG-40	0.35	-9000	4.5	-9000	29.5	8	6	5	0.7	6		10	16
	AMDEL	UNITS	ppb		ppb		%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	DETECTION LIMITS		0.05		0.5		0.1	2	4	1	1	2	0.5	4	2
		METHOD	BLEG1C		BLEG1C		IC2EC	IC2EC	IC2EC	IC2EC	IC2EC	IC2EC	IC2EC	IC2EC	IC2EC

TABLE 2. Mobile Metal Ion Assays

EASTING	NORTHING		Cu	Pb	Zn	As	Bi	Ag	Mo	Co	Ni	Ba	Mg	Ca	S	Pt	Au	U	Sr	Ce	Cr	Sn	Nb	Fe	Se
561400	6385000	16274	0.07	3.65	0.26	1060	5	21	38	2.43	3.16	62	1650	5.27%	109	0.8	1.8	51	62	23.4	2.95	-5	47	14	331
561400	6385050	16275	0.05	-0.01	-0.05	1310	-5	14	21	0.34	0.68	11	1460	6.36%	246	-0.1	0.7	12	73	-0.1	1.22	-5	-10	5	275
561400	6385100	16276	3.61	7.87	4.17	881	58	25	-10	5.34	4.44	75	3220	4.16%	129	-0.1	0.6	144	63	36.2	5.25	-5	-10	1350	320
561400	6385150	16277	4.21	8.99	5.72	548	68	50	-10	5.9	5.02	94	2700	2.35%	43	0.4	0.5	135	40	39	6.29	-5	-10	2380	270
561400	6385200	16278	4.07	7.65	5.46	464	62	25	-10	4.82	4.34	66	2640	2.07%	109	0.2	0.4	121	40	34.4	5.75	-5	-10	2210	217
561450	6385000	16279	0.13	2.33	-0.05	986	-5	24	31	2.12	2.87	31	1470	5.33%	287	-0.1	2	31	56	19.1	1.67	-5	49	6	294
561450	6385050	16280	0.71	5.29	1.04	798	26	25	-10	3.83	3.42	71	2300	4.90%	104	-0.1	0.8	95	54	30.2	2.94	-5	-10	139	298
561450	6385100	16281	4.75	9.95	5.69	475	76	37	-10	6.71	5.43	94	2990	1.77%	36	-0.1	0.5	163	37	44.6	6.73	-5	-10	2700	239
561450	6385150	16282	3.9	5	5.65	217	71	35	-10	5.41	4.76	78	2470	0.46	20	-0.1	0.5	119	24	38.9	5.9	12	-10	3730	163
561450	6385200	16283	3.67	8.48	4.99	350	69	29	-10	5.33	4.67	49	3060	1.28%	218	-0.1	0.4	105	35	38.3	6.02	-5	-10	2910	216
561500	6385000	16284	3.9	9	5.04	190	73	91	-10	5.19	5.99	26	2910	0.29	56	-0.1	0.6	86	34	37.4	7.22	8	-10	4780	210
561500	6385050	16285	2.19	6.17	1.9	636	42	15	-10	4.45	3.84	19	2280	3.52%	337	-0.1	0.7	127	51	28.8	4.02	-5	-10	1010	335
561500	6385100	16286	2.1	6.29	2.45	605	44	35	-10	4.66	4.57	31	2920	3.07%	214	-0.1	0.3	74	64	30.7	4.1	-5	-10	1120	371
561500	6385150	16287	0.3	4.31	0.49	784	14	16	70	3.85	5.29	75	3040	4.54%	108	-0.1	0.8	56	87	27.3	2.66	-5	15	17	417
561500	6385200	16288	0.09	3.49	0.2	739	7	22	64	3.03	3.34	24	3170	4.53%	302	-0.1	1.2	25	85	25	2.12	-5	19	-5	358
561550	6385000	16289	2.82	5.7	2.14	736	36	21	-10	3.97	3.35	54	1720	3.96%	84	0.2	0.5	90	46	28	3.19	-5	-10	769	257
561550	6385050	16290	3.88	8.29	4.01	178	69	52	-10	3.81	4.73	22	2580	0.26	166	-0.1	0.4	107	34	32.1	7.27	10	-10	5090	189
561550	6385100	16291	2.92	6.42	3.07	610	46	35	-10	4.36	3.38	59	1930	3.08%	57	-0.1	0.5	105	39	30.3	3.86	-5	-10	1400	200
561550	6385150	16292	3.41	7.52	3.61	493	54	39	-10	5.14	4.14	74	2100	2.36%	39	-0.1	0.6	115	34	36.3	4.61	-5	-10	1810	191
561550	6385200	16293	3.32	8.08	4.8	213	73	73	-10	3.99	4.86	31	3450	0.37	315	-0.1	0.3	109	40	35.2	6.58	11	-10	4350	139
561600	6385000	16294	2.98	7.48	4.44	189	65	36	-10	4.09	3.86	55	2150	0.39	35	-0.1	0.5	110	25	34.1	5.68	20	-10	3960	162
561600	6385050	16295	3.6	9.07	5.83	176	69	28	-10	5.77	4.1	65	2030	0.35	29	-0.1	0.4	138	22	42.7	5.94	21	-10	4000	136
561600	6385100	16296	4.18	8.16	4.23	214	65	47	-10	4.92	4.78	66	1940	0.68	22	-0.1	0.2	86	23	35.9	5.7	15	-10	3710	152
561600	6385150	16297	3.32	8.39	4.64	273	70	51	-10	4.08	5.14	36	3700	0.67	170	-0.1	0.6	77	47	35.9	6.57	6	-10	3900	187
561600	6385200	16298	2.62	7.1	3.3	448	53	24	-10	4.65	4.64	98	2790	2.14%	62	-0.1	0.7	100	51	34.5	4.52	-5	-10	1900	207
561650	6385000	16299	2.25	5.85	1.91	742	38	38	-10	4.44	3.46	52	1790	3.64%	84	-0.1	0.5	64	41	30	3.25	-5	-10	734	259
561650	6385050	16300	0.94	5.11	1.43	764	29	23	-10	4.46	3.65	40	2370	4.53%	230	-0.1	0.6	58	69	30.3	2.77	-5	-10	358	277
561650	6385100	16301	0.05	2.73	0.13	974	-5	17	27	2.14	2.72	47	1350	5.22%	84	-0.1	1.5	28	70	20.2	1.76	-5	41	15	296
561650	6385150	16302	1.9	1.4	1.71	730	33	32	-10	3.85	3.17	39	1900	3.99%	110	-0.1	0.8	77	47	26.3	3.04	-5	-10	883	234
561650	6385200	16303	3.28	8.73	4.45	187	73	66	-10	4.07	4.78	43	2660	0.36	41	0.3	0.3	117	29	35.9	6.23	14	-10	4630	120
561700	6385000	16304	1.02	5.34	1.02	778	26	34	-10	3.69	3.34	63	1760	4.56%	66	-0.1	0.5	84	46	28.5	2.72	-5	-10	263	223
561700	6385050	16305	0.14	3.92	0.3	984	12	25	38	2.67	3.07	56	1560	5.24%	87	-0.1	0.8	67	63	25.4	2.18	-5	20	35	256
561700	6385100	16306	2.69	7.08	5.11	272	57	19	-10	3.88	3.02	53	1470	1.02%	39	-0.1	0.3	108	28	34.3	4.65	31	-10	3260	115
561700	6385150	16307	0.08	3.61	0.24	912	9	25	33	2.36	2.8	55	1400	5.39%	76	-0.1	1.4	57	47	24.4	1.95	-5	29	22	245
561700	6385200	16308	3.1	7.06	3.11	579	50	35	-10	4.6	3.82	64	1950	2.84%	33	-0.1	0.4	117	37	35.7	3.99	5	-10	1660	154
561750	6385000	16309	3.04	6.26	3.8	143	54	16	-10	4.66	2.98	37	867	0.15	31	-0.1	0.3	117	14	36.7	4.85	85	12	3900	89
561750	6385050	16310	2.91	6.64	2.58	565	46	38	-10	4.26	3.65	61	1860	2.93%	30	-0.1	0.4	90	36	32.6	3.75	-5	-10	1430	177
561750	6385100	16311	3.6	7.68	3.74	322	60	94	-10	4.5	4.19	66	2330	1.33%	43	-0.1	0.6	87	32	36.5	4.99	8	-10	2690	156
561750	6385150	16312	0.18	4.56	0.38	876	17	26	29	2.92	3	40	1840	4.89%	123	-0.1	0.4	98	50	29.8	2.34	-5	13	48	246
561750	6385200	16313	-0.01	-0.01	-0.05	1040	-5	15	15	0.33	0.57	10	1360	5.53%	245	-0.1	0.4	-10	84	-0.1	0.71	-5	-10	9	268
561800	6385000	16314	3.28	8.87	4.17	166	67	29	-10	5.45	4.94	47	2200	0.31	24	-0.1	0.4	163	29	43.6	5.75	20	-10	4330	108
561800	6385050	16315	3.7	8.75	4.91	185	68	29	-10	5.79	4.85	59	1860	0.42	28	-0.1	0.5	118	25	45.3	5.52	27	-10	3800	144
561800	6385100	16316	0.27	3.72	0.21	920	9	16	30	3.02	3.02	28	1910	5.21%	161	-0.1	1	45	57	27.7	1.87	-5	22	9	238
561800	6385150	16317	1.06	4.7	0.6	832	23	22	-10	3.55	3.15	43	1710	4.71%	56	-0.1	0.8	54	52	28.5	2.1	-5	-10	172	249
561800	6385200	16318	0.02	-0.01	-0.05	1020	-5	8	24	0.26	0.63	9	1270	5.49%	137	0.3	0.6	13	86	-0.1	0.86	-5	-10	8	484
562800	6383600	16319	0.11	0.01	0.08	1050	-5	8	29	0.29	0.49	16	1250	5.46%	219	0.2	0.7	14	120	-0.1	0.76	-5	13	13	409

TABLE 2. Mobile Metal Ion Assays

EASTING	NORTHING		Cu	Pb	Zn	As	Bi	Ag	Mo	Co	Ni	Ba	Mg	Ca	S	Pt	Au	U	Sr	Ce	Cr	Sn	Nb	Fe	Se
562800	6383650	16320	0.03	-0.01	-0.05	1130	-5	9	21	0.3	0.48	35	1100	5.67%	140	0.1	0.4	12	104	-0.1	0.9	-5	16	9	416
562800	6383700	16321	0.07	0.71	0.12	1180	-5	12	33	1.33	1.79	50	1250	5.37%	153	0.6	2.2	58	88	3.6	1.42	-5	53	7	344
562800	6383750	16322	0.05	-0.01	-0.05	1070	-5	10	27	0.55	0.85	42	1110	5.58%	102	-0.1	1.2	-10	82	-0.1	0.93	-5	47	-5	291
562800	6383800	16323	3.5	7.53	4.36	516	54	23	-10	4.48	4.12	88	2120	2.33%	42	0.6	0.7	188	31	38.9	5.48	-5	-10	1900	203
562850	6383600	16324	0.07	-0.01	-0.05	1160	-5	13	22	0.3	0.56	20	904	5.87%	141	-0.1	0.8	13	105	-0.1	1.03	-5	14	8	335
562850	6383650	16325	0.09	0.01	0.13	1330	-5	10	28	0.45	0.61	31	1200	6.18%	182	0.2	0.5	12	108	-0.1	0.94	-5	26	5	548
562850	6383700	16326	0.12	-0.01	-0.05	1250	-5	10	39	0.5	0.62	29	1170	5.85%	188	-0.1	0.7	10	99	-0.1	0.79	14	30	5	447
562850	6383750	16327	-0.01	-0.01	-0.05	1290	-5	8	24	0.4	0.61	34	1100	5.94%	144	-0.1	0.3	-10	109	-0.1	0.82	-5	23	5	401
562850	6383800	16328	2.62	6.86	3.3	690	45	20	-10	4.26	3.71	89	2040	3.23%	51	0.5	0.2	191	39	36.8	4.3	-5	-10	1150	209
562900	6383600	16329	0.27	3.21	0.58	976	14	14	28	1.88	2.66	42	1030	5.23%	94	0.3	0.6	96	59	18.9	2.12	-5	11	90	238
562900	6383650	16330	0.07	-0.01	-0.05	1220	-5	11	23	0.35	0.58	21	754	5.80%	130	-0.1	0.5	-10	89	-0.1	0.87	-5	24	5	270
562900	6383700	16331	0.06	-0.01	0.08	1220	-5	11	24	0.37	0.6	20	867	5.65%	135	-0.1	0.7	-10	92	-0.1	0.75	7	23	-5	271
562900	6383750	16332	0.09	-0.01	-0.05	1380	-5	13	24	0.35	0.53	26	740	5.77%	109	-0.1	-0.1	-10	73	-0.1	1.17	-5	19	-5	279
562900	6383800	16333	2	7.07	2.55	723	44	19	-10	4.21	3.57	91	1930	3.50%	44	0.3	0.2	179	39	37.1	3.92	-5	-10	795	212
562950	6383600	16334	0.05	0.02	-0.05	1300	-5	10	21	0.38	0.55	29	1160	5.72%	136	0.1	0.5	-10	102	-0.1	0.86	-5	14	6	267
562950	6383650	16335	0.1	-0.01	0.06	1310	-5	9	32	0.35	0.59	13	1480	5.79%	282	0.1	0.8	-10	139	-0.1	0.8	-5	23	5	390
562950	6383700	16336	0.04	-0.01	-0.05	1360	-5	10	28	0.44	0.55	23	1300	5.63%	213	0.2	0.7	-10	118	-0.1	0.76	-5	23	-5	406
562950	6383750	16337	0.05	-0.01	-0.05	1460	-5	11	32	0.44	0.61	43	1030	6.05%	150	0.1	0.6	-10	89	-0.1	0.98	-5	30	-5	287
562950	6383800	16338	1.62	6.21	2.17	914	36	20	-10	3.75	3.31	78	1750	3.89%	50	0.8	0.3	174	37	34.7	3.47	-5	-10	577	246
563000	6383600	16339	0.1	0.28	0.15	1220	-5	11	31	1.1	1.74	18	1750	5.57%	217	0.5	2.6	58	127	0.1	1.03	-5	35	7	331
563000	6383650	16340	0.1	0.12	0.07	1300	-5	14	35	0.76	1.51	29	1220	5.76%	136	0.4	1.4	25	118	-0.1	0.91	19	34	-5	219
563000	6383700	16341	0.12	1.95	0.53	1200	-5	11	38	1.26	1.95	30	1680	5.47%	168	0.4	1.8	78	118	11.4	1.5	45	30	16	323
563000	6383750	16342	-0.01	2.59	0.39	1070	-5	14	33	2.51	2.35	59	1620	4.94%	72	0.4	0.8	109	55	24.8	2.06	9	-10	-5	200
563000	6383800	16343	0.06	-0.01	-0.05	1400	-5	10	24	0.42	0.6	21	803	5.84%	137	-0.1	0.6	-10	90	-0.1	0.75	-5	27	-5	375
	ALS	UNITS	ppm	ppm	ppm	ppb	ppb	ppb	ppb	ppm	ppm	ppm	ppm	%	ppm	ppb	ppb	ppb	ppm	ppm	ppm	ppb	ppb	ppm	ppb
	DETECTION LIMIT	PE010	PE010	PE010	PE010	PE010	PE010	PE010	PE010	PE010	PE010	PE010	PE010	PE010	PE010	PE010	PE010	PE010	PE010	PE010	PE010	PE010	PE010	PE010	PE010
	METHOD	0.01	0.01	0.05	5	5	5	10	0.01	0.01	1	1	1ppm	1	0.1	0.1	10	1	0.1	0.01	0.01	5	10	5	5



ANNUAL TECHNICAL REPORT

BLACK EAGLE PROJECT

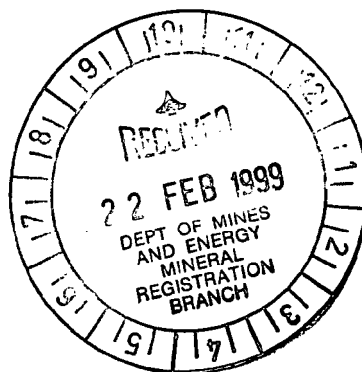
South Australia

Exploration Licence 2260

For the Period

10 January 1998 to 9 January 1999

AURORA GOLD (W.A.) PTY LTD



Distribution: Aurora Gold (W.A.) Pty Ltd
Minotaur Gold NL
Department of Primary Industries and Resources

PIRSA

R99/00083



S532 BLACK EAGLE PROJECT
South Australia

ANNUAL TECHNICAL REPORT

For the period
10 January 1998 to 9 January 1999

Exploration Licence 2260

Held by:
Minotaur Gold NL
1A Gladstone Street
Fullarton SA 5024

Operated by:
Aurora Gold (W.A) Pty Ltd
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January 1999

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FIGURES

Figure 1 Location of EL 2260 Black Eagle

PLANS

Drawing No	Title	Scale
S532-032-01	Aboriginal Clearance Areas	1:100000
S532-042-01	Outcrop Geology and Calcrete Cu-Au-As-Mo Geochemistry	1:100000
S532-062-01	Calcrete Gold Geochemistry	1:50000
S532-062-02	Calcrete Copper Geochemistry	1:50000
S532-062-03	Calcrete Lead Geochemistry	1:50000
S532-062-04	Calcrete Zinc Geochemistry	1:50000
S532-062-05	Calcrete Arsenic Geochemistry	1:50000
S532-081-01	Aeromagnetics	1:100000
S532-082-01	Ground Magnetics, Tinhut Prospect	1:10000
S532-082-02	Ground Magnetics, Allalone Prospect	1:10000

APPENDICES

Appendix 1	Exploration Work Programme
Appendix 2	Calcrete Geochemical Results
Appendix 3	Rock and Drill Sample Geochemical Results

ABSTRACT

Exploration Licence 2260 known as Black Eagle was granted to Minotaur Gold NL on the 10th January, 1997. Following evaluation of a number of Minotaur Gold projects, Aurora Gold (W.A.) Pty Ltd considered Exploration Licence 2260 to be prospective for gold and copper mineralisation. Palaeoproterozoic Hutchison Group metasediments within the Licence area are believed to be conducive to replacement or skarn styles of mineralisation. Agreement on the terms of a joint venture was reached with Minotaur Gold NL in November, 1998 whereupon Aurora Gold became the manager and operator of the project. Exploration by Minotaur Gold between January and October 1998 included infill calcrete sampling and Aboriginal access negotiations. Exploration by Aurora Gold between October and December 1998 included participation in Aboriginal access negotiations, liaison with property owners, calcrete geochemical sampling and ground magnetics.

KEYWORDS

Aurora Gold, Minotaur Gold, joint venture, gold, copper

COMMODITIES

Gold, Copper

LOCALITY/ NEAREST TOWN

Kimba – 80 kilometers southeast of EL 2260

LATITUDE

32 ° 40' 00"

LONGITUDE

135 ° 40' 00"

1:250 000 Map No: SI 53-3

1:250 000 Map Name: Yardea

1.0 INTRODUCTION

Following a review of a number of projects operated by Minotaur Gold NL (ACN 061 559 840) in the Gawler Craton, Aurora Gold (W.A.) Pty Ltd (ACN 009 215 089) considered Exploration Licence 2260 to be prospective for gold and copper mineralisation on the basis of:

- Palaeoproterozoic Hutchison Group metasediments present in the area of the Licence are conducive to replacement or skarn styles of mineralisation,
- Very little exploration for gold + copper mineralisation has been undertaken by previous explorers.
- Recent reverse circulation drill testing in a similar stratigraphic package by Acacia Resources/Western Metals sixty kilometers east of EL2260 intersected high grade gold values including 9m at 24.6 g/t Au and 7m at 18.5 g/t Au at the Weednanna Prospect.
- A low order copper + arsenic + molybdenum anomaly was obtained in widely spaced (1km x 1km) calcrete samples by Minotaur Gold over Hutchison Group metasediments in the northeast portion of the Licence. A large area of favourable stratigraphy had not been sampled.
- Major structures with magnetite alteration zones juxtaposed against Hiltaba Suite granite.

1.1 Tenure

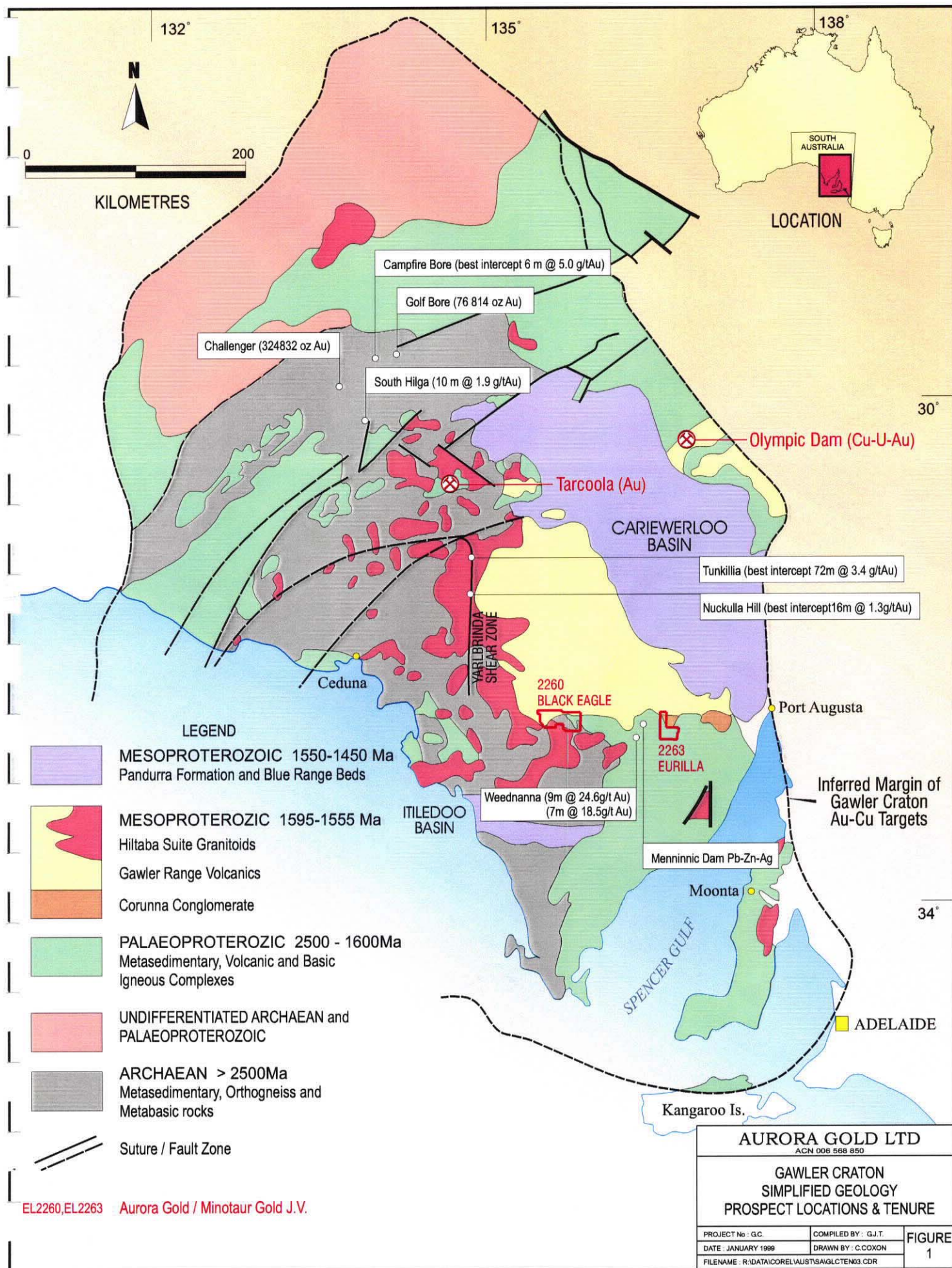
Exploration Licence 2260 was granted to Minotaur Gold NL on January 10th 1997 for one year, with an initial expenditure commitment of \$120 000. The Licence was extended for a further year to 1998 and renewal has been sought to extend the term to 9 January 2000. Agreement on the terms of a joint venture was reached between Aurora Gold (W.A.) Pty Ltd and Minotaur Gold NL in November 1998 whereupon Aurora Gold became the manager and operator of the joint venture.

1.2 Location and Access

The project area is located some 80 kilometers north of Kimba and occupies some 942km² within the Paney and Buckleboo Pastoral Leases. Access to the Licence area is via unsealed council roads and station tracks. The location of EL 2260 is shown in Figure 1.

2.0 EXPLORATION SUMMARY

- A preliminary field visit to the project area was carried out in conjunction with a review of past exploration work.
- Property owners were kept informed of exploration activities.
- An Aboriginal heritage clearance programme was conducted over four selected areas of the tenement on October 29th, 1998.
- Calcrete sampling (159) was carried out on 500m x 500m centres as follow-up to calcrete Cu + Mo + As anomalies or elevated Au values disclosed by Minotaur Gold and on 1km x 1km centres in areas not previously sampled by Minotaur Gold. Eighteen samples of drill spoil and three rock samples were also taken.
- Ground magnetics on 200m spaced lines were completed at the Tinhut Prospect and the Allalone Prospect. Twenty-three lines totaling 53 kms were completed.



3.0 DESCRIPTION OF WORK UNDERTAKEN

3.1 Geology

Exploration Licence 2260 is located on the Yardea 1:250 000 geological sheet and predominantly covers Mesoproterozoic Gawler Range Volcanics and Palaeoproterozoic Hutchison Group metasediments. Outcrop geology is shown as Drawing S532-042-01.

3.1.1 Surface Environment

The Gawler Range Volcanics and Hiltaba Suite granite form prominent hills in the north, west and central south of the Licence. In contrast, Hutchison Group metasediments have largely been recessively eroded and consequently, the bulk of the eastern half of the Licence area consists of peneplains, sheet wash areas and ephemeral lakes. Subcrop and outcrop of Hutchison Group metasediments tend to be concentrated in the northeastern portion of the Licence area. Warrow Quartzite forms prominent ridges in the northwestern part of the Licence. Cainozoic sediments and regolith include:

- a) Quaternary red brown residual to largely residual calcareous soil with abundant iron pisolites and well developed nodular calcrete paleosols located in the northeastern half of the Licence and
- b) Quaternary sheetwash sand, silt and minor gravel 1m to 10m in thickness and generally confined to the central south of the Licence. Calcrete is less well developed in this unit and generally consists of interstitial powdery aggregates or cutins around pebbles.

3.1.2 Lithologies

Jurassic: Jurassic Algebuckina Formation silt, sand and gravel up to 50m in thickness is known from past drill testing in the central and central south of the Licence area, particularly in that area northeast of the outcropping Hiltaba Suite granite. In this area, the Algebuckina Formation consists of alluvial fan and channel fill sediments with deposition largely controlled by a series of northwest and north northeast trending faults.

Mesoproterozoic (1600 to 1550 Ma): Gawler Range Volcanics (GRV) comprising predominantly rhyolite to dacite ignimbrites or lava flows outcrop in the northern and western portion of the Licence. These volcanics form the southern edge of a vast volcanic province that extends for over 25 000 km² in the central Gawler Craton. The Lower Gawler Range Volcanics comprise a series of thick bedded, variably magnetic curvilinear units that dip gently to moderately to the north. A fault bounded Hiltaba Suite granite stock outcrops in the central south of the Licence. This is a red, haematitic, medium grained, equigranular granite with little or no evidence of deformation in the available outcrop. Dykes of both altered and unaltered granite and Gawler Range Volcanics are known from past drill testing along the northeastern margin of this granite stock and appear to have played an important role in mineralisation and alteration events.

Corunna Conglomerate comprising coarse fluvial conglomerates, carbonaceous siltstone and green to red sandstone forms a north trending series of prominent hills such as Mt Allalone in the central south of the Licence. The Corunna Conglomerate was deposited in a continental, restricted basin synchronous with deposition of the Lower Gawler Range Volcanics.

Palaeoproterozoic (1900-1850 Ma): In the eastern part of the Licence, the dominant lithologies comprise clastic and chemical metasediments including schists, gneiss, calc-silicates, carbonates and iron formations belonging to the Hutchison Group. The clastic sediments were deposited on a shallow continental shelf. Concordant amphibolites are also an important component of the Hutchison Group.

Well exposed Hutchison Group elsewhere on the Eyre Peninsula consists of the basal Warrow Quartzite, Lower Middleback Jaspilite, Cook Gap Schist and the Upper Middleback Jaspilite overlain by the Yadnarie Schist or the laterally equivalent Bosanquet Formation.

The Warrow Quartzite forms prominent northwest trending ridges and comprises massive to flaggy sandstone with quartz pebble beds in the basal section. The base of the Middleback Subgroup is represented by the Katunga Dolomite which consists of a dolomitic marble with thin bands of serpentine, diopside and tremolite. The Katunga Dolomite grades laterally and vertically into the Lower Middleback Jaspilite which consists of banded chert + iron oxides + iron silicates + carbonate and locally abundant graphite and iron sulphides. The Cook Gap Schist comprises quartz, mica, garnet $\pm$ feldspar $\pm$ sillimanite schist with thin calc-silicate units, pegmatitic segregations and concordant amphibolites. The overlying Upper Middleback Jaspilite is similar to the Lower Middleback Jaspilite. Warrow Quartzite and Cook Gap Schist outcrop in the Licence area. Other units from the Hutchison Group may also be present in the Licence.

Archaean Sleaford Complex: Poorly exposed Late Archaean foliated and migmatitic felsic gneisses and gneissic granite represents the basement to the Hutchison Group. Garnet and magnetite bearing gneisses from SADME drillhole WD1 near Warramboo were dated at 2520 ± 163 Ma using the Rb-Sr technique (Parker et al, 1993).

3.1.3 Structure

Regional north northeast and northwest trending fault zones bound the western and eastern margins of the granite stock in the central south of the Licence. These faults effectively separate the Lower Gawler Range Volcanics to the west from Palaeoproterozoic and Archaean stratigraphy to the east. Refraction of these structures is evident as they transgress stratigraphic units.

The east northeasterly trending contact between the Gawler Range Volcanics to the north and Palaeoproterozoic and Archaean sequences to the south in the northwest portion of the Licence appears to be, at least in part, fault controlled.

Northerly to north northwest trending units of Warrow Quartzite maintain a consistent strike for at least ten kilometers with only minor fault offsets. These units may represent thrust repetitions of the same unit.

A spaced northerly to northeast striking and moderately to steeply southeast dipping fracture cleavage is evident in the Gawler Range Volcanics. A penetrative steeply dipping, north northwest striking foliation is evident in Palaeoproterozoic and Archaean units.

3.1.4 Mineralisation Models

Potential may exist for the following styles of mineralisation both regionally and within the Licence area:

- a) Epigenetic base metal mineralisation. The Menninnie Dam Ag + Pb + Zn mineralisation 60km west of EL 2260 is an example of epigenetic base metal mineralisation hosted by iron formation and carbonate units. The mineralisation at Menninnie Dam is contemporaneous with the intrusion of Gawler Range Volcanic dykes into Hutchison Group metasediments and is therefore Mesoproterozoic in timing. These dykes have been dated at 1591 ± 15 Ma which is indistinguishable from the mean weighted age of 1589 ± 16 Ma for all dated GRV and Hiltaba Suite granitoids (Roach and Fanning, 1994). Similar styles of basemetal mineralisation have been disclosed by past explorers at the Paney and Tinhut Prospects.
- b) Fault zone or shear zone hosted gold mineralisation associated with late stage Kimban or Kararan structures and associated intrusives.
- c) Ironstone hosted gold ($\pm$ copper) mineralisation. The gold mineralisation at the Weednanna Prospect several kilometers west of EL 2263 is rumored to be hosted by iron formation with minor base metal sulphides and arsenopyrite. The better reverse circulation intercepts include 9m at 24.6 g/t Au, 7m at 18.5 g/t Au and 9m at 9.4 g/t Au. The mineralisation occurs over a strike length of 400m to 500m. The timing of this mineralisation is unknown.

3.2 Previous Exploration

Extensive exploration has been undertaken within the Licence area for stratiform basemetal mineralisation principally by Shell Minerals (EL 843) and later by Aberfoyle Resources Ltd (EL 1584) during the mid-1980s and early 1990s. Exploration included aeromagnetic, groundmagnetic and EM surveys, RAB and aircore drill testing, RC drill testing at the Tinhut Prospect and diamond drill testing (2 holes for 547m) at the Paney Prospect. Minor, narrow intersections of lead-zinc mineralisation were obtained in the RC and diamond holes at the Paney and Tinhut Prospects. Gold analyses of selected drillcore were undertaken with several low order intercepts of between 0.1 g/t and 0.2 g/t being recorded. Other gold analyses were limited to selected end of hole RAB or aircore samples.

Shell intersected strongly anomalous gold values in RAB holes near Oxys Dam 10 kms east of the Licence including 2m at 0.69 g/t Au in RAM 12, 2m at 0.54 g/t Au in RAM 59 and 2m at 0.52 g/t Au in RAM 52.

Further details of work carried out by past exploration companies is provided in Belperio (1998).

3.3 Current Exploration

3.3.1 Aboriginal Clearance Survey

Exploration access clearance of 48.8 km² comprising four areas was undertaken on the 29th October, 1998. The location of areas requested for clearance together with heritage exclusion zones are shown as drawing S532-032-01. A copy of the work programme required as part of the clearance process is provided in Appendix 1.

3.3.2 Geochemical Surveys

Calcrete Sampling: During the first year of exploration, Minotaur Gold carried out auger calcrete sampling (798) on 1km x 1km centres throughout the Licence and on 200m or 50m centres at the Paney Prospect. Although additional regional calcrete sampling (159) was undertaken in the second year of exploration, large tracts of the eastern half of the Licence remained unsampled. Calcrete samples were submitted to Amdel, Adelaide for Au (0.05 ppb) and Ag (0.5 ppb) analyses by method ICPMS and for Cu (2ppm), Pb (4ppm), Zn (2ppm), Ca (0.1%), As (1ppm), Co (2 ppm), Mo (1ppm) and Ni (4ppm) analyses by method IC2EC. Cu + Au + As + Mo calcrete geochemistry is shown in Drawing S532-042-01. Aurora Gold collected an additional 159 samples generally on 1km x 1km or on 500m x 500m centres as follow-up to the Cu + As + Mo anomaly and as infill to the calcrete sampling undertaken by Minotaur Gold in the northeast of the Licence. Samples were taken by hand digging a pit from 0.1m to 0.6m in depth and collecting 3-4 kgs of calcrete at each site. Sample sites were located in AMG coordinates with a standard Garmin GPS using Australian Geoid '84 Datum. Samples were submitted to Analabs for Au (1ppb) analyses by method GG334, Ag (0.2 ppm), Cu (1ppm), Pb (1ppm), Zn (1ppm) and Ca (0.1 %) analyses by method GG115, and As (1ppm) analyses by method HA 140. Calcrete geochemical results are provided in Appendix 2 and in Drawings S532-062-01 to S532-062-05.

Rock and Drill Hole Sampling: Eighteen samples of drill spoil from old Aberfoyle aircore holes were taken where preserved at the Paney and Tinhut Prospects. Three rock samples of quartz or silica-carbonate alteration or ironstone were taken in the northwest part of the Licence. One of the rock samples (G84148) was taken from a shallow prospecting pit. Samples were submitted to Analabs for the same suite of elements as the calcrete samples with the exception of Ca. Results are provided in Appendix 3.

3.3.3 Geophysical Surveys

Aeromagnetics: Grey scale and pseudocolour TMI images provided in the South Australian Exploration Initiative Southern Gawler Craton dataset were used for general geological interpretation and to pick non-stratigraphic bullseye magnetic highs for ground magnetic follow-up. The non-stratigraphic bullseye magnetic highs were considered possible targets for ironstone hosted or magnetite hosted gold + copper mineralisation. A pseudocolour TMI image of the Licence area is shown as Drawing S532-081-01.

Groundmagnetics: Twenty-three 200m (or 100m) spaced traverses totaling 53 kms were completed in two areas. Readings were taken at 10m stations along each traverse using a Scintrex Envimag magnetometer. Both field and base station data is provided in the disc in the back of this report. Images of ground magnetic data are provided in Drawings S532-082-01 and S532-082-02.

4.0 DISCUSSION OF RESULTS

4.1 Geochemical Surveys

Calcrete Geochemistry: Anomalous gold (2 ppb to 6 ppb), copper (40 ppm to 147 ppm) and zinc (30 ppm to 190 ppm) calcrete geochemistry is associated with the sheared contact between the Warrow Quartzite (west) and Cook Gap Schist (east) in the northeast portion of the Licence. A relatively discrete lead and zinc calcrete anomaly is located over Hutchison Group metasediments immediately south of the faulted contact between

this sequence and Gawler Range Volcanics in the northwest corner of the Licence. Anomalous arsenic abundances (15 ppm to 94 ppm) are confined to single, widely separated samples. Thresholds of anomalism were determined by means of visual estimation of the data set.

Rock and Drill Sample Geochemistry: Sampling of drill chips confirmed the strongly anomalous Ag + Pb + Zn geochemistry obtained by Aberfoyle in RAB and aircore holes. The best result was a sample of grey, silica altered sediment with 45.4 g/t Ag, 0.1 % Cu, 0.29 % Pb and 1.5 % Zn from the Tinhut Prospect. All samples contained background gold values with the exception of one sample with 30 ppb Au. Rock samples contained background precious and basemetal values.

4.2 Geophysical Surveys

Ground magnetics at the Tinhut Prospect indicated that the bullseye magnetic high evident in aeromagnetics is actually a north northwest trending, twin peaked anomaly of around 1400nT to 1600nT above background. The bulk of the anomaly is discrete being confined to around 500m of strike length. Aeromagnetics indicate that the lower order northerly to northwesterly extension of the anomaly gradually dissipates some 2 kms northwest of the magnetic peak. The form and intensity of the magnetic anomaly and geological data obtained from the Aberfoyle drillholes suggests the following geological attributes:

- a) An east northeast trending GRV dyke or fault zone is responsible for the sharp southern margin of the magnetic high and the small subsidiary magnetic highs located to the east of the main anomaly.
- b) The western contact of the main magnetic peak appears to be bounded by a north northwest trending fault.
- c) The main magnetic anomaly therefore appears to be fault controlled. The source of the fluids responsible for the mineralisation and silica + magnetite + chlorite + carbonate alteration observed in this area may actually be derived from one of the bounding faults or GRV dykes. The lower order northerly to northwest extension of the magnetic anomaly appears to represent the more distal portions of the system with the orientation of the magnetic response being largely controlled by the trend of stratigraphic units and/or bedding orientation.

There have been only a few end of hole gold analyses from this Prospect with the best result being 2m at 0.13 g/t Au from 38 to 40m EOH in Shell RAB hole RAM 334. Most samples were only analysed for Cu, Pb, Zn, Ag, Mn and Fe. Furthermore, the 5 RC holes designed to test this anomaly by Aberfoyle were drilled in the distal portion of the magnetic anomaly and did not explain the main twin peaked magnetic response. The Aberfoyle aircore holes drilled across the southern magnetic peak were ineffective in adequately penetrating bedrock.

Groundmagnetics at the Allalone Prospect indicates that the magnetic peak is some 1800nT above background and is located within the north northeast trending fault on the western margin of the granite stock. This anomaly is located just to the south of Mt Allalone which is regarded as a feature of Aboriginal cultural significance. The source of the magnetic anomaly may be located within Hutchison Group metasediments beneath a thin skin of Gawler Range Volcanics.

5.0 FUTURE PROGRAMME

- 1) Undertake follow-up calcrete sampling in the vicinity of the low order gold + copper anomaly in the northwest of the tenement
- 2) Aircore drill test the peak of the magnetic anomaly at the Tinhut Prospect and the Allalone Prospects.

6.0 REFERENCES

- a) Belperio, A.P. 1998. *Exploration Licence 2260 Black Eagle. 1st Annual Technical Report for the Period 10/1/97 to 9/1/98*. Minotaur Gold NL. Unpublished Report.
- b) Parker, A. J., Daly, S. J., Flint, R. B., Preiss, W. V. and Teale, G S. 1993. *The Geology of South Australia, Volume 1, The Precambrian*. South Australian Geological Survey, Bulletin 54.
- c) Roache, M.W. and Fanning, C.M., 1994. Timing of Mineralisation at the Menninnie Dam Pb-Zn-Ag deposit, Eyre Peninsula, South Australia. *Geological Society of Australia. Abstracts*, 37:376-377.

APPENDIX 1: EXPLORATION WORK PROGRAMME

WORK PROGRAMMES

EL 2263 EURILLA and EL 2260 BLACK EAGLE

A) Nature, Scope and Objective

The objective of undertaking exploration within EL 2263 and EL 2260 is to locate economic quantities of precious metals. Exploration will consist of a mixture of reconnaissance and prospect exploration methods including, but not necessarily restricted to gridding, ground geophysical and geochemical surveys, selective vegetation clearance for drill rig access and drill testing. Areas requiring access clearance for **Prospect Exploration** purposes are shown as grey areas on the attached 1:100000 map of Exploration Licence 2260 'Black Eagle' and the 1:50000 map of Exploration Licence 2263 'Eurilla'.

B) Timing and Duration

Prospect Exploration is planned to commence in late January to early February 1999. The duration of the initial phase of Prospect Exploration is expected to last for four to five weeks.

C) Techniques

- Hand digging of shallow pits to take soil or calcrete samples.
- Ground magnetic traversing on lines 100m to 400m apart.
- Selective clearance of vegetation using a scrub rake. No clearing will be undertaken with reconnaissance exploration. The only clearing required will be for drill rig access and will only be undertaken in accordance with PIRSA environmental guidelines and with approval from PIRSA.
- RAB/Aircore drill testing of geochemical and geophysical targets

D) Camp

A camp may be set up within one of the proposed access areas or personnel may stay at 'Uno' Homestead or 'Paney' Homestead.

Access to the exploration areas will be by means of established station tracks. Within the exploration areas, vehicular movements will be restricted to open areas and will involve weaving around vegetation thickets. One or two landcruisers will be used for initial site visit purposes. Two landcruisers, a light truck for carrying drilling consumables and a drill rig will be employed during a drill programme. There is no plan to upgrade roads leading to the designated exploration areas.

E) Resources

Some water may be required from dams or wells from the Uno or Paney Pastoral Leases for drilling.

F) Environmental Impacts

General environmental guidelines set down by PIRSA will be adhered to. Within the designated exploration areas, open spaces will be utilized as much as possible for vehicular access. No vegetation clearing will be undertaken unless it is absolutely necessary. All drill holes will be plugged and compacted with soil. No rubbish will be left at drill sites including PVC in drill collars and drill sites will be left in a tidy manner. Drill samples will be left adjacent to the drill hole. The drilling will initially be of a reconnaissance nature. If geochemical encouragement is obtained, additional closer spaced drilling may be required. Thus, the overall environmental impacts of exploration activities in the areas outlined is expected to be low.

G) Contractors and Personnel

Drill contractors may include: 1) Coughlan Drilling Pty Ltd

2) Johannsen Drilling Pty Ltd

Reconnaissance Exploration: 2 Personnel (Geologist and field assistant)

Prospect Exploration: 5 personnel (Geologist, field assistant, driller and two offsidiers)

H) Area of Work Programme

The Prospect Exploration Areas total 62.7 square kilometers in Exploration Licence 2263 'Eurilla' and 48.8 square kilometers in Exploration Licence 2260 'Black Eagle'.

APPENDIX 2: CALCRETE GEOCHEMICAL RESULTS

EASTING	NORTHING	SAMPLE	Au (ppb)	Au(R)	Au(S)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ca (%)	As (ppm)	DESCRIPTION
577000	6383100	G84074	<	-	-	<	13	5	7	16.1	12	Massive to semi Massive, 0.2m, gentle hill
578000	6383000	G84075	<	-	-	<	19	3	10	27.4	<	nodular, 0.3
577900	6381600	G84076	1	-	-	<	6	1	3	26.1	2	Massive to nodular 0.2m, slope of hill
577000	6382000	G84077	1	-	-	<	14	1	5	21.5	1	Pisolitic to nodular, 0.2m
577000	6381000	G84078	<	-	-	<	8	3	10	17.7	2	Pisolitic calc & calcareous sand, 0.6m
578000	6381000	G84079	<	-	-	<	6	2	5	27.8	<	nodular, 0.2m
578550	6381000	G84080	<	-	-	<	10	2	13	20.4	2	nodular, 0.5m
579000	6381000	G84081	<	-	-	<	8	1	14	30.9	3	nodular, 0.2m
579500	6381000	G84082	<	-	-	<	8	3	8	29.8	4	nodular, 0.2m
579920	6384100	G84083	<	-	-	<	7	2	7	25.3	3	nodular, 0.2m
579420	6380500	G84084	<	-	-	<	7	5	6	23.2	4	nodular, 0.2m
579050	6380500	G84085	<	-	-	<	11	5	6	28.3	2	nodular to boulder 0.3m
578430	6380000	G84086	<	-	-	<	10	5	4	26.1	<	nodular, 0.3m
578400	6380000	G84087	1	1	-	<	12	7	5	24.4	2	nodular, 0.3m
578000	6380000	G84088	<	-	-	<	12	6	4	26.6	<	nodular, 0.4m
577000	6380000	G84089	<	-	-	<	7	3	9	21.1	<	nodular, 0.6m
577300	6380200	G84090	<	-	-	<	6	2	4	28.1	<	nodular, 0.4m
577320	6378300	G84091	<	<	<	<	6	2	4	27.9	<	nodular, 0.4m
577080	6377030	G84092	1	-	-	<	6	2	4	28.7	<	Boulder to nodular, 0.3m
578000	6377000	G84093	<	-	-	<	8	3	5	22.1	<	nodular, 0.3m
578000	6377980	G84094	<	-	-	<	6	2	5	28.5	<	nodular, 0.3m
577950	6379030	G84095	<	-	-	<	5	1	3	24.2	1	nodular, 0.3m
578400	6379130	G84096	<	-	-	<	14	2	7	27.2	<	nodular, 0.3m
578780	6379480	G84097	<	-	-	<	7	2	5	28.4	<	nodular to boulder, 0.2m
579000	6380000	G84098	<	-	-	<	9	2	7	17.4	<	nodular, 0.6m
579250	6380000	G84099	<	-	-	<	10	1	5	27.9	3	nodular, 0.3m
579500	6380000	G84100	<	-	-	<	7	2	6	25	<	nodular, 0.2m
580000	6380000	G84101	<	-	-	<	6	2	5	27.9	<	Boulder to nodular, 0.2m
580000	6379500	G84102	<	-	-	<	6	2	6	28.7	1	nodular, 0.3m
580000	6379000	G84103	<	-	-	<	6	2	6	27.3	1	nodular, 0.2m
581000	6379080	G84104	<	-	-	<	6	3	3	25.7	7	nodular, 0.2m
581000	6380000	G84105	1	<	-	<	6	2	3	25.8	<	nodular, 0.2m
582000	6381800	G84106	<	-	-	<	7	3	7	24.9	1	nodular, 0.3m
583030	6382150	G84107	<	-	-	<	16	<	8	30.6	<	nodular, 0.2m
582780	6383050	G84108	1	-	-	<	16	2	8	21.6	<	nodular, 0.3m
582200	6383000	G84109	<	-	-	<	13	2	6	27.5	1	nodular, 0.5m
581400	6383100	G84110	<	-	-	<	11	2	7	27.4	2	nodular, 0.3m
579870	6383140	G84111	<	<	-	<	8	2	5	28.2	<	nodular, 0.3m
580240	6384020	G84112	<	-	-	<	8	1	3	28.5	1	nodular, 0.1m
580060	6384850	G84113	<	-	-	<	8	2	5	29.9	4	nodular, 0.2m
580840	6385000	G84114	<	-	-	<	11	2	4	27.4	<	nodular, 0.2m

EASTING	NORTHING	SAMPLE	Au (ppb)	Au(R)	Au(S)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ca (%)	As (ppm)	DESCRIPTION
580980	6384060	G84115	2	2	-	<	11	2	7	24.8	1	nodular, 0.4m
582000	6383830	G84116	<	-	<	<	18	2	5	25.8	3	nodular, 0.2m
584000	6384000	G84117	<	-	-	<	7	8	4	32.5	<	nodular, 0.2m
582800	6384950	G84118	<	-	-	<	8	8	4	30.5	<	nodular, 0.2m
582760	6385700	G84119	<	-	-	<	7	9	6	20.1	1	nodular, 0.2m
582760	6386300	G84120	<	-	-	<	7	11	3	12.9	6	n/a
581000	6385920	G84121	<	-	-	<	6	9	5	30.1	<	nodular, 0.2m
580180	6386040	G84122	<	-	-	<	7	3	5	28	1	nodular, 0.3m
579020	6386200	G84123	<	-	-	<	10	3	7	24.6	1	nodular, 0.3m
577000	6386000	G84124	<	-	-	<	12	16	5	10.2	33	cutins on iron pisolites + calcareous matrix
577000	6385450	G84125	<	-	-	<	24	6	42	4.7	6	Residual calcareous soil
576500	6385350	G84126	<	-	-	<	24	<	9	25.4	<	Calc nodular, cut, 0.3m
576000	6385000	G84127	<	-	-	<	19	1	10	27	2	Calc nodulars, 0.3m
575575	6385000	G84128	<	-	-	<	8	3	7	25.8	1	nodular, 0.3m
574900	6385020	G84129	2	2	-	<	13	2	5	25.4	4	nodular, 0.3m
574900	6384000	G84130	<	-	-	<	5	8	4	32.7	<	nodular, 0.2m
575500	6384000	G84131	<	-	-	<	9	9	5	27.2	1	nodular, 0.3m
575925	6384000	G84132	<	-	-	<	7	<	5	27.5	1	nodular, 0.3m
577000	6384000	G84133	<	-	-	<	9	1	7	28.5	<	nodular, 0.3m
578000	6384040	G84134	<	-	-	<	6	<	4	29	<	nodular, 0.2m
574920	6385500	G84135	<	-	-	<	9	3	9	25.2	2	nodular, 0.3m
575500	6385500	G84136	1	-	-	<	41	1	10	26.2	<	nodular, 0.2m
575420	6385980	G84137	6	6	-	<	22	1	9	26.3	<	nodular, 0.2m
575000	6386090	G84138	<	-	-	<	18	2	8	26.9	<	nodular, 0.3m
575000	6386500	G84139	2	2	-	<	35	2	9	26.6	<	nodular, 0.2m
575500	6386370	G84140	<	-	-	<	29	3	30	9.7	3	Calcareous residual soil, 0.5m
575350	6386950	G84141	<	-	<	<	147	3	24	9.9	2	Crustiform, 0.2m
575490	6387500	G84144	6	6	-	<	41	2	12	25.4	5	nodular, 0.3m
576900	6386980	G84145	<	-	-	<	9	3	5	27.5	2	nodular, 0.3m
577400	6386950	G84146	<	-	-	<	14	14	9	8	27	calcareous residual, 0.4m
576250	6386625	G84147	<	-	-	<	22	5	8	25.1	<	nodular, 0.3m
574000	6384000	G84541	<	-	-	<	10	7	5	25.9	<	nodular, 0.1m
574000	6385000	G84542	<	-	-	<	7	2	6	26.5	1	nodular, 0.1m
574500	6385500	G84543	<	-	-	<	8	1	5	25.2	1	Med to pisolites, 0.3m
574500	6386000	G84544	<	-	-	<	14	4	12	17.1	<	pisolites, 0.3m
574500	6386500	G84545	<	-	-	<	12	3	13	14.7	1	pisolites, 0.4m
574500	6388000	G84546	<	<	-	<	18	5	32	9.7	1	pisolites, 0.4m
574500	6389000	G84547	3	3	-	<	28	1	9	27.8	1	nodular, 0.1m
574500	6390500	G84548	<	-	-	<	13	8	19	13.3	5	pisolites, 0.3m
574500	6391000	G84549	<	-	-	<	7	11	25	2.45	2	calcareous residual soil, 0.3m
574500	6391500	G84550	<	-	-	<	11	10	27	2.95	<	calcareous residual soil, 0.4m

EASTING	NORTHING	SAMPLE	Au (ppb)	Au(R)	Au(S)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ca (%)	As (ppm)	DESCRIPTION
574500	6392000	G84551	<	<	-	<	8	16	41	9.9	3	nodular, 0.2m
574000	6392000	G84552	<	-	-	<	7	21	58	5	5	nodular, 0.2m
574000	6391500	G84553	<	-	-	<	7	11	22	5.35	<	nodular, 0.4m
574000	6390500	G84554	<	-	-	<	8	5	9	28.1	4	nodular, 0.2m
574000	6390000	G84555	<	-	-	<	20	2	13	23.4	3	Laminated, 0.4m
574000	6389500	G84556	<	-	-	<	19	6	24	13.3	2	Laminated, 0.3m
574000	6389000	G84557	1	-	-	<	31	5	27	13.4	31	Laminated, 0.4m
574000	6388500	G84558	<	-	-	<	9	4	10	20	1	nodular, 0.2m
574000	6388000	G84559	<	-	-	<	9	4	9	6.55	1	nodular, 0.4m
573500	6388500	G84560	<	-	-	<	5	3	2	0.226	1	nodular, 0.2m
573500	6389000	G84561	<	-	<	<	14	4	10	15.5	3	Laminated, 0.4m
573500	6389500	G84562	1	-	-	<	27	3	9	24.9	3	nodular, 0.4m
573500	6390000	G84563	<	-	-	<	24	4	15	20.1	5	nodular, 0.4m
573500	6390500	G84564	<	-	-	<	9	9	14	12	6	Laminated, 0.4m
573500	6391000	G84565	<	-	-	<	9	7	18	10.1	<	Laminated, 0.5m
573000	6390500	G84566	<	-	-	<	7	6	11	20.4	2	Pisolitic, 0.4m
573000	6389500	G84567	<	-	-	<	13	5	7	15.7	2	nodular, 0.1m
573000	6388000	G84568	<	-	-	<	17	3	9	13.4	2	nodular, 0.4m
575000	6378500	G84569	2	2	-	<	36	3	15	17.9	<	nodular, 0.3m
575000	6388000	G84570	<	-	-	<	20	5	29	9	<	calcareous residual soil, 0.5m
575000	6388500	G84571	1	-	-	<	22	4	12	20.7	4	pisolites, 0.5m
575000	6389000	G84572	<	-	-	<	14	3	7	17.5	1	nodular, 0.5m
575000	6389500	G84573	<	-	-	<	22	6	17	17.2	3	nodular, 0.5m
575000	6390000	G84574	<	-	-	<	9	11	9	17.7	16	nodular 0.3m
575000	6391500	G84575	<	-	-	<	10	12	26	3.5	<	calcareous residual soil, 0.6m
575000	6392000	G84576	<	-	-	<	6	19	24	2.85	1	nodular, 0.4m
575500	6392000	G84577	<	-	-	<	7	13	18	6.1	2	nodular, 0.3m
576000	6392000	G84578	<	-	-	<	6	24	42	2.9	2	nodular, 0.2m
576500	6392000	G84579	<	-	-	<	7	19	39	3.3	3	nodular, 0.3m
576000	6391500	G84580	<	-	-	<	7	22	38	1.38	3	nodular, 0.5m
575500	6391500	G84581	<	-	-	<	6	19	38	2.2	1	nodular, 0.4m
575500	6391000	G84582	<	-	-	<	5	12	18	4.1	<	calcareous residual soil, 0.7m
575500	6390500	G84583	<	-	-	<	6	5	6	24.8	4	nodular, 0.3m
575500	6390000	G84584	<	-	-	<	8	6	9	17.9	3	nodular, 0.3m
575500	6389500	G84585	<	-	-	<	5	2	4	19.7	<	nodular, 0.3m
575500	6389000	G84586	<	-	<	<	18	3	8	8.5	1	Pisolites, 0.2m
575500	6388500	G84587	<	-	-	<	16	5	21	20.8	3	nodular, 0.3m
579000	6387000	G84588	<	1	-	<	9	4	10	12.5	1	Pisolites, 0.4
579000	6388000	G84589	<	-	-	<	7	3	4	24.4	<	nodules + Massive from creek bed, 0.1m
577000	6388000	G84590	<	<	-	<	10	3	6	26.9	<	nodular, 0.1m
577000	6389000	G84591	<	-	-	<	13	5	19	13.4	2	pisolites, 0.4m

EASTING	NORTHING	SAMPLE	Au (ppb)	Au(R)	Au(S)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ca (%)	As (ppm)	DESCRIPTION
577000	6390000	G84592	<	-	-	<	10	3	6	27.6	<	Massive + nodular, 0.1m
577000	6391000	G84593	<	-	-	<	8	6	10	7.1	<	pisolites + flat, 0.5m
577000	6392000	G84594	<	-	-	<	9	12	23	11.3	2	residual calcareous soil with calc coat, 0.3m
578000	6392000	G84595	<	-	-	<	7	3	5	23.8	1	nodular, 0.1m
578500	6391000	G84596	<	-	-	<	9	3	8	1.7	2	residual calcareous soils with calc coat, 0.3m
578500	6390500	G84597	<	-	-	<	6	2	7	1.07	1	nodular, 0.3m
578500	6390000	G84598	1	-	-	<	12	1	4	17.9	<	nodular, 0.2m
578000	6390000	G84599	1	-	-	<	5	2	3	22.2	3	nodular, 0.3m
578500	6389500	G84600	<	-	-	<	6	3	3	28.2	2	nodular, 0.3m
579000	6389000	G84601	<	-	-	<	6	5	2	1.45	<	Ang sml to med calc chips, 0.3m
579000	6389500	G84602	<	-	-	<	8	9	11	8.85	<	Laminated, 0.5m
579500	6389500	G84603	<	<	-	<	10	5	10	18.8	2	Laminated, 0.6m
580000	6389500	G84604	<	-	-	<	11	4	8	22.4	<	Massive + nodular, 0.3m
580500	6389000	G84605	<	-	-	<	11	4	7	29.1	2	nodular, 0.1m
580000	6389000	G84606	1	1	-	<	12	4	8	21.9	<	nodular, 0.1m
579500	6389000	G84607	1	-	-	<	20	4	11	16.4	2	Laminated + pisolites, 0.5m
579500	6388500	G84608	<	-	-	<	8	3	9	7.7	2	nodular, 0.4m
580000	6388500	G84609	<	-	-	<	18	3	10	18.9	<	nodular, 0.5m
580500	6388500	G84610	1	-	-	<	16	2	6	28.4	2	Massive, 0.1m
581000	6388000	G84611	<	-	<	<	17	6	25	6	1	pisolitic, 0.5m
580000	6388000	G84612	<	-	-	<	12	4	17	8.45	<	pisolitic, 0.6m
580000	6387000	G84613	<	-	-	<	9	4	12	14.8	<	pisolitic, 0.5m
581000	6387000	G84614	1	-	-	<	8	3	5	30.3	1	Massive, 0.1m
579500	6390000	G84615	1	-	-	<	20	4	12	18.1	3	Laminated chips, 0.5m
579500	6390500	G84616	<	-	-	<	8	3	5	27.1	<	nodular, 0.1m
579500	6391000	G84617	<	-	-	<	11	4	9	21.4	<	nodular, 0.3m
579500	6391500	G84618	<	-	-	<	16	3	8	23.3	<	nodular, 0.4m
579000	6391500	G84619	<	1	-	<	9	4	6	23.4	<	nodular, 0.4m
579000	6391000	G84620	<	-	-	<	22	4	16	13.3	<	Massive, 0.2m
579000	6390500	G84621	<	-	-	<	8	5	16	0.343	<	residual calcareous soil, 0.6m
579000	6390000	G84622	<	-	-	<	14	8	19	3.35	<	Laminated, 0.5m
582000	6391000	G84623	<	<	-	<	5	3	4	16.6	<	nodular, 0.1m
583000	6391000	G84624	<	-	-	<	7	2	5	16.6	1	nodular, 0.1m
584850	6392100	G84625	<	-	-	<	3	2	<	0.417	<	Massive, taken in creek bed, 0.5m
583000	6392000	G84626	<	-	-	<	6	3	4	11.2	<	nodular, 0.2m
582000	6392000	G84627	<	-	-	<	5	4	1	0.203	6	calcareous residual, 0.2m

METHOD
LDETECTION

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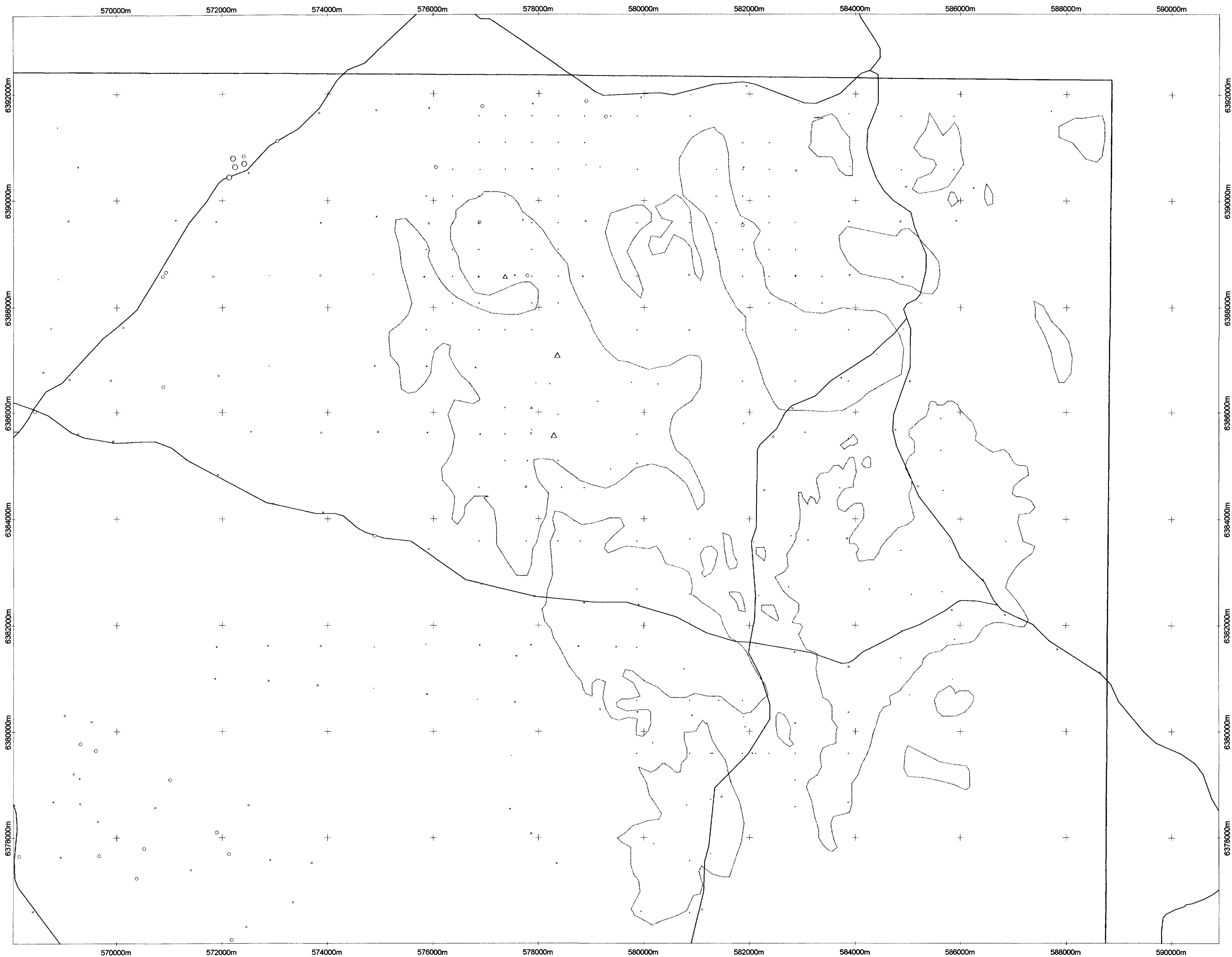
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Easting	Northing	Sample	Au (ppb)	As (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)
655570	6366800	G84031	1	<1	19	9	66	<0.2
654950	6366780	G84032	1	<1	14	5	28	<0.2
654660	6366770	G84033	2	<1	35	6	56	<0.2
654020	6366780	G84034	<1	<1	10	246	21	<0.2
653630	6366780	G84035	1	<1	15	18	34	<0.2
653500	6366770	G84036	2	<1	11	17	330	<0.2
653300	6366800	G84037	2	<1	2	17	95	<0.2
653100	6366750	G84038	2	<1	4	16	17	<0.2

**APPENDIX 3: ROCK & DRILL SAMPLE GEOCHEMICAL
RESULTS**

EASTING	NORTHING	DESCRIPTION	Au (ppb)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	As (ppm)	SAMPLE NO.
562875	6384260	Siliceous quartz-carbonate-chlorite altered schist (Hutchison Group).RAB	30.5	4.5	15.2	356	39.9	7	G82441
567640	6378400	Haematitic quartz phyric granite with minor quartz-sericite. RAB	X	0.2	2.6	20	4.2	X	G82442
567680	6378500	Greisenised granite. RAB chips.	X	0.4	3.4	31	17.3	X	G82443
567800	6378700	Saprolite and minor unoxidised schist. Yellow staining after sulphides. RAB	X	0.2	8.3	31	42	X	G82444
561660	6385170	Pyrite-carbonate-qtz altered gneiss/schist. RAB.	X	0.5	27.8	105	181	X	G82445
568868	6379300	RAB amphibolite/chlorite schist	X	X	20	6	1725	X	G84061
568787	6379226	RAB Lam ferruginous quartz/gneiss	X	X	20	8	251	X	G84062
568756	6379163	RAB 50% grey qtz + 50% Chl sheared amphibolite	X	0.2	43	472	1150	2	G84063
568749	6379127	RAB Sheared chl amphibolite, and quartz	X	0.3	308	805	2440	X	G84064
568773	6378300	RAB Sheared chl amphibolite, and quartz	X	X	22	25	238	X	G84065
569196	6378610	RC sheared chl amph, gneiss & granite, GRV	X	X	14	20	131	X	G84066
569330	6378680	RC sheared chl amph, gneiss & granite, GRV	X	X	10	347	514	4	G84067
569130	6378430	RAB Grey sil rock (gneiss)	1	45.4	979	2900	15100	6	G84068
568185	6379480	RC grey chlorite sericite gneiss, schist, GRV, granite, basalt	X	0.3	12	195	405	X	G84069
568310	6379700	RC grey chlorite sericite gneiss, schist, GRV, granite, basalt	X	X	26	63	175	X	G84070
568190	6379840	RAB grey silica	X	0.5	36	228	105	X	G84071
568070	6379660	RC grey silica + chlorite-sericite schist	X	X	14	8	66	1	G84072
568050	6379620	RC grey silica + chlorite-sericite schist	X	X	12	13	78	1	G84073

SAMPLE NO.	EASTING	NORTHING	DESCRIPTION	Au (ppb)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	As (ppm)
G84142	575350	6386950	Blue-grey chl qtz vein subcrop	X	X	29	X	10	X
G84143	575180	6386885	Banded Chl chert	X	X	17	X	6	X
G84148	576300	6386660	Maganese + nod magnesite, prosp pit	X	X	152	6	50	10



Calcrete Gold Geochemistry (ppb) - Aurora Gold

- 0.1
- 0.1 - 1
- △ 1 - 2
- △ 2 - 3
- △ 3 - 6

Calcrete Gold (ppb) - Minotaur Gold

- 0.02 - 0.65
- 0.65 - 1
- 1 - 1.5
- 1.5 - 2.4
- 2.4 - 5.5

○ Residual Soil Development

□ EL 2260 'Black Eagle' Outline

▬ Roads

2 0 2 Kilometers

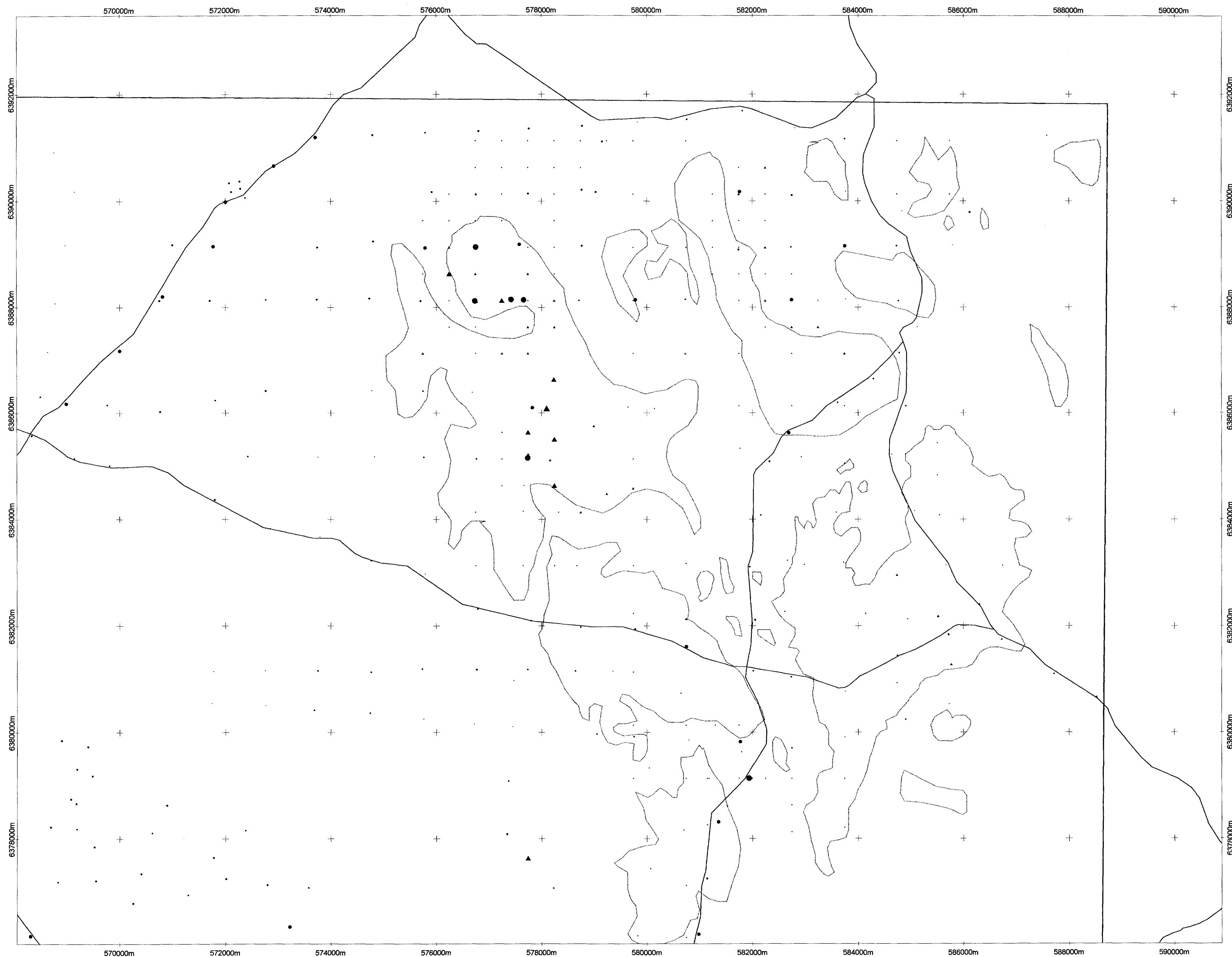
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AURORA GOLD LTD

EL 2260 BLACK EAGLE
CALCRETE GOLD
GEOCHEMISTRY

File: Blackapr Date: January 1999
Compiled: GT Drawing: S632-082-01



Calcrete Copper Geochemistry (ppm) - Aurora Gold

- 3 - 9
- 10 - 14
- 15 - 24
- ▲ 25 - 41
- ▲ 42 - 147

Calcrete Copper (ppm) - Minotaur Gold

- 4 - 10
- 11 - 14
- 15 - 19
- 20 - 36
- 37 - 73

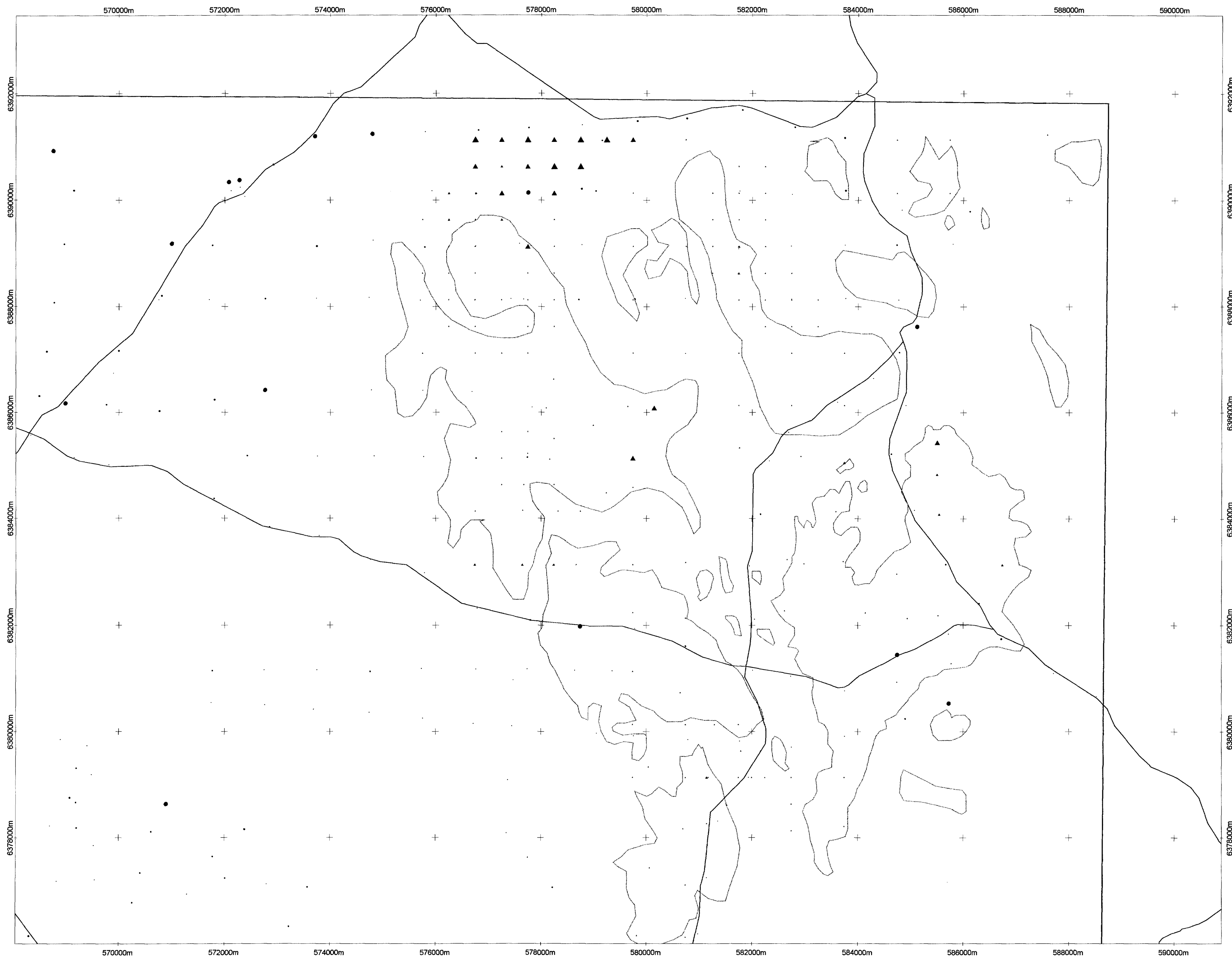
□ Residual Soil Development
 □ EL 2260 'Black Eagle' Outline
 ≡ Roads

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9329-2

AURORA GOLD LTD
EL 2260 BLACK EAGLE
CALCRETE COPPER
GEOCHEMISTRY

File: Black.apr Date: January 1999
Compiled: GT Drawing: S532-062-02



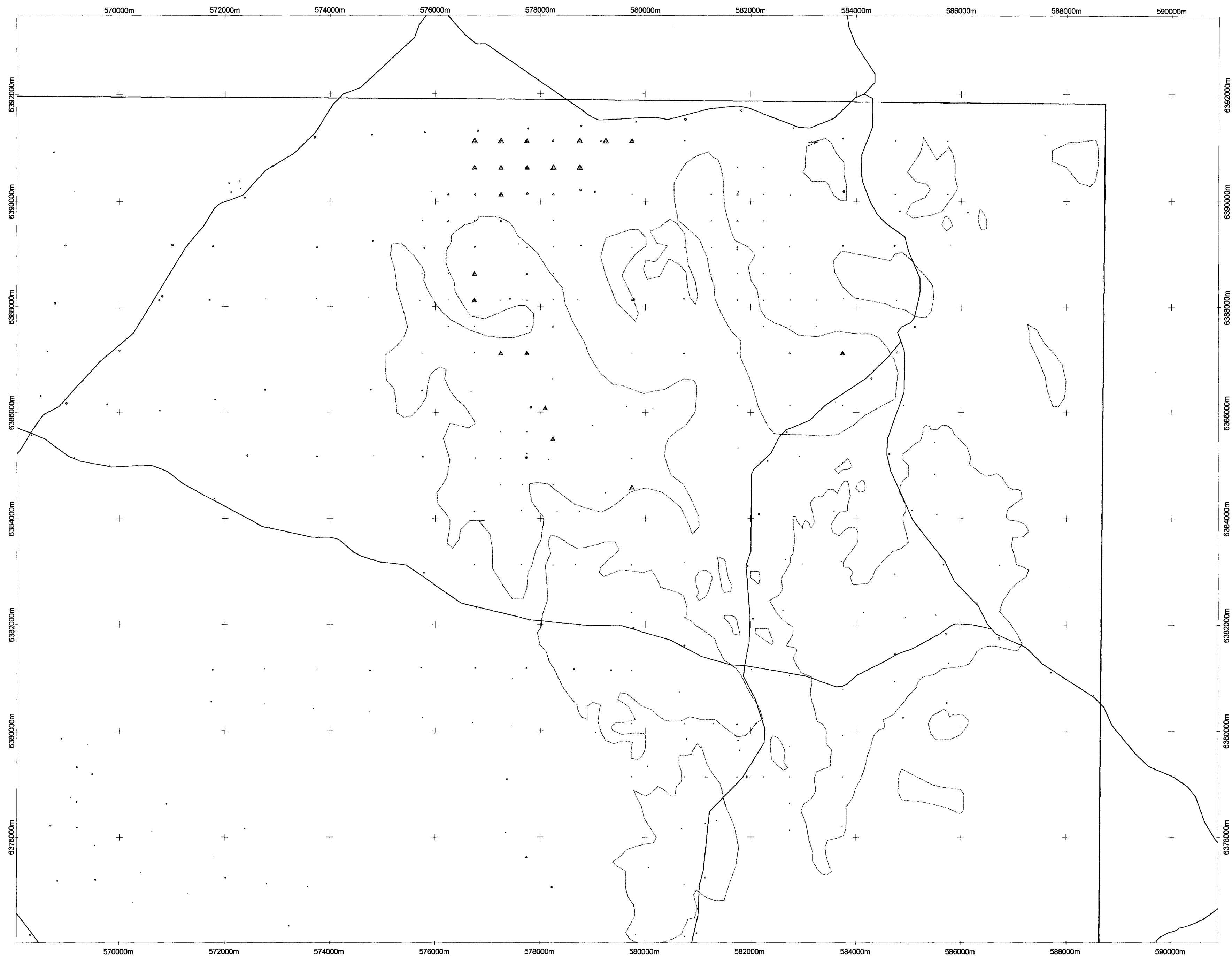
Calcrete Lead Geochemistry (ppm) - Aurora Gold
 • 0.5 - 3
 • 3 - 6
 • 6 - 10
 ▲ 10 - 16
 ▲ 16 - 24
 Calcrete Lead (ppm) - Minotaur Gold
 • 0 - 6
 • 7 - 10
 • 11 - 14
 • 15 - 22
 • 23 - 40
 □ Residual Soil Development
 □ EL 2260 'Black Eagle' Outline
 ≡ Roads

2 0 2 Kilometers
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9329-3

AURORA GOLD LTD
 EL 2260 BLACK EAGLE
 CALCRETE LEAD
 GEOCHEMISTRY

File: Black.apr Date: January 1999
 Compiled: GT Drawing: S532-062-03



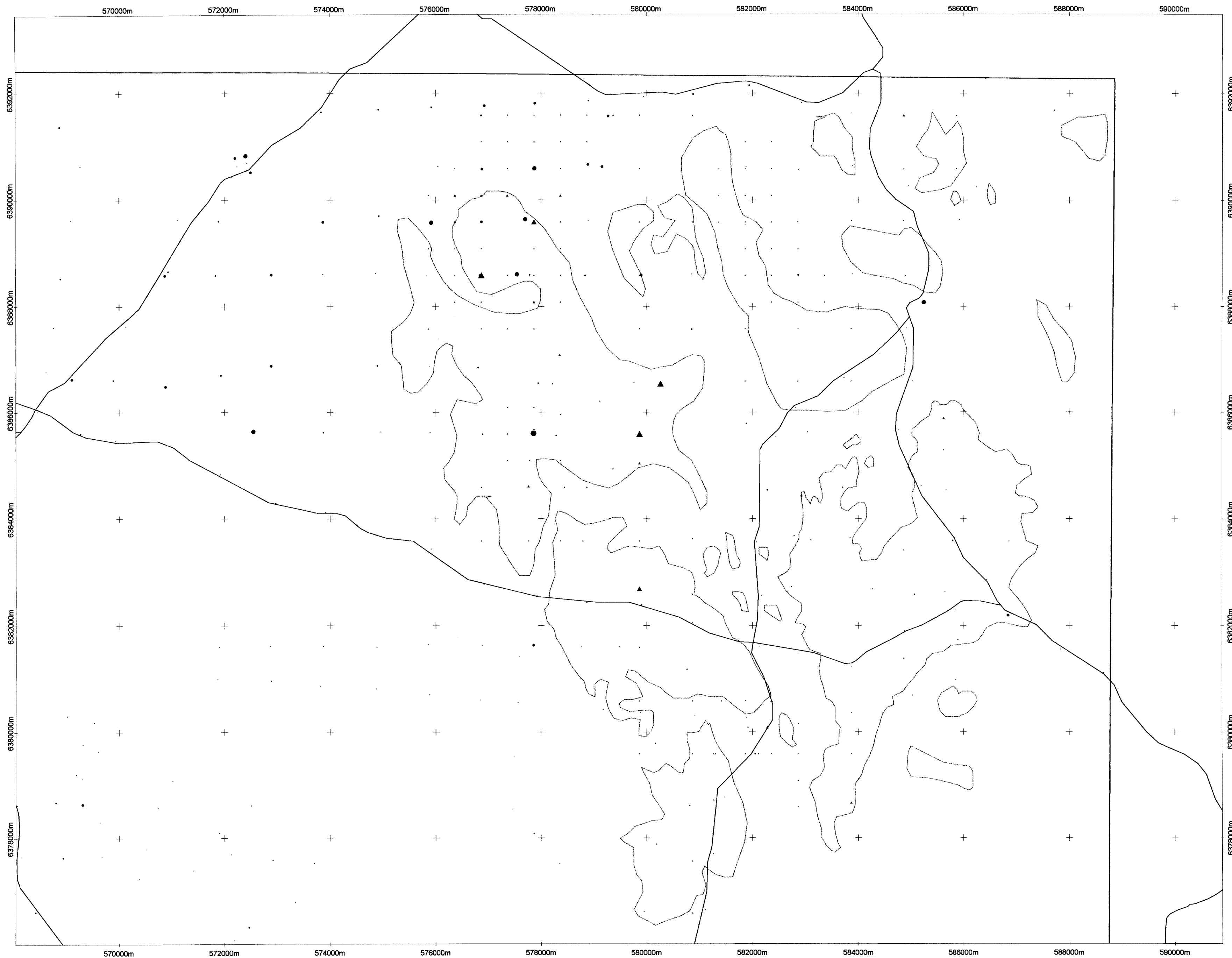
Calcrete Zinc Geochemistry (ppm) - Aurora Gold
 • 0.5 - 7
 • 7 - 13
 ▲ 13 - 21
 ▲ 21 - 32
 ▲ 32 - 58
 Calcrete Zinc (ppm) - Minotaur Gold
 • 1 - 13
 • 14 - 21
 • 22 - 33
 • 34 - 71
 • 72 - 190
 □ Residual Soil Development
 □ EL 2260 'Black Eagle' Outline
 X Roads

2 0 2 Kilometers
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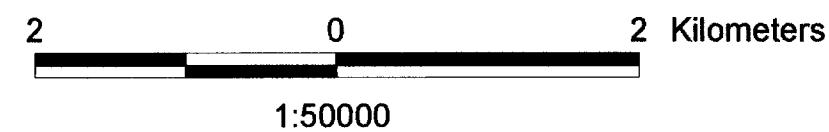
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AURORA GOLD LTD
 EL 2260 BLACK EAGLE
 CALCRETE ZINC
 GEOCHEMISTRY

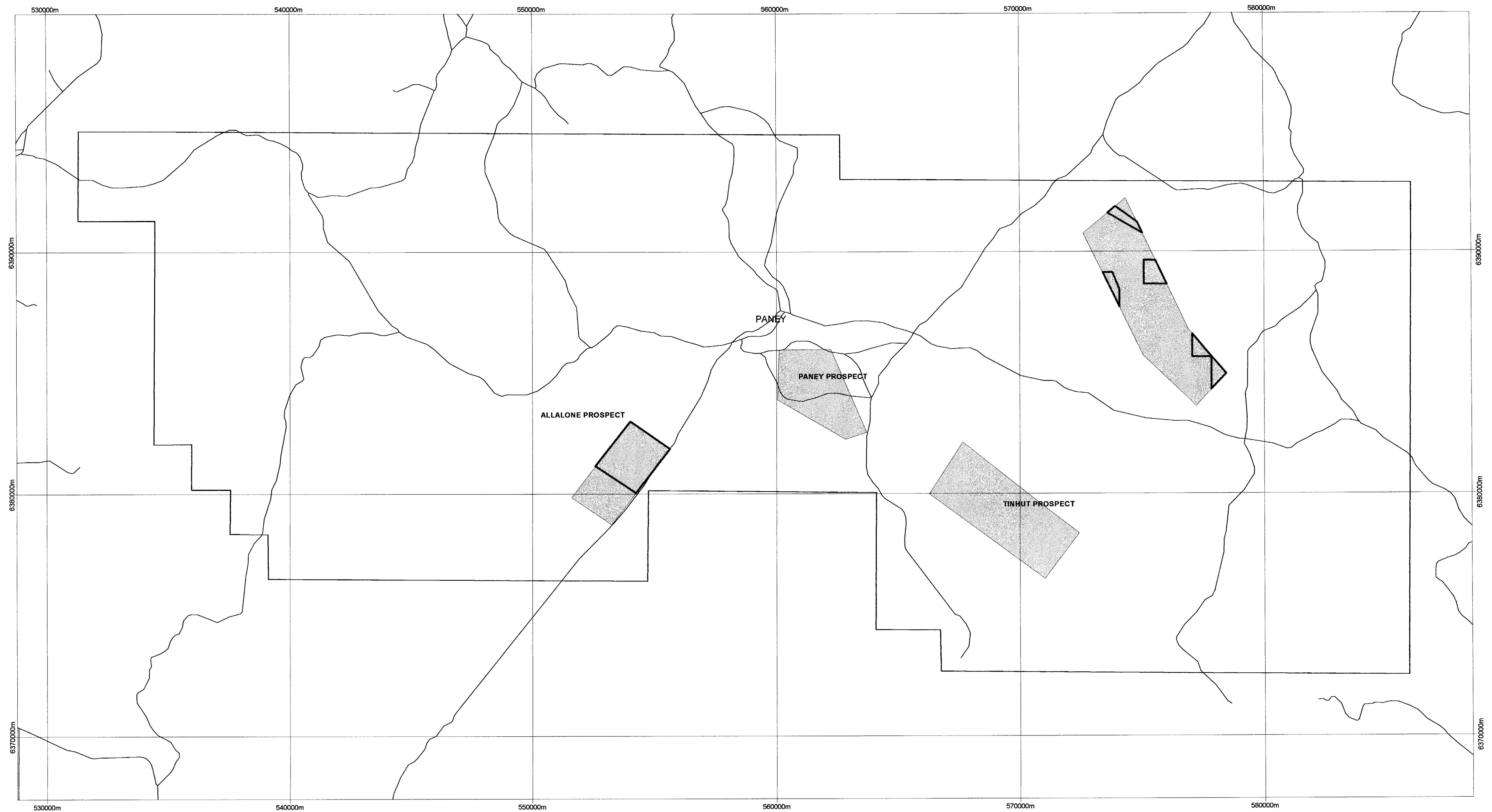
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 Compiled: GT Drawing: S532-062-04



Calcrete Arsenic Geochemistry (ppm) - Aurora Gold
• 0.5 - 1
• 1 - 3
▲ 3 - 7
▲ 7 - 16
▲ 16 - 33
Calcrete Arsenic (ppm) - Minotaur Gold
• 0.5 - 4
• 4 - 7
• 7 - 14
• 14 - 33
• 33 - 94
Residual Soil Development
EL 2260 'Black Eagle' Outline
Roads



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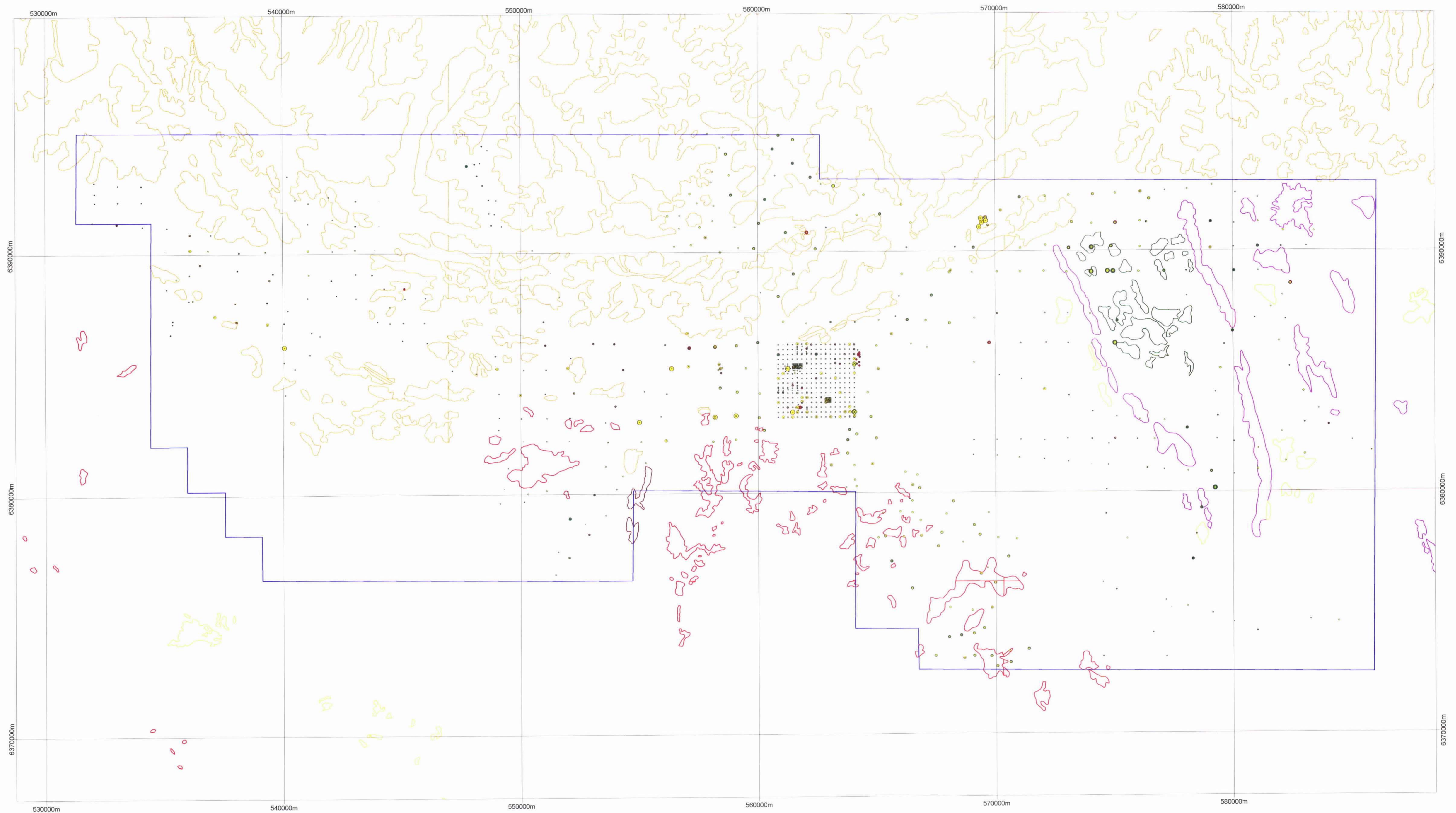


EL 2260 'Black Eagle' Outline
Roads
Cultural Exclusion Zones
Prospect Clearance Area

2 0 2 Kilometers
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AURORA GOLD LTD	
EL 2260 BLACK EAGLE ABORIGINAL CLEARANCE AREAS	
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EL 2260 'Black Eagle' Outline
Roads

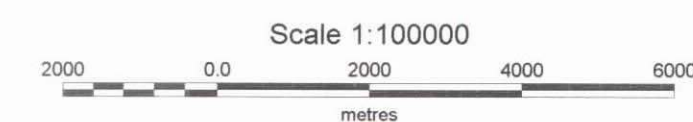
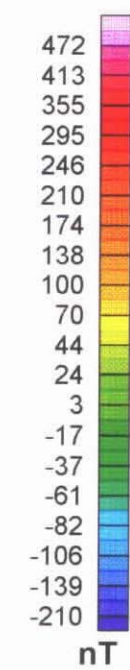
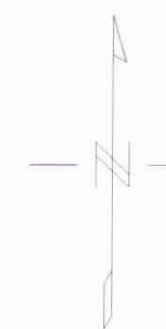
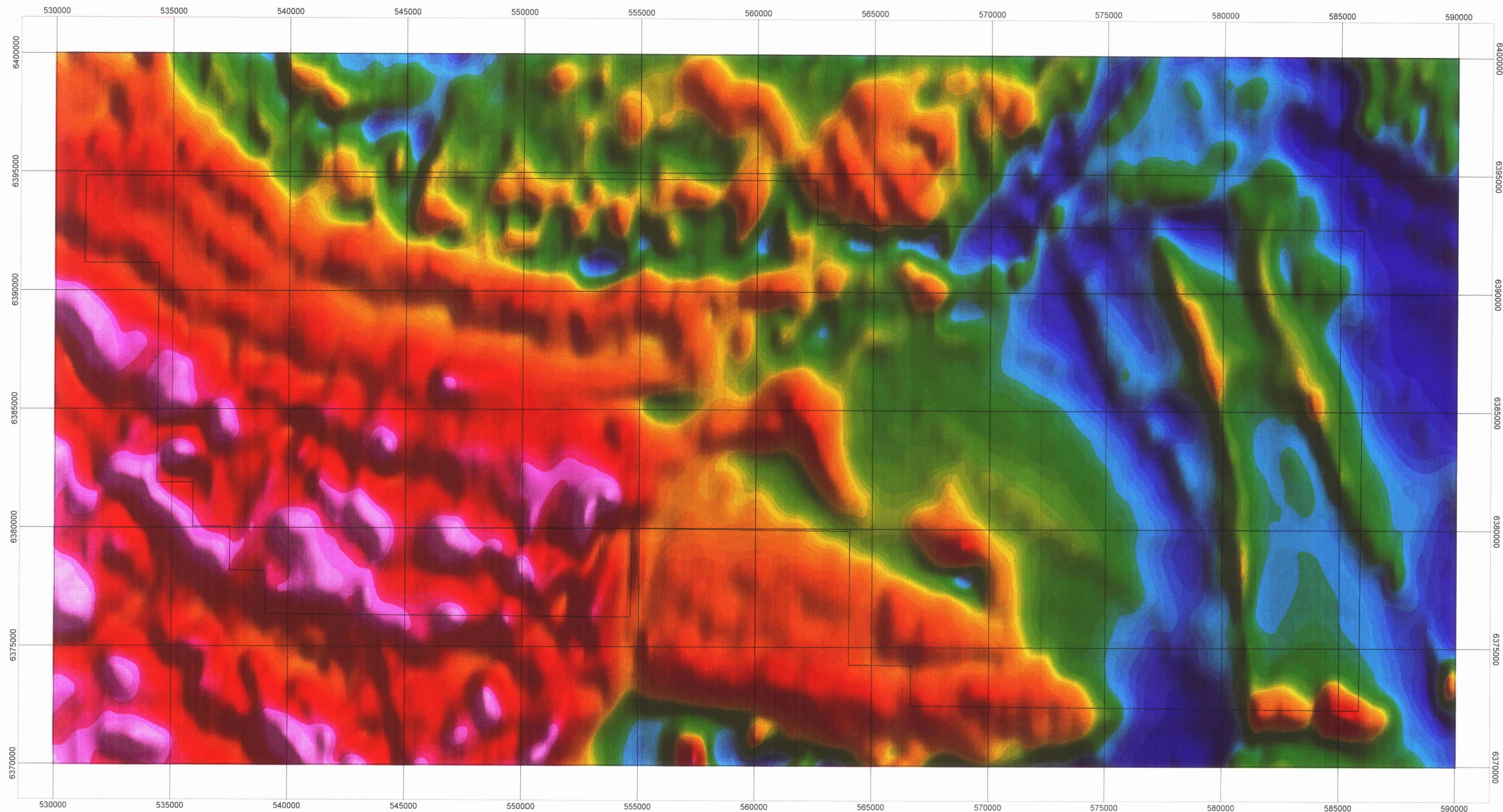
Gawler Range Volcanics
Corunna Conglomerate
Hiltaba Suite
Middleback Subgroup
Warrow Quartzite
Sleaford Complex

Calcrete Mo(ppm)
- 0.3 - 0.7
+ 0.7 - 1.5
+ 1.5 - 2.6
+ 2.6 - 6
+ 6 - 16
Calcrete Au(ppb)
- 0.02 - 0.65
- 0.65 - 1
+ 1 - 1.5
+ 1.5 - 2.4
+ 2.4 - 5.5

Calcrete Cu (ppm)
- 4 - 10
+ 11 - 14
+ 15 - 19
+ 20 - 36
+ 37 - 73
Calcrete As (ppm)
- 0.5 - 4
- 4 - 7
+ 7 - 14
+ 14 - 33
+ 33 - 94

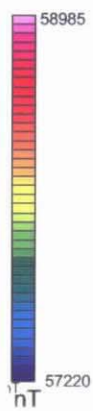
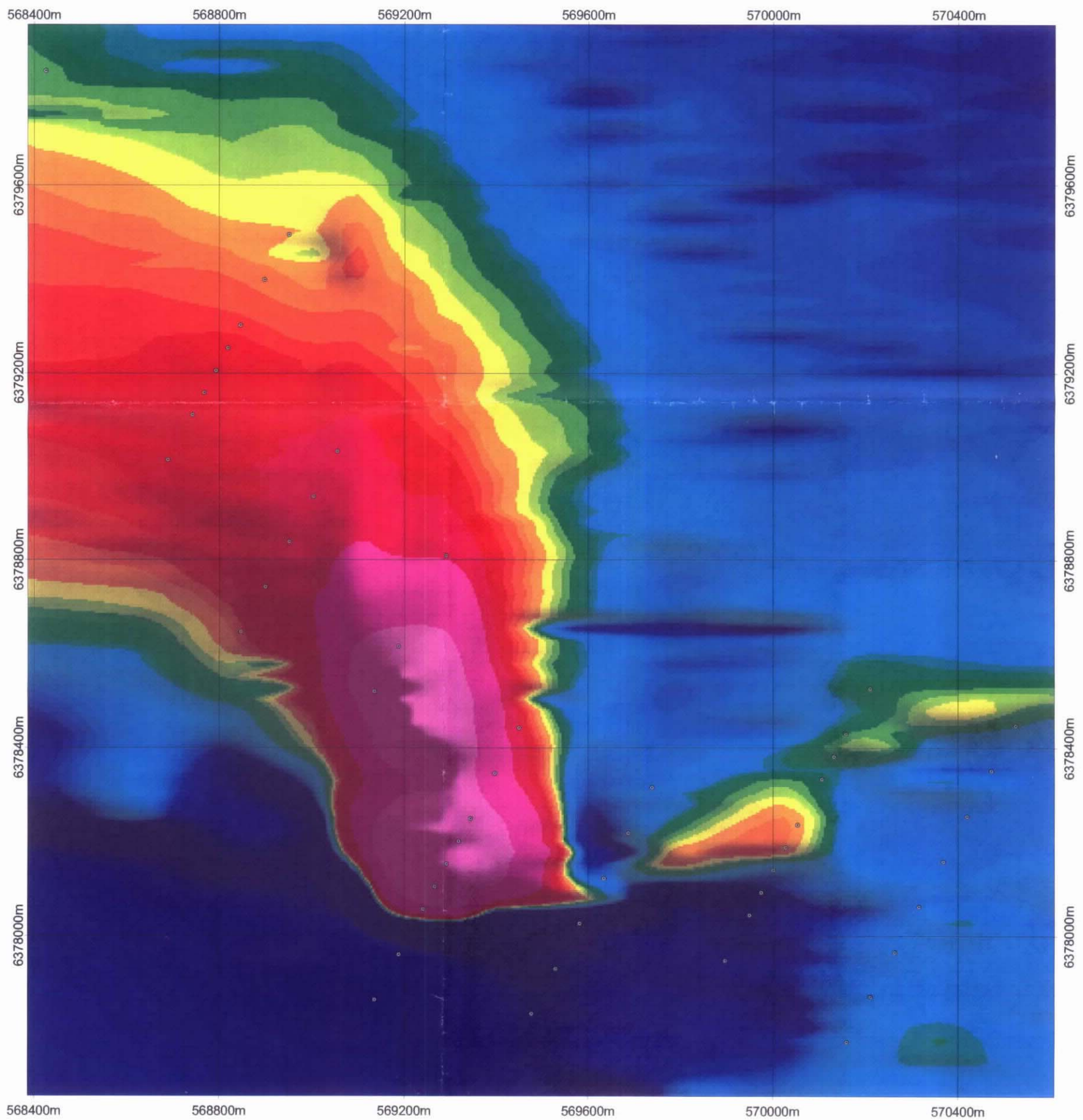
2 0 2 Kilometers
1:100000

9329-7



9329-8

AURORA GOLD LTD
EL 2260 BLACK EAGLE AEROMAGNETICS 100m grid cell size
File: EPBEMTF.MAP; Compiled: GT Date: January 1999; Drawing: S532-081-01



• Aberfoyle Aircore Holes

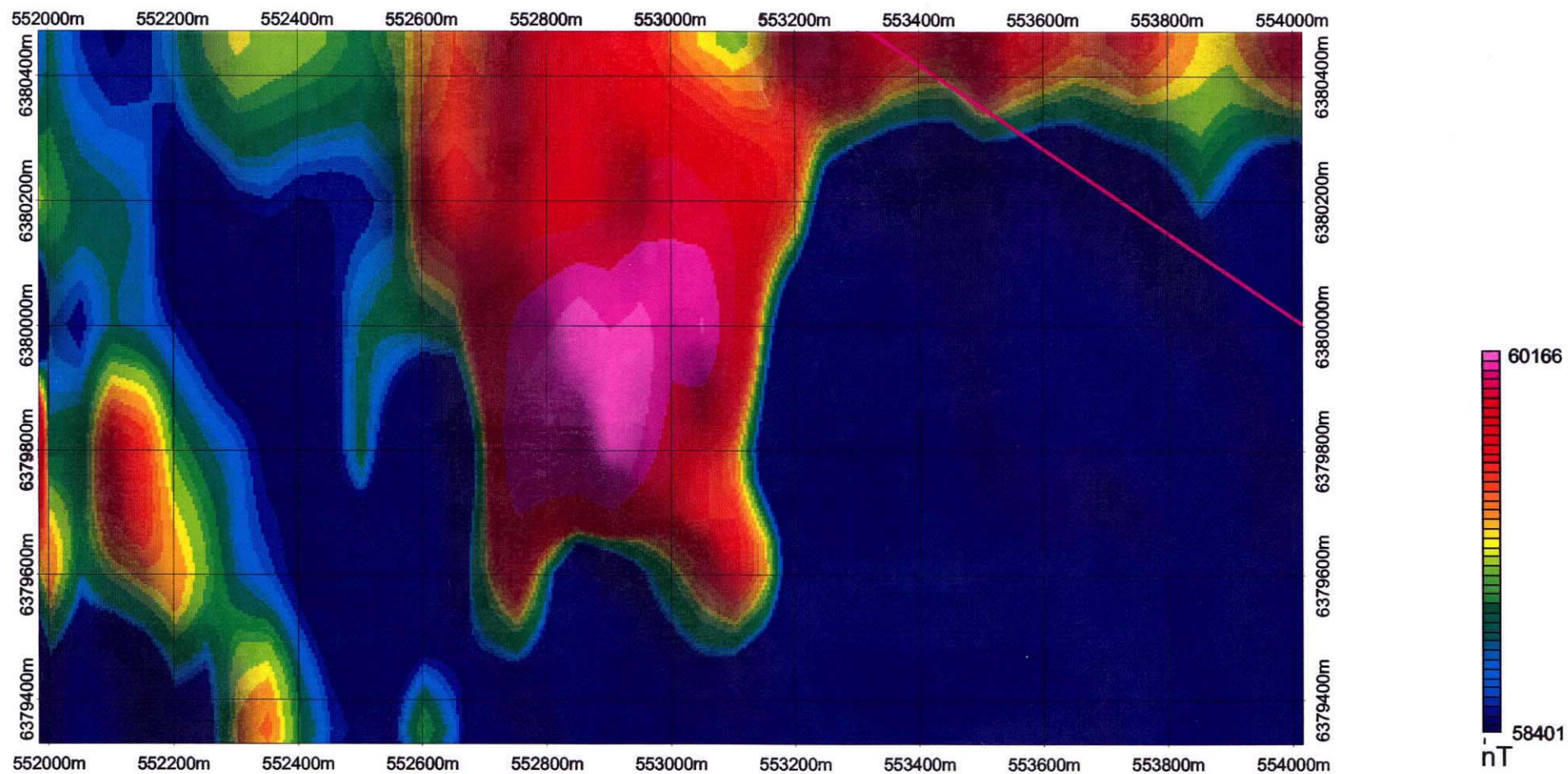


9329-9

AURORA GOLD LTD
EL 2260 BLACK EAGLE
GROUND MAGNETICS
TINHUT PROSPECT

File: Black.apr
Compiled: GT

Date: January 1999
Drawing: S532-082-01



AURORA GOLD LTD

**EL 2260 BLACK EAGLE
GROUND MAGNETICS
ALLALONE PROSPECT**

File: Black.apr
Compiled: GT

Date: January 1999
Drawing: S532-082-02



PROGRESS REPORT

BLACK EAGLE PROJECT

South Australia

Exploration Licence 2260

For the Period

10 January 1999 to 31 March 1999

AURORA GOLD (W.A.) PTY LTD

S532 BLACK EAGLE PROJECT
South Australia

PROGRESS REPORT

for the period

10 January 1999 to 31 March 1999

Exploration Licence 2260

Operated by:

AURORA GOLD (W.A.) PTY LTD
PO Box 805
WEST PERTH WA 6872

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April 1999

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FIGURES

Figure 1 Location of EL 2260 Black Eagle

PLANS

Drawing No	Title	Scale
S532-042-02	Outcrop Geology and Prospect Locations	1:100000
S532-063-01	Drill section 6378450N - Tinhut Prospect	1:1000
S532-063-02	Drill section 6378100N- Tinhut Prospect	1:1000
S532-063-03	Drill section 6379850N - Allalone Prospect	1:1000
S532-082-03	Ground Magnetics and Drill hole locations, Tinhut Prospect	1:10000
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APPENDICES

Appendix 1	Drill logs
Appendix 2	Drill sample geochemical results

ABSTRACT

Exploration Licence 2260, Black Eagle, was granted to Minotaur Gold NL on the 10th January, 1997. Following evaluation of a number of Minotaur Gold projects, Aurora Gold (W.A.) Pty Ltd considered Exploration Licence 2260 to be prospective for gold and copper mineralisation. Agreement on the terms of a joint venture was reached with Minotaur Gold NL in November, 1998. Exploration by Aurora Gold between October and December 1998 included participation in Aboriginal access negotiations, liaison with property owners, calcrete geochemical sampling and ground magnetics. No significant calcrete geochemical anomalies were disclosed. Ground magnetics defined bullseye anomalies at the Tinhut and Allalone prospects where RAB and aircore drill testing was conducted in February 1999. Although several strongly anomalous base metal and/or silver intercepts were obtained, no significantly anomalous gold intercepts were obtained. Consequently, further gold only exploration work on EL 2260 can not be justified. Aurora withdrew from the joint venture.

KEYWORDS

Aurora Gold, Minotaur Gold, joint venture, gold, copper

COMMODITIES

Gold, Copper.

LOCALITY / NEAREST TOWN

Kimba - 80 kilometres southeast of EL2260.

LATITUDE

32° 40' 00" S

LONGITUDE

135° 40' 00" E

1:250,000 Map No: SI 53

1:250,000 Map Name: Yardea

1.0 INTRODUCTION

Following a review of a number of projects held by Minotaur Gold NL (ACN 061 559 840) in the Gawler Craton, Aurora Gold (W.A.) Pty Ltd (ACN 009 215 089) considered Exploration Licence 2260 to be prospective for gold and copper mineralisation on the basis of:

- Palaeoproterozoic Hutchison Group metasediments present in the area of the Licence are conducive to replacement or skarn styles of mineralisation.
- Very little exploration for gold + copper mineralisation has been undertaken by previous explorers.
- Recent reverse circulation drill testing in a similar stratigraphic package by Acacia Resources/Western Metals sixty kilometres east of EL2260 intersected high grade gold values including 9m at 24.6 g/t Au and 7m at 18.5 g/t Au at the Weednanna Prospect.
- A low order copper + arsenic + molybdenum anomaly was obtained in widely spaced (1km x 1km) calcrete samples by Minotaur Gold over Hutchison Group metasediments in the northeast portion of the Licence. A large area of favourable stratigraphy had not been sampled.
- Major structures with magnetite alteration zones juxtaposed against Hiltaba Suite granite.

1.1 TENURE

Exploration Licence 2260 was granted to Minotaur Gold NL on January 10th 1997 for one year, with an initial expenditure commitment of \$120 000. The Licence was renewed for further one year periods in 1998 and 1999. Agreement on the terms of a joint venture was reached between Aurora Gold (W.A.) Pty Ltd and Minotaur Gold NL in November 1998. Aurora Gold is the manager of the joint venture.

1.2 LOCATION AND ACCESS

The Licence is some 942 km² in area and is located within the Paney and Buckleboo Pastoral Leases approximately 80 kilometres north of Kimba (Figure 1). Access to the Licence area is via unsealed Local Council roads and Station tracks.

2.0 EXPLORATION SUMMARY

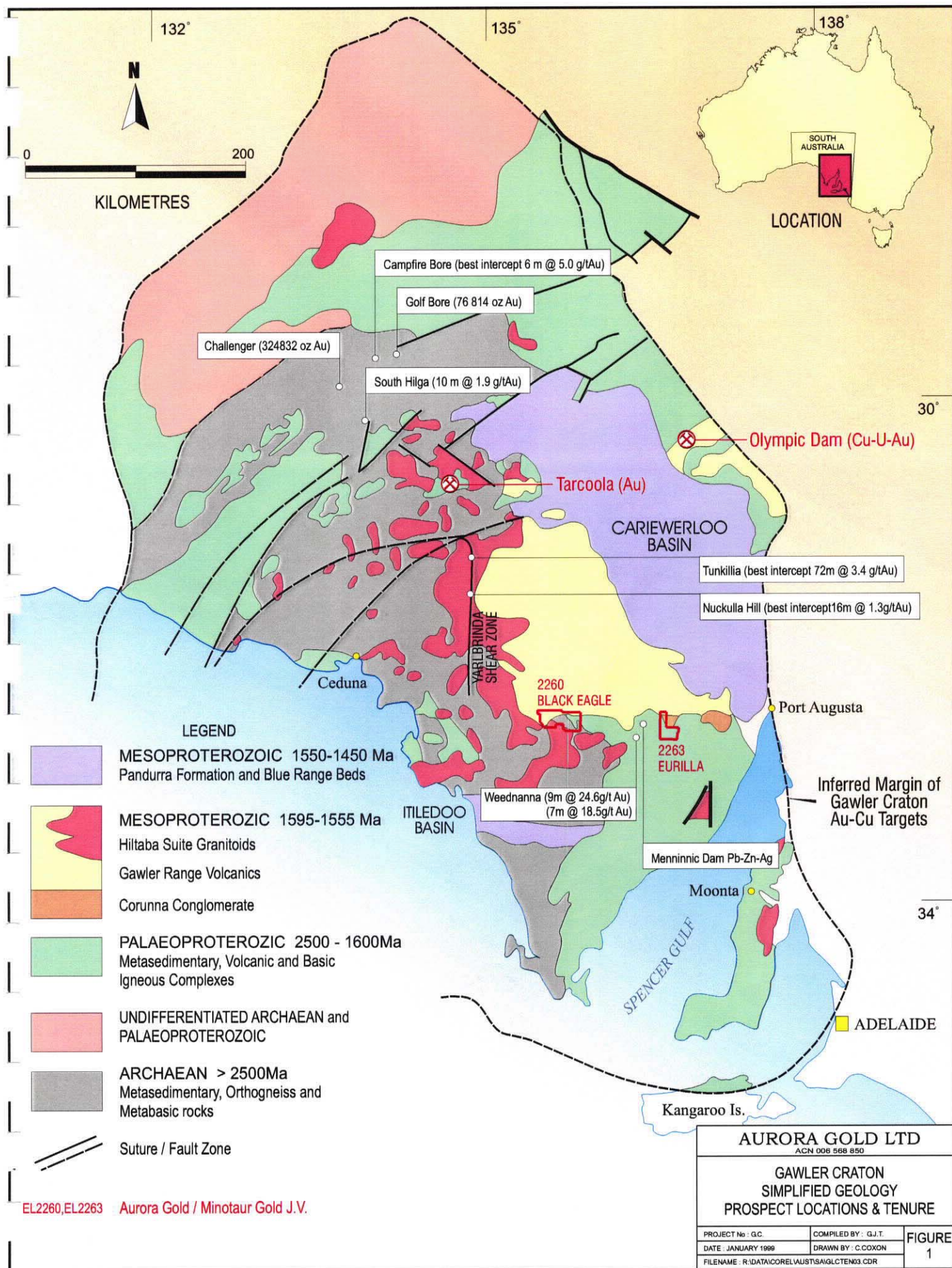
For the reporting period, 10 January - 31 March 1999, the following work was conducted:-

- Two traverses of aircore holes were drilled on 50m (or 100m) centres across the peaks of the magnetic highs at the Tinhut Prospect. In total, thirteen holes were drilled comprising 590.5m of aircore and 24m of RAB.
- Two aircore holes (81m) and one RAB hole (45m) were drilled on 100m centres to test a magnetic high at the Allalone Prospect.

3.0 DESCRIPTION OF WORK UNDERTAKEN

3.1 GEOLOGY

Exploration Licence 2260 is located on the Yardea 1:250 000 geological sheet and predominantly covers Mesoproterozoic Gawler Range Volcanics and Palaeoproterozoic Hutchison Group metasediments.



3.1.1 Surface Environment

The Gawler Range Volcanics and Hiltaba Suite granite form prominent hills in the north, west and central south of the Licence. In contrast, Hutchison Group metasediments have largely been recessively eroded and consequently, the bulk of the eastern half of the Licence area consists of peneplains, sheet wash areas and ephemeral lakes. Subcrop and outcrop of Hutchison Group metasediments tend to be concentrated in the northeastern portion of the Licence area. Warrow Quartzite forms prominent ridges in the northwestern part of the Licence. Cainozoic sediments and regolith include:

- a) Quaternary red brown residual to largely residual calcareous soil with abundant iron pisolites and well developed nodular calcrete paleosols located in the northeastern half of the Licence and
- b) Quaternary sheetwash sand, silt and minor gravel 1m to 10m in thickness and generally confined to the central south of the Licence. Calcrete is less well developed in this unit and generally consists of interstitial powdery aggregates or cutins around pebbles.

3.1.2 Lithologies

Jurassic: Jurassic Algebuckina Formation silt, sand and gravels up to 50m in thickness are known from past drill testing in the central and central south of the Licence area, particularly in that area northeast of the outcropping Hiltaba Suite granite. In this area, the Algebuckina Formation consists of alluvial fan and channel fill sediments with deposition largely controlled by a series of northwest and north northeast trending faults.

Mesoproterozoic (1600 to 1550 Ma): Gawler Range Volcanics (GRV) comprising predominantly rhyolite to dacite ignimbrites or lava flows outcrop in the northern and western portion of the Licence. These volcanics form the southern edge of a vast volcanic province that extends for over 25,000 km² in the central Gawler Craton. The Lower Gawler Range Volcanics comprise a series of thick bedded, variably magnetic curvilinear units that dip gently to moderately to the north. A fault bounded Hiltaba Suite granite stock outcrops in the central south of the Licence. This is a red, haematitic, medium grained, equigranular granite with little or no evidence of deformation in the available outcrop. Dykes of both altered and unaltered granite and Gawler Range Volcanics are known from past drill testing along the northeastern margin of this granite stock and appear to have played an important role in mineralisation and alteration events.

Corunna Conglomerate comprising coarse fluvial conglomerates, carbonaceous siltstone and green to red sandstone forms a north trending series of prominent hills such as Mt Allalone in the central south of the Licence. The Corunna Conglomerate was deposited in a continental, restricted basin synchronous with deposition of the Lower Gawler Range Volcanics.

Palaeoproterozoic (1900-1850 Ma): In the eastern part of the Licence, the dominant lithologies comprise clastic and chemical metasediments including schists, gneiss, calc-silicates, carbonates and iron formations belonging to the Hutchison Group. The clastic sediments were deposited on a shallow continental shelf. Concordant amphibolites are also an important component of the Hutchison Group.

Well exposed Hutchison Group elsewhere on the Eyre Peninsula consists of the basal Warrow Quartzite, Lower Middleback Jaspilite, Cook Gap Schist and the Upper Middleback Jaspilite overlain by the Yadnarie Schist or the laterally equivalent Bosanquet Formation.

The Warrow Quartzite forms prominent northwest trending ridges and comprises massive to flaggy sandstone with quartz pebble beds in the basal section. The base of the Middleback Subgroup is represented by the Katunga Dolomite which consists of a dolomitic marble with thin bands of serpentine, diopside and tremolite. The Katunga Dolomite grades

laterally and vertically into the Lower Middleback Jaspilite which consists of banded chert + iron oxides + iron silicates + carbonate and locally abundant graphite and iron sulphides. The Cook Gap Schist comprises quartz, mica, garnet ± feldspar ± sillimanite with thin calc-silicate units, pegmatitic segregations and concordant amphibolites. The overlying Upper Middleback Jaspilite is similar to the Lower Middleback Jaspilite. Warrow Quartzite and Cook Gap Schist outcrop in the Licence area. Other units from the Hutchison Group may also be present in the Licence.

Archaean Sleaford Complex: Poorly exposed late Archaean foliated and migmatitic felsic gneisses and gneissic granite represents the basement to the Hutchison Group. Garnet and magnetite bearing gneisses from SADME drillhole WD1 near Warramboos were dated at 2520 ± 163 Ma using the Rb-Sr technique (Parker et al, 1993).

3.1.3 Structure

Regional north northeast and northwest trending fault zones bound the western and eastern margins of the granite stock in the central south of the Licence. These faults effectively separate the Lower Gawler Range Volcanics to the west from Palaeoproterozoic and Archaean stratigraphy to the east. Refraction of these structures is evident as they transgress stratigraphic units.

The east northeasterly trending contact between the Gawler Range Volcanics to the north and Palaeoproterozoic and Archaean sequences to the south in the northwest portion of the Licence appears to be, at least in part, fault controlled.

Northerly to north northwest trending units of Warrow Quartzite maintain a consistent strike for at least ten kilometres with only minor fault offsets. These units may represent thrust repetitions of the same unit.

A spaced northerly to northeasterly striking and moderately to steeply southeast dipping fracture cleavage is evident in the Gawler Range Volcanics. A penetrative steeply dipping, north northwest striking foliation is evident in Palaeoproterozoic and Archaean units.

3.1.4 Mineralisation Models

Potential may exist for the following styles of mineralisation within the Licence area and regionally:

- Epigenetic base metal mineralisation. The Menninnie Dam Ag + Pb + Zn mineralisation sixty kilometres west of EL2260 is an example of epigenetic base metal mineralisation hosted by iron formation and carbonate units. The mineralisation at Menninnie Dam is contemporaneous with the intrusion of Gawler Range Volcanic dykes into Hutchison Group metasediments and is therefore Mesoproterozoic in timing. These dykes have been dated at 1591 ± 15 Ma which is indistinguishable from the mean weighted age of 1589 ± 16 Ma for all dated GRV and Hiltaba Suite granitoids (Roach and Fanning, 1994). Similar styles of basemetal mineralisation have been disclosed by past explorers at the Paney and Tinhut prospects.
- Fault zone or shear zone hosted gold mineralisation associated with late stage Kimban or Kararan structures and associated intrusives.
- Ironstone hosted gold (±copper) mineralisation. The gold mineralisation at the Weednanna Prospect several kilometres west of EL 2263 is rumored to be hosted by iron formation with minor base metal sulphides and arsenopyrite. The better reverse circulation intercepts include 9m at 24.6 g/t Au, 7m at 18.5 g/t Au and 9m at 9.4 g/t Au. The mineralisation occurs over a strike length of 400m to 500m. The timing of this mineralisation is unknown.

3.2 PREVIOUS EXPLORATION

Exploration undertaken during the period January 1997 to October 1998 by Minotaur Gold (Belperio, 1998) consisted of:

- Calcrete sampling (868) on 1 km x 1 km centres throughout most of the tenement with sampling on 200m x 200m or 50m x 50m centres in the area of the Paney magnetic anomaly.
- Participation in a group to prepare a Native Title Mining Agreement to facilitate access to the tenement for exploration.
- Exploration undertaken by Aurora Gold (Taylor, 1999) during the period October 1998 to January 1999 consisted of:
- An Aboriginal heritage clearance programme over four selected areas of the tenement on October 29th, 1998.
- Calcrete sampling (159) on 500m x 500m centres as follow-up to calcrete Cu + Mo +As anomalies or elevated Au values disclosed by Minotaur Gold and on 1km x 1km centres in areas not previously-sampled by Minotaur Gold.
- Drill spoil (18) and rock (3) sampling.
- Ground magnetics on 200m spaced lines at the Tinhut Prospect and the Allalone Prospect. Twenty-three lines totalling 53 kms were completed.

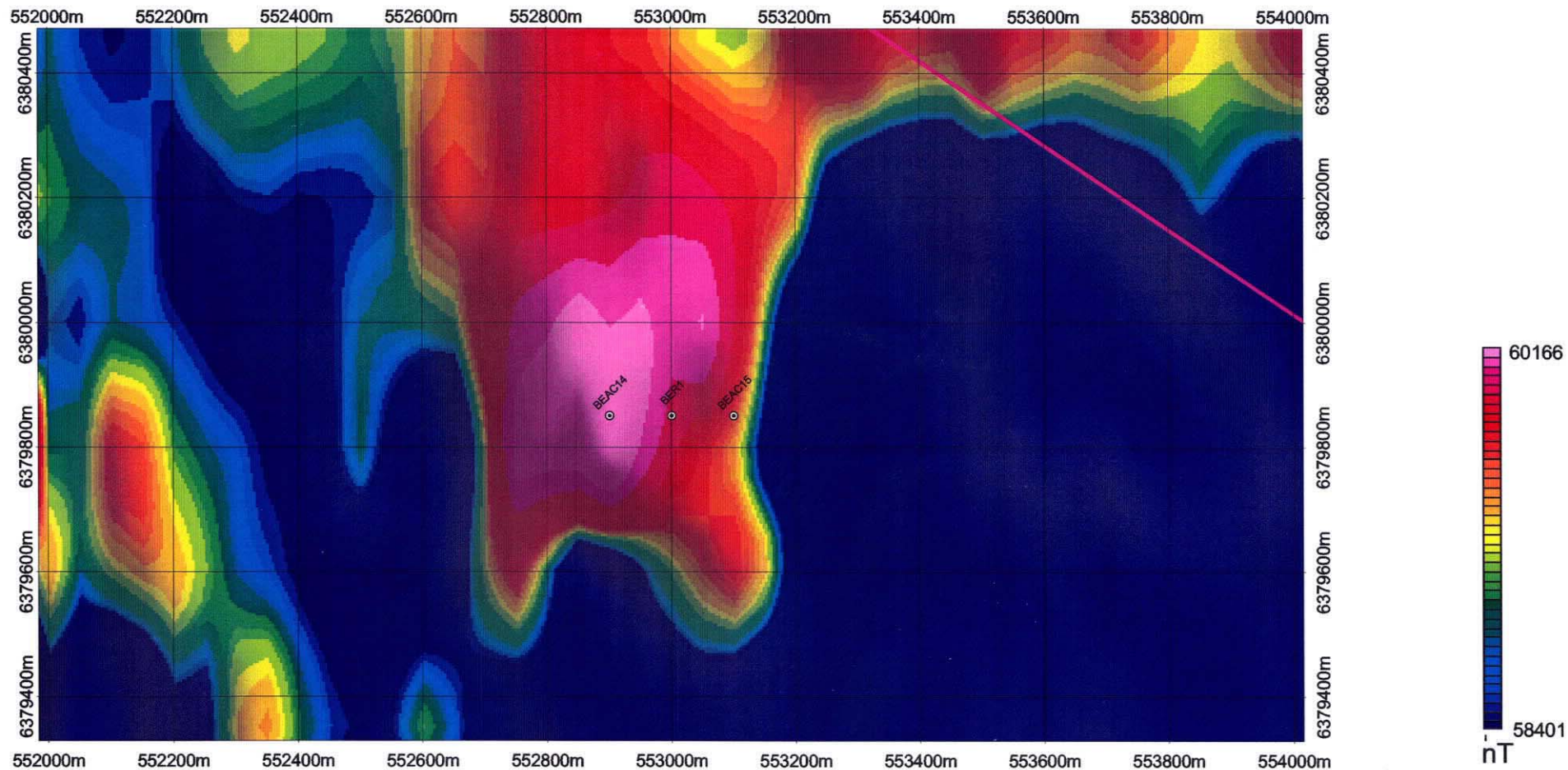
3.3 CURRENT EXPLORATION

During this period drill testing was focussed at two bullseye magnetic highs marginal to a Hiltaba Suite granite located in the central south of the Licence (Drawing Number S532-042-02). The target was gold (+ copper) mineralisation associated with skarn (magnetite bearing) alteration in or adjacent to the sheared contact with granite. The bullseye magnetic anomaly on the western side of the granite (Allalone Prospect) is some 1600nT above background. The twin peaked magnetic anomaly at the Tinhut Prospect located on the eastern side of the granite is some 1600 nT to 1700 nT above background. The magnetic anomaly at the Tinhut Prospect is fault and/or dyke controlled with north northeast and east northeast trending structures evident suggesting that the magnetic source is epigenetic magnetite.

Two traverses of aircore holes were drilled on 50m (or 100m) centres across the peaks of the magnetic highs at the Tinhut Prospect. In total, thirteen holes were drilled comprising 590.5m of aircore and 24m of RAB. Drillholes intersected variably pyritic, bleached, pale grey silicified sediment or granite, mylonitized granite and gneiss, tremolite or chlorite schist, chlorite-graphite bearing siltstone and porphyritic granite. A magnetite bearing chert or volcanic unit intersected in a number of drillholes is believed to be the source of the magnetic anomaly. Jurassic Algebuckina Formation sediments blanket the prospect area to an average depth of 20m. Drill hole locations are provided in Drawing S532-082-03.

Two aircore holes (81m) and one RAB hole (45m) were drilled on 100m centres to test a magnetic high at the Allalone Prospect. Drill holes intersected sericitized polymictic conglomerate and chlorite-pyrite altered diorite. The source of the magnetic anomaly was not intersected in the drillholes. Drillhole locations are provided in Drawing S532-082-04.

The drillholes were located using differential GPS at the Tinhut Prospect and were located with conventional GPS at the Allalone Prospect. Drillholes at both prospects were located using the Australian Geoid '84 Datum. All aircore or RAB samples were collected over 1m intervals with 6m composites submitted to Genalysis, Perth for Au (1 ppb) analyses by method RO/ETA (low level roast), and for Cu (1 ppm), Pb (1 ppm), Zn(1 ppm), As(5 ppm) and Ag(0.1 ppm) analyses by method B/AAS. Analyses are provided in Appendix 2. Drill sections with geochemistry and summary geology for the Tinhut and Allalone Prospects are provided in Drawings S532-063-01/02 and Drawing S532-063-03 respectively.



⊙ Drill Holes
 [Pink Line] Aboriginal Exclusion Zone

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**EL 2260 BLACK EAGLE
 GROUND MAGNETICS and DRILL HOLE
 LOCATIONS - ALLALONE PROSPECT**

File: Black.apr
 Compiled: GT

Date: January 1999
 Drawing: S532-082-04

4.0 DISCUSSION OF RESULTS

Several intercepts of strongly anomalous basemetals and silver were obtained in the drill holes at the Tinhut Prospect. The best intercept is 17m at 10 ppb Au, 0.14 % Cu, 0.24 % Pb, 0.54 % Zn and 15.2 ppm Ag from 37m to end of hole in BEAC10 located on the southwestern margin of the magnetic high. The mineralised interval corresponds essentially with unweathered grey silica-carbonate-sericite-pyrite-magnetite altered siltstone. Part of the mineralised intercept probably represents supergene enrichment. Gold and arsenic values are essentially at background levels. The mineralisation at Tinhut appears to be related to a relatively low temperature, distal hydrothermal event. Consequently, opportunities to discover a Weednanna gold look-alike appear limited. The mineralisation is more akin to that at Menninnie Dam. Intersecting fault/shear zones and possible rhyolite dykes appear to have been a key element in the control of mineralisation at Tinhut.

Elevated copper to 135 ppm and zinc to 560 ppm were obtained in drillholes at the Allalone Prospect associated with chlorite-pyrite altered diorite. A 6m intercept of 3.5 ppm Ag was obtained in hole BEAC14 associated with sericitized conglomerate. Silver is elevated (to 0.8 ppm) in the other two drillholes at the Allalone Prospect. Gold and arsenic values are at background levels. Opportunities to locate gold mineralisation at the Allalone Prospect appear limited.

5.0 RECOMMENDATIONS

Although several strongly anomalous base metal and/or silver intercepts were obtained, no significantly anomalous gold intercepts were obtained. Consequently, further gold only exploration work on EL2260 can not be justified.

6.0 REFERENCES

- Belperio, A.P. 1998. Exploration Licence 2260 Black Eagle. 1st Annual Technical Report for the Period 10/1/97 to 9/1/98. Minotaur Gold NL. Unpublished Report.
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- Roache, M.W. and Fanning, C.M., 1994. Timing of Mineralisation at the Menninnie Dam Pb-Zn-Ag deposit, Eyre Peninsula, South Australia. Geological Society of Australia. Abstracts, 37:376-377
- Taylor, G., 1999. Exploration Licence 2260 Black Eagle Annual Technical Report for the Period 10/1/98 to 9/1/99. Aurora Gold (W.A.) Pty Ltd. Unpublished Report.

APPENDIX I

DRILL LOGS



Drillhole Summary Report

29-Mar-99

Page 1 of 1

Hole ID	Hole Type	REGIONAL GRID				Final Depth	Date Drilled	Tenement
		North	East	R.L.	Grid			
BEAC001	AC	6378450	569350	250	AMG84_53	51.00	02/02/1999	EL2260
BEAC002	AC	6378450	569300	250	AMG84_53	70.00	02/02/1999	EL2260
BEAC003	AC	6378450	569250	250	AMG84_53	45.00	02/02/1999	EL2260
BEAC004	AC	6378450	569200	250	AMG84_53	47.00	03/02/1999	EL2260
BEAC005	AC	6378450	569150	250	AMG84_53	35.00	03/02/1999	EL2260
BEAC006	AC	6378100	569400	250	AMG84_53	49.00	03/02/1999	EL2260
BEAC007	AC	6378100	569350	250	AMG84_53	48.00	03/02/1999	EL2260
BEAC008	AC	6378100	569300	250	AMG84_53	47.00	03/02/1999	EL2260
BEAC009	AC	6378100	569250	250	AMG84_53	30.50	04/02/1999	EL2260
BEAC010	AC	6378100	569200	250	AMG84_53	54.00	04/02/1999	EL2260
BEAC011	AC	6378100	569150	250	AMG84_53	44.00	04/02/1999	EL2260
BEAC012	AC	6378100	569100	250	AMG84_53	41.00	04/02/1999	EL2260
BEAC013	AC	6378100	569500	250	AMG84_53	43.00	04/02/1999	EL2260
BEAC014	AC	6379850	552900	250	AMG84_53	31.00	05/02/1999	EL2260
BEAC015	AC	6379850	553100	250	AMG84_53	50.00	05/02/1999	EL2260
BER001	RAB	6379850	553000	250	AMG84_53	45.00	05/02/1999	EL2260

Total Metres : 730.50

GEOLOGICAL ABBREVIATIONS:

AMP	Amphibolite	SIL	Silcrete
BAS	Basalt	SSO	Sandy, transported soil
BKS	Black Shale	TRE	Tremolite Schist
CAL	Calcrete	WQS	White-mica Quartz Schist
CLY	Clay	CRS	Chlorite-Carbonate Schist
CON	Conglomerate	GRA	Granite
DIR	Diorite		
GNE	Gneiss		
GRA	Graphite-chlorite-sericite schist		
GRI	Grit		
GRV	Gawler Range Volcanics		
JAS	Jasper		
PHY	Phyllite		
SAP	Saprolite		

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RAB DRILL LOG SHEET

HOLE ID: **BEAC 1**

DATE: **2/2/94**

PROJECT NAME:	GEOLOGIST:	LOCAL GRID NAME:	NORTHING:	EASTING:
PROJECT NO:	SAMPLER:	SURVEY METHOD: DGPS	AMGNORTH: 6378450	AMGEAST: 569350
TENEMENT:	DRILL CO:	RL:	AZIMUTH:	DIP: -90
PROSPECT: Timbut	RIG MODEL:	SAMPLE NO'S: 685062 - 685073	TOTAL DEPTH: 51	CAPPED: no

DEPTH		ROCK TYPE					ALTERATION				MINERALISATION					VEINING			COMMENTS	
FROM	TO	LITH CODE	COMP	TEXT	WTH	CLR	FROM	TO	TYPE	[W,M,S]	FROM	TO	TYPE	FORM	%	TYPE	FROM	TO		%
0	1	SSO			W	or														Sandy soil, p. sch. tte, calcareous
1	3	OLY			W	pb														Stiff red brown clay
3	11	SSO			W	or														Sandy transported soil
11	21	SSRI	si		W	wh														Algal breccia sandstone, cemented in part
21	31	OLY	cy		W	yw														Yellow clay with blue grey quartz grains to 2-3mm derived from algal breccia ss. Orange sand at base of algal breccia
31	32	SSO			W	or														
32	35	SAP	cy		SW	gry														Black clay & clays of mass. fine grained pyrite, graphite
35	36	SAP	cy		SW	ink														35-36 black clay with nodules of pyrite
36	47	SAP	cy		SW	gry														Red grey silty clay sediment, moderate cement, very fine grained pyrite, moderate chlorite, some brown iron carbonate
47	51	WQS	si		FW	gry	47	51	SSR	m	47	51	PY	dk						Includes hot dense schist, 16/1m. to 11/1m. from schist
							SAMPLE RECOVERY			WATER		EVENTS		COMMENTS						
							FROM	TO	%	FROM	TO									
												BOTC:		24-32 as one sample; others 6m composite wet samples from 42m - 48m, 49m -						
												BOCO:								
												TOFR:								

**AURORA
GOLD**

RAB DRILL LOG SHEET

HOLE ID: RG 02
DATE: 2/2/04

PROJECT NAME: _____ GEOLOGIST: _____ LOCAL GRID NAME: _____ NORTHING: _____ EASTING: _____
PROJECT NO: _____ SAMPLER: _____ SURVEY METHOD: DGPS AMGNORTH: 6378450 AMGEAST: 569300
TENEMENT: _____ DRILL CO: _____ RL: _____ AZIMUTH: _____ DIP: -90
PROSPECT: Tinhut RIG MODEL: _____ SAMPLE NO'S: 885023-685021 TOTAL DEPTH: 70 CAPPED: NR

DEPTH		ROCK TYPE					ALTERATION				MINERALISATION					VEINING				COMMENTS
FROM	TO	LITH CODE	COMP	TEXT	WTH	CLR	FROM	TO	TYPE	(W,M,S)	FROM	TO	TYPE	FORM	%	TYPE	FROM	TO	%	
0	1	SSO			aw	wh														Sandy calcareous soil
1	5	CLY			aw	br														stiff red brown clay
5	11	SSO			aw	or														Transported sand
11	34	GRI	cy		aw	wh														Algalbioherm sandstone
34	62	SAP	cy		aw	gy														Sandstone-grey muggy clay often carbonaceous metasediment

**AURORA
GOLD**

RAB DRILL LOG SHEET

HOLE ID: **BRAC 4**
DATE: **3/2/94**

PROJECT NAME: _____ GEOLOGIST: _____ LOCAL GRID NAME: _____ NORTHING: _____ EASTING: _____
PROJECT NO: _____ SAMPLER: _____ SURVEY METHOD: **DGPS** AMGNORTH: **6278450** AMGEAST: **564300**
TENEMENT: _____ DRILL CO: _____ RL: _____ AZIMUTH: _____ DIP: **-90**
PROSPECT: **Tinhut** RIG MODEL: _____ SAMPLE NO'S: **G85090 - G85097** TOTAL DEPTH: **47** CAPPED: **MP**

DEPTH		ROCK TYPE			ALTERATION		MINERALISATION					VEINING				COMMENTS
FROM	TO	LITH CODE	COMP	TEXT	WTH	CLR	FROM	TO	TYPE	I(W,M,S)	FROM	TO	TYPE	FORM	%	
0	2	SSO			Clw	rb										Calcareous red brown sand
2	5	CLY			Clw	br										Stiff red brown clay
5	11	SSO			Clw	or										Transported red brown sand
11	25	GRJ	si		Clw	wh										Grt (Alphacalcine formation)
25	27	GRV	si		Clw	tn										Gravelly clay, greenish pebbles to 1cm.
27	29	SAP	cy		Clw	gn										Saprophytic clays, carbonaceous in part
29	33	SAP	cy		Clw	gn										Saprophytic clay, some plastic clays probably all the amphibolite
33	34	JAS	si		PW	rd										Red Jasper with black veins
34	36	PHY	cy		PW	gn	34	36	SER	m						Chlorite - sericite - clay schist strongly laminated.
36	37	BMPP	cy		SW	br	36	37	CL	s						SW in thin dolomite layers
37	39	GRV	si	bc	PW	br	37	39	SI	m						SW laminated chlorite schist clay
																Severely silicified laminite (carbonate) volcanic (?) (G85090)
							SAMPLE RECOVERY		WATER		EVENTS	COMMENTS				
							FROM	TO	%	FROM	TO	BOTC:	Duplicate G85477 18-27m, others br wet samples from 31m Aircon become from 33m			
												BOCO:				
												TOFR:				

AURORA
GOLD

RAB DRILL LOG SHEET

HOLE ID: DFAC4 cont.

DATE:

PROJECT NAME:

GEOLOGIST:

LOCAL GRID NAME:

NORTHING:

EASTING: _____

PROJECT NO:

SAMPLER:

SURVEY METHOD: DGPS

AMGNORTH:

AMGEAST:

TENEMENT:**DRILL CO:****RL:**

AZIMUTH:

DIP:

PROSPECT: Tin hut

RIG MODEL:

SAMPLE NO'S:

TOTAL DEPTH: 47

CAPPED:

[illegible]

**AURORA
GOLD**

RAB DRILL LOG SHEET

HOLE ID: **BEAC 6**
DATE: **9/2/99**

PROJECT NAME:	GEOLOGIST:	LOCAL GRID NAME:	NORTHING:	EASTING:
PROJECT NO:	SAMPLER:	SURVEY METHOD: UGPS	AMGNORTH: 6278100	AMGEAST: 569400
TENEMENT:	DRILL CO:	RL:	AZIMUTH:	DIP: -90
PROSPECT: Tinhut	RIG MODEL:	SAMPLE NO'S: 685404 - 685411	TOTAL DEPTH: 49	CAPPED: no

DEPTH		ROCK TYPE					ALTERATION				MINERALISATION					VEINING			COMMENTS	
FROM	TO	LITH CODE	COMP	TEXT	WTH	CLR	FROM	TO	TYPE	(W,M,S)	FROM	TO	TYPE	FORM	%	TYPE	FROM	TO		%
0	1	SSO			aw	rb														Transported sand
1	4	CLY			aw	br														stiff red brown clay
4	10	SSO			aw	br														Transported sand
10	17	GRI	S:		aw	wh														Alghuchua Formation ss
17	30	CLY	cy		aw	no														Says rock - white - orange - pale yellow Alghuchua ss. This is the same
30	36	CLY	cy		aw	br														Alghuchua Fm. - clay
36	38	SAP	cy		SW	gy														
38	40	GRA	S:		SW	gy														bleached pale grey silicated
48	49	GRA	S:		SW	gy	48	49	SI	n	48	49	PY	dis	1					? g. minute. Minor strongly pyritic chips, abundant pale grey clay

Duplicate 685478

AURORA
GOLD

RAB DRILL LOG SHEET

HOLE ID: BEAC 7
DATE: 3/2/99

PROJECT NAME:	GEOLOGIST:	LOCAL GRID NAME:	NORTHING:	EASTING:
PROJECT NO:	SAMPLER:	SURVEY METHOD: DGPS	AMGNORTH: 6378100	AMGEAST: 569350
TENEMENT:	DRILL CO:	RL:	AZIMUTH:	DIP: ~90
PROSPECT: Tinhut	RIG MODEL:	SAMPLE NO'S: 685112 - 685119	TOTAL DEPTH: 48	CAPPED: m

[illegible]

RAB DRILL LOG SHEET

HOLE ID:

BEAC S

DATE: 3/2/79

PROJECT NAME:

GEOLOGIST:

LOCAL GRID NAME:

NORTHING:

EASTING:

PROJECT NO:

SAMPLER:

SURVEY METHOD: DIPS

AMGNORTH: 6278100

AMGEAST: 569300

TENEMENT:

DRILL CO:

RL:

AZIMUTH:

DIP: 290

PROSPECT: Tin hut

RIG MODEL:

SAMPLE NO'S: 68520- 685127

TOTAL DEPTH: 47

CAPPED: 170

[illegible]

**AURORA
GOLD**

RAB DRILL LOG SHEET

HOLE ID: REAC 10

DATE: 4/2/99

PROJECT NAME:	GEOLOGIST:	LOCAL GRID NAME:	NORTHING:	EASTING:
PROJECT NO:	SAMPLER:	SURVEY METHOD: <u>DPS</u>	AMGNORTH: <u>6378100</u>	AMGEAST: <u>589200</u>
TENEMENT:	DRILL CO:	RL:	AZIMUTH:	DIP: <u>200</u>
PROSPECT: <u>Trahwt</u>	RIG MODEL:	SAMPLE NO'S: <u>G85133 - G85141</u>	TOTAL DEPTH: <u>54</u>	CAPPED: <u>ml</u>

DEPTH		ROCK TYPE					ALTERATION				MINERALISATION					VEINING			COMMENTS	
FROM	TO	LITH CODE	COMP	TEXT	WTH	CLR	FROM	TO	TYPE	[W,M,S]	FROM	TO	TYPE	FORM	%	TYPE	FROM	TO		%
0	7	SSO			W	W														Transmitted sand
7	24.9	GRJ	S		W	W														Alghandana Fm
24.9	26	SAP	gy		W	h														Saprolite - pale brown ch
26	37	SAP	gy		W	gh														Saprolite - carbonaceous olive green clay, pyrite possible to oxidize
37	41	SAP	gy		SW	27														Pale grey clay, minor silica pyrite ch. 25
41	51	PHY	S		W	gy	41	51	Si	W	41	51	Py	dis	8					carbonaceous Pale grey silica with abundant carbonaceous massive pyrite, weak silica, strong carbonate alteration
51	54	PHY	S		W	gy	51	54	Si	m	51		Py	dis	3					moderately silicified, pale grey carbonated? siltstone with disseminated pyrite 0.1 to 1mm, moderate silicification (pale green). Disseminated 1-2g (0.2mm) 1mm pyrite
SAMPLE RECOVERY							WATER		EVENTS		COMMENTS									
FROM			TO		%		FROM		TO		BOTC:		Sample 18-48 with samples from 51g-54g Ainol. horizon from 51g-54g							
											BOCO:									
											TOFR:									

**AURORA
GOLD**

RAB DRILL LOG SHEET

HOLE ID: BEAC 11

DATE: 4/2/94

PROJECT NAME: _____ GEOLOGIST: _____ LOCAL GRID NAME: _____ NORTHING: _____ EASTING: _____
 PROJECT NO: _____ SAMPLER: _____ SURVEY METHOD: DGPS AMGNORTH: 6378100 AMGEAST: 509100
 TENEMENT: _____ DRILL CO: _____ RL: _____ AZIMUTH: _____ DIP: _____
 PROSPECT: Tinhut RIG MODEL: _____ SAMPLE NO'S: 685063-685198 TOTAL DEPTH: 44 CAPPED: mp

DEPTH		ROCK TYPE					ALTERATION				MINERALISATION					VEINING				COMMENTS
FROM	TO	LITH CODE	COMP	TEXT	WTH	CLR	FROM	TO	TYPE	[W,M,S]	FROM	TO	TYPE	FORM	%	TYPE	FROM	TO	%	
0	2	SSO			aw	rb														Transported sand
2	4	CLY			aw	br														Soft clay after core.
4	8	SSO			aw	or														Transported sand
8	22	GRI	si		aw	wh														Algal breccia Fm.
22	27	GRV			aw	br														Gravels, limonite
27	29	SAP	cy		aw	br														Saprolite clays
29	31	SAP	cy		aw	gy														Saprolite clay
																QTz	31	32	2	
31	40	SAP	cy		sw	bk														Saprolite with large pyrite nodules
																QTz	40	41	2	
40	43	SIS	cy		pw	bk														Black shale, quartz veins with pyrite.
43	44	GRA	si		aw	gy	43	44	SI	m	43	44	py	dis	1					Coarse grey silica & silicified granite with pyrite nodules
																				fractures or as minor disseminations in less silicified granite.

HOLE ID: BFAC 15
DATE: 5/2/99

EASTING:

AMGEAST: 853100

DIP:

CAPPED: *MA*

[illegible]

APPENDIX II

DRILL SAMPLE GEOCHEMICAL RESULTS

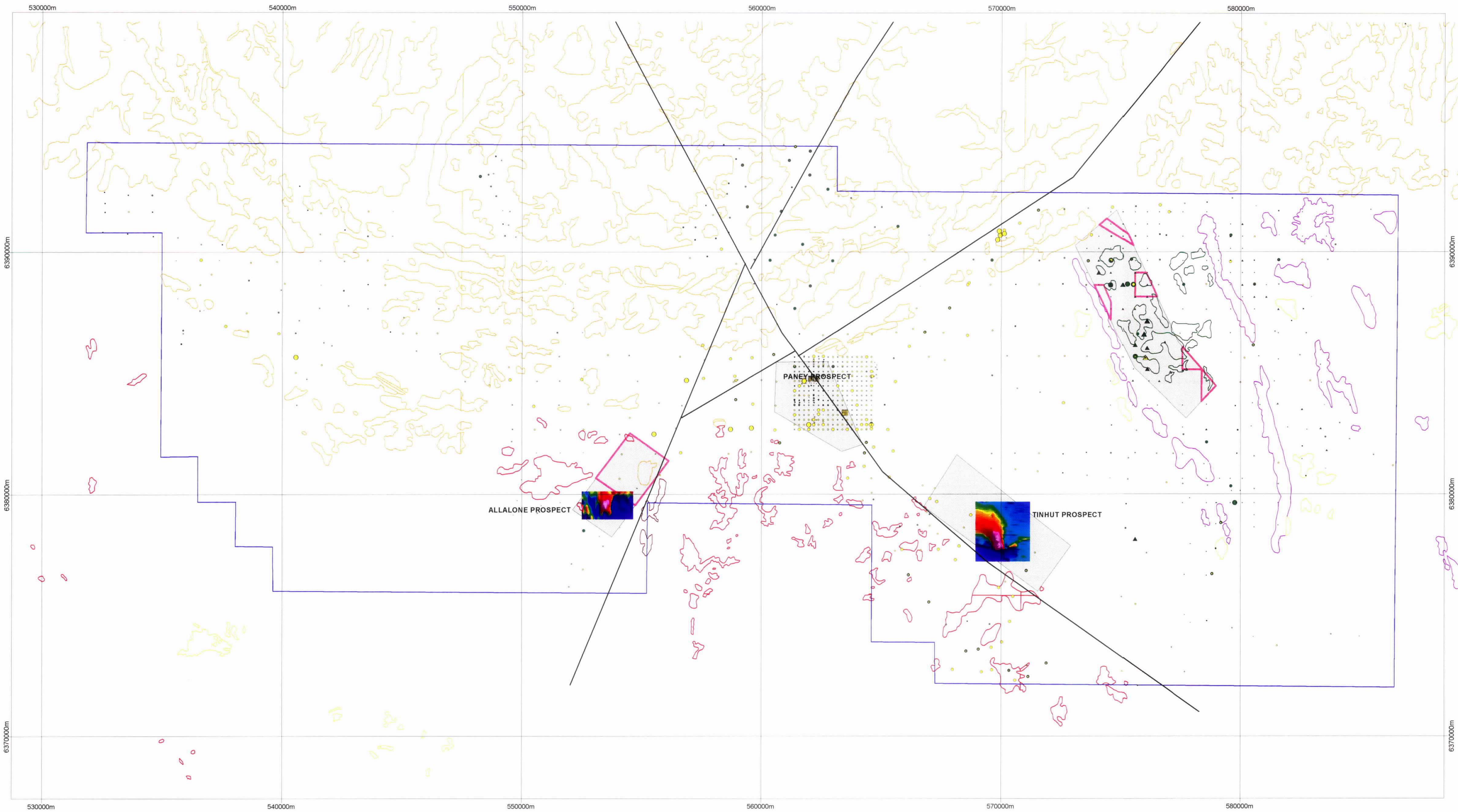
Dataset	Hole_id	Depth_From	Depth_To	Samp_id	Auppb	Au1ppb	Agppm	Asppm	Cuppm	Pbppm	Znppm	lab	batch_no	CoOrderNo
BKE	BEAC001	0	6	G85062	2		-0.1	15	14	12	21	GENALYSIS	445.0/990545	5426
BKE	BEAC001	6	12	G85063	-1		0	15	11	9	11	GENALYSIS	445.0/990545	5426
BKE	BEAC001	12	18	G85064	-1		-0.1	5	14	12	5	GENALYSIS	445.0/990545	5426
BKE	BEAC001	18	24	G85065	1		-0.1	-5	11	15	9	GENALYSIS	445.0/990545	5426
BKE	BEAC001	24	32	G85066	4	5	-0.1	5	24	240	20	GENALYSIS	445.0/990545	5426
BKE	BEAC001	32	38	G85067	-1		0	15	28	140	64	GENALYSIS	445.0/990545	5426
BKE	BEAC001	38	44	G85068	2		-0.1	15	28	31	84	GENALYSIS	445.0/990545	5426
BKE	BEAC001	44	50	G85069	1		0	10	19	27	102	GENALYSIS	445.0/990545	5426
BKE	BEAC001	50	51	G85070	-1		-0.1	-5	16	33	110	GENALYSIS	445.0/990545	5426
BKE	BEAC002	0	6	G85071	1		-0.1	10	17	13	20	GENALYSIS	445.0/990545	5426
BKE	BEAC002	6	12	G85072	1		-0.1	10	14	9	9	GENALYSIS	445.0/990545	5426
BKE	BEAC002	12	18	G85073	1		-0.1	10	9	14	10	GENALYSIS	445.0/990545	5426
BKE	BEAC002	18	24	G85074	1		-0.1	-5	6	25	5	GENALYSIS	445.0/990545	5426
BKE	BEAC002	24	34	G85075	1		-0.1	5	9	480	14	GENALYSIS	445.0/990545	5426
BKE	BEAC002	34	40	G85076	2		0	5	39	640	15	GENALYSIS	445.0/990545	5426
BKE	BEAC002	40	46	G85077	2		0	-5	56	820	400	GENALYSIS	445.0/990545	5426
BKE	BEAC002	46	52	G85078	1		0	-5	66	114	360	GENALYSIS	445.0/990545	5426
BKE	BEAC002	52	58	G85079	1		0	5	54	84	330	GENALYSIS	445.0/990545	5426
BKE	BEAC002	58	64	G85080	4	4	4	25	108	540	1600	GENALYSIS	445.0/990545	5426
BKE	BEAC002	64	70	G85081	3		0	30	21	150	560	GENALYSIS	445.0/990545	5426
BKE	BEAC003	0	6	G85082	1		0	10	13	15	41	GENALYSIS	445.0/990545	5426
BKE	BEAC003	6	12	G85083	-1		0	10	14	12	12	GENALYSIS	445.0/990545	5426
BKE	BEAC003	12	19	G85084	-1		0	-5	7	118	7	GENALYSIS	445.0/990545	5426
BKE	BEAC003	19	25	G85085	-1		-0.1	-5	12	290	13	GENALYSIS	445.0/990545	5426
BKE	BEAC003	25	31	G85086	1		-0.1	-5	10	410	13	GENALYSIS	445.0/990545	5426
BKE	BEAC003	31	37	G85087	1		1	-5	39	1140	1140	GENALYSIS	445.0/990545	5426
BKE	BEAC003	37	43	G85088	1		0	10	9	900	2550	GENALYSIS	445.0/990545	5426
BKE	BEAC003	43	45	G85089	-1		0	15	16	1180	2650	GENALYSIS	445.0/990545	5426
BKE	BEAC004	0	6	G85090	2		-0.1	10	17	78	140	GENALYSIS	445.0/990545	5426
BKE	BEAC004	6	12	G85091	-1		0	10	14	16	28	GENALYSIS	445.0/990545	5426
BKE	BEAC004	12	18	G85092	1		0	10	7	12	19	GENALYSIS	445.0/990545	5426
BKE	BEAC004	18	27	G85093	-1		1	10	12	36	12	GENALYSIS	445.0/990545	5426
BKE	BEAC004	27	33	G85094	3		5	5	94	1750	780	GENALYSIS	445.0/990545	5426
BKE	BEAC004	33	39	G85095	2		0	5	15	280	980	GENALYSIS	445.0/990545	5426
BKE	BEAC004	39	45	G85096	2		2	50	32	280	780	GENALYSIS	445.0/990545	5426
BKE	BEAC004	45	47	G85097	2		0	30	9	70	960	GENALYSIS	445.0/990545	5426

Dataset	Hole_id	Depth_From	Depth_To	Samp_id	Auppb	Au1ppb	Agppm	Asppm	Cuppm	Pbppm	Znppm	lab	batch_no	CoOrderNo
BKE	BEAC005	0	6	G85098	2		-0.1	-5	10	17	37	GENALYSIS	445.0/990545	5426
BKE	BEAC005	6	12	G85099	1		-0.1	10	9	11	18	GENALYSIS	445.0/990545	5426
BKE	BEAC005	12	18	G85100	1		-0.1	10	9	10	8	GENALYSIS	445.0/990545	5426
BKE	BEAC005	18	24	G85101	1		-0.1	10	8	36	6	GENALYSIS	445.0/990545	5426
BKE	BEAC005	24	32	G85102	1		-0.1	5	12	280	18	GENALYSIS	445.0/990545	5426
BKE	BEAC005	32	35	G85103	1		-0.1	5	17	195	17	GENALYSIS	445.0/990545	5426
BKE	BEAC006	0	6	G85104	1		0	15	14	20	15	GENALYSIS	445.0/990545	5426
BKE	BEAC006	6	17	G85105	1		-0.1	-5	12	24	8	GENALYSIS	445.0/990545	5426
BKE	BEAC006	17	23	G85106	1		-0.1	5	8	160	8	GENALYSIS	445.0/990545	5426
BKE	BEAC006	23	29	G85107	-1		-0.1	-5	10	185	17	GENALYSIS	445.0/990545	5426
BKE	BEAC006	29	36	G85108	6	5	0	5	26	245	31	GENALYSIS	445.0/990545	5426
BKE	BEAC006	36	42	G85109	1		0	15	33	155	540	GENALYSIS	445.0/990545	5426
BKE	BEAC006	42	48	G85110	1		-0.1	10	24	68	560	GENALYSIS	445.0/990545	5426
BKE	BEAC006	48	49	G85111	2		0	10	15	200	820	GENALYSIS	445.0/990545	5426
BKE	BEAC007	0	6	G85112	3		-0.1	15	16	24	92	GENALYSIS	445.0/990545	5426
BKE	BEAC007	6	12	G85113	2		-0.1	10	14	10	19	GENALYSIS	445.0/990545	5426
BKE	BEAC007	12	18	G85114	2		-0.1	10	11	29	12	GENALYSIS	445.0/990545	5426
BKE	BEAC007	18	24	G85115	2		-0.1	10	8	160	16	GENALYSIS	445.0/990545	5426
BKE	BEAC007	24	30	G85116	2		-0.1	-5	10	116	16	GENALYSIS	445.0/990545	5426
BKE	BEAC007	30	36	G85117	2		0	20	35	440	350	GENALYSIS	445.0/990545	5426
BKE	BEAC007	36	42	G85118	1		0	5	8	18	160	GENALYSIS	445.0/990545	5426
BKE	BEAC007	42	48	G85119	2		0	10	11	45	125	GENALYSIS	445.0/990545	5426
BKE	BEAC008	0	6	G85120	2		-0.1	-5	18	11	23	GENALYSIS	445.0/990545	5426
BKE	BEAC008	6	12	G85121	2		-0.1	5	12	9	11	GENALYSIS	445.0/990545	5426
BKE	BEAC008	12	18	G85122	2		-0.1	-5	9	11	8	GENALYSIS	445.0/990545	5426
BKE	BEAC008	18	24	G85123	2		-0.1	-5	10	310	9	GENALYSIS	445.0/990545	5426
BKE	BEAC008	24	30	G85124	2		-0.1	-5	13	140	14	GENALYSIS	445.0/990545	5426
BKE	BEAC008	30	36	G85125	4	3	0	-5	56	780	145	GENALYSIS	445.0/990545	5426
BKE	BEAC008	36	42	G85126	1		0	10	26	70	520	GENALYSIS	445.0/990545	5426
BKE	BEAC008	42	47	G85127	1		-0.1	-5	23	116	380	GENALYSIS	445.0/990545	5426
BKE	BEAC009	0	6	G85128	1		-0.1	5	10	18	42	GENALYSIS	445.0/990545	5426
BKE	BEAC009	6	12	G85129	1		0	5	16	9	10	GENALYSIS	445.0/990545	5426
BKE	BEAC009	12	22	G85130	1		-0.1	10	11	12	6	GENALYSIS	445.0/990545	5426
BKE	BEAC009	22	28	G85131	-1		0	-5	22	56	17	GENALYSIS	445.0/990545	5426
BKE	BEAC009	28	30.5	G85132	2		0	20	19	680	3100	GENALYSIS	445.0/990545	5426
BKE	BEAC010	0	6	G85133	2		-0.1	-5	14	22	165	GENALYSIS	445.0/990545	5426

Dataset	Hole_id	Depth_From	Depth_To	Samp_id	Auppb	Au1ppb	Agppm	Asppm	Cuppm	Pbppm	Znppm	lab	batch_no	CoOrderNo
BKE	BEAC010	6	12	G85134	1		-0.1	10	11	13	54	GENALYSIS	445.0/990545	5426
BKE	BEAC010	12	18	G85135	1		-0.1	-5	7	10	18	GENALYSIS	445.0/990545	5426
BKE	BEAC010	18	25	G85136	1		-0.1	5	12	18	11	GENALYSIS	445.0/990545	5426
BKE	BEAC010	25	31	G85137	4		3	5	135	1180	80	GENALYSIS	445.0/990545	5426
BKE	BEAC010	31	37	G85138	1		1	-5	78	1180	2100	GENALYSIS	445.0/990545	5426
BKE	BEAC010	37	43	G85139	13	13	17	10	2300	2210	2520	GENALYSIS	445.0/990545	5426
BKE	BEAC010	43	49	G85140	12	11	18	35	1450	3050	6500	GENALYSIS	445.0/990545	5426
BKE	BEAC010	49	54	G85141	4	5	9	10	260	1900	7400	GENALYSIS	445.0/990545	5426
BKE	BEAC011	0	6	G85142	3		0	10	48	130	230	GENALYSIS	445.0/990545	5426
BKE	BEAC011	6	12	G85143	1		-0.1	-5	16	18	17	GENALYSIS	445.0/990545	5426
BKE	BEAC011	12	18	G85144	1		-0.1	-5	12	21	27	GENALYSIS	445.0/990545	5426
BKE	BEAC011	18	27	G85145	1		-0.1	-5	15	20	13	GENALYSIS	445.0/990545	5426
BKE	BEAC011	27	33	G85146	4	4	1	5	47	480	82	GENALYSIS	445.0/990545	5426
BKE	BEAC011	33	39	G85147	2		1	10	82	540	220	GENALYSIS	445.0/990545	5426
BKE	BEAC011	39	44	G85148	1		3	10	215	1850	2450	GENALYSIS	445.0/990545	5426
BKE	BEAC012	0	6	G85149	2		0	10	25	46	76	GENALYSIS	445.0/990545	5426
BKE	BEAC012	6	12	G85150	2		-0.1	5	21	19	24	GENALYSIS	445.0/990545	5426
BKE	BEAC012	12	18	G85151	1		-0.1	-5	12	13	13	GENALYSIS	445.0/990545	5426
BKE	BEAC012	18	23	G85152	2		-0.1	-5	9	27	16	GENALYSIS	445.0/990545	5426
BKE	BEAC012	23	29	G85153	2		0	-5	27	54	14	GENALYSIS	445.0/990545	5426
BKE	BEAC012	29	35	G85154	3		0	-5	16	245	24	GENALYSIS	445.0/990545	5426
BKE	BEAC012	35	41	G85155	2		0	15	29	165	86	GENALYSIS	445.0/990545	5426
BKE	BEAC013	0	6	G85156	3		-0.1	10	14	19	20	GENALYSIS	445.0/990545	5426
BKE	BEAC013	6	12	G85157	1		-0.1	-5	18	12	11	GENALYSIS	445.0/990545	5426
BKE	BEAC013	12	18	G85158	1		-0.1	-5	6	10	3	GENALYSIS	445.0/990545	5426
BKE	BEAC013	18	28	G85159	1		-0.1	-5	14	120	60	GENALYSIS	445.0/990545	5426
BKE	BEAC013	28	34	G85160	-1		0	-5	74	860	660	GENALYSIS	445.0/990545	5426
BKE	BEAC013	34	40	G85161	1		0	-5	38	540	580	GENALYSIS	445.0/990545	5426
BKE	BEAC013	40	43	G85162	1		0	5	28	205	350	GENALYSIS	445.0/990545	5426
BKE	BEAC014	0	6	G85163	1		-0.1	5	14	30	29	GENALYSIS	445.0/990545	5426
BKE	BEAC014	6	12	G85164	1		0	-5	14	21	11	GENALYSIS	445.0/990545	5426
BKE	BEAC014	12	18	G85165	1		-0.1	-5	13	12	8	GENALYSIS	445.0/990545	5426
BKE	BEAC014	18	24	G85166	2		-0.1	-5	17	27	36	GENALYSIS	445.0/990545	5426
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BKE	BER001	18	24	G85172	2		-0.1	5	20	6	12	GENALYSIS	445.0/990545	5426
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EL 2260 'Black Eagle' Outline

Aboriginal Exclusion Zones

Aboriginal Clearance Area for Prospect Exploration

Fault Zones

Gawler Range Volcanics

Corunna Conglomerate

Hiltaba Suite

Middleback Subgroup

Warrow Quartzite

Sleaford Complex

Calcrete Cu (ppm)

4 - 10

11 - 14

15 - 19

20 - 36

37 - 73

Calcrete Au (ppb)

0.02 - 0.65

0.65 - 1

1 - 1.5

1.5 - 2.4

2.4 - 5.5

Calcrete Copper Geochemistry (ppm) - Aurora Gold

3 - 9

10 - 14

15 - 24

25 - 41

42 - 147

Calcrete Gold Geochemistry (ppb) - Aurora Gold

0.1

0.1 - 1

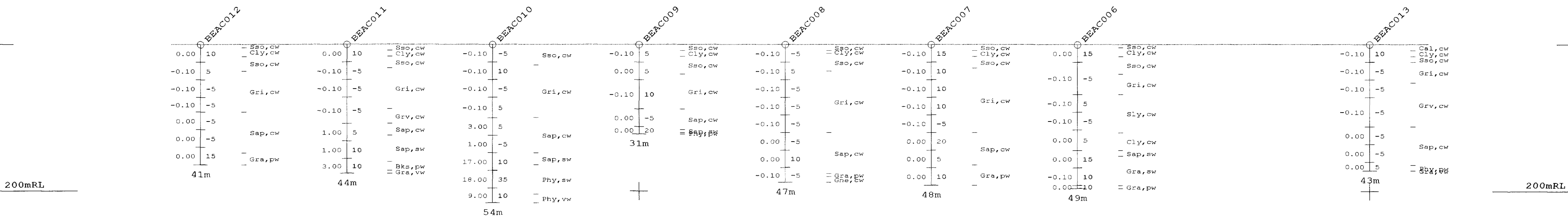
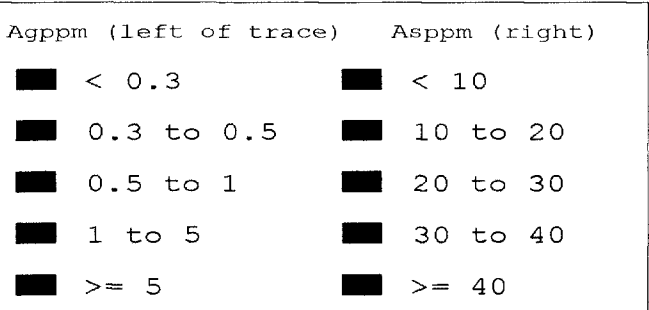
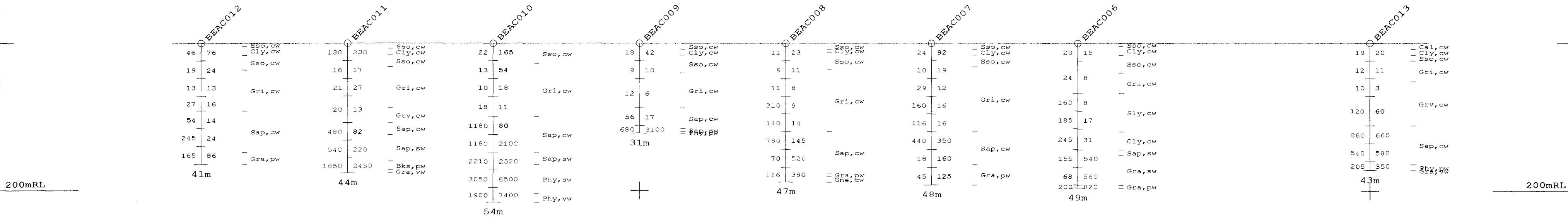
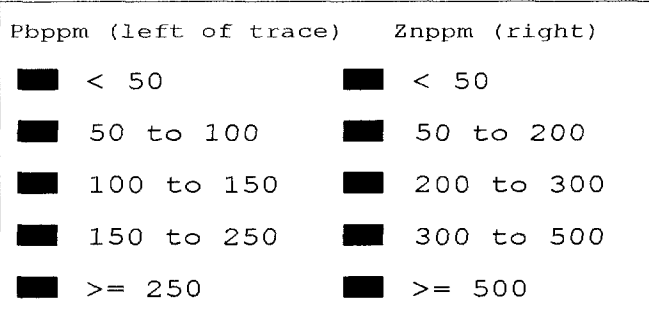
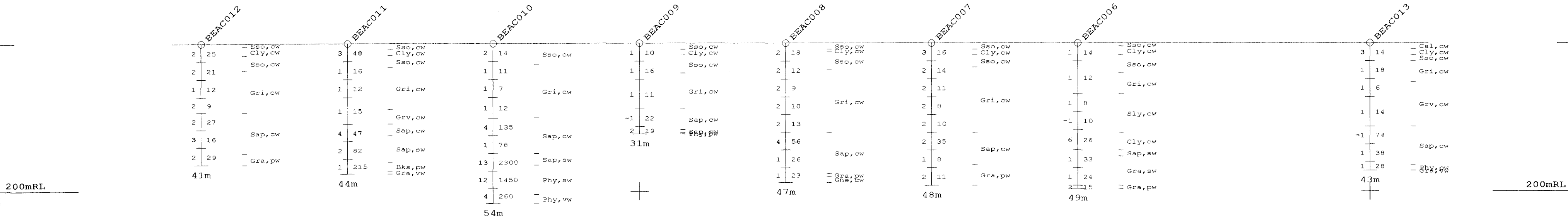
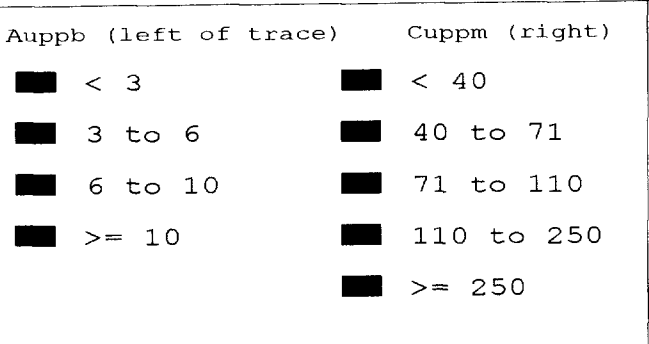
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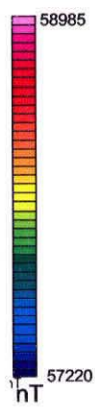
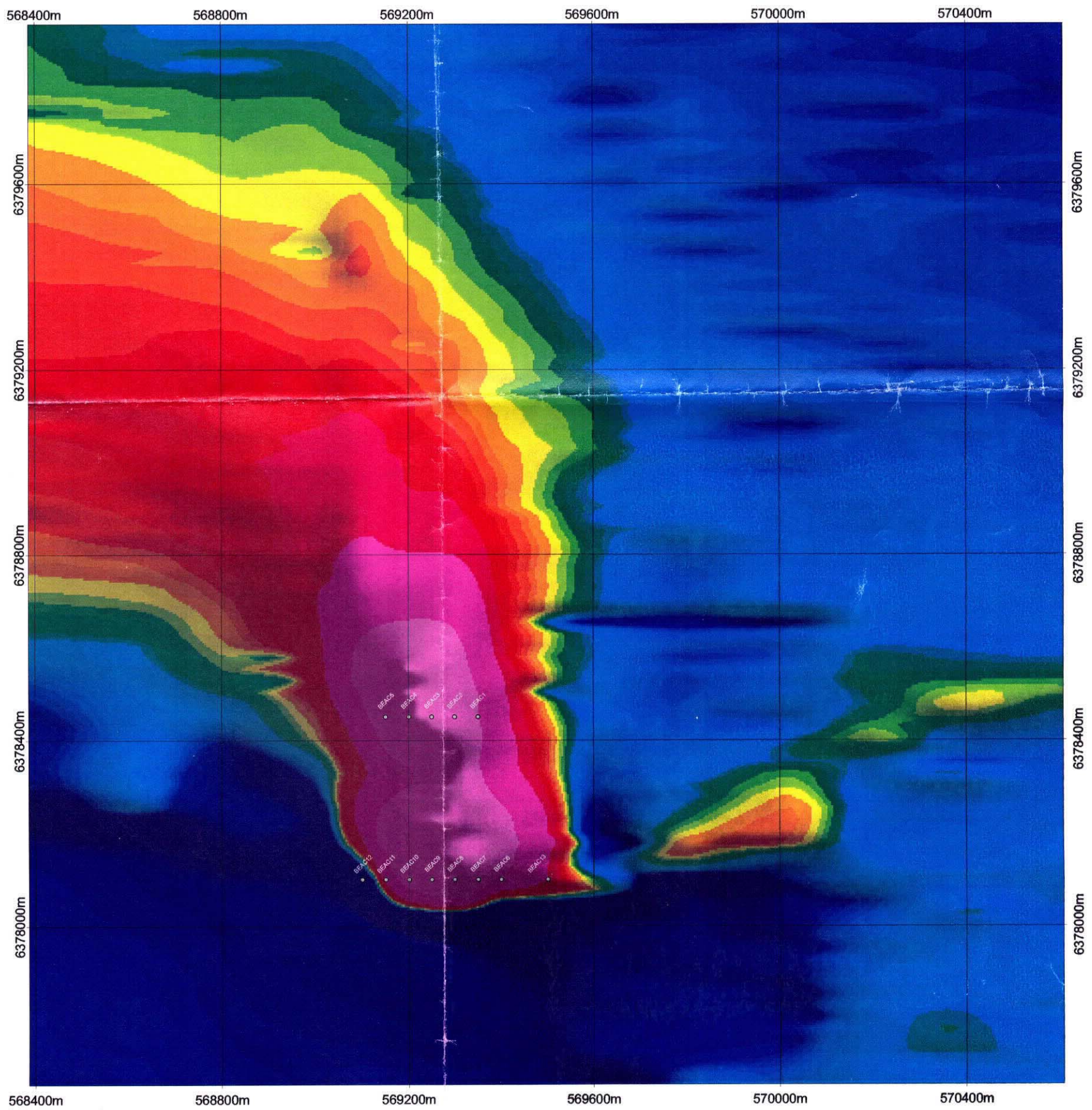
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AURORA GOLD LTD	
EL 2260 BLACK EAGLE OUTCROP GEOLOGY, PROSPECT LOCATIONS and CALCRETE Au-Cu GEOCHEMISTRY	
File: Black apr	Date: March 1999
Compiled: GT	Drawing: S532-042-01



9329-11



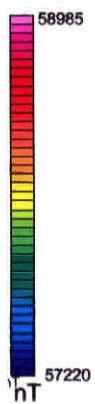
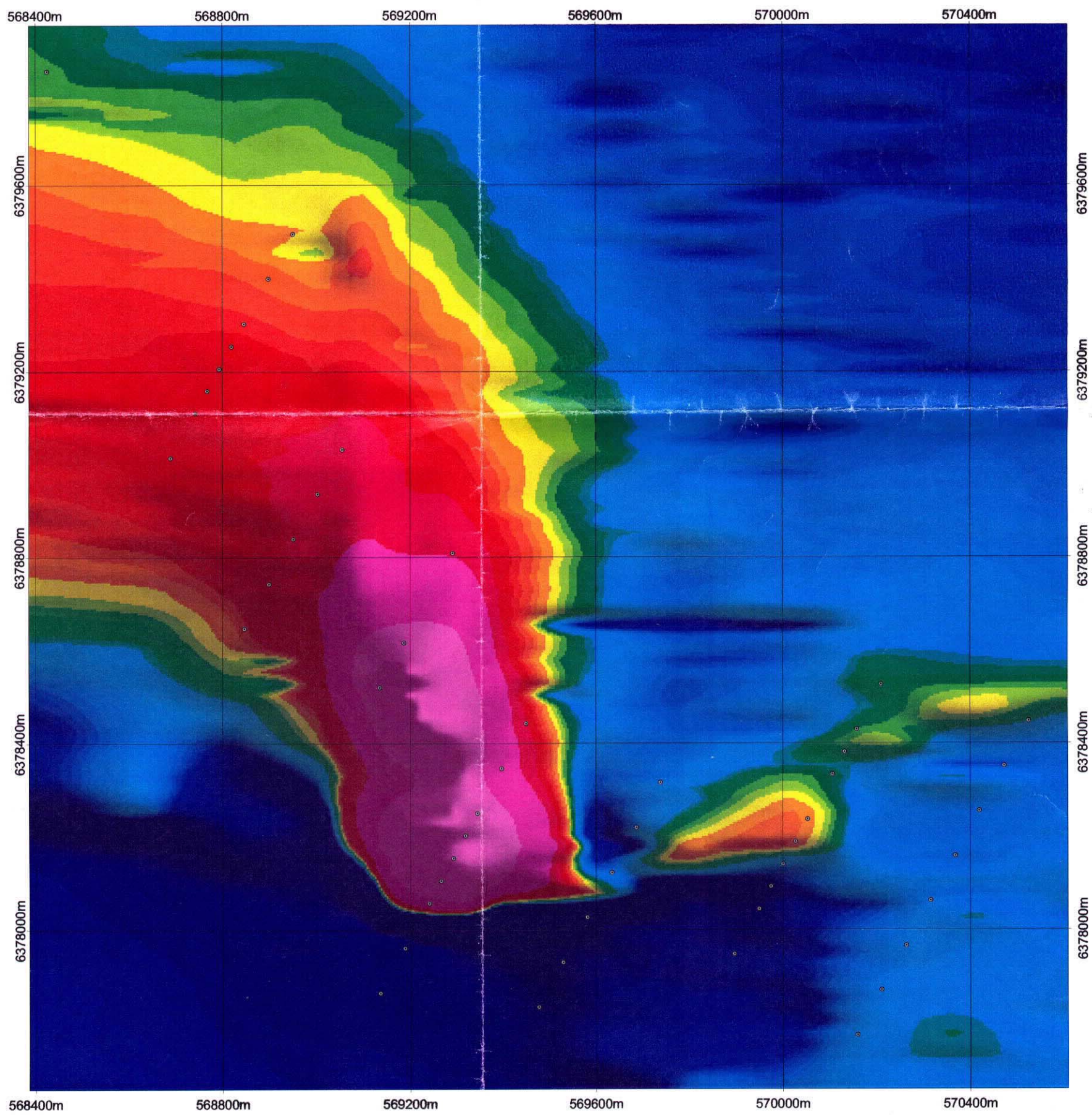
○ Aircore Holes

200 0 200 Meters
1:10000

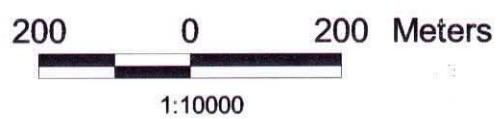
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**EL 2260 BLACK EAGLE
GROUND MAGNETICS and DRILL HOLE
LOCATIONS - TINHUT PROSPECT**

File: Black.apr	Date: January 1999
Compiled: GT	Drawing: S532-082-03



• Aberfoyle Aircore Holes



AURORA GOLD LTD
EL 2260 BLACK EAGLE
GROUND MAGNETICS
TINHUT PROSPECT

File: Black.apr	Date: January 1999
Compiled: GT	Drawing: S532-082-01

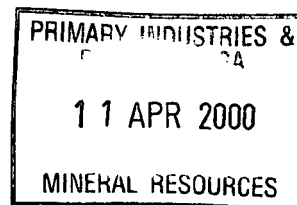
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EL 2260 BLACK EAGLE

3RD ANNUAL TECHNICAL REPORT FOR THE PERIOD 10 JANUARY 1999 TO 9 JANUARY 2000

H. S. R. FREEMAN
PROJECT GEOLOGIST

A. P. BELPERIO
CHIEF GEOLOGIST



30TH MARCH 2000

SUMMARY

- Minotaur Gold has completed three years of exploration on EL 2260 (Black Eagle), where it has been simultaneously exploring for Au and Pb-Zn-Ag mineralisation.
- Regional calcrete sampling over half of the tenement has detected a number of sites of Ag, Pb and Zn, as well as Au-As and Cu-As anomalism that require follow-up.
- Significant base metal and silver drillhole intercepts in Hutchison Group metasediments have been recorded at the Paney and Tin Hut prospects by Shell Minerals, Aberfoyle and Aurora Gold. These include 9m of 0.5% Zn, 1.8% Pb, 7 g/t Ag and 20-100 ppb Au at the Paney Prospect and 17m of 0.5%Zn, 0.2% Pb, 0.1% Cu and 15 g/t Ag at Tin Hut Prospect).
- A new aeromagnetic dataset provides for a more coherent bedrock and structural interpretation of the region. Follow-up work is recommended along the Gawler Range Volcanic southern margin, particularly where geochemical anomalism has been detected.

MAP REFERENCE:
1:250,000 MAP SHEET YARDEA SI 53
1:100,000 MAP SHEETS
CACUPPA 6032, MINNIPA 5932

DISTRIBUTION: MINOTAUR GOLD NL
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- Table 2:** Tandaie Dam area soils geochemistry

1.0 INTRODUCTION

Exploration Licence 2260 (Black Eagle) covering 942 km² of the southern Gawler Craton (**Fig 1**) was granted to Minotaur Gold NL on January 10th 1997, and renewed on an annual basis with an expenditure commitment of \$120,000 per annum. In its second year, the tenement was subject to a joint venture with Aurora Gold. This joint venture was dissolved and title returned unencumbered to Minotaur in April 1999 after drilling of two gold targets by Aurora.

The tenement area covers portions of the Paney and Buckleboo pastoral leases. Prominent hills of Gawler Range Volcanics occupy the northern part of the licence, with extensive partly cleared outwash plains masking Proterozoic metasediments and intrusives making up the majority of the licence area.

This report includes a mid-term review of the Pb-Zn potential of EL 2260. Previous geochemical work by Minotaur is covered by the 1st Annual Technical Report (Belperio, 1998). The work by Aurora is covered by the 2nd Annual Technical Report (Taylor 1999a) and the attached progress report for the period 10 January 1999 to 31 March 1999 (Taylor 1999b).

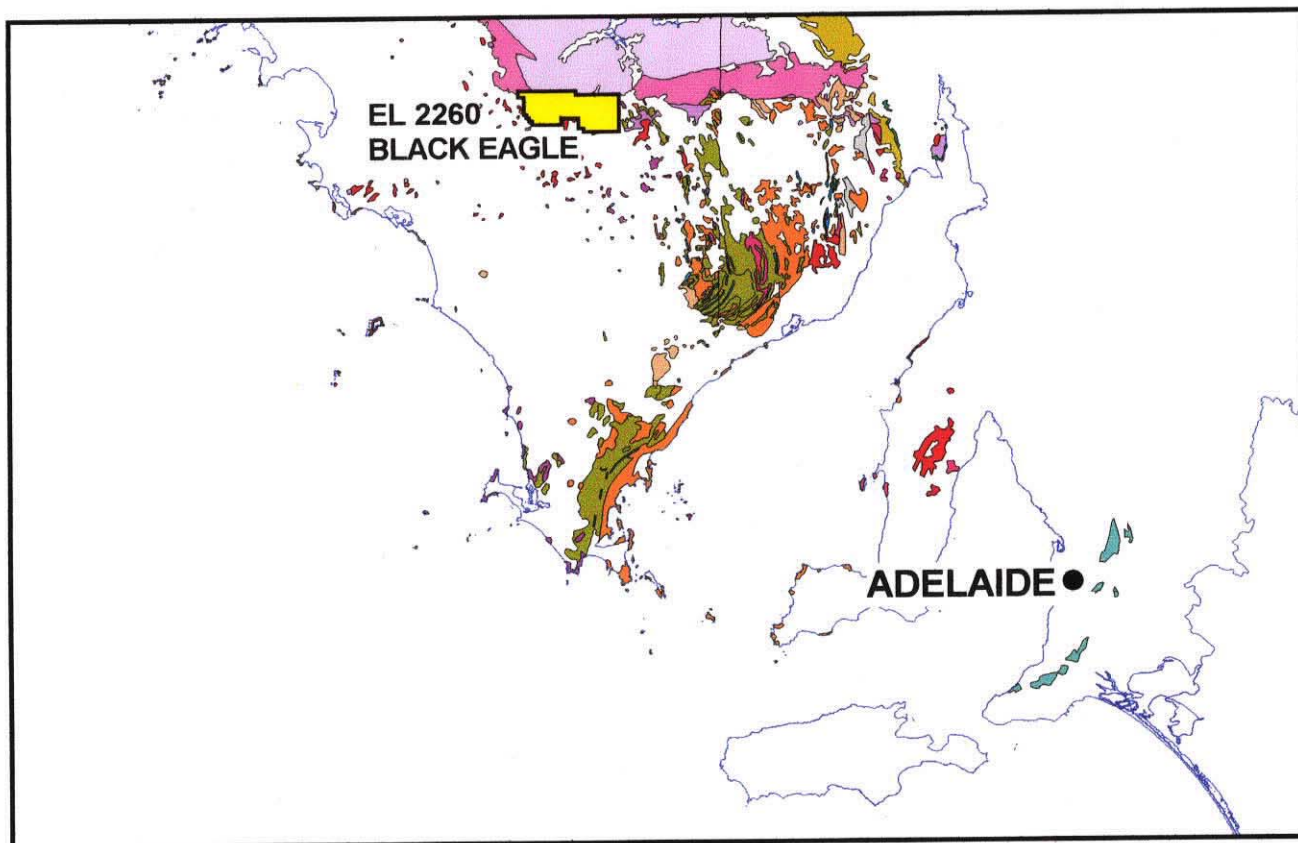


Figure 1. Location of EL 2260, Black Eagle.

2.0 GEOLOGICAL FRAMEWORK

The Gawler Craton, comprising crystalline basement of Archaean to Mesoproterozoic age, covers a large portion of western South Australia. On the southern Craton at Black Eagle, the basement rocks are dominated by Palaeoproterozoic metasediments (Hutchison Group) (Parker et al., 1993). Voluminous syn-tectonic intrusives (the Lincoln Complex granitoids), polyphase deformation and shearing accompanied a major orogenic event (the Kimban Orogeny) at c. 1850-1700 Ma. The younger (1585Ma) and metallogenically highly significant Gawler Range Volcanics and co-magmatic Hiltaba Suite Granites in part exploited these earlier fractures. The 1585Ma magmatic events were responsible for the giant Olympic Dam Cu-Au-U orebody and are thought to be critical to other mineralisation in the area including Menninnie Dam and Tunkillia. Recent U-Pb zircon dating (Daly et al., 1997) has revealed a younger tectonic event (1650-1540 Ma Kararan Orogeny) largely focussed along earlier major shear zones.

Exploration by Shell Minerals and Aberfoyle have confirmed mineralised Hutchison Group calcsilicates, BIFs and amphibolites within the Black Eagle tenement. Stratiform Pb-Zn mineralisation (Broken Hill style) in the Hutchison Group metasediments has been the principle model for past exploration in this region, although a re-interpretation of the genesis of Pb-Zn mineralisation at Menninnie Dam has refocussed exploration concepts in this region.

3.0 PB-ZN MINERALISATION MODELS

Two main styles of base metal mineralisation should be considered in forming a basis for Pb-Zn exploration within the licence:

- Stratiform and remobilised exhalative (SEDEX) base metal deposits, (Broken Hill style) associated with Hutchison Group schist, calcsilicate, dolomite, banded iron formation and concordant ortho-amphibolites.
- Epigenetic, low temperature, skarn-associated Pb-Zn-Ag mineralisation (Menninnie Dam style) considered to be contemporaneous with the Gawler Range Volcanics (GRV) - Hiltaba Suite emplacement at ~1590 Ma. Interaction of these rocks and hydrothermal fluids with Hutchison Group reactive metasediments (carbonates and BIF) and subsequent cooling of the associated igneous bodies led to the precipitation of Pb and Zn sulphides, in an interlayered diopside-calcite-talc-epidote calcsilicate host at Menninnie Dam (Daly *et al.*, 1998), 60 km east of the licence.

(Late stage Kimban / Kararan shearing in Hiltaba granite and related rocks may hold Pb-Zn mineralised components, however the available outcrop of Hiltaba granite in EL 2260 exhibits little or no deformation.)

4.0 PANEY PROSPECT

4.1 Previous Drilling

Paney Prospect lies immediately to the east of a fault bounded stock of Hiltaba Granite in the central-south of the licence. Previous drilling at Paney Prospect (Figure 2) by Aberfoyle / Billiton concentrated largely on discrete NW to NNW-trending Sirotem anomalies sub-parallel to magnetic

anomalies 500-1000nT above background. The 1000-1500 m long magnetic anomalies appear to be offset by N-S and NE-SW trending fault zones. These drillholes confirmed geochemically anomalous Hutchison Group stratigraphy. Diamond drillhole PP1 (Prairie Anomaly) intersected pyritic metasediments containing 4 discrete zones of Pb-Zn sulphide mineralisation close to the contact between the Hutchison Group and the southern margin of the GRV (e.g. 3m of 1.12% Pb, 1.29% Zn and 10ppm Ag). A 40m zone of graphitic schist coincides with the Sirotem model (Berg, 1986). Two kilometres south DDH PE 1 (Elephant Anomaly) intersected more sporadic Pb-Zn mineralisation of lower grade. One RAB hole (RAM 199), 200m south of DDH-PE1, intersected 6m at 0.1% Pb from 40m in Warrow Quartzite. No drillholes intersected sources for the magnetic anomalies.

Drilling by Aberfoyle also revealed a typical regolith profile of ~5m of calcareous soil and red-brown sandy/gritty clay overlying ~20-25m of partially silcreted and/or ferricreted clay, sand and gravel.

4.2 Soil and Calcrete Geochemistry

Statistical analysis of more than 800 regional calcrete samples on the licence (Belperio, 1998) reveals threshold values for anomalism as follows:

<u>Element</u>	<u>Anomalous value</u>	<u>Detection Limit</u>
Zn	24 ppm	1ppm
Pb	12 ppm	3ppm
Ag	21 ppb	1ppb

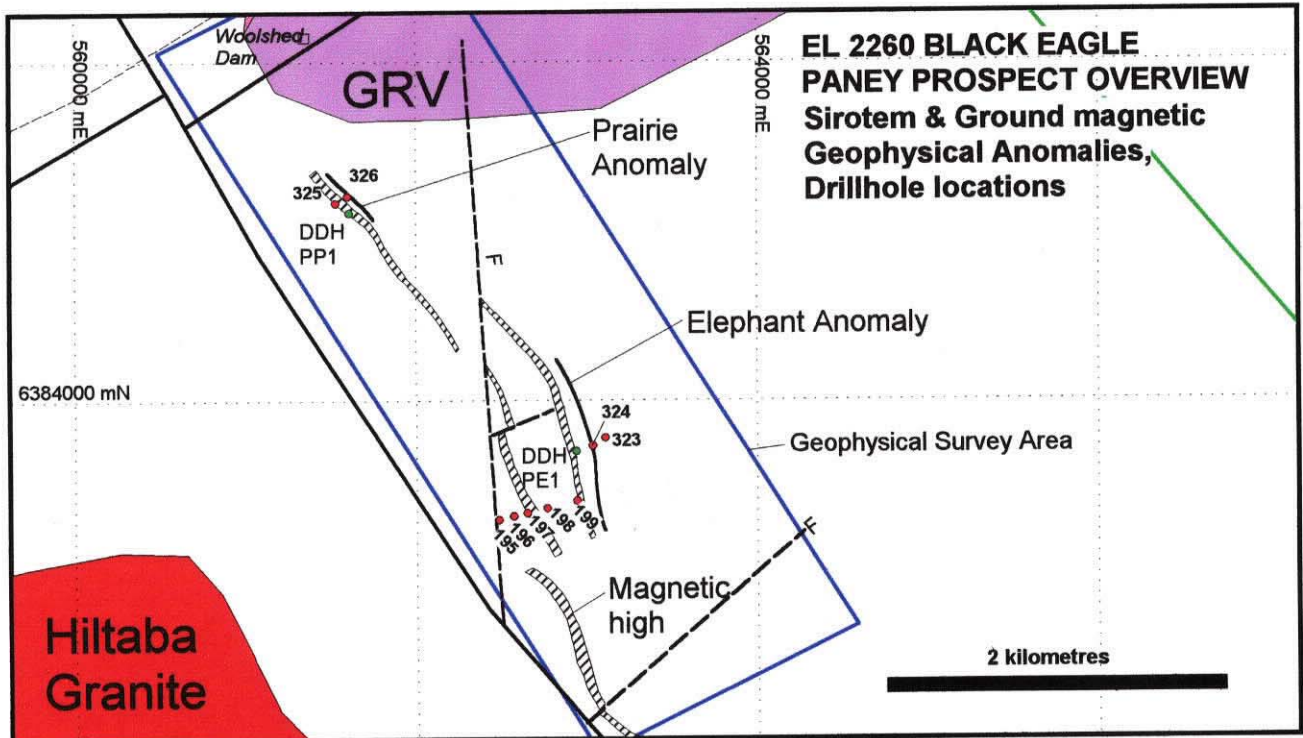


Figure 2 Paney Prospect.

A calcrete geochemical survey on a 200m grid at Paney Prospect (Figure 3) revealed several areas of coherent and coincident low order results for Zn and Pb. Half a kilometre north of the Prairie Anomaly and along the GRV - metasediment contact a 500m × 1000m anomaly peaks at 43 ppm Zn and 28 ppb Pb. Immediately south of the Prairie Grid a broad anomaly extends south and then to the western side of the major NW fault and covers an area of approximately 800m² (57ppm Zn, 18ppm Pb). Close spaced sampling covering the mineralised zones in PE 1 and PP 1 gave a sporadic but anomalous response for these elements (max. 41ppm Zn, 18ppm Pb).

Two MMI soil grids have been undertaken over the Prairie and Elephant drillhole sites. At Prairie Zn-Pb anomalism occurs in the NW, SE and central regions of the grid. Minor anomalism was delineated in the NW of the Elephant Grid.

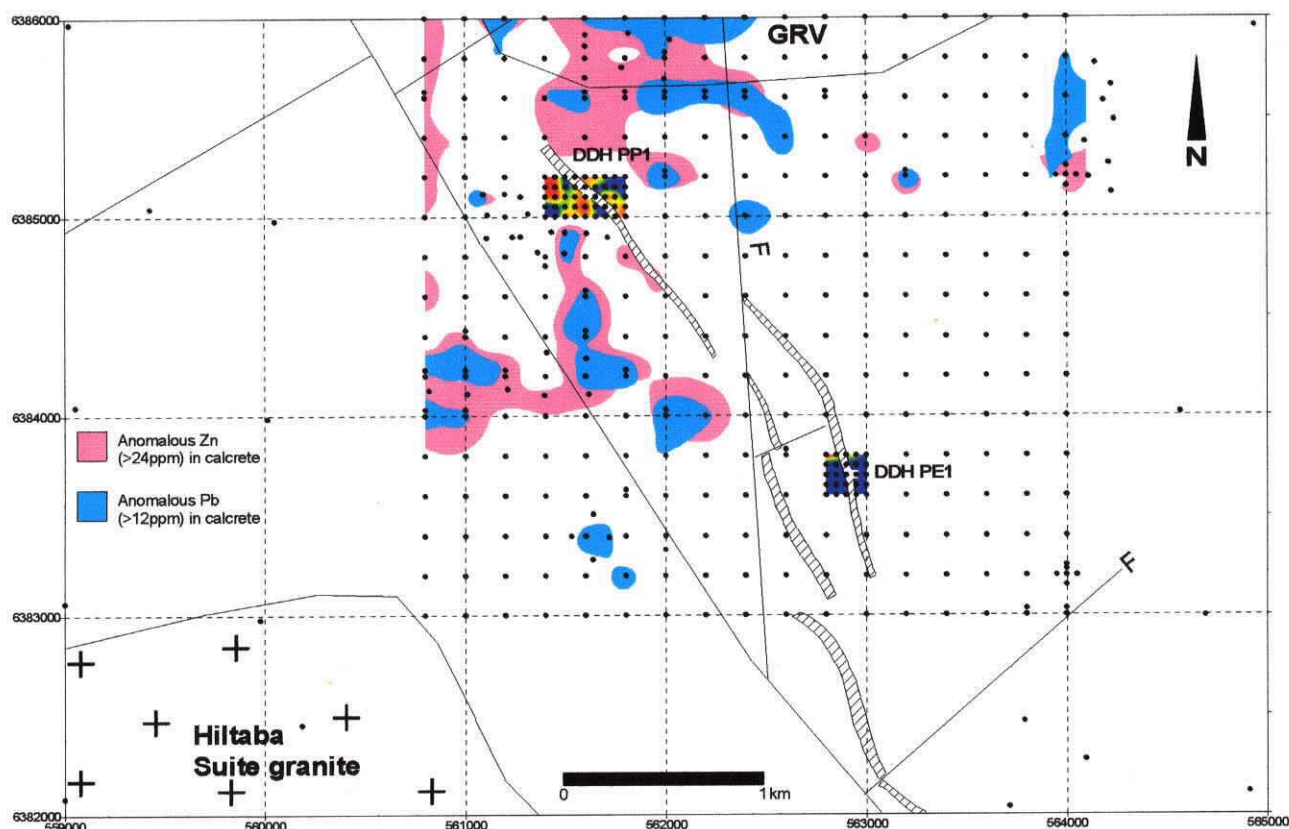


Figure 3 Paney Prospect Zn and Pb calcrete geochemical anomalies and MMI soil sampling grids at Prairie and Elephant anomalies.

5.0 TIN HUT PROSPECT

Approximately 8 kilometres SE of Paney Prospect, Tin Hut Prospect borders the same fault bounded stock of Hiltaba Suite granite. A ground magnetic survey over a regional magnetic bullseye revealed a twin peaked anomaly of ~500m strike length trending NNW, and 1400-1600 nT above background (Taylor, 1999). The sharp southern margin of the anomaly is attributed to an ENE trending GRV dyke or fault zone and a NNW fault controls the western margin. Ground magnetic data modelling indicated units dipping 50°-60°N.

A fixed loop EM survey undertaken by Aberfoyle in April 1992 delineated two possible bedrock conductors N and NW of the magnetic bullseye. Overburden complexities caused problems in the accurate modelling of a southern conductor (300-500m strike length) and northern conductor

(~900m strike length) - **Figure 4**. The southern conductor was considered more prospective than its northern counterpart due to its coincidence with anomalous geochemistry (Coutts, 1992). A trial soil geochemical survey on two traverses revealed no apparent anomalism over bedrock Pb-Zn-(Cu) anomalies and limited calcrete sampling (~10 samples) also returned no anomalous results, probably due to a 15-25m thick blanket of Algebuckina Formation (Taylor, 1999). Orientation sampling by Minotaur along the Aurora drill traverse confirmed the complete blanketing of base metal response in calcrete samples but revealed a weak Pb/Zn/Ag response using MMI (**Figure 5** and **Table 1**).

5.1 Previous Drilling

Early aircore and RAB drilling by Aberfoyle outlined >500m thickness of amphibolite facies metasediments, considered stratigraphic equivalents of the Hutchison Group Katunga dolomite and Cook Gap schist (Coutts, 1992). Furthermore, this drilling delineated an extensive 1.8 km × 250 m bedrock anomalous zone of Pb >0.1%, Zn >0.1% and Cu >500ppm (**Figure 4**), generally coincident with the magnetic high.

Five RC holes were completed in October-November 1993 to test the southern EM anomaly and the anomalous bedrock zone. These targets were thought to coincide with a NE to N dipping antiformal axial plane. Narrow zones of Pb-Zn mineralisation were intersected; best 2m @ 2.6% Pb+Zn. Taylor (1999) suggested that the area of low magnetic response and the two EM anomalies represented the distal portion of an epigenetic system.

Aircore drilling by Aurora Gold in 1999 again confirmed the anomalous Pb-Zn-Ag geochemistry, with best results of 45.4 g/t Ag, 1.5% Zn, 0.29% Pb and 0.1% Cu coming from a grey, silica altered metasediment. It should be noted that most aircore drillholes that returned samples >0.1% for Pb and/or Zn contained low level anomalism for Pb (up to 130 ppm) and Zn (up to 230 ppm) in the top 6 metre composite sample. This suggests that regolith sampling, incorporating shallow auger holes may be a useful exploration tool, used in defining zones of underlying anomalous bedrock.

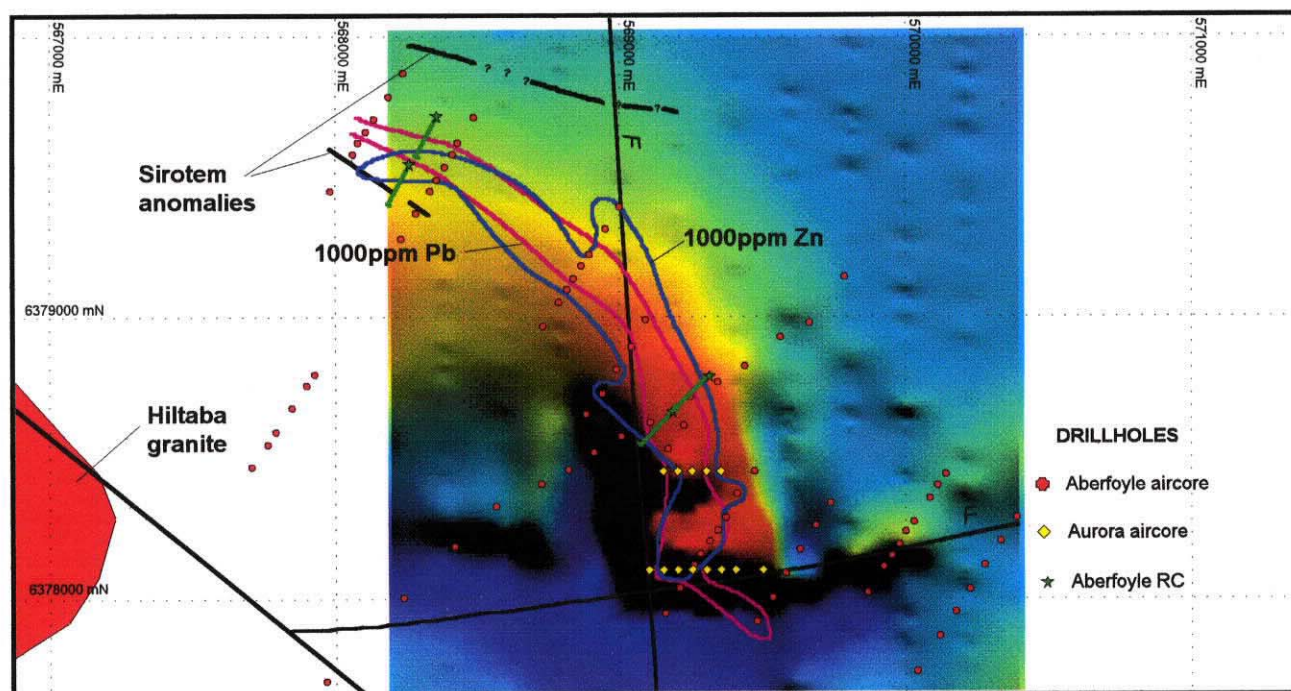


Figure 4 Tinhut Prospect: Ground magnetic image showing fault-bounded magnetic anomaly, Sirotem anomalies, previous drillholes and zones of anomalous bedrock Pb-Zn.

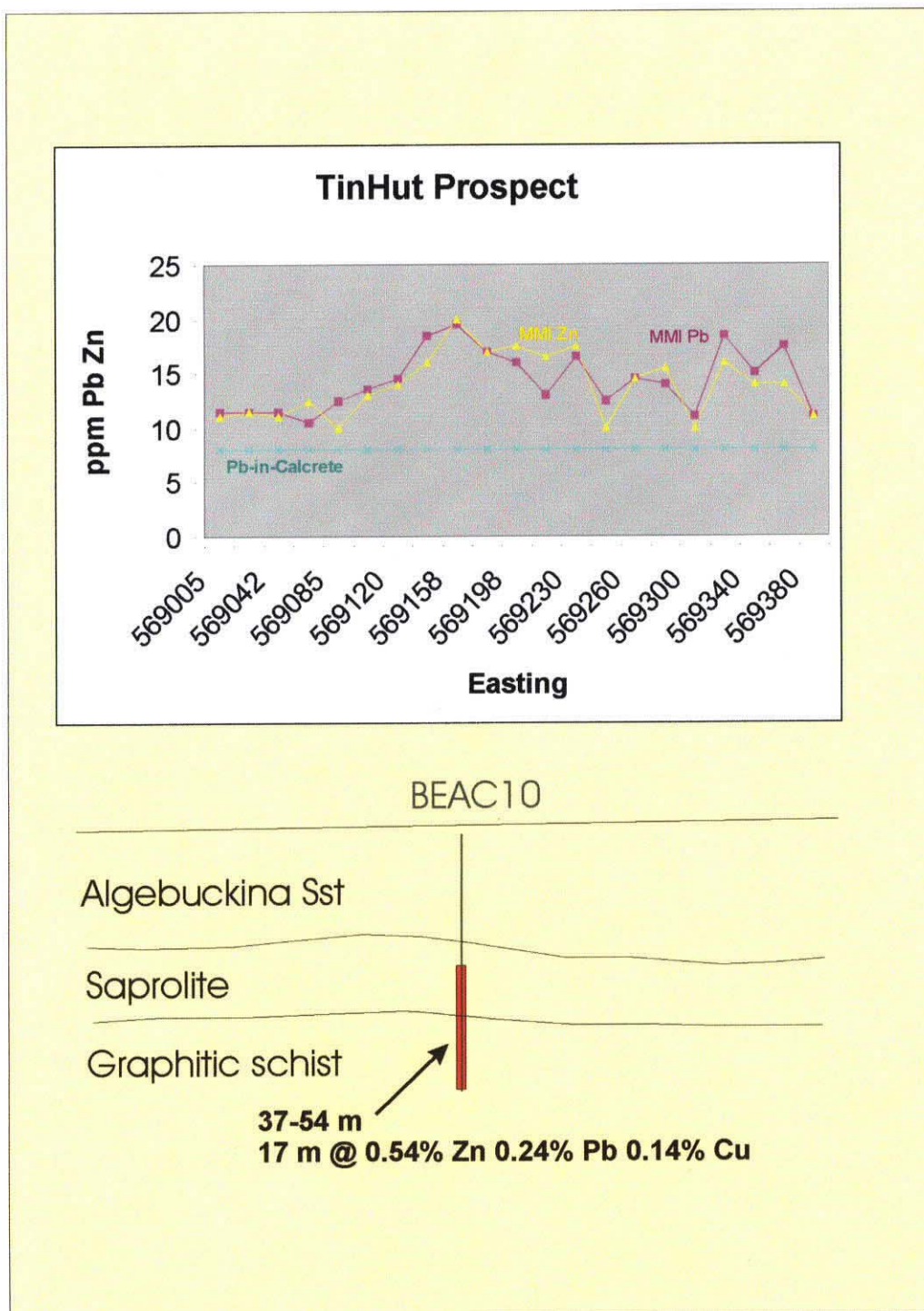


Figure 5: Tinhut Prospect: Soil orientation geochemistry over drillhole BEAC10

5.2 Discussion

Previous workers (e.g. Coutts, 1992) supported a stratiform model for the Tin Hut mineralisation on the basis of;

- (i) Anomalous sulphide accumulations within meta-sedimentary units interpreted to have chemical / exhalative protoliths.
- (ii) Pb isotope determinations on primary sulphides.

(iii) Strike parallel bedrock conductors associated with the geochemically anomalous bedrock zone.

Association of the mineralisation with the magnetic anomaly, which from detailed ground magnetic data appears to be controlled by NNW and ENE structures, is more suggestive of an epigenetic origin. Similar controlling structures, the prevalence of ~1590 Ma GRV-Hiltaba related lithologies (and graphitic schists as the source of EM anomalies) at both Paney and Tin Hut Prospects provide further evidence of similarities to the epigenetic skarn-related Menninnie Dam Pb-Zn-Ag mineralisation.

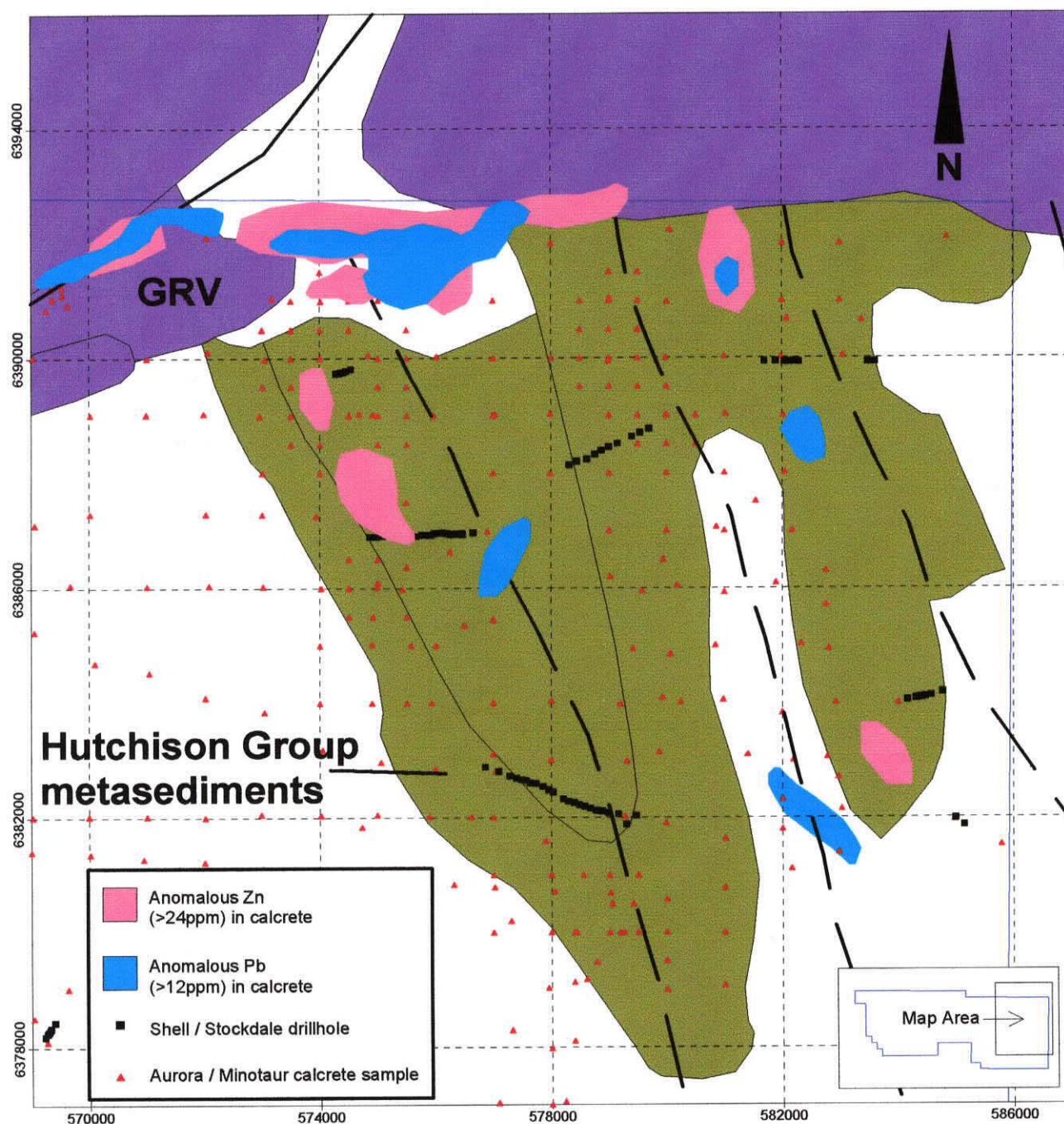


Figure 6 Hutchison Group / GRV contact along the eastern side of the tenement, coincident Pb-Zn calcrete anomalism, location of previous drill traverses.

6.0 OTHER PB-ZN TARGETS

6.1 Geochemical, Lithological & Structural Targets

Regional sampling of calcrete by Minotaur and Aurora Gold revealed coincident Pb-Zn anomalism in the area to the south of Tandaie Dam. The anomalism (approx. 4 km × 2km) extends east-west over and near the interpreted contact of the GRV and Hutchison Group (**Figure 6**). Follow-up soil sampling (**Table 2**) has confirmed the extent and scale of base metal anomalism. '*Tandaie Dam*' represents a potential Menninnie Dam style target, and should receive priority attention in future programs. Previous drilling south of this prospect revealed shallow depths (<10m) to weathered bedrock and new aeromagnetic data allow more confident bedrock and structural interpretation.

South of the contact, north to northwest trending units of Warrow Quartzite are continuous for ~10 kilometres with minor fault offsets (Taylor, 1999). These are interpreted as anticlinal limbs enclosing Middleback Subgroup metasediments. New aeromagnetic data suggests the absence of Lower and Upper Middleback Jaspilite units within the sequence. Previous RAB drilling by Shell Co. of Aust in this area targeted stratiform Pb-Zn mineralisation within prospective Hutchison Group rocks. It sampled weathered bedrock at depths generally shallower than 30m. The best result obtained was 560 ppm Zn in RAM 175 (BOH). There is still considerable potential for discovery of stratiform Pb-Zn, as indicated by untested strike extent. There is potential also for remobilised Pb-Zn associated with fault offsets and N to NNE trending fold hinges.

7.0 CONCLUSIONS AND RECOMMENDATIONS

Considerable potential exists for the discovery of medium-sized (20-30Mt) Menninnie Dam style Pb-Zn deposits on EL 2260. Exploration potential also exists for larger SEDEX or Broken Hill type exhalative deposits in the eastern portion of the tenement.

Further work at Paney and Tin Hut Prospects is considered low priority. The fact that no EM anomalies were delineated at the southern GRV margin at Paney Prospect, where geochemical Pb+Zn calcrete anomalies occur, seems to downgrade the potential for discovery of significant sulphide accumulations. Further work at Tin Hut Prospect would involve geophysical modelling and deep (RC) drilling, targeting the peaks of the fault bounded magnetic high.

It is recommended that future work should include:

- Ground reconnaissance work at '*Tandaie Dam*' including rock chip sampling, regolith mapping and a preliminary study to establish the best method of regolith sampling in the area flanking the southern Gawler Range.
- Regolith (i.e. soil/calcrete) sampling at '*Tandaie Dam*', with particular attention given to the contact between the GRV and Middleback Subgroup, including Katunga dolomite and Cook Gap Schist equivalents.

Later work could include:

- EM survey covering zones of anomalous geochemistry along the interpreted metasediment / volcanic contact

- Ground magnetic grid over potential targets
- Drilling

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- Taylor, G., 1999b. Progress Report for the period 10 January 1999 to 31 March 2000, Exploration Licence 2260 Black Eagle. Primary Industries and Resources SA.

TABLE 1: Orientation soil geochemistry, Tin Hut Prospect

Easting	Northing	Depth	Type	Comments	S/No	SOILS	Au 1ppb ARM2	Au Dp1 0.01ppm ARM2	Ag 0.5ppm ARM2	As 0.2ppm ARM2	Cu 0.1ppm ARM2	Mo 0.1ppm ARM2	Bi 0.1ppm ARM2	Pb 0.2ppm ARM2	Zn 0.5ppm ARM2	CALCRETE	Au 1ppb AATOC	Au dupl	As 1ppm IC2EC	Ca 0.01% IC2EC	Co 1ppm IC2EC	Cd 1ppm IC2EC	Cu 1ppm IC2EC	Mg 0.01% IC2EC	Ni 0.01% IC2EC	Pb 3ppm IC2EC	Zn 1ppm IC2EC	Fe 100ppm IC2EC	Mn 5ppm IC2EC	Easting		
569005	6378262	5x15cm	Soils	Bulk & -80mm	THP01	-80MM	-1	-9000	0.05	2.5	7.5	0.3	0.1	11.5	11	THP01	2	-9000	3	9	5	-1	11	0.87	-1	13	8	22	20200	115	569005	
569023	6378264	5x15cm	Soils	Bulk & -40mm	THP02	-80MM	-1	-9000	0.07	-0.5	6.5	0.3	0.2	11.5	11.5	THP02	1	-9000	3	9.5	5	-1	10	0.87	-1	12	8	21	19300	110	569023	
569042	6378262	5x15cm	Soils	Bulk & -80mm	THP03	-80MM	-1	-9000	0.05	2	6.5	0.3	0.1	11.5	11	THP03	2	-9000	3	10.5	5	-1	12	0.98	-1	13	8	19	19700	100	569042	
569050	6378262	5x15cm	Soils	Bulk & -80mm	THP04	-80MM	-1	-9000	0.07	-0.5	7	0.3	0.2	10.5	12.5	THP04	1	-9000	3	6.5	4	-1	10	0.98	-1	11	8	22	19500	115	569050	
569085	6378258	5x15cm	Soils	Bulk & -80mm	THP05	-80MM	2	-9000	0.08	0.5	8.5	0.2	0.1	12.5	10	THP05	2	-9000	3	9	5	-1	12	0.82	-1	13	8	20	20400	115	569085	
569099	6378257	5x15cm	Soils	Bulk & -80mm	THP06	-80MM	-1	-9000	0.06	-0.5	8	0.3	0.1	13.5	13	THP06	2	-9000	3	8	5	-1	11	0.84	-1	11	8	20	18100	120	569099	
569120	6378252	5x15cm	Soils	Bulk & -80mm	THP07	-80MM	2	-9000	0.09	-0.5	5.5	0.5	0.2	14.5	14	THP07	2	-9000	3	8	5	-1	11	0.54	-1	12	8	17	17200	105	569120	
569139	6378252	5x15cm	Soils	Bulk & -80mm	THP08	-80MM	-1	-9000	0.15	-0.5	6.5	0.5	0.3	18.5	18	THP08	2	-9000	3	7.5	4	-1	10	0.54	-1	11	8	19	19000	110	569139	
569158	6378253	5x15cm	Soils	Bulk & -80mm	THP09	-80MM	-1	-9000	0.11	-0.5	5.5	0.5	0.2	19.5	20	THP09	-1	-9000	2	7.5	4	-1	13	0.55	-1	12	8	20	20000	115	569158	
569179	6378253	5x15cm	Soils	Bulk & -80mm	THP10	-80MM	-1	-9000	0.11	-0.5	5.5	0.2	0.3	17	17	THP10	-1	-9000	4	8	5	-1	11	0.59	-1	12	8	21	20600	115	569179	
569198	6378254	5x15cm	Soils	Bulk & -80mm	THP11	-80MM	-1	-9000	0.17	1	5.5	0.4	0.2	16	17.5	THP11	-1	-9000	4	8	5	-1	13	0.62	-1	14	8	24	22000	135	569198	
569215	6378254	5x15cm	Soils	Bulk & -80mm	THP12	-80MM	-1	-9000	0.09	1.5	5	0.3	0.2	13	16.5	THP12	-1	-9000	3	8	5	-1	12	0.6	-1	13	8	23	21200	135	569215	
569230	6378255	5x15cm	Soils	Bulk & -80mm	THP13	-80MM	-1	-1	0.15	-0.5	4.8	0.3	0.2	16.5	17.5	THP13	-1	-9000	2	8	5	-1	13	0.59	-1	14	8	22	21600	135	569230	
569240	6378254	5x15cm	Soils	Bulk & -80mm	THP14	-80MM	1	-9000	0.04	2	3.8	0.2	0.1	12.5	10	THP14	-1	-9000	2	9	5	-1	12	0.53	-1	13	8	23	21400	140	569240	
569260	6378252	5x15cm	Soils	Bulk & -80mm	THP15	-80MM	2	-9000	0.12	3.5	6	0.4	0.2	14.5	14.5	THP15	-1	-9000	3	8	5	-1	13	0.58	-1	14	20	9900	120	569260		
569280	6378253	5x15cm	Soils	Bulk & -80mm	THP16	-80MM	-1	-9000	0.08	2	5.5	0.3	0.2	14	15.5	THP16	-1	-9000	3	8	5	-1	12	0.58	-1	12	8	19	18600	110	569280	
569300	6378254	5x15cm	Soils	Bulk & -80mm	THP17	-80MM	-1	-9000	0.04	1	4.4	0.2	0.1	11	10	THP17	-1	-9000	3	8	5	-1	12	0.58	-1	13	8	19	18600	110	569300	
569319	6378254	5x15cm	Soils	Bulk & -80mm	THP18	-80MM	2	-9000	0.09	-0.5	4.8	0.5	0.2	18.5	18	THP18	-1	-9000	3	7.5	5	-1	10	0.58	-1	11	8	19	18600	115	569319	
569340	6378254	5x15cm	Soils	Bulk & -80mm	THP19	-80MM	-1	-9000	0.11	-0.5	4.1	0.2	0.2	16	14	THP19	-1	-9000	3	8.5	5	-1	11	0.58	-1	12	8	18	17600	110	569340	
569359	6378255	5x15cm	Soils	Bulk & -80mm	THP20	-80MM	2	-9000	0.12	-0.5	5.5	0.4	0.2	17.5	14	THP20	-1	-9000	4	8.5	5	-1	11	0.58	-1	12	8	20	18100	120	569359	
569380	6378257	5x15cm	Soils	Bulk & -80mm	THP21	-80MM	1	-9000	0.06	1	4.6	0.4	0.2	11	11	THP21	-1	-1	3	6.5	4	-1	11	0.49	-1	12	8	18	17900	115	569380	
20Mtr Spaced Soils Program Along AURORA Drill Holes, Tin Hut Prospect Nov 89. IACALL AMQ Zone 53 AGD96																																

TABLE 2: Tandale Dam/White Tank -80 Mesh Soils

S/No	Easting	Northing	Au	Au Dp1	Ag	As	Cu	Mo	Bi	Pb	Zn	Depth	Type
WT-01	572400	6392600	<1	-9000	0.08	2	9.5	0.4	0.2	18.5	29	5<15cm	Soils
WT-02	572600	6392600	<1	-9000	0.07	1.5	10.5	0.4	0.3	22	33	5<15cm	Soils
WT-03	572800	6392600	<1	-9000	0.04	1	8	0.4	0.2	17	25	5<15cm	Soils
WT-04	573000	6392600	2	-9000	0.05	1.5	9	0.3	0.2	19	25.5	5<15cm	Soils
WT-05	573200	6392600	1	-9000	0.06	1.5	10	0.4	0.3	19	29	5<15cm	Soils
WT-06	573400	6392600	1	-9000	0.05	1.5	10.5	0.3	0.2	22	32	5<15cm	Soils
WT-07	573600	6392600	1	-9000	0.03	1	8	0.3	0.2	20.5	31.5	5<15cm	Soils
WT-08	573800	6392600	2	-9000	0.04	1.5	8.5	0.3	0.2	14.5	25.5	5<15cm	Soils
WT-09	574000	6392600	<1	-9000	0.04	1.5	10	0.3	0.2	14	26	5<15cm	Soils
WT-10	574200	6392600	<1	-9000	0.03	1	10	0.3	0.2	12.5	20.5	5<15cm	Soils
WT-11	574400	6392600	<1	-9000	0.05	1.5	10.5	0.3	0.3	25.5	35	5<15cm	Soils
WT-12	574600	6392600	<1	-9000	0.03	1.5	7	0.4	0.2	14	27	5<15cm	Soils
WT-13	574800	6392600	<1	-9000	0.05	1	7	0.4	0.2	14.5	25.5	5<15cm	Soils
WT-14	575000	6392600	1	-9000	0.05	1.5	11	0.3	0.2	22	32.5	5<15cm	Soils
WT-15	575200	6392600	<1	-9000	0.06	1	9.5	0.3	0.2	15.5	24	5<15cm	Soils
WT-16	575400	6392600	<1	-9000	0.06	1	11.5	0.4	0.3	21.5	32.5	5<15cm	Soils
WT-17	575600	6392600	<1	-9000	0.04	1	8	0.2	0.2	11.5	17.5	5<15cm	Soils
WT-18	575800	6392600	2	1	0.05	1	9	0.3	0.2	17.5	27.5	5<15cm	Soils
WT-19	576000	6392600	2	-9000	0.04	<0.5	9	0.3	0.2	16.5	21.5	5<15cm	Soils
WT-20	576200	6392600	1	2	0.04	1	10	0.3	0.1	11	21	5<15cm	Soils
WT-21	576400	6392600	2	-9000	0.06	1	10	0.2	0.2	22.5	32.5	5<15cm	Soils
WT-22	576600	6392600	<1	-9000	0.08	2	11	0.4	0.3	21.5	32	5<15cm	Soils
WT-23	576800	6392600	2	-9000	0.05	1.5	10.5	0.5	0.2	23	29	5<15cm	Soils
WT-24	577000	6392500	<1	-9000	0.05	1	12	0.4	0.2	19.5	30	5<15cm	Soils
WT-25	577200	6392600	<1	-9000	0.05	2	10.5	0.4	0.2	16	23	5<15cm	Soils
WT-26	577400	6392600	<1	-9000	0.04	1.5	9	0.3	0.2	13.5	23.5	5<15cm	Soils
WT-27	577600	6392600	<1	-9000	0.05	1	8	0.2	0.2	15.5	21.5	5<15cm	Soils
WT-28	577800	6392600	1	-9000	0.04	<0.5	9	0.4	0.2	15	20.5	5<15cm	Soils
WT-29	578000	6392600	<1	-9000	0.04	<0.5	8	0.3	0.2	18	23.5	5<15cm	Soils
WT-30	578200	6392600	<1	-9000	0.04	1.5	9	0.4	0.2	15	22.5	5<15cm	Soils
WT-31	578400	6392600	<1	-9000	0.04	<0.5	8	0.4	0.2	14.5	18.5	5<15cm	Soils
WT-32	578600	6392600	2	-9000	0.05	<0.5	9	0.3	0.2	15	18.5	5<15cm	Soils
WT-33	578800	6392600	<1	-9000	0.05	1	9.5	0.3	0.2	20.5	30.5	5<15cm	Soils
WT-34	579000	6392600	<1	-9000	0.04	1.5	10	0.4	0.2	22	31.5	5<15cm	Soils
WT-35	579200	6392600	1	-9000	0.05	1	7	0.3	0.2	13	18	5<15cm	Soils
WT-36	579400	6392600	<1	-9000	0.05	1.5	11	0.4	0.2	17	25.5	5<15cm	Soils
WT-37	579400	6392400	1	-9000	0.05	1.5	9	0.4	0.2	22	27.5	5<15cm	Soils
WT-38	579400	6392200	2	-9000	0.06	1.5	11	0.2	0.2	14.5	22	5<15cm	Soils
WT-39	579400	6392000	<1	2	0.05	0.5	8	0.3	0.2	12.5	18	5<15cm	Soils
WT-40	579200	6392000	2	2	0.04	1.5	8.5	0.3	0.2	11.5	19	5<15cm	Soils
WT-41	579200	6392200	1	-9000	0.06	1	7.5	0.3	0.2	11.5	18.5	5<15cm	Soils
WT-42	579200	6392400	1	-9000	0.05	1	11	0.4	0.2	23	28.5	5<15cm	Soils
WT-43	579000	6392400	<1	-9000	0.06	1.5	9.5	0.4	0.2	17.5	29.5	5<15cm	Soils
WT-44	579000	6392200	<1	-9000	0.06	<0.5	9.5	0.4	0.2	13	19.5	5<15cm	Soils
WT-45	579000	6392000	<1	-9000	0.03	1	8	0.3	0.2	15	27.5	5<15cm	Soils
WT-46	578800	6392000	2	-9000	0.07	2	8.5	0.3	0.2	12	17	5<15cm	Soils
WT-47	578800	6392200	1	-9000	0.05	1	8.5	0.3	0.2	11	17.5	5<15cm	Soils
WT-48	578800	6392400	<1	-9000	0.06	1	11	0.3	0.2	19	27.5	5<15cm	Soils
WT-49	578600	6392400	<1	-9000	0.06	1.5	11	0.3	0.2	12	22.5	5<15cm	Soils
WT-50	578600	6392200	2	-9000	0.03	<0.5	9	0.2	0.2	12.5	15	5<15cm	Soils
WT-51	578600	6392000	1	-9000	0.04	1.5	7	0.3	0.2	13	20.5	5<15cm	Soils
WT-52	578400	6392000	1	-9000	0.04	1.5	8	0.4	0.2	12	22.5	5<15cm	Soils
WT-53	578400	6392200	1	-9000	0.05	2	11.5	0.5	0.2	14.5	21.5	5<15cm	Soils
WT-54	578400	6392400	<1	-9000	0.05	1	10.5	0.3	0.2	22	28.5	5<15cm	Soils
WT-55	578200	6392400	2	-9000	0.05	1.5	11	0.3	0.2	25.5	31.5	5<15cm	Soils
WT-56	578200	6392200	1	-9000	0.05	1.5	10.5	0.3	0.2	14	18	5<15cm	Soils
WT-57	578200	6392000	1	-9000	0.04	<0.5	6.5	0.3	0.2	11	17.5	5<15cm	Soils
WT-58	578000	6392000	<1	-9000	0.05	1	7.5	0.3	0.2	10	19.5	5<15cm	Soils
WT-59	578000	6392200	3	-9000	0.05	2.5	9.5	0.3	0.2	13.5	17.5	5<15cm	Soils
WT-60	578000	6392400	2	-9000	0.05	0.5	9	0.4	0.2	19.5	25.5	5<15cm	Soils
WT-61	577800	6392400	2	-9000	0.04	0.5	7	0.3	0.1	8.5	16		N/S
WT-62	577800	6392200	1	-9000	0.06	1	8.5	0.3	0.2	12.5	19.5		N/S
WT-65	577600	6392200	<1	-9000	0.04	1.5	7.5	0.3	0.2	16	20	5<15cm	Soils
WT-66	577600	6392400	1	-9000	0.05	<0.5	8.5	0.3	0.2	15.5	24.5	5<15cm	Soils
WT-67	577400	6392400	<1	-9000	0.06	<0.5	9	0.3	0.2	14	18	5<15cm	Soils
WT-68	577400	6392200	1	-9000	0.04	1	6.5	0.3	0.1	10.5	16	5<15cm	Soils
WT-69	577400	6392000	<1	-9000	0.04	1.5	9	0.3	0.2	14.5	24	5<15cm	Soils
WT-70	577400	6391800	1	-9000	0.03	1.5	8.5	0.3	0.2	10.5	23	5<15cm	Soils
WT-71	577400	6391600	1	-9000	0.04	1.5	11.5	0.3	0.2	15	28.5	5<15cm	Soils
WT-72	577400	6391400	2	-9000	0.04	1.5	8	0.3	0.1	9	17.5	5<15cm	Soils
WT-73	577400	6391200	2	-9000	0.03	2.5	9	0.5	0.2	12	17	5<15cm	Soils
WT-74	577400	6391000	<1	-9000	0.04	1	9	0.2	0.2	8	16.5	5<15cm	Soils
WT-75	577400	6390800	1	-9000	0.04	1	8	0.3	0.2	11.5	19.5	5<15cm	Soils
WT-76	577400	6390600	<1	-9000	0.04	1.5	8	0.3	0.2	8.5	13.5	5<15cm	Soils
WT-77	577200	6390600	<1	2	0.04	1.5	9	0.3	0.2	9	19.5	5<15cm	Soils
WT-78	577200	6390800	2	-9000	0.04	1.5	7	0.2	0.2	9	15	5<15cm	Soils
WT-79	577200	6391000	2	-9000	0.04	<0.5	8	0.2	0.1	10	14	5<15cm	Soils
WT-80	577200	6391200	1	-9000	0.04	1.5	8.5	0.4	0.2	10.5	22	5<15cm	Soils
WT-81	577200	6391400	<1	-9000	0.03	0.5	7	0.3	0.1	7.5	13	5<15cm	Soils

TABLE 2: Tandale Dam/White Tank -80 Mesh Soils

WT-82	577200	6391600	2	-9000	0.05	2	9	0.3	0.1	11	16	5<15cm	Soils
WT-83	577200	6391800	<1	<1	0.06	2	12	0.4	0.2	15.5	32	5<15cm	Soils
WT-84	577200	6392000	<1	-9000	0.06	1	9	0.3	0.2	21	28	5<15cm	Soils
WT-85	577200	6392200	2	-9000	0.05	0.5	9	0.3	0.2	19.5	22	5<15cm	Soils
WT-86	577200	6392400	<1	-9000	0.06	2	9.5	0.4	0.2	14	21.5	5<15cm	Soils
WT-87	577000	6392400	<1	-9000	0.06	0.5	9	0.3	0.2	15.5	24.5	5<15cm	Soils
WT-88	577000	6392200	<1	-9000	0.05	1.5	9.5	0.3	0.2	12.5	17.5	5<15cm	Soils
WT-89	577000	6392000	2	-9000	0.04	1	8	0.3	0.2	14.5	22.5	5<15cm	Soils
WT-90	577000	6391800	<1	-9000	0.05	1.5	10	0.3	0.2	10.5	19.5	5<15cm	Soils
WT-91	577000	6391600	1	-9000	0.04	1.5	7	0.5	0.2	18.5	20	5<15cm	Soils
WT-92	577000	6391400	1	-9000	0.05	<0.5	7.5	0.3	0.2	11	14	5<15cm	Soils
WT-93	577000	6391200	2	-9000	0.05	1.5	7.5	0.4	0.2	14	22	5<15cm	Soils
WT-94	577000	6391000	2	-9000	0.05	1	8.5	0.4	0.2	13.5	17	5<15cm	Soils
WT-95	577000	6390800	1	<1	0.05	2	8	0.3	0.2	14	13	5<15cm	Soils
WT-96	577000	6390600	1	-9000	0.04	<0.5	5.5	0.3	0.1	13	12	5<15cm	Soils
WT-97	576800	6390600	<1	-9000	0.06	2	9	0.4	0.3	16	19	5<15cm	Soils
WT-98	576800	6390800	<1	-9000	0.04	1	6	0.3	0.2	13	14.5	5<15cm	Soils
WT-99	576800	6391000	<1	-9000	0.06	1.5	7	0.3	0.2	12	17.5	5<15cm	Soils
WT-100	576800	6391200	<1	-9000	0.08	1	7	0.3	0.2	16	17	5<15cm	Soils
WT-101	576800	6391400	1	-9000	0.06	1	5.5	0.4	0.2	24.5	20	5<15cm	Soils
WT-102	576800	6391600	<1	-9000	0.07	1.5	8.5	0.4	0.2	15.5	23.5	5<15cm	Soils
WT-103	576800	6391800	1	-9000	0.04	1.5	7	0.3	0.2	15.5	18	5<15cm	Soils
WT-104	576800	6392000	<1	-9000	0.07	1.5	8	0.3	0.3	23	22	5<15cm	Soils
WT-105	576800	6392200	<1	-9000	0.05	2	8.5	0.3	0.2	18	23.5	5<15cm	Soils
WT-106	576800	6392400	<1	-9000	0.03	1.5	8	0.5	0.3	21	27.5	5<15cm	Soils
WT-107	576600	6392400	<1	-9000	0.06	1	7	0.3	0.2	14	16	5<15cm	Soils
WT-108	576600	6392200	<1	-9000	0.04	1	7	0.2	0.1	9.5	14.5	5<15cm	Soils
WT-109	576600	6392000	2	-9000	0.05	1	9	0.2	0.2	14	17.5	5<15cm	Soils
WT-110	576600	6391800	1	-9000	0.06	1.5	7	0.4	0.2	13	16	5<15cm	Soils
WT-111	576600	6391600	1	-9000	0.05	1	9.5	0.3	0.2	19.5	22	5<15cm	Soils
WT-112	576600	6391400	<1	-9000	0.04	1.5	6.5	0.2	0.1	9.5	10.5	5<15cm	Soils
WT-113	576600	6391200	<1	-9000	0.05	2	6.5	0.4	0.2	19.5	17	5<15cm	Soils
WT-114	576600	6391000	2	-9000	0.07	<0.5	7	0.3	0.2	15	18.5	5<15cm	Soils
WT-115	576600	6390800	<1	-9000	0.05	<0.5	7.5	0.3	0.2	14	18	5<15cm	Soils
WT-116	576600	6390600	2	-9000	0.06	2	7	0.3	0.1	12.5	14.5	5<15cm	Soils
WT-117	576400	6390600	<1	-9000	0.04	<0.5	7.5	0.4	0.1	11.5	14.5	5<15cm	Soils
WT-118	576400	6390800	<1	-9000	0.06	1	5.5	0.3	0.1	12	15.5	5<15cm	Soils
WT-119	576400	6391000	<1	<1	0.06	1	6.5	0.4	0.2	18.5	17.5	5<15cm	Soils
WT-120	576400	6391200	<1	-9000	0.07	1	7	0.4	0.2	15.5	15.5	5<15cm	Soils
WT-121	576400	6391400	<1	-9000	0.05	<0.5	5	0.3	0.1	11	16.5	5<15cm	Soils
WT-122	576400	6391600	2	-9000	0.08	<0.5	8	0.3	0.2	16	17	5<15cm	Soils
WT-123	576400	6391800	<1	-9000	0.06	<0.5	7.5	0.2	0.2	10.5	16	5<15cm	Soils
WT-124	576400	6392000	<1	-9000	0.05	<0.5	6	0.2	0.2	12	16.5	5<15cm	Soils
WT-125	576400	6392200	2	-9000	0.08	2	7	0.3	0.2	20	20	5<15cm	Soils
WT-126	576400	6392400	1	<1	0.06	1	9.5	0.4	0.2	13.5	21	5<15cm	Soils
WT-127	576200	6392400	2	-9000	0.07	1.5	6.5	0.2	0.2	20.5	22.5	5<15cm	Soils
WT-128	576200	6392200	1	-9000	0.08	1	7.5	0.4	0.3	24	25.5	5<15cm	Soils
WT-129	576200	6392000	<1	<1	0.07	1.5	6	0.2	0.2	19.5	20	5<15cm	Soils
WT-130	576200	6391800	<1	-9000	0.07	1	7	0.2	0.2	10.5	14	5<15cm	Soils
WT-131	576200	6391600	<1	-9000	0.04	<0.5	5.5	0.2	0.1	12.5	14.5	5<15cm	Soils
WT-132	576200	6391400	<1	-9000	0.04	2	7.5	0.4	0.2	17.5	26	5<15cm	Soils
WT-133	576200	6391200	<1	-9000	0.06	1.5	6.5	0.3	0.2	13	25	5<15cm	Soils
WT-134	576200	6391000	2	-9000	0.05	2	6	0.3	0.2	17.5	27	5<15cm	Soils
WT-135	576200	6390800	2	-9000	0.06	1.5	6	0.4	0.2	19	19	5<15cm	Soils
WT-136	576200	6390600	2	-9000	0.05	<0.5	5.5	0.4	0.2	27	31	5<15cm	Soils
WT-137	576000	6390600	1	-9000	0.05	1	6	0.3	0.3	22.5	26.5	5<15cm	Soils
WT-138	576000	6390800	<1	-9000	0.05	2	5	0.3	0.2	16.5	21.5	5<15cm	Soils
WT-139	576000	6391000	<1	-9000	0.06	1.5	7	0.3	0.3	18.5	27.5	5<15cm	Soils
WT-140	576000	6391200	<1	-9000	0.05	1	6	0.3	0.2	13	23	5<15cm	Soils
WT-141	576000	6391400	<1	-9000	0.06	2	9	0.4	0.3	24.5	34	5<15cm	Soils
WT-142	576000	6391600	<1	-9000	0.07	1.5	7	0.3	0.2	15	20.5	5<15cm	Soils
WT-143	576000	6391800	<1	-9000	0.09	1.5	6	0.3	0.2	16	20	5<15cm	Soils
WT-144	576000	6392000	2	-9000	0.06	<0.5	8	0.3	0.1	10.5	19	5<15cm	Soils
WT-145	576000	6392200	<1	-9000	0.08	<0.5	6	0.3	0.2	11.5	14	5<15cm	Soils
WT-146	576000	6392400	<1	-9000	0.05	<0.5	5.5	0.2	0.1	9.5	15.5	5<15cm	Soils
WT-147	575800	6392400	2	-9000	0.1	<0.5	8	0.3	0.2	19	22.5	5<15cm	Soils
WT-148	575800	6392200	<1	-9000	0.09	0.5	6.5	0.3	0.2	10.5	13	5<15cm	Soils
WT-149	575800	6392000	<1	-9000	0.08	<0.5	6.5	0.2	0.1	12.5	14	5<15cm	Soils
WT-150	575800	6391800	<1	-9000	0.09	2	9	0.3	0.2	18	19.5	5<15cm	Soils
WT-151	575800	6391600	1	-9000	0.04	1.5	8.5	0.4	0.3	24.5	30	5<15cm	Soils
WT-152	575800	6391400	<1	-9000	0.11	2	6	0.3	0.2	17	23	5<15cm	Soils
WT-153	575800	6391200	<1	-9000	0.07	2	8	0.3	0.2	21	24	5<15cm	Soils
WT-154	575800	6391000	<1	-9000	0.07	2.5	5.5	0.4	0.2	19	22.5	5<15cm	Soils
WT-155	575800	6390800	2	-9000	0.07	2	7.5	0.4	0.2	20.5	24	5<15cm	Soils
WT-156	575800	6390600	<1	-9000	0.06	0.5	6	0.4	0.2	16.5	25	5<15cm	Soils
WT-157	575600	6390600	<1	-9000	0.05	1	10	0.4	0.3	24.5	29.5	5<15cm	Soils
WT-158	575600	6390800	<1	<1	0.05	1.5	6	0.3	0.2	19.5	19.5	5<15cm	Soils
WT-159	575600	6391000	<1	-9000	0.04	2	4.5	0.4	0.2	13	18	5<15cm	Soils
WT-160	575600	6391200	<1	-9000	0.05	2	6.5	0.4	0.2	16	20.5	5<15cm	Soils
WT-161	575600	6391400	<1	-9000	0.06	<0.5	6.5	0.3	0.2	14.5	19	5<15cm	Soils

TABLE 2: Tandale Dam/White Tank -80 Mesh Soils

WT-162	575600	6391600	1	-9000	0.1	2	8.5	0.4	0.2	19.5	37.5	5<15cm	Soils
WT-163	575600	6391800	<1	-9000	0.08	1	10.5	0.4	0.3	19.5	26	5<15cm	Soils
WT-164	575600	6392000	<1	-9000	0.05	1.5	8	0.2	0.2	17.5	22.5	5<15cm	Soils
WT-165	575600	6392200	<1	-9000	0.09	1	8	0.3	0.2	19.5	21.5	5<15cm	Soils
WT-166	575600	6392400	<1	-9000	0.08	1.5	8.5	0.3	0.1	12	20	5<15cm	Soils
WT-167	575400	6392400	1	-9000	0.07	1	7.5	0.3	0.2	20.5	29	5<15cm	Soils
WT-168	575400	6392200	2	-9000	0.08	2	11	0.4	0.2	22	29	5<15cm	Soils
WT-169	575400	6392000	<1	-9000	0.07	2	9	0.3	0.2	21.5	27	5<15cm	Soils
WT-170	575400	6391800	2	-9000	0.12	2	8	0.4	0.3	21.5	30	5<15cm	Soils
WT-171	575400	6391600	<1	-9000	0.02	1	7.5	0.2	0.2	14	22.5	5<15cm	Soils
WT-172	575400	6391400	<1	-9000	0.05	1.5	6	0.3	0.2	12.5	22	5<15cm	Soils
WT-173	575400	6391200	<1	-9000	0.05	1	5	0.3	0.1	14	18	5<15cm	Soils
WT-174	575400	6391000	<1	-9000	0.06	1	4.6	0.3	0.2	14.5	19	5<15cm	Soils
WT-175	575400	6390800	<1	-9000	0.04	1.5	5	0.3	0.2	14	20	5<15cm	Soils
WT-176	575400	6390600	<1	-9000	0.07	2.5	9.5	0.5	0.3	20.5	28.5	5<15cm	Soils
WT-177	575200	6390600	<1	<1	0.07	1.5	8	0.5	0.2	11	17.5	5<15cm	Soils
WT-178	575200	6390800	<1	-9000	0.08	<0.5	9	0.4	0.2	25	30.5	5<15cm	Soils
WT-179	575200	6391000	<1	-9000	0.05	1.5	5	0.3	0.2	12	17	5<15cm	Soils
WT-180	575200	6391200	<1	-9000	0.07	0.5	6.5	0.4	0.2	17	23	5<15cm	Soils
WT-181	575200	6391400	<1	<1	0.03	1	4.9	0.4	0.2	16	21	5<15cm	Soils
WT-182	575200	6391600	<1	-9000	0.05	2	5.5	0.4	0.2	15	23	5<15cm	Soils
WT-183	575200	6391800	<1	-9000	0.12	2	8	0.3	0.2	18	27	5<15cm	Soils
WT-184	575200	6392000	<1	-9000	0.07	2	8.5	0.4	0.2	21.5	28.5	5<15cm	Soils
WT-185	575200	6392200	<1	-9000	0.1	1.5	9	0.4	0.3	25	33.5	5<15cm	Soils
WT-186	575200	6392400	<1	-9000	0.08	2	8.5	0.3	0.2	17	26	5<15cm	Soils
WT-187	575000	6392400	<1	-9000	0.06	1	7	0.3	0.2	17.5	27	5<15cm	Soils
WT-188	575000	6392200	<1	-9000	0.07	1	7	0.3	0.2	20	36.5	5<15cm	Soils
WT-189	575000	6392000	<1	-9000	0.08	1.5	8.5	0.4	0.2	16	28.5	5<15cm	Soils
WT-190	575000	6391800	<1	-9000	0.04	1.5	6	0.3	0.2	13.5	21.5	5<15cm	Soils
WT-191	575000	6391600	<1	-9000	0.06	1	6.5	0.3	0.2	20	30	5<15cm	Soils
WT-192	575000	6391400	<1	-9000	0.08	2	10	0.3	0.3	24	33.5	5<15cm	Soils
WT-193	575000	6391200	<1	-9000	0.07	1	6.5	0.3	0.2	11.5	21	5<15cm	Soils
WT-194	575000	6391000	1	-9000	0.07	2	8.5	0.4	0.2	18	25.5	5<15cm	Soils
WT-195	575000	6390800	<1	-9000	0.09	1.5	10.5	0.4	0.2	23.5	35	5<15cm	Soils
WT-196	575000	6390600	1	-9000	0.08	<0.5	10.5	0.3	0.1	11.5	17.5	5<15cm	Soils
WT-197	574800	6390600	2	<1	0.05	<0.5	9.5	0.4	0.2	11.5	16.5	5<15cm	Soils
WT-198	574800	6390800	<1	-9000	0.03	2	7	0.3	0.2	18	24.5	5<15cm	Soils
WT-199	574800	6391000	<1	-9000	0.05	1.5	7	0.3	0.2	18	21	5<15cm	Soils
WT-200	574800	6391200	2	-9000	0.08	<0.5	9.5	0.2	0.2	18.5	30	5<15cm	Soils
WT-201	574800	6391400	<1	-9000	0.04	1	6	0.4	0.2	18.5	26.5	5<15cm	Soils
WT-202	574800	6391600	<1	-9000	0.06	1.5	8.5	0.4	0.2	18	27.5	5<15cm	Soils
WT-203	574800	6391800	<1	-9000	0.03	1.5	4.6	0.2	0.1	13	20	5<15cm	Soils
WT-204	574800	6392000	2	-9000	0.09	1.5	11.5	0.4	0.2	21.5	29.5	5<15cm	Soils
WT-205	574800	6392200	1	-9000	0.08	1.5	8.5	0.4	0.2	16	27	5<15cm	Soils
WT-207	574600	6392400	<1	-9000	0.06	2	7	0.4	0.2	16	30.5	5<15cm	Soils
WT-208	574600	6392200	<1	-9000	0.07	1.5	7.5	0.4	0.2	17	33	5<15cm	Soils
WT-209	574600	6392000	<1	-9000	0.05	1.5	6	0.3	0.1	17	22.5	5<15cm	Soils
WT-210	574600	6391800	<1	-9000	0.09	1.5	8.5	0.4	0.2	18.5	30	5<15cm	Soils
WT-211	574600	6391600	<1	-9000	0.08	1	8.5	0.5	0.3	22	32	5<15cm	Soils
WT-212	574600	6391400	<1	-9000	0.09	1.5	11	0.6	0.3	23.5	37.5	5<15cm	Soils
WT-213	574600	6391200	<1	-9000	0.08	1.5	10	0.4	0.2	24.5	30.5	5<15cm	Soils
WT-214	574600	6391000	<1	-9000	0.06	1.5	6.5	0.4	0.2	20	20.5	5<15cm	Soils
WT-215	574600	6390800	<1	<1	0.07	1.5	8	0.4	0.2	19.5	26	5<15cm	Soils
WT-216	574600	6390600	<1	-9000	0.07	0.5	7	0.3	0.2	19.5	28	5<15cm	Soils
WT-217	574400	6390600	1	-9000	0.07	<0.5	6.5	0.5	0.2	11.5	17.5	5<15cm	Soils
WT-218	574400	6390800	<1	-9000	0.07	1.5	9.5	0.4	0.1	10.5	14.5	5<15cm	Soils
WT-219	574400	6391000	<1	-9000	0.05	1	5	0.3	0.2	15	25	5<15cm	Soils
WT-220	574400	6391200	<1	-9000	0.05	1.5	4.9	0.3	0.1	17.5	18.5	5<15cm	Soils
WT-221	574400	6391400	1	-9000	0.08	1	9	0.3	0.2	26.5	32	5<15cm	Soils
WT-222	574400	6391600	<1	-9000	0.06	2	10.5	0.3	0.2	25.5	32	5<15cm	Soils
WT-223	574400	6391800	<1	-9000	0.07	1	7	0.2	0.2	23.5	25	5<15cm	Soils
WT-224	574400	6392000	2	-9000	0.11	2.5	9.5	0.3	0.3	23	28	5<15cm	Soils
WT-225	574400	6392200	<1	-9000	0.08	2	8.5	0.2	0.1	17	18.5	5<15cm	Soils
WT-226	574400	6392400	<1	-9000	0.06	0.5	8	0.3	0.2	22	27	5<15cm	Soils
WT-227	574200	6392400	<1	-9000	0.08	<0.5	7.5	0.2	0.2	23	31.5	5<15cm	Soils
WT-228	574200	6392200	<1	-9000	0.13	1	10.5	0.4	0.2	20.5	30.5	5<15cm	Soils
WT-229	574200	6392000	<1	-9000	0.09	1.5	9.5	0.2	0.2	16.5	18.5	5<15cm	Soils
WT-230	574200	6391800	1	-9000	0.09	1.5	10.5	0.3	0.2	21.5	23	5<15cm	Soils
WT-231	574200	6391600	<1	-9000	0.17	1.5	8.5	0.3	0.3	25	32	5<15cm	Soils
WT-232	574200	6391400	1	-9000	0.1	3	8.5	0.3	0.2	25	29	5<15cm	Soils
WT-233	574200	6391200	<1	-9000	0.13	<0.5	10	0.3	0.2	21.5	24	5<15cm	Soils
WT-234	574200	6391000	<1	-9000	0.07	<0.5	8	0.3	0.2	19	25.5	5<15cm	Soils
WT-235	574200	6390800	<1	-9000	0.06	<0.5	6.5	0.2	0.2	22	24	5<15cm	Soils
WT-236	574200	6390600	3	-9000	0.08	0.5	10	0.3	0.2	13.5	17	5<15cm	Soils
WT-237	574000	6390600	2	<1	0.09	<0.5	11.5	0.3	0.2	15	18.5	5<15cm	Soils
WT-238	574000	6390800	2	-9000	0.08	<0.5	10	0.3	0.2	27.5	27.5	5<15cm	Soils
WT-239	574000	6391000	<1	-9000	0.1	1.5	8	0.3	0.3	25.5	34.5	5<15cm	Soils
WT-240	574000	6391200	<1	-9000	0.06	0.5	6	0.3	0.2	21	18.5	5<15cm	Soils
WT-241	574000	6391400	<1	-9000	0.09	2	6	0.2	0.2	19.5	24	5<15cm	Soils
WT-242	574000	6391600	<1	-9000	0.07	1.5	8	0.4	0.2	25	29.5	5<15cm	Soils

TABLE 2: Tandale Dam/White Tank -80 Mesh Soils

WT-243	574000	6391800	<1	-9000	0.06	<0.5	7.5	0.3	0.3	25.5	40	5<15cm	Soils
WT-244	574000	6392000	<1	-9000	0.07	<0.5	9	0.2	0.2	25	27	5<15cm	Soils
WT-245	574000	6392200	<1	-9000	0.09	<0.5	9.5	0.3	0.1	13.5	23.5	5<15cm	Soils
WT-246	574000	6392400	2	-9000	0.09	2	10.5	0.2	0.2	19	23	5<15cm	Soils
WT-247	573800	6392400	<1	-9000	0.07	2	8	0.3	0.3	25.5	36.5	5<15cm	Soils
WT-248	573800	6392200	<1	-9000	0.09	<0.5	8.5	0.2	0.2	17	23.5	5<15cm	Soils
WT-249	573800	6392000	1	-9000	0.07	1	7.5	0.2	0.1	15	16.5	5<15cm	Soils
WT-250	573800	6391800	2	-9000	0.09	2	8.5	0.3	0.2	25	25	5<15cm	Soils
WT-251	573800	6391600	<1	-9000	0.11	2.5	12.5	0.5	0.3	24	31	5<15cm	Soils
WT-252	573800	6391400	<1	-9000	0.09	3	10.5	0.3	0.2	26	31.5	5<15cm	Soils
WT-253	573800	6391200	1	-9000	0.08	<0.5	9.5	0.2	0.2	16	18	5<15cm	Soils
WT-254	573800	6391000	1	<1	0.1	1.5	9.5	0.3	0.2	20	31	5<15cm	Soils
WT-255	573800	6390800	<1	-9000	0.05	<0.5	8	0.2	0.3	19	35.5	5<15cm	Soils
WT-256	573800	6390600	<1	-9000	0.06	<0.5	9.5	0.3	0.1	11	16.5	5<15cm	Soils
WT-257	573600	6390600	<1	-9000	0.07	<0.5	10	0.3	0.2	20	27	5<15cm	Soils
WT-258	573600	6390800	1	-9000	0.08	1	9.5	0.3	0.2	22.5	28.5	5<15cm	Soils
WT-259	573600	6391000	<1	-9000	0.05	0.5	7	0.2	0.2	17	22.5	5<15cm	Soils
WT-260	573600	6391200	1	<1	0.04	1	6.5	0.2	0.2	13.5	23	5<15cm	Soils
WT-261	573600	6391400	<1	-9000	0.07	<0.5	10	0.3	0.2	19.5	22.5	5<15cm	Soils
WT-262	573600	6391600	<1	-9000	0.08	<0.5	8	0.2	0.2	21.5	22	5<15cm	Soils
WT-263	573600	6391800	<1	-9000	0.06	1.5	8	0.3	0.2	18	21.5	5<15cm	Soils
WT-264	573600	6392000	<1	-9000	0.1	1	10.5	0.3	0.2	27	31.5	5<15cm	Soils
WT-265	573600	6392200	<1	-9000	0.08	<0.5	10	0.2	0.1	15.5	14.5	5<15cm	Soils
WT-266	573600	6392400	<1	-9000	0.08	<0.5	9	0.3	0.2	18.5	22	5<15cm	Soils
WT-267	573400	6392400	2	-9000	0.07	<0.5	7.5	0.2	0.1	18	20	5<15cm	Soils
WT-268	573400	6392200	1	-9000	0.08	1.5	10.5	0.3	0.2	21	35.5	5<15cm	Soils
WT-269	573400	6392000	<1	-9000	0.11	<0.5	11	0.4	0.3	24	27.5	5<15cm	Soils
WT-270	573200	6392000	<1	-9000	0.09	1	8.5	0.3	0.2	25.5	32	5<15cm	Soils
WT-271	573200	6392200	<1	-9000	0.09	0.5	6.5	0.3	0.1	18.5	16.5	5<15cm	Soils
WT-272	573200	6392400	<1	<1	0.09	1	7	0.3	0.2	16.5	17.5	5<15cm	Soils
WT-273	573000	6392400	2	-9000	0.1	1.5	12	0.6	0.3	29.5	35	5<15cm	Soils
WT-274	573000	6392200	<1	-9000	0.12	1.5	7.5	0.3	0.2	19	17.5	5<15cm	Soils
WT-278	572800	6392400	1	-9000	0.05	1	9	0.6	0.3	24.5	32.5	5<15cm	Soils
WT-279	572600	6392400	2	-9000	0.09	1	10.5	0.5	0.2	23	25.5	5<15cm	Soils
WT-284	572400	6392400	1	-9000	0.07	2.5	8.5	0.4	0.2	20	25.5	5<15cm	Soils

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EL 2260 BLACK EAGLE

4TH AND FINAL ANNUAL TECHNICAL REPORT FOR THE PERIOD 10 JANUARY 2000 TO 9 JANUARY 2001

**A. P. BELPERIO
CHIEF GEOLOGIST**

30TH MARCH 2001

SUMMARY

- Minotaur Gold has completed four years of exploration on EL 2260 (Black Eagle), where it has been simultaneously exploring for Au and Pb-Zn-Ag mineralisation.
- Regional calcrete sampling over half of the tenement has detected a number of sites of Ag, Pb and Zn, as well as Au-As and Cu-As anomalism including geochemical anomalism along the Gawler Range Volcanics southern margin.
- Significant base metal and silver drillhole intercepts in Hutchison Group metasediments have been recorded at the Paney and Tin Hut prospects by Shell Minerals, Aberfoyle and Aurora Gold. These include 9m of 0.5% Zn, 1.8% Pb, 7 g/t Ag and 20-100 ppb Au at the Paney Prospect and 17m of 0.5% Zn, 0.2% Pb, 0.1% Cu and 15 g/t Ag at Tin Hut Prospect).
- Aeromagnetic re-interpretation indicates that these targets have been adequately tested

MAP REFERENCE:
1:250,000 MAP SHEET YARDEA SI 53
1:100,000 MAP SHEETS
CACUPPA 6032, MINNIPA 5932

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KEY WORDS

Gold Exploration, Base Metals, Hutchison Group, Minotaur

COMMODITIES

Gold, Base Metals

1.0 INTRODUCTION

Exploration Licence 2260 (Black Eagle) covering 942 km² of the southern Gawler Craton (**Fig 1**) was granted to Minotaur Gold NL on January 10th 1997, and renewed on an annual basis with an expenditure commitment of \$120,000 per annum. In its second year, the tenement was subject to a joint venture with Aurora Gold. This joint venture was dissolved and title returned unencumbered to Minotaur in April 1999 after drilling of two gold targets by Aurora.

Previous geochemical work by Minotaur is covered by the 1st Annual Technical Report (Belperio, 1998). The work by Aurora is covered by the 2nd Annual Technical Report (Taylor 1999a) and in a progress report for the period 10 January 1999 to 31 March 1999 (Taylor 1999b). A review of results to date is contained in the 3rd Annual Technical Report (Freeman and Belperio, 2000).

The tenement area covers portions of the Paney and Buckleboo pastoral leases. Prominent hills of Gawler Range Volcanics occupy the northern part of the licence, with extensive partly cleared outwash plains masking Proterozoic metasediments and intrusives making up the majority of the licence area.

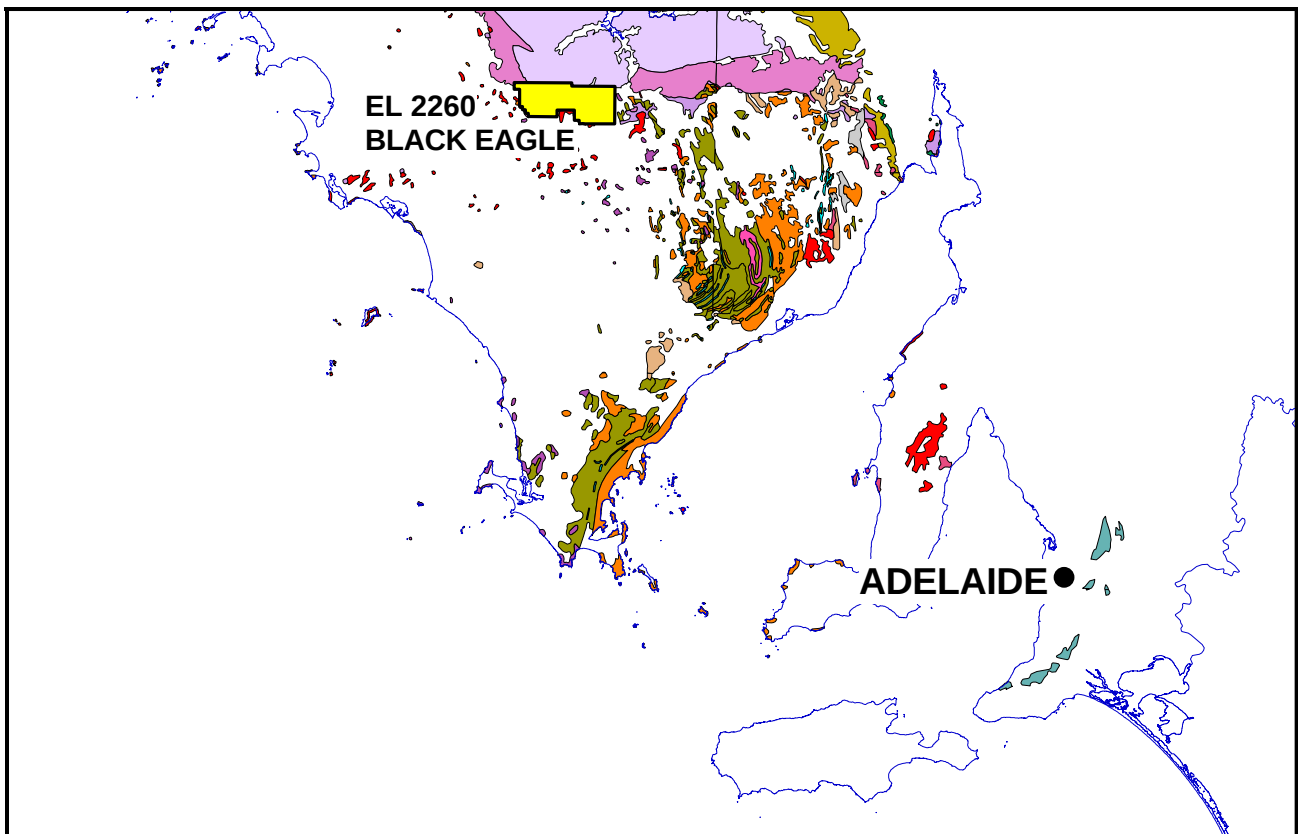


Figure 1. Location of EL 2260, Black Eagle.

2.0 GEOLOGICAL FRAMEWORK

The Gawler Craton, comprising crystalline basement of Archaean to Mesoproterozoic age, covers a large portion of western South Australia. On the southern Craton at Black Eagle, the basement rocks are dominated by Palaeoproterozoic metasediments (Hutchison Group) (Parker et al., 1993). Voluminous syn-tectonic intrusives (the Lincoln Complex granitoids), polyphase deformation and shearing accompanied a major orogenic event (the Kimban Orogeny) at c. 1850-1700 Ma. The younger (1585Ma) and metallogenically highly significant Gawler Range Volcanics and co-magmatic Hiltaba Suite Granites in part exploited these earlier fractures. The 1585Ma magmatic events were responsible for the giant Olympic Dam Cu-Au-U orebody and are thought to be critical to other mineralisation in the area including Menninnie Dam and Tunkillia. Recent U-Pb zircon dating (Daly et al., 1997) has revealed a younger tectonic event (1650-1540 Ma Kararan Orogeny) largely focussed along earlier major shear zones.

Exploration by Shell Minerals and Aberfoyle have confirmed mineralised Hutchison Group calcsilicates, BIFs and amphibolites within the Black Eagle tenement. Stratiform Pb-Zn mineralisation (Broken Hill style) in the Hutchison Group metasediments has been the principle model for past exploration in this region, although a re-interpretation of the genesis of Pb-Zn mineralisation at Menninnie Dam has refocussed exploration concepts in this region.

3.0 EXPLORATION SYNOPSIS

Two main styles of base metal mineralisation should be considered in forming a basis for Pb-Zn exploration within the licence:

- Stratiform and remobilised exhalative (SEDEX) base metal deposits, (Broken Hill style) associated with Hutchison Group schist, calcsilicate, dolomite, banded iron formation and concordant ortho-amphibolites.
- Epigenetic, low temperature, skarn-associated Pb-Zn-Ag mineralisation (Menninnie Dam style) considered to be contemporaneous with the Gawler Range Volcanics (GRV) - Hiltaba Suite emplacement at ~1590 Ma. Interaction of these rocks and hydrothermal fluids with Hutchison Group reactive metasediments (carbonates and BIF) and subsequent cooling of the associated igneous bodies led to the precipitation of Pb and Zn sulphides, in an interlayered diopside-calcite-talc-epidote calcsilicate host at Menninnie Dam (Daly *et al.*, 1998), 60 km east of the licence.

(Late stage Kimban / Kararan shearing in Hiltaba granite and related rocks may hold Pb-Zn mineralised components, however the available outcrop of Hiltaba granite in EL 2260 exhibits little or no deformation.)

Previous drilling at Paney Prospect (**Figure 2**) by Aberfoyle / Billiton concentrated largely on discrete NW to NNW-trending Sirotem anomalies sub-parallel to magnetic anomalies 500-1000nT above background. The 1000-1500 m long magnetic anomalies appear to be offset by N-S and NE-SW trending fault zones. These drillholes confirmed geochemically anomalous Hutchison Group stratigraphy. Diamond drillhole PP1 (Prairie Anomaly) intersected pyritic metasediments containing 4 discrete zones of Pb-Zn sulphide mineralisation close to the contact between the Hutchison Group and the southern margin of the GRV (e.g. 3m of 1.12% Pb, 1.29% Zn and 10ppm

Ag). A 40m zone of graphitic schist coincides with the Sirotem model (Berg, 1986). Two kilometres south DDH PE 1 (Elephant Anomaly) intersected more sporadic Pb-Zn mineralisation of lower grade. One RAB hole (RAM 199), 200m south of DDH-PE1, intersected 6m at 0.1% Pb from 40m in Warrow Quartzite. No drillholes intersected sources for the magnetic anomalies.

Drilling by Aberfoyle also revealed a typical regolith profile of ~5m of calcareous soil and red-brown sandy/gritty clay overlying ~20-25m of partially silcreted and/or ferricreted clay, sand and gravel.

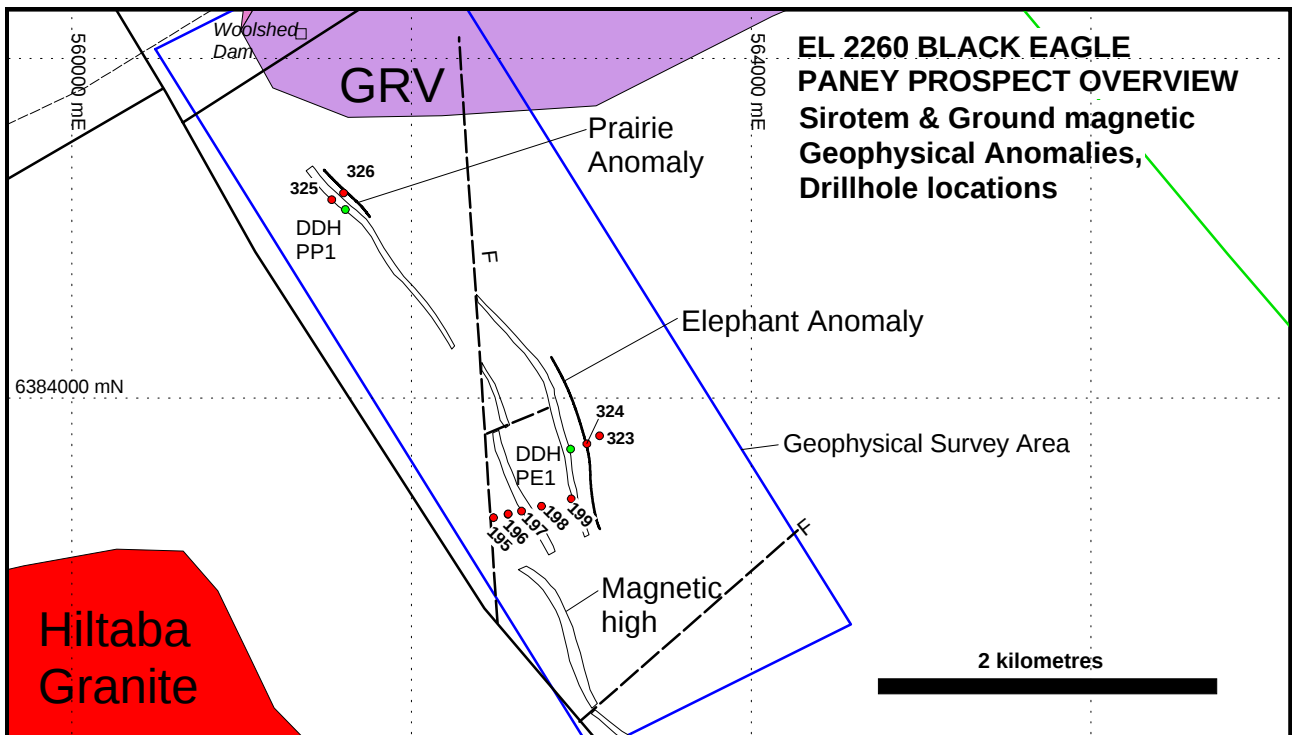


Figure 2 Paney Prospect.

Approximately 8 kilometres SE of Paney Prospect, Tin Hut Prospect borders the same fault bounded stock of Hiltaba Suite granite. A ground magnetic survey over a regional magnetic bullseye revealed a twin peaked anomaly of ~500m strike length trending NNW, and 1400-1600 nT above background (Taylor, 1999). The sharp southern margin of the anomaly is attributed to an ENE trending GRV dyke or fault zone and a NNW fault controls the western margin. Ground magnetic data modelling indicated units dipping 50°-60°N. Early aircore and RAB drilling by Aberfoyle outlined >500m thickness of amphibolite facies metasediments, considered stratigraphic equivalents of the Hutchison Group Katunga dolomite and Cook Gap schist (Coutts, 1992). Furthermore, this drilling delineated an extensive 1.8 km × 250 m bedrock anomalous zone of Pb >0.1%, Zn >0.1% and Cu >500ppm (**Figure 3**), generally coincident with the magnetic high.

Five RC holes were completed in October-November 1993 to test the southern EM anomaly and the anomalous bedrock zone. These targets were thought to coincide with a NE to N dipping antiformal axial plane. Narrow zones of Pb-Zn mineralisation were intersected; best 2m @ 2.6% Pb+Zn. Taylor (1999) suggested that the area of low magnetic response and the two EM anomalies represented the distal portion of an epigenetic system.

Aircore drilling by Aurora Gold in 1999 again confirmed the anomalous Pb-Zn-Ag geochemistry, with best results of 45.4 g/t Ag, 1.5% Zn, 0.29% Pb and 0.1% Cu coming from a grey, silica altered

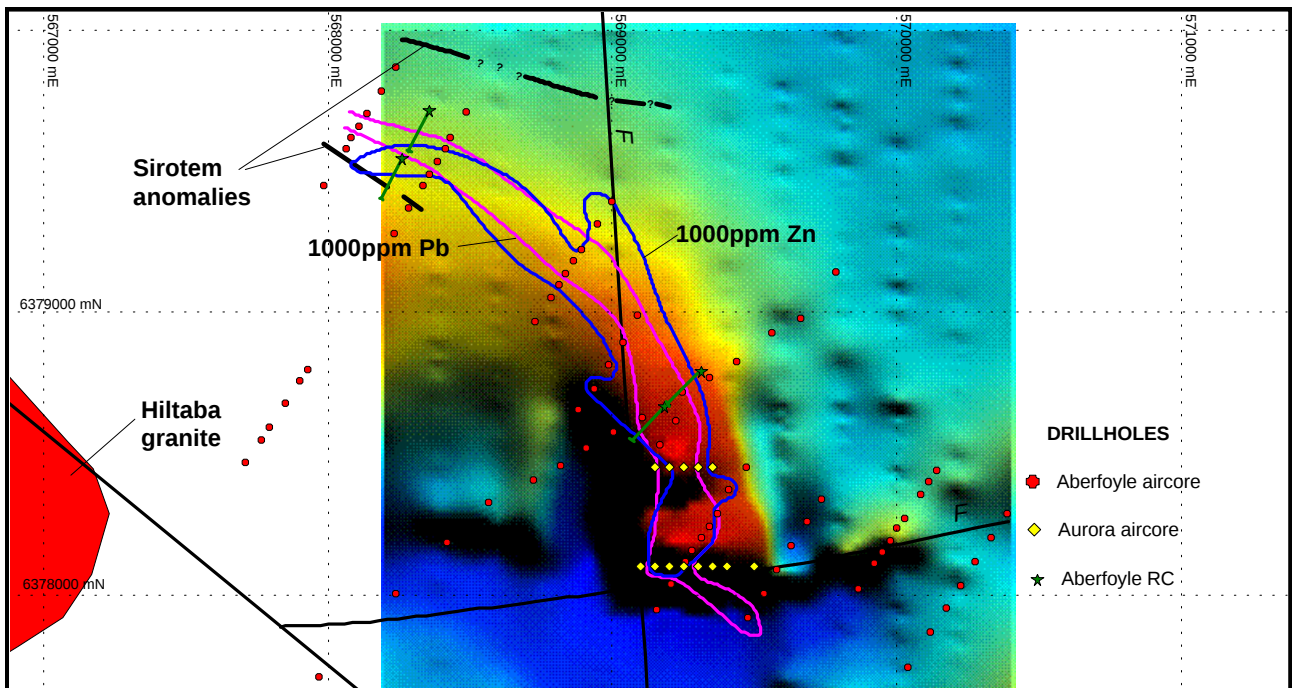


Figure 3 Tinhut Prospect: Ground magnetic image showing fault-bounded magnetic anomaly, Sirotem anomalies, previous drillholes and zones of anomalous bedrock Pb-Zn.

metasediment. It should be noted that most aircore drillholes that returned samples >0.1% for Pb and/or Zn contained low level anomalism for Pb (up to 130 ppm) and Zn (up to 230 ppm) in the top 6 metre composite sample. This suggests that regolith sampling, incorporating shallow auger holes may be a useful exploration tool, used in defining zones of underlying anomalous bedrock.

Further work at Paney and Tin Hut Prospects is considered low priority. The fact that no EM anomalies were delineated at the southern GRV margin at Paney Prospect, where geochemical Pb+Zn calcrete anomalies occur, seems to downgrade the potential for discovery of significant sulphide accumulations. Further work at Tin Hut Prospect would involve geophysical modelling and deep (RC) drilling, targeting the peaks of the fault bounded magnetic high.

4.0 EXPENDITURE

Expenditure for the reporting period totalled \$13,090 and for the 4 year term of the licence, \$189,199. Relinquishment of the licence was recommended.

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