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TASMANIA MINES LIMITED

GOLD IN THE KARA AREA

MAY 1994

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on behalf of

MCKEOWN MINING PTY LTD

for

TASMANIA MINES LIMITED

FOR COVERING LETTER
EL39/89
RL9001
1371P/M

SUMMARY

The suggestion that there may be economic concentrations of gold in the Kara skarns is not new.

Over 900 chip, percussion and drill core samples have been analysed for gold.

Gold analyses have been carried out using two assay methods: one based on aqua regia digestion, the other on fire assay. Of these two methods, only fire assay produces consistently reliable results. Aqua regia digestion can produce misleadingly low gold assays.

Anomalous gold values have been detected in parts of Kara No 1 and at Kara North 266 Zone where analyses have been by the fire assay.

At Kara North 266 Zone, a narrow gold anomaly, with a strike extent of 40m and a dip extent of about 30m, has been identified from diamond drill core sampling and should be further investigated. Within the anomaly gold grades up to 2.25 g/t have been detected. At this stage neither the lithology of the gold bearing zone nor its attitude relative to the drill holes are known so true widths for the zone cannot be estimated.

Assaying of existing diamond drill hole samples should be continued to further delineate the existing gold anomaly and identify any others.

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1 INTRODUCTION

The Housetop and Ringwood Granites have intruded a volume of rock containing Cambrian volcanics and Ordovician sedimentary rocks. The Cambrian volcanics are known to carry traces of gold. The intruded rocks are folded and faulted and, in part, converted to skarn.

A reappraisal, by the author, of existing gold assay data in 1993 led to the conclusion that gold does occur in Ordovician sequences in the Kara area and the search for economic concentrations of gold should continue. Consequently, parts of two diamond drill holes at Kara North were assayed for gold (McKeown, 1993) and a small, but geologically significant, gold anomaly has been identified on the Kara Consolidated Mine Lease.

This report summarises the existing gold analyses, and in the light of recent changes in the interpretation of the geology of the Kara area (McKeown, 1994), suggests how a cost effective search for gold in the Kara area should proceed. There is potential around the Ringwood and Housetop Granites for finding further concentrations of gold: a source of gold exists, a concentrating heat engine has intruded the source of gold, and favourable structures for the deposition of the concentrated gold are probable.

2 PREVIOUS WORK

The suggestion that there may be economic concentrations of gold in the Kara skarns is not new. Richards and Jones (1981) reported that ANZECO had analysed approximately 150 samples from EL17/68 for gold but no record of the results is held by Tasmines.

Richards and Jones (1981) considered that gold could occur in the Kara area, although they thought, based on their comparisons with the gold deposits of Nevada, that the possibility appeared low.

Simpson (1985) considered that the search for gold associated with tungsten should be a low priority project.

Nevertheless, Whitehead submitted 373 samples for gold and silver assays in 1987 before concluding that "sampling and analysis to date has shown no Au anomalism" (Whitehead, 1987). Despite this discouragement, he persisted with sampling and submitted 265 samples for gold and silver analysis in 1989; he reported this program without commenting on the assays which were less promising than those from the 1987 program (Whitehead, 1989).

3 GEOLOGICAL SETTING OF THE KARA SKARNS

3.1 REGIONAL GEOLOGY

A description of the regional geology of the Kara area can be found in McKeown (1994).

3.2 GEOLOGY OF THE KARA NO 1 AREA

The Kara orebodies are skarn deposits developed in Transition Series rocks and in the overlying Gordon Limestone. A cross section through Kara No 1 which illustrates the traditional geological model is shown in Figure 1 which is cross section through the Kara No 1 orezone and Figure 2 which is a geological plan of the Kara area. A more complete description can be found in McKeown (1994).

An appraisal of the existing geological data is the subject of a separate report (McKeown, 1994). One result of this appraisal, based on a coherent structural view of the geology of the Kara area, is the proposal that a structural trend exists to the west of the outcrop of the Housetop Granite. This structural trend occurs in the folded Palaeozoic sedimentary rocks, is marked by the presence of several granite dykes, contains all the known economic scheelite-magnetite skarns and the only identified gold anomaly in the Kara area, and exhibits mineral zoning along its length.

A second result of the appraisal is the suggestion that the Kara granite is not a continuous body but probably consists of a small, roughly circular stock, associated with and partly transected by a series of north striking, steeply dipping, granite dykes. This is in contrast with existing interpretations which show the Kara granite as a homogeneous mass.

A third result is the conclusion that, despite the lack of faulting shown on maps of the Kara area, it is likely that the area is extensively faulted.

Lastly, the appraisal raises the possibility that other styles of mineralisation, apart from skarn styles, could exist in the Kara area.

3.3 GEOLOGY OF THE KARA NO 2 AREA

The Kara No 2 skarns have been interpreted as skarns developed in roof pendants of Ordovician sedimentary rocks: these skarns all lie within the outcrop of the Housetop Granite. This interpretation is not disputed.

4 THE GOLD DATA

4.1 REGIONAL INDICATIONS OF THE PRESENCE OF GOLD

Prior to investigations by Tasmania Mines, there is no published record of gold occurring in the Kara area. In a summary of the occurrences of alluvial gold in Tasmania the alluvial fields near Moina and Wynyard are mentioned (Bottrill, 1991). The gold in these areas occurred in Tertiary gravels or Quaternary gravels reworked from sub-basaltic Tertiary gravels or Permian fluvio-glacial sediments. He considered that the ultimate sources of this alluvial gold were:

- quartz veins, associated with Devonian granitoids, in Ordovician sandstone,
- vein mineralisation in Cambrian porphyries,
- disseminated mineralisation in Cambrian porphyries, and
- quartz veins in pre-Carboniferous basement rocks.

In 1990, Tasmines carried out a regional pan concentrate sampling program within EL16/88 in an area immediately to the south and east of the Kara No 1 Consolidated Mine Lease. Samples were analysed, amongst other things, for gold. All assays, except one, returned values of <.05g/t Au. One sample, taken from a stream draining from an unmined skarn known as Sutton's Skarn, contained 0.74g/t Au (Whitehead, 1990). All chip samples taken in a follow up sampling program of Sutton's Skarn returned assays of <0.05g/t Au (however, refer to section 4.4 RELIABILITY OF GOLD ASSAY METHODS below).

4.2 SOURCES OF GOLD

The Housetop and Ringwood Granites have intruded not only the Ordovician sedimentary rocks which now contain the Kara No 1 and 2 skarns, but also sequences of Cambrian acid volcanics. These acid volcanics lie to the north and west of the Mount Read Volcanics. Stolz and Large (1990) reported that the gold content of altered volcanics within the Mount Read Volcanics ranges from about 1ppb in rhyolites to 11ppb in altered andesites and similar gold contents could be expected in the Cambrian volcanics in the Kara area.

The Devonian granites in the Kara area have consumed large quantities of Cambrian volcanics and have possibly mobilised the gold which would then be available for re-deposition in geologically favourable locations.

4.3 THE GOLD DATA SET

Whitehead (1989) suggested that gold in the Kara area could occur in four geological environments:

"- in chloritic/kaolinised alteration zones,
- in copper sulphides within skarns,
- in pyrrhotite skarn replacements,
- in carbonate host rocks."

He planned that the search for gold should be undertaken by analysis of existing samples, sampling of drainage systems in the Kara area, and the search for the potential host rocks listed above. Consequently, limited gold analyses of pan concentrates from streams east and south of Kara No 1, rock chip, percussion samples and diamond drill core were undertaken. The locations of the rock chip, percussion samples and drill core are given in Tables 1 to 3. The results of gold analysis of rock chip and drill core sampling are attached as Appendices 1 and 2.

Richards and Jones (1981) reported that ANZECO had analysed 150 samples for gold but the results were not held by Tasminex.

4.4 RELIABILITY OF GOLD ASSAY METHODS

Gold analyses have been carried out using two assay methods: one based on aqua regia digestion, the other on fire assay. Of these two methods, only fire assay produces consistently reliable results. Aqua regia digestion can produce misleadingly low gold assays.

The assay methods used for all analyses are not known at this stage. However, where it is known that aqua regia digestion was employed, no anomalous gold has been detected. By contrast, where it is known that fire assay was used, anomalous gold has been detected in some cases. In the coming year, attempts will be made to determine the assay method used for each assay; the success of this attempt will depend upon the existence of the appropriate records.

5 ASSAY RESULTS

5.1 INTRODUCTION

The analyses undertaken up until 1990 revealed that gold did exist in the Kara area. Two specific localities stood out as deserving further attention: Kara North 266 Zone around diamond drill hole D306 and Kara No 1 around holes D113, D204, D205 and D316.

By the end of 1993, only the Kara North 266 Zone had been investigated in more detail.

TABLE 1

KARA MINE AREA
DRILL CORE SAMPLES SUBMITTED FOR GOLD ANALYSIS

Kara N 266 Zone		D268	13.6	35.1	21	1993
		D292	31.4	50.7	19	1993
		D303	0.0	48.46	43	1987
		D306	3.66	33.83	28	1989
		D307	3.05	66.14	57	1989
		D516			11	1987
Kara N Mag Anomaly		D343			45	1987
	HM6	D317	59.0	80.6	1	1987
Companion Skarn		D514			33	1987
	HM5	D147	36.28	59.76	1	1987
Kara No 1		D205			16	1987
		D313	4.57	60.65	54	1987
		D314	0	39.0	39	1987
		D316	7.92	90.0	82	1987
	HM1	D238	39.3	51.0	1	1987
	HM2	D316	43.0	63.0		
		D113	51.83	71.65	1	1987
	HM3	D204	63.0	78.0	1	1987
	HM4	D205	68.0	85.0	1	1987
Kara South		D302	0.0	21.20	21	1989
Bob's Bonanza		D309	37.0	52.0	15	1989
		D500	12.55	18.50	7	1987
	HM7	D500	13.50	17.70	1	1987
		D500			7	1987
Eastern Ridge		D202	49.0	55.0		
			62.0	84.6		
			84.6	115.0	39	1989
		D203	72.0	88.0		
			104.0	115.0	27	1989
		D273	92.0	136.0	42	1987
LS		D326	46.0	69.0	24	1989
		D330	64.0	83.0	19	1989
		D333	41.0	77.0	35	1989
		D510			5	1987

Note that samples HM1 to HM7 are composite samples and that HM2 is a composite of two drill holes as indicated; details of these composite samples are given in Appendix 3.

TABLE 2

KARA MINE AREA
PERCUSSION SAMPLES SUBMITTED FOR GOLD ANALYSIS

L1	L1/23-28			6	1987
Hampshire Silver Mine	SMEL1	0.0	17.0	6	1990
	SMEL5	0.0	17.0	5	1990

TABLE 3

KARA MINE AREA
CHIP SAMPLES SUBMITTED FOR GOLD ANALYSIS

Kara No 2 South	15	K2S/G1	K2S/G15	1989
Kara No 2 East	20	K2E/G1	K2E/G20	1989
Kara No 2 Main	40	K2M/G1	K2M/G40	1989
L4	21	L4/G1	L4/G21	1989
Hampshire Magnetite Skarn	20	HM/G1	HM/G20	1989
L13	20	L13/G1	L13/G20	1989
Suttons Skarn	17	SS/G1	SS/G17	1989
Hampshire Silver Mine	5	SM1	SM5	1981
	29	HS/G1	HS/G30	1989
Ringwood Granite Gossan	6	GP1	GP6	1981

5.2 KARA NORTH 266 ZONE

Assaying of D306, on section 7020N, revealed a zone from 3.66m to 17.68m which contained detectable gold. The zone extends from:

3.66m to 17.68m	14.02m down hole	0.38 g/t Au

and includes narrower, higher grade zones:

12.80m to 17.68m	4.88m down hole	0.85 g/t Au
16.76m to 17.68m	0.92m down hole	2.25 g/t Au

These analyses were performed using fire assay.

D292 is also drilled on section 7020N: see Figure 3. Assaying of the part of D292 vertically below the gold intersection in D306 was undertaken in late 1993 to reveal the following intersection:

31.40m to 50.70m	19.30m down hole	0.38 g/t Au

and including narrower, higher grade zones:

31.40m to 34.40m	3.00m down hole	0.69 g/t Au
33.40m to 34.40m	1.00m down hole	1.48 g/t Au

These analyses were performed using fire assay.

D268, drilled on section 7060N, revealed a zone from 13.6m to 31.1m which contained detectable gold. The zone extends from:

13.6m to 34.1m	20.5m down hole	0.13 g/t Au

and includes a narrower, slightly higher grade zone:

13.6m to 19.1m	5.5m down hole	0.20 g/t Au

Pending an examination of the drill core, neither the lithology of the gold bearing zone nor its attitude relative to the drill holes are known at this stage so true widths for the zone cannot be estimated. No connection between gold bearing zones in the drill holes is shown on Figure 3 and any connection will only be confirmed or disproved by further work. Lithological correlation between the gold intersections in the three holes cannot be made.

Bearing in mind these reservations, a narrow gold anomaly, with a strike extent of 40m and a dip extent of about 30m, has been identified and should be further investigated.

5.3 KARA NO 1

In 1986 seven samples composited from drill core were prepared for preliminary laboratory tests to determine the suitability of Tasmines ore for the preparation of dense medium magnetite for use in coal washing. Details of the make up of the samples are given in Appendix 3. The composite samples were submitted for gold analysis in 1987 and three of the seven samples contained gold in excess of 0.10 g/t:

HM2/86	D113	51.83m to 71.65m		
and	D316	43.0 m to 63.0 m	39.82m down hole	0.27 g/t Au
HM3/86	D204	63.0 m to 78.0 m	15.0 m down hole	0.18 g/t Au
HM4/86	D205	68.0 m to 85.0 m	17.0 m down hole	0.12 g/t Au

These analyses were performed using aqua regia digestion.

These anomalous gold contents were not followed up. At this stage the distribution of gold in these samples is not known: more detailed assaying to determine whether, and where, higher grade gold zones exist.

6 GOLD MODELS

No visible gold has been reported from the Kara area, either by prospectors, by sampling of the drainage system or from petrological studies. Richards and Jones (1981), estimating the possibility of gold deposits occuring in the Kara area, based on their understanding of gold occurrences in Nevada, suggested that Carlin style gold may exist in the Kara area, although the possibility was low.

The results of the sampling program so far, indicate the presence of gold in a known skarn environment and a Carlin style model seems the most probable: see Appendix 4. Nevertheless, the possibilities that gold may occur in quartz veins and/or fault zones should be borne in mind.

7 THE FUTURE

Assaying of existing diamond drill hole samples should be continued to further delineate the existing gold anomaly and identify any others. It may be necessary to repeat assays on samples already tested using the relatively unreliable aqua regia digestion method.

One aim of the assaying program should be to locate the anomalous gold zone in fresh rock so that the host lithology and, perhaps, the gold bearing species, can be identified.

Surface sampling above the identified gold anomaly should be undertaken in attempt to identify the anomaly at outcrop.

REFERENCES

Bottrill, R.S., 1991. Mineral resources of Tasmania 11, Alluvial gold, Tasmania Division of Mines and Mineral Resources

McKeown, M.V., 1993. Gold assays in DH29. Tasmania Mines Limited memorandum, unpublished report.

McKeown, M.V., 1994. A review of the geology of the Kara area. Tasmania Mines Ltd, unpublished report.

Richards, D. & Jones, M., 1981. Evaluation of Kara properties, Gold Fields Exploration Pty Ltd, unpublished report.

Simpson, D.C., 1985. Assessment of exploration potential of EL 17/68,Kara properties for Tasminex NL, unpublished report.

Stolz, J. and Large, R.R., 1990. The source of the gold in western Tasmanian VMS deposits in Geological Society of Australia Abstracts, Gondwana; terranes and resources, Tenth Australian Geological Convention, Hobart, 1990.

Whitehead, C.H., 1987. Exploration Licence 17/68, annual report 1986/87, Tasmania Mines Ltd unpublished report.

Whitehead, C.H., 1989. Exploration Licence 17/68, annual report 1988/89, Tasmania Mines Ltd unpublished report.

Whitehead, C.H., 1990. EL16/88,- Highwood Hill N.W. Tasmania - relinquishment report, September 1990, Tasmania Mines Ltd unpublished report.

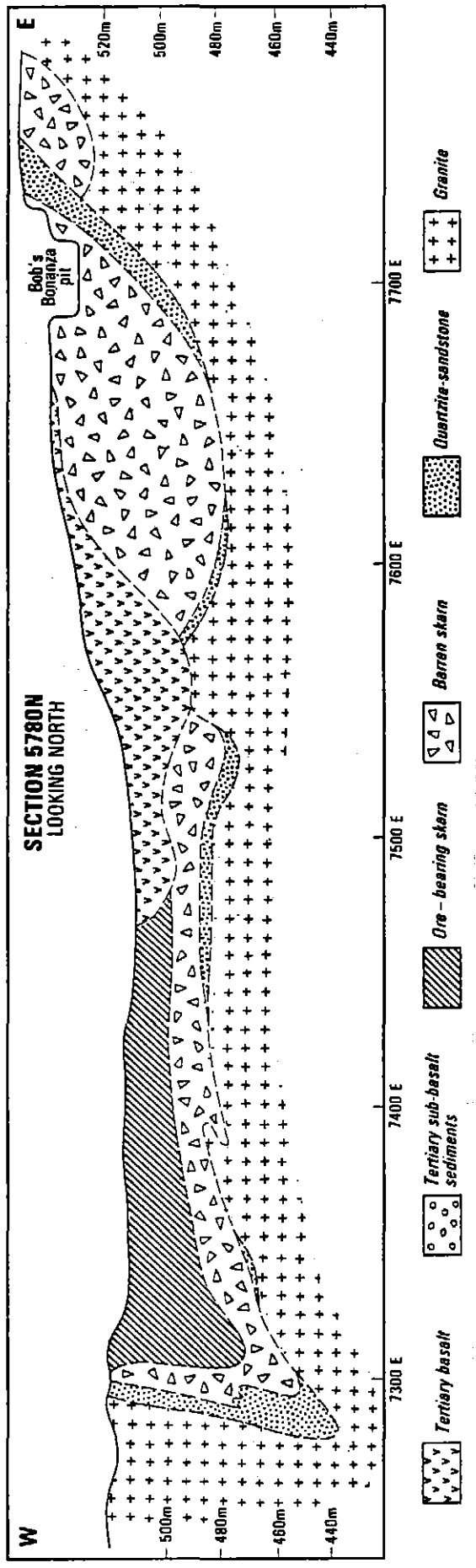

FIGURE 1: Schematic cross section through the Kara No 1 deposit (Whitehead)

APPENDIX 1

ASSAY RESULTS OF ROCK CHIP SAMPLING

SAMPLE NUMBER	DESCRIPTION		g/t Au	ASSAY METHOD
GP1	Ringwood Granite gossan	gossan	<0.05	fire?
GP2	Ringwood Granite gossan	gossan	<0.05	fire?
GP3	Ringwood Granite gossan	gossan	<0.05	fire?
GP4	Ringwood Granite gossan	gossan	<0.05	fire?
GP5	Ringwood Granite gossan	gossan	<0.05	fire?
GP6	Ringwood Granite gossan	gossan	<0.05	fire?
HM/G1	Hampshire magnetite skarn	magnetite	<0.05	?
HM/G2	Hampshire magnetite skarn	magnetite	<0.05	?
HM/G3	Hampshire magnetite skarn	magnetite	<0.05	?
HM/G4	Hampshire magnetite skarn	magnetite	<0.05	?
HM/G5	Hampshire magnetite skarn	magnetite	<0.05	?
HM/G6	Hampshire magnetite skarn	magnetite	<0.05	?
HM/G7	Hampshire magnetite skarn	magnetite	<0.05	?
HM/G8	Hampshire magnetite skarn	magnetite	<0.05	?
HM/G9	Hampshire magnetite skarn	magnetite	<0.05	?
HM/G10	Hampshire magnetite skarn	magnetite	<0.05	?
HM/G11	Hampshire magnetite skarn	magnetite	<0.05	?
HM/G12	Hampshire magnetite skarn	magnetite	<0.05	?
HM/G13	Hampshire magnetite skarn	magnetite	<0.05	?
HM/G14	Hampshire magnetite skarn	magnetite	0.12	?
HM/G15	Hampshire magnetite skarn	magnetite	<0.05	?
HM/G16	Hampshire magnetite skarn	magnetite	<0.05	?
HM/G17	Hampshire magnetite skarn	magnetite	<0.05	?
HM/G18	Hampshire magnetite skarn	magnetite	<0.05	?
HM/G19	Hampshire magnetite skarn	magnetite	<0.05	?
HM/G20	Hampshire magnetite skarn	magnetite	<0.05	?
HS/G1	Hampshire silver mine		<0.05	?
HS/G2	Hampshire silver mine		<0.05	?
HS/G3	Hampshire silver mine		<0.05	?
HS/G4	Hampshire silver mine		<0.05	?
HS/G5	Hampshire silver mine		<0.05	?
HS/G6	Hampshire silver mine		<0.05	?
HS/G7	Hampshire silver mine		<0.05	?
HS/G8	Hampshire silver mine		<0.05	?
HS/G9	Hampshire silver mine		<0.05	?
HS/G10	Hampshire silver mine		<0.05	?
HS/G11	Hampshire silver mine		<0.05	?
HS/G12	Hampshire silver mine		<0.05	?
HS/G13	Hampshire silver mine		<0.05	?
HS/G14	Hampshire silver mine		<0.05	?
HS/G15	Hampshire silver mine		<0.05	?
HS/G16	Hampshire silver mine		<0.05	?
HS/G17	Hampshire silver mine		<0.05	?
HS/G18	Hampshire silver mine		<0.05	?
HS/G19	Hampshire silver mine		<0.05	?
HS/G20	Hampshire silver mine		<0.05	?
HS/G21	Hampshire silver mine		<0.05	?
HS/G22	Hampshire silver mine		<0.05	?
HS/G23	Hampshire silver mine		<0.05	?
HS/G24	Hampshire silver mine		<0.05	?
HS/G25	Hampshire silver mine		<0.05	?
HS/G26	Hampshire silver mine		<0.05	?
HS/G27	Hampshire silver mine		<0.05	?
HS/G28	Hampshire silver mine		<0.05	?
HS/G29	Hampshire silver mine		<0.05	?
HS/G30	Hampshire silver mine		<0.05	?

K2E/G1	Kara No 2 East	magnetite	<0.05	?
K2E/G2	Kara No 2 East	magnetite	<0.05	?
K2E/G3	Kara No 2 East	magnetite	<0.05	?
K2E/G4	Kara No 2 East	magnetite	<0.05	?
K2E/G5	Kara No 2 East	magnetite	0.10	?
K2E/G6	Kara No 2 East	magnetite	<0.05	?
K2E/G7	Kara No 2 East	magnetite	<0.05	?
K2E/G8	Kara No 2 East	magnetite	0.10	?
K2E/G9	Kara No 2 East	magnetite	-	no assay
K2E/G10	Kara No 2 East	magnetite	-	no assay
K2E/G11	Kara No 2 East	magnetite	<0.1	acid
K2E/G12	Kara No 2 East	magnetite	<0.1	acid
K2E/G13	Kara No 2 East	magnetite	<0.1	acid
K2E/G14	Kara No 2 East	magnetite	<0.1	acid
K2E/G15	Kara No 2 East	magnetite	<0.1	acid
K2E/G16	Kara No 2 East	magnetite	<0.1	acid
K2E/G17	Kara No 2 East	magnetite	<0.1	acid
K2E/G18	Kara No 2 East	magnetite	<0.1	acid
K2E/G19	Kara No 2 East	magnetite	<0.1	acid
K2E/G20	Kara No 2 East	magnetite	<0.1	acid
K2M/G1	Kara No 2 Main	magnetite	<0.1	acid
K2M/G2	Kara No 2 Main	magnetite	<0.1	acid
K2M/G3	Kara No 2 Main	magnetite	<0.1	acid
K2M/G4	Kara No 2 Main	magnetite	<0.1	acid
K2M/G5	Kara No 2 Main	magnetite	<0.1	acid
K2M/G6	Kara No 2 Main	magnetite	<0.1	acid
K2M/G7	Kara No 2 Main	magnetite	<0.1	acid
K2M/G8	Kara No 2 Main	magnetite	<0.1	acid
K2M/G9	Kara No 2 Main	magnetite	<0.1	acid
K2M/G10	Kara No 2 Main	magnetite	<0.1	acid
K2M/G11	Kara No 2 Main	magnetite	<0.1	acid
K2M/G12	Kara No 2 Main	magnetite	<0.1	acid
K2M/G13	Kara No 2 Main	magnetite	<0.1	acid
K2M/G14	Kara No 2 Main	magnetite	<0.1	acid
K2M/G15	Kara No 2 Main	magnetite	<0.1	acid
K2M/G16	Kara No 2 Main	magnetite	<0.1	acid
K2M/G17	Kara No 2 Main	magnetite	<0.1	acid
K2M/G18	Kara No 2 Main	magnetite	<0.1	acid
K2M/G19	Kara No 2 Main	magnetite	<0.1	acid
K2M/G20	Kara No 2 Main	magnetite	<0.1	acid
K2M/G21	Kara No 2 Main	magnetite	<0.1	acid
K2M/G22	Kara No 2 Main	magnetite	<0.1	acid
K2M/G23	Kara No 2 Main	magnetite	<0.1	acid
K2M/G24	Kara No 2 Main	magnetite	<0.1	acid
K2M/G25	Kara No 2 Main	magnetite	<0.1	acid
K2M/G26	Kara No 2 Main	magnetite	<0.1	acid
K2M/G27	Kara No 2 Main	magnetite	<0.1	acid
K2M/G28	Kara No 2 Main	magnetite	<0.1	acid
K2M/G29	Kara No 2 Main	magnetite	<0.05	fire?
K2M/G30	Kara No 2 Main	magnetite	<0.05	fire?
K2M/G31	Kara No 2 Main	magnetite	<0.05	fire?
K2M/G32	Kara No 2 Main	magnetite	<0.05	fire?
K2M/G33	Kara No 2 Main	magnetite	<0.05	fire?
K2M/G34	Kara No 2 Main	magnetite	<0.05	fire?
K2M/G35	Kara No 2 Main	magnetite	<0.05	fire?
K2M/G36	Kara No 2 Main	magnetite	<0.05	fire?
K2M/G37	Kara No 2 Main	magnetite	<0.05	fire?
K2M/G38	Kara No 2 Main	magnetite	<0.05	fire?
K2M/G39	Kara No 2 Main	magnetite	<0.05	fire?
K2M/G40	Kara No 2 Main	magnetite	<0.05	fire?

K2S/G1	Kara No 2 South	magnetite	<0.1	acid
K2S/G2	Kara No 2 South	magnetite	<0.1	acid
K2S/G3	Kara No 2 South	magnetite	<0.1	acid
K2S/G4	Kara No 2 South	magnetite	<0.1	acid
K2S/G5	Kara No 2 South	magnetite	<0.1	acid
K2S/G6	Kara No 2 South	magnetite	<0.1	acid
K2S/G7	Kara No 2 South	magnetite	<0.1	acid
K2S/G8	Kara No 2 South	magnetite	<0.1	acid
K2S/G9	Kara No 2 South	magnetite	<0.1	acid
K2S/G10	Kara No 2 South	magnetite	<0.1	acid
K2S/G11	Kara No 2 South	magnetite	<0.1	acid
K2S/G12	Kara No 2 South	magnetite	<0.1	acid
K2S/G13	Kara No 2 South	magnetite	<0.1	acid
K2S/G14	Kara No 2 South	magnetite	<0.1	acid
K2S/G15	Kara No 2 South	magnetite	<0.1	acid
L4/G1	Location L4		<0.05	fire?
L4/G2	Location L4		<0.05	fire?
L4/G3	Location L4		<0.05	fire?
L4/G4	Location L4		<0.05	fire?
L4/G5	Location L4		<0.05	fire?
L4/G6	Location L4		<0.05	fire?
L4/G7	Location L4		0.05	fire?
L4/G8	Location L4		<0.05	fire?
L4/G9	Location L4		<0.05	fire?
L4/G10	Location L4		<0.05	fire?
L4/G11	Location L4		<0.05	fire?
L4/G12	Location L4		<0.05	fire?
L4/G13	Location L4		0.06	fire?
L4/G14	Location L4		<0.05	fire?
L4/G15	Location L4		0.07	fire?
L4/G16	Location L4		<0.05	fire?
L4/G17	Location L4		<0.05	fire?
L4/G18	Location L4		<0.05	fire?
L4/G19	Location L4		0.10	fire?
L4/G20	Location L4		<0.05	fire?
L4/G21	Location L4		<0.05	fire?
L13/G1	Location L13		<0.05	fire?
L13/G2	Location L13		<0.05	fire?
L13/G3	Location L13		<0.05	fire?
L13/G4	Location L13		<0.05	fire?
L13/G5	Location L13		<0.05	fire?
L13/G6	Location L13		<0.05	fire?
L13/G7	Location L13		<0.05	fire?
L13/G8	Location L13		<0.05	fire?
L13/G9	Location L13		<0.05	fire?
L13/G10	Location L13		<0.05	fire?
L13/G11	Location L13		<0.05	fire?
L13/G12	Location L13		<0.05	fire?
L13/G13	Location L13		<0.05	fire?
L13/G14	Location L13		<0.05	fire?
L13/G15	Location L13		<0.05	fire?
L13/G16	Location L13		<0.05	fire?
L13/G17	Location L13		<0.05	fire?
L13/G18	Location L13		<0.05	fire?
L13/G19	Location L13		<0.05	fire?
L13/G20	Location L13		<0.05	fire?

APPENDIX 2

ASSAY RESULTS OF DIAMOND DRILL CORE SAMPLING

895021

DDH NUMBER	SAMPLE NUMBER	FROM	TO	g/t Au	ASSAY METHOD
D202	D202/15	49.0	50.0	<0.05	?
D202	D202/16	50.0	51.0	<0.05	?
D202	D202/17	51.0	52.0	<0.05	?
D202	D202/18	52.0	53.0	<0.05	?
D202	D202/19	53.0	54.0	<0.05	?
D202	D202/20	54.0	55.0	<0.05	?
D202	D202/21	62.0	63.0	<0.05	?
D202	D202/22	63.0	64.0	<0.05	?
D202	D202/23	64.0	65.0	<0.05	?
D202	D202/24	65.0	66.0	<0.05	?
D202	D202/25	66.0	67.0	<0.05	?
D202	D202/26	67.0	68.0	<0.05	?
D202	D202/27	68.0	69.0	<0.05	?
D202	D202/28	69.0	70.0	<0.05	?
D202	D202/29	70.0	71.0	<0.05	?
D202	D202/30	71.0	72.0	<0.05	?
D202	D202/31	72.0	73.0	<0.05	?
D202	D202/32	73.0	74.0	<0.05	?
D202	D202/33	74.0	75.0	<0.05	?
D202	D202/34	75.0	76.0	<0.05	?
D202	D202/35	76.0	77.0	<0.05	?
D202	D202/36	77.0	78.0	<0.05	?
D202	D202/37	78.0	79.0	<0.05	?
D202	D202/38	79.0	80.0	<0.05	?
D202	D202/39	80.0	81.0	<0.05	?
D202	D202/40	81.0	82.0	<0.05	?
D202	D202/41	82.0	83.0	<0.05	?
D202	D202/42	83.0	84.0	<0.05	?
D202	D202/43	84.0	84.6	<0.05	?
D202	D202/44	105.0	106.0	<0.05	?
D202	D202/45	106.0	107.0	<0.05	?
D202	D202/46	107.0	108.0	<0.05	?
D202	D202/47	108.0	109.0	<0.05	?
D202	D202/48	109.0	110.0	<0.05	?
D202	D202/49	110.0	111.0	<0.05	?
D202	D202/50	111.0	112.0	<0.05	?
D202	D202/51	112.0	113.0	<0.05	?
D202	D202/52	113.0	114.0	<0.05	?
D202	D202/53	114.0	115.0	<0.05	?

895022

DDH NUMBER	SAMPLE NUMBER	FROM	TO	g/t Au	ASSAY METHOD
D203	D203/54	72.0	73.0	<0.05	?
D203	D203/55	73.0	74.0	0.06	?
D203	D203/56	74.0	75.0	<0.05	?
D203	D203/57	75.0	76.0	0.07	?
D203	D203/58	76.0	77.0	<0.05	?
D203	D203/59	77.0	78.0	<0.05	?
D203	D203/60	78.0	79.0	<0.05	?
D203	D203/61	79.0	80.0	<0.05	?
D203	D203/62	80.0	81.0	<0.05	?
D203	D203/63	81.0	82.0	<0.05	?
D203	D203/64	82.0	83.0	<0.05	?
D203	D203/65	83.0	84.0	<0.05	?
D203	D203/66	84.0	85.0	<0.05	?
D203	D203/67	85.0	86.0	<0.05	?
D203	D203/68	86.0	87.0	<0.05	?
D203	D203/69	87.0	88.0	<0.05	?
D203	D203/70	no sample		no sample	
D203	D203/71	104.0	105.0	<0.05	?
D203	D203/72	105.0	106.0	0.08	?
D203	D203/73	106.0	107.0	<0.05	?
D203	D203/74	107.0	108.0	no sample	
D203	D203/75	108.0	109.0	0.28	?
D203	D203/76	109.0	110.0	<0.05	?
D203	D203/77	110.0	111.0	<0.05	?
D203	D203/78	111.0	112.0	<0.05	?
D203	D203/79	112.0	113.0	<0.05	?
D203	D203/80	113.0	114.0	<0.05	?
D203	D203/81	114.0	115.0	<0.05	?

895023

DDH NUMBER	SAMPLE NUMBER	FROM	TO	g/t Au	ASSAY METHOD
D205	1	?	?	<0.005	acid
D205	2	?	?	<0.005	acid
D205	3	?	?	<0.005	acid
D205	4	?	?	<0.005	acid
D205	5	?	?	<0.005	acid
D205	6	?	?	<0.005	acid
D205	7	?	?	<0.005	acid
D205	8	?	?	<0.005	acid
D205	9	?	?	<0.005	acid
D205	10	?	?	0.005	acid
D205	11	?	?	<0.005	acid
D205	12	?	?	0.050	acid
D205	13	?	?	0.010	acid
D205	14	?	?	0.005	acid
D205	15	?	?	0.010	acid
D205	16	?	?	<0.005	acid

DDH NUMBER	SAMPLE NUMBER	FROM	TO	g/t Au	ASSAY METHOD
D268	268678	13.6	14.1	0.32	fire
D268	268679	14.1	15.1	0.20	fire
D268	268680	15.1	16.1	0.14	fire
D268	268681	16.1	17.1	0.12	fire
D268	268682	17.1	18.1	0.36	fire
D268	268683	18.1	19.1	0.18	fire
D268	268684	19.1	20.1	<0.05	fire
D268	268685	20.1	21.1	0.24	fire
D268	268686	21.1	23.1	<0.05	fire
D268	268687	23.1	24.1	<0.05	fire
D268	268688	24.1	25.1	<0.05	fire
D268	268689	25.1	26.1	0.24	fire
D268	268690	26.1	27.1	0.20	fire
D268	268691	27.1	28.1	0.16	fire
D268	268692	28.1	29.1	0.20	fire
D268	268693	29.1	30.1	0.16	fire
D268	268694	30.1	31.1	<0.05	fire
D268	268695	31.1	32.1	<0.05	fire
D268	268696	32.1	33.1	0.18	fire
D268	268697	33.1	34.1	0.24	fire
D268	268698	34.1	35.1	<0.05	fire

895025

DDH NUMBER	SAMPLE NUMBER	FROM	TO	g/t Au	ASSAY METHOD
D273	273276	92.0	93.0	<0.005	AMDEL A/C 20080
D273	273277	93.0	94.0	<0.005	?
D273	273278	94.0	95.0	0.005	?
D273	273279	95.0	96.0	<0.005	?
D273	273280	96.0	97.0	0.005	?
D273	273281	97.0	99.0	0.015	?
D273	273282	99.0	100.0	0.125	?
D273	273283	100.0	101.0	0.310	?
D273	273284	101.0	102.0	0.005	?
D273	273285	102.0	103.0	0.005	?
D273	273286	103.0	104.0	0.030	?
D273	273287	104.0	105.0	0.015	?
D273	273288	105.0	106.0	<0.005	?
D273	273289	106.0	107.0	0.005	?
D273	273290	107.0	108.0	0.010	?
D273	273291	108.0	109.0	0.055	?
D273	273292	109.0	110.0	0.085	?
D273	273293	110.0	111.0	0.025	?
D273	273294	111.0	112.0	0.005	?
D273	273295	112.0	113.0	0.015	?
D273	273296	113.0	114.0	0.005	?
D273	273297	114.0	115.0	0.010	?
D273	273298	115.0	116.0	0.015	?
D273	273299	116.0	117.0	<0.005	?
D273	273300	117.0	118.0	0.050	?
D273	273301	118.0	119.0	0.005	?
D273	273302	119.0	120.0	<0.005	?
D273	273303	120.0	121.0	<0.005	?
D273	273304	121.0	122.0	0.030	?
D273	273305	122.0	123.0	0.065	?
D273	273306	123.0	124.0	0.235	?
D273	273307	124.0	125.0	<0.005	?
D273	273308	125.0	126.0	<0.005	?
D273	273309	126.0	127.0	<0.005	?
D273	273310	127.0	128.0	n.s.	
D273	273311	128.0	129.0	0.105	?
D273	273312	129.0	130.0	0.135	?
D273	273313	130.0	131.0	0.040	?
D273	273314	131.0	132.0	0.075	?
D273	273315	132.0	133.0	0.005	?
D273	273316	133.0	134.0	0.075	?
D273	273317	134.0	135.0	0.050	?

DDH NUMBER	SAMPLE NUMBER	FROM	TO	g/t Au	ASSAY METHOD
D292	2921055	31.4	32.4	0.40	fire
D292	2921056	32.4	33.4	0.18	fire
D292	2921057	33.4	34.4	1.48	fire
D292	2921058	34.4	35.4	0.08	fire
D292	2921059	35.4	36.4	0.14	fire
D292	2921060	36.4	37.4	0.08	fire
D292	2921061	37.4	38.4	0.18	fire
D292	2921062	38.4	39.4	0.12	fire
D292	2921063	39.4	40.4	0.18	fire
D292	2921064	40.4	41.4	0.22	fire
D292	2921065	41.4	42.4	0.10	fire
D292	2921066	42.4	43.4	0.26	fire
D292	2921067	43.4	44.4	0.10	fire
D292	2921068	44.4	45.4	0.14	fire
D292	2921069	45.4	46.4	0.14	fire
D292	2921044	46.4	47.4	0.18	fire
D292	2921045	47.4	48.4	0.16	fire
D292	2921046	48.4	49.4	0.16	fire
D292	2921047	49.4	50.7	0.20	fire

895027

DDH NUMBER	SAMPLE NUMBER	FROM	TO	g/t Au	ASSAY METHOD
D302	D302/1	0.0	1.0	<0.05	?
D302	D302/2	1.0	2.0	0.10	?
D302	D302/3	2.0	3.0	<0.05	?
D302	D302/4	3.0	4.0	<0.05	?
D302	D302/5	4.0	5.0	<0.05	?
D302	D302/6	5.0	6.0	<0.05	?
D302	D302/7	6.0	7.0	<0.05	?
D302	D302/8	7.0	8.0	0.12	?
D302	D302/9	8.0	9.0	<0.05	?
D302	D302/10	9.0	10.0	<0.05	?
D302	D302/11	10.0	11.0	0.06	?
D302	D302/12	11.0	12.0	<0.05	?
D302	D302/13	12.0	13.0	0.05	?
D302	D302/14	13.0	14.0	0.05	?
D302	D302/15	14.0	15.0	<0.05	?
D302	D302/16	15.0	16.0	<0.05	?
D302	D302/17	16.0	17.0	<0.05	?
D302	D302/18	17.0	18.0	0.09	?
D302	D302/19	18.0	19.0	0.07	?
D302	D302/20	19.0	20.0	0.06	?
D302	D302/21	20.0	21.2	0.09	?

SAMPLES FROM D303 WERE SUBMITTED FOR GOLD ANALYSIS

BUT NO ASSAY RESULTS CAN BE FOUND

895029

DDH NUMBER	SAMPLE NUMBER	FROM	TO	g/t Au	ASSAY METHOD
D306	D306/1	3.66	5.18	0.09	fire
D306	D306/2	5.18	6.71	0.07	fire
D306	D306/3	6.71	8.23	0.17	fire
D306	D306/4	8.23	9.75	0.12	fire
D306	D306/5	9.75	11.28	0.16	fire
D306	D306/6	11.28	12.80	0.14	fire
D306	D306/7	12.80	14.33	0.37	fire
D306	D306/8	14.33	14.94	0.43	fire
D306	D306/9	14.94	15.85	0.84	fire
D306	D306/10	15.85	16.76	0.55	fire
D306	D306/11	16.76	18.59	2.25	fire
D306	D306/12	18.59	19.51	<0.05	fire
D306	D306/13	19.51	20.12	<0.05	fire
D306	D306/14	20.12	21.03	<0.05	fire
D306	D306/15	21.03	21.95	<0.05	fire
D306	D306/16	21.95	22.86	<0.05	fire
D306	D306/17	22.86	23.77	<0.05	fire
D306	D306/18	23.77	24.69	<0.05	fire
D306	D306/19	24.69	25.60	<0.05	fire
D306	D306/20	25.60	26.52	<0.05	fire
D306	D306/21	26.52	27.43	0.11	fire
D306	D306/22	27.43	28.34	<0.05	fire
D306	D306/23	28.34	29.26	<0.05	fire
D306	D306/24	29.26	30.18	<0.05	fire
D306	D306/25	30.18	31.09	0.19	fire
D306	D306/26	31.09	32.00	<0.05	fire
D306	D306/27	32.00	32.92	<0.05	fire
D306	D306/28	32.92	33.83	<0.05	fire

895030

DDH NUMBER	SAMPLE NUMBER	FROM	TO	g/t Au	ASSAY METHOD
D307	D307/1	3.05	4.00	<0.05	fire
D307	D307/2	4.00	5.00	<0.05	fire
D307	D307/3	5.00	6.00	<0.05	fire
D307	D307/4	6.00	7.00	<0.05	fire
D307	D307/5	7.00	11.00	<0.05	fire
D307	D307/6	11.00	12.00	<0.05	fire
D307	D307/7	12.00	14.00	<0.05	fire
D307	D307/8	14.00	16.00	<0.05	fire
D307	D307/9	16.00	17.00	<0.05	fire
D307	D307/10	17.00	18.00	<0.05	fire
D307	D307/11	18.00	19.00	<0.05	fire
D307	D307/12	19.00	20.00	<0.05	fire
D307	D307/13	20.00	21.00	<0.05	fire
D307	D307/14	21.00	22.00	<0.05	fire
D307	D307/15	22.00	23.00	<0.05	fire
D307	D307/16	23.00	24.00	<0.05	fire
D307	D307/17	24.00	25.00	<0.05	fire
D307	D307/18	25.00	26.00	<0.05	fire
D307	D307/19	26.00	27.00	<0.05	fire
D307	D307/20	27.00	28.00	<0.05	fire
D307	D307/21	28.00	29.00	<0.05	fire
D307	D307/22	29.00	30.00	<0.05	fire
D307	D307/23	30.00	31.00	<0.05	fire
D307	D307/24	31.00	32.00	<0.05	fire
D307	D307/25	32.00	33.00	<0.05	fire
D307	D307/26	33.00	34.00	<0.05	fire
D307	D307/27	34.00	35.00	<0.05	fire
D307	D307/28	35.00	36.00	<0.05	fire
D307	D307/29	36.00	37.00	<0.05	fire
D307	D307/30	37.00	38.00	<0.05	fire
D307	D307/31	38.00	39.00	<0.05	fire
D307	D307/32	39.00	40.00	<0.05	fire
D307	D307/33	40.00	41.00	<0.05	fire
D307	D307/34	41.00	42.00	<0.05	fire
D307	D307/35	42.00	43.00	<0.05	fire
D307	D307/36	43.00	44.00	<0.05	fire
D307	D307/37	44.00	45.00	<0.05	fire
D307	D307/38	45.00	46.00	<0.05	fire
D307	D307/39	46.00	47.00	<0.05	fire
D307	D307/40	47.00	48.00	<0.05	fire
D307	D307/41	48.00	49.00	<0.05	fire
D307	D307/42	49.00	50.00	<0.05	fire
D307	D307/43	50.00	51.00	<0.05	fire
D307	D307/44	51.00	52.00	<0.05	fire
D307	D307/45	52.00	53.00	<0.05	fire
D307	D307/46	53.00	54.00	<0.05	fire
D307	D307/47	54.00	55.00	<0.05	fire
D307	D307/48	55.00	56.00	<0.05	fire
D307	D307/49	56.00	57.00	<0.05	fire
D307	D307/50	57.00	58.00	<0.05	fire
D307	D307/51	58.00	59.00	<0.05	fire
D307	D307/52	59.00	60.00	<0.05	fire
D307	D307/53	60.00	61.00	<0.05	fire
D307	D307/54	61.00	62.00	<0.05	fire
D307	D307/55	62.00	63.00	<0.05	fire
D307	D307/56	63.00	64.00	<0.05	fire
D307	D307/57	64.00	65.00	<0.05	fire
D307	D307/58	65.00	66.14	<0.05	fire

DDH NUMBER	sample number	FROM	TO	g/t Au	ASSAY METHOD
D309	D309/1	37.0	38.0	<0.05	?
D309	D309/2	38.0	39.0	<0.05	?
D309	D309/3	39.0	40.0	<0.05	?
D309	D309/4	40.0	41.0	<0.05	?
D309	D309/5	41.0	42.0	<0.05	?
D309	D309/6	42.0	43.0	<0.05	?
D309	D309/7	43.0	44.0	<0.05	?
D309	D309/8	44.0	45.0	<0.05	?
D309	D309/9	45.0	46.0	<0.05	?
D309	D309/10	46.0	47.0	<0.05	?
D309	D309/11	47.0	48.0	<0.05	?
D309	D309/12	48.0	49.0	<0.05	?
D309	D309/13	49.0	50.0	<0.05	?
D309	D309/14	50.0	51.0	<0.05	?
D309	D309/15	51.0	52.0	<0.05	?

895032

DDH NUMBER	SAMPLE NUMBER	FROM	TO	g/t Au	ASSAY METHOD
D313	D313/1	4.57	5.49	0.005	acid
D313	D313/2	5.49	6.41	0.005	acid
D313	D313/5	9.65	10.62	0.010	acid
D313	D313/6	10.62	11.58	0.010	acid
D313	D313/7	11.58	12.50	<0.005	acid
D313	D313/8	12.50	14.00	0.005	acid
D313	D313/9	14.00	15.00	0.005	acid
D313	D313/10	15.00	16.00	0.015	acid
D313	D313/11	16.00	17.00	0.010	acid
D313	D313/12	17.00	18.00	0.010	acid
D313	D313/13	18.00	19.00	0.045	acid
D313	D313/14	19.00	20.00	0.010	acid
D313	D313/15	20.00	21.00	0.035	acid
D313	D313/16	21.00	22.00	0.005	acid
D313	D313/17	22.00	23.00	0.085	acid
D313	D313/18	23.00	24.00	0.005	acid
D313	D313/20	25.00	26.00	0.005	acid
D313	D313/22	31.00	32.00	<0.005	acid
D313	D313/23	32.00	33.00	0.005	acid
D313	D313/24	33.00	34.00	<0.005	acid
D313	D313/25	34.00	35.00	<0.005	acid
D313	D313/28	37.00	38.00	<0.005	acid
D313	D313/30	38.00	39.00	<0.005	acid
D313	D313/32	39.00	40.00	0.005	acid
D313	D313/33	40.00	41.00	<0.005	acid
D313	D313/34	41.00	42.00	<0.005	acid
D313	D313/35	42.00	43.00	<0.005	acid
D313	D313/36	43.00	44.00	<0.005	acid
D313	D313/38	44.00	45.00	<0.005	acid
D313	D313/40	45.00	46.00	<0.005	acid
D313	D313/41	46.00	47.00	0.005	acid
D313	D313/42	47.00	48.00	<0.005	acid
D313	D313/43	48.00	49.00	<0.005	acid
D313	D313/44	49.00	50.00	<0.005	acid
D313	D313/45	50.00	51.00	0.005	acid
D313	D313/46	51.00	52.00	0.005	acid
D313	D313/47	52.00	53.00	<0.005	acid
D313	D313/48	53.00	54.00	<0.005	acid
D313	D313/49	54.00	55.00	0.005	acid
D313	D313/50	55.00	56.00	<0.005	acid
D313	D313/51	56.00	57.00	0.005	acid
D313	D313/52	57.00	58.00	0.020	acid
D313	D313/53	58.00	59.00	0.005	acid
D313	D313/54	59.00	60.65	<0.005	acid

DDH NUMBER	SAMPLE NUMBER	FROM	TO	g/t Au	ASSAY METHOD
D314	D314/1	0.00	1.00	0.040	acid
D314	D314/2	1.00	2.00	0.055	acid
D314	D314/3	2.00	3.00	0.005	acid
D314	D314/4	3.00	4.00	0.080	acid
D314	D314/5	4.00	5.00	0.110	acid
D314	D314/6	5.00	6.00	0.010	acid
D314	D314/12	6.00	12.00	0.010	acid
D314	D314/13	12.00	13.00	0.020	acid
D314	D314/14	13.00	14.00	0.020	acid
D314	D314/15	14.00	15.00	0.010	acid
D314	D314/16	15.00	16.00	0.005	acid
D314	D314/17	16.00	17.00	0.005	acid
D314	D314/18	17.00	18.00	0.005	acid
D314	D314/19	18.00	19.00	0.005	acid
D314	D314/20	19.00	20.00	0.005	acid
D314	D314/21	20.00	21.00	0.005	acid
D314	D314/22	21.00	22.00	0.010	acid
D314	D314/23	22.00	23.00	0.010	acid
D314	D314/24	23.00	24.00	<0.005	acid
D314	D314/25	24.00	25.00	0.010	acid
D314	D314/26	25.00	26.00	0.015	acid
D314	D314/27	26.00	27.00	0.005	acid
D314	D314/28	27.00	28.00	<0.005	acid
D314	D314/29	28.00	29.00	<0.005	acid
D314	D314/30	29.00	30.00	0.020	acid
D314	D314/31	30.00	31.00	0.010	acid
D314	D314/32	31.00	32.00		acid
D314	D314/33	32.00	33.00	0.005	acid
D314	D314/34	33.00	34.00	0.005	acid
D314	D314/35	34.00	35.00		acid
D314	D314/36	35.00	36.00		acid
D314	D314/37	36.00	37.00	0.025	acid
D314	D314/38	37.00	38.00		acid
D314	D314/39	38.00	39.00	0.010	acid

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DDH NUMBER	SAMPLE NUMBER	FROM	TO	g/t Au	ASSAY method
D316	D316/1	7.92	9.00	0.015	acid
D316	D316/2	9.00	10.00	0.020	acid
D316	D316/3	10.00	11.00	0.010	acid
D316	D316/4	11.00	12.00	0.025	acid
D316	D316/5	12.00	13.00	0.020	acid
D316	D316/6	13.00	14.00	0.010	acid
D316	D316/7	14.00	15.00	0.005	acid
D316	D316/8	15.00	16.00	0.005	acid
D316	D316/9	16.00	17.00	0.005	acid
D316	D316/10	17.00	18.00	0.005	acid
D316	D316/11	18.00	19.00	0.005	acid
D316	D316/12	19.00	20.00	<0.005	acid
D316	D316/13	20.00	21.00	<0.005	acid
D316	D316/14	21.00	22.00	0.010	acid
D316	D316/15	22.00	23.00	<0.005	acid
D316	D316/16	23.00	24.00	<0.005	acid
D316	D316/17	24.00	25.00	<0.005	acid
D316	D316/18	25.00	26.00	<0.005	acid
D316	D316/19	26.00	27.00	<0.005	acid
D316	D316/20	27.00	28.00	<0.005	acid
D316	D316/21	28.00	29.00	<0.005	acid
D316	D316/22	29.00	30.00	<0.005	acid
D316	D316/23	30.00	31.00	0.005	acid
D316	D316/24	31.00	32.00	0.015	acid
D316	D316/25	32.00	33.00	<0.005	acid
D316	D316/26	33.00	34.00	0.010	acid
D316	D316/27	34.00	35.00	<0.005	acid
D316	D316/28	35.00	36.00	<0.005	acid
D316	D316/29	36.00	37.00	<0.005	acid
D316	D316/30	37.00	38.00	0.005	acid
D316	D316/31	38.00	39.00	0.005	acid
D316	D316/32	39.00	40.00	0.005	acid
D316	D316/33	40.00	41.00	0.005	acid
D316	D316/34	41.00	42.00	0.005	acid
D316	D316/35	42.00	43.00	0.015	acid
D316	D316/36	43.00	44.00	0.110	acid
D316	D316/37	44.00	45.00	0.015	acid
D316	D316/38	45.00	46.00	0.110	acid
D316	D316/39	46.00	47.00	0.080	acid
D316	D316/40	47.00	48.00	0.025	acid
D316	D316/42	49.00	50.00	0.080	acid
D316	D316/43	50.00	51.00	0.025	acid
D316	D316/46	53.00	54.00	0.015	acid
D316	D316/48	55.00	56.00	0.025	acid
D316	D316/49	56.00	57.00	0.010	acid
D316	D316/50	57.00	58.00	0.005	acid
D316	D316/51	58.00	59.00	0.010	acid
D316	D316/52	59.00	60.00	0.005	acid
D316	D316/53	60.00	61.00	0.005	acid
D316	D316/54	61.00	62.00	0.005	acid
D316	D316/55	62.00	63.00	0.005	acid
D316	D316/56	63.00	64.00	0.005	acid
D316	D316/57	64.00	65.00	0.005	acid
D316	D316/58	65.00	66.00	0.005	acid
D316	D316/59	66.00	67.00	0.015	acid
D316	D316/60	67.00	68.00	0.010	acid
D316	D316/61	68.00	69.00	0.015	acid
D316	D316/62	69.00	70.00	0.010	acid

D316	D316/64	71.00	72.00	0.015	acid
D316	D316/65	72.00	73.00	0.025	acid
D316	D316/66	73.00	74.00	0.010	acid
D316	D316/67	74.00	75.00	0.030	acid
D316	D316/68	75.00	76.00	0.025	acid
D316	D316/69	76.00	77.00	0.005	acid
D316	D316/70	77.00	78.00	0.015	acid
D316	D316/71	78.00	79.00	0.030	acid
D316	D316/72	79.00	80.00	0.030	acid
D316	D316/73	80.00	81.00	0.020	acid
D316	D316/74	81.00	82.00	<0.005	acid
D316	D316/75	82.00	83.00	<0.005	acid
D316	D316/76	83.00	84.00	<0.005	acid
D316	D316/77	84.00	85.00	0.035	acid

DDH NUMBER	SAMPLE NUMBER	FROM	TO	g/t Au	ASSAY METHOD
D326	D326/1	46.00	47.00	0.05	?
D326	D326/2	47.00	47.80	<0.05	?
D326	D326/3	47.80	48.50	<0.05	?
D326	D326/4	48.50	49.00	0.05	?
D326	D326/5	49.00	49.50	<0.05	?
D326	D326/6	49.50	50.00	<0.05	?
D326	D326/7	50.00	50.50	0.05	?
D326	D326/8	50.50	51.00	0.21	?
D326	D326/9	51.00	51.50	0.05	?
D326	D326/10	56.99	57.76	<0.05	?
D326	D326/11	57.76	58.50	<0.05	?
D326	D326/12	58.50	59.25	<0.05	?
D326	D326/13	59.25	60.00	<0.05	?
D326	D326/14	60.00	60.75	<0.05	?
D326	D326/15	60.75	61.50	<0.05	?
D326	D326/16	61.50	62.25	<0.05	?
D326	D326/17	62.25	63.00	<0.05	?
D326	D326/18	63.00	63.75	<0.05	?
D326	D326/19	63.75	64.50	<0.05	?
D326	D326/20	64.50	65.25	<0.05	?
D326	D326/21	65.25	66.00	<0.05	?
D326	D326/22	66.00	67.00	<0.05	?
D326	D326/23	67.00	68.00	<0.05	?
D326	D326/24	68.00	69.00	<0.05	?

DDH NUMBER	SAMPLE NUMBER	FROM	TO	g/t Au	ASSAY METHOD
D330	D330/1	64.00	65.00	0.05	?
D330	D330/2	65.00	66.00	<0.05	?
D330	D330/3	66.00	67.00	0.05	?
D330	D330/4	67.00	68.00	0.06	?
D330	D330/5	68.00	69.00	0.06	?
D330	D330/6	69.00	70.00	0.06	?
D330	D330/7	70.00	71.00	<0.05	?
D330	D330/8	71.00	72.00	<0.05	?
D330	D330/9	72.00	73.00	<0.05	?
D330	D330/10	73.00	74.00	<0.05	?
D330	D330/11	74.00	75.00	<0.05	?
D330	D330/12	75.00	76.00	<0.05	?
D330	D330/13	76.00	77.00	<0.05	?
D330	D330/14	77.00	78.00	<0.05	?
D330	D330/15	78.00	79.00	<0.05	?
D330	D330/16	79.00	80.00	<0.05	?
D330	D330/17	80.00	81.00	<0.05	?
D330	D330/18	81.00	82.00	<0.05	?
D330	D330/19	82.00	83.00	<0.05	?

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DDH NUMBER	SAMPLE NUMBER	FROM	TO	g/t Au	ASSAY METHOD
D333	D333/1	41.0	42.0	<0.05	?
D333	D333/2	42.0	43.0	<0.05	?
D333	D333/3	43.0	44.0	<0.05	?
D333	D333/4	44.0	45.0	<0.05	?
D333	D333/5	45.0	46.0	<0.05	?
D333	D333/6	46.0	47.0	<0.05	?
D333	D333/7	47.0	48.0	<0.05	?
D333	D333/8	48.0	49.0	<0.05	?
D333	D333/9	49.0	50.0	<0.05	?
D333	D333/10	50.0	51.0	<0.05	?
D333	D333/11	51.0	52.0	<0.05	?
D333	D333/12	52.0	54.0	<0.05	?
D333	D333/13	54.0	55.0	<0.05	?
D333	D333/14	55.0	56.0	<0.05	?
D333	D333/15	56.0	57.0	<0.05	?
D333	D333/16	57.0	58.0	<0.05	?
D333	D333/17	58.0	59.0	<0.05	?
D333	D333/18	59.0	60.0	<0.05	?
D333	D333/19	60.0	61.0	<0.05	?
D333	D333/20	61.0	62.0	<0.05	?
D333	D333/21	62.0	63.0	<0.05	?
D333	D333/22	63.0	64.0	<0.05	?
D333	D333/23	64.0	65.0	<0.05	?
D333	D333/24	65.0	66.0	<0.05	?
D333	D333/25	66.0	67.0	<0.05	?
D333	D333/26	67.0	68.0	<0.05	?
D333	D333/27	68.0	69.0	<0.05	?
D333	D333/28	69.0	70.0	<0.05	?
D333	D333/29	70.0	71.0	<0.05	?
D333	D333/30	71.0	72.0	<0.05	?
D333	D333/31	72.0	73.0	<0.05	?
D333	D333/32	73.0	74.0	<0.05	?
D333	D333/33	74.0	75.0	<0.05	?
D333	D333/34	75.0	76.0	<0.05	?
D333	D333/35	76.0	77.0	<0.05	?

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DDH NUMBER	SAMPLE NUMBER	FROM	TO	g/t Au	ASSAY METHOD
D343	D343/83	?	?	0.005	acid
D343	D343/84	?	?	0.005	acid
D343	D343/85	?	?	<0.005	acid
D343	D343/86	?	?	<0.005	acid
D343	D343/87	?	?	<0.005	acid
D343	D343/88	?	?	<0.005	acid
D343	D343/89	?	?	<0.005	acid
D343	D343/90	?	?	<0.005	acid
D343	D343/91	?	?	<0.005	acid
D343	D343/92	?	?	<0.005	acid
D343	D343/93	?	?	<0.005	acid
D343	D343/94	?	?	<0.005	acid
D343	D343/95	?	?	<0.005	acid
D343	D343/96	?	?	<0.005	acid
D343	D343/97	?	?	<0.005	acid
D343	D343/98	?	?	<0.005	acid
D343	D343/99	?	?	<0.005	acid
D343	D343/100	?	?	<0.005	acid
D343	D343/101	?	?	0.005	acid
D343	D343/102	?	?	<0.005	acid
D343	D343/103	?	?	<0.005	acid
D343	D343/104	?	?	<0.005	acid
D343	D343/105	?	?	<0.005	acid
D343	D343/106	?	?	0.005	acid
D343	D343/107	?	?	0.005	acid
D343	D343/108	?	?	<0.005	acid
D343	D343/109	?	?	<0.005	acid
D343	D343/110	?	?	<0.005	acid
D343	D343/111	?	?	<0.005	acid
D343	D343/112	?	?	<0.005	acid
D343	D343/113	?	?	<0.005	acid
D343	D343/114	?	?	<0.005	acid
D343	D343/115	?	?	<0.005	acid
D343	D343/116	?	?	<0.005	acid
D343	D343/117	?	?	<0.005	acid
D343	D343/118	?	?	<0.005	acid
D343	D343/119	?	?	<0.005	acid
D343	D343/120	?	?	<0.005	acid
D343	D343/121	?	?	<0.005	acid
D343	D343/122	?	?	0.005	acid
D343	D343/123	?	?	<0.005	acid
D343	D343/124	?	?	<0.005	acid
D343	D343/125	?	?	<0.005	acid
D343	D343/126	?	?	<0.005	acid
D343	D343/127	?	?	<0.005	acid

DDH NUMBER	SAMPLE NUMBER	FROM	TO	g/t Au	ASSAY METHOD
D500	D500/1	12.55	12.85	<0.005	?
D500	D500/2	12.85	13.50	<0.005	?
D500	D500/3	13.50	14.30	<0.005	?
D500	D500/4	14.30	15.30	<0.005	?
D500	D500/5	15.30	16.30	<0.005	?
D500	D500/6	16.30	17.30	<0.005	?
D500	D500/7	17.30	18.50	<0.005	?

DDH NUMBER	SAMPLE NUMBER	FROM	TO	g/t Au	ASSAY METHOD
D510	D510/29	53.00	54.00	<0.02	acid
D510	D510/30	55.00	55.00	<0.02	acid
D510	D510/31	56.00	56.00	<0.02	acid
D510	D510/32	61.00	62.00	<0.02	acid
D510	D510/33	62.00	63.00	<0.02	acid
D510	D510/34	63.00	64.00	<0.02	acid

DDH NUMBER	SAMPLE NUMBER	FROM	TO	g/t Au	ASSAY METHOD
D514	D514/18	?	?	<0.02	acid
D514	D514/19	?	?	<0.02	acid
D514	D514/20	?	?	<0.02	acid
D514	D514/21	?	?	<0.02	acid
D514	D514/22	?	?	<0.02	acid
D514	D514/23	?	?	<0.02	acid

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DDH NUMBER	SAMPLE NUMBER	FROM	TO	g/t Au	ASSAY METHOD
D516	D516/1	?	?	<0.005	acid
D516	D516/2	?	?	<0.005	acid
D516	D516/3	?	?	0.005	acid
D516	D516/4	?	?	0.005	acid
D516	D516/5	?	?	0.015	acid
D516	D516/6	?	?	<0.005	acid
D516	D516/7	?	?	<0.005	acid
D516	D516/8	?	?	<0.005	acid
D516	D516/9	?	?	<0.005	acid
D516	D516/10	?	?	<0.005	acid

SAMPLE NUMBER	LOCATION	g/t Au	ASSAY METHOD
HM1/86	Kara No 1	0.045	acid
HM2/86	Kara No 1	0.270	acid
HM3/86	Kara No 1	0.180	acid
HM4/86	Kara No 1	0.120	acid
HM5/86	Companion skarn	0.035	acid
HM6/86	Kara N Mag anomaly	0.095	acid
HM7/86	Bob's Bonanza	0.010	acid

SAMPLE NUMBER	DESCRIPTION	g/t Au	ASSAY METHOD
SM1	Hampshire Silver Mine	<0.05	?
SM2	Hampshire Silver Mine	<0.05	?
SM3	Hampshire Silver Mine	<0.05	?
SM4	Hampshire Silver Mine	<0.05	?
SM5	Hampshire Silver Mine	<0.05	?

APPENDIX 3

DETAILS OF COMPOSITE DIAMOND DRILL CORE SAMPLES

SAMPLE No. HM1/86

Represents fresh magnetite skarn:-

Kara No. 1 - Section Line 5780N

Levels 470 to 480L (15 metres) - 64,800 tonnes.

	Total F Skarn	-includes-	WO3 bearing skarn
Level 480 -	26,400 tonnes	-	12,800 tonnes
Level 475 -	21,600 tonnes	-	12,000 tonnes
Level 470 -	16,800 tonnes	-	5,600 tonnes
	64,800 tonnes	-	30,400 tonnes

Sample collected from DDH 238 (MMA)

Depth - 39.3m to 51.0m (11.70m)
Sample No.'s - 224/56, 57, 59, 61, 63, 65 + 67 (7 samples)
Type of Sample - crushed core sample
Weight of sample - 11kgs

Attached:-

(1) Drill section Line 5780N - Kara No. 1

(2) Drill log - DDH 238

(3) Assay record - DDH 238

SAMPLE No. HM2/68 36

Represents fresh magnetite skarn:-

Kara No. 1 - Section Line 5820N

Levels - 470, 465 and 460 levels (15 metres) - 102,400 tonnes

	Total F skarn	-includes-	WO3 Bearing skarn
Level 470 -	40,000 tonnes	-	13,600 tonnes
Level 465 -	33,600 tonnes	-	22,400 tonnes
Level 460 -	28,800 tonnes	-	12,000 tonnes
	102,400 tonnes		48,000 tonnes

Samples collected from:-

DDH 316 - (MMA)

Depth - 43.0 to 63.0 metres (20 metres)
Sample No's - D316/36 to D316/55 (20 samples)
Type of Sample - crushed core samples

DDH 113 (ANZECO)

Depth - 51.83 to 71.65m (19.82metres)
Sample No's - D001 to 013 (13 samples)
Type of Sample - ¼ drill core - crushed/split
Total weight of sample = 8.4 kgs.

Attached:-

(1) Drill section line 5820N - Kara No. 1
(2) Drill logs DDH 113, 316
(3) Assay records DDh316

SAMPLE NO. HM3/86

Represents fresh magnetite skarn:-

Kara No. 1 - Section Line 5860N.
Levels - 460, 455L, 453 (12 metres) - 60,320 tonnes

	Total F skarn	-includes-	WO3 Bearing skarn
Level 460 -	28,000 tonnes	-	16,000 tonnes
Level 455 -	27,200 tonnes	-	13,600 tonnes
Level 453 -	5,120 tonnes	-	3,840 tonnes
	60,320 tonnes	-	33,440 tonnes

Samples collected from:-

DDH 204 - (MMA)

Depth - 63.0m to 78.0m (15.0 metres)
Sample No's - D204/1 to D204/15 (15 samples)
Type of sample - ½ core sample, crushed and split

Total weight of sample = 11 kgs

Attached:-

(1) Drill section line 5860N - Kara No.1
(2) Drill log DDH 204 (63.0 to 78.0m)
(3) Assay record DDH204

SAMPLE NO. HM4/86

Represent fresh magnetite skarn:-

Kara No. 1 - Section Line 5900N.
Levels - 455,450, 445 and 443 levels (17m) - 104,000 tonnes

	Total F skarn	-includes-	WO3 Bearing skarn
Level 455L -	49,600 tonnes	-	34,400 tonnes
Level 450L -	30,400 tonnes	-	21,600 tonnes
Level 445L -	18,400 tonnes	-	12,000 tonnes
Level 443L -	5,600 tonnes	-	3,200 tonnes
	104,000 tonnes	-	71,200 tonnes

Samples collected from:-

DDH 205 - (MMA)

Depth - 68.00m to 85.00m (17 metres)
Sample No.'s - D 030 to D 046 (17 samples)
Type of sample - ½ core split/crushed

Total weight of sample = 11kgs

Attached:-

(1) Drill section line No. 5900N
(2) Drill line DDH 205 (68 - 85m)
(3) Assay record DDH204

SAMPLE NO. HM5/86

Fresh magnetite skarn:-

COMPANION MAGNETITE SKARN DEPOSIT

No specific tonnage representation.

Sample collected from:-

DDH 147 - (ANZECO)

Depth - 36.28m to 59.76m (23.48 metres)
Sample No.'s - D 014 to D 029 (16 samples)
Type of sample - ½ core split and crushed.

Total weight of sample = 11.2 kgs

Attached:-

(1) Drill log of DDH 147
(2) Assay record of DDH 147

SAMPLE NO. HM6/86

Fresh magnetite skarn:-

KARA NORTH MAGNETITE ANOMALY

No specific tonnages representation

Sample collected from:-

DDH 317 - (MMA)

Depth - 59.0m to 80.60m (21.60 metres)
Sample No.'s - D 317/31 to D 317/51 (21 samples)
Type of Sample - crushed core samples

Total weight of sample = 11.2 kgs

Attached:-

(1) Drill log of DDH 317
(2) Assay record of DDH 317

SAMPLE NO. HM 7/86

Magnetite skarn sample from the

BOBS BONANZA EAST SKARN ZONE

No specific tonnage representation.

Sample collected from:-

DDH 500 - (TAS MINES)

Depth - 13.50m to 17.70m (4.20 metres)
Sample No's - D500/3 to D500/6 (4 samples)
Type of sample - Core, split and crushed.

Total weight of sample = 5.2kgs

Attached:-

Nil

APPENDIX 4

DESCRIPTIVE MODEL OF CARBONATE HOSTED AU

DESCRIPTIVE MODEL OF CARBONATE-HOSTED Au-Ag

By Byron R. Berger

APPROXIMATE SYNONYM Carlin-type or invisible gold.

DESCRIPTION Very fine grained gold and sulfides disseminated in carbonaceous calcareous rocks and associated jasperoids.

GENERAL REFERENCE Tooker (1985).

GEOLOGICAL ENVIRONMENT

Rock Types Host rocks: thin-bedded silty or argillaceous carbonaceous limestone or dolomite, commonly with carbonaceous shale. Intrusive rocks: felsic dikes.

Textures Dikes are generally porphyritic.

Age Range Mainly Tertiary, but can be any age.

Depositional Environment Best host rocks formed as carbonate turbidites in somewhat anoxic environments. Deposits formed where these are intruded by igneous rocks under nonmarine conditions.

Tectonic Setting(s) High-angle normal fault zones related to continental margin rifting.

Associated Deposit Types W-Mo skarn, porphyry Mo, placer Au, stibnite-barite veins.

DEPOSIT DESCRIPTION

Mineralogy Native gold (very fine grained) + pyrite + realgar + orpiment ± arsenopyrite ± cinnabar ± fluorite ± barite ± stibnite. Quartz, calcite, carbonaceous matter.

Texture/Structure Silica replacement of carbonate. Generally less than 1 percent fine-grained sulfides.

Alteration Unoxidized ore: jasperoid + quartz + illite + kaolinite + calcite. Abundant amorphous carbon locally appears to be introduced. Hypogene oxidized ore: kaolinite + montmorillonite + illite + jarosite + alunite. Ammonium clays may be present.

Ore Controls Selective replacement of carbonaceous carbonate rocks adjacent to and along high-angle faults, or regional thrust faults or bedding.

Weathering Light-red, gray, and (or) tan oxides, light-brown to reddish-brown iron-oxide-stained jasperoid.

Geochemical Signature: Au + As + Hg + W ± Mo; As + Hg + Sb + Tl ± F (this stage superimposed on preceding); NH_3 important in some deposits.

EXAMPLES

Carlin, USNV	(Radtke and others, 1980)
Getchell, USNV	(Joralemon, 1951)
Mercur, USUT	(Gilluly, 1932)

GRADE AND TONNAGE MODEL OF CARBONATE-HOSTED Au-Ag

By William C. Bagby, W. David Menzie, Dan L. Mosier, and Donald A. Singer

COMMENTS See figs. 134-135

Model 26a--Con.

DEPOSITS

Name	Country	Name	Country
Alligator Ridge	USNV	Jerritt Canyon	USNV
Atlanta	USNV	Maggie Creek	USNV
Blue Star	USNV	Mercur	USUT
Carlin	USNV	Northumberland	USNV
Cortez	USNV	Pinson	USNV
Dee	USNV	Preble	USNV
Emigrant Springs #1	USNV	Rain	USNV
Emigrant Springs #2	USNV	Relief Canyon	USNV
Florida Canyon	USNV	Roberts Mtns. Dist.	USNV
Getchell	USNV	Santa Fe	USNV
Giltedge	USMT	Standard	USNV
Gold Bar	USNV	Toiyabe	USNV
Gold Acres	USNV	Tolman	USID
Gold Quarry	USNV	Tonkin Springs	USNV
Horse Canyon	USNV	Windfall	USNV

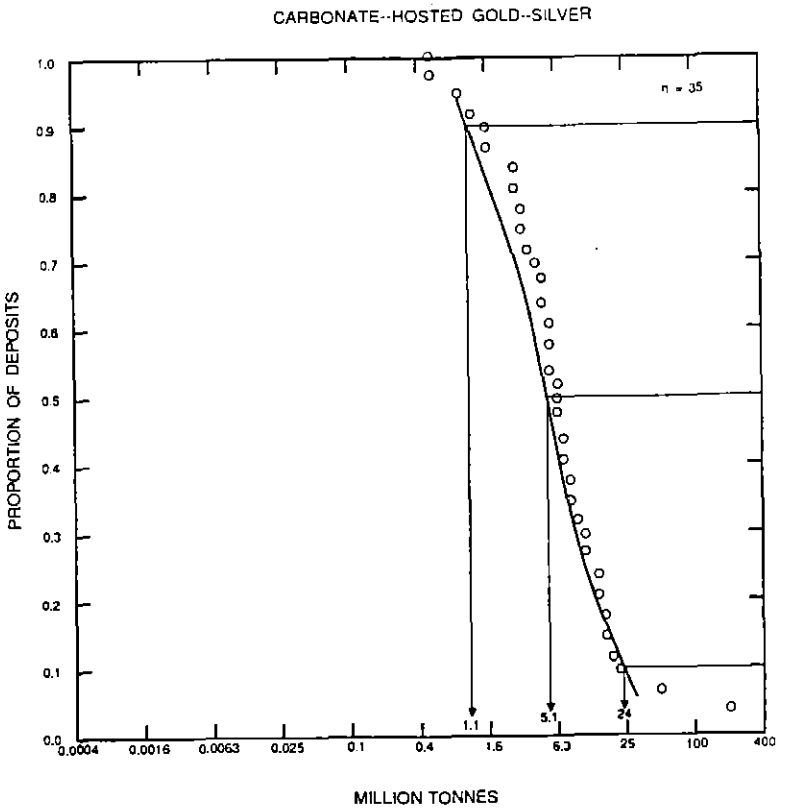


Figure 134. Tonnages of carbonate-hosted Au-Ag deposits.

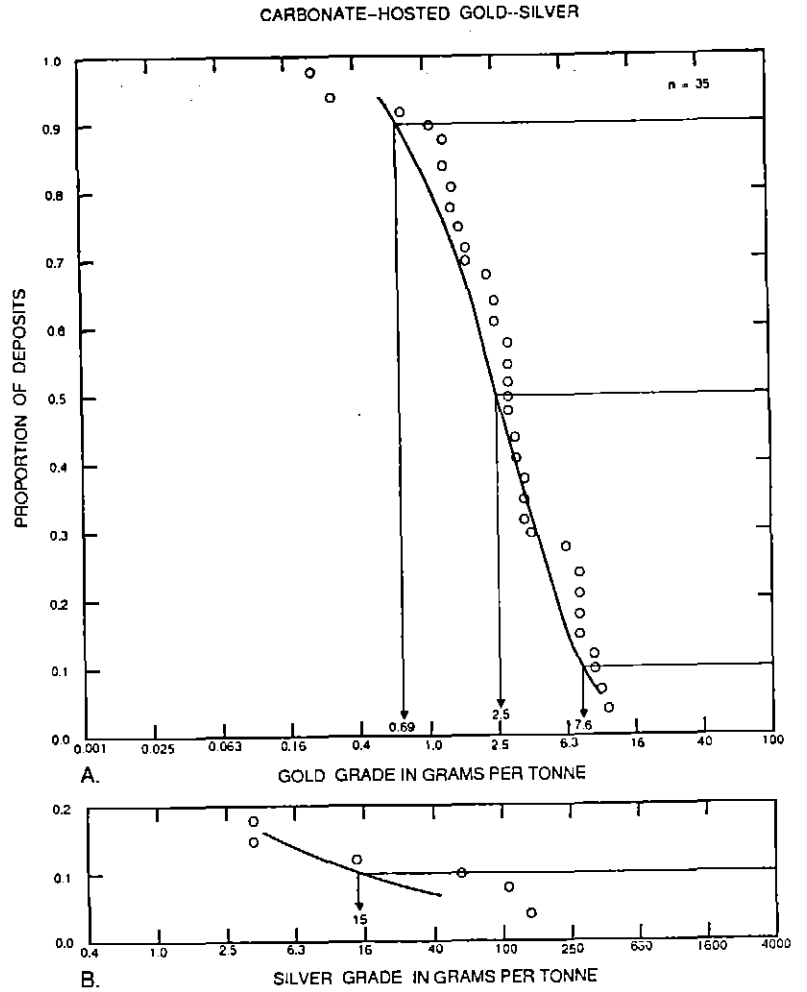
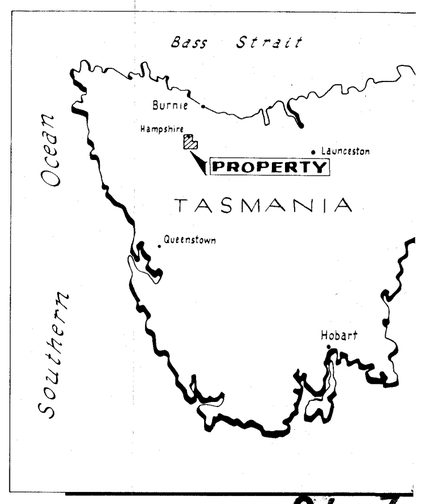


Figure 135. Precious-metal grades of carbonate-hosted Au-Ag deposits. A, Gold. B, Silver.



94-3

PRE DEVELOPMENT PROGRA

McINTYRE MINES (AUST.) PTY.

E.L. 17/68 - KARA PROPERTI

AREAS COVERED BY SURFACE EXPLO

5 cm

N

G.R.M.

0 100 200 300 400 500 Metres

SCALE 1:10,000

GEOLOGY

RECENT — A — Alluvium

TERTIARY — V V — Basalt

TERTIARY — Δ Δ — Conglomerate, breccias etc.

DEVONIAN — + + — Granite

ORDOVICIAN
- GORDON LIMESTONE — Ool — Limestone
- TRANSITION BEDS — . . — Sandstone with calcareous members
- MOINA SANDSTONE — Oc — Sandstone and quartzite
- OWEN CONGLOMERATE — Oo — Conglomerate and grits

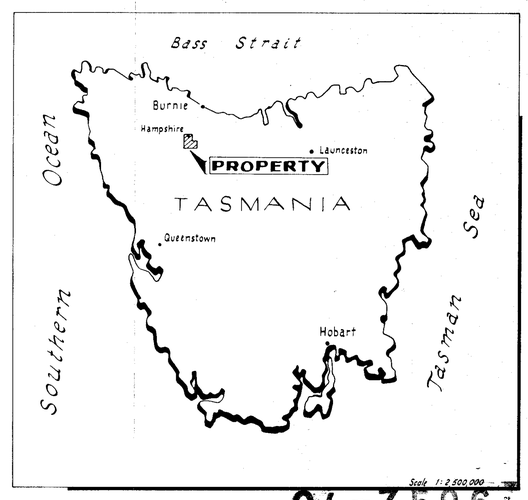
CAMBRIAN
- HORNFELS GROUP — €b — Hornfels
- ACID VOLCANICS — €v — Acid volcanics

Skarn zones

REFE

Base Map enlarged from 1:100,000 Hellyer N.T.M. Sheet 8015 & Aerial Photographs

5 cm



PRE DEVELOPMENT PROGRAMME

McINTYRE MINES (AUST.) PTY. LTD.

E.L. 17/68 - KARA PROPERTIES

AREAS COVERED BY SURFACE EXPLORATION WORK

5 cm

N

0 100 200 300 400 500 Metres

SCALE 1:10,000

GEOLOGY

- RECENT — A — Alluvium
- TERTIARY — V V — Basalt
- TERTIARY — Δ Δ — Conglomerate, breccias etc.
- DEVONIAN — + + — Granite
- ORDOVICIAN — GORDON LIMESTONE TRANSITION BEDS — Ogt — Limestone
- ORDOVICIAN — MOINA SANDSTONE — Oc — Sandstone and quartzite
- ORDOVICIAN — OWEN CONGLOMERATE — Oo — Conglomerate and grits
- CAMBRIAN — HORNFELS GROUP — €b — Hornfels
- CAMBRIAN — ACID VOLCANICS — €v — Acid volcanics
- Skarn zones

REFERENCE

- River
- Creek
- Road
- Track
- Railway
- Trig. Beacon
- Geological Boundary

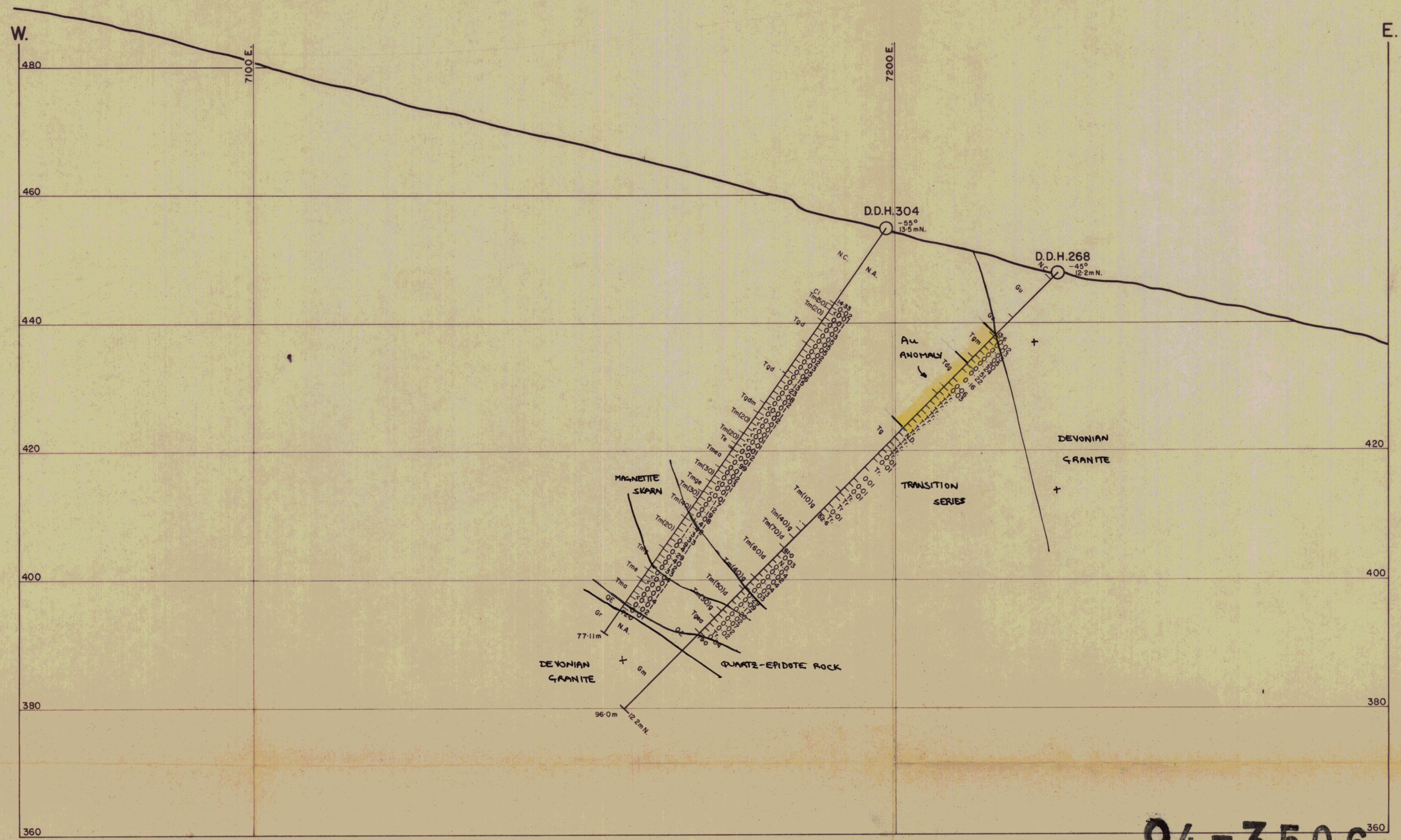
Base Map enlarged from 1:100,000 Halliger N.T.M. Sheet 8015 & Aerial Photographs.

Nov. 1983

HAMPSHIRE
HAMPSHIRE MAGNETITE
HAMPSHIRE SILVER MINE
KARA NORTH 1266 ZONE
KARA NORTH MAGNETITE ZONE
COMPANION SKARN
CONSOLIDATED LEASE (105M-77 BOUNDARY)
EASTERN RIDGE
WESTERN LIMB
KARA No.1 MILL
TASMINEX MAIN PIT
BOBS BONANZA
SOUTH EXT.
KARA GRANITE STOCK
LOWREY'S PITS
KARA SOUTH
SUTTONS SKARN
HOUSETOP GRANITE
KARA No.2 MAIN ZONE
KARA No.2 EAST
KARA No.2 SOUTH
RINGWOOD GRANITE STOCK
Gutte River
Companion River
Big Creek
Old Pond Creek
Emu Creek
Hollows Creek
Smiths River
L4 L5 L9 L10 L11 L12 L13
500 600 700 800
39 6000 E. 39 7000 E. 39 8000 E. 39 9000 E. 40 0000 E. 40 1000 E. 40 2000 E. 40 3000 E. 40 4000 E.
543 2000 N. 543 1000 N. 543 0000 N. 542 9000 N. 542 8000 N. 542 7000 N. 542 6000 N. 542 5000 N. 542 4000 N. 542 3000 N. 542 2000 N.

KARA NORTH - "266 ZONE"

7060 N.



GOLD IN THE KARA AREA (1994) FIGURE 4

94-3596

KARA NORTH - "266 ZONE"

DRILL SECTION - 7060 N.

GEOLOGY - TUNGSTEN ASSAYS

POTENTIAL RESERVES

895059

5 cm

SCALE: 1:500 DATE: December 1981

McINTYRE MINES (AUSTRALIA) PTY. LTD.

COMPILED: C.H.W. DRAWN: T.G.D.S.

LEGEND:

- + = GRANITE
- = QUARTZITE + SANDSTONE
- = SKARN ZONE
- = MAGNETITE RICH ZONE
- X+Y/F = WEATHERED ZONES
  - X = WEATHERED
  - Y = PARTIALLY WEATHERED
  - F = FRESH
- = BLOCKED OUT POTENTIAL WO_3 RESERVES (CUT OFF 0·2% WO_3)
- 50° 50° = POSSIBLE OPEN CUT LAYBACK FOR WO_3 RESERVES
- D.D.H.266 — 0·12% WO_3 — INTERVAL ASSAYED FOR WO_3; N.A. = NOT ASSAYED
- A.H.76 = AUGER HOLE (ANZECO)

10 5 0 10 20 30 METRES

SCALE: 1:500 (HOR.+VERT.)

KARA NORTH - "266 ZONE"

7020 N.

94-3596

W. E.

7100 E. 7200 E.

460 440 420 400 380 360

Au ANOMALY SHADED
YELLOW (LO) & RED (HI)

D.D.H.306 -45° 4·6mN.

D.D.H.292 -45° 0·2mN.

TRANSITION SERIES

TRANSITION SERIES

DEVONIAN GRANITE

DEVONIAN GRANITE

QUARTZ EPIDOTE ROCK

86·19m

113·7m 0·2mN

GOLD IN THE KARA AREA (1974) FIGURE 3

LEGEND:

+ = GRANITE

= QUARTZITE + SANDSTONE

= SKARN ZONE

= MAGNETITE RICH ZONE

= BLOCKED OUT POTENTIAL WO_3 RESERVES (CUT OFF 0·2% WO_3)

50° 50° = POSSIBLE OPEN CUT LAYBACK FOR WO_3 RESERVES

D.D.H.266
0·12 % WO_3 — INTERVAL ASSAYED FOR WO_3
N.A. = NOT ASSAYED

A.H.76 = AUGER HOLE (ANZECO)

$\frac{X+Y}{F}$ = WEATHERED ZONES
X = WEATHERED
Y = PARTIALLY WEATHERED
F = FRESH

10 5 0 10 20 30 METRES

SCALE: 1:500 (HOR.+VERT.)

895060

5 cm

KARA NORTH — "266 ZONE"

DRILL SECTION — 7020 N.

GEOLOGY — TUNGSTEN ASSAYS

POTENTIAL RESERVES

SCALE: 1:500 DATE: December 1981

McINTYRE MINES (AUSTRALIA) PTY. LTD.

COMPILED: C.H.W. DRAWN: T.G.D.S.