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DESG

316001

MICROFILMED

FINAL REPORT
EXPLORATION LICENCE 11/74
FARM CREEK

TULLAH, TASMANIA

30 APRIL 1977.

E.H.SKEY

E.H.Skey
Project Geologist
Amminco Exploration

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GEOLOGY

A programme of geological mapping and stream sediment geochemistry was completed prior to July 31, 1975. Rabone (1975) cited load casts and graded bedding as evidence for east facing within steeply west dipping Farrell Group sediments in the Mackintosh River. More recent mapping within properties to the north and south indicate consistent west facing for the Farrell Group, and the presence of minor folds in the Mackintosh damsite area casts doubt on those early conclusions.

A centrally situated pile of massive andesitic crystal tuffs and lavas dominates the geology. Re-examination of field specimens suggested that many porphyritic rocks might be considered intrusions. Some carry traces of magnetite (ref. Plate FC 6). The western lobe of the property is substantially comprised of Quaternary fluvio-glacial debris, however, limited outcrop revealed west-facing, weakly pyritic, fine tuffs in the Tramway Creek area.

GEOPHYSICS

An IP traverse of the above zone, (Plate FC 6), which also includes feldspar quartz crystal tuffs, located a resistivity low 300 metres west of the highway in an area with known pyrite mineralisation. No anomalous frequency effects were associated. (refer our letter dated July 21, 1976).

An airborne survey employing a McPhar H400 EM system and proton precision magnetometer was flown in March 1975. No anomalous responses worthy of follow-up were located. A report by Webster, S.S., November 1975 entitled "Airborne Geophysical Survey of an area within E.L. 2/70, E.L. 15/73 and E.L. 5/74" refers, as this small property was also included in the programme.

GEOCHEMISTRY

The stream sediment programme, - Rabone (1975), utilised minus 40 mesh samples digested in perchloric acid with analyses for copper, lead and zinc by AAS. No significant anomalies were discovered.

CONCLUSIONS

It was concluded that, although attractive stratigraphy was present in the western sector of the licence, the absence of marked geophysical or geochemical response and the unavailability of adjacent ground was sufficient cause for exploration to be terminated.

REFERENCES

1.	Rabone, G.	1975	-	Progress Report for the six months ending July 31, 1975. E.L. 11/74 Farm Creek, Tasmania.
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- 2. Our letter dated July 21, 1976 and attachments thereto.
- 3. Webster, S.S., 1976 Airborne Geophysical Survey of an area within E.L. 2/70 (Mackintosh), E.L. 15/73 (Hatfield), and E.L. 5/74 (Mayday) dated November, 1975.

ATTACHMENTS

Plate FC 6 showing revised geology and the location of the IP traverse line, scale 1:10,000.

EXPENDITURE

During the term of the Licence, (31 July 1974 to 31 January 1977), the following expenditure was incurred: -

Geology	4,775
Survey	165
Geophysics	1,345
Geochemistry	404
Tenure	106
Miscellaneous	318
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	\$7,113
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Submitted by : E.H. Skey
 E.H. Skey *ES*
 Project Geologist

Endorsed by : K.R. Yates
RY K.R. Yates
 Chief Geologist

Nº	NAME / COMPOSITION	CODE	OCCURRENCE	TEXTURE	ROCK COLOUR	COMMON ALTERATION TYPE	COMMON SULPHIDE CONTENT
48	ANDESITE	A	Flow and intrusive	Por, Vesic, massive - fine grained	Green	Carbonate, chlorite	Py ≤ 1% rare base metal sulphides
49	ANDESITIC PYROCLASTICS	AP	Pyroclastic	Variously lfdpxhbx, ta, some amygdaloidal fragments	Green	Carbonate, chlorite	Py ≤ 1% rare base metal sulphides
46	ANDESITIC STREAKY PYROCLASTICS	ASP	Pyroclastic	lt, lta streaky porphyritic	Pale green	Carbonate, chlorite	Py ≤ 1% rare base metal sulphides
44	ANDESITIC - DACITIC PYROCLASTICS	ADP	Pyroclastic green andesitic fragments in an otherwise dacitic pyroclastic	lt, lta	Grey, dark green (grey matrix)	Carbonate, chlorite, sericite, silica	Py ≤ 10% stringer Sph Gn Cpy
63	DACITE MAGNETIC DACITE	D MD	Flow and intrusive	Fine grained, occasionally Por, vesicular	Buff, pink, green brown	Carbonate (sericite chlorite)	Py ≤ 1%
59	DACITIC TUFF LAVA	DTL	Pyroclastic (welded, may be in part sub-aerial)	t, lt, lta, a, fragments similar to matrix	Buff - pink green	Carbonate, sericite	Py ≤ 1%
64	DACITIC PYROCLASTIC	DP	Pyroclastic fragments typically dacite in grey matrix	t, lt, lta, a	Buff - pink and green fragments	Carbonate (silica, sericite chlorite)	Py ≤ 3%
18	PORPHYRITIC DACITE	PD	Flow and intrusive (auto brecciated, fractured)	Porphyry	Buff - grey, yellow green (mottled)	Carbonate, sericite (silica, chlorite)	Py ≤ 10% including stringer mineralisation
6	PORPHYRITIC DACITIC PYROCLASTICS	PDP	Pyroclastic. Fragments typically porphyritic dacite	t, lt, coarse lt, lta	Blue-grey, grey	Carbonate, sericite silica (chlorite)	Py ≤ 10% also stringer Sph Gn, Cpy
70	DACITIC REWORKED TUFFS	DRWT	Reworked pyroclastics	t, lt, coarse lt, lta	Blue - grey, grey	Carbonate, sericite	Py ≤ 10% also minor Sph, Gn, Cpy
68	DACITIC SHALY TUFFS	DSHT	Pyroclastic argillaceous	Fine t, t, lt	Grey	Sericite	Py ≤ 20% also Sph, Gn, Cpy
INDETERMINATE COMPOSITION							
	FLAWS AND INTRUSIVES	L	Flow and intrusive	Por. vesic. massive - fine grained	Green, buff	Carbonate, chlorite	Py ≤ 10%
	PYROCLASTICS	P	Pyroclastic	t, lt, lta	Green, grey - buff	Carbonate, sericite chlorite	Py ≤ 10%
27	STREAKY PYROCLASTICS	SP	Pyroclastic	lt, lta, streaky porphyritic	Green, grey, off-white	Carbonate, sericite	Py ≤ 10%

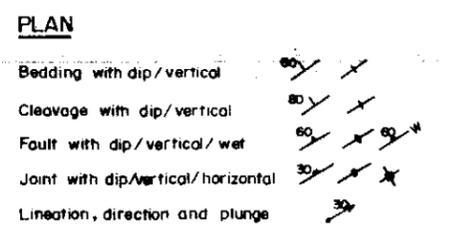
REFERENCE

SECTION

Sericite rich, locally sericitic	ser, (ser)
Chlorite rich, locally chloritic	chlor, (chlor)
Carbonate rich, locally carbonated	carb, (carb)
Silicified, locally silicified	silic, (silic)
Vesicular, amygdaloidal	vesic
Probable original character	siliceous
Foliation, probable bedding/flow bedding	↗ ↘
Cleavage	↗ ↘
Fault unmeasured orientation	F
Fault measured	F
Fault zone unmeasured orientation	FAULT ZONE
Fault zone measured	FAULT ZONE
Petrological sample	141090 *

DRILL HOLE TRACE

Py 5 (50)	Pyrite 5%, locally 50%
Py 5-10	Pyrite 5-10%
Gn 2	Galena 2%
Sph 5	Sphalerite 5%
Cpy 15	Chalcopyrite 15%
Ba 5	Barite 5%
q vein	quartz vein
c vein	carbonate vein



SULPHIDES

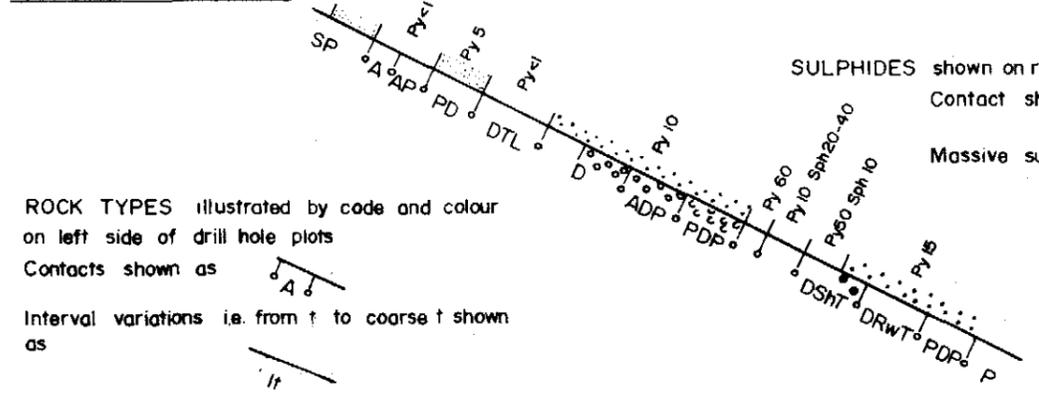
- 21/12 Massive sphalerite - galena
Greater than 5% combined Cu, Pb, Zn
- 29 Massive Pyrite ≥ 60%
- Pyrite ≥ 10%
Pyritic rocks

DOMINANT ALTERATION TYPES

- Carbonate (ankerite)
- Silica
- Chlorite massive / Chlorite disseminated
- Illite hydromuscovite

Alteration illustrated as overprint on same side as rock type.
Contacts shown as

DRILL HOLE TRACE



ROCK TYPES illustrated by code and colour on left side of drill hole plots
Contacts shown as
Interval variations i.e. from t to coarse t shown as

316004

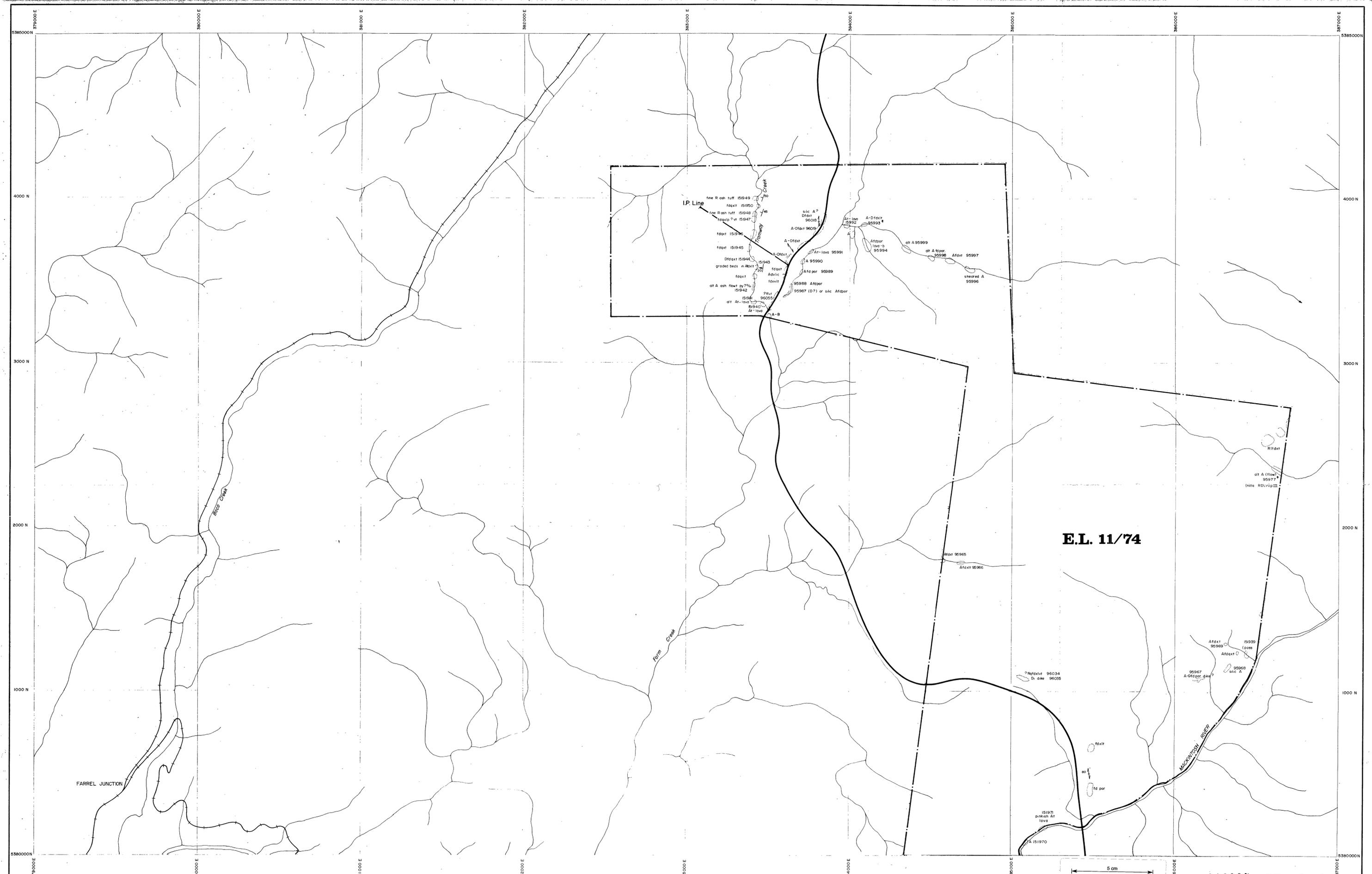
77-1208

ABMINCO N.L.

Drawn: EHS CHY
Traced: RKY
Checked:
Revised: Date:

QUE RIVER PROSPECT 003
Geological Legend and Colour Code

Location code:
Scale:
Date:
Plate N°: QR 84



I.P. Line

E.L. 11/74

316005 77-1208

For legend refer to QR84

371/385	379/385	387/385
371/380	379/380	387/380
371/375	379/375	387/375

Index to adjoining sheets

Geology by Batchelor 1973, Rabone 1974-5
 Skay 1976, descriptions revised by E.H.Skay
 1976

 Cominco Exploration Pty Ltd		004
Drawn: E.H.S	Traced: R.K.Y	NORTH WEST TASMANIA
Checked:		DUNDAS TROUGH
		FARM CREEK — E.L. 11/74
		Fact Geology Map
Location code:	Scale: 1:10,000	Date: April 1977
		Plate: FC 6