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**MICROFILMED**

**OPEN FILE**

Drill Hole Completion Report

DDH SV1

E.L. 4/73, Sterling Valley  
Tasmania

by

D.C. Simpson

June 7, 1977

AMG REFERENCE POINTS ADDED

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309002

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Pty. Ltd.

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INTRODUCTION

In late 1976 Abminco and Asarco agreed to test for tin mineralisation beneath a trench exposure of slates in Sterling Valley containing 0.65% Sn over 3 metres. One diamond drill hole of 150 metres length was planned to test the down-dip extent of this mineralisation.

Following an IP survey the inclination of the hole was changed from  $-60^{\circ}$  to  $-45^{\circ}$  to provide information on a frequency effect/resistivity anomaly which lies to the east of the tin values in the trench.

The hole was subsequently drilled and completed on March 30, 1977 without intersecting significant tin mineralisation or fully explaining all geophysical anomalies.

This report summarises the results of the drilling and a subsequent geophysical interpretation.

DIAMOND DRILL HOLE SV1

This hole was commenced on March 22, 1977 and completed on March 30 at 150 metres.

Target

The target was the down dip extension of an exposure in a trench about 5 metres north of line 4040N. This exposure is pyritic shale which averaged 0.65% Sn over 3 metres. The easting of this zone is 5062E to 5065E.

Geology

The shale which was intersected in the drill hole, was established as prospective for tin mineralisation following a geochemical survey carried out in the previous year.

Three major rock units were intersected in the drill hole. These are (in order down hole and in descending stratigraphic order):

- 1) massive sandstone with interbedded black shale - 5.5 to 51.5m
- 2) grey graphitic shale with interbedded siltstone - 51.5 to 99.8m, true thickness about 48m.

- 3) green-grey sericite quartz schist - 99.8 to 150m, true thickness 50m plus.

Thin section examination of rocks from this latter unit (see Appendix III) show that it consists primarily of schistose, sericitised, devitrified fine grained rhyolitic crystal vitric tuffs. Potash and felspar-carbonate-sphalerite-pyrite veinlets are common and there are traces of disseminated pyrite.

Core bedding angles in core are 70 to 80 degrees. The simplest structural interpretation is a sequence dipping west 50 degrees. The core/bedding angles suggest the dip may have steepened as much as 10 degrees in depth, or that some minor fault displacement is present.

#### Mineralisation

Disseminated pyrite occurs throughout the shale unit. Weak disseminations and veinlets of pyrite with traces of pyrrhotite and sphalerite were observed in the quartz-chlorite schist.

The entire shale section from 52.0 to 99.8 metres was sampled at one metre intervals and assayed for Sn by X-ray fluorescence and Cu, Pb, Zn by AAS at the laboratory of Abminco at the Cleveland tin mine. Spot samples of the quartz-sericite schist were also assayed. The results of all assays appear in Appendix II.

The highest Sn value, was 0.2% from 68.0 to 69.0m, corresponding with a zone of slight silicification. All remaining values were in the range 0.01 to 0.05%. Calibration of the XRF technique restricted the lower limit of detection. Consequently some values will undoubtedly be less than 0.01% Sn.

Highest Cu value was 0.2% but most samples within the shale unit showed 0.1% or above. Lead and zinc values were uniformly low.

#### GEOPHYSICS

The main geophysical anomalies in the vicinity of line 4040N are Induced Polarisation and Resistivity anomalies between 5000E and 5200E. At other proposed drill targets in the property a magnetic anomaly coincides with the IP and resistivity target.

The electrical anomaly pattern from 5000E to 5200E is very complex, indicative of multiple broad sources. Between 5025E and 5075E a broad resistivity low (60 to 200  $\Omega$ m) correlates with a frequency effect high (8 to 12%) to give a moderate metal factor anomaly (20 to 50). This zone has been adequately tested by drill hole SV1 and is explained by the graphite content of the grey shale with interbedded siltstones.

At large dipole spacings ( $n= 3$  to 6), between 5100E and 5200E, the resistivity values decrease to less than 10  $\Omega$ m. This is a very strong reduction in amplitude and can only be explained by possible source geometrics:

- 1) a large, strong conductor centred at 5125E at a depth of approximately 50 metres,
- 2) a second black shale unit at approximately 5175E to 5200E, of similar electrical properties to the intersected unit at 5050E. The effects of these two sources would have to overlap to produce the pattern beneath 5125E.

A second parallel black shale unit, containing pyrite, has been mapped some 100 metres to the east of the intersected shale unit, and possibly contributes to the deep IP anomaly. However, little other evidence exists in the data to confirm that the second alternative is definitely the explanation of the strong resistivity low.

The possible presence of a large conductive source cannot be totally ignored, especially if it occurs in the quartz-sericite schist. A quick cheap method to check this interpretation would be to extend SV1 by 50 to 100m, with the second black shale unit as a secondary target.

#### CONCLUSION

The very low tin values in core from both the shale sequence and the quartz-chlorite schist show that the mineralisation at surface has very little depth extent. The results of SV1 provide no encouragement to further follow-up the tin mineralisation in the trench.

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Provided it is feasible, and after the remainder of proposed holes are drilled, SV1 should be extended up to 100 metres to complete the test of the IP anomaly between 5100E and 5200E.

Submitted D.C. Simpson  
D.C. Simpson  
Geologist

Endorsed K.R. Yates  
K.R. Yates  
Chief Geologist

June 7, 1977

DCS:IMM

APPENDIX I

Drill Hole Record SV1

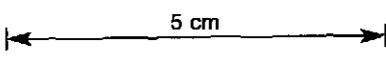


Feature: Bedding Shearing   
 Foliation Fault   
 Fragment size & shape Vein carbonate quartz

Mineralization: Trace 1-5%  
 Common 5-15%  
 Abundant 15-60%  
 Massive > 60%

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CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	FRAGMENTS	MINERALIZATION
		Not cored			
	4.0	Quartz sericite schist - probably of tuffaceous origin. Water-worn pebbles 0-5cm.			
	5.5	Interbedded sandstones and shales. Sandstone is fine to medium grained often sericitic and locally containing minor carbonate as disseminations and veinlets.			
	10	Shales generally grey to black, phyllitic in parts. Graphite developed on some planes.			
	20	Quartz vein with wallrock fragments (sst) and minor carbonate.			
	30	Interbedded sandstones and shales. Sandstones predominate. Some of the sandstones eg 32-35m, contain abundant carbonate (calcite on siderite) disseminated. Fractures at 65° to bedding and 40° to core axis contain calcite and possibly fine grained green tourmaline.  Graphite is common on shale cleavage.			Occasional specks of pyrite seen on fractures.
	40	Occasional veins, with minute <1mm quartz crystals, occur in sandstones. Core bedding angles 60-80°.			
	50	Quartz vein - similar to above vein and walls irregular.  As for 20-43.1 except less carbonate.			



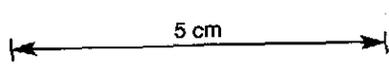
600

Feature: Bedding  Shearing   
 Foliation  Fault   
 Fragment size & shape  Vein   
 carbonate   
 quartz 

Mineralization: Trace 1-5%  
 Common 5-15%  
 Abundant 15-60%  
 Massive > 60%

309010

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	DEPTH m	MINERALIZATION
		<p>Grey shales with interbedded siltstones and carbonate beds.</p> <p>Medium grey shales showing strong graphitic cleavage.</p>			
	60	<p>Minor slumping is evident in parts. Some carbonate is in the form of beds - other is as veins often associated with quartz.</p> <p>Core bedding angle averages 70° although local variations occur.</p>			Minor dissem. py.
	70				
	80				
	90				
	100				Dissem. py Trace vein py.



010

Feature:

- Bedding
- Foliation
- Fragment size & shape
- Shearing
- Fault
- Vein
- carbonate
- quartz

Mineralization:

- Trace 1-5%
- Common 5-15%
- Abundant 15-60%
- Massive > 60%

309011

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
		<p><u>Quartz-sericite schist</u></p> <p>This is a fine grained pale green to pale grey foliated rock showing considerable tectonic metamorphic effect, eg rock particles are deformed to be up to 30 times as long as they are thick. Some sections are shaley eg ~112</p>							Rare py, po dissem. throughout also occasional py veins up to 5mm wide. Very rare galena specks in veinlets.
	110								
		<p>Quartz fragments constitute ~10% of the total rock - they are equigranular and angular. Feldspar fragments are characterised by diffuse grain boundaries.</p>							
	120								
		<p>Bedding where visible is parallel to schistosity at 70 to 80 degrees to core axis.</p>							
		<p>Up to 10% carbonate is developed locally this appears to be calcite or siderite.</p>							Small (2mm) vein sph
	130								
		<p>Quartz and/or carbonate veins developed locally - minor wallrock alteration is evident as slight silicification. These veinlets cut across foliation at angles up to 45°</p>							Tr. dissem po
	140								
		<p>Schist is assumed to be derived from vitric tuffs - see thin section report.</p>							
	150								

E.O.H.

5 cm

APPENDIX II

Assay Results DDH SV1

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## Assay Results DDH SV 1, Sterling Valley.

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Sample No.	From	To	% Sn	% Cu	% Pb	% Zn
138209	52.0	53.0	0.04	0.06	0.01	0.05
138210	53.0	54.0	0.01	0.12	0.01	0.05
138211	54.0	55.0	0.01	0.10	0.01	0.02
138212	55.0	56.0	0.01	0.08	x	0.01
138213	56.0	57.0	0.02	0.12	0.01	0.12
138214	57.0	58.0	0.02	0.14	0.01	0.06
138215	58.0	59.0	0.02	0.12	x	0.01
138216	59.0	60.0	0.02	0.16	x	0.01
138217	60.0	61.0	0.02	0.10	x	0.01
138218	61.0	62.0	0.02	0.10	x	0.01
138219	62.0	63.0	0.02	0.10	0.01	0.01
138220	63.0	64.0	0.03	0.12	x	0.01
138221	64.0	65.0	0.03	0.08	x	0.01
138222	65.0	66.0	0.04	0.08	x	0.01
138223	66.0	67.0	0.05	0.20	x	0.01
138224	67.0	68.0	0.04	0.10	0.01	0.01
138225	68.0	69.0	0.20	0.10	x	0.01
138226	69.0	70.0	0.02	0.18	0.02	0.12
138227	70.0	71.0	0.02	0.14	0.01	0.11
138228	71.0	72.0	0.02	0.06	0.01	0.10
138229	72.0	73.0	0.01	0.04	x	0.03
138230	73.0	74.0	0.01	0.10	0.01	0.02
138231	74.0	75.0	0.02	0.16	0.01	0.13
138232	75.0	76.0	0.01	0.14	0.01	0.13
138233	76.0	77.0	0.01	0.16	0.02	0.12
138234	77.0	78.0	0.01	0.12	x	0.04
138235	78.0	79.0	0.01	0.14	x	0.03
138236	79.0	80.0	0.01	0.12	x	0.05
138237	80.0	81.0	0.01	0.14	x	0.03
138238	81.0	82.0	0.01	0.16	x	0.03
138239	82.0	83.0	0.01	0.18	x	0.02
138240	83.0	84.0	0.01	0.14	x	0.02
138241	84.0	85.0	0.01	0.14	x	0.03
138242	85.0	86.0	0.01	0.14	0.07	0.10
138243	86.0	87.0	0.01	0.10	0.01	0.05
138244	87.0	88.0	0.02	0.14	0.01	0.04
138245	88.0	89.0	0.02	0.14	x	0.03
138246	89.0	90.0	0.02	0.10	0.04	0.09
138247	90.0	91.0	0.01	0.16	0.02	0.04

Sample No.	From	To	% Sn	% Cu	% Pb	% Zn
138248	91.0	92.0	0.02	0.16	0.01	0.03
138249	92.0	93.0	0.02	0.12	x	0.01
138250	93.0	94.0	0.02	0.10	0.01	0.02
138251	94.0	95.0	0.02	0.12	0.01	0.01
138252	95.0	96.0	0.02	0.12	0.01	0.02
138253	96.0	97.0	0.05	0.10	x	0.01
138254	97.0	98.0	0.02	0.04	0.01	0.01
138255	98.0	99.0	0.01	0.04	0.01	0.01
138256	99.0	99.8	0.01	0.02	x	0.01
138257	105.0	106.0	0.01	0.02	x	0.01
138258	110.0	111.0	0.01	0.02	0.01	0.01
138259	115.0	116.0	0.01	0.02	0.01	0.01
138260	120.0	121.0	0.02	0.02	0.01	0.02
138261	125.0	126.0	0.01	0.02	x	0.01
138262	130.0	131.0	0.01	0.02	x	x
138263	135.0	136.0	0.01	0.02	0.01	x
138264	140.0	141.0	0.02	0.02	0.01	0.01
138265	145.0	146.0	0.01	0.02	x	0.01

x = Below detection limit

Assays carried out by Abminco N.L. assay laboratory at Cleveland Mine,  
Luina, Tasmania.

APPENDIX III

MINERALOGICAL REPORT ON SAMPLES FROM SV1.

015

# Jan R. Pontifex & Associates

309016

TEL. 332 6744  
A.H. 31 3816

26 KENSINGTON ROAD, ROSE PARK  
SOUTH AUSTRALIA

P.O. BOX 91, NORWOOD  
SOUTH AUSTRALIA 5067

## MINERALOGICAL REPORT NO. 2155

3rd June, 1977

TO:

Mr. D. Simpson,  
Abminco N.L.  
P.O. Box 105,  
ZEEHAN, Tasmania 7469

YOUR REFERENCE:

Order No. 6112  
Charge S. Valley 1400

MATERIAL:

Drill core from one hole at  
Stirling Valley south of Tulleah

IDENTIFICATION:

88957 - 88962

WORK REQUESTED:

Petrographic description

SAMPLES & SECTIONS:

Returned to you by post to  
above address



PONTIFEX & ASSOCIATES PTY. LTD.

COMMENTS

All of these rocks have essentially the same genesis. Vague layering reflects a primary bedding, but this tends to be dominated by a cleavage, generally coincidental with bedding.

The primary rock consisted largely of glass, which is now devitrified to cryptocrystalline-microcrystalline quartz, locally mixed with ultra fine potash feldspar (most clearly manifest on the stained offcuts of 957, 959).

These devitrification products preserve the textures of a primary compact mass of glass sherds, which vary slightly in abundance throughout the suite from greatest to least in the following order : 962, 961, 960, 957, 959, 958. In 958 they may have been destroyed by slightly more intense metamorphic recrystallisation.

Tuff crystals of quartz, lesser plagioclase and potash feldspar are scattered throughout, in accessory abundance, except in 960 and 961 where they form 15% of the rock.

The other major component in all samples is sericite, as variably continuous, streaky, braided foliae through devitrified glass. At least some of this derived from thin, intercalated lutite material, which is carbonaceous in 958 and 959; but much of it also probably formed from glass.

.../

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Fragments of black shale are common in 960 and 961, (which also contain the most abundant tuff crystals).

The potash-felspar-carbonate-sphalerite-pyrite veinlets (+ essential chlorite in 960) may be tentatively considered to have a volcanogenic origin. Fine disseminated pyrite is fairly common.

Thus the rocks are primarily acid crystal vitric tuffs, which in view of abundant sherds may be considered ignimbritic. Superimposed metamorphic recrystallisation has produced (potassic) quartz sericite slates (or fine schists).

SV1 106.0 metres

88957: ignimbritic, rhyolitic (crystal) vitric tuff;  
(weakly sheared to quartz potash felspar  
sericite slate); minor quartz-carbonate-pyrite-  
sphalerite veinlets

This is a fairly homogeneous, very fine grained rock with thin layering at about  $45^{\circ}$  to the core axis. Accessory discontinuous veinlets of carbonate-sphalerite-pyrite are obvious in hand specimen. Staining the slide offcut indicates widespread distribution of fine potash felspar.

Petrologically the rock is seen to consist largely of a layered (bedded) compact mass of glass shards, which have devitrified to cryptocrystalline quartz. These occur within a matrix of cryptocrystalline quartz and potash felspar, intimately mixed with fine sericite - in shredded streaks due to minor shear, and thus forming a weak cleavage. This matrix also appears to be mainly altered glass, although minor argillaceous clastic material may contribute to the sericite.

Accessory small crystals of quartz, felspar, and carbonate are randomly scattered. Variably continuous veinlets composed of variable amounts of quartz, carbonate, potash felspar and generally lesser sphalerite and pyrite occur at random.

The rock is a predominantly vitric tuff with a minor "crystal" component. The abundant shards forming weakly sheared autaxitic texture indicates ignimbritic affinities. The veinlets probably represent deuteric-volcanogenic mineralisation.

SV1 113.8 metres

B8958: quartz sericite slate derived from an extremely fine, largely vitric acid tuff; minor streaks of carbonaceous-lutite material; minor veins of potash feldspar-carbonate carrying trace sphalerite

This is also a fairly homogeneous extremely fine-grained rock, with a fine layering and more or less coincidental cleavage oblique to the core axis. Staining of the section offcut indicates trace, extremely fine dispersed potash feldspar, with several erratic veinlets and a small vein composed largely of this mineral.

In thin section it is seen to consist of a compact sequence of streaky extremely fine schistose layers of sericite, with subordinate, microscopic, attenuated lenses of microcrystalline to cryptocrystalline quartz mosaic + trace potash feldspar. Thus the rock is a quartz-sericite slate, but the mode of occurrence of the quartz, compared with other samples in this suite, indicates that the original rock was a fine vitric tuff, but slightly more advanced shearing has destroyed primary shard textures.

Accessory, extremely small quartz and feldspar (tuff) grains, and small crystals of carbonate are scattered.

Fairly abundant (10-15%), streaky slivers of carbonaceous-lutite ("black shale"), occur sporadically along the cleavage, and indicates a contribution of extremely fine "clastic" material to the original rock. Much of the sericite may have a similar origin.

Small veins of well crystalline potash feldspar, minor carbonate and trace sphalerite occur through small fractures where incipient buckling and dislocation has taken place across the layering. These veins locally penetrate adjacent cleavages.

SV1 129.8 metres

88959: ignimbritic, rhyolitic (crystal) vitric tuff; metamorphically recrystallised to potassic quartz sericite slate; minor veins of quartz, carbonate, potash feldspar pyrite sphalerite and chlorite, notably a kink-dislocation axis across the cleavage

Macroscopically this core is vaguely layered, but this is dominated by a fairly well developed cleavage, in essentially the same plane, almost at right angles to the core axis. The cleavage is locally kinked with minor dislocation along an axis cutting sharply across the cleavage over a distance of about 50 mm. Staining of the slide offcut indicates that extremely fine potash feldspar is widespread as an essential component.

Petrographically it is seen to consist of streaky, shredded and braided, extremely fine sericite cutting through, and intimately mixed with cryptocrystalline to microcrystalline quartz and potash feldspar. Abundant, relict deformed shards are more abundant in some layers than in others, and defined by extremely small irregular clumps of devitrified glass densely clouded with secondary titanite minerals.

Accessory small (tuff) crystals of quartz and potash feldspar, also small slivers of "black shale" are randomly scattered along the bedding-cleavage. The kink-axis is occupied by a discontinuous "vein" of fine crystalline quartz, lesser chlorite, potash feldspar, carbonate pyrite and sphalerite. These components locally penetrate cleavages which have opened up adjacent to this "kink-axis".

SV1 138.4 metres

88960: ignimbritic, rhyolitic (crystal) vitric tuff; metamorphosed to (chlorite) quartz sericite slate; minor streaks of meta-lutite and black shale fragments; numerous quartz veinlets and a vein of chlorite-pyrite + minor quartz

This is an extremely fine grained rock with a fine-lenticular layering, including possible attenuated-perlitic textures, on a scale of about 15 mm, seen on the flat cut core surface to be virtually at right angles to the core axis. Cleavage appears to be at least partly independent of this layering and is oblique to the axis. Several, variably continuous chlorite-pyrite "veins" may be coincidental with cleavage, or locally in a plane independent of cleavage and layering.

In thin section the rock is seen to consist essentially of a layered, compact mass of devitrified and sericitised glass shards, i.e. an ignimbritic vitric tuff.

Minor streaky lenses of ultra fine quartz-sericite are probably metamorphosed lutite layers, and indeed several discrete fragments of lutite (slate) and black shale are present. Accessory small (tuff) quartz crystals are scattered.

Fine quartz veinlets + chlorite, generally along the cleavage are quite widespread. Small spots of chlorite, and a prominent vein of chlorite-pyrite + minor quartz cuts the rock.

SV1 143.1 metres

88961:

acid, crystal vitric tuff, with minor fragments of black shale; metamorphically recrystallised to quartz sericite slate; accessory disseminated pyrite

This is very similar to the rocks described above, but characterised by far more abundant quartz (and feldspar) crystals of tuffaceous origin, and by larger more clearly defined black shale fragments.

Shredded, streaky and braided, variably continuous foliae of sericite are ubiquitous through a patchy mass of cryptocrystalline to microcrystalline quartz and trace potash feldspar, which is essentially devitrified glass. Very abundant relict shards are poorly preserved in the devitrified glass.

Stressed, broken, subrounded, rarely euhedral and embayed small crystals of quartz, plagioclase and potash feldspar (total about 15%) are scattered throughout. Several fragments of black shale (3 x 10 mm) and trace small carbonate clumps are also present in the sericitic altered glass matrix.

Accessory extremely fine pyrite is fairly widely disseminated.

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309024

SV1 148.2 metres

88962: acid, crystal vitric tuff, recrystallised to quartz sericite slate, with minor fragments of black shale, and streaks of meta-lutite; single lens of "vein" quartz + trace sphalerite and barite; disseminated pyrite

Macroscopically, and in thin section, this core sample is very similar to 88961.

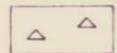
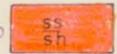
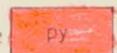
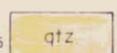
Streaky, fine braided, variably continuous foliae of sericite, in somewhat variable concentration in different layers are ubiquitous through a compact mass of devitrified glass shards. Small variably euhedral, broken and rarely embayed tuffaceous crystals of quartz, lesser plagioclase and potash feldspar (total about 15%) are randomly scattered, more or less along the layering.

Minor streaky lenses of concentrated sericite, appear to be after intercalated lutite. Minor small, discrete, angular fragments of black shale are also scattered. A short lens of "vein" quartz has trace sphalerite and barite associated with it. Accessory extremely fine pyrite is disseminated.



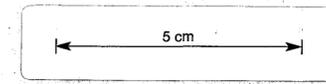
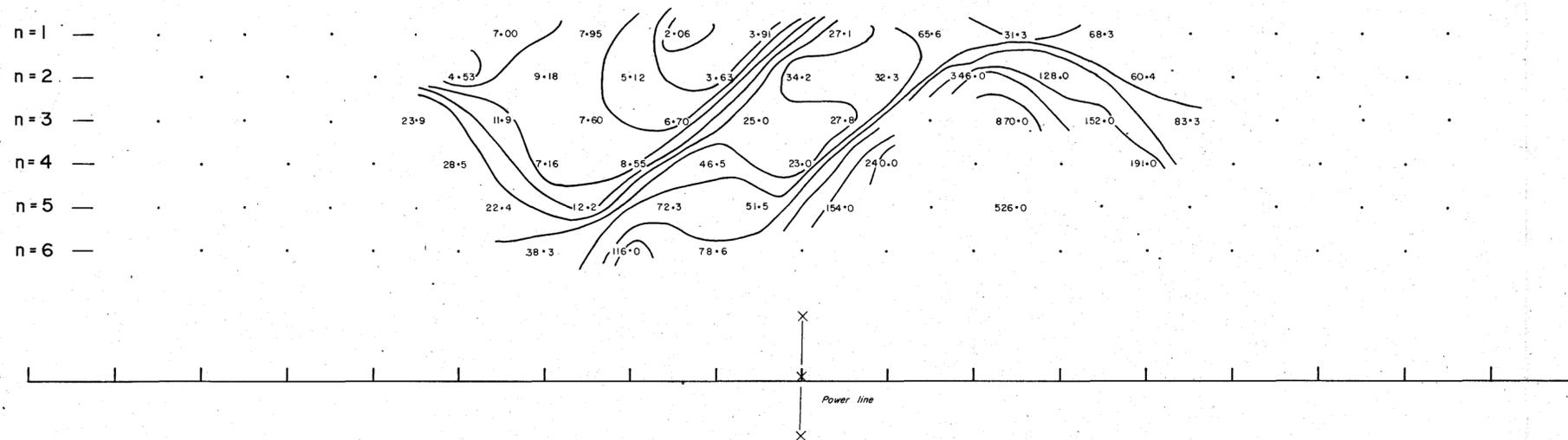
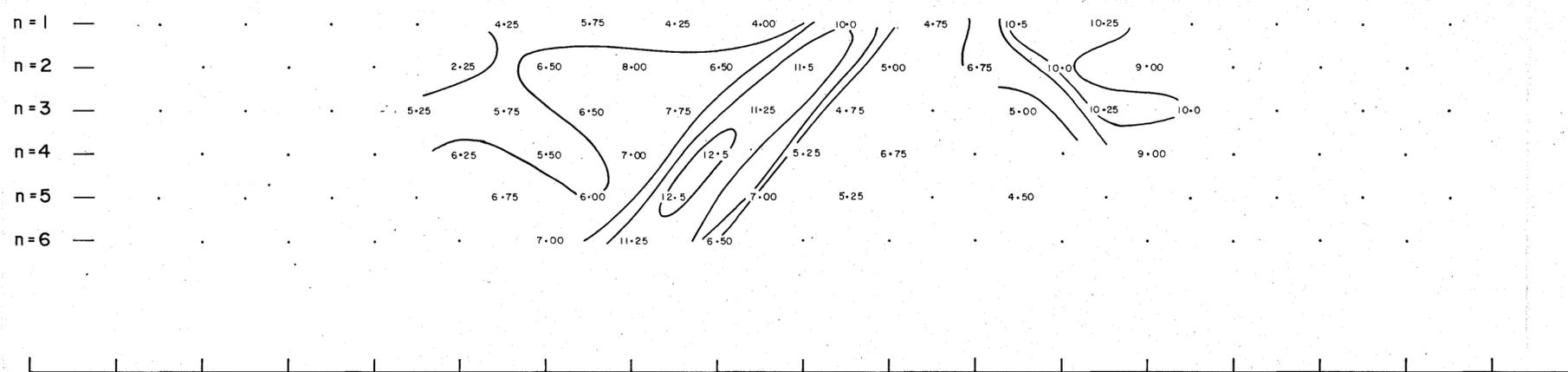
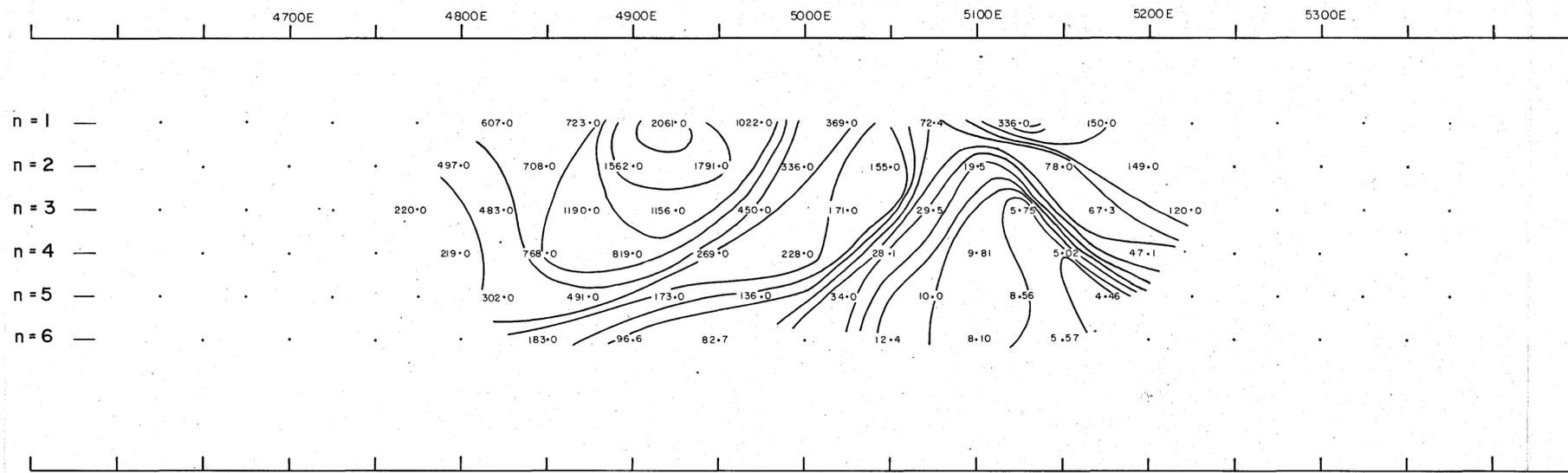


LEGEND

- 69  Shale
-  Breccia
- 45  Quartz-sericite schist
- 10  Interbedded sandstone and shale (ss predominates)
- 12  Pyrite
- 5  Quartz vein

309026      024

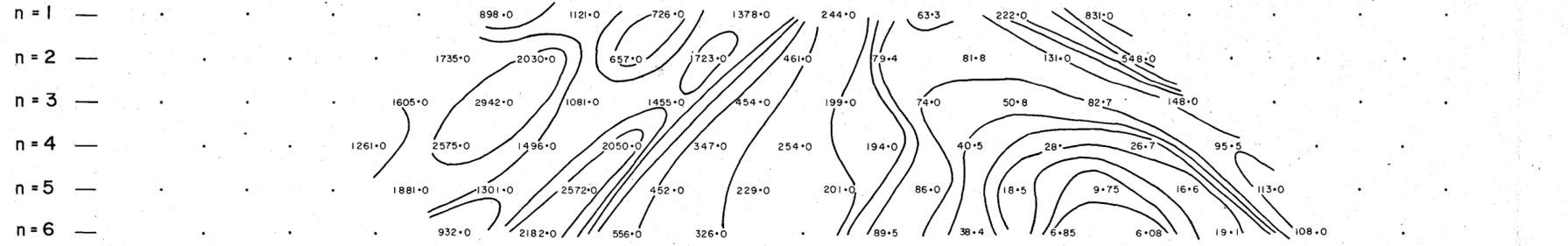
<b>ABMINCO N.L.</b>		78-1215
Drawn D.C.S.	NORTH WEST TASMANIA STERLING VALLEY Cross Section 4040N (looking north) Showing SV I & Surface Geology	Location code
Traced A.E.R.		Scale 1:500
Checked		Date May 1977
Revised _____ Date _____		Plate N° SV 15



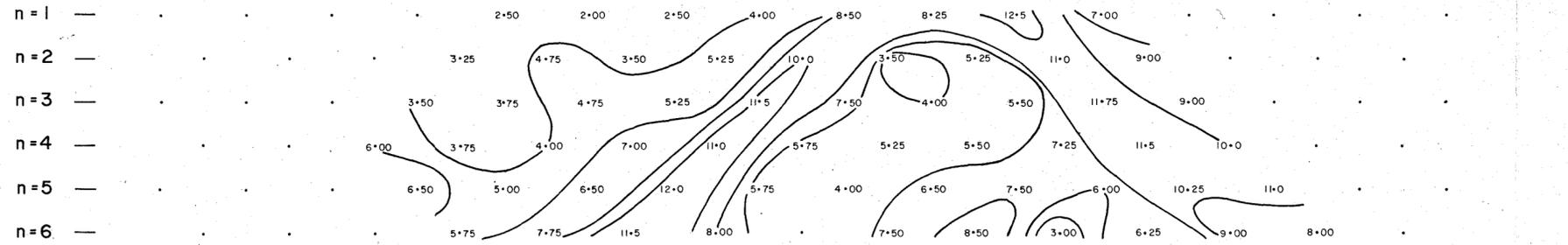
309027 025  
 77-1215

<b>COMINGO EXPLORATION PTY. LTD.</b>		NORTH WEST TASMANIA STERLING VALLEY TRAVERSE 4040 N FREQUENCY: 2.5 - 0.3      SPACING: 50 m	
Drawn by: Gequest Pty Ltd.	Traced by: P.F.		
Checked by:			
Location code:	Scale: 1:2,500	Date: October 1976	Plate: SV II

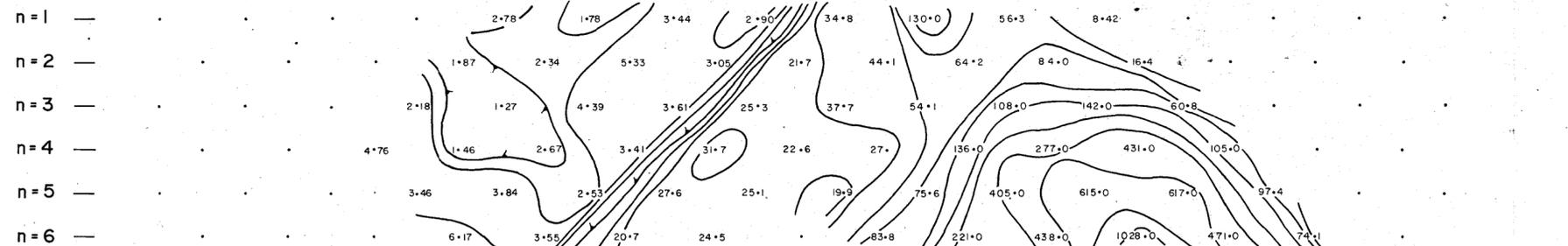
4825E 4875 E 4925E 4975E 5025 E 5075E 5125E 5175 E 5225 E



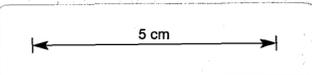
APPARENT RESISTIVITY - OHM METRES  
(Logarithmic contours)



PERCENTAGE FREQUENCY EFFECT (mV/V)  
(Linear contour interval)



METALLIC CONDUCTION FACTOR  
(Logarithmic contours)



309028 028

<b>COMINGO EXPLORATION PTY. LTD.</b> 77-1215	
Drawn by: Gequest Pty. Ltd.	Traced by: R.F.
Checked by:	
Location code:	
NORTH WEST TASMANIA STERLING VALLEY TRAVERSE 4040 N FREQUENCY: 2.5 - 0.3      SPACING: 25 m	
Scale: 1:1,250	Date: October 1976      Plate: SV 12