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EL 1413

TEETULPA GOLDFIELD

PROGRESS AND FINAL REPORTS TO LICENCE SURRENDER, FOR THE PERIOD 17/7/1987 TO 24/12/1987

Submitted by Thomdrill Pty Ltd 1988

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Enquiries: Customer Services Branch

Minerals and Energy Resources

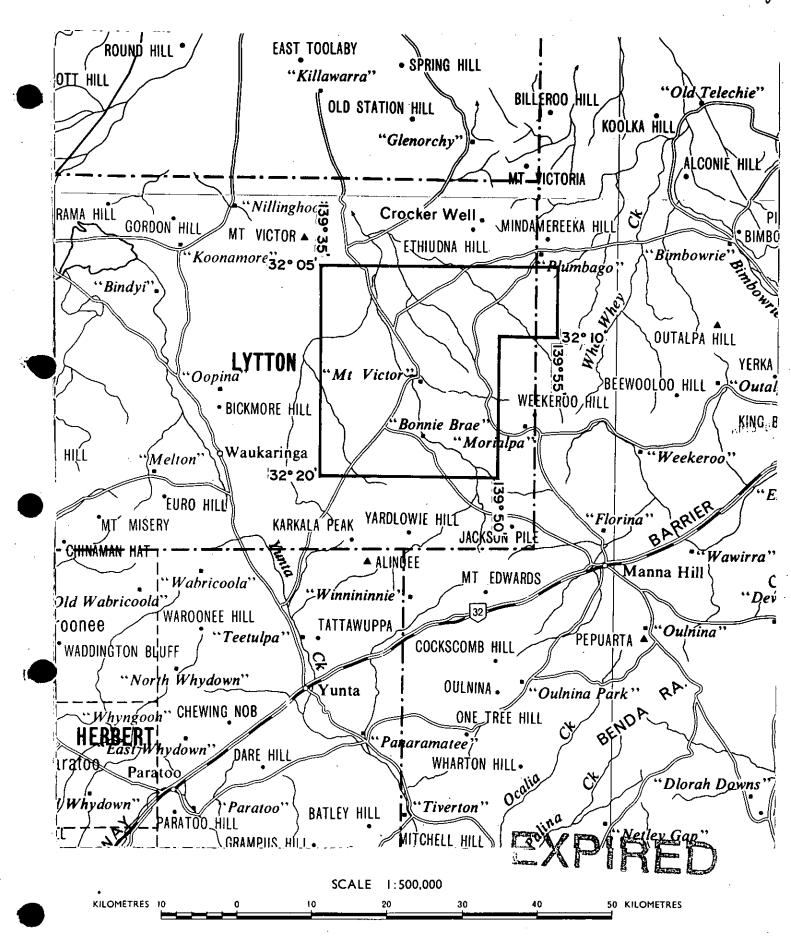
7th Floor

101 Grenfell Street, Adelaide 5000

Telephone: (08) 8463 3000 Facsimile: (08) 8204 1880



SCHEDULE A



APPLICANT: THOMORILL PTY. LTD.

DM: 94/87

AREA: 725 square kilometres (approx.)

1:250 000 PLANS: OLARY

LOCALITY: TEETULPA GOLDFIELD AREA - Approx. 40 km north of Yunta.

DATE GRANTED: 17-7-87

DATE EXPIRED: 16-1-88

EL No: 1413

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TENEMENT HOLDER: Thomdrill Pty. Ltd.

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l hompson Drilling

Regd. Proprietor — THOMDRILL PTY. LTD
5 Pambula Street, Regency Park, S.A. 5010
37 North Terrace, Millicent, S.A. 5280
Telephone: Adelaide (08) 268 5911. Fax (08) 45 5418
Millicent (087) 33 2044. Fax (087) 33 2824
Telex: 89457

15th December, 1987

Director- General Department of Mines and Energy P.O. Box 151 EASTWOOD SA 5063

Dear Sir,

FIRST QUARTERLY REPORT FOR E.L. 1413, TEETULPA GOLDFIELD

Enclosed is a report titled "First Quarterly Report on Exploration Licence 1413, Teetulpa Goldfield, South Australia, 17 July to 16 October 1987".

The licence was acquired to explore for leads of auriferous gravels beneath calcrete cap rocks.

During the report period, two seismic profiles and three drilling profiles comprising 28 RAB and R/C holes were completed. No gravels were found concealed beneath calcrete cap rock. The maximum gold assay for drill samples was 8.0 ppb. The prospectivity of the area was significantly diminished by these results.

Exploration expenditure for the period totalled \$13,659.00, which was incurred as a detailed on the attached Statement of Expenditure.

Yours faithfully,

D.A. WILSON Manager.



I hompson Drilling

0004

Regd. Proprietor — THOMDRILL PTY. LTD 5 Pambula Street, Regency Park, S.A. 5010 37 North Terrace, Millicent, S.A. 5280 Telephone: Adelaide (08) 268 5911. Fax (08) 45 5418 Millicent (087) 33 2044. Fax (087) 33 2824

Telex: 89457

EL 1413 **EXPENDITURE** STATEMENT

17 July 1987 to 16 October 1987

	\$
Contract Geological Services	2971
Laboratory Services	880
Geological Supplies	365
Drafting	113
Accommodation and Travel	416
Site preparation	300
Drilling	6914
Administration	1700
	\$13659

THOMDRILL PTY LTD

FIRST QUARTERLY REPORT ON

EXPLORATION LICENCE 1413

TEETULPA GOLDFIELD, SOUTH AUSTRALIA

17 JULY TO 16 OCTOBER 1987

Adelaide December 1987

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KEY WORDS

TEETULPA GOLDFIELD

E.L. 1413

OLARY SI 54-2

WINNINNIE 6833

SEISMIC REFRACTION

DRILLING

GOLD ASSAY

ALLUVIAL GOLD

1. INTRODUCTION

This is the first quarterly report for Exploration Licence 1413, Teetulpa Goldfield Area, being for the period ended 16 October 1987.

The E.L. covers an area of 725 square km, 40 km N of Yunta, on the Olary 1:250 000 map sheet. The licence was granted to Thomdrill Pty Ltd for a term of 6 months, commencing on 17 July 1987.

2. SUMMARY

A concept whereby auriferous gravels may have been concealed beneath a hard, calcrete cap rock was disproved by 2 seismic profiles and 28 open drill holes.

3. EXPLORATION CONCEPT

In 1908, H.Y.L. Brown suggested, on page 316 of the 4th edition of the Record of Mines of South Australia, that auriferous "Pliocene Leads" may pass under the alluvial flats of Salt Creek north of Brady's Gully. Prospecting shafts sunk in 1887 appeared

"not to have been bottomed, but to have been abandoned on reaching a hard calcareous cement and conglomerate".

Thomdrill's exploration concept centered on the possible presence of auriferous gravel leads beneath hard, calcrete cappings downstream from the alluvial gold workings in Brady's Gully and Strawbridge's Gully.

4. WORK COMPLETED

4.1 Seismic Profiles

SADME geophysicists ran 2 east-west, shallow refraction seismic profiles across Salt Creek. On Fig. 2, Seismic Line 1 is marked A-B and Seismic Line 2 is marked C-D. A departmental report on the results of the seismic survey is being prepared by SADME geophysicist P. Hough.

4.2 Drilling

Thompson Drilling completed 28 Rotary Air Blast and Reverse Circulation holes. These were sited along 3 traverses; one on each seismic line and a third across the mouth of Brady's Gully, where it enters Salt Creek (Fig. 2). Drill hole logs, with assay results, are included in Appendix I.

Holes 1 to 6 were drilled along Seismic Line 1 - see geological section, Fig. 3. Alluvial gravels were intersected in holes 4 and 5. Holes 1,2 and 3 intersected gravels that were either eluvium or very immature alluvium. Each hole bottomed in hard bedrock of greenish coloured shale. No hard calcrete layer was encountered.

Holes 7 to 16 were drilled along Seismic Line 2 - see geological section, Fig. 4. Alluvial gravels were intersected in every hole except No. 16, at the westernmost end of the line. The gravels in hole 15 were more immature than the others, and possibly indicated input from the Brady's Gully tributary. Holes 7,8, 9 and 10 bottomed in hard, grey shale bedrock after passing through as much as several metres of greenish, weathered shale. All other holes except No. 7.5 bottomed in the weathered shale. A very hard calcrete cap, about 1 m thick, was encountered in hole 11, but this cap lay on top of weathered bedrock, not above the gravel layer.

Holes 17 to 26 were drilled on a line bearing 143

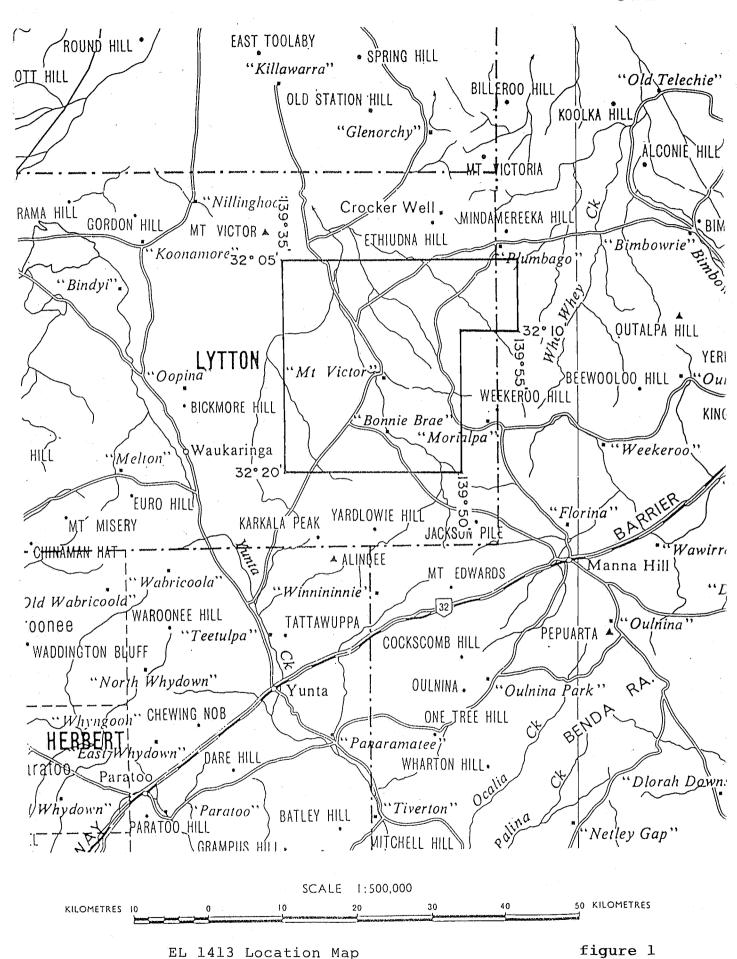
degrees (magnetic) across the mouth of Brady's Gully - see geological section, Fig. 5. Hole 27 was drilled 100 m NE (bearing 034 magnetic) of hole 22. Gravels were intersected in all except those at either end, holes 24 and 26. These gravels were, like those in hole 15, relatively immature compared to those along the rest of Line 2. Each hole bottomed in bedrock of weathered, greenish shale. No hard calcrete layer was encountered.

4.3 Assavs of Drilling Samples

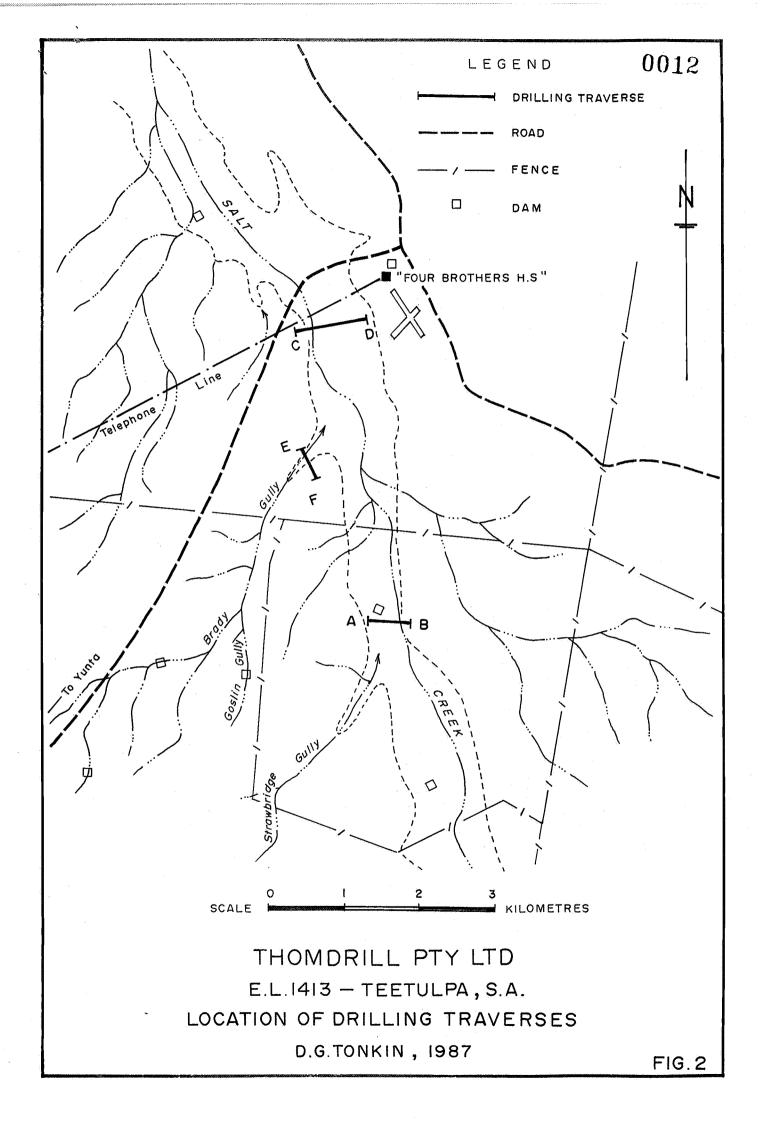
Comlabs (Adelaide) assayed for Au a total of 27 samples, collected from R/C drill holes, using a bulk leach technique with a detection limit of either 0.1 or 0.5 ppb. These assay results are included in Appendix II. Samples were selected from holes 4,5,15,17,21 and 27. All except one sample assayed in the range from 0.1 to 0.5 ppb. A sample from hole 4 yielded 8.0 ppb (see drill log in Appendix I).

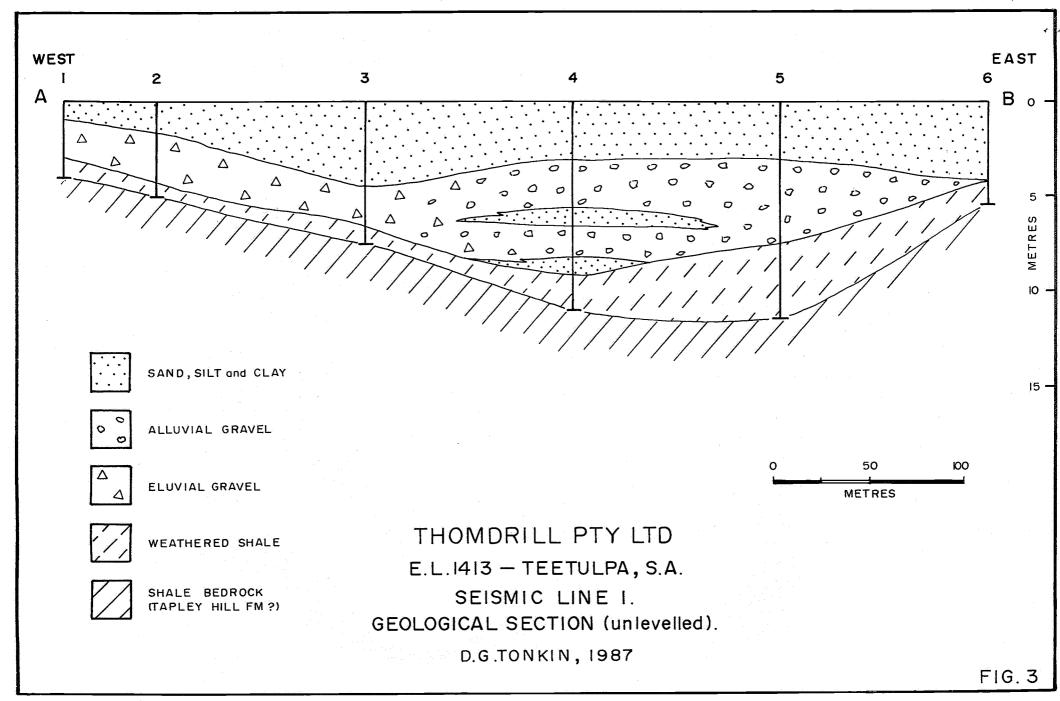
5. FUTURE WORK

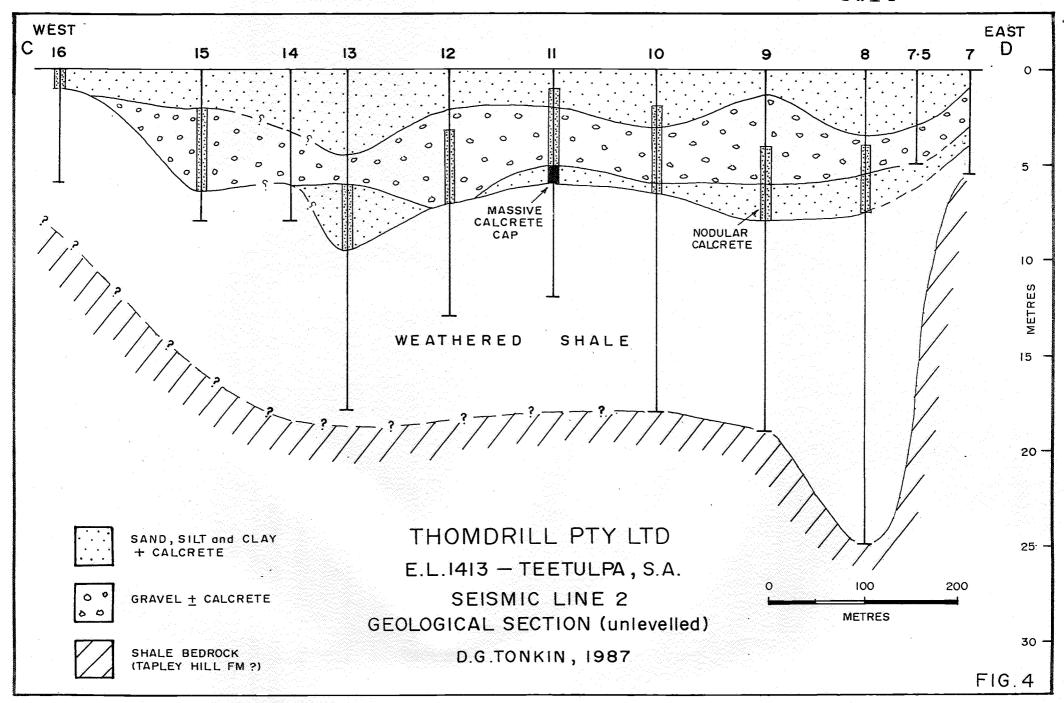
Drilling during the report period disproved the existence of "Pliocene Leads" beneath calcrete cappings downstream from Brady's and Strawbridge's Gullies. Future work will involve consideration of the hard rock Au potential, prior to a probable relinquishment of the title.

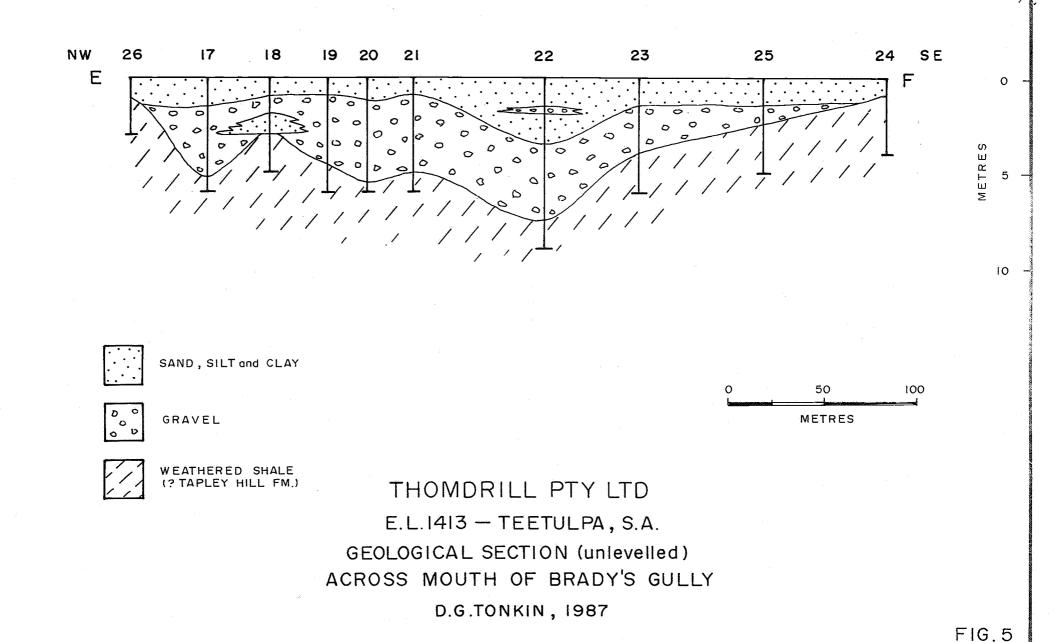


NOTE: There is no warranty that the boundary of this Exploration Licence is correct in relation to other features on the map. The boundary is to be ascertained by reference to the Australian Geodetic Datum.









APPENDIX I

DRILL LOGS FOR TEETULPA HOLES 1 TO 27

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HOLE No. /

0018 FIELD DRILL LOG PAGE / OF / TYPE OF DRILL: RIC PROJECT: TEET-VAPA DATE STARTED: 26.8.87 HOLE SIZE: 4 4 roller COORDINATES: AREA: LINE | SECSMIC CONTRACTOR: Thompson LOCATION: SPread 1 /2/13 DRILLER: Dean Wetts STARTED: // /3 ELEVATION: COMPLETED: 11:20 DEPTH: 5:0 M LOGGED BY: D. G. Tonkin ASSAYS SAMPLE Assay DESCRIPTION Metres Length Silt Silt + Eluvium of small angular pebbles me. guartz 2 Angular publics 3 More compacted clay than Qtz + shale pebbles. 4 Eluvium + clan Weathered bedrock - soft, greenish grey shale. 5.0 m Bedrock at EOH

HOLE No. 2

0019

HOLE No. 3

PAGE / OF / DATE STARTED: 25 . 8. 37 TYPE OF DRILL: R/C PROJECT: TEETULA HOLE SIZE: 44" Loss 37, 47.5 COORDINATES: AREA: LINE 1 SEISME LOCATION: SPREAD 2 , 12/13 CONTRACTOR: Thompson STARTED: 11.25 DRILLER: Dean Watts ELEVATION: COMPLETED: 12.25 LOGGED BY: D. G. Tonkin DEPTH: 7:5 m ASSAYS SAMPLE Assay Length DESCRIPTION Metres Silt Silf Silt / Clay clay/silt Clay / Si)t Eluvium - small angular pebbles st 2+ shale. some rounded. Elvvivn + dan Eluvium + clay to 6.75 Weathered bedrock - soft Grey siltstone / shale - have , fresh 7.5 EOH

0020 HOLE No.

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0022 HOLE No. 5

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FIELD DRILL LOG

HOLE No. 6

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DATE STARTED: 25 . 8 . 87 TYPE OF DRILL: RIC PROJECT: TEETULPA AREA: LINE / SEISMIC COORDINATES: HOLE SIZE: 4." LOCATION: SPICES 5 ,12/13 CONTRACTOR: THOMPSON STARTED: 5.50 DRILLER: D. WATTS ELEVATION:.... COMPLETED: 6.00 LOGGED BY: D.G. Tonkin DEPTH: 5 5 m ASSAYS Assay Length SAMPLE DESCRIPTION Metres Silt - dark brewn Silt - fine pinkish Weathered bedrock - soft green Weathered bedrack - as above Bedrock - greenish shale EOH 5.5m

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HOLE No. 7.5

0027

HOLE No. 8

PROJECT: TEETULPA TYPE OF DRILL: RAB COORDINATES: HOLE SIZE: Blade AREA: LINE 2 (CENTRE) LOCATION: SPREAD 7 12/13 CONTRACTOR: Thomason STARTED: 9.20 DRILLER: D. WATTS ELEVATION:.... COMPLETED: 10-20 DEPTH: 25.0 m LOGGED BY: D. G. TONKIN ASSAYS SAMPLE Assav DESCRIPTION Metres Silt 2 silty day 3 Silty clay Alluvial gravel - dinty grand = counded pepples } rounced peobles + sils rounded Inchas culcrete pubbles or possible د ک . (Parbles = Fallback?) El Flaky 603 Weatheren bedrock - V. soft khoki 8 Weathered shale - V. Soft As above

HOLE No. 5 FIELD DRILL LOG 0028 or 3 PAGE 2 PROJECT: TEETULPA DATE STARTED: TYPE OF DRILL: AREA:..... HOLE SIZE: COORDINATES: LOCATION:.... CONTRACTOR: STARTED: ELEVATION:.... DRILLER: DEPTH: 25-0 m LOGGED BY: D. G. TONKEN COMPLETED: SAMPLE No. ASSAYS Assay DESCRIPTION Metres Length shale - Ichaki V. soft 12 As above 13 Love chove 16 above above 18 -19.

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PAGE / OF 2

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OF 2

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FIELD DRILL LOG

0031 TYPE OF DRILL: PROJECT: DATE STARTED: AREA:..... HOLE SIZE: COORDINATES: LOCATION:..... CONTRACTOR: STARTED: ELEVATION:.... DRILLER: COMPLETED: 10:55 DEPTH: 19.0 W LOGGED BY: ASSAYS SAMPLE Assay DESCRIPTION Metres Length 111 /// 11 11 11 above 12 -13 . As above As about As where 17 about 18. 19. EOH 19.0 m

0032

HOLE No. 10

PAGE | OF 2

PROJECT: TEETULPA DATE STARTED: 26 8 87 TYPE OF DRILL: RAS HOLE SIZE: 41 " Blade COORDINATES: AREA: 1/46 2 (12/13) LOCATION: SPREAD 9 CENTRE CONTRACTOR: THOMPSON STARTED: 11.05 ELEVATION:.... DRILLER: D. WATTS COMPLETED: /30 DEPTH: /8.0 m LOGGED BY: D.G. TOWKIN ASSAYS SAMPLE Assay DESCRIPTION Metres Length Silt si)t Sult + 5 mail mounded peloles + omh colerete (= 5 roken peobles or nodules?) 3. Sibnamou Gtz pepples/normales of calcule hounded & bio ken 9+2 Gravel - ven dean Thin larger? of brittle pall gray chipo (limestone? le calcrete?) Barka in Khaki clay Weatheren bedrock - whole - green /// w eatheren bewoch - granish / school 11 As whove Ac above

0033

HOLE No. 10

OF 2 PAGE 2 PROJECT: TEETVLPA DATE STARTED: TYPE OF DRILL: COORDINATES: AREA:.... HOLE SIZE: LOCATION: CONTRACTOR: STARTED: ELEVATION:.... DRILLER: DEPTH: 18.0 m LOGGED BY: D. G. TONKIN COMPLETED: SAMPLE No. ASSAYS Assay Length Metres DESCRIPTION Weatheren shale - soft, green -Chapi As above 12 -′′′, 13 -LSOVe 16. As asove As مالمملو at 18.0 m. EOH

HOLE No. //

FIELD DRILL LOG

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PAGE 2 OF 2 PROJECT: TEGTULPA DATE STARTED: TYPE OF DRILL: COORDINATES: AREA:.... HOLE SIZE: LOCATION: CONTRACTOR: STARTED: ELEVATION:.... DRILLER: COMPLETED: DEPTH: 12.0 m LOGGED BY: ASSAYS SAMPLE Assay DESCRIPTION Metres No. Length 10 -Green - Ichari went herese shale As obove 12 -EOH

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PAGE / OF 2 DATE STARTED: 26.8.87 PROJECT: TEET JUPA TYPE OF DRILL: MAG COORDINATES: AREA: LINE 2 HOLE SIZE: LOCATION: SPREAD 11 3 12/13 CONTRACTOR: THOMPSON DRILLER: D. WASTS STARTED:.... ELEVATION:.... LOGGED BY: D.G. TONKIN COMPLETED: SAMPLE No. ASSAYS Assay DESCRIPTION Metres Length Rea 5114 Cos Prick 51/t Cos pessle 600 Cos = Weathered Htali day / silt

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PAGE 2 OF 2

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PAGE | OF / PROJECT: TEETULA DATE STARTED: 26 8 37 TYPE OF DRILL: RAB COORDINATES: HOLE SIZE: 42" blade AREA: LINE Z LOCATION: 25 m W of line and CONTRACTOR: Themeson STARTED: 3.55 DRILLER: D. WATTS ELEVATION:.... DEPTH: 6 M LOGGED BY: D.G. TONKIN COMPLETED: 4.00 ASSAYS Assay Length SAMPLE DESCRIPTION Metres Calcrete notules + soil (unial quanta (angular). 3 above As asove As above E04

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HOLE No. 21 RC

PAGE / OF /

		CT: TEETVLPA	DATE STARTED:	TARTED: 27. 1. 17 TYPE OF DRILL: R					R/C			
	AREA:	BRADY'S GULLY MOUTH	•••••				но	LE SIZ	E:,			
	LOCAT	TON: Twin of hole 21 RAB ED: (2 m away) near old pit	COORDINATES:		•••••		со	NTRAC	TOR: .	Tuto	m. P.S.?	~
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HOLE No. 22

PAGE / OF /

PROJECT: TEETULPA DATE STARTED: 26. 8.87 TYPE OF DRILL: NAB HOLE SIZE: 41 " COORDINATES: AREA: BRADY'S GULLY MOUTH LOCATION: 70 m SE of here! CONTRACTOR: THOMPS ON DRILLER: D. WATTS STARTED: ELEVATION: DEPTH: 9.0 m LOGGED BY: D.G. TONKIN COMPLETED: SAMPLE ASSAYS DESCRIPTION Metres Silt 5.11 10 1.5 m Gravel - coarse immature Silt / Clay Gravel - Coarse immature coasse to medium immature. Dirty matrix Graves Losing dilling air in formation armal - medium to fine (possibly gravel = fallback?) Weatheren shale - soft, green + fallback of sig, round 5/2 9 EOH

HOLE No. 22 RC

HOLE No. 23 0052 FIELD DRILL LOG PAGE (OF ! DATE STARTED: 26.8.87 PROJECT: TEETULPA TYPE OF DRILL: RAB AREA: BRADY'S GULLY MOUTH COORDINATES: HOLE SIZE: LOCATION: 50 m SE of hole 22 CONTRACTOR: THOMPS ON DRILLER: D. WATTS STARTED: ELEVATION: DEPTH: G.o m LOGGED BY: D.G. TONKEN COMPLETED: SAMPLE No. Assay ASSAYS Metres DESCRIPTION Length 0 -5:1+ Silf Graved - coase to medium 2 -Gravel - medeum Graves (+ calcuste? Weathered shale - green then Kharki soft. Weathered Shele - Ichelci

Evit

HOLE No. 24 FIELD DRILL LOG 0053 PAGE / OF / PROJECT: TÉETULPA DATE STARTED: 26 8 87 TYPE OF DRILL: RAB HOLE SIZE: 44 ½ " AREA. BRADY'S GULLY MOUTH COORDINATES: CONTRACTOR: THOMPSON LOCATION: 130 m SE of Like 23 DRILLER: D. WATS ELEVATION: LOGGED BY: D.G. TONKIN DEPTH: 4.0 m ASSAYS SAMPLE Assay DESCRIPTION Metres Silf Shole - Soft, grey 2 -Weatheren Shale - Suft, green 3 asove

HOLE No. 25

PAGE / OF /

0054

PROJECT: TEETULPA DATE STARTED: 26.8.87 TYPE OF DRILL: RAB HOLE SIZE: 41 " COORDINATES: AREA: BANDY'S GULLY MONTH LOCATION: 65m NE of hole 24

mid way between 32023
STARTED CONTRACTOR: THOMPSON DRILLER: J. WATTS ELEVATION:.... LOGGED BY: D. A. TONKIN DEPTH: 5-0 m COMPLETED: ASSAYS SAMPLE Assay DESCRIPTION Metres Length 5.14 5:14 1.5 m armel coane 0 Weatherea shale - soft, green chove asove Colt

HOLE No. 26 0055 FIELD DRILL LOG PAGE / OF / PROJECT: TEETULPA DATE STARTED: 26.8.87 TYPE OF DRILL: RAB COORDINATES: HOLE SIZE: 41 AREA: BRADY'S GULLY MONTH LOCATION: 40 m NW of hole 17 started: CONTRACTOR: THOMPSON DRILLER: D. WATTS ELEVATION: DEPTH: 3.0 m LOGGED BY: D.G. TOWKEN COMPLETED: ASSAYS SAMPLE Assay Metres DESCRIPTION Soil / silt above 3 -EOH

0056

FIELD DRILL LOG

DATE STARTED: 27 8 87 PROJECT: TEET ULPA TYPE OF DRILL: R/C COORDINATES: AREA: BRADY'S GILLY MUTH HOLE SIZE: CONTRACTOR: THOMISON DRILLER: DWATTS ELEVATION:.... DEPTH: 8 ™ LOGGED BY: D.G. TONKIN COMPLETED: 12.06.1m P.P.5 ASSAYS SAMPLE Assay DESCRIPTION Metres Length Au 0 -2/^ Red cla 1.0 (1) 0.2 2 0 1.0 0.2 0 (2) 3 0 1.00.2 (3) Graves (4) 1.0 Gravel 0.2 0 Gravel 0 (G) 1.0 Ó Weathered shele 1/5 EOH

APPENDIX II

GOLD ASSAYS FOR DRILLING SAMPLES



COMLABS SERVICES PTY. LTD.

305 South Road, Mile End South, South Australia 5031 Telephone (08) 43 5722 Telex LABCOM AA89323 Facsimile No. (08) 234 0321



NATA REGISTERED No. 1526

OUR REF.:

YOUR REF. OM 872134

11261

Mr. B. Supple, Thompson Drilling, 5 Pambula Street, Regency Park, S.A. 5011,

3rd September, 1987

Dear Bill,

RE: JOB COM 872134

Enclosed are the assays for the samples delivered to our laboratory on the 28th August, 1987.

Yours sincerely, COMLABS SERVICES PTY LTD

Report Length : 1 Pages

COMLABS SERVICES PTY. LTD.



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Job: COM872134 O/N: 11261

ANALYTICAL REPORT

SAMPLE	Au
T22 1 - 2	<0.5
T22 2 - 3	<0.5
T22 3 - 4	<0.5
T22 4 - 5	<0.5
T22 5 - 6	<0.5
T22 6 - 7	<0.5
T22 7 - 8	<0.5
T22 8 - 9	<0.5
T22 0-1	<0.5
T21 4-5	<0.5
T21 5-6	<0.5
TT17 4-5	<0.5
TT17 5-5.8	<0.5
TT5	<0.5
TT4 7-8	8.0
UNITS SCHEME	ppb AAS5D



COMLABS SERVICES PTY LTD.

305 South Road, Mile End South, South Australia 5031 Telephone (08) 43 5722 Telex LABCOM AA89323 Facsimile No. (08) 234 0321



NATA REGISTERED No. 1526

OUR REF. COM 872258

YOUR REFORDER No. 11282

Mr. D. Tonkin, Thompson Drilling, 5 Pambula Street, REGENCY PARK. S.A. 5011,

17.9.87

Dear David.

RE: JOB COM 872258

Enclosed are the assays for the samples delivered to our laboratory on the 9th September, 1987.

Yours sincerely.
COMLABS SERVICES PTY LTD

per

Report Length : 1 Pages

COMLABS SERVICES PTY. LTD.



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Job: COM872258 O/N: 11282

ANALYTICAL REPORT

SAMPLE	Au
TT21 1-2	0.4
TT21 2-3	0.2
TT21 3-4	0.2
TT27 1-2	0.2
TT27 2-3	0.2
TT27 3-4	0.2
TT27 5-6	0.2
TT15A 4-5	0.1
TT15A 5-6	<0.1
TT15A 6-6.1	0.2
TT4 5-6	<0.1
TT17 3-4	0.5
UNITS SCHEME	ppb AAS5D

DEPARTMENT OF MINES AND ENERGY SOUTH AUSTRALIA

000063

REPT.BK.NO. 88/15 SEISMIC REFRACTION SURVEY TEETULPA GOLDFIELDS

OIL, GAS AND COAL DIVISION

by

L.P. HOUGH GEOPHYSICS

MARCH, 1988

DME.25/86

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DEPARTMENT OF MINES AND ENERGY SOUTH AUSTRALIA

Rept. Bk. No. 88/15 D.M.E. No. 25/86 Disk No. 183

SEISMIC REFRACTION SURVEY TEETULPA GOLDFIELDS

ABSTRACT

Two seismic refraction profiles were recorded over an area adjacent to the Teetulpa Goldfield in the search for alluvial channels incised into an Adelaidean bedrock.

Interpreted depths to bedrock of 6-10 metres were confirmed by follow-up drilling at the time of the survey and while the gravel layers were not mappable a clear indication of the bedrock profile was provided.

Further use of the seismic refraction method is recommended in the Teetulpa area in the search for buried alluvial channels.

INTRODUCTION

During August, 1987, at the request of the Mineral Resources Section, the Geophysics Section of the South Australian Department of Mines and Energy conducted a shallow seismic refraction survey in the Teetulpa Goldfield area (Exploration License 1413) to test the method's application in outlining alluvial channels incised into an Adelaidean bedrock (Fig. 1).

The bulk of gold production from this field has been from river alluvium, the maximum depth of which was expected to be about 6-10 metres. The ancient alluvial deposits are known to be slightly offset from the present day drainage systems and have in places been left suspended at higher elevations than present stream channels.

A follow up drilling programme by the licence holders Thomdrill Pty Ltd, was planned to confirm the interpretation of the refraction survey.

TOPOGRAPHY

The Teetulpa Goldfield consists of several small valleys and their tributaries extending north from or across a series of headwater quartz reefs extending from about Hospital Hill in the north to Strawbridge Dam in the south (Sprigg 1968), (Fig. 2).

The country is essentially of low rolling hills composed of rocks of the Tapely Hill Formation.

The main alluvial gravel accumulations represent ancient drainage systems which are slightly offset from those of today. The present drainage systems mostly drain northwards into the wide flat expanses of Salt Creek.

GEOLOGICAL SETTING

Teetulpa Goldfield lies near the keel of the gently west-plunging Waukaringa Syncline. Flaggy, well-laminated blue-grey to green siltstones of the Upper Proterozoic Tapley Hill Formation are host to three distinct sets of quartz reefs. These reefs are identified by the 3 strike directions 340°, E-W, 70-80°. Only the set striking E-W are devoid of any sulphide mineralisation and are non gold-bearing.

The gold field is predominantly an alluvial field developed by the erosion of the quartz - sulphide veins. The currently worked alluvial channel represents a fossil stream bed with the modern day stream meandering across the old accumulations of poorly sorted silty gravels. Many of the leads now exist at slightly higher levels than the existing streams (Horn and Fradd 1986).

Much of the gold recovered in the area has been in the form of small nuggets lodged in erosional pockets within the slate bedrock (Sprigg 1968), close to the headwater area which contains the group of auriferous reefs.

With this in mind, there must exist the potential for the discovery of finer gold further to the north (downstream) in ancient placer deposits (Sprigg 1968).

PROCEDURE

Two east-west seismic profiles were recorded over Salt Creek, a major stream to the east of the present gold field workings.

Line 1, of approximately 550 metres in length, was sited near Tonkins well while Line 2 (approximately 4 kilometres to the north) was approximately 1 kilometre south of the Four Brothers Homestead and 750 metres in length. (Fig. 2).

The seismic spreads consisted of 24 geophones, spaced 5 metres apart with 7 shots recorded per spread. The shots were fired at the centre, midway between the centre and the ends, at the end and at a nominated distance off the end of each spread.

Shot holes were prepared using a vehicle mounted Gemco auger and maximum shot hole depth was 1.5 metres.

All records were digitally recorded onto magnetic tape via a Geometrics Model G-7245 tape recorder to facilitate later computer interpretation of the results.

INTERPRETATION

Procedure

Interpretation of results was carried out in the field on a NEC APC III computer. All field recordings were transferred to the computer's hard disk on which a programme adapted from the Generalised Reciprocal Method (G.R.M.) method of refraction analysis (Palmer 1980) facilitated the picking of first arrivals and interpretation of depths and velocities.

In this method of refraction analysis time-depth terms for refractor interfaces are isolated at each geophone position which is equivalent to the time taken for energy to travel along a normal to the refracting interface and through the recording geophone position.

To effect depth conversion to the refractor a composite depth conversion is calculated which involves a knowledge of time-depths and refractor velocities of all intermediate layers. Drilling control can be used where the depth to the important refractor in the drill hole is divided by the time-depth to that refractor as calculated in the data analysis. The use of drilling control is desirable wherever possible.

RESULTS

LINE 1

Line 1 (Spreads 1-5) was interpreted as a simple 2 layer case with an upper layer of velocity 270-460 m/sec and a lower interface of velocity 4440-5350 m/sec.

The upper layer was correlated with river alluvium composed of silts and gravels as observed in outcrop while the lower refracting inteface is correlated with fresh slates and siltstones of the Tapley Hill Formation observed outcropping on the hillsides and in the deeper sections of the creek channels.

Time-depth values to the fresh rock interface were plotted for geophone positions along the line (Fig. 3) and the resultant time section gives a qualitative indication of the greatest depths to the basement horizon or conversely the area of thickest river alluvium (e.g., over a 160 metre section covered by spreads 3 & 4).

Initial depth estimates of the fresh rock ranged from 5-7 metres below the surface along the deeper sections of the profile and in this zone a thin weathered bedrock layer of 3170-3390 m/sec could be interpreted.

These findings were confirmed by drilling at the time of the survey (see Appendix for drilling results) with the greatest accumulation of river alluvium being 9 metres beneath spread 3.

Depth conversion of the time depth values was effected using the drilling control and the resultant depth profile is shown in Fig. (3).

LINE 2

Line 2 (spreads 6-12) was interpreted as a standard 3 layer case with surface velocities (Vo) ranging from 220-520 m/sec, an intermediate layer with velocity (V1) of 2020-3250 m/sec and a basal layer with velocity (V2) ranging from 3630-5680 m/sec.

As with line 1, the upper velocity Vo was equated with surface material composed of soil plus alluvial silts and gravels

while the basal velocity V2 was correlated with a fresh bedrock interface. The intermediate velocity V1 was confirmed by drilling to be composed a highly weathered bedrock material.

Time-depth values for the V1 and V2 interfaces are plotted in fig (4) and show the greatest potential of channel development in the weathered bedrock beneath spreads 11 & 12 and possibly further west.

Preliminary depth estimates for line 2 indicated a depth of 2.5 - 5.0 metres for the weathered rock interface and from 14-25 metres depth to the fresh rock.

These results also were confirmed at the time of the survey by drilling. Gravel accumulations were found in all holes but, the best development of alluvial material was found beneath spreads 11 & 12 where thicknesses of 7 and 9 $\frac{1}{2}$ metres were intersected respectively (See appendix).

Drilling control was used to depth-convert the time-depth values and the resultant depth section to the weathered bedrock is shown in fig. (4).

It was found during drilling that a thin calcrete layer (less than 1 metre thick) was present which capped the weathered bedrock layer and in places was particularly well cemented. This possibly resulted in producing a slightly higher estimate for the weathered bedrock velocity (eg on spread 10, Vl was approximately 3200 m/sec).

Further drilling to the west on line 2 suggested that channel development was not evident and the survey was completed at this point.

CONCLUSIONS AND RECOMMENDATIONS

The seismic refraction survey was successful in outlining bedrock topography and hence highlight areas of possible alluvial silt and gravel development. Follow-up drilling confirmed the postulated bedrock profile and while the gravel layers were not mappable because of their insignificant velocity contrast with the surrounding silts and clays, a clear indication of maximum accumulations of river alluvium was given.

The depth control offered by the follow-up drilling programme proved invaluable in the depth conversion of the time section profiles.

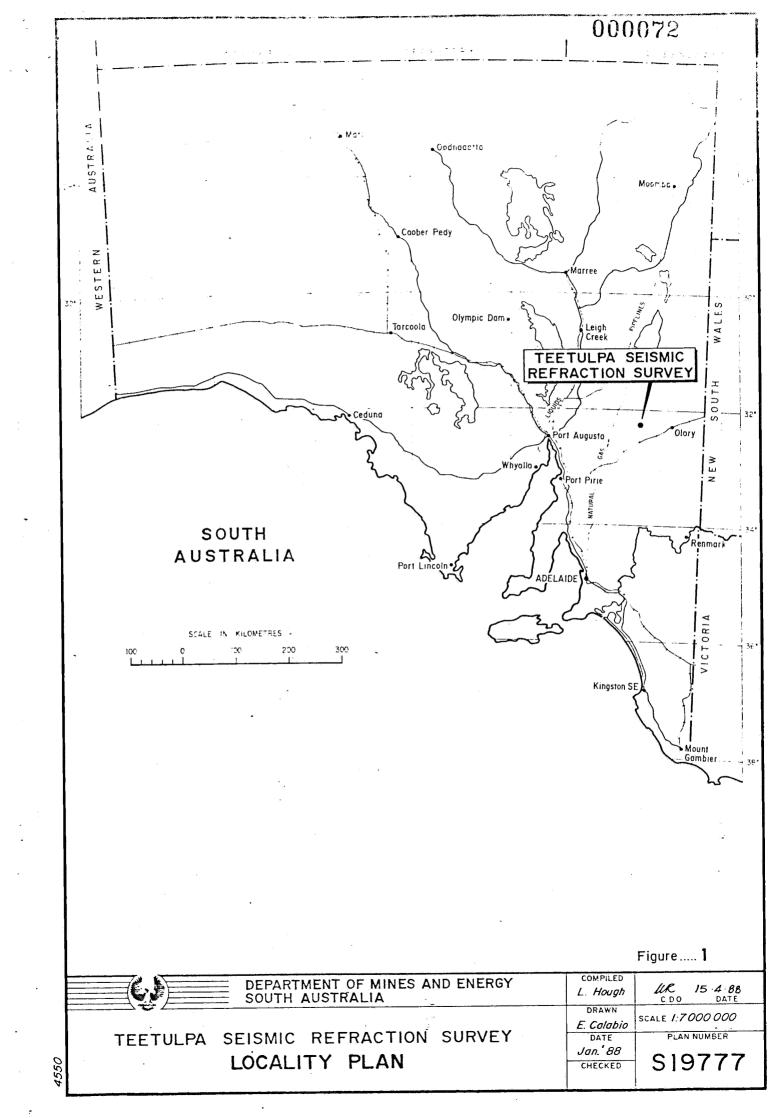
For a complete appraisal of the gold potential of the alluvial material a contour map of bedrock topography is required in order to estimate gross volumes of alluvium. Subject to the target size, in the shallower areas this can obviously be more effectively achieved by close spaced grid drilling but as depths increase the use of seismic refraction methods with follow-up drilling must be considered as an alterative.

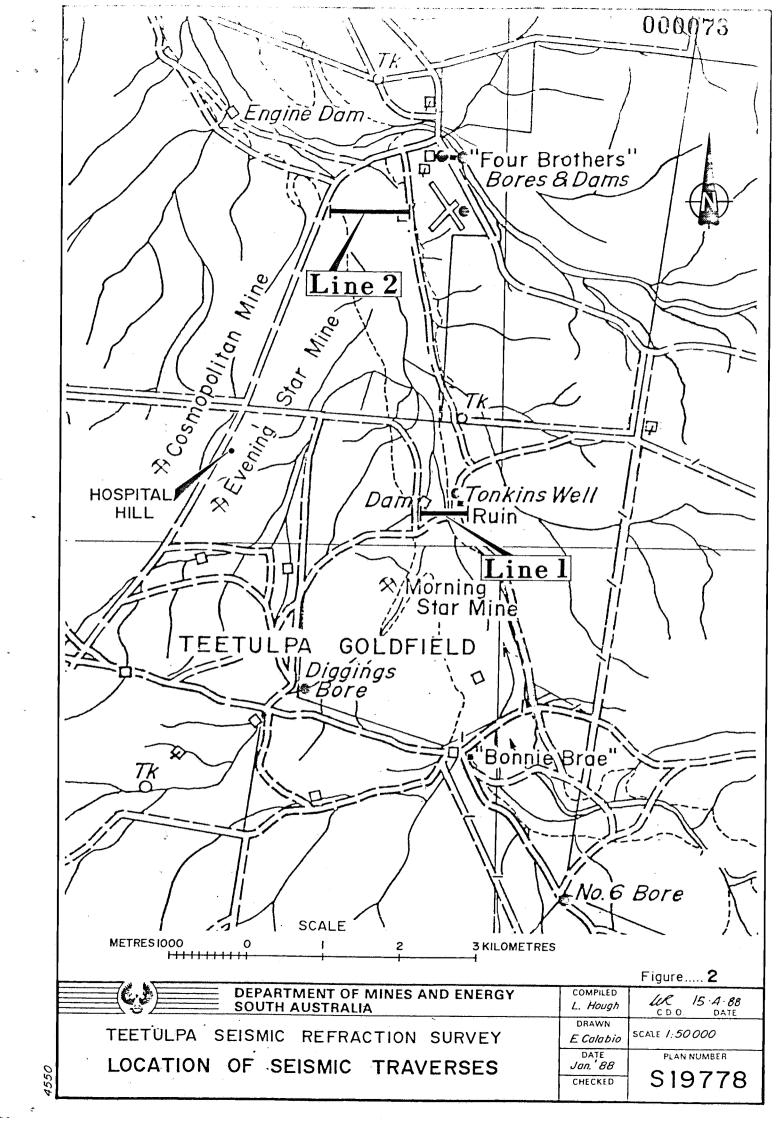
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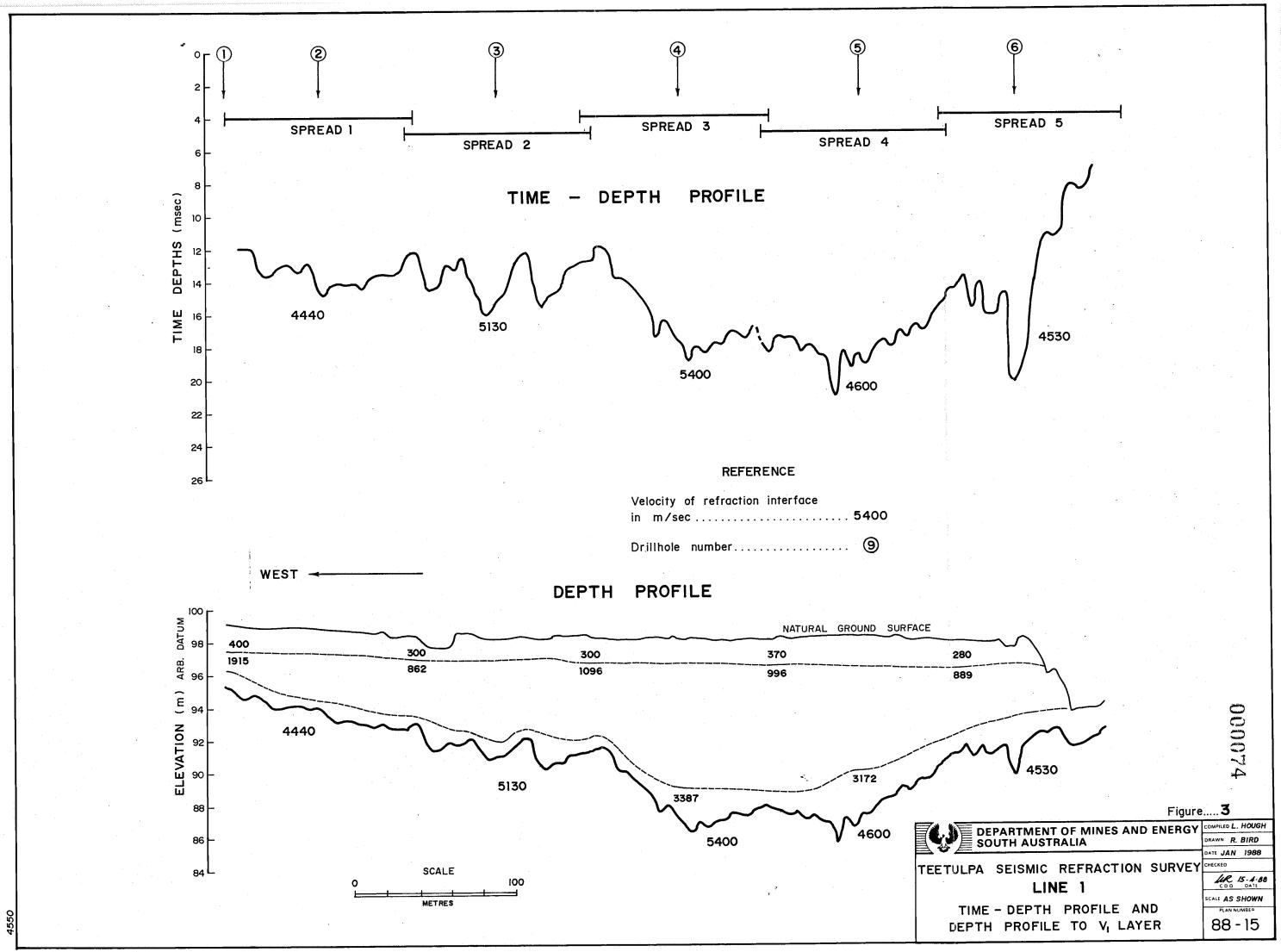
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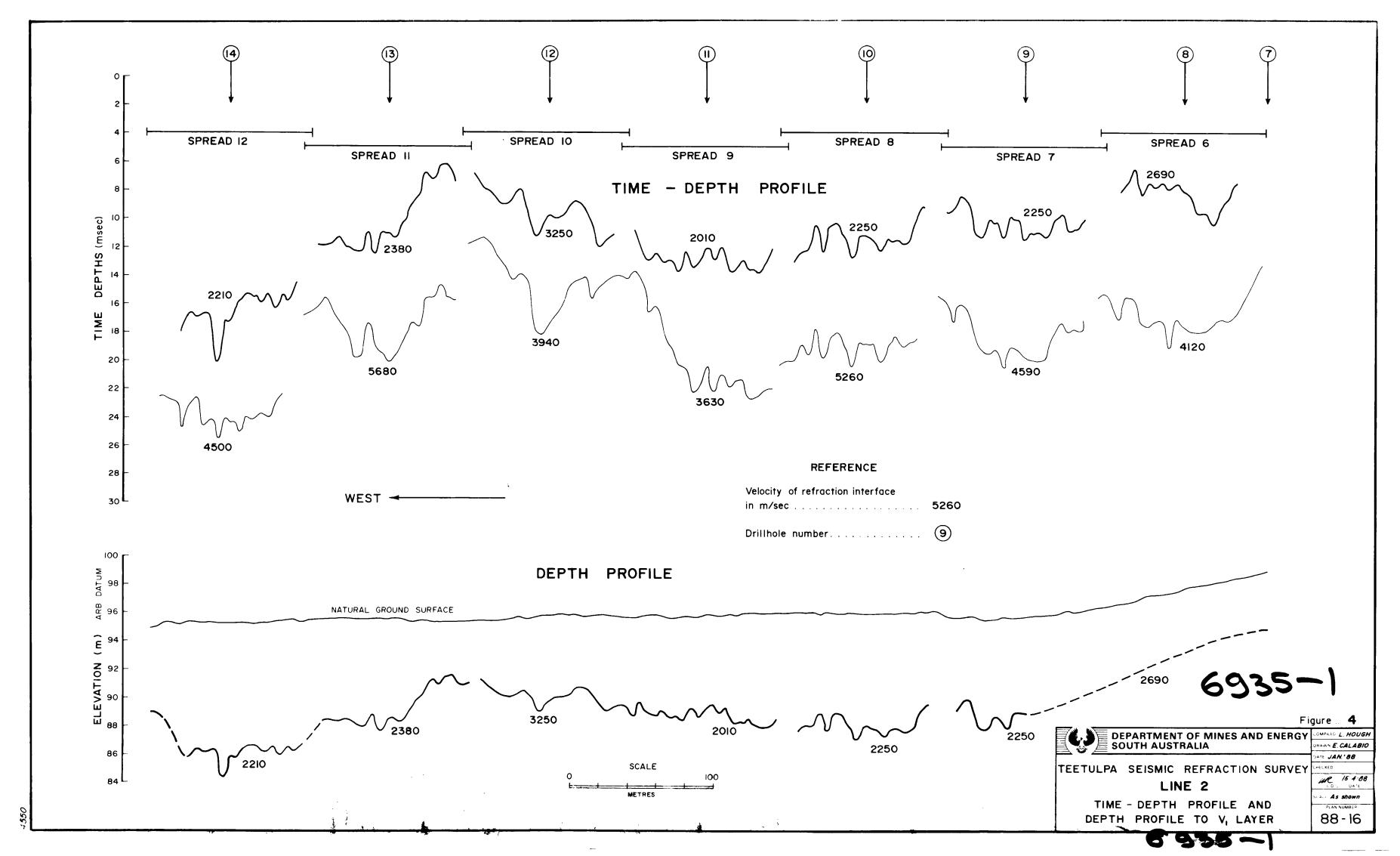
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Regd. Proprietor — THOMDRILL PTY. LTD.
5 Pambula Street, Regency Park, S.A. 5010
37 North Terrace, Millicent, S.A. 5280

Telephone: Adelaide (08) 268 5911 Fax (08) 455418

Millicent (087) 33 2044 Fax (087) 332824

Telex: 89457

23rd May, 1988

Director General of Mines
Department of Mines and Energy
P.O. BOX 151
EASTWOOD SA 5063

Dear Sir,

Re: EL1413 - Teetulpa

Our first quarterly report concluded "Future work will involve consideration of the hard rock gold potential, prior to a probable relinquishment of the title."

Gold and Mineral Exploration N.L., already active in the main Teetulpa field, were invited to participate. A review of data by G.M.E. failed to produce a worth-while target.

Accordingly, a decision to relinquish the E.L. was advised on 24/12/88.

Some drilling by G.M.E. to provide a water supply for test work on existing mineral claims occurred within the E.L. We are in the process of ascertaining if any data relevant to exploration was obtained from this work and will forward same if it exists.

Yours faithfully,

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D.A. WILSON Director.