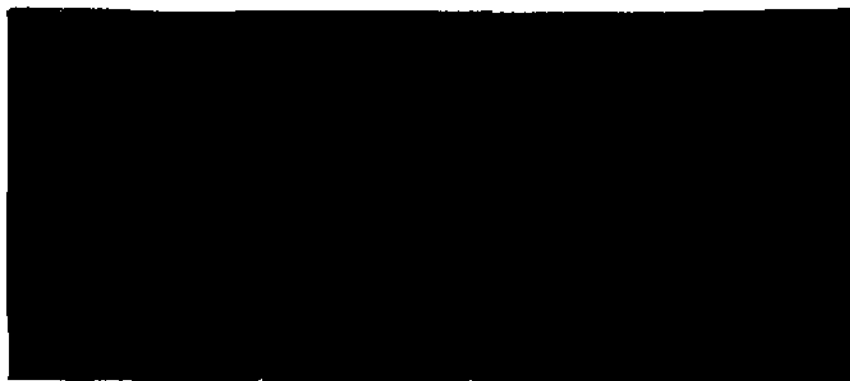


M 4499

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Item 2801



CSIR

Box 2939

SH 676

PROSPECT 6281

FIRST AND FINAL REPORT ON
EXPLORATION OF JAURDI EL 16/24
COOLGARDIE GOLDFIELD, W.A.

EMR 9/87

DECEMBER, 1986
PERTH, W.A.

G.C. STOKOE

COPY NO.

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KEYWORDS

WESTERN AUSTRALIA

EL 16/24

JAURDI

KALGOORLIE

1:250,000

SH 51-9

GABENYERING

2936

STREAM SEDIMENT

GOLD

COPPER

SILVER

ROCK CHIP

IRON

ZINC

ARSENIC

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LOCATION MAP JAURDI DISTRICT W.A.

0 80 160 240 320 Km

INDIAN OCEAN

PORT HEDLAND

DAMPIER

KARRATHA
WICKHAM

GOLDSWORTHY

MARBLE BAR

NULLAGINE

WITTENOOM

TOM PRICE

PARABURDOO

NEWMAN

• TELFER

Lake Disappointment

GASCOYNE RIVER

MURCHISON RIVER

MEEKATHARRA

WILUNA

Lake Way

CUE

Lake Austin

MT. MAGNET

LEINSTER

LAVERTON

LEONORA

Lake Baring

Lake Haxby

Lake Ballard

Lake Neora

JAURDI

SOUTHERN CROSS

MERREDIN

KALGOORLIE / BOULDER

KAMBALDA

Lake Lefroy

Lake Cowan

NORSEMAN

Lake Dundas

EUCLA

PERTH

FREMANTLE

NORTHAM

• CORRIGIN

MANDURAH

BUNBURY

KATANNING

ESPERANCE

AUGUSTA

MANJIMUP

ALBANY

SOUTHERN OCEAN

OCEAN

BOUNDARY

STATE

05

1. INTRODUCTION

CSR Limited was granted Exploration Licence (EL) 16/24 for a term of five years commencing on 10th December, 1985. The EL is known as the Jaurdi prospect and covers 50.6 km². The minimum prescribed annual expenditure is \$20,000. The tenement was relinquished on 2nd February, 1987.

2. LOCATION AND ACCESS



Exploration Licence 16/24 is approximately 20 km north of Jaurdi Homestead in the Coolgardie Goldfield (Figure 1). It lies approximately equidistant from Southern Cross and Kalgoorlie and is reached via the Trans Australian Railway Line access road to Jaurdi Homestead and thence by station tracks to Mt. Finnerty which is in the south-western corner of the tenement.

3. EXPENDITURE STATEMENT

<u>Title Acquisition and Maintenance</u>	\$	\$
Application Fees	1,622.00	1,622.00
<u>Logistics and Support</u>		
Survey, gridding, clearing	167.57	
Freight	5.47	
Field camp services	40.28	
Vehicle operations	1,206.60	
Camp provisions	310.44	
Equipment Depreciation	921.00	
Travel	264.50	2,915.86
<u>General Investigations</u>		
Maps, drafting	375.22	
Consultants	280.00	
Geochemical analysis	1,269.31	
Wages	1,191.15	
Computing	48.14	
Miscellaneous	2,993.65	6,157.47
<u>Field Salaries</u>		6,618.00
<u>Technical Services</u>		1,616.00
<u>Overheads</u>		5,526.38
		<hr/>
		\$24,455.71
		<hr/>

EL 16/24

LEGEND

- Ag granite
- Ab metabasalt
- As sediments
-  cherty sediments
-  fault

Ag

Ag

Ab

Argus
Wine

As

Ab

As

Ab

JAURO EL 16/24

INTERPRETED
SOLID GEOLOGY

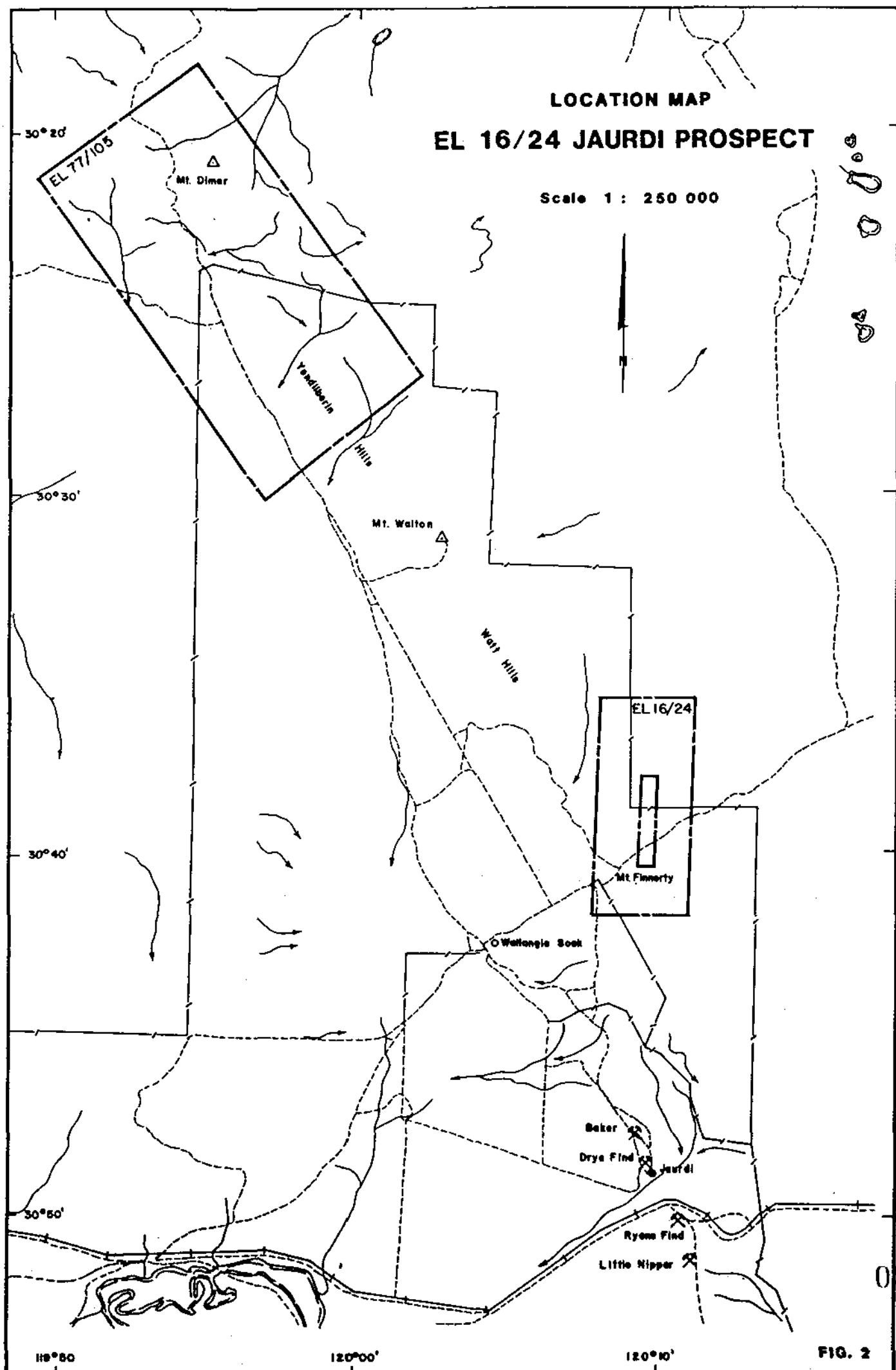
08

FIG. 3

Scale 1 : 50 000

LOCATION MAP
EL 16/24 JAURDI PROSPECT

Scale 1 : 250 000



4. GEOLOGY

The Jaurdi greenstone belt comprises a core of sediments flanked by mafic rocks with ultramafic lenses disposed in a north-trending synform. The contacts of the greenstone with the enclosing granitic rocks are probably sheared and strike faults are inferred within the belt. Cherts and BIF's within the central sedimentary layer crop out as prominent ridges some 50 m high. Sporadic outcrops of mafic and ultramafic rocks form low rises and granite monadnocks occasionally rise from the surrounding sandplain.

Surficial deposits are related to an eroded Tertiary laterite with the development of red clay over volcanic rocks, and sand over granite and sediments. Remnants of the duricrust are extensive and are seen in breakaways scattered through the area.

Historic gold production has been from Breakaway, Baker, Drys Find, Ryans Find and Little Nipper. These centres occur at the southern end of the Jaurdi belt (Fig. 2) and production has been minor.

5. EXPLORATION

Exploration of EL 16/24 has comprised reconnaissance geological mapping, drainage geochemistry and rock chip sampling. Fig. 3 is a map of interpreted geology. Argus' winze was sunk on a small quartz vein in altered amphibolite. Composite sampling of dump material returned 22.2 ppm Au. Such mineralisation is typical of the historic mining centres in the area, occupying small shears and having little potential for significant tonnage or continuity of grade.

Twenty (20) rock chip samples of quartz veined and altered material were taken from the area. Thirteen of these

EL 16/24

0.5

0.8

0.5

0.6

0.6

0.5

0.6

1.2

0.6

0.6

0.9

0.6

0.6

1.0

0.7

0.9

1.4

0.3

2.0

0.8

0.5

1.2

0.8

JAUARDI EL 16/24

AU HEADGRADE
IN 2kg SAMPLES (ppb)

Scale 1 : 50 000

FIG. 5

EL 16/24

212380

212379

212346

216460

216461

216459

212377

212378

212368

216458

216457

216456

212364

212363

212362

212366

212365

216475

216480

212370

212369

212371

212372

12

JAUARDI EL 16/24
SAMPLE LOCATIONS

0 1 2 Km
Scale 1 : 50 000

FIG. 4

were submitted to Analabs for analysis for Fe, Cu, Zn, Ag(AAS), As(Hydride/AAS) and Au(aqua regia/AAS). The other seven were submitted to SGS for analysis for As, Sb, Bi(hydride/AAS) and Au(fire assay)/AAS). Apart from a dump sample at Argus' winze (22.2 ppm Au) and a surface sample from the same area (0.12 ppm Au, 390 ppm As), no anomalous values were reported.

Twenty three (23) 2 kg stream sediment samples of -20# were sent to Perth Metallurgical Laboratories for CN leaching thence analysis for Au, Cu and Ag by AMDEL (Fig. 4). Again, no anomalies were evident (Fig. 5).

Geochemical analyses are given in Appendix I.

6. CONCLUSIONS AND RECOMMENDATIONS

Mineralisation in EL 16/24 is restricted to a small shear zone and would be of limited tonnage and erratic grades. It is recommended that no further work be undertaken on this tenement and the ground be relinquished.

APPENDIX I

GEOCHEMICAL ASSAY RESULTS



SAMPLE REPORT

ANALYTICAL DATA

SAMPLE NUMBER	SAMPLE CO-ORDINATE OR DRILL DEPTH	DESCRIPTION	ELEMENT METHOD DETECTION LIMIT	As	Cu	Ag						
				0.1ppb	0.1ppb	0.1ppb						
212380				0.5	0.2	11.0						
212361				0.5	0.6	7.5						
212362				0.7	1.3	6.5						
212363				1.0	0.9	7.5						
212364				0.6	0.4	5.5						
212365				0.6	0.6	6.5						
212366				1.1	1.0	10.0						
212368				0.9	0.9	7.0						
212369				0.5	0.6	5.5						
212370				0.8	0.9	7.0						
212371				0.8	0.7	5.5						
212372				1.2	1.2	12.0						
212377				0.6	0.6	<0.40						
212378				1.2	0.9	8.0						
212379				0.8	0.4	7.5						
216456				0.6	0.9	3.5						
216457				0.9	0.9	4.5						
216458				0.6	0.6	4.0						
216459				0.4	0.8	6.0						
216460				0.6	0.6	3.5						
216461				0.6	1.1	6.0						
216479				0.3	0.4	3.5						
216480				2.0	0.9	9.0						

PROJECT	SAMPLING RECORD	PLOTTING RECORD	DRILLING RECORD
PROJECT NAME: <i>HAUDI EL 16/24</i>	SAMPLED/LOGGED BY:	DRAWN BY:	DRILLER:
	MATERIAL: <i>2kg stream sediments</i>	DATE:	DATE:
	DATE: DEPTH:	PLAN No.	DRILLTYPE:
	LABORATORY: <i>AMDEL</i>	SCALE	COLLAR RL
PROJECT No.	LABORATORY REPORT No	PHOTO No.	HOLE No.
	C.S.R. ORDER No.	TRAVERSE BRG	AZIMUTH:

Exploration Group

SAMPLE REPORT

ANALYTICAL DATA

SAMPLE NUMBER	SAMPLE CO-ORDINATE OR DRILL DEPTH	DESCRIPTION	ELEMENT	Fe	Cu	Zn	As	Ag	Au
			METHOD	101	101	101	114	102	329
			DETECTION LIMIT	0.01%	5	5	1	0.1	0.02
212327	Approx 3 Km NW of Mt Finnerly trig. nr old camp at breakaway. 100 m S of camp.	Quartz and iron stone composite from strongly weathered outcrop. str. sh.		22.90	155	125	26	0.1	<0.02
328	Mt Finnerly trig.	Sit with minor qtz veining // to drag fold axes. composite.		30.30	15	70	8	0.2	<0.02
329	Approx 2 km SSW of Mt Finnerly trig.	Sit Qtz hematite veined on limb of drag fold. composite.		16.30	20	35	170	<0.1	<0.02
330	Near road line camp on N/S fence. 1.4 km N of cor.	purple brown ox. str. sh. bl. MV. (fol. direction 320-330°)		7.30	85	55	4	0.3	<0.02
331	As for 330	Strongly sheared fol. porphyrytic bi (fol. direction 320-330°)		2.00	30	15	2	0.5	<0.02
332	On N/S fence approx 3.5 km N of corner.	sheared cg porphyrytic MV float within sheared granite.		6.00	85	30	1	<0.1	<0.02
333	Approx 1.0 km SE of main track	Sit./Set with qtz veining.		5.30	10	10	5	0.3	<0.02
334	Approx 2.0 km SE of main track.	Sit /Set with minor qtz veining. 340/-080 NE		0.67	10	<5	1	<0.1	<0.02
212335	Approx 200 m N of 334	Set sheared and qtz veined on minor drag fold. Main strike 330-340° dips 80°W to west		0.63	10	<5	1	<0.1	<0.02

PROJECT	SAMPLING RECORD	PLOTING RECORD	DRILLING RECORD
PROJECT NAME: JAURDI.	SAMPLED/LOGGED BY: B. SMITH. MATERIAL: Rock chip. DATE: 17/5/85 DEPTH:	DRAWN BY: DATE:	DRILLER: DATE:
PROJECT No. 6281	LABORATORY: ANALABS. LABORATORY REPORT No.	PLAN No. SCALE: *	DRILL TYPE: COLLAR R.L.
	C.S.R. ORDER No. 42279	PHOTO No. TRAVERSE BRG.	HOLE No. PAGE 1/2



ALUMINIUM, MINERALS
AND CHEMICALS DIVISION

Exploration Group

SAMPLE REPORT

ANALYTICAL DATA

SAMPLE NUMBER	SAMPLE CO-ORDINATE OR DRILL DEPTH	DESCRIPTION	ELEMENT	A _s	SL	B _i	A _n				
			METHOD								
			DETECTION LIMIT								
23055		Very qtz fm qtz brecciated altered jaspillite		9	-	-	0.01				
23079		brecciated, brecciated qtz breccia in jaspillite		1	-	-	-				
23094		Slightly alt ^d (qtz-chlorite) amphibolite		-	-	-	0.02				
95		Altered amphibolite (float)		-	-	-	0.02				
96		Slightly ferruginous qtzite (float) near 243095		-	-	-	0.02				
97		V. and m. fine grained red & brn clay with x. texture		7	-	-	0.02				
98		Ferruginous qtz fm blow intruding 243097		-	-	-	0.02				

PROJECT	SAMPLING RECORD		PLOTTING RECORD	DRILLING RECORD	
OBJECT NAME:	SAMPLED/LOGGED BY: GS		DRAWN BY:	DRILLER:	CO-ORDINATES
2401, Mt Dimer, Mt HALTON	MATERIAL: Rock chip		DATE:	DATE:	
	DATE: SEP 85 DEPTH:		PLAN No.	DRILLTYPE:	
	LABORATORY: SGS		SCALE:	COLLAR R.L.	HOLE No. 17
OBJECT No. 6281, 6285, 6286	LABORATORY REPORT No.		PHOTO No.	DIP:	
	C.S.R. ORDER No. 42452		TRAVERSE BRG.	AZIMUTH:	

Exploration Group

SAMPLE REPORT

ANALYTICAL DATA

SAMPLE NUMBER	SAMPLE CO-ORDINATE OR DRILL DEPTH	DESCRIPTION	ELEMENT METHOD DETECTION LIMIT	Fe	Cu	Zn	As	Ag	Au		
				101	101	101	114	102	329		
212336	Approx 100m W of NNW/ESE fence on E slope of Lakeview hill.	α Silt with minor qtz veining.		0.01	5	5	1	0.1	0.02		
				21.20	35	35	2	0.1	<0.02		
212337	1.2 km W of junction of Angus track with main track.	Qtz with minor Fe oxide staining on contact of amphib with sh. MV. Shallow pit		1.10	15	5	6	<0.1	<0.02		
212338	Angus prospect.	Composite of weakly banded and Fe oxide stained qtz from ore dump.		2.50	275	10	4	0.2	22.20		
212339	0.8 km ENE of camp.	S. α . Silt with euhedral casts after pyrite on E margin of GN.		13.60	45	35	390	0.3	0.12		

PROJECT	SAMPLING RECORD	PLOTTING RECORD	DRILLING RECORD
PROJECT NAME: JAVE01.	SAMPLED/LOGGED BY: B. SMITH.	DRAWN BY:	DRILLER:
	MATERIAL: Rock CHIP.	DATE:	DATE:
	DATE: 17/5/85 DEPTH:	PLAN No.	DRILLTYPE:
	LABORATORY: ANALABS.	SCALE:	COLLAR R.L.
PROJECT No. 6281	LABORATORY REPORT No.	PHOTO No.	DIP:
	C.S.R. ORDER No. 42279	TRAVERSE BRG.	AZIMUTH:
			CO-ORDINATES
			18
			HOLE NO.
			PAGE 2/2.