

# OPEN FILE

AQUITAINE AUSTRALIA MINERALS PTY. LTD.

E.L. 893 'LEGUNE'

ANNUAL REPORT

FOR THE PERIOD ENDING 30TH APRIL 1976

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By: P.B. d'Auvergne  
July 1976,

MG: 695

ABSTRACT.

During the year an extensive rotary drilling programme to bedrock was undertaken on the black soil plains west of Legune Homestead. This programme which covered both E.L. 675 and E.L. 893 examined bedrock geology and geochemistry.

On E.L. 893 one significant lead anomaly was investigated by deep rotary drilling but the nature of the anomaly was not adequately explained.

During the year, 13 holes were drilled for a total of 480 metres.

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## 1.0 INTRODUCTION.

E.L. 893, consisting of 24 square minutes lies in the north-east corner of the Bonaparte Gulf Basin. The E.L. lies within National Map Series Sheet 4767 (Edition 1) of the Australia 1:100,000 topographical series. See Location Diagram - Figure 1.

The surface of the E.L. is covered mostly by black soil with occasional sandy patches and rare outcrops.

Mapping of the largest of the sandstone outcrops, known as Buffalo Hill, approximately 10 km. north of Legune Station, revealed a large fault bisecting the outcrop. Pebble horizons on the east of the fault and thin calcareous interbeds on the west were used to tentatively map the sandstones as Cockatoo and Burt Range Formations respectively. Drilling during 1975 failed to resolve whether both sandstone formations exist or not.

Rotary drilling in the area of Buffalo Hill prior to 1975 had encountered a grey-blue carbonaceous calcareous siltstone overlying the outcropping sandstone but the stratigraphic position of the two Formations was not able to be defined.

## 2.0 EXPLORATION ACTIVITY 1975.

Exploration on E.L. 893 during 1975 was limited to a short rotary drilling programme in the south of the E.L., extending from the border with adjacent E.L. 675 north-eastwards to Sweetwater Bore, 1.5 km. south of Buffalo Hill. Drill hole locations and numbers are shown on Figure 2.

The programme was undertaken in conjunction with a shallow rotary drilling/geochemistry programme on E.L. 675.

One strong geochemical lead anomaly was obtained and a deep stratigraphical rotary hole was drilled to examine the source of this anomaly. This hole was stopped at 105 metres.

### 3.0 SHALLOW ROTARY DRILLING.

Of the twelve shallow holes drilled, four failed to reach bedrock due to collapse of overburden into the hole.

The holes were drilled on 200 metre centres on lines spaced 1,000 m. apart. When bedrock was intersected the hole penetrated 2 - 5 metres into the bedrock and then stopped. The last 6 - 8 metres of the hole were sampled and assayed for lead and zinc. The twelve hole programme totalled 375 metres.

### 3.1 GEOCHEMISTRY.

Figures 3 and 4 show the bedrock lead and zinc geochemistry respectively.

Over much of E.L. 893 (and extending onto E.L. 675) lead and zinc values are seldom in excess of 50 ppm.

Elevated lead and zinc values (up to 76 ppm. and 210 ppm. respectively) occur over the Antrim Plateau gabbros and are not considered of interest.

Elevated zinc values of 72 ppm. and 94 ppm. in holes close to Buffalo Hill probably reflect mineral concentration in the fault zone as manganeseiferous rock chip samples collected from the brecciated material assayed up to 820 ppm. zinc.

In hole NBL 4004 lead assays exceeding 1.0% and corresponding zinc assays of up to 620 ppm. were found. No known stratigraphical or structural source exists to explain these.

#### 4.0 DEEP STRATIGRAPHICAL DRILLING

NBL 4013 was drilled 300 m north-west, i.e. down-dip, of NBL 4004 to examine possible stratigraphic control on the geochemical anomaly found in NBL 4004.

The hole intersected a series of shales, siltstones and sandstones. As samples from this hole were analysed by a different technique from the geochemical samples, results cannot be directly compared. Assays from NBL 4013 are all low and do not sufficiently explain the values found in NBL 4004.

#### 5.0 GEOLOGY.

On E.L. 675 shallow drilling encountered seven formations ranging from Precambrian in age through to lower Carboniferous (see d'Auvergne 1976 a).

These units dip north-westwards and are intersected by a series of faults trending north-eastwards. Movement on these faults has produced a series of unconformities within the Paleozoic sequence.

This stratigraphy continues onto E.L. 893 but the effect of faulting on stratigraphy does not appear as pronounced.

Only three of the formations recognised on E.L. 675 have been identified on E.L. 893 (see Figure 2). In the south-western corner of E.L. 893 suboutcropping Cambrian Volcanics were intersected but this unit was not encountered northwards due to the eastwards swing of the contact away from the drilling grid.

The Volcanics are overlain by a quartz sandstone containing thin calcareous layers and a blue-grey carbonaceous calcareous shale. Towards the north only the latter two formations were encountered.

## 6.0 CONCLUSIONS AND RECOMMENDATIONS.

The source of the geochemical anomaly in NBL 4004 has not been adequately explained. It does not appear that NBL 4013 intersected any downdip extension of this anomaly and NBL 4005 probably did not penetrate deep enough to intersect any possible downdip extension. Although NBL 4011 did not reach bedrock, zinc assays of up to 150 ppm. were encountered and may represent a lateral extension of the anomaly.

NBL 4013 may have been drilled too far west as a regular dip of approximately  $15^{\circ}$  along line 21 would place a unit at 24 metres in NBL 4004, at 105 metres in NBL 4013. Dips measured on outcrops in the Buffalo Hill area suggest a  $15^{\circ}$  west dip would be a minimum.

It is recommended that further investigation of the NBL 4004 anomaly be made by holes not more than 100 metres from the collar of NBL 4004.

For three kilometres south from line 19, the Antrim Plateau Volcanics and Precambrian form a lateral projection into the Paleozoic sediments. To the north of this projection only the upper-most of the formations found on E.L. 675 have been identified.

North of line 19 the base of the Paleozoic has not been encountered. It is possible that the lower formations could reoccur to the north of line 19.

The unit outcropping east of the Buffalo Hill fault may not be Cockatoo Formation but part of the Burt Range sandstone unit. If so, potential lower Burt Range units may lie concealed to the east of Buffalo Hill.

It is recommended that a profile of shallow holes be drilled eastwards from Buffalo Hill until the base of the Paleozoic sediments is encountered.



7.0 BIBLIOGRAPHY

D'AUVERGNE, P. (1975) E.L. 893, Legune, Progress Report,  
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E.L. 893, LEGUNE


Expenditure for the Year Ending 30th April 1976

Printing & Drafting Supplies	\$ 103.70
Salaries - Residents	162.56
Temporary Personnel	539.46
Permit Fees, Rentals	32.00
Aircraft Rental	151.18
Repairs & Maintenance Vehicles	48.50
Electricity & Gas	154.14
Accommodation, Meals & Misc. Expenses	82.55
Air Travel	227.88
Transport - Freight	6.50
Maps, Photos, Mosaics	29.43
Drilling	4,862.00
Mobilization - Demobilization	368.58
Consulting - SNPA	434.12
Drafting & Printing	109.00
Analyses	72.56
Minerals - Salaries	783.00
Mineral Dept. - General Expenses	202.00
Legal Dept. - Expenses	24.00
Administration Costs	1,131.00
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	\$9,524.16
	<hr/> <hr/>

APPENDIX.


ROTARY DRILL LOGS NBL 4001 - 4013.

# DRILLING LOG

PERMIT E.L. 893  STATE N.A.	P.D.H. NBL 4001 Location LINE 20/300N Azimuth Depression 	Hole drilled by DAVIES DRILLING Hole started 7.7.75 Hole completed 7.7.75 Hole logged by  J.S. Noakes
	VERTICAL	

DEPTH (metres)	SAMPLE NUMBER	DESCRIPTION	ASSAYS	
			Pb (%)	Zn (%)
0- 2		Black soils		
2- 4				
4- 6				
6- 8				
8-10				
10-12		Puggy clays and shales.Sandy at top.		
12-14				
14-16		Pale sandy clays		
16-18				
18-20		Chocolate clays and sands.		
20-22				
22-24				
24-26				
26-28		Mauve and grey sands and grey clayey		
28-30		sand.Some calcareous matrix in the		
30-32		clayey sand sequence,sand very fine	.0016	.0016
32-34		grained and subangular.	.0018	.0020
34-35			.0016	.0022


# DRILLING LOG

PERMIT E.L. 893  STATE  N.A.	P.D.H. NBL 4002 Location LINE 21/500N Azimuth Depression 	Hole drilled by DAVIES DRILLING Hole started 7.7.75 Hole completed 7.7.75 Hole logged by  J.S. Noakes
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DEPTH (metres)	SAMPLE NUMBER	DESCRIPTION	ASSAYS	
			Pb (%)	Zn (%)


DEPTH (metres)	SAMPLE NUMBER	DESCRIPTION	Pb (%)	Zn (%)
0- 2		Black soil		
2- 4				
4- 6		Red sandy clays		
6- 8				
8-10				
10-12		Yellow and white well sorted		
12-14		subrounded quartz sandstone. Minor		
14-16		red clays		
16-18			.0046	.0020
18-20			.0010	.0012
20-22			.0008	.0010

# DRILLING LOG

PERMIT E.L. 893 STATE N.A.	P.D.H. NBL 4003 Location LINE 21/700N Azimuth Depression  VERTICAL	Hole drilled by DAVIES DRILLING Hole started 7.7.75 Hole completed 7.7.75 Hole logged by J.S. Noakes
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DEPTH (metres)	SAMPLE NUMBER	DESCRIPTION	ASSAYS	
			Pb (%)	Zn (%)
0- 2		Black soils		
2- 4				
4- 6		Red sandy clays		
6- 8				
8-10				
10-12		Clear subrounded quartz grains in silica cement with rare green basic volcanic fragments. Sand is mature		
12-14				
14-16				
16-18				
18-20			.0008	.0008
20-22			.0010	.0010
22-24		.0014	.0010	

# DRILLING LOG

PERMIT E.L. 893  STATE N.A.	P.D.H. NBL 4004 Location LINE 21/900N Azimuth Depression  VERTICAL	Hole drilled by DAVIES DRILLING Hole started 8.7.75 Hole completed 8.7.75 Hole logged by J.S. Noakes
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DEPTH (metres)	SAMPLE NUMBER	DESCRIPTION	ASSAYS	
			Pb (%)	Zn (%)
0- 2 2- 4 4- 6		Black soils		
6- 8		Slightly sandy puggy clays		
8-10 10-12 12-14 14-16		Red clays with white translucent, well sorted, rounded quartz sand.		
16-18 18-20		White well packed fine grained mature quartz sands - rare pressure cement		
20-22 22-24 24-26		Very fine grained quartz sands as above. White-yellow, some yellow clay	1.0	0370
26-28		Chocolate muds - shales ?	1.15	0640
28-30		Sands as above	1.340	0120


# DRILLING LOG

PERMIT E.L. 893  STATE  N.A.	P.D.H. NBL 4005 Location LINE 21/1100N Azimuth Depression  VERTICAL	Hole drilled by DAVIES DRILLING Hole started 8.7.75 Hole completed 8.7.75 Hole logged by J.S. Noakes
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DEPTH (metres)	SAMPLE NUMBER	DESCRIPTION	ASSAYS	
			Pb (%)	Zn (%)
0-2 2-4 4-6 6-8 8-10 10-12		Black soils becoming sandier with depth.		
12-14 14-16		Brown clays and sands.		
16-18 18-20 20-22 22-24 24-26		Sands. Pale brown well sorted subangular quartz sandstone.	.0054 .0022	.0012 .0018
26-27		Very fine grained quartz sandstone with siliceous cement. Numerous purple spots possibly after oxidised pyrite.	.0070	.0022




# DRILLING LOG

PERMIT E.L. 893 STATE N.A.	P.D.H. NBL 4006 Location LINE 21/1300N Azimuth Depression  VERTICAL	Hole drilled by DAVIES DRILLING Hole started 8.7.75 Hole completed 8.7.75 Hole logged by J.S. Noakes
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
DEPTH (metres)	SAMPLE NUMBER	DESCRIPTION	ASSAYS	
			Pb (%)	Zn (%)
0- 2 2- 4 4- 6 6- 8		Surface black soils and brown sandy clays.		
8-10 10-12 12-14 14-16 16-18		Brown-black laminated dense puggy clays		
18-20 20-22		Red brown sandy clays		
22-24 24-26		Light yellow-brown dense puggy clays	.0020	.0340
26-28		Sandy clays	.0236	.0660
28-30 30-31		Pale yellow/translucent subrounded well sorted medium grained quartz sand.	.0016 .0032	.0080 .0028

# DRILLING LOG

PERMIT E.L. 893 STATE N.A.	P.D.H. NBL 4007 Location LINE 21/1470N Azimuth Depression 	Hole drilled by DAVIES DRILLING Hole started 8.7.75 Hole completed 8.7.75 Hole logged by J.S. Noakes
	VERTICAL	


DEPTH (metres)	SAMPLE NUMBER	DESCRIPTION	ASSAYS	
			Pb (%)	Zn (%)
0- 2		Brown-grey sandy soils and clay.		
2- 4				
4- 6				
6- 8		Black soils and clay		
8-10		Brown muds, clays and sands		
10-12				
12-14				
14-16		Dense puggy clays becoming sandier		
16-18		and less puggy with depth.		
18-20				
20-22				
22-24				
24-26				
26-28		Pale yellow/translucent subrounded		
28-30		well sorted medium grained quartz sand.		
30-32			.0010	.0044
32-34			.0010	.0056
34-35			.0006	.0035

# DRILLING LOG

PERMIT E.L. 893 STATE N.A.	P.D.H. NBL 4008 Location LINE 20/550N Azimuth Depression  VERTICAL	Hole drilled by DAVIES DRILLING Hole started 8.7.75 Hole completed 8.7.75 Hole logged by J.S. Noakes
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DEPTH (metres)	SAMPLE NUMBER	DESCRIPTION	ASSAYS	
			Pb (%)	Zn (%)
0- 2		Black soils		
2- 4				
4- 6				
6- 8				
8-10		Dense puggy grey-brown clays		
10-12				
12-14				
14-16				
16-18		Red sandy clays.		
18-20				
20-22		Pale yellow/translucent subrounded		
22-24		well sorted medium grained quartz		
24-26		sand		
26-28				
28-30				
30-32			.0016	.0170
32-34		Brown-grey clays and sands-shales(?)	.0028	.0060
34-35			.0034	.0080

# DRILLING LOG

PERMIT E.L. 893 STATE  N.A.	P.D.H. NBL 4009 Location Line 20/700N Azimuth Depression  VERTICAL	Hole drilled by DAVIES DRILLING Hole started 9.7.75 Hole completed 9.7.75 Hole logged by J.S. Noakes
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DEPTH (metres)	SAMPLE NUMBER	DESCRIPTION	ASSAYS	
			Pb (%)	Zn (%)
0- 2		Black soil		
2- 4				
4- 6				
6- 8		Dense puggy clays		
8-10		Brown dense slightly sandy puggy clays		
10-12				
12-14				
14-16		Yellow clays with translucent		
16-18		subangular to subrounded quartz grains.		
18-20			.0014	.0018
20-22			.0002	.0010
22-23		Hole abandoned because of closing in of clays, jamming drill rods.	.0002	.0010

# DRILLING LOG

PERMIT  E.L. 893 STATE  N.A.	P.D.H. NBL 4010 Location LINE 20/900N Azimuth Depression 	Hole drilled by DAVIES DRILLING Hole started 9.7.75 Hole completed 9.7.75 Hole logged by  J.S. Noakes
	VERTICAL	


DEPTH (metres)	SAMPLE NUMBER	DESCRIPTION	ASSAYS	
			Pb (%)	Zn (%)
0-2		Black soils		
2-4				
4-6				
6-8				
8-10		Dense brown puggy clays.		
10-12				
12-14				
14-16				
16-18				
18-20		At 19 m, clays becoming sandy.		
20-22				
22-24		Yellow/translucent subangular to		
24-26		subrounded quartz sand		
26-28				
28-30				
30-32				
32-34				
34-36				
36-38		Unconsolidated recent sands containing many small shells and sponge spicules	.0004	.0014
38-40		White and mauve/translucent fine grained subangular to subrounded pyritic quartz sandstone.	.0012	.0032

# DRILLING LOG

PERMIT  E.L. 893  STATE  N.A.	P.D.H. NBL 4011 Location LINE 20/1100N Azimuth Depression  VERTICAL	Hole drilled by DAVIES DRILLING Hole started 9.7.75 Hole completed 9.7.75 Hole logged by  J.S. Noakes
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DEPTH (metres)	SAMPLE NUMBER	DESCRIPTION	ASSAYS	
			Pb (%)	Zn (%)
0-2		Black soil		
2-4				
4-6				
6-8				
8-10		Dense puggy clays		
10-12				
12-14				
14-16		Red sandy clays		
16-18				
18-20		Yellow sandy clays		
20-22				
22-24				
24-26		Chocolate brown mud		
26-28				
28-30				
30-32				
32-34				
34-36			.0050	.0150
36-38			.0032	.0100
38-40			.0026	.0106
		Bedrock not reached		

# DRILLING LOG

PERMIT E.L. 893  STATE  N.A.	P.D.H. NBL 4012 Location LINE 19/300N Azimuth Depression 	Hole drilled by DAVIES DRILLING Hole started 9.7.75 Hole completed 9.7.75 Hole logged by  J.S. Noakes
	VERTICAL	

DEPTH (metres)	SAMPLE NUMBER	DESCRIPTION	ASSAYS	
			Pb (%)	Zn (%)
0- 2		Black soils		
2- 4				
4- 6				
6- 8				
8-10		Dense puggy clays		
10-12				
12-14				
14-16				
16-18				
18-20				
20-22				
22-24				
24-26		Calcrete		
26-28				
28-30		At 29 m. weathered pyroxene gabbros.		
30-32			.0050	.0210
32-34				


# DRILLING LOG

PERMIT E.L. 893 LEGUNE STATE  N.A.	P.D.H. NBL 4013 Location L21 - 1200N Azimuth Depression  VERTICAL	Hole drilled by DAVIES DRILLING Hole started 4.9.75 Hole completed 5.9.75 Hole logged by  W.G. Morris
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DEPTH (metres)	SAMPLE NUMBER	DESCRIPTION	ASSAYS	
			Pb (%)	Zn (%)
0-2 2-4 4-6 6-7		Fine grey silt overburden.		
7-8 8-10 10-12 12-14		Grey brown clods of clay - probably weathered shale.		
14-16 16-18		Weathered interbedded shale and sandstone (clay and sand) - some FeO induration.		
18-20 20-22 22-24 24-26 26-27		Very hard silicified qtz sandstone with some shaly bands and minor FeO induration.		
27-28 28-30 30-32 32-34 34-36 36-38 38-40 40-42		Brown-grey clay and silt (weathered shales and siltstone.)	.15	.45
42-44 44-46		As above but some harder clay clods.		
46-48 48-50 50-52 52-54 54-56 56-57		Weathered porous dolomite cemented qtz sandstone and clays and some ironstone.	.20	.45
57-58 58-60		Dark brown clay and ironstone.	.15	.30
60-62		Yellow sandy clay	.20	.90
62-64		Friable qtz sandstone -subround grains.		
64-66 66-68		Yellow sands with increasing clay content.	.15	.20



# DRILLING LOG

PERMIT E.L. 893 LEGUNE STATE N.A.	P.D.H. NBL 4013 Location L21 - 1200N Azimuth Depression  VERTICAL	Hole drilled by DAVIES DRILLING Hole started 4.9.75 Hole completed 5.9.75 Hole logged by W.G. Morris
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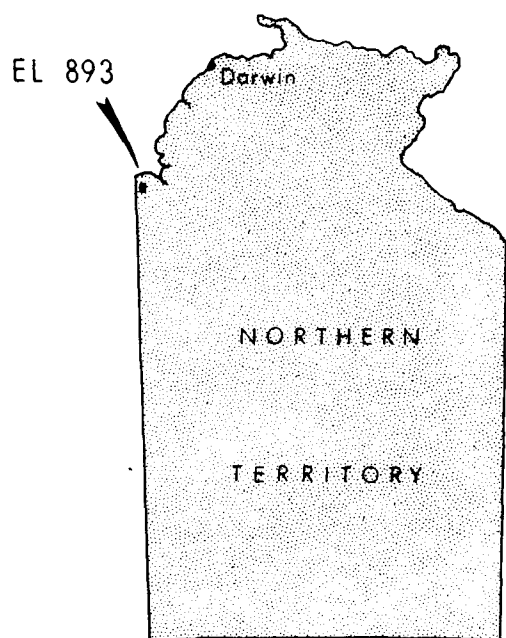
DEPTH (metres)	SAMPLE NUMBER	DESCRIPTION	ASSAYS	
			Pb (%)	Zn (%)
68-70		Yellow to yellow brown clays with minor ox. sandstone -partly FeO indurated.	.15	.45
70-72				
72-74				
74-76				
76-78				
78-80				
80-82				
82-84				
84-86				
86-88				
88-90				
90-92			.15	.40
92-94				
94-96		Limit of oxidation	.25	.25
96-98		Fresh pale grey quartzite with about 1-2% disseminated pyrite.		
98-100		White qtz sandstone - poorly sorted	.20	<.10
100-102		As above but with 1-2% disseminated pyrite also grey clay ( fresh shale )		
102-104		As above but some FeO induration	.20	<.10
104-105				
End of the hole 105 m				

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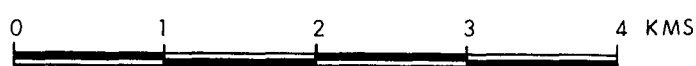
# EL 893 - Legune

## LOCATION DIAGRAM

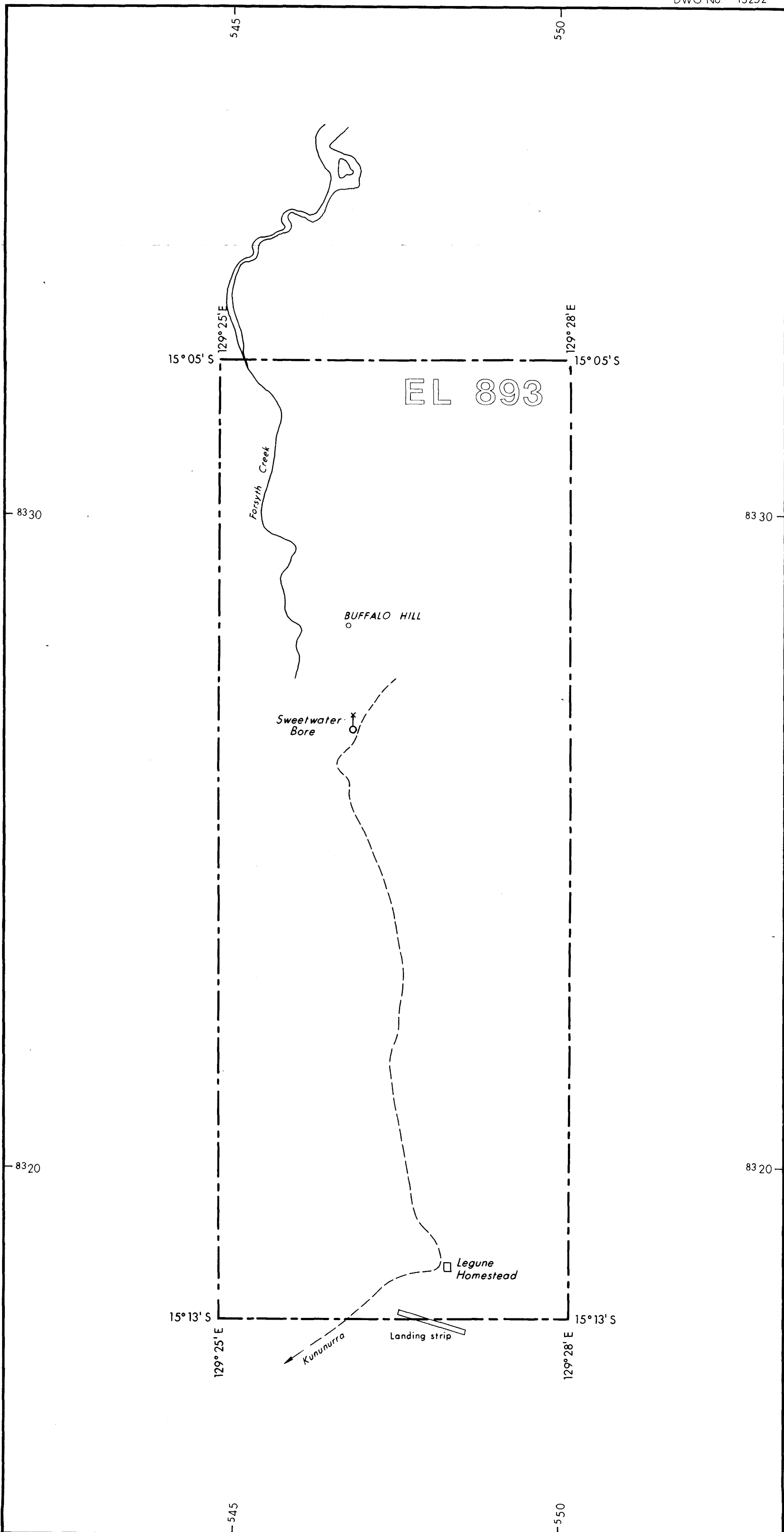
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SHEET 4767 - EDITION 1)



Scale 1: 50,000



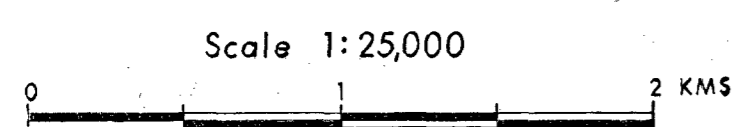
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EL 893 - Legune

BEDROCK GEOLOGICAL MAP

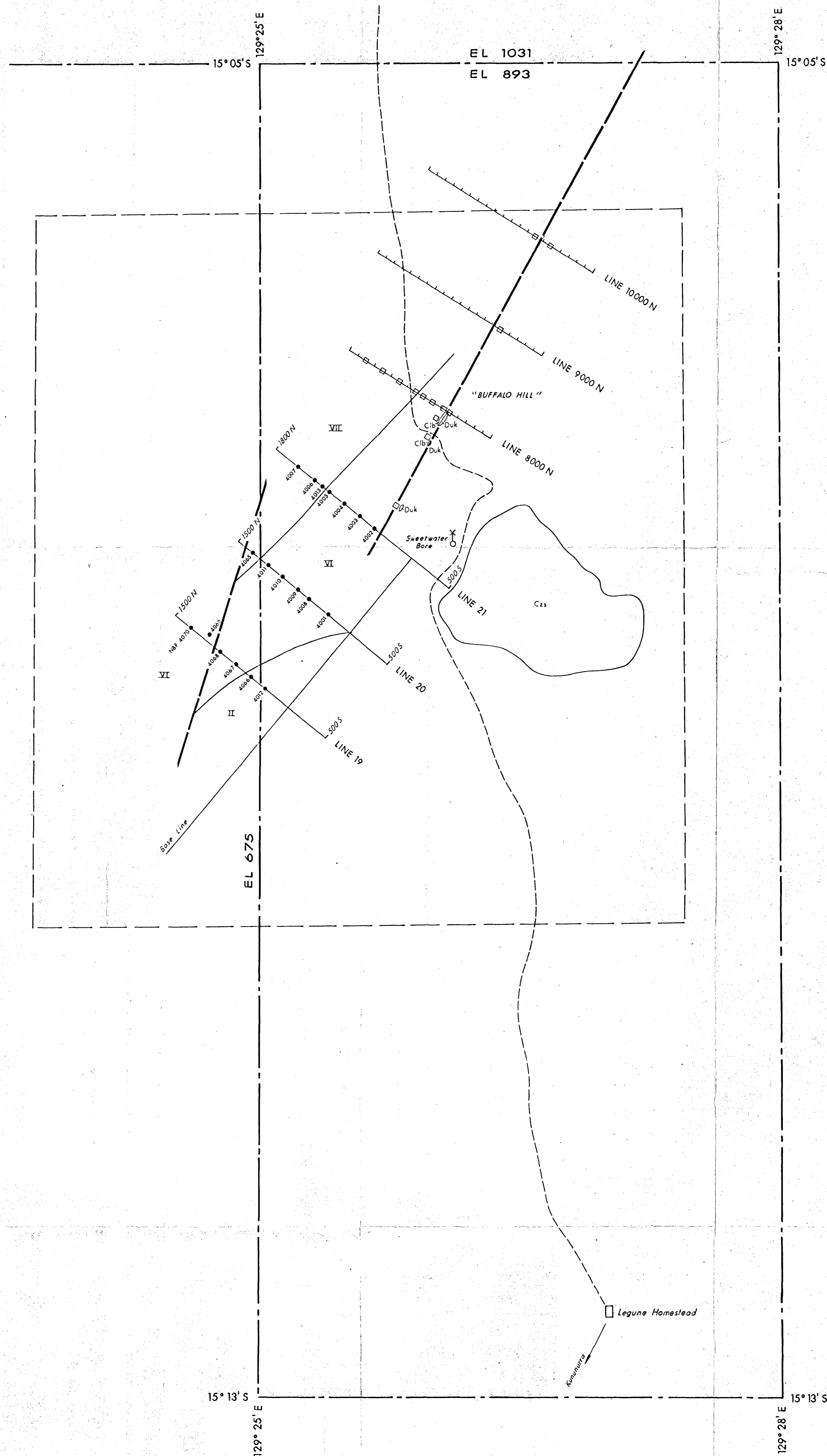


LEGEND

<i>Cainozoic</i>	UNDIFFERENTIATED	Czs	Sand
<i>L. Carboniferous</i>	POINT SPRINGS SANDSTONE	C1p	Ferruginous quartz sandstone
	BURT RANGE FORMATION	VII	Carbonaceous calcareous shale
	BURT RANGE FORMATION (C1b)	VI	Quartz sandstone Rare thin carbonaceous layers
<i>U. Devonian</i>	KELLY'S KNOB SANDSTONE (Duk)	V	Limestone dolomite, calcareous sandstone
	RAGGED RANGE CONGLOMERATE	IV	Pebbly quartz sandstone
<i>Cambrian</i>	ANTRIM PLATEAU VOLCANICS	III	Ferruginous sandstones & conglomerate
<i>Precambrian</i>	UNDIFFERENTIATED	II	Intermediate to basic volcanic extrusives
		I	Pink & grey laminated mudstones & siltstones

(ROMAN NUMERALS USED FOR LOCAL INDEXING ONLY)

	OUTCROP	4001	ROTARY DRILL HOLE LOCATION & NUMBER (prefixed NBF unless shown)
	CONTACT KNOWN		ROTARY HOLE DRILLED PRIOR TO 1975
	CONTACT PROBABLE		
	CONTACT CONJECTURAL		
	FAULT		EL. BOUNDARY AS AT 31st OCTOBER 1975
			AREA COVERED BY FIGURES 3 & 4 OF THIS REPORT

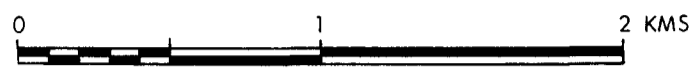


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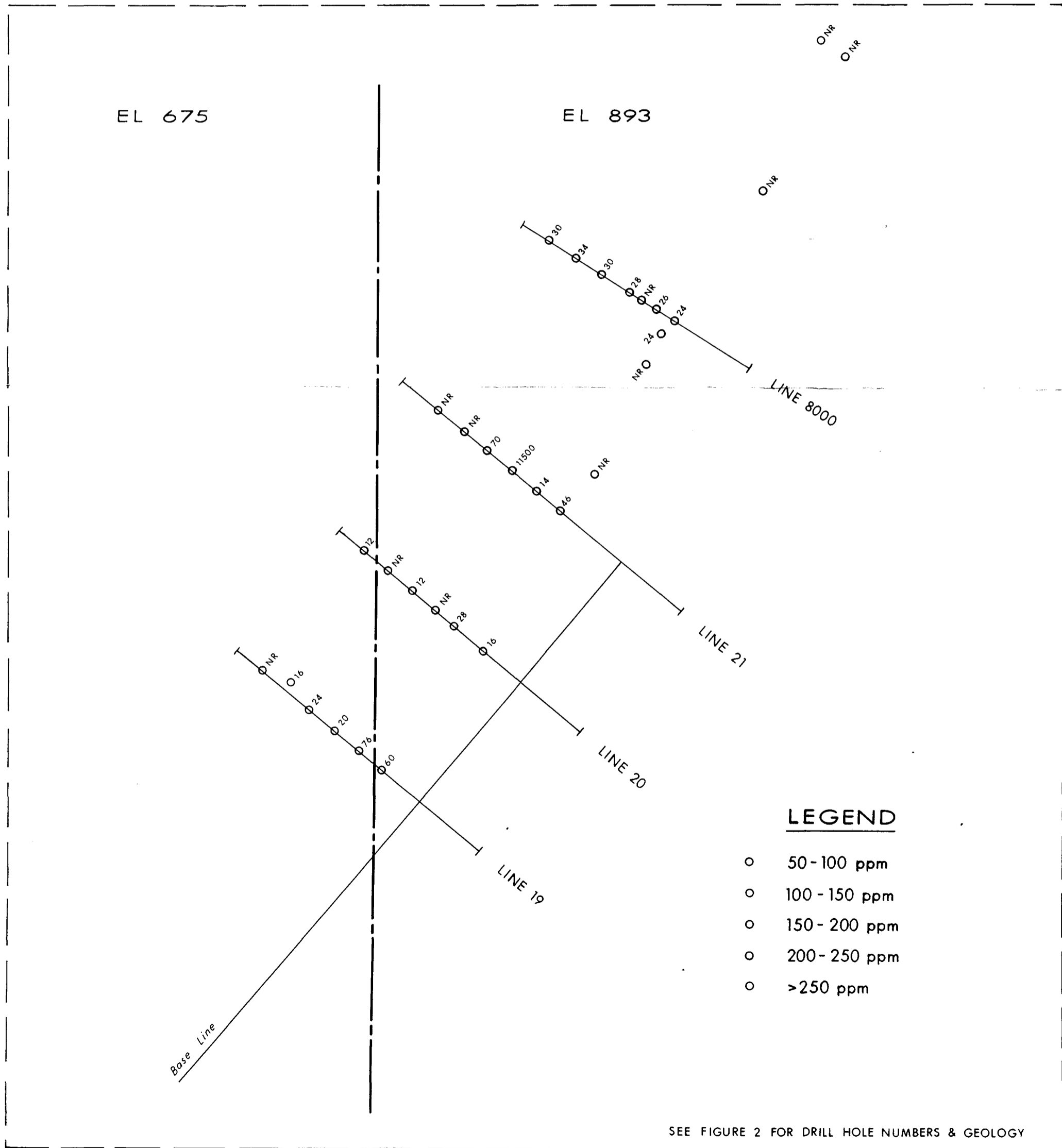
# EL 893 - Legune

## BEDROCK LEAD GEOCHEMISTRY

Scale 1:25,000



DWG No. 13254

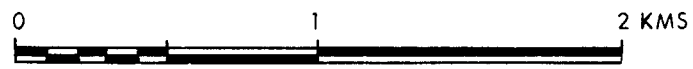


SEE FIGURE 2 FOR DRILL HOLE NUMBERS & GEOLOGY

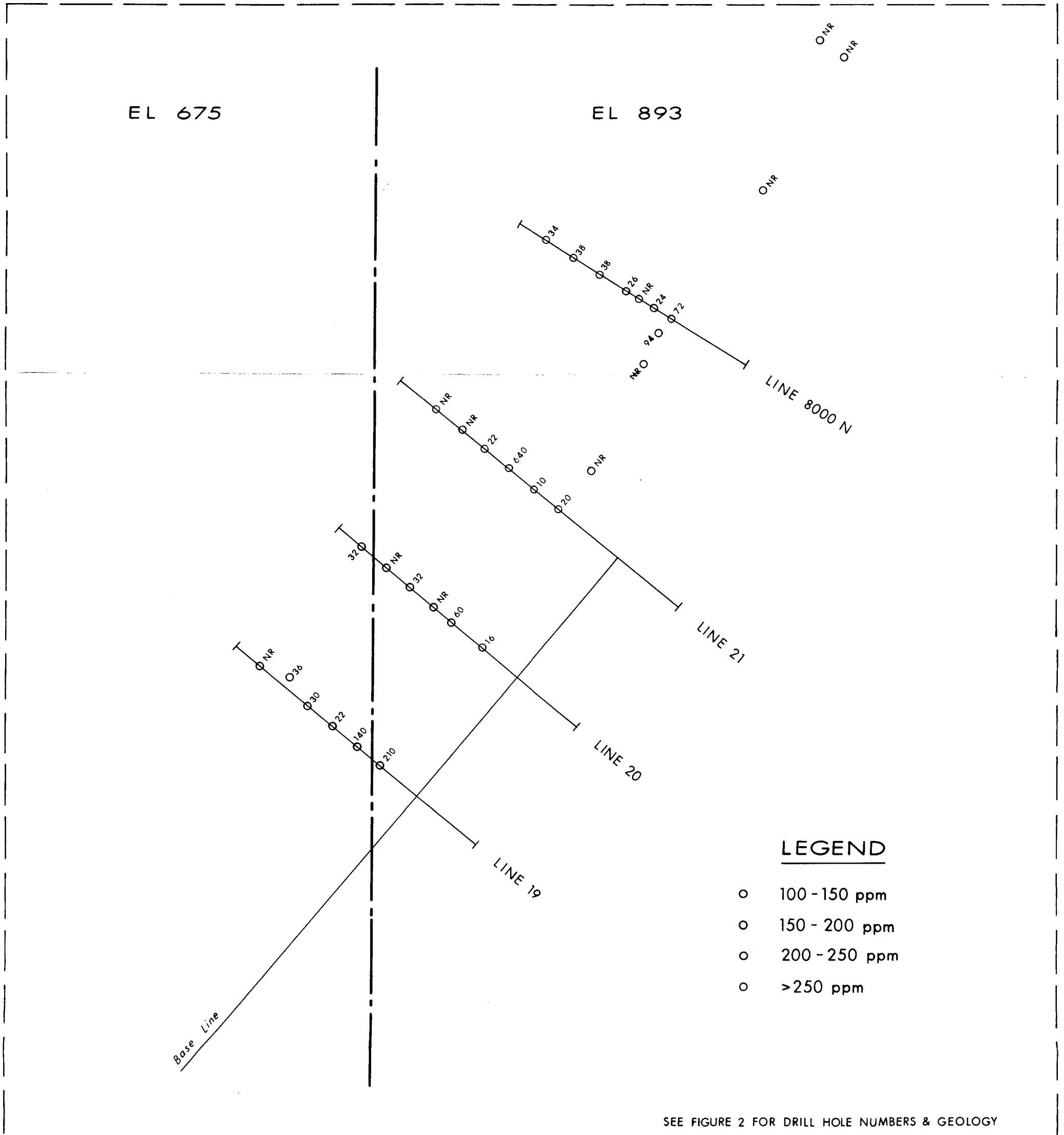
# EL 893 - Legune

## BEDROCK ZINC GEOCHEMISTRY

Scale 1:25,000



DWG No 13255



SEE FIGURE 2 FOR DRILL HOLE NUMBERS & GEOLOGY