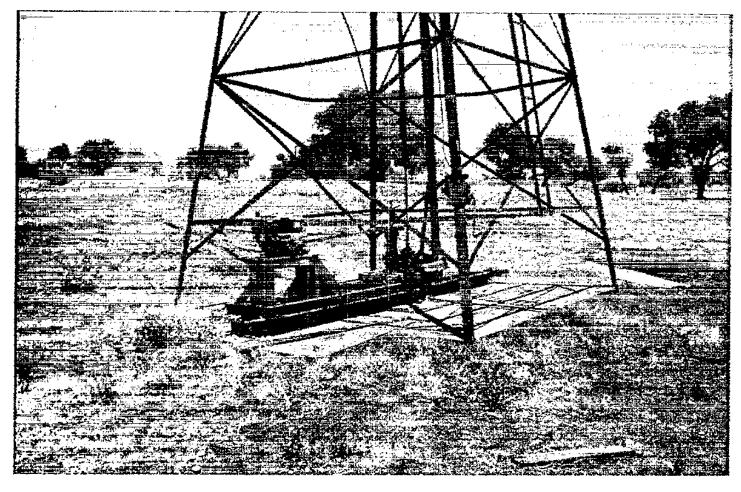
AMOONGUNA August 1997

BORE INFORMATION SHEET *** Amoonguna No 13(3)

REGISTERED BORE NUMBER: RN 4712

AMOONGUNA NUMBER 13(3): Unsuccessful Production Bore This bore is also known as Amoonguna 13 third attempt.



Rockyhill mumber I bore

This bore was drilled by the Water Resources Branch for the Welfare Branch of the Northern Territory Administration, Federal Department of Interior in February 1965

The bore was drilled using a cable tool rig by contract driller JP Cole (driller Rex Villiers). It was drilled to a total depth of 168 metres (550 feet) for a supply of 300 gph of good quality water. The standing water level was 56.69 metres (186 feet), total dissolved salts content of 850 mg/l..

This bore is also called Amoonguna no 13 third attempt. It was drilled 500 feet west of Amoonguna number 12.

LOCATION:

Locality:

NATIONAL LANDCARE PROGRAMME

Assessment by Landcare Engineer: Graham Ride Monday, 18 August 1997

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AMOONGUNA August 1997

BORE INFORMATION SHEET *** Amoonguna No 13(3)

Owner:
Location: xxxx metres south

xxxx metres south of the Community Office

Australian Grid Co-ordinates	Zone SG53	Easting: 391 xxx	Northing: 7 369 xxx
Located by GPS	14	Latitude:	Longitude:

DRILLING DETAILS:

Total Depth: 168 metres Drilling Commenced: 15/1/65 Drilling Completed: 18/2/65

Driller: Rex Villiers, Contract Driller for JP Cole

Drilling Technique: Cable Tool

Equipment Above Ground: Nil

Equipment Below ground: Nil

MAJOR WATER BEARING STRATA (Aquifers)

Depth (metres)	Supply (litres per	Standing Water Level	Quality
	second)	(metres)	4 o la jum set sperior timoporto presidente del proporto presidente del proporto presidente del proporto presidente del proporto del presidente del proporto del presidente del proporto del presidente del proporto del presidente
62.48 (205 feet)	300 gph (bailer)	56.69 (186 feet)	good

WATER ANALYSIS:

There is one known water analysis of a sample from this bore.

1. Water analysis data sheet sample from bore RN 4712: sampled 23/3/65 bore at 513 - 515 feet

Analysed By: Northern Territory Administration, Aniimal & Industries Branch,: Dean Newman

Total dissolved salts: 850 Date analysed: 4/4/65

Conductivity @ 25°C: pH 7

Sodium	104	Ch	loride		7(<u>)</u>
Potassium	11	Sal	phate -		184	4
Calcium	102	Nit	rate	a la la calendade de la calend		

NATIONAL LANDCARE PROGRAMME

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BORE INFORMATION SHEET * Amoonguna No 13(3)**

Magnesium	31 -	Bicarbonate 416
Total Hardness	382	Carbonate
Total Alkalinity	341	Fluoride
Iron	- 1474 - 17 - 17 - 17 - 17 - 17 - 17 - 17 - 17	Phosphate
Silica		Sodium Chloride

DISCUSSION ON CHEMICAL QUALITY OF THE GROUNDWATER:

The water is suitable for human consumption, agricultural and stock use. Except for the hardness it is good quality groundwater.

DRILLERS LOG:

From (metres)	To (metres)	Strata
O CONTRACTOR	2	Top soil
2	3	Gravelly brown clay
3	8	Brown clay
8	16	Boulders & quartz
16	26	Brown clay
26	62	Gravelly brown clay with some bands of brown clay
62	63	Gravel bed (1st water)
63	168	Brown clay & Gravelly clay

GEOLOGISTS LOG:

Detailed geologistslog on file

INTERPRETATION OF THE LOGS:

From (metres)	To Strata (metres)
0	29 Quaternary aged Sediments
29	168 Tertiary aged sediments

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RN 4712

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MANAGER AUGUST 1997

BORE INFORMATION SHEET *** Amoonguna No 13(3)

GENERAL INFORMATION:

ADJACENT BORES:

GEOLOGY:

GROUNDWATER AVAILABILITY:

This Bore:

As a result his was not a reliable bore. It is not known whether other aquifers exist deeper.

The General Area:

Bores yielding up to 4 litres per second can be constructed into the alluvial basin where good sand and or gravel aquifers are located. The difficulty is locating the sand beds and sand lenses which are very variable and often limited in extent.

The second major difficulty is constructing stable bores because the sand is often very fine and in narrow bands. The two problems is identifying the location of the beds then stabilising the bores so that they do not pump sand and ultimately fail.

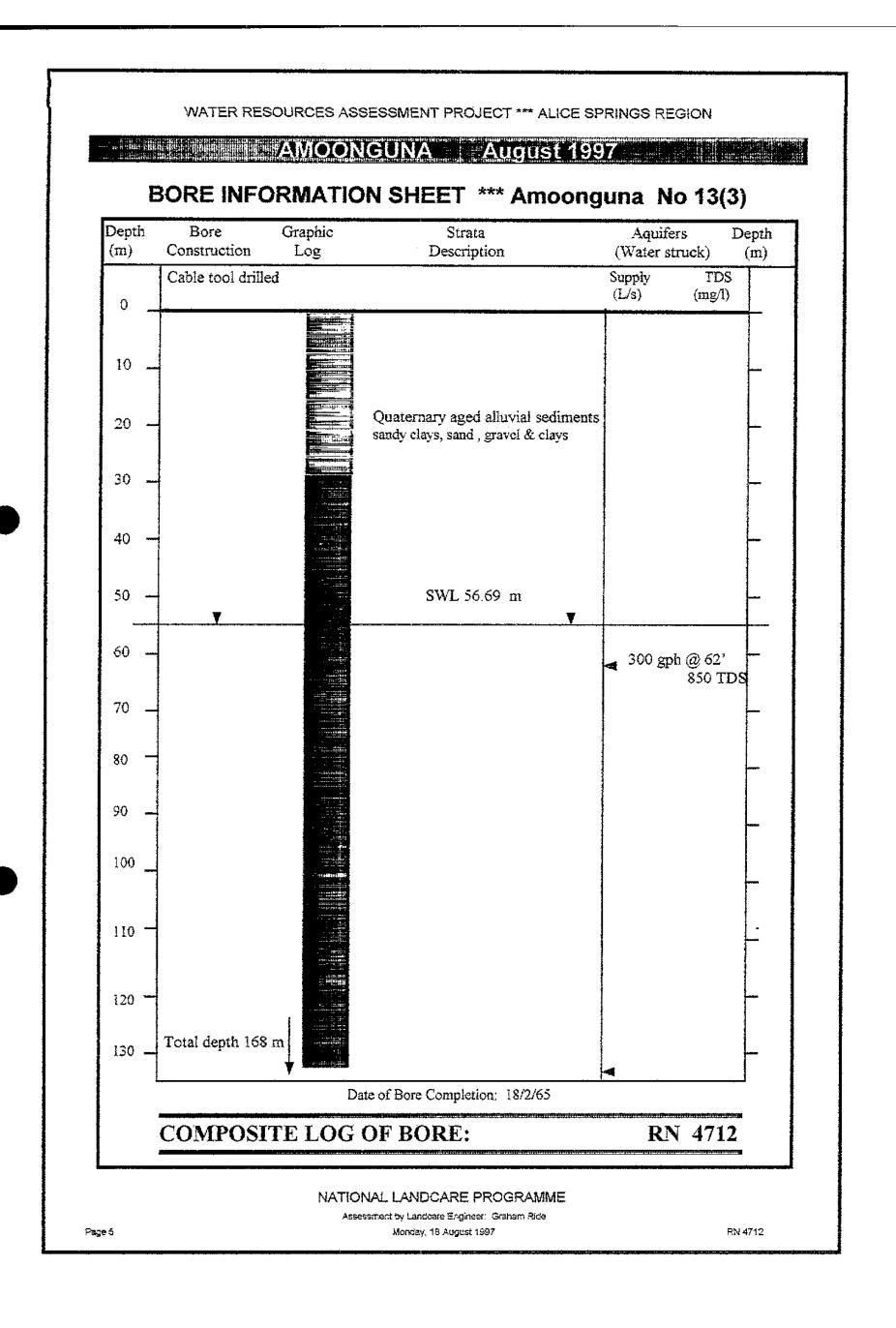
Some of the Amadeus Basin formations at depth are also likely to include aquifers but it would be quite expensive to determine where potable supplies are located and the sustainable yield of these aquifers.

NATIONAL LANDCARE PROGRAMME

Assessment by Landcare Engineer: Graham Ride Monday, 18 August 1997

RN 4712

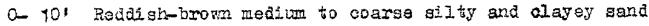
Page 4



Roculte in no	rts per million
nesuus m ya	rts per minton
HARDNESS (Calculated as CaCO3)	
Loval	
ALKALINITY IN EXCESS OF HARDNESS	
CHLORIDE	
SULPHATE	3.83
FLUORIDE	
CALCIUM	5.09
BICARBONATE	6.82
CARBONATE	
SODIUM	4.52
POTASSIUM	0.28
MAGNESIUM	2.55
NITRATE	
NITRITE	* * * * * * * * * * * * * * * * * * *
AMMONIA	· · · · · · · · · · · · · · · · · · ·
	* * * * * * * * * * * * * * * * * * *
HESTINE ON EVAPORATION	***
pH	·
	particular reference to suitability of the water it is stated to be required.
The above results	ere forverded for your information.

AMOONGUNA "13" NO. 3 ATTEMPT

Description of samples



- 10- 28: Red-brown fine to coarse sandy and silty clay
- 28- 33' Medium to very coarse silty sand
- 33- 41' Dark red-coarse silty cay
- 41- 50' Brown medium to very coarse silty polymict sand
- 50- 95' Brown medium to coarse sandy and silty clay
 - ?? UNCONFORMITY TOP OF TERTIARY
- 95-105' Cream medium to coarse sandy clay
- 105-113' Very coarse sub-angular gravel (clasts are mainly pink to grey quartzite)
- 113-150' Pinkish brown medium to coarse sandy clay
- 150-160' Brown, with some small patches of pale grey, medium grained sandy clay
- 160-175' Medium to very coarse sandy clay, pinkish brown
- 175-190' Pinkish brown medium grained sandy clay
- 190-205' Yellow brown medium grained very sandy clay
- 205-207: Medium to very coarse sand and gravel. Overall colour is grey, and has appearance of a Tertiary sand. Large proportion of transluscent frey quartz grains in sand fraction (aquifer)
- 207-225 Dark purplish-brown and grey clay
- 225-235' Dark brown & grey clay. Very little sand
- 235-250' Creamy grey medium to coarse grained very clayey sand
- 250-270' Rod-brown, and grey clay
- Red-brown clay, with a small amount of coarse sand 270-3301 grains within the clay
- 330-360' Creamy gray coarse very sandy clay
- 360-3908 Pale brown and grey medium grained very sandy clay
- 390-420' Pinkish brown slightly sandy clay
- 420-450' Dark brown, some pale grey streaks, medium to very coarse very sandy clay
- 450-4 60' Mottled vale grey and kakhi silty clay
- 480-500' Dark yellow-brown very silty cay
- 500-520' Yellow-brown fine to medium grained very sandy clay
- 520-550' Mottled pale grey and kakhi fine to medium grained slightly sandy clay

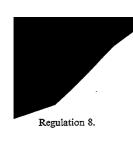
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D. WOOLLEY

Resident Geologist. 18.3.65

NAME And			3rd Att.	Job 200	, 1	of Amoonguna _{INE}	· · · •	16/761	
LOCALITY		rom k	27	•		REC	3. No	4712	
DEPTH	5501	167.	68m		1		No	Job 200	
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ANALYSES			*************************************	150		Brown clay			
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T.D.S					175-	_	-		
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CARBONATE					235	Room clay		i F	
SULPHATE.				253	250	Gravelly clay		1	
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NITRATE					270				
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EALCIUM		,							
MAGNESIUM					330		· ··		
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;	-								
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REMARKS				420	j j l				

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		BORF	DA ⁻	TA SHE	ET	- A	:
,					moonguna _{INDEX} No.	45/05-	•
	moonguna No.1		Job 200	No.1	REG. No	16/761 4712	
LOCALITY		Land	<u> </u>		FILE No	Job 200	
DEPTH	5501	167.7~		PERFORATIONS		<u></u> t	
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LOCATION	/ /	E	N SURFACE LEVEL		LEVEL	DATE 10 (CT	
CONTRACTOR	J. P. Cole	DRILLER	R. Vi	illiers	DATE STARTED 15/1/65	DATE FINISHED 18/2/65	
	WATER				STRATA SECTION		1
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AQUIFER THICKNESS STANDING			- -	Bro	own clay		
WATER LEVEL		-	-	4 Cla			
PUMP G.P.H	1 1	_			ilders and quartz	;	
DRAWDOWN LEVEL			1	Bro	own clay		
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STORAGE COEFF			+ 1	<u> </u>	avelly clay		
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T.D.S		_	- =	; 	et brown clay		
CONDUCTIVITY		-		- Gre	evelly brown clay	•	
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dATE			- 2 -	- 270			•
NITRATE			1	Bro	own clay		
FLUORIDE			 	-	own cley		i.
sodium				- - - - - - -	•		
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]	gr	avelly clays		
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THE NORTHERN TERRITORY OF AUSTRALIA

N.T.A. 181

Control of Waters Ordinance

FINAL STATEMENT OF BORE RN4712

140	rom	То	Description of Strata	Name of Bore	:-			
Second Clay	•5		Top soal	Amoongan	a No 13. 3r	d A.T.T. Jok	200	
28 33 Quartz stone & billy 33 41 Clay 41 50 Boulders & quartz 50 80 Brown clay 80 95 Gravy clay 95 105 Gravy clay 105 113 Quartite boulders 113 115 Sandy clay 115 140 Gravy clay 160 175 Gravy bown clay 175 190 Soft brown clay 190 205 Gravy bown clay 190 205 Gravy bown clay 220 225 Brown clay 227 225 Brown clay 227 225 Brown clay 227 235 " "(refer to back) 227 235 " "(refer to back) 23								
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