

PARTICULARS OF COMPLETED BORE/WELL

Registration No. 21769

Index No 80/2116

Advice No

20. Describe rock type, colour etc. any changes must be recorded.

From - To
 0 - 0.5m TOPSOIL
 0.5m - 9m RED & WHITE CLAY
 9 - 24.1m RED, WHITE & YELLOW CLAY
 24.1 - 30.2m RED, WHITE & YELLOW CLAY & QUARTZ
 30.2 - 48.5m YELLOW, WHITE & RED CLAY QUARTZ & SANDSTONE
 48.5 - 56.7m WHITE CLAY & QUARTZ
 56.7 - 73.8m NO CIRCULATION - POSSIBLY COARSE SAND
 73.8 - 85.4m DOLOMITE

1. Name of Bore

M^c MINNS 24/82

2. Name of Property

KOOBINYAH STN.

3. Owner of Property

4. Type of Lease

PASTORAL

5. Lease/Block No.

6. Bore or Well

BORE

7. Name of Contractor

WATER DIV.

8. Name of Driller

P. ESPIE

9. Depth Recorded

10. Depth Drilled.

85.4m

11. Date Commenced

3-12-82

12. Date Completed.

7-12-82

13. Proposed use of Bore

☐ Domestic☐ Pastoral☐ Stock Route☐ Irrigation☐ Town Supply☐ Observation☒ Investigative

14. Bore has been drilled by

☒ Rotary☐ Cable Tool☐ Jetting☐ Other

15. Bore Drilled Using

☒ Air ☐ Mud☒ Foam☒ Water☒ Degradable Polymer

Size of drilling Bit... 9" from 0 to 73.4m.

... 7 3/4" from 73.4 to 73.8m.
... 5 1/4" from 73.8 to 85.4m.

16. Casing Installed

☐ Steel☐ ABS☒ PVC☐ Fibreglass☐ Other.....

... 2" Dia from 0 to 68.9m.

..... Dia from to

Threaded

Welded

17. Screens

☒ None installed☐ Stainless Steel☐ Bronze☐ PVC

Dia..... Slot Size..... From.... to.....

Dia..... Slot Size..... From.... to.....

Screens are Screwed connected by Pac

21. Sample of strata and water

have been will be left at

Darwin Katherine

Alice Springs Other.....

18. Perforation in casing

☐ Percussion Slotted☐ Oxycut☒ Drilled

Other.....

Slot/hole size... 1/4" ... From 62 to 68m.

Slot/hole size..... From..... to.....

19. Is any strata cemented off

☐ Yes ☒ No

If so, give depth to

22. WATER

1st Supply

2nd Supply

3rd Supply

4th Supply

5th Supply

Remarks

Struck at

56.7 - 73.8m

Standing Water Level

16m

Discharge

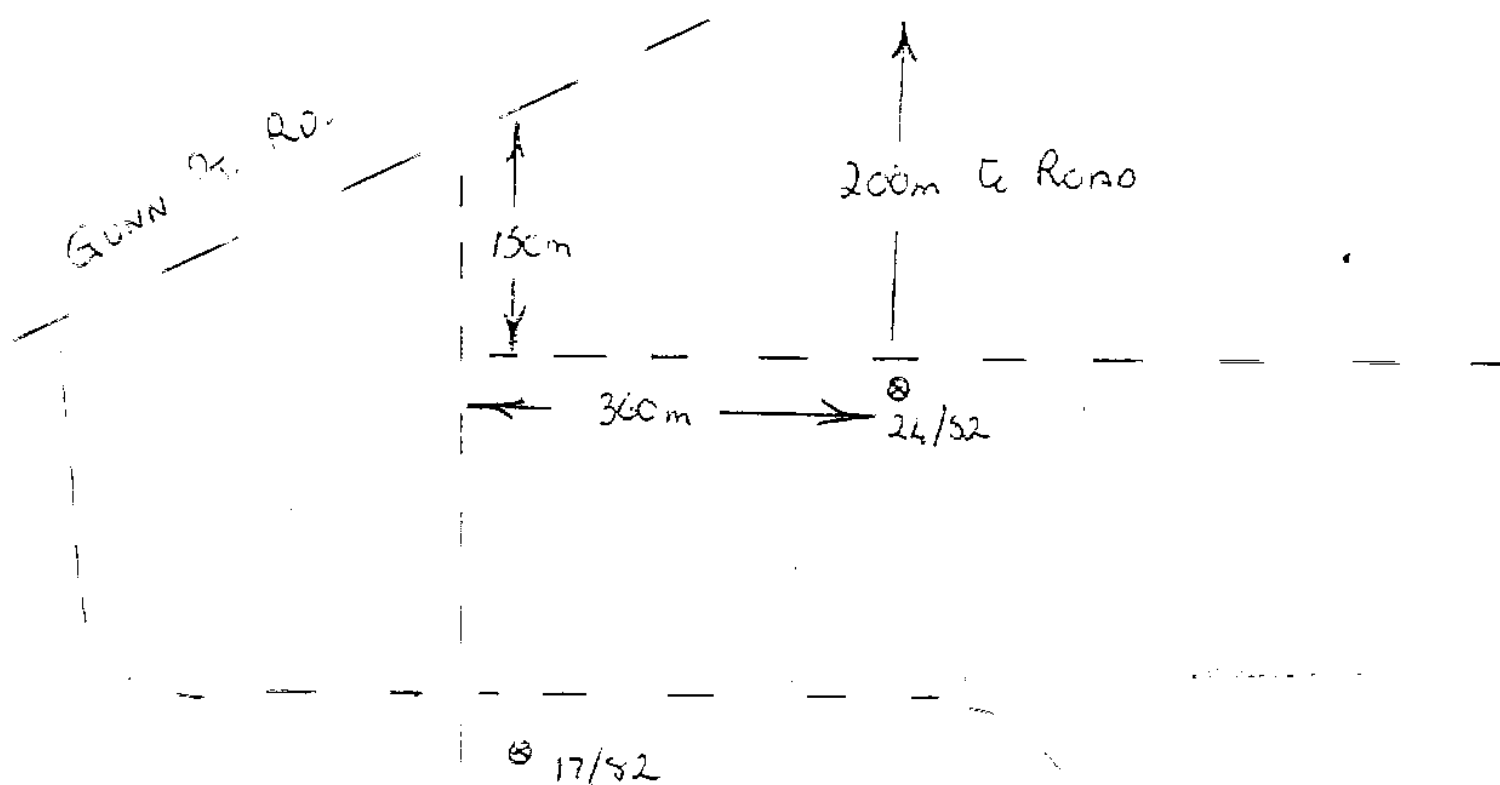
3.2/sec

Duration of Test

5mins.



RN021769



Please show boundaries of sections etc, and location of bore(s) within section. If more than one bore clearly identify each. Marked distance from boundaries if possible.

24. This bore has been constructed under by supervision and this report is true to the best of my knowledge.

Signature.....*R. Setchell*.....Driller Date.....*9-12-82*.....

PLEASE NOTE THE FOLLOWING:-

1. UNITS If possible please use metric units (metres, Millimetres, litres per second). Old units are acceptable (feet, inches, gallons per hour) but make sure you make it clear which you are using.
2. WATER SAMPLES A sample of not less than one litre of each water supply encountered during the drilling is required. Suitable plastic bottles can be obtained from the Water Resources Branch. Please rinse out all bottle properly before sampling. Completely fill the bottle leaving no entrapped air. Please label the bottle with the bore name and depth of supply.
3. STRATA SAMPLES A sample of not less than 0.2 kilograms of each 3m of stratum encountered during drilling is required. Please label all samples with the hole name and interval drilled. Plastic bags and tags can be obtained from Water Division.
4. LOCATION Please describe the location as accurately as possible giving distances from one or more features (such as other bores, dams, etc.) within a close distance. Preferably give a sketch of the area.

26. OFFICE USE ONLY: *KUK PINYAN SHEET S173 EOT 1 SERIES R621 1:100,000*
 Map No:..... Plotted on Map Date:.....*13/12/82*.....
 AMG Co-ordinates:.....*294 230*..... Traced to Master Map Date:.....*13/12/82*.....
 Datum (A.H.D.):..... Checked by:.....*[Signature]* Date:.....
 Geological Basin:..... Signature (Bore Inspector) Date:.....

WATER ANALYSIS

Department of Transport & Works
Water Division, Darwin N.T.



Laboratory Register No.

82/2168

Date received in Laboratory

13/2/82

WR 4/1A

Bottle No.
DU14Time of sampling
0920Date of sampling
7/12/82

LOCATION AND DETAILS

McMINNS 24/82 KOOLPINYAH RN 21769 DEPTH 85.4m DISCH 3LPS WRD 8876

RSP1010

Proposed water use:- Domestic, Stock, Irrigation, other (specify)

ANALYSIS — PHYSICAL

<input type="checkbox"/> pH	7.5	<input type="checkbox"/> Colour (Hazen units)	
<input type="checkbox"/> Specific conductance (microsiemens/cm at 25° C)	370	<input type="checkbox"/> Turbidity (NTU's)	
<input type="checkbox"/> Total dissolved solids (mg/l - by evaporation at 180° C)	210	<input type="checkbox"/> Suspended solids (mg/l)	

ANALYSIS — CHEMICAL (mg/l)

<input type="checkbox"/> Sodium, Na	2	<input type="checkbox"/> Chloride, Cl	6
<input type="checkbox"/> Potassium, K	<1	<input type="checkbox"/> Sulphate, SO ⁴	5
<input type="checkbox"/> Calcium, Ca	39	<input type="checkbox"/> Nitrate, NO ³	<1
<input type="checkbox"/> Magnesium, Mg	30	<input type="checkbox"/> Bicarbonate, HCO ³	256
<input type="checkbox"/> Total Hardness (as CaCO ³)	221	<input type="checkbox"/> Carbonate, CO ³	
<input type="checkbox"/> Total Alkalinity (as CaCO ³)	210	<input type="checkbox"/> Fluoride, F	0.1
<input checked="" type="checkbox"/> Iron, (total) Fe	6.6	<input type="checkbox"/> Orthophosphate, PO ⁴	
<input type="checkbox"/> Silica, SiO ²	10	<input type="checkbox"/> NaCl (calc. from chloride)	8

ANALYSIS — ADDITIONAL (mg/l)

<input type="checkbox"/> Copper, Cu	<input type="checkbox"/> Lead, Pb	<input type="checkbox"/> Arsenic, As
<input type="checkbox"/> Manganese, Mn	<input type="checkbox"/> Zinc, Zn	<input type="checkbox"/> Cadmium, Cd
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

The sample as analysed is considered suitable for:-

Drinking water —

Yes/No

Stock watering —

Yes/No

Irrigation —

Yes/No

Others (specify)

Yes/No



This Laboratory is registered by the National
Association of Testing Authorities, Australia. The test(s)
reported herein have been performed in accordance with
its terms of registration. This document shall not be
reproduced except in full.

With suitable treatment the Iron
concentration may be lowered to an
acceptable level.

Analysed By: G. JOHNSTON

Date 2 / 2 / 82

Boxes marked thus ☒ indicate levels considered undesirable for drinking water by the
Northern Territory Department of Health.

WR 9/1

DRILLERS LOG

DATE Fri 3-12-82

BORE No. McMinns 24/82 RN 21769

Driller: P. E. ~~Spie~~

Time	Depth	Feet drilled	Mins lapsed	Drillers remark, casing details	BIT DATA				STRING DATA			MUD DATA	
					No.	Size	Type	Worn cond'n	Item	O.D.	Length	Prog. tally	
0730				Check access to site. Move to site		9"	Drag bit		Bit	9"	0.90	0.90	
				Clear site & set up rig & equipment					D.P.	4 1/2"	6.10	7.00	
0910				Commence drilling with 9" drag bit									
0930	5.9	5.9	20	Topsoil to 0.5m. Red & white clay to 5.9m									
				Dig mud pit & drains									
1150				Add 5 1/2" D.C. hole cased in to 3m					D.C.	5 1/2"	5.90	12.90	
1204				Mix sand & clean out hole									1 Biogel
1204				Continue									
1231	11.8	5.9	17	Red & white clay to 9m Redwhite & yellow to 11.8m									
1236				Add rod & cont					D.R.	5 1/2"	6.10	19.00	
1250	18.0	6.2	14	Red, white & yellow clay									
1253				Add rod & cont					D.P.	4 1/2"	6.10	25.20	
1303	24.1	6.1	10	Red, white & yellow clay									
1307				Add rod & cont.					D.P.	4 1/2"	6.10	31.30	
1333	30.2	6.1	26	White & yellow clay with quartz									
1338				Add rod & cont					D.P.	4 1/2"	6.10	37.40	
1358	36.3	6.1	20	Yellow, white & red clay some quartz & s/s stone									
1402				Add rod & cont					D.P.	4 1/2"	6.10	43.50	
1413	42.4	6.1	11	As above									
1417				Add rod & cont.					D.P.	4 1/2"	6.10	49.60	
1428	48.5	6.1	11	As above - lost circ at 48.5m - waiting on water									
1523				Cont - got circ back									1 Biogel
1530				Add rod & cont					D.P.	4 1/2"	6.10	55.70	
1538	54.6	6.1	8	White clay & quartz									
1541				Add rod & cont.					D.P.	4 1/2"	6.10	61.80	

DATE Fri 3-12-82

BORE No. 11 Muns 24/82 RN 21769

Driller: P. K. Rose[illegible]

WR 9/1

DRILLERS LOG

DATE SAT 4-12-82

BORE No. M'Minne 24/82 RN 21769

Driller: P. Espie

Time	Depth	Feet drilled	Mins lapsed	Drillers remark, casing details	BIT DATA				STRING DATA				MUD DATA		
					No.	Size	Type	Worn cond'n	Item	O.D.	Length	Prog. tally			
0730	60.7			Service rig - depth of hole 55.9m		9"	Drag bit		Bit	9"	0.90	0.90			
0800				Trip in					20.C	5 1/2"	12.10	13.00			
0822				Clean out hole					8 D.P.	4 1/2"	48.80	61.80			
0827				Add rod & cont.					D.P.	4 1/2"	6.10	67.90			
0831	66.8	6.1	4	No circulation											
0834				Add rod & cont.					D.P.	4 1/2"	6.10	74.00			
0836	72.9	6.1	2	No circulation											
0838				Add rod & cont.					D.P.	4 1/2"	6.10	80.10			
0840				Harder at 73.4m - no circ Trip out											
0910				Trip in with 7 3/8" R.R.		7 3/8"	R.R.		Bit	7 3/8"	0.60	79.80			
0935				Mix more mud & clean out hole										1 Biogel	
0952				Continue drilling											
1009	73.8	0.9	19	Out of mud - hard - no circ - Trip out											
1050				Depth of hole = 59.6m	1	6.28									
1110				Run casing	2	6.24	-	12.52							
					3	6.43	-	18.95							
					4	5.82	-	24.77							
1304				Casing 0.7m off bottom	5	6.42	-	31.19							
1315				Cut casing	6	6.40	-	37.59							
				Dig drain	7	6.45	-	44.04							
				Wash down rig	8	6.45	-	50.49							
				Pack up	9	6.45	-	56.94							
1530				Clean up & knock off	10	6.35	-	63.29							
					11	6.43	-	69.72	- cut off end - 0.18				= 69.54		
					12	5.44	-	74.98							

DATE _____

Mon 6-12-82

BORE No.

MC Minno 24/82

RN 21769

Driller:

P. Espe

F. D. ATKINSON, Government Printer, Darwin.

DATE Tues 7-12-82

BORE No. M^c Minns 24/82 RN 21769

Driller: P. Espie

F. D. ATKINSON, Government Printer, Darwin.