

Regulation 8

THE NORTHERN TERRITORY OF AUSTRALIA

Control of Waters Act

WR4/3

FINAL STATEMENT OF BORE

RN 13756
IN 33/142

From 0 To 3 - Red Sand/Silt/Gravel 3 - 6 Quartz Pebble & Sand. 6 - 15 Yellow/White Sand & Clay 15 - 24 Clayey Fine SS. 24 - 39 White Clay - Weathered Basement. 39 - 45 Red - Weathered Schist/Gneiss 45 - 63 Yellow/gray Clay " " 63 - 90 Grey Weathered Schist 90 - 119.4 Schist/gneiss becoming harder with depth to Fresh Biotite - Feldspar Schist/gneiss.	Name of Bore — RN 13756																											
	Name of Property — MCLAREN CREEK																											
Location of Bore (or supply sketch on the back hereof) — 0.00 km on Railway line Nth of Devil's Marbles (a) 8 SE of (b) 0.00 km C/L 150 m W of E NW (Dixon Creek) SW (a) Circle appropriate direction. (b) Use known point such as existing bore, homestead, outstation, etc.	Description of Property — PASTORAL LEASE																											
	Name of Owner — AUSTRALIAN NATIONAL																											
Additional information of interest about bore. Grid Reference 421 500 435 950 M Number SF 53-2 Samples of Strata and Water Supplies have been* will be* left at the following place — Alice Springs D.T.O. W. Signature *Delete non applicable	Name of Contractor — F. J. LEONHARDT																											
	Name of Driller — G. P. SCOTT																											
For Office use only — NO TRACE 30-4-96 R.D.	Date of Commencement — 18/8/83																											
	Date of Completion — 18/8/83																											
22403.812 A. B. CAUDELL, Government Printer of the Northern Territory	Total Depth — 119.4 m																											
	Particulars of Casing — N.L.																											
22403.812 A. B. CAUDELL, Government Printer of the Northern Territory	Particulars of Perforations or Screens — N.L.																											
	<table border="1"><thead><tr><th>Water</th><th>1st Supply only</th><th>2nd Supply only</th><th>3rd Supply only</th></tr></thead><tbody><tr><td>Struck at</td><td>93</td><td></td><td></td></tr><tr><td>Standing Water Level</td><td>—</td><td></td><td></td></tr><tr><td>Pumping Supply Litres/sec</td><td>0.3</td><td></td><td></td></tr><tr><td>Duration of Pump Test</td><td>1 hr AIRLIFT</td><td></td><td></td></tr><tr><td>Water Level During Test</td><td>—</td><td></td><td></td></tr><tr><td>Quality: Good, Fair or Bad</td><td>Sample No YS71</td><td></td><td></td></tr></tbody></table>	Water	1st Supply only	2nd Supply only	3rd Supply only	Struck at	93			Standing Water Level	—			Pumping Supply Litres/sec	0.3			Duration of Pump Test	1 hr AIRLIFT			Water Level During Test	—			Quality: Good, Fair or Bad	Sample No YS71	
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WATER ANALYSIS

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

Laboratory Register No.

83/84/0580

Date received in Laboratory

6/9/83

WR 4/1A

Bottle No.
YS71

Time of sampling

Date of sampling

18/8/83

LOCATION AND DETAILS

ALICE SPRINGS DARWIN RAILWAY DIXON CREEK RN 13756 DEPTH 93m DISCH 0.3LPS MAP SF53-2

GRL99438 RWT047

RSP123

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

ANALYSIS — PHYSICAL

<input type="checkbox"/> pH	7.3	<input type="checkbox"/> Colour (Hazen units)
<input type="checkbox"/> Specific conductance (microsiemens/cm at 25° C)	5560	<input type="checkbox"/> Turbidity (NTU's)
<input checked="" type="checkbox"/> Total dissolved solids (mg/L - by evaporation at 180° C)	3650	<input type="checkbox"/> Suspended solids (mg/L)

ANALYSIS — CHEMICAL (mg/L)

<input type="checkbox"/> Sodium, Na	625	<input checked="" type="checkbox"/> Chloride, Cl	1470
<input type="checkbox"/> Potassium, K	58	<input checked="" type="checkbox"/> Sulphate, SO ₄	606
<input checked="" type="checkbox"/> Calcium, Ca	238	<input checked="" type="checkbox"/> Nitrate, NO ₃	75
<input checked="" type="checkbox"/> Magnesium, Mg	234	<input type="checkbox"/> Bicarbonate, HCO ₃	182
<input checked="" type="checkbox"/> Total Hardness (as CaCO ₃)	1554	<input type="checkbox"/> Carbonate, CO ₃	
<input type="checkbox"/> Total Alkalinity (as CaCO ₃)	149	<input type="checkbox"/> Fluoride, F	1.1
<input type="checkbox"/> Iron, (total) Fe	1.0	<input type="checkbox"/> Orthophosphate, PO ₄	
<input type="checkbox"/> Silica, SiO ₂	17	<input checked="" type="checkbox"/> NaCl (calc. from chloride)	2426

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 ☐ NoThis 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.

Analysed By: G. JOHNSTON

Date 16 12, 83

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

BORE SUMMARY

BORE: RN13756

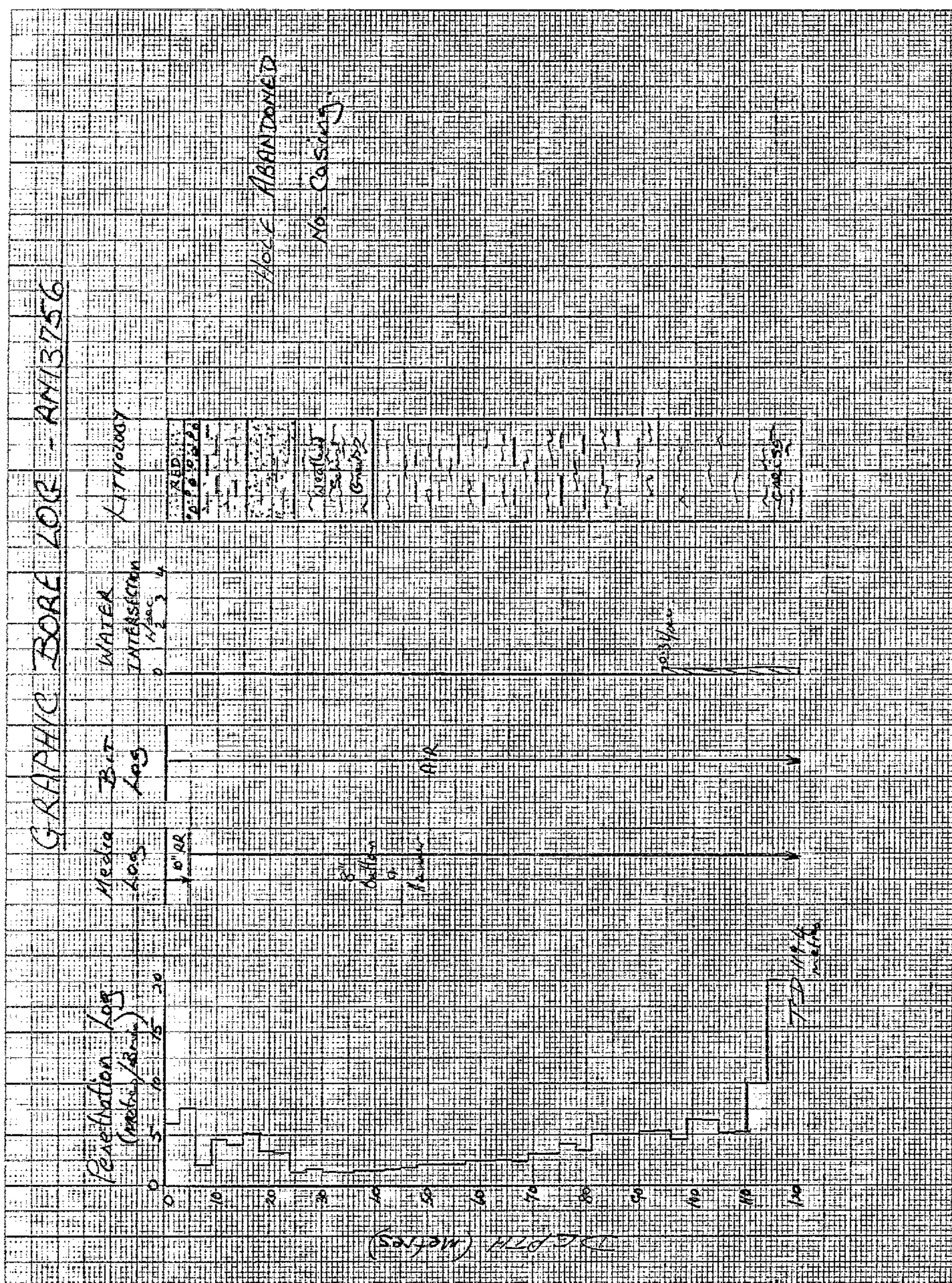
Location: Dixon Creek - 000 km Nth of Devils Marbles
150m West of E.

DRILLING: The hole was drilled to a depth of 4.5m into a firm calcrete / Sand layer & 8" casing was run as a collar. Drilling continued at 8" dia to the final depth of 119.4m. The sequence was basically a highly weathered metamorphic sequence, in situ & contained no water other than seepage. 0.36/sec approx were lifted from the hole at the completion of drilling. Drilling was halted when fresh gneiss / schist was intersected.

The hole was back filled & abandoned.

Total Not including Management nor Materials.
Cost: \$4931-20

Water Sample: YS 71 was submitted to the NT DTD
W. in Alice Springs.



WR 9/1

DRILLERS LOG

DATE 18th August 1983

BORE No. RN13756 cont.

Driller: G.P. Scott

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			
	72	3	3.0	Grey Weathered Schist	B2	8"	Butt	Med.	R12	4 1/2	6.1	76.7	A	R	
	75	3	3.0						-	-	-				
	78	3	4.0						R13	"	"				
	81	3	3.3						-	-	-	82.8			
	84	3	5.0						R14	"	"				
	87	3	5.0						-	-	-	88.9			
	90	3	5.0	≈ 0.34/sec.					R15	"	"				
	93	3	5.2						-	-	-	95.0			
	96	3	5.4						R16	"	"				
	99	3	4.5	Schist / Breccia becoming harder & less weathered					-	-	-	101.1			
	102	3	6.4						R17	"	"				
	105	3	6.3						-	-	-	107.2			
	108	3	5.2						R18	"	"				
	111	3	5.3	Fresh Schist - Biotite / Feldspar					-	-	-	113.3			
	114	3	10.0						R19	"	"				
	117	3	20.0						-	-	-	119.4			
				Tested for 1 hr. ≈ 0.32/sec.					T.D.						
				Pulled 8" casing & back filled hole.											
				Water Sample YS71											

WR 9/1

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DATE 18th August 1983

BORE No. RN13756

Driller: G. P. Scott.

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					No.	Size	Type	Worn cond'n	Item	O.D.	Length	Prog. tally	
				Moved to site 000 km Nth of Devils Mar-Blen - Dixon Creek.									
	0-3	3	6.0	Red Sand/Silt/Soil	B1	10"	RR	Med.					AIR.
	3-1.5	1.5	6.2	Quartz/Rubble & Sand.									
				Ran 4.85m 8" Casing.					R1	+ Stab.			
	4.5-6	1.5	1.5	Yellow White Sand/Clay	B2	8"	BoH	Med				9.6	AIR.
	9	3	2.2						R2	4 1/2	6.1	-	
	12	3	4.5						R-	4	4	15.7	
	15	3	4.0						R3	1 1/2	1.1		
	18	3	5.1	Clayey Fine Sandstone					R-	4	4	21.8	
	21	3	3.4									21.8	
	24	3	3.3						R4	"	"	-	
	27	3	1.3						-	-	-	27.9	
	30	3	1.6	White Clay/Weathered Basalt					R5	"	"	-	
	33	3	1.3						-	-	-	34.0	
	36	3	1.2						R6	"	"	-	
	39	3	1.3						-	-	-	40.1	
	42	3	1.4	Red Weathered Siltst/Gneiss					R7	"	"	-	
	45	3	1.5						-	-	-	46.2	
	48	3	1.6						R8	"	"	-	
	51	3	2.0						-	-	-	52.3	
	54	3	2.1	Yellow/Gray Clay " "					R9	"	"	-	
	57	3	2.0						-	-	-	58.4	
	60	3	2.4						R10	"	"	-	
	63	3	2.3						-	-	-	64.5	
	66	3	2.4						R11	"	"	-	
	69	3	2.3						-	-	-	70.6	

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Analysed By: G. JOHNSTON

Date 16/12/83

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Northern Territory Department of Health.



0081.847

G. L. DUFFIELD, Government Printer of the Northern Territory

RN013756