

Rockyhill number 1 hore

This bore was drilled by the Water Resources Branch for the Welfare Branch, of the Northern Territory Administration, Federal Department of the Interior in April 1963.

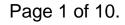
The Bore site was selected by the Bureau of Mineral Resources resident geologist.

It was one of a series of bores constructed in the general area to provide a water supply for the Amoonguna settlement.

The bore was drilled to a total depth of 60.96 metres (200 feet) for a small supply of water. The standing water level was 39.93 metres (131 feet).

The bore was abandoned and another bore drilled nearby.

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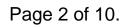
moonguna Communit Easting: 391 xxx Latitude: ed: 26/2/xx Drilling ( ater Resources Branch	Northing: 7 369 c Longitude:
Latitude: ed: 26/2/xx Drilling	Longitude:
Latitude: ed: 26/2/xx Drilling	Longitude:
-	
	u armer
ontrol of Waters Act.	
,	Standing Water I (metres)

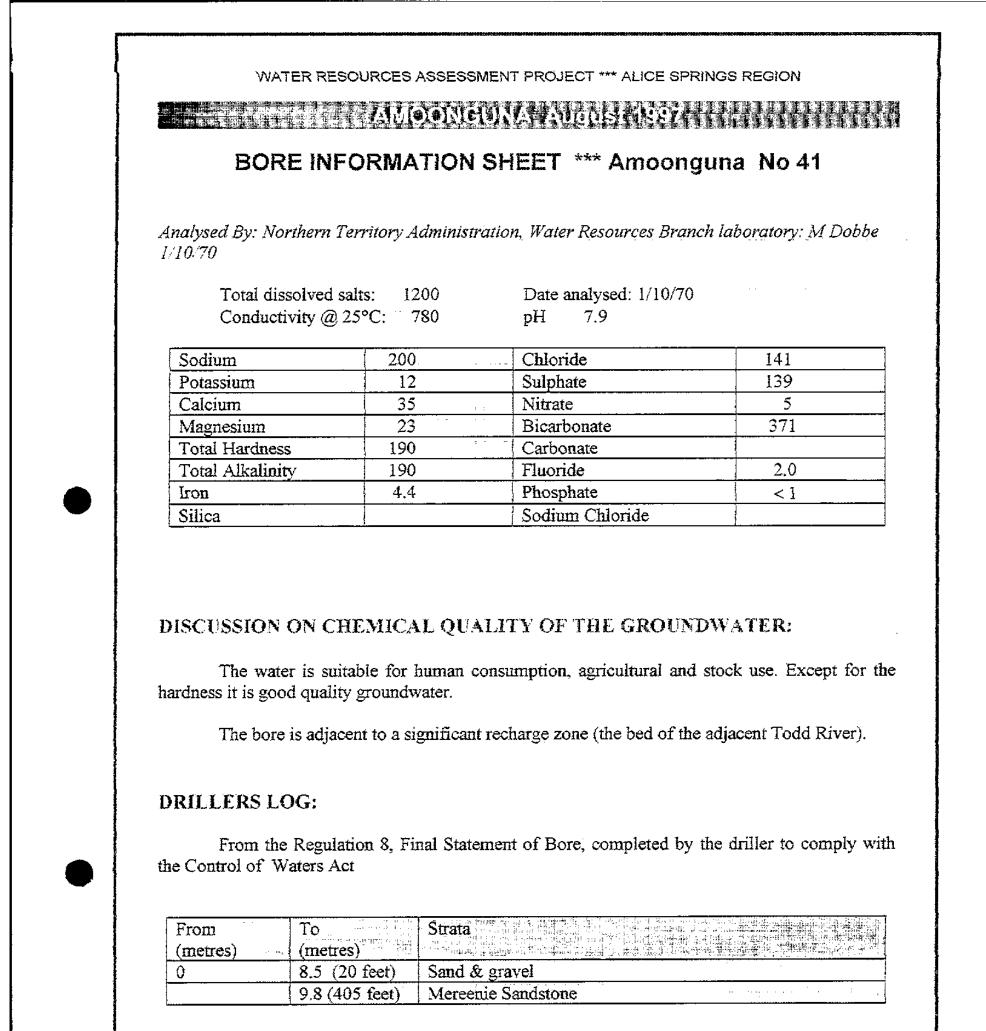
Water was encountered in the Bitter Springs Limestone Formation.

There is around 20 metres of saturated rock were drilled below the water table at this location.

WATER ANALYSIS:

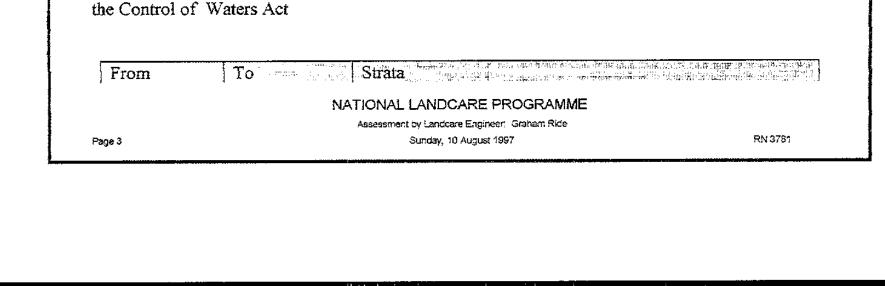
or arming received	l in Darwin Laboratory 29/7/70: NATIONAL LANDCARE PROGRAMME	
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# **GEOLOGISTS LOG:**

From the Regulation 8, Final Statement of Bore, completed by the driller to comply with



# WATER RESOURCES ASSESSMENT PROJECT \*\*\* ALICE SPRINGS REGION

(metres)	(metres)	### · # # · · · # # · · # # · · # · · · # ·
0	6.1	COARSE SAND. Coarse pebbly sand with iron stained grains plus fine white sand (reworked Mereenie ?)
6.1	61	SANDSTONE, predominantly very fine quartz sand grading to medium, grains mostly well rounded, some Subangular, many grains frosted and pitted, white kaolinitic interstitial material
61.0	70.1	SANDSTONE. As above but contaminated with pebbles
70.1	123.5	Samples missing

# **INTERPRETATION OF THE LOGS:**

From	То	Strata
(metres)	(metres)	
0	2	Quaternay aged recent sediments
2	49	Tertiary aged sediments
49	61	Bitter Springs Formation

### **GENERAL INFORMATION:**

Water resources Branch Bore Inspector C Blyth visited the bore on the 4/8/78 and commented that the Bore was equipped with a GM motor, tripod & 6 inch OD casing. He also noted that the bore was 0.4 kilometres west of Bore A 70/8.

Water Resources Branch, Bore Inspector R Marks visited the bore on 3/4/89 and noted the bore was not being used but was equipped with 6 inch casing, 4 inch column, Giles & Gakin pump head, Yangzhou diesel (50 HP) 4 cylinder, a pump house shed & 22 foot tripod.

He carried out a satellite fix and noted that the bore was 300 metres south of Production Bore RN 10669.

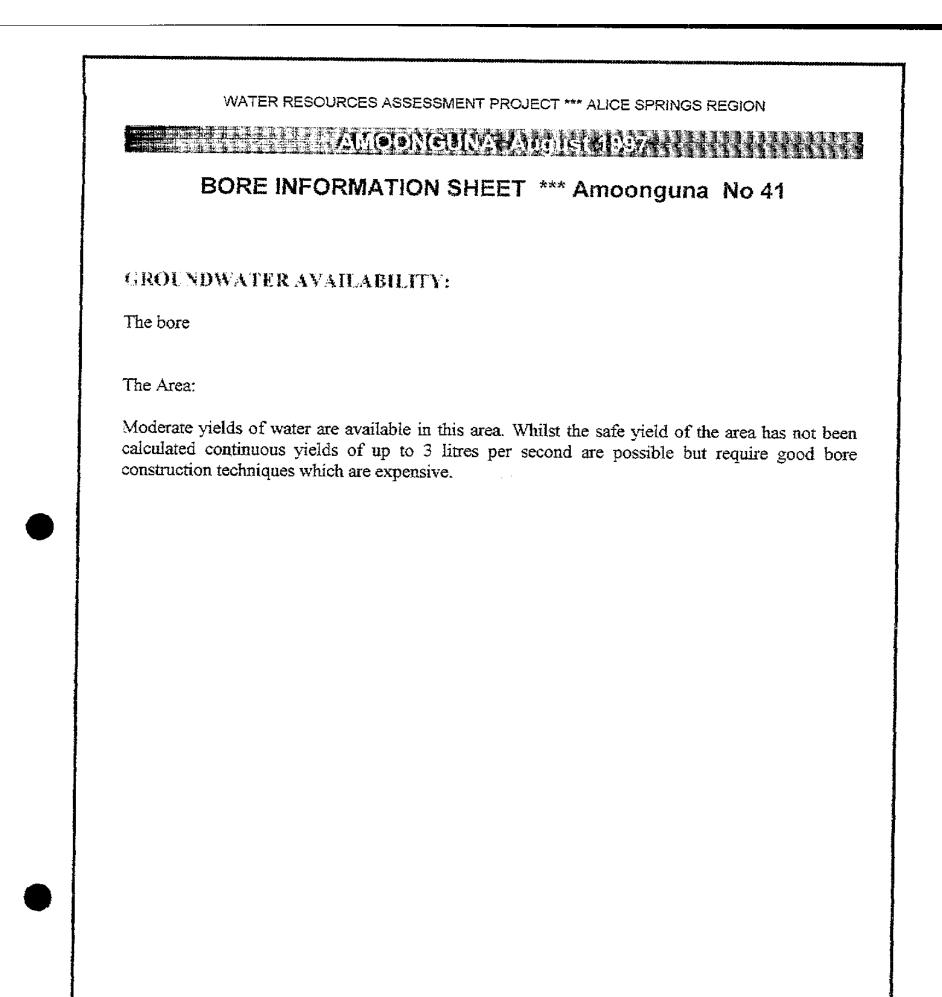
# ADJACENT BORES:

A line of four bores were drilled from the main gate towards the Ross Highway to assess potential aquifers in this location.

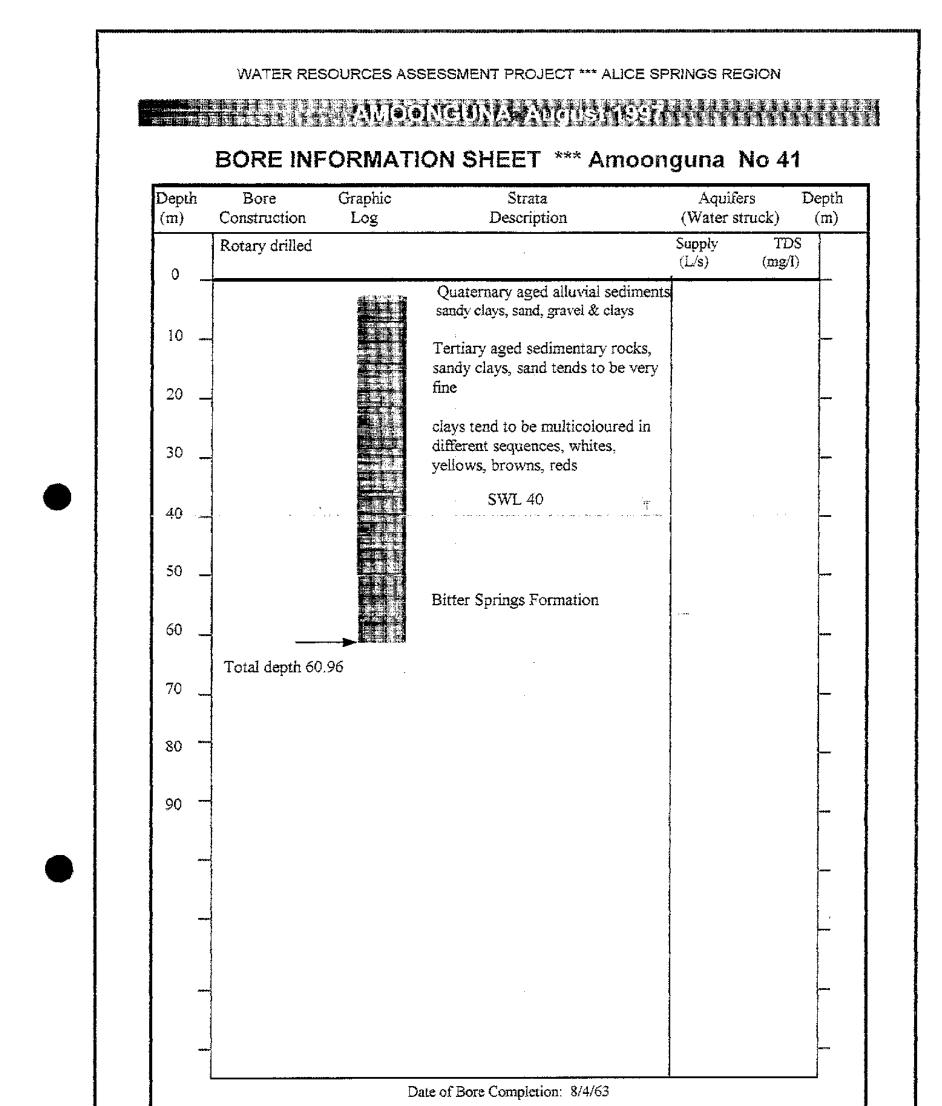
These bores were Amooguna 41; 42; 43; 44 (RN 3781; 3782; 3783; 3784.

# GEOLOGY:

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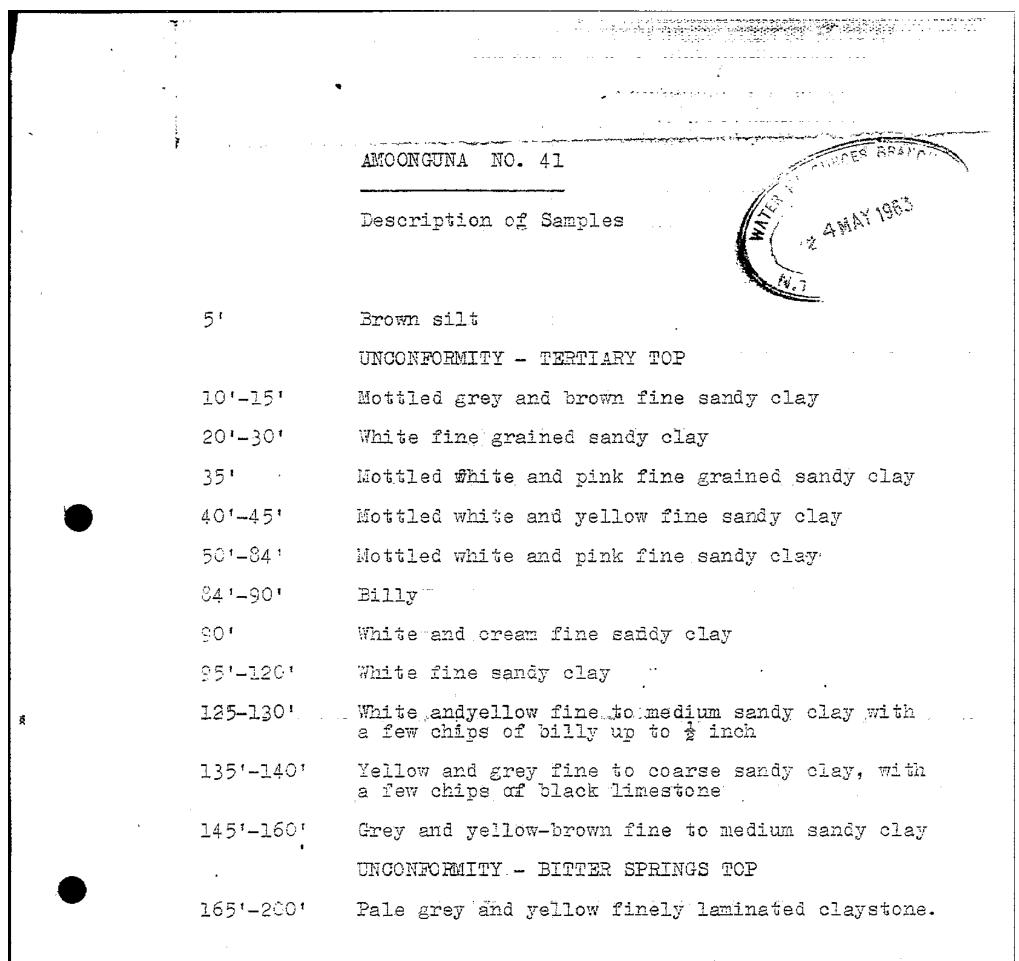


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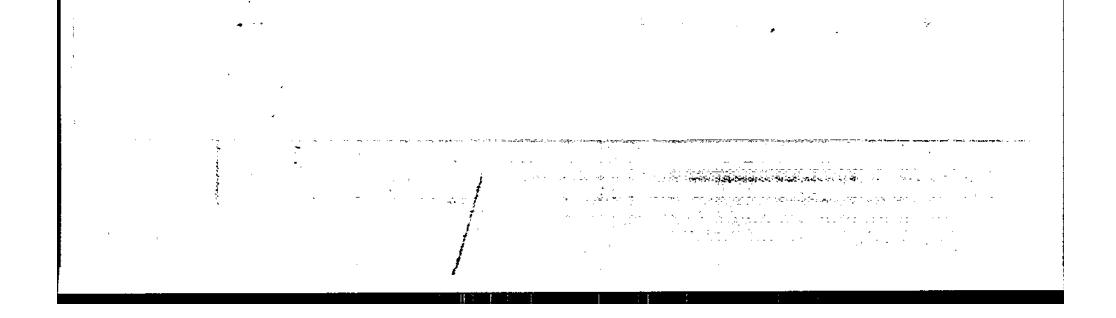
	NATIONAL LANDCARE PROGRAMME Assessment by Landcare Engineer: Graham Ride	
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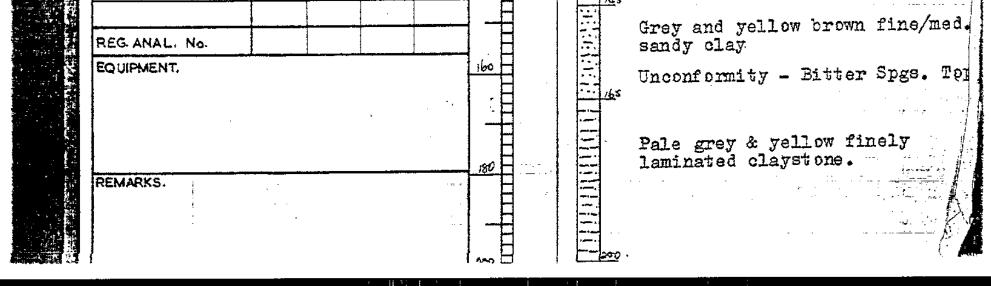
Resident Geologist.



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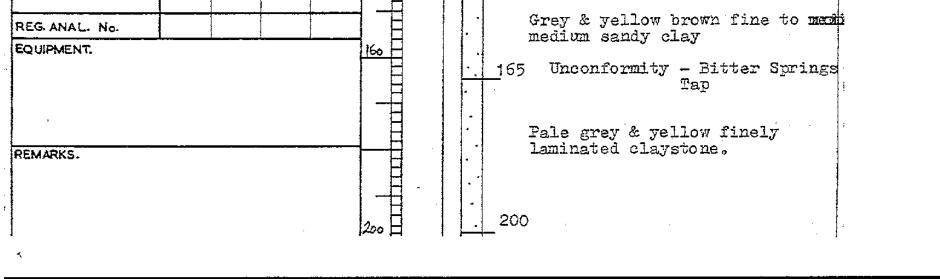
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	N.	T.A. WATE	R RESOL	JRCES I	BRANCH	
	B	ORE	ΠΔΤΔ		IFFT	5F53-14
	0					850251
NAME	Amoonguna		Amoonguna	. main ga	te Index	No. 16/408 -
LOCALITY	Emily		<u> </u>			Ne. 3781
DEPTH	2001	60.97m	<u>.</u>			Νφ.
CACINICS		<u></u>		FORATIONS	<u> </u>	<u>\$9.1</u>
CASINGS	Nil			REENS		
LOCATION	1 1	E	N SURFACE R.L		B M LEVEL	DATUM
CONTRACTOR.	W.R.B.	DRILLER.	Ridge		DATE 7/4 STARTED.	1/63 DATE 8/4/63
	WATER			ST	RATA SE	CTION
AQUIFERS			DEPTH FEET CASING	EC.	9	TRATA
DEPTH STRUCK				Br Br	own silt. rtiary Top	Unconformity -
AQUIFER THICKNE				10	-	
STANDING WATER LEVEL	137			⇒. sa	ttled grey ndy clay	and brown fine
PUMP G.P.H.			20	20	<b>v</b> ~	
DRAWDOWN LEVE	L			Wh Wh	ite fine ø	rained sandy clay
PUMP LEVEL					4	
DURATION HOURS	5			Mo 	ttled whit ained sand	e and pink fine
R.L. S.W.L.			40	<u></u> 0		
WATER TEMPERATURE	°C			Mo	ttled whit ndy clay	e and yellow fine
TRANSMISSIBILITY				50		· · ·
STORAGE COEFE				Mo	++1od whit	e and pink fine
ANALYSES			60		ndy clay	e and bruch true
BINOMIAL CLASSIFICATION						
T.D.S.		-				
CONDUCTIVITY						
TOTAL HARDNESS			<u>\$0</u>	· 80		
CHLORIDE				Bi	lly	•
BICARBONATE				Wh	ite and co	ream fine sandy clay
CARETNATE			1000	1		
SULPHA'				WE	ite fine :	sandy clay
NITRATE						
FLUORIDE						
SODIUM						
POTASSIUM				···· 125		
CALCIUM				Wh Wh Wh Wh Wh Wh Wh Wh Wh Wh Wh Wh Wh W	ite and you	ellow f/m sandy clay Lps billy up to <del>j</del> "
MAGNESIUM				······································		
		-			ay with f	ey fine/coarse sandy ew chips black lime-
ļ				st	one	· · · · · · · · · · · · · · · · · · ·

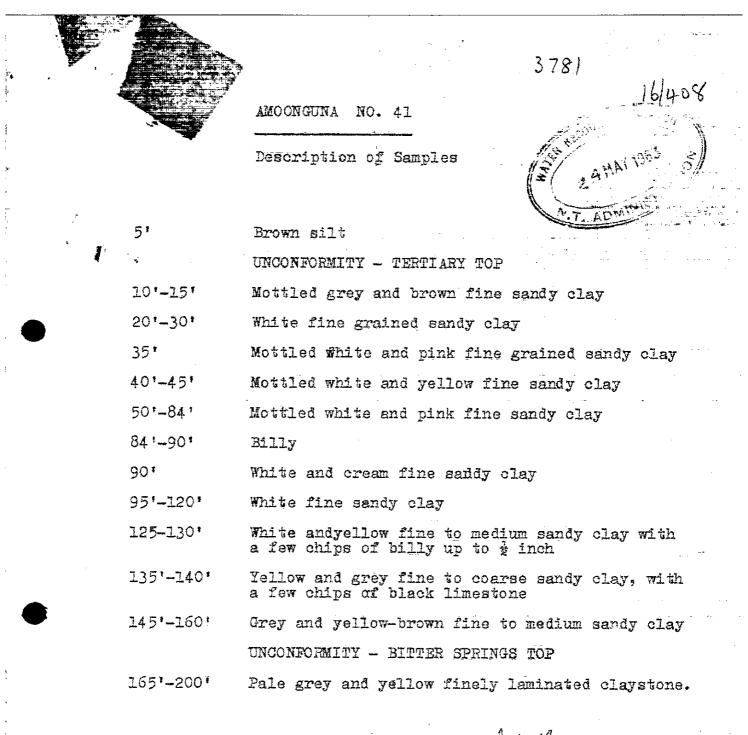


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For		·	· · · · · · · · · · · · · · · · · · ·			·		<b>1966-79 / · · · · · · · · · ·</b> · · · · ·		
		N.T.A.	NATER	RES	SOU	RC	ES	BRANC	Н	*RN(
<b>**</b> .		BOR	Ε	DA	TA	ı	Sł	HEE	Т	
AME Amoongun	<u>a 41</u>		of Amo	ongune	mair	្ន	ate	(N)	DEX No.	16/408
OCALITY EMITY	Gap							RE	G. No.	3781
EPTH 2001								FIL	E No.	
ASINGS					SCRE		ATIONS			
	1	/ E	N	SURFACI	R.L.			B M LEVEL	ļ	DATUM
ONTRACTOR.	WRB	D	RILLER.	Ridge				DATE STARTED.	7/4/63	* DATE FINISHED. 8/4/63
:	WATER	२						RATA	SECTI	
AQUIFERS			D	EPTH FEET CAS		ы			STR	ATA
EPTH STRUCK										nconformity -
UIFER THICKNESS						•	110	lertiar	• –	1.11
ANDING TER LEVEL	137					•	20	Lottled	. grey	& brown fine sand clay
T G.F.A.			2	ዸ∏				White f	ine gr	ained sandy clay
WDOWN LEVEL				Ξ		•				
LEVEL						•	<u>3</u> 0 I	Mottled	white	and pink fine
TEST HOURS						-	1	grained	. sandy	elay
TER or				H		•				& Yellow fine
APERATURE NSMISSIBILITY						•	50	sandy c	lay	,
DRAGE COEFF				H						and pink fine
ANALYSES			••••••••••••••••••••••••••••••••••••••			•		sandy c	:ray	
IOMIAL ASSIFICATION										
), S.			<u> </u>							
NDUCTIVITY				20 F		•				
AL DNESS							-84 -	Billy		
ORIDE									-	<b>.</b>
RBONATE	· · · · ·					•		White a White f	ind cre	eam fine sandy cla ndy clay
SONATE						•				
HATE ATE										
SSIUM			12			,	125		· ·	
CIUM				H		•			fam ab	.ow f/m sandy clay .ips of billy up
GNESIUM						, '	135	to $1/2$	inch.	
	<b> </b>			Ħ			-	Yellow	and gr	ey fine to coarse
			<sup>*</sup>	Ħ		•	_145	sandy c	lay, w	with a few chips stone.
				H		•		DI DLAS	K TIWG	stone.



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WOOLI

Resident Geologist.