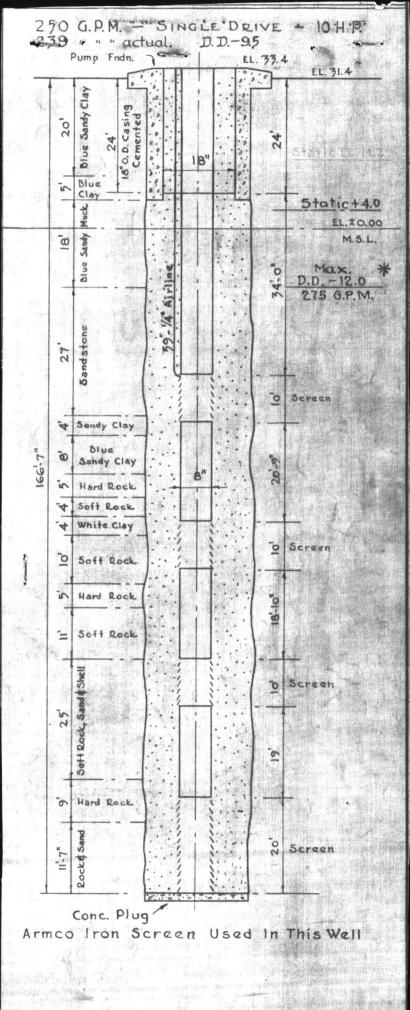
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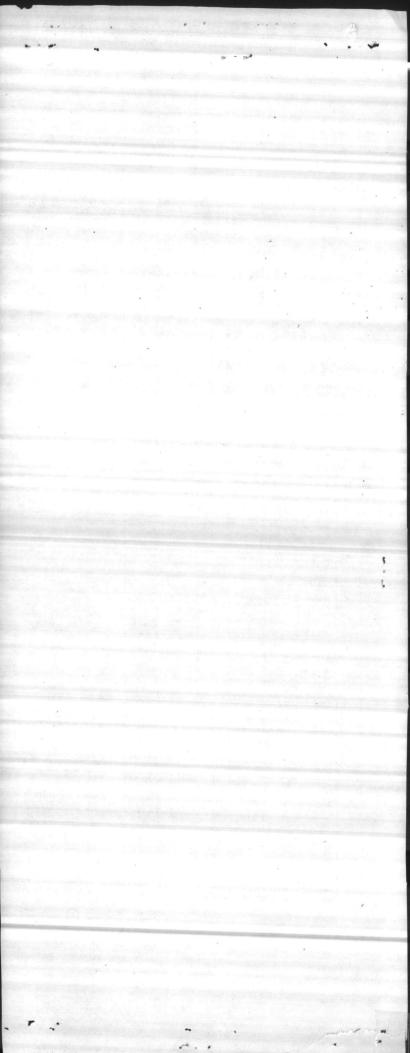
250 G.P.M. SINGLE DRIVE 2,3 " " actual. D.D.-95 Pump Frdn. 7 EL 33.4 + 10 H : P. EL. 33.4 Blue Sandy Clay 16" O. D. Casing Cemented 20, 18" Blue 25 Static+4.0 Muck EL. ±0.00 8 Blue Sandy M.S.L. Max. * D.D. -12.0 275 G.P.M. 59-14" Airling Sandstone 0 Screen Sandy Clay 166-7" 00 20-9" Sandy Clay 8" Hard Rock Soft Rock White Clay 4 2 Screen 0 Soft Rock 18'-10" Hard Rock Soft Rock Soft Rock, Sand & Shell Screen 6 Hard Rock 6 **Pocké** Sand 11-7" Screen Conc. Plug Armco Iron Screen Used In This Well

White the 22

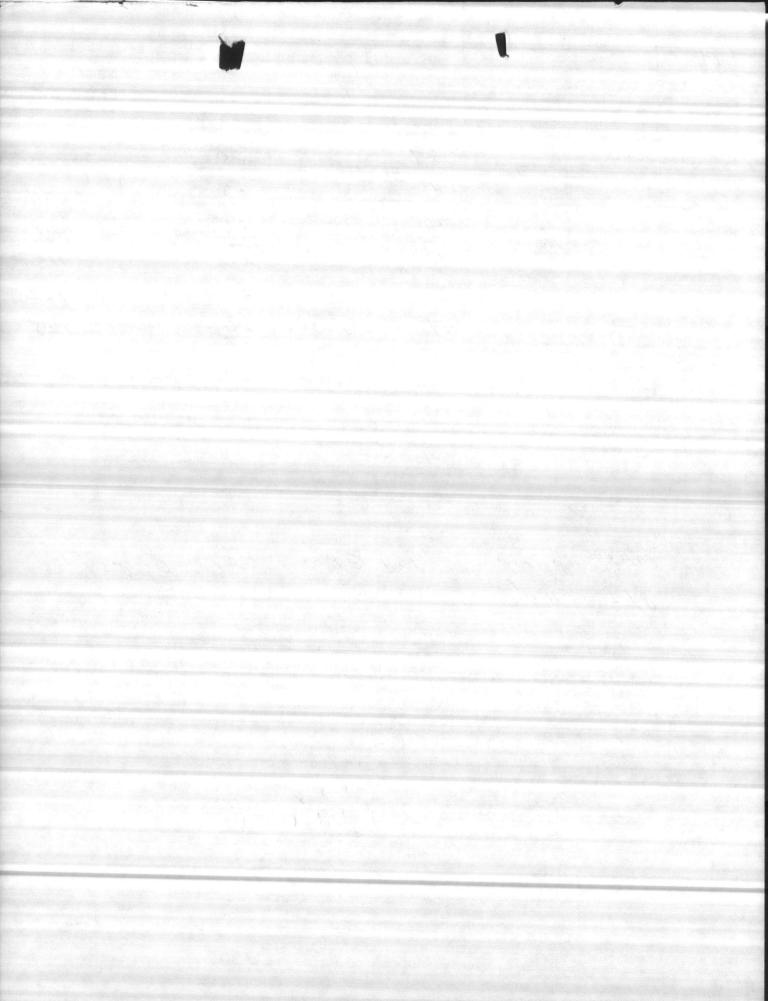
D. T.A. WELL NO. 14

Well Caved 11/29/28 was was filled with fand & grant to 98'





WELL #		The second second					
614		D			M		
DATE	LENGTH OF AIR LINE	STATIC LEVEL	PUMPING LEVEL	DRAW DOWN	DISCHARGE PRESSURE	CAP. PER FOOT OF DRAW DOWN	GPAN TOTAL CAP.
4/1/27	53	not an more transmissional design or promote and	3 9		30	The second secon	100
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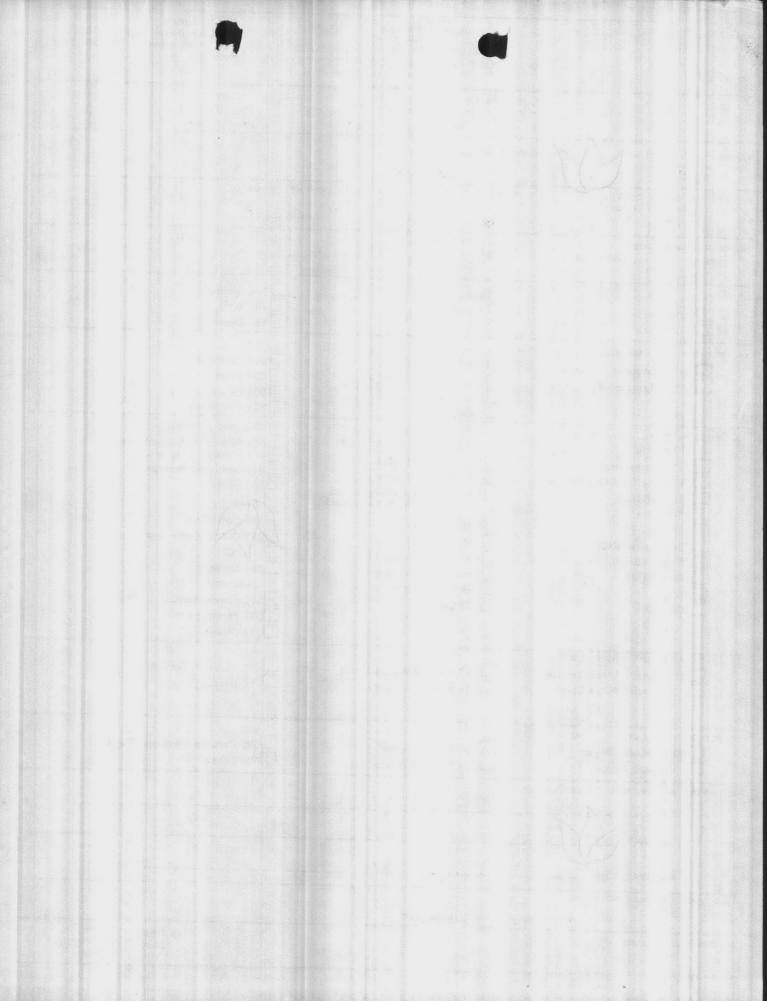
GEOLOGICAL SURVEY

E OF WATER DATA COORDINATION

INVENTORY OF HYDROLOGIC DATA STATIONS QUALITY OF WATER

	PPROVED.	
1	udget Bureau No.	42-R1485
100	pproval Expires	June 30, 1968

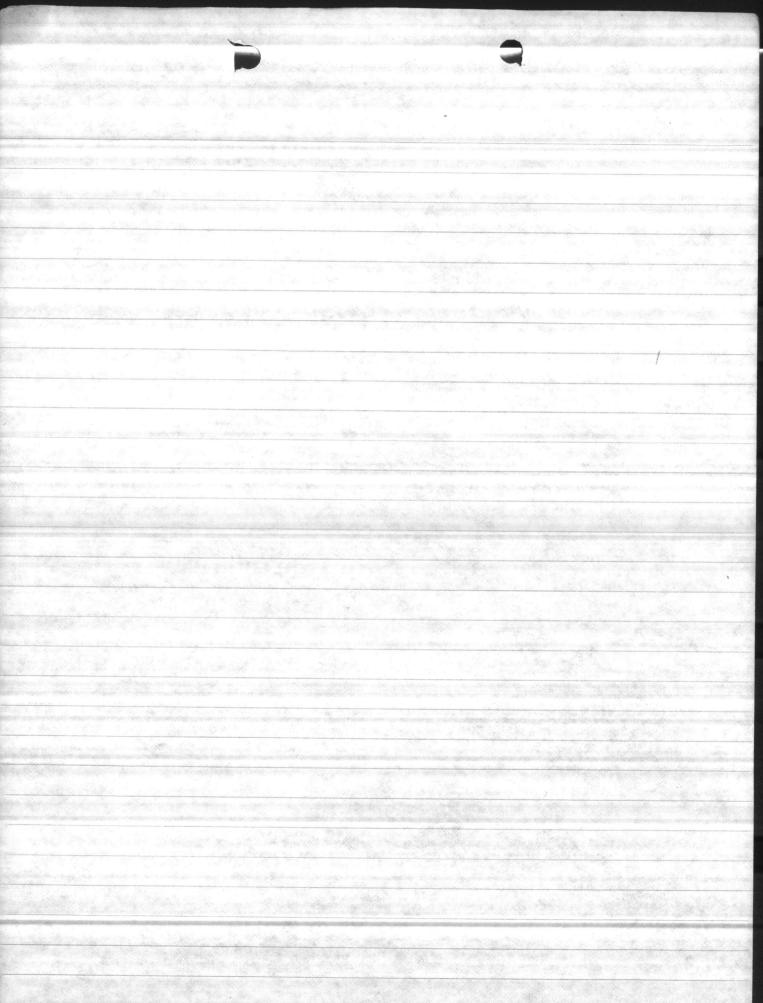
AGE CY CODE	2. TYPE 3. LATITUDE	N 4. LONGITUDE I II W				
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AGENCY STATION NO.	7. STATION NAME					
614	HP-20 614					
DRAINAGE BASIN CODE	9. STATE CODE 10. COUNTY CODE 1	1. COUNTY NAME				
No. Letter	32 133	ONSLOW				
2. PERIOD OF RECORD	Continuous	14.				
Began Discontinued	Y Interruption Exceeds 1 Year					
IS. SITE	103 Lake	106 Spring				
101'Stream	104 Reservoir	107 Well				
102 Canal	105 Estuary					
16. FREQUENCY OF MEASUREMENT	203 Daily	207 Seasonal				
201 Continuous Recorder	203 Daily	208 Annual				
202 Telemetered	205 Monthly	209 Other Periodic				
	206 Quarterly	210 Occasional				
17. TYPES OF DATA AVAILABLE	Chemical	Organic 351 Pesticides (insecticides,				
Physical	331 Dissolved solids	herbicides, etc.)				
311 Temperature 312 Specific Conductance	332 Chlorides Only	352 Synthetic detergents 353 Other				
313 Turbidity	333 Nutrients (Nitrogen an phosphorus compou	nd Biologic				
314 Color		361 Coliforms				
315 Odor	334 Common ions	362 Other Micro-organisms				
316 Radioactivity	336 Radiochemical	□363 BOD				
317 pH (field) 2318 pH (lab)	337 Dissolved oxygen	364 Other				
□319 Eh	338 Other Gases	Sediment 371 Concentration				
320 Other	339 Other	372 Particle size				
		373 Other				
18. SUPPLEMENTARY DATA FOR SITE						
421 Surface Water Station	423 Water Stage or Level	425 Time of Travel 426 Drainage Area				
422 Ground Water Station	424 Water discharge					
19. STORAGE OF DATA	2503 Not Published	505 Data on Magnetic Tape				
501 Periodic Report 502 Areal Report	504 Data on Punchcard	□506 Other				
20. OFFICE AT WHICH DATA AVAILAL						
Office BASE MAT	NTENANCE DEPARTMENT, UTIL	ITIES DIVISION				
Street No. MARTNE C	ORPS BASE	City Code				
	LETETIME N C 2851.2					
	LEJFUNE, N. C. 2851,2	0735				
21. OFFICE COMPLETING FORM						
BASE MAINTEN	ANCE DEPARTMENT	23. DATE				
22. COMPILER'S NAME		23. DATE Month Year 19				



214

9-5-85

						TIME
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		68	45	58	275	15
		71	48	50	287	15
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		78	55	30	320	15
		10				
	7/10	el di	rest	nedoli	n gug	9
	200				00	



WATER ANALYSIS

By N. H. Kellan

Sample from Well No. 14 Reg area Total Solids 264 PPM Dissolved Solids 228 PPM Suspended Solids 36 PPM Volatile Solids PPM Phenol. Alk. as CaCo3 O PPM Silica as Sio2 . 24 PPM Total Alk. " " 190 " Ferrous Iron as Fe 0 " Carbonates " " 0 " Total Iron as Fe //5" Bicarbonates " " 190 " Aluminum as Al. 4.7 " Chlorides as Cl. 15" Calcium as Ca. 70.6" Sulphates as SO₄ /8 " Magnesium as Mg. 8.8" Nitrites as No2 0 " Sodium as Na. 6. / " Carbon Dioxide as CO2 (1) 0 " pH 7.8 Soap Hardness as CaCO₃ 236 PPM Odor S/194f Turbidity 20 REMARKS (1) Pamped With air lift.

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Marine Barracks New River, N. C. 1 August 1942

WELLS-PERMANENT WATER SUPPLY-REGIMENTAL AREA By Layne Atlantic Company

Project P-108-4

Report On Well 14

Locations

4850 feet west of station 355 / 37 on main access road as

shown on M.B. Drawing No. 577.

Date Drilled:

July 1942

Drilling Equipment: Rotary Rig and Rotary Bits

Status:

23" diameter hole reamed and cased with 18" I.D. steel caseing to a depth of 24 ft. The anulor space around this was filled with cement grout. A 17" hole was then drilled to a depth of 178".

Log of Formation:

0	to	201	Blue Sandy Clay
201	to	251	Blue Clay
251	to	431	Blue Sandy Muck
431	to	701	Sand Stone
701	to	741	Sandy Clay
741	to	821	Blue Sand and Clay
821	to	871	Hard Cogunia Rock
871	to	911	Soft Coqunia Rock
91	to	951	White Clay, Sand and Shells
951	to	1051	Soft Rock
1051	to	110'	Hard Rough Rock
110	to	1211	Soft Rock
1211	to	1461	Soft Rock with Sand and Shells
1461			Hard Rock (rough drilling)
1551			Rock and Fine Sand
1781			Sand and Clay
27	THE REAL PROPERTY.	* 1-1-	I HEM

Remarks:

Due to the presence of fine sand it was necessary to construct a gravel wall well.

Gravel Wall Construction:

An 8" steel pipe with sections of armor iron screen was placed in the 17" hole to a depth of 166' - 7".

The anular space around the 8" pipe and screen was filled with a special †" washed gravel to ground level.

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Log of Screen Settings

Steel Pipe to 581 Iron Screen 581 to 681 681 to 881911 Steel Pipe 8819" to 9819" Iron Screen 9819" to 11717" Steel Pipe 11717" to 12717" Iron Screen 12717"to 14617" Steel Pipe 146*7" to 166*7" Iron Screen

A total of 501 of screan was used.

Air Line:

- 59 of to pipe was placed in the well for air line.

Static Level:

18 below surface.

Pumping:

Well was pumped for 36 hours to wash out mud and sand.

Well pumps 225 G.R.M. with a 24 ft. D.D. from static level. Recovers to static in 3 mi. This is approximately 9.4 gallons per foot of drawdown.

See seperate report for chemical analysis.

Report will be made of pump instalations.

N. H. Kellam Asst. Chem. Eng.

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substitution the side with the single and a single of the last the contract of the

design Lovely 181 Self- edelect

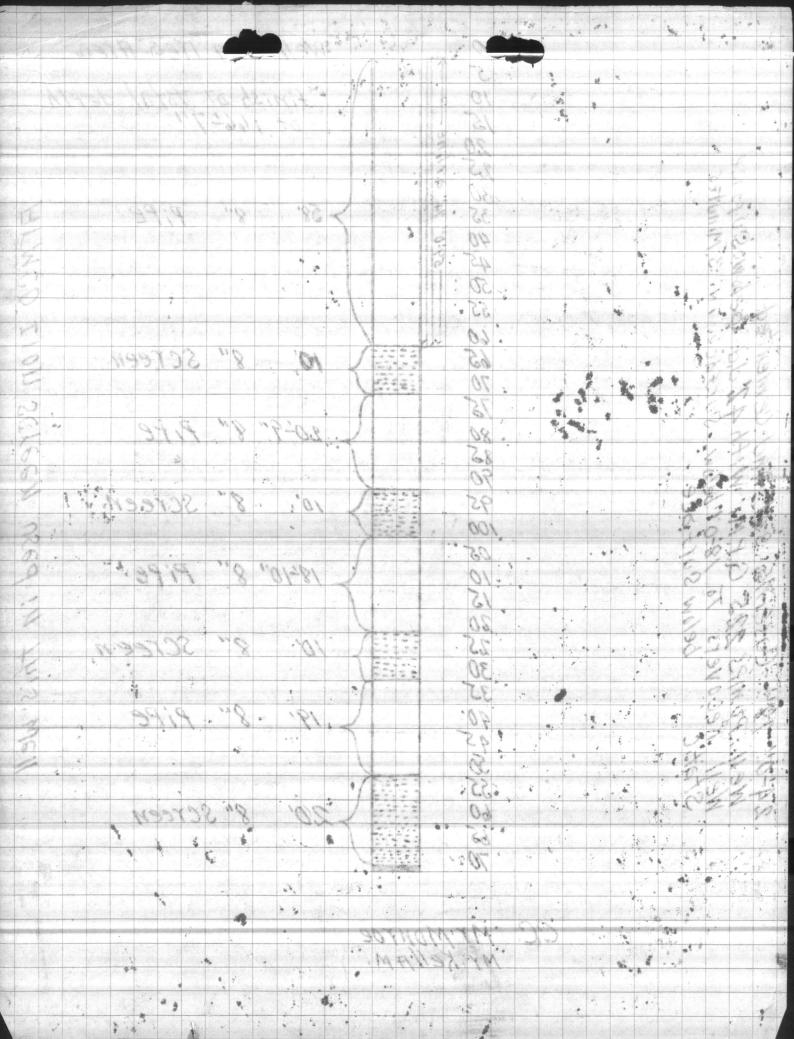
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Well 4 Reg. Area finish at total depth 10 of 166º 7" 20 30 PiPE 58 35 40 45 Screen 65 70 80 85 90 Screen 95 100 15 Screen . 8" Screen CC. MY MONTOR

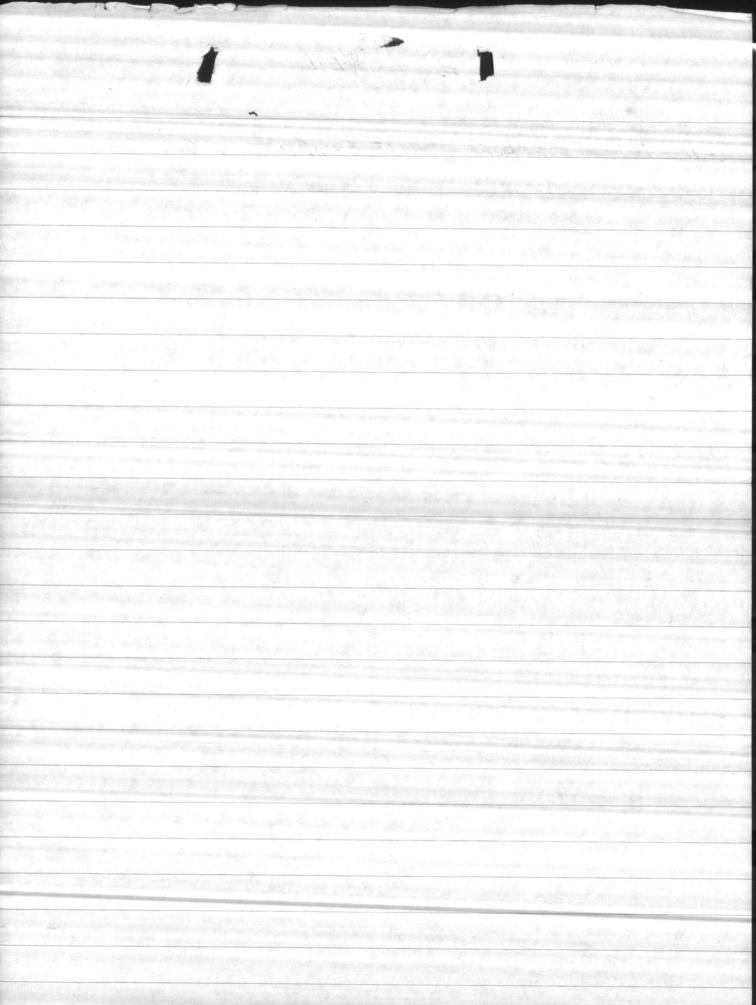


405 Of Fringly Well # 14 Nes area Blue Sandy Clay 20 20 76 25 Clue Clay Blue Soudy Muck 170 Sand Stone 74 5,771dy 6/04 Blue Bue Sondy Clay 82 Very hard Wock Soft ROCK -White Clay Saint and Shells Soft BOCK hord Rough Hock 110 73121 Soft Rock 121 70146 Soft Rich with Sand and Shell in 19 1015 hard Rock (Kovah drilling) 146 17155 13570178 Noch and fine sand 17840" Sandy Clay Well Finished of 166-7" dee 8 MY MONTUR MY KEHAM



14 WELL

2-18-70 - PEPHOED SHAFT BEARINGS & OIL SEAL



WELL # 14

		Ĭ.	,			N	
Date	Line Ft.	G.P.M.	D.D. E1. =	Statie	Shut Off Head	D.D. Pt.	
6-4-53	55	7,	-18.1 GAGE	+6.4	٢.	16.5	
5-21-54	77.		45	₹.	₹.	?.	new Pmy
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11	67						
5-28-54	52	300	-53.5	33?			1
1	75	250	500			7	
6-4-54	146	, ,	52	33		19	
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				Insta		00	
4/15/58		230				[4]	
11/8/44	50	190	-25+	24"		-12.1	SEEWEL
8/5/69	53.5	130		24			TEST.
9-4-69		130	-13.1'	+ 3.9'		17.0'	
os of	3/1/67	Weep 14 A	las Johne	ton sup on	Lorne Be	40	
PUM	PB	4SE T	Jun C	HER"	19 - 18"	: 4-11	-58
		Pu	MPED	חובר דנות	H AIR TO	166-6	1.5.14.54
	24.+6	· An	eater ?	1	5-14	54	(59 FT OLD AIR LINE)
	D. al	4 1	UR	200	-t moas	nel 5	- 13.54)
	Air Lin	ne 52t	6" NE	HIR IN	VE	. 7	1 50 FT 040
		11	JALA	, the kin			AIR LINE)



WELL DATA

Well No. 14

SPECIFICATIONS

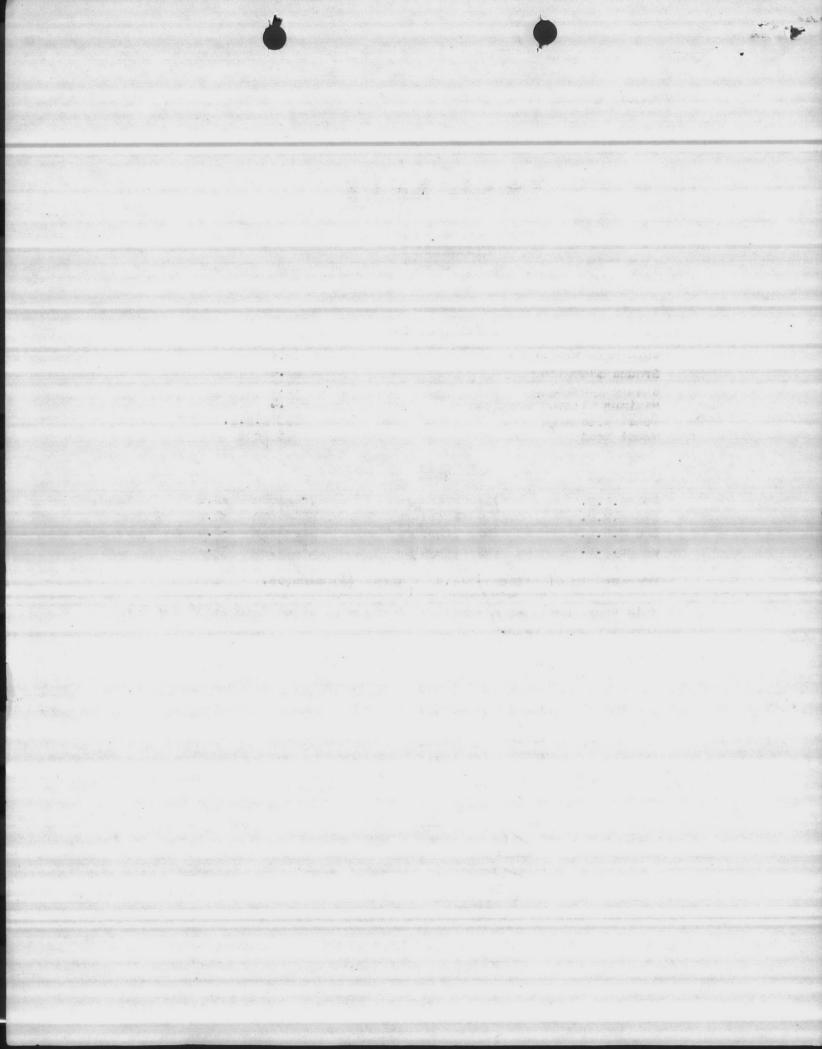
Pump Base Elevation	33.4
Ground Elevation	31.4
Static Elevation	13.4
Maximum allowed Drawdown	-13.3
Total Discharge	250 G.P.M.
Total Head	96 Feet

TEST

295 G.P.M.	15#	Pressure	Drawdown	-5.8
275 G.P.M.	20#	Pressure	Drawdown	-5.5
250 G.P.M.	25#	Pressure	Drawdown	-3.5
220 G.P.M.		Pressure	Drawdown	-1.1

Recovers to elevation + 13.4 in three (3) minutes.

This pump should be discharged to waste if allowed to stand for more than three (3) days.



W E L L D A T A

Well No. 14

SPECIFICATIONS

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Air line 62'

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Recovers to elevation + 12.4 to three (3) minutes.

This pump should be discharged to medue if allowed to athou for more than three (3) days.