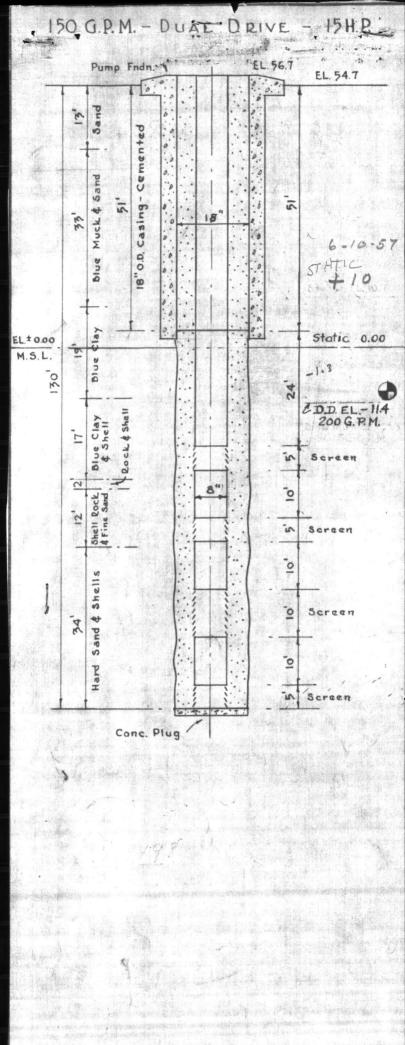
# FILE FOLDER

# **DESCRIPTION ON TAB:**

	R.R. Well 45
<b>8</b>	Outside/inside of actual folder did not contain han written information
	Outside/inside of actual folder did contain hand written information *Scanned as next image

Confidential Records Management, Inc. New Bern, NC 1-888-622-4425 9/08



Existing Pump Operation

RIFLE RANGE WELL

" 5

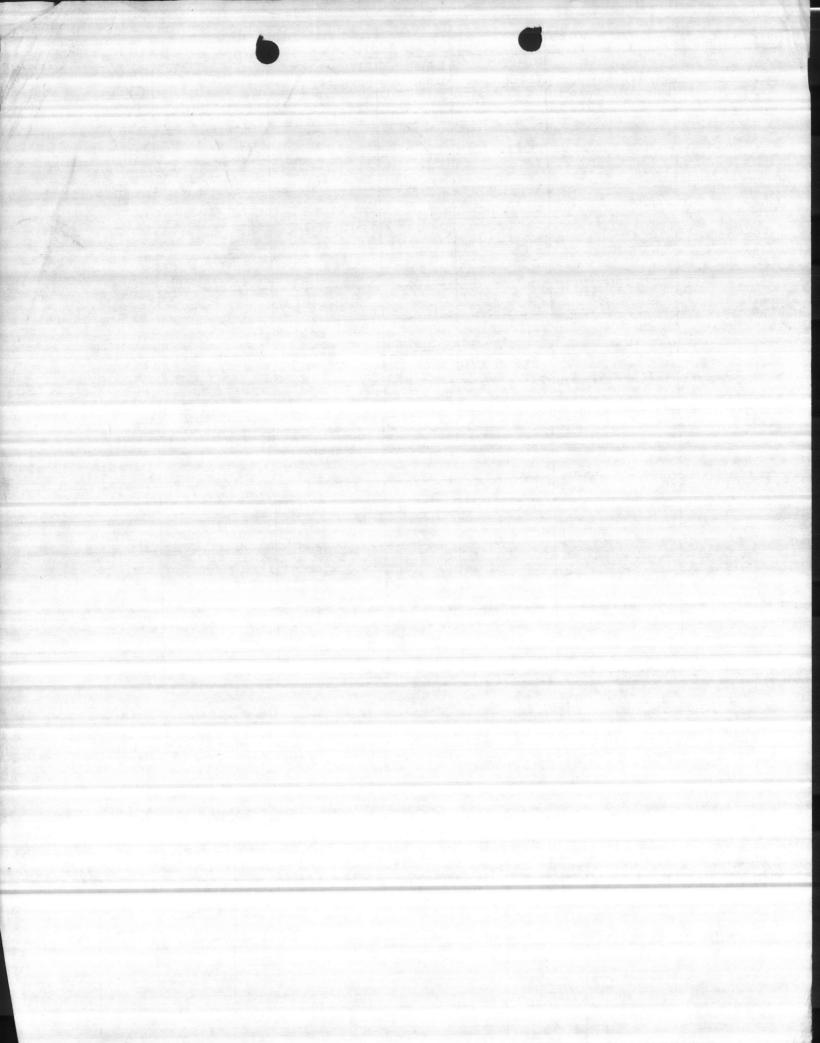
S"



WELL NUMBER RR. 45		Thok	IAS /	ATE 8-22-90		
AIR LINE	STATIC LEVEL	PUMPING LEVEL	DRAIN DOWN	DISCHARGE PRESSURE	GPM	START
80	55	69	55	30	104.	10.
	*	63	18	25	143	20
		65	10	20	170	30
LEFT SE	TAT->	66	17	15	192	40
		entre construction of the			en e	
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deadhead 40 ASI

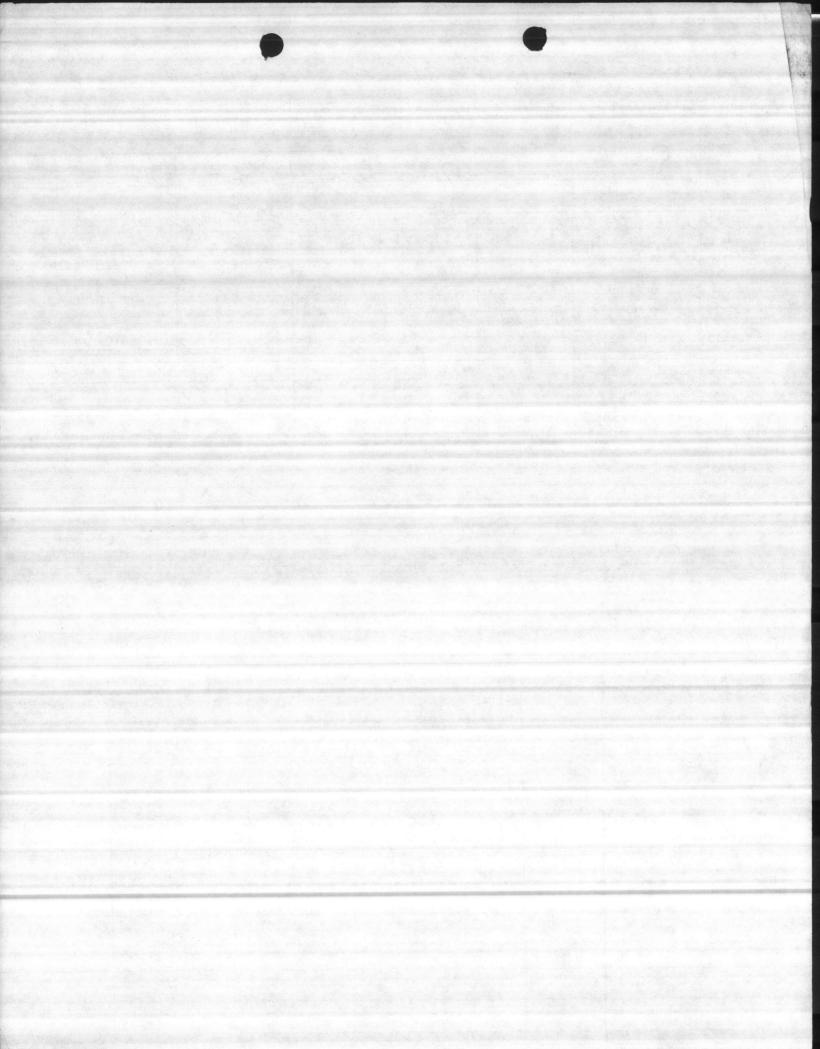
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WELL NUMBER	RR45		AS/HU	DATE 7	DATE 8 3-89		
AIR LINE	STATIC LEVEL	PUMPING LEVEL	DRA'IN DOWN	DISCHARGE PRESSURE	GPM	START TIME	
80	55	60	5	33	104	00	
		62	7	25	151	10	
	The application of the second	63	8	20	178	20	
		65	10	15	195	30	
			a service and a				
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			a. T				

EMARKS

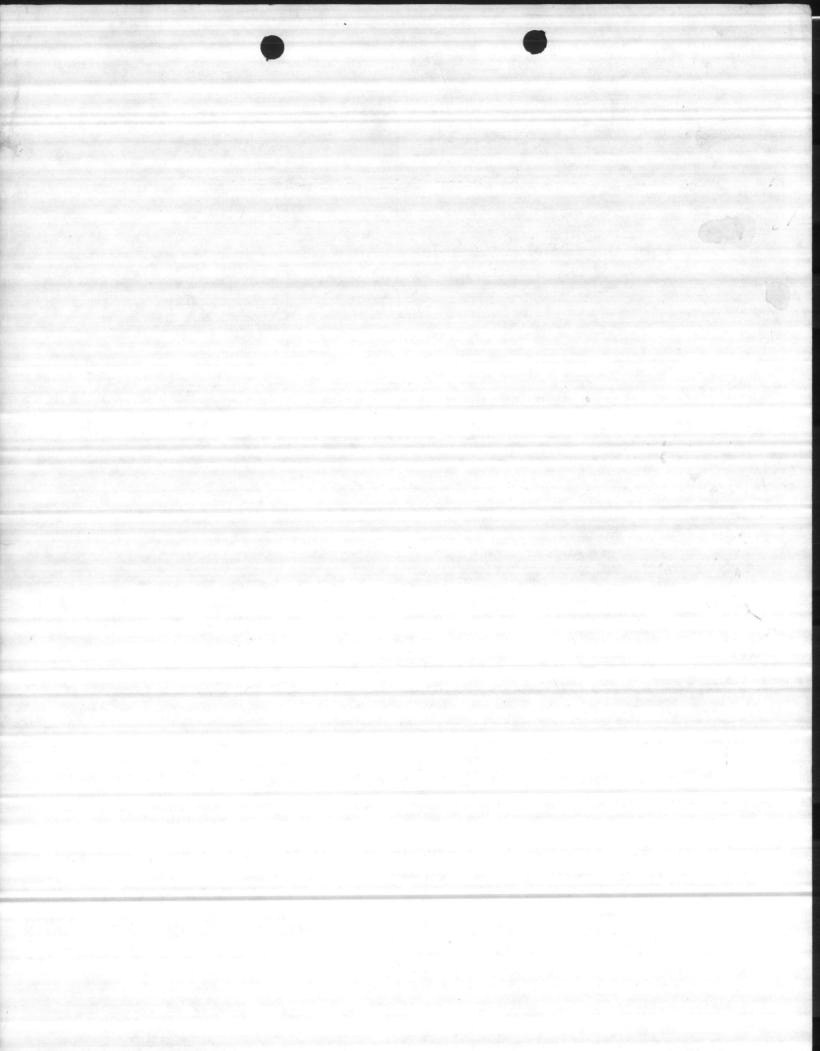
ANUFACTURER	STAGE	S.N.	TOTAL HEAD	SIZE
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		and the second of the second o		Suffer to the second
				· Marganine
		The state of the s		
				792 7 . 394
			1 * /	



WELL NUMBER	K.K. 45	BY Thom	195 d the	inter	DATE 7	1-89
AIR LINE	STATIC LEVEL	PUMPING LEVEL	DRAIN DOWN	DISCHARGE PRESSURE	GPM	START TIME
80	55	60	5	15	104	0/0
						· ·

REMARKS Dead head @ 25 851

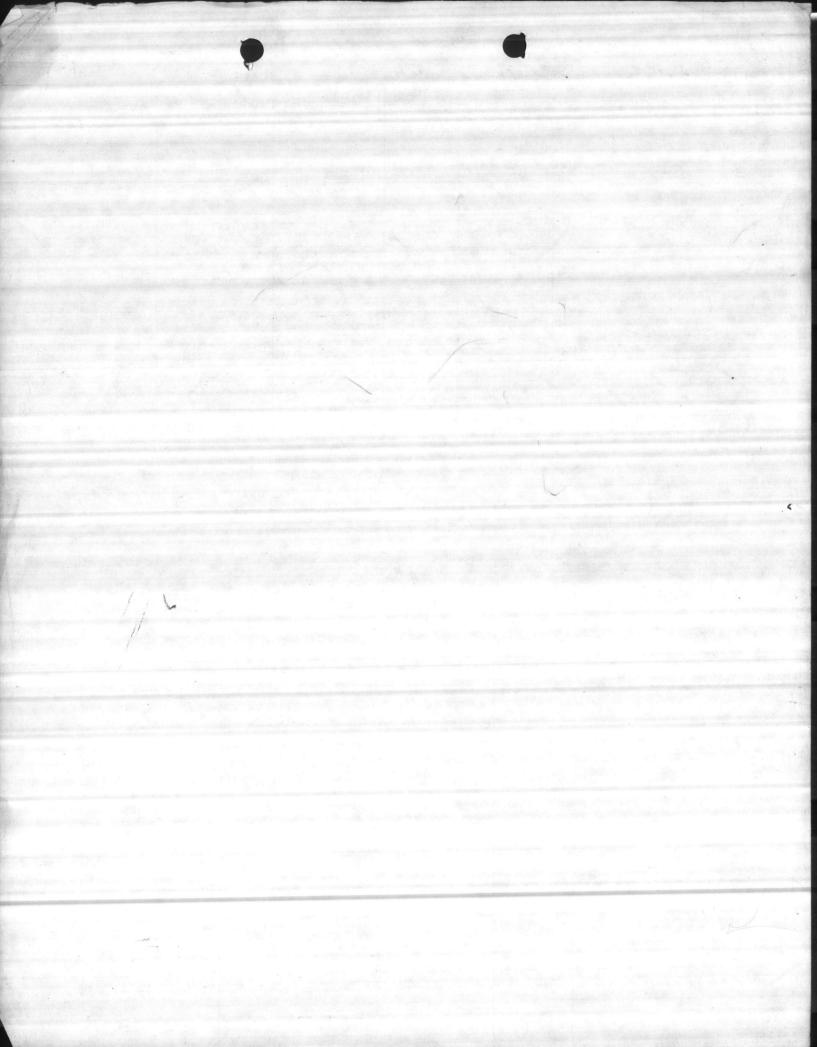
MANUFACTURER	STAGE	S.N.	TOTAL HEAD	SIZE
	- 10 miles			



WELL NUMBER	KR 45	BY Thom	45- 93/2	own	DATE 9-16	1.85
AIR LINE	STATIC LEVEL	PUMPING LEVEL	DRA'IN DOWN	DISCHARGE PRESSURE	GPM	START TIME
80	55	60	5	35	104	15
		66	6	32	154	15
		63	8	29	172	15/
		165	10	25	201	15
		67	12	20	222	15
					A10	
			146			

REMARKS

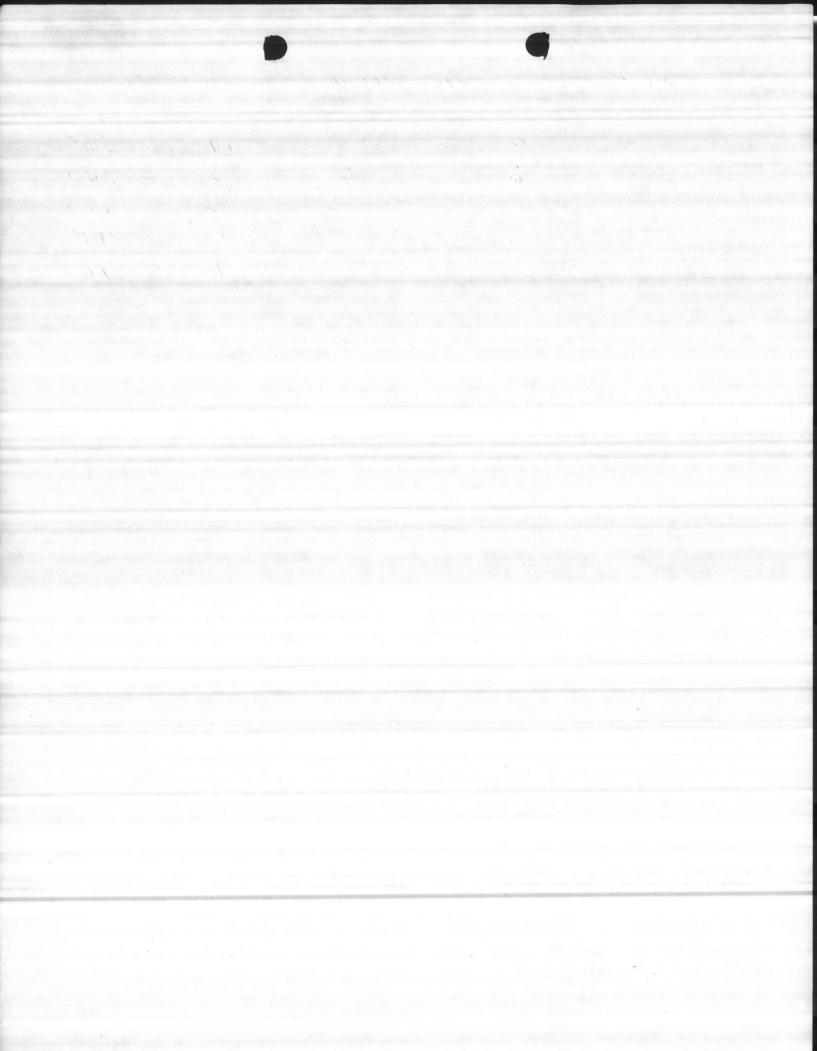
MANUFACTURER	STAGE	S.N.	TOTAL HEAD	SIZE
				- A Taylor - No. (1996)
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	and a second	The state of the s		The State of State
		The second second second	Constant of the Constant	
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	and the second second			
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		The state of the s		
the state of the s	- In the second	the second of th	A CONTRACTOR OF THE CONTRACTOR	



WELL NUMBER	RR 45	BY The	omus-	BROWN	DATE /2-/3-84		
AIR LINE	STATIC LEVEL	PUMPING LEVEL	DRÁIN DOWN	DISCHARGE PRESSURE	GPM	START TIME 13 20	
80	55	60	5	134	104	1330	
		62	7	30	143	1340	
		64	9	25	172	1350	
		65	10	20	199	1400	
		66	11	15	224	1410	
		, 200	**	\$13 2.0 2.0		e de la companya de l	

REMARKS left set at P/L 64' D/D9 D/P 25 Gpm 179

MANUFACTURER	STAGE	S.N.	TOTAL HEAD	SIZE
				1
	The second second			10.45%
			· · · · · · · · · · · · · · · · · · ·	
	Action of the said	100 mg		39.40
	TO MENT THE TANK OF THE	The state of the s		
			mada an order carrier to have given a supple of	200
				(1)
t state <mark>Agrico e e e e e</mark> e e e e e e e e e e e e e e	the second second		enter de la companya	
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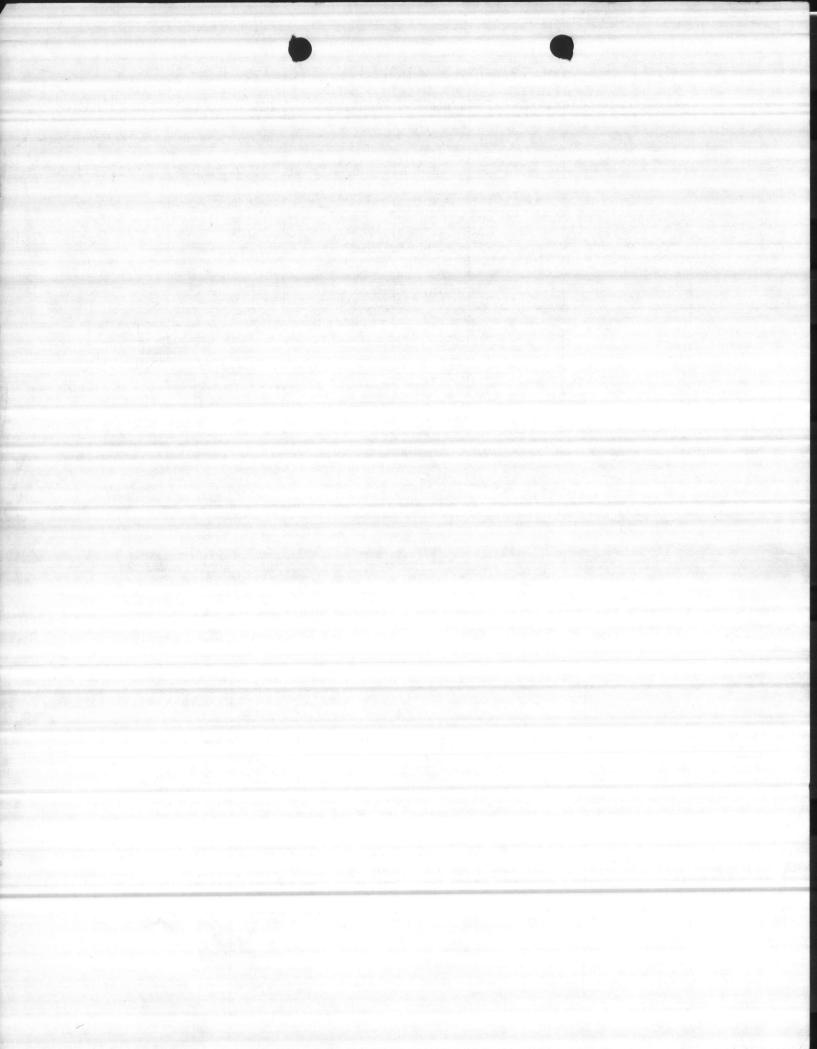


WELL NUMBER	RR 45	BY THOY	nAS/R	AYNOR	DATE 12-	5-83
AIR LINE	STATIC LEVEL	PUMPING LEVEL	DRAIN DOWN	DISCHARGE PRESSURE	GPM	START 1420
80	54	58	4	35	122	1430
		60	4	32	143	1440
E. A. Santa Andrews		62	18	39	162	1453
		63.	9	26	178	1503
		64	10	33	192	1511
•		65	11	20	805	1520
		44	12	17	216	1530
		67	13	15	232	1540

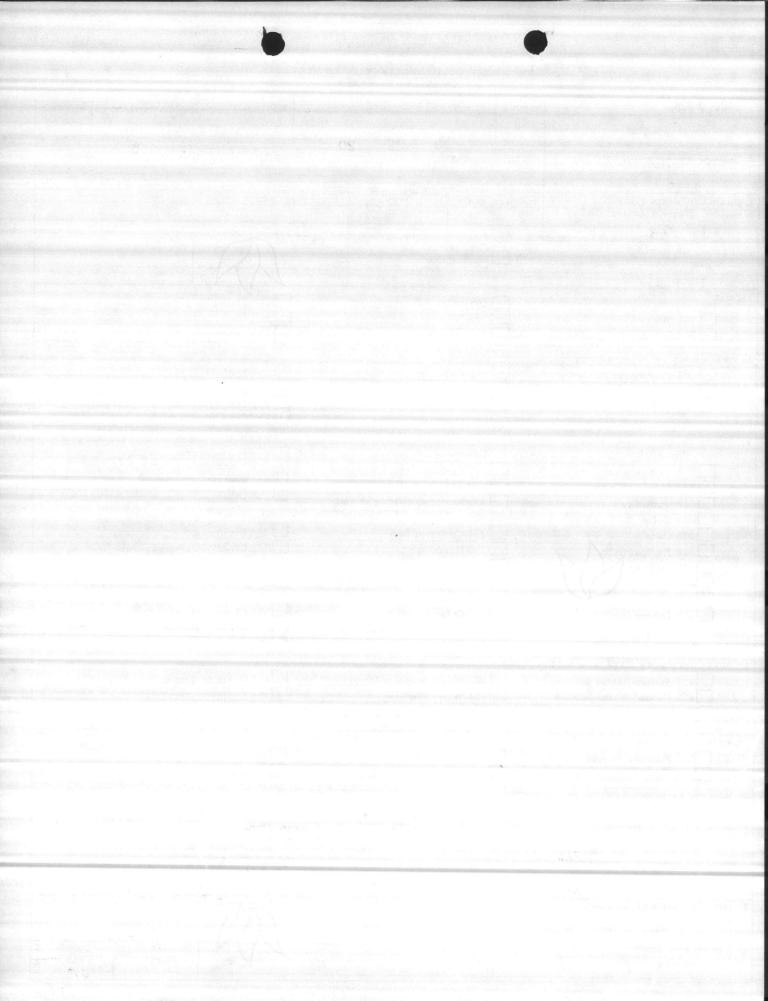
REMARKS

lest set on 30 psi 162 GPM

MANUFACTURER	STAGE	S.N.	TOTAL HEAD	SIZE



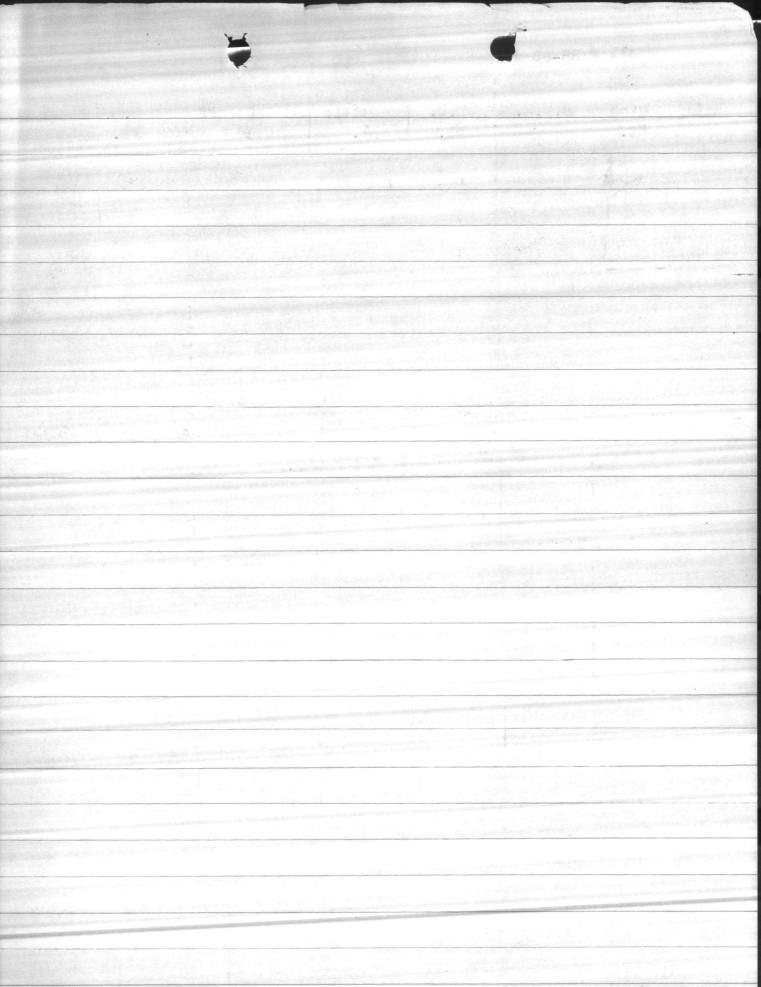
FORM A-4 JUNE '66)	U.S. DEPARTMENT OF THE INTERIOR	Budget Bureau No. 42-K1485
,012 00/	OFFICE OF WATER DATA COORDINAT	
	INVENTORY OF HYDROLOGIC DATA ST QUALITY OF WATER	TATIONS
		L LONGITUDE 5
1. AGENCY CODE	2. TYPE 3. LATITUDE	V 4. LONGITUDE 11 W 5.
MC MC	Q 21 22' 22'	
TARVOY STATION NO	7. STATION NAME	77 26 , 58
6. AGENCY STATION NO.	7. STATION NAME	
RRL5	2885-S	
8. DRAINAGE BASIN CODE No. Letter	9. STATE CODE 10. COUNTY CODE 11: COL	UNTY NAME
6 N	32 133 01	197761
12. PERIOD OF RECORD	Y Interruption	14.
Began Discontinued	Exceeds 1 Year	
1943		
15. SITE	103 Lake	106 Spring
101 Stream	104 Reservoir	≥ 107 Well
102 Canal	105 Estuary	110 Other
16. FREQUENCY OF MEASUREMENT		
201 Continuous Recorder	203 Daily	207 Seasonal
202 Telemetered	204 Weekly	208 Annual
	205 Monthly	209 Other Periodic
	206 Quarterly	210 Occasional
17. TYPES OF DATA AVAILABLE		Organic
Physical	·Chemical	351 Pesticides (insecticides,
311 Temperature	331 Dissolved solids	herbicides, etc.)
312 Specific Conductance	332 Chlorides Only	☐ 352 Synthetic detergents
313 Turbidity	333 Nutrients (Nitrogen and	353 Other
314 Color	phosphorus compounds)	Biologic
315 Odor	334 Common ions	361 Coliforms
316 Radioactivity	≥ 335 Hardness	362 Other Micro-organisms
317 pH (field)	336 Radiochemical	□363 BOD
318 pH (lab)	337 Dissolved oxygen	□364 Other :
319 Eh	338 Other Gases	Sediment
320 Other	339 Other	371 Concentration
		372 Particle size
		373 Other
18. SUPPLEMENTARY DATA FOR SITE		
421 Surface Water Station	423 Water Stage or Level	425 Time of Travel
422 Ground Water Station	424 Water discharge	426 Drainage Area
	A Mater discharge	
19. STORAGE OF DATA		
501 Periodic Report	503 Not Published	505 Data on Magnetic Tape
502 Areal Report	504 Data on Punchcard	506 Other
20. OFFICE AT WHICH DATA AVAILABI		and the second s
Office BASE MAINTENAL	NCE DEPARTMENT, UTILITIES DIVI	SION
Street No.		
MARINE	CORPS BASE	City Code
City, State, Zip		
The state of the s	T LEJEUNE, NC 28542	10735
21. OFFICE COMPLETING FORM		and the state of t
BASE MAIN FNANCE	PEDAD FRANCISM	
22. COMPILER'S NAME		23. DATE
		Month Year



Well # RR-45

	1		1	1		4	Million to the second state of the second
Date	Line Ft.	G.P.N.	D.D. Bl.	Statio	Shut off Head	D.D. Ft.	
6.1-53	113	180	-8.3	+1.3	92 LBS.	9.6	OPER-
1/	138	165	- 7.3			8.6	The same of the sa
//	92.5	213'	-/0.3			11.6	
					4.0		
	new.	Pump	150 G	omx 2	05'hd.	Bung S.	elling 90 ft.
6-5-51	new	Johnsto	n Pan	po put	in open	live by	Healer
6.5-57	V	-	34	43 ft.		9 1.	
6-10.57	p.D.	SPM	Sauce Bre.				
4-15-63	26	149	49"	43 ft.			
					Military Military of the common of the commo		
	Sea great						
Min Washington Inc.							
		Clark and Clark					
				Company of the Compan			
			la l				

6-5-57 AIT LINE 90 FT. LOWER EL. - 338



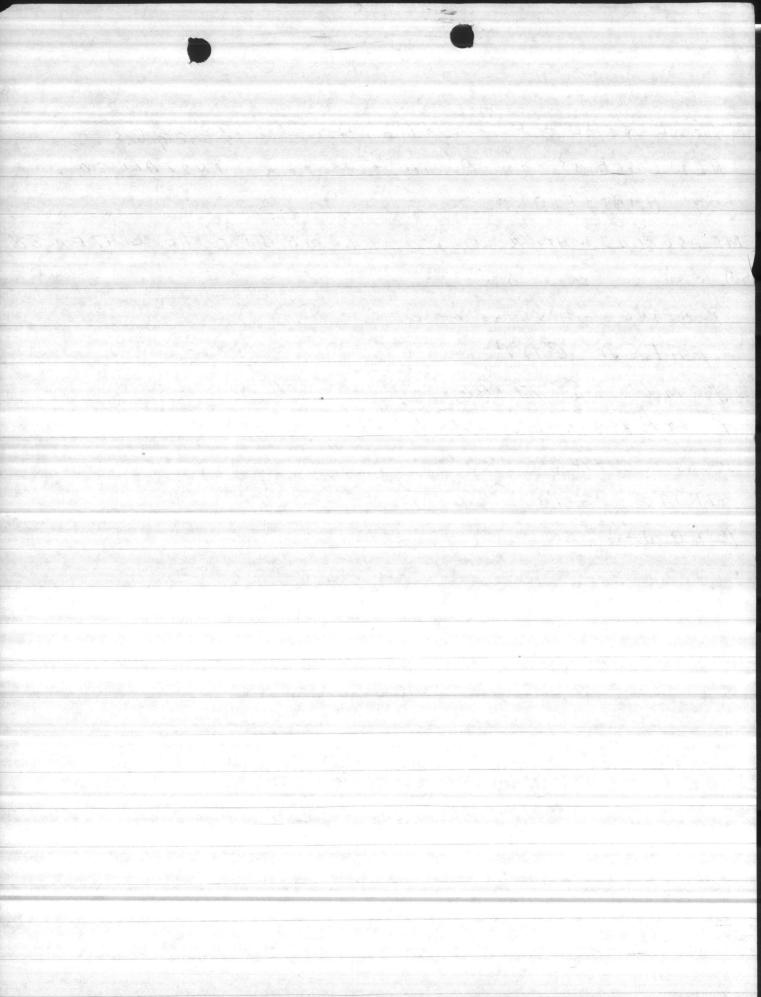
WELL + PUMP BASE FUL

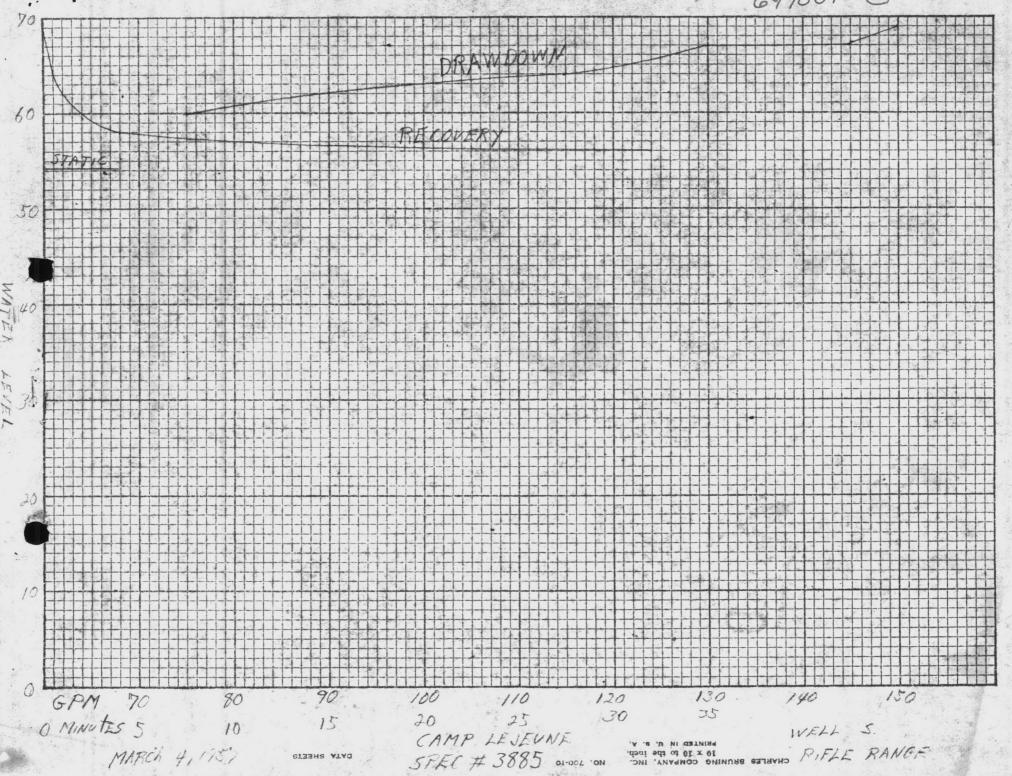
WELL + PUMP BASE FUL

WELL + PUMP BASE FUL

ALDER BASE FUL

PUMP BASE FUL







NOTE: ALL CUSTOMER:\_ P.O.# DEALER: HEATER WELL CO 245 P.O.# JOHNSTON SERIAL: 225 Hend / Capacity Pump # S CHANGE EFFICIENCY AS FOLLOWS FOR NUMBER OF STAGES Ope calling Candillage 205' TOH AT /50 GPM HEAD 182 NOTE: ANY CHANGE IN EFFICIENCY CHANGES EITHER THE HEAD OR Rumping Water Sage Lo 145 125 105 70 BOWL EFFICIENCY Beake HP. Ando 70 190 PERFORMANCE 10 \_STAGE DIA 7CC DEEP WELL TURBINE PUMP 1800 DATE: 3-18-57 04: 50M CURVE SHEET No. PASADENA CALIFORNIA

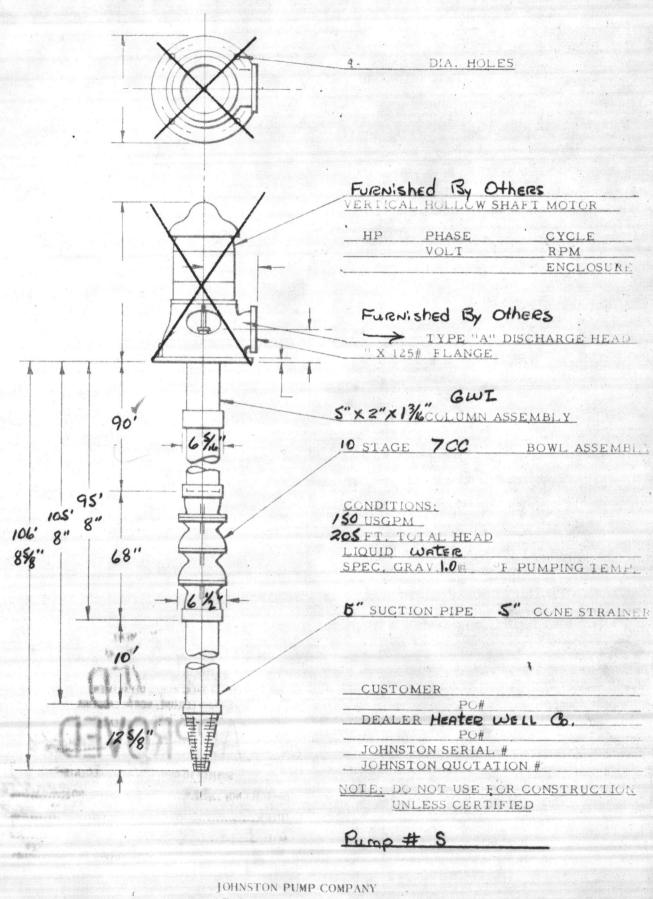
USA

PUBLIC WORKS DEPARTMENT CAMP LEJEUNE, NORTH CAROLINA

CONTRACT NOT SPEC. NO SPEC. NO SPEC. NO SPEC. NO SPEC. NO SPEC. NO SPECE SPECE NO SPECE SP

BY DIRECTION OF OFFICER IN CHARGE OF CONSTRUCTION

## JOHNSTON VERTICAL TURBINE PUMP



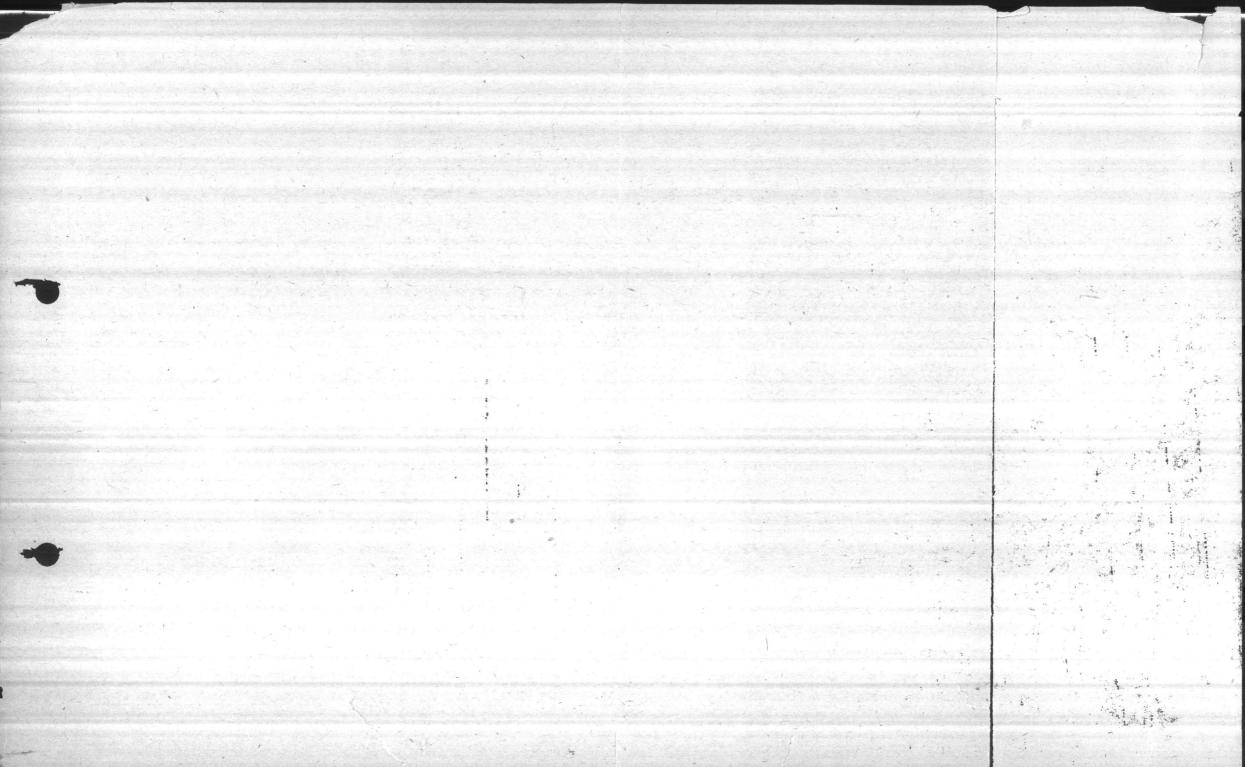
PASADENA, CALIFORNIA

H-1253-A

PUBLIC WURKS DEPARIMENT CAMP LEJEUNE, NORTH CAROLINA

CONTRACT NOV 3885 SPEC. NO 3885 TITLE Repairs to The Provide BY DIRECTION OF OFFICER IN CHARGE OF CONSTRICTION

Rifle Range # 45 Hardness Pate Palk 1.30 140 5/21/42 15 7.7 15 7.9 140 1.1. 5/27/42 150 115 7.7 0.3 5/28/43 7.5 1.23 96 0 8/2/44 7.5 10 125 8/3/44 0 7.1 0,3 125 17/44 45.7 4.2 758 15 12.5 0.84 7.5 126 anerage



ORIGINAL WELL CAPACITY

G.P.M. 150

ORIGINAL WELL	TESTING			
Depth of Well 130	Depth after Cleaning 130			
Pump Size	Test Pump Setting 90			
Pump Setting 90	Measured Static Water Level			
Static Water Level 6 4 00	Depth of Air Line 90			

Static on gauge 56' 0"



CONDITION OF WELL - Cleaned 20° of sand out of well. Existing pump was broken during removal. One bowl was removed and pump replaced.

Capacity same.

### STATIC LEVEL ON GAUGE

Inches of water in dizometer tube.	G.P.M.	30 Min.	45 Min.	60 Min.	1 Hour
	75	PL	PI	PL	PI 60
	90	PL	PI	PI	PI 62
go and well-state transfer to the	115	PL	FI	PL	PI 64
	130	PL	PL	PL	PL 07
	145	PL	PL	PL	PL 67
	150	PL	PL	PL	PL 69
		PI	PL	PI	PL
		PL	PI	PL	PL
		PL	PI	PI	PL
		PL	PI	PL	PL
		PL	PI	PL	PI

10	Sec.		67
20		PL	66
30		PL	64
40		PL	64.5
50		PL	63
60		PL	. 62
2	Min.	PL	59.5
4		PL	58
8		PL	57 _
16		PL	50.5
32		PL	50

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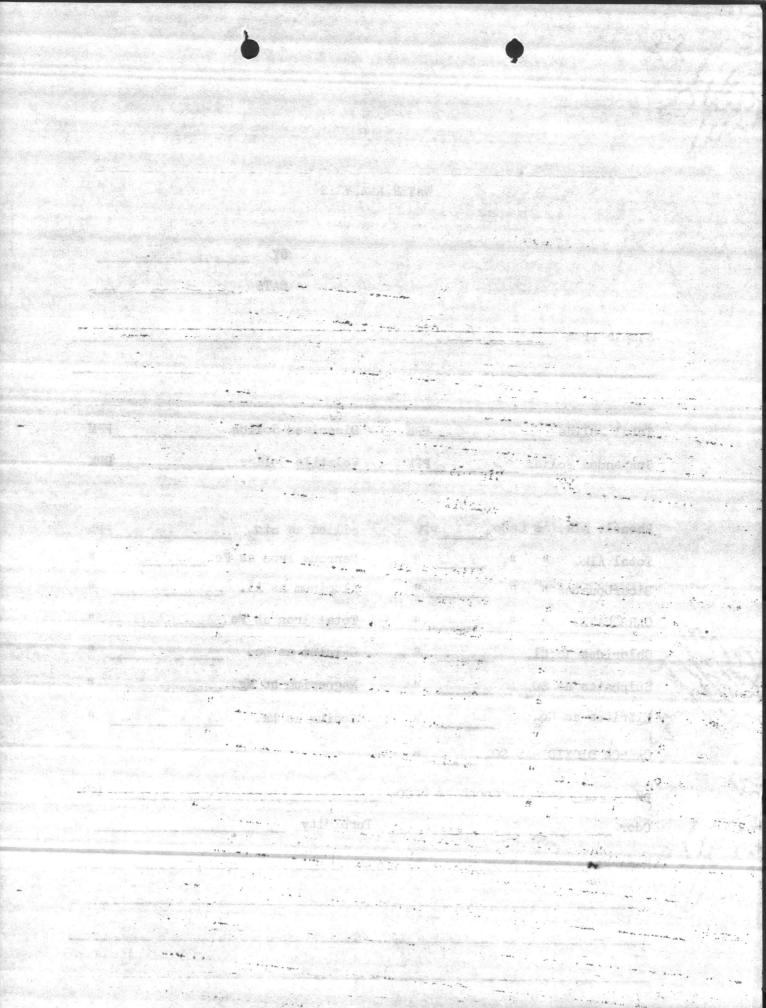
#### WATER ANALYSIS

		BY	8-3-	<u>-</u>
Sample from WELL		<u> </u>		
Total GolidsF	PPM	Dissolved Solids		PPM
Suspended SolidsF	PPM	Volatile Solids		_DPM
Phenol. Alk. as CaCo3 OP	PM	Silica as sio <sub>2</sub>		_PPM
Total Alk. " " 125		Ferrous Iron as Fe		
	11	Aluminum as Al		
CARBONATES " "	11	Total Iron as Fe	1.2	
Chlorides as Cl	11	Calcium as Ca.		·n
Sulphates as SO <sub>4</sub>	11	Magnesium as Mg.		11
Nitrites as No2	11	Sodium as Na.		
CARBON DIOXIDE AS CO2	n			
pH 7.5 Soap Hardness as			124	_ PPM
Odor		Turbidity		
Remarks				
en per grande de la companya del companya de la companya del companya de la companya del la companya de la comp			Tarana Day	
	er de selection	en de la companya de La companya de la co		

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#### WATER ANALYSIS

		BY		
		DATE 8-	- 2 -	44
Sample from WEL	1 8			
sample from				
Total Colids	PPM	Dîssolved Solids		_PPM
Suspended Solids	PPM	Volatile Solids		_PPM
Phenol Alk as CaCo.	A DDM	Silies as sio		PPM
Phenol. Alk. as CaCo3		Silica as sio <sub>2</sub>	we w	FF1%1
Total Alk. " " /-		Ferrous Iron as Fe		
Bicarbonates " "	- "	Aluminum as Al.	Harry Annual Common Common Annual Common Com	- "
CARBONATES " "	"	Total Iron as Fe	1.3	!!
Chlorides as Cl.	10 11	Calcium as Ca.		11
Sulphates as SO4	11	Magnesium as Mg.		_ "
Nitrites as No2		Sodium as Na.		- "
CARBON DIOXIDE AS CO2	н		nari Stat	
pH 7.5 Soap Hardness	as CaCO3	research and the second se	96	_ PPM
Odor O		Turbidity		
Remarks		A STATE OF THE SECOND STAT		district.
				60 (25)
the appearance of appearance of appearance and appearance at the second		en e		gjulkturg Græniske



## WELL "S" - RIFLE RANGE

29 September, 1944

Elev. pump base			56.7			
Elev. ground		!	54.7			
Static water level		+	0.7			
Draw down 24.5		-2	23.8			
150 G.P.M. against 205 head	ζ.					
Air line 92° Elev. DD. ga	auge	5	56.7			
115 G.P.M. 76 lbs. pressure	D.D. 6	641 1	to Elev.	- 7.3	T.H.	2391
145 G.P.M. 70 lbs. pressure	D.D. 6	65' t	to Elev.	- 8.3	т.н.	226
165 G.P.M. 65 lbs. pressure	D.D. 6	561 1	to Elev.	- 9.3	T.H.	215'
175 G.P.M. 60 lbs. pressure	D.D. 6	691 t	to Elev.	-12.3	T.H.	2071

Recovers to Elev. -1.3 in 3 min.

Augir, reduction PS

eard main i.vels 1.00

May. ground 1.40

T. Justin Static water lavel

9.723 Trey to no 24.01

150 0.2. W. Market 209 Resalts

T.00

115 5.2. 76 lbs. pressure D.D. 64 to blev. - 7.7 - 4.19.

16) C.I.S. & Tor. messure ... b. to .lev. e. 193 Mar. W. D. 101 get 1

175 d.d.s. 60 lbs. presence 1.3. 69 to Stav. 412.3

Recevere to let. - 1.v in z - h.

Marine Berracks New River, N.C. June 12, 1942

Wellst

Permanent Water Supply

By Layne Atlantic Co.

Report on Well No. 2, or Well S, at Rifle Range #4 S

Locations

65° west of Center line of Access Road at

Station 53 & 67.

Date Drilleds

May, 1942

Drilling Equipments Rotary rig, bits, and equipment.

Statust

Ground elevation 29.3

A 23" hele drilled to a depth of 51 feet. 511 of 18" casing set and the anular space filled with cement grout. A 17gm hole was then drilled to a total depth

1f 138 feet.

log of Pormation: 0 to 21 Top Soil 2 to 131 Sand

13 to 46' Blue muck and fine sand

46 to 651 Blue clay

65 to 821 Blue clay and shell

821to 841 Rock and shell, very hard 84 to 961 Shell rock and fine sand 96 to 1331 Hard packed sand with shells

133 to 1381 Blue clay

Remerke:

From 821 to 841 was very hard rock and had much trouble cutting through it. There was very little water in the upper strata of sand. Well was finished off at 1309 with gravel wall construction.

Gravel Wall Construction: 130° of 8" steel pipe with sections of silician bronze shutter screen was placed in the well and the anular space was filled with a special is cape may gravel.

PARTIES CONTRACTOR AND SERVICE

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APANA LANGE CONTRACTOR

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#### Continued -

Log of Sereen Settings		to	75°		pipe	screen
			901		pipe	
	90	to	951	811	bronze	screen
	95	to	105	A	pipe	
	105		Programme Tolking Co.		sereen	
		435, Taries, 40	125		pipe	
	125	to	1301	8"	screen	

The bottom of the screen was filled with a cement plug. The steele pipe was of threaded joints and the screen was welded.

Air Lines 90 feet of to pipe was welded to the 8" pipe to be used for air line.

Static Level: AA" from surface.

Pumping: Well pumps 130 GPM with a 19 draw down from static level.

Removers to 10t below static in 5 mi.

Report will be made later of pump instalation.

See separate report for chemical analysis.

N. H. Kellam Asst. Chemical Engineer

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A DESCRIPTION OF THE PARTY

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Place N. L. L. Mar Marine Committee Committee