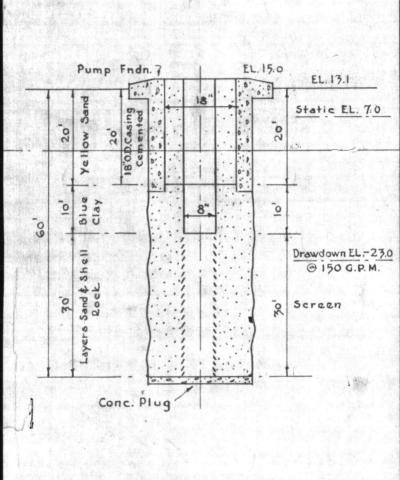
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DESCRIPTION ON TAB:

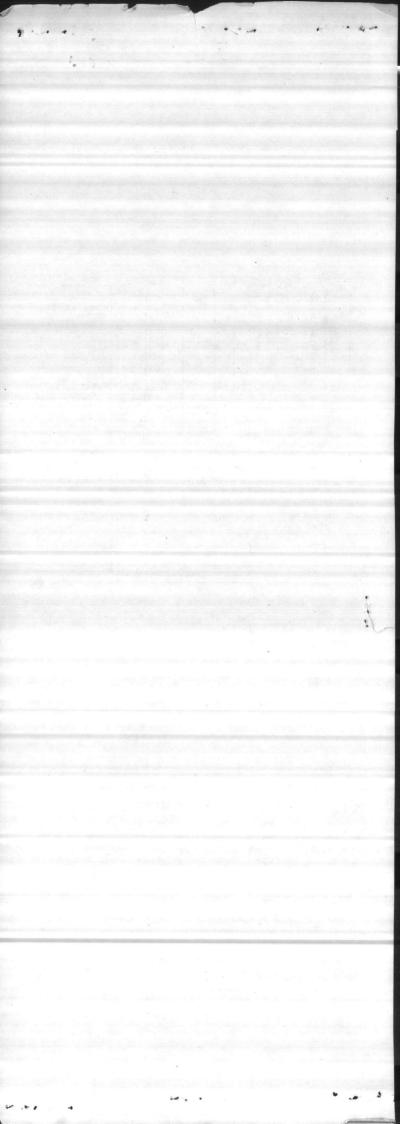
B.B. Well 43
Outside/inside of actual folder did not contain hand written information
Outside/inside of actual folder did contain hand written information *Scanned as next image

Confidential Records Management, Inc. New Bern, NC 1-888-622-4425 9/08 JOOPM - DUAL DRIVE - 10 H.P.

need 8.5 ft on air line to clear screens



BALLOON BARRAGE WELL "W"43



QUOTATION

JOHNSTON PUMP COMPANY

SEE NOTE

MPANY

NIA 91740	01 1000
- Purchasing Department	QUOTATION NO.: 81-1088 DATE: 9-15-81 PAGE: Rev. 9-28-8 NUMBER OF UNITS: 1 SERVICE: Well
	SUBMERGENCE:DESIGN HEAD IN FEET: 145TEMPERATURE: Atm
PUMP SPECIFICATIONS NO. OF STAGES:8 BHP AT DESIGN:7.4 DISCHARGE6"\times125# //	RPM: 1750 MAXIMUM HORSEPOWER: 7.5 ASA FLG.
DRIVER: 7-1/2 HP VI VOLTS PHA Motor and Amarillo Combin DISCHARGE HEAD: "A" Cast COLUMN PIPE: 4" Steel, T LINESHAFT: 1" stainless, C LINESHAFT BEARINGS: Rubber LINESHAFT BEARING RETAINED BOWLS: C1 Class 30 or IMPELLERS: Bronze IMPELLERS: Stainless BOWL SHAFT: Stainless	R: Bronze Better Aluminum Bronze Ion Rubber & Bronze BOX: Soft Packing combination drive
	PUMP SPECIFICATIONS NO. OF STAGES: 8 BHP AT DESIGN: 7.4 DISCHARGE 6 "× 125 # MATERI VOLTS PHOMOTO AND AMARITIC COMBINES LINESHAFT: 1" stainless, LINESHAFT: 1" stainless, LINESHAFT BEARING RETAINE BOWLS: C1 Class 30 or IMPELLERS: Bronze IMPELLER WEAR RINGS: XI BOWL SHAFT: Stainless BOWL SHAFT: Stainless BOWL SHAFT: Stainless BOWL BEARINGS: Combinat: XMECHANICANX SEAK / PACKING COLUMING: Standard for

NET COST \$ 7534.00 each FOB factories, Mobile, Alac SHIPMENT: 4 weeks after complete information and approval to proceed.

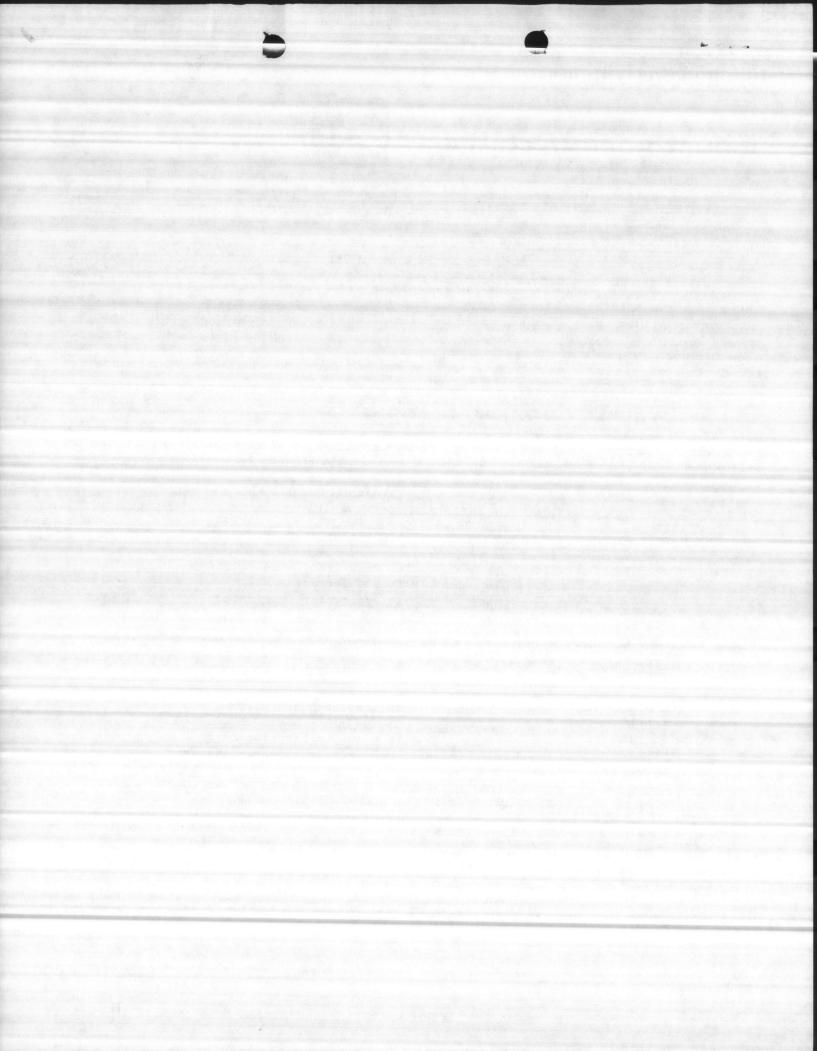
REMARKS: Pump will have 4" x 10' steel suction pipe with cone strainer all for well 7-7/8" I.D.

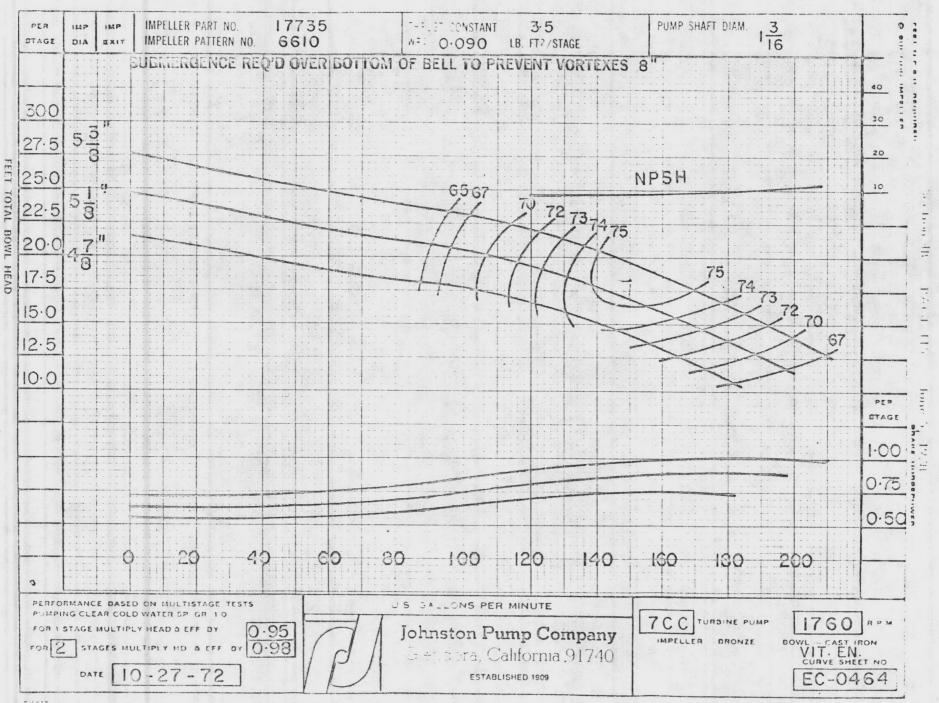
MEMBER



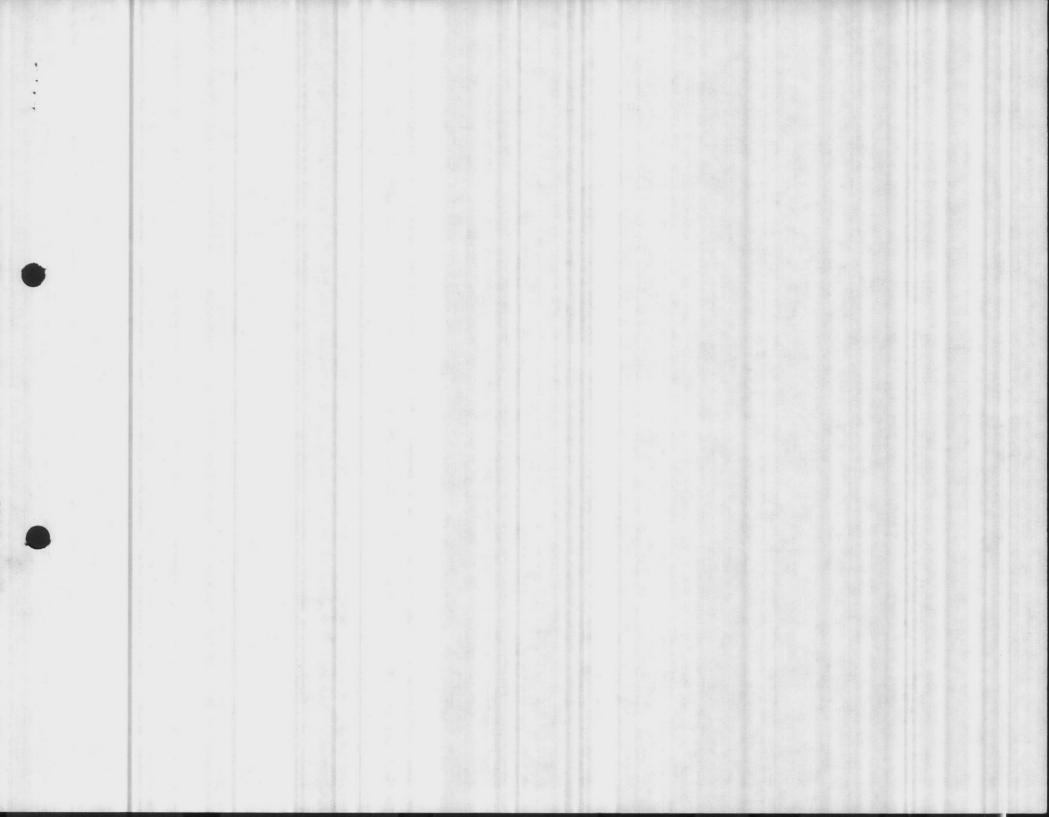
SIGNED: A. G. Se

THE GEORGE SEELKE COMPANY





P :017



(6-6-67) Pumping at 50# 1506 PA @ EL-23:0 BB-43 GUAGE STATIC PUMP, LEVEL LINE PRES. D.D. HEAD SHUT OFF. Gr.M. SEALEV. ELEV. AIR LINE 31 (+1:0) 83# +15" -15 45' -15 -15 -30' -14



TESTS	HADNO	MONTFORD	CAMP GEIGER	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE	RIFLE RANGE
PHENOLTHALEIN ALKALINITY	0	0					
METHYL ORANGE ALKALINITY	170	152					
CHLORIDES AS CL	40	44					
HARDNESS AS CaCO ₃	198	18		Cou	it Hou	seBAY	1
CHLORINE RESIDUAL		m				1	
IRON AS Fe	3.8	0.11					
CARBONATES AS CaCO3	0	0					
BICARBONATES AS CaCO3	170	152					
РН	7.15	8.0			an	alin en	2
ORTHO PHOSPHATE	2100	21°C				17	
META PHOSPHATE					11100	7/0	

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CHEMICAL ANALYSIS - WATER RAW Water Well # BB43 DATE MCBCL 11330/3 (REV 3-69) HADNOT MONTFORD CAMP TARAWA ONSLOW COURTHOUSE RIFLE TESTS POINT POINT TERRACE BEACH BAY RANGE GEIGER PHENOLTHALEIN ALKALINITY METHYL ORANGE ALKALINITY CHLORIDES AS CL HARDNESS AS CaCO3 166 CHLORINE RESIDUAL IRON AS Fe CARBONATES AS CaCO3 BICARBONATES AS CaCO3 PH **ORTHO PHOSPHATE** META PHOSPHATE

The state of the s

8843 2 statie 9/29/75 9'6" 62' depth

WATER ANALYSIS

			By N. H. 176		
Sample from 13611	5 N	130			
Total Solids	260	PPM	Dissolved Solids	2/	6 PPM
Suspended Solids			Volatile Solids_		PPM
Phenol. Alk. as CaCoz_	0	PPM	Silica as Sio2	40	PPM
Total Alk. " "			Ferrous Iron as	Fe 0	11
Carbonates " "			Total Iron as Fe	3.,	5- "
Bicarbonates " "			Aluminum as Al.	3.	8 "
Chlorides as Cl.			Calcium as Ca.	62.	0 "
Sulphates as SO4			Magnesium as Mg.	8.	9 "
Nitrites as No2	0		Sodium as Na.	2.1	11
Carbon Dioxide as CO2	7	"			
pH 7.3 Soap Hard	ness as	CaCO3		200	PPM
0dor 5/186+			Turbidity	30	
REMARKS					
and the state of t					

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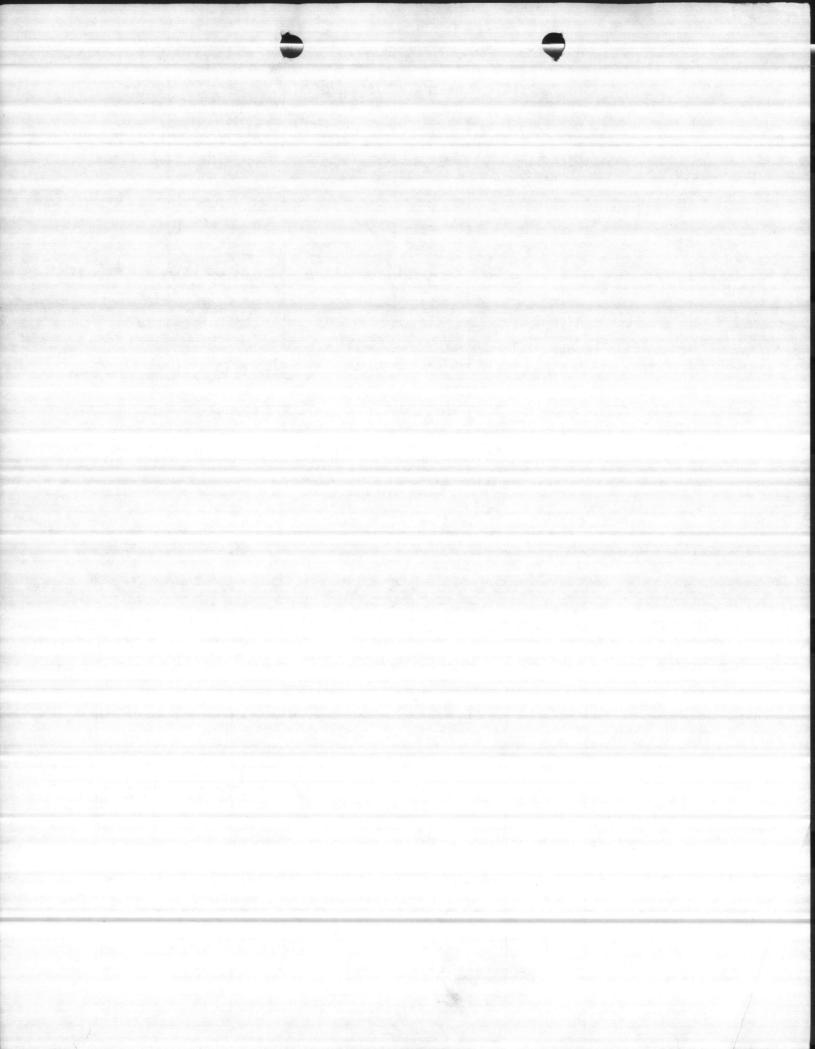
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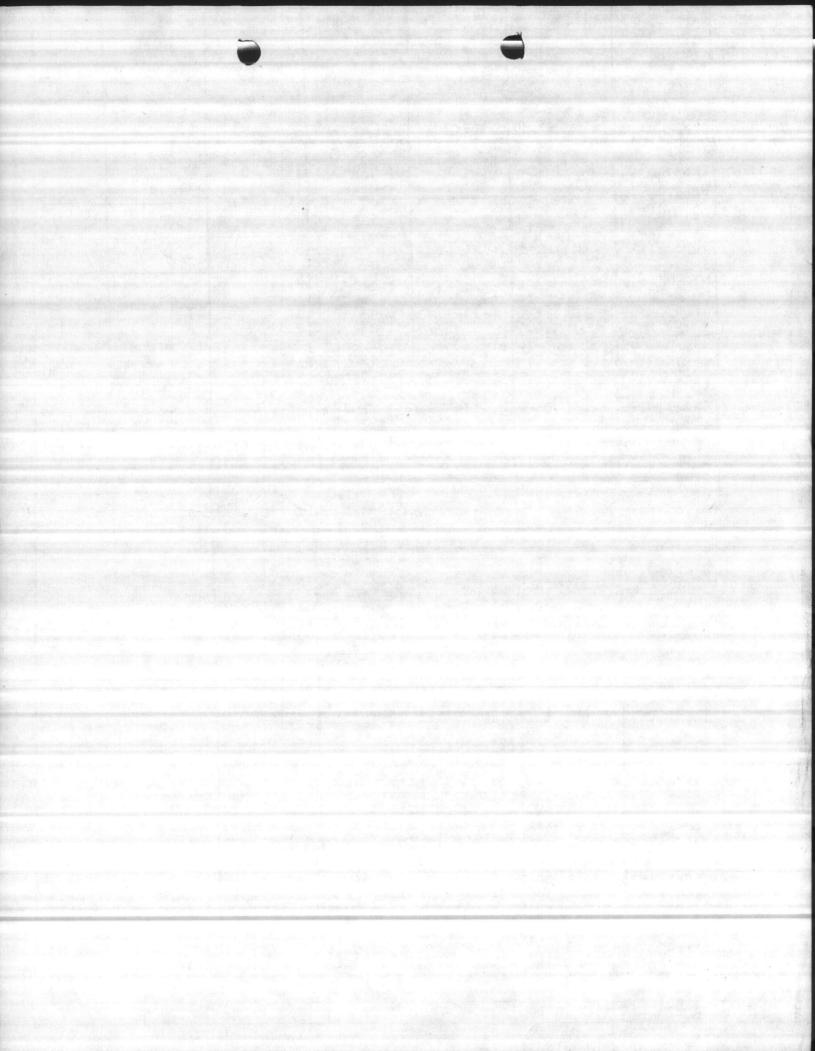
WELL NUMBER	BB 43	BY THOM	45 RI	4 YNOR	DATE 12-	5-83
AIR LINE	STATIC LEVEL	PUMPING LEVEL	DRAIN DOWN	DISCHARGE PRESSURE	GPM	START TIME 1300
40	13	21	8	25	100	1310
		23	10	22	115	1319
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REMARKS

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8-9-82	LENCTH OF	STATIC	PUMPING	DRAW	DISCRARGE	CAP. PER	TOVA	ALL STATES
DATE	ATR LINE	LEVEL.	LEVEL	DOWN	PRESSURE	DIAGAN.	TOTAL COLL	CP-MAIN TO
BB 43	40	And the second second second second		12	Goda	time		1. The state of th
	40	13	24	27'	24 151	100		
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				Marian Company				



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12,22,81	A STATE OF THE PARTY OF THE PAR							
DATE	LENGTH OF ATR LINE	STATIC LEVEL	PUMPING. LEVEL	DRAW DOWN	DISCHARGE PRESSURE	CAPA DEP	2140	0
	40	15'	20'	5'	2660	104	1410	
	o de la constante de la consta		21	6'	124 485	111	1428	
			22"	1 7'	22 2 135	119	1440	
			24"	9'	20 LBS	130	1452	
		1/				t-, :		
		1 M						
4 / 127 17 / 127 17 / 127		5 //					454	
			26'	11	15 LBS	164	1	
- 2 .	\mathbb{N}		29'	14'	10 4135	192		
			33'	18'	0 4139	221	-	
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ORIGINAL WELL CAPACITY

Static Water Level

G.P.M.

ORIGINAL WELL	TESTING					
Depth of Well 60	Depth after Cleaning	62.				
Pump Size	Test Pump Setting	50	7			
Pump Setting 45	Measured Static Water L	evel	131			

Depth of Air Line

CONDITION OF WELL - Gleaned sand and mack out of well. Fuch rust.

STATIC LEVEL ON GAUGE

Inches of water in dizometer tube	G.P.M.	30 Min.	45 Min.	60 Min.	l Hour
	-	PL	PI	PL	PL
	75	PL	PI	PI	PI 20
	115	PL	PI	PL	PL 99
	130	PL	PL	PL	PI 25
	345	PL	PL	PL	PL 26
	3.60	PL	PL	PI	PL
P P	260	PI	PL	PL	PL OR
		PI	PI	PL	PL
		PI	PI	PI	PL
		PL	PI	PL	PL
		PL	PT	PI	PI

1							
RECOVERY							
10	Sec.		10				
20		PL	18				
30		PL	39.5				
40		PL	12				
50		PL	10				
60		PL	36.6				
2	Min.	PL	16				
4		PL	1000				
8		PL	7/1 5				
16		PL	3/4				
32		PL	39.6				
-			SHOW THE PARTY				

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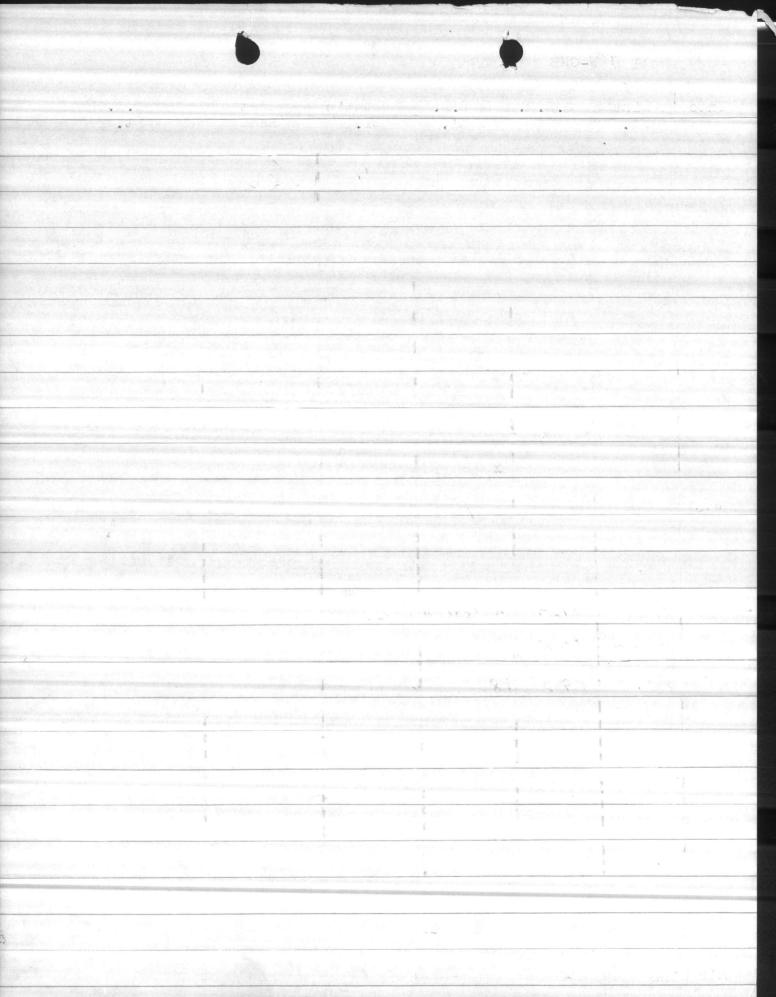
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43,

Well # W-CHB

Date	Line Ft.	G.P.M.	D.D. El. GAGER.	Static El.	Shut off Head	D.D. Ft.
6-2.53	92	12/5	5 AT	7,	/208	oggy var
1,	113	185	10 97			
"	138	157	14.5 FT.			
		, ,				
		n'	91.			
8,30,57			Grage			
					10 (100 m) (100 m) 10 (100 m) (100 m) 10 (100 m) (100 m) 10 (100 m) (100 m)	
7-20-62	55 LB	167	20 GAGEREA	DING .		
11	50 LB	175	19" " "			
1,	45' LB	192	18 " "			
1						

WHKNOWH, 45'-



Marine Barracks New River. N. C. April 5, 1942

Wells:

Permanent Water Supply at Balloon Barrage

By Layne Atlantic Company

Report on Well No. 2 in this Area

Location:

651 East of center line of Access Road to Balloon Barrage

at Station 13.40

Date Drilled:

March, 1942

Drilling Equipment: Rolary rig with bits and equipment

Status:

Ground elevation 13.1

A 172" hole drilled and then reamed to 23" in diameter to a depth of 21 feet. 20 feet of I. D. steel casing was set and the anular space around this was filled with cement grout to surface level. A 17" hole was then drilled inside this to a total depth of 61 feet.

Log of Formation: 0 to 1

Black top soil 1' to 20' Fine yellow sand

201 to 311

Blue clay

31' to 61'

Layers of sand and coquina rock

Remarks:

Due to the presence of sand between 31' to 61', it was necessary to construct a gravel wall well. On a test pumping, there was much sand in the discharge from the pump,

and the well begow to fill up.

Gravel Wall Construction:

30° of 8° steel pipe and 30° of 8° silician bronze shutter screen was lowered into the well and the anular space was pumped full of a special to cape may gravel.

Log of Screen Setting:

0 to 301 30' to 60'

Blank pipe Bronze screen

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The pipe was of thread joints and the screen was welded. The bottom of the screen was sealed with a cement plug.

Static Water Level: 6'2" below surface

Pumping:

Well pumps 170 gallons per minute with a 34' drawdown from static level after 26 hours pumping. This is approximately 5.3 gallons per foot of drawdown.

Further pumping test will be made after permanent pumps are installed.

Report will be made later of pump setting.

See separate report for chemical analysis.

N. H. Kellam Asst. Chem. Engineer Provide the transfer each two couldn't beautiful to the estimate out to the second of the second of

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WATER ANALYSIS

		By N. W Kellam Date 3-28-4	
Sample from Ballon	Back	1098 Well No.	2
Total Solids	PPM	Dissolved Solids	PPM
Suspended Solids	PPM	Volatile Solids	PPM
Phenol. Alk. as CaCoz	O PPM	Silica as Sio2	PPM
Total Alk. " " /		Ferrous Iron as Fe	
Carbonates " "		Total Iron as Fe	- 11
Bicarbonates " " 16		Aluminum as Al.	n n
Chlorides as Cl. 2		Calcium as Ca.	11
Sulphates as SO ₄		Magnesium as Mg.	n e
Nitrites as No2		Sodium as Na.	11
Carbon Dioxide as CO2			
pH_26 Soap Hardness	as CaCO ₃		PPM
Odor 5/19/1		Turbidity Brown Co.	ler
REMARKS			*
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BIRNANA NUTAN --

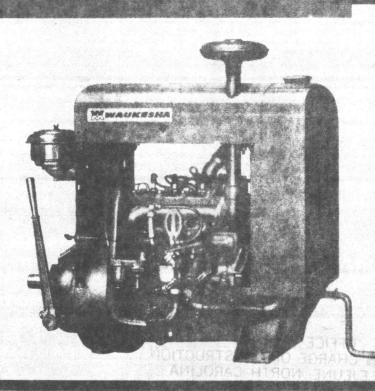
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Waukesha power units

series ICKU



Typical MODEL ICKU

Begins — Indine 1, Lineau, Acycle gasoline. Lettus calindes best. Removable aloy iron cylinder block and cylinders precision hasset. Alley iron salve guides. Alley steel intake and exhaust valve, alley extensit valve sen inserts. Carrellyse valve, illustrational, bloomy section contour ground structurum alley pistems and feating pister pins. Forget, steel connecting out, explaceable precision upe bearings and sent bin bushings. Alloy from pravileges with tipe section to support sent and tear single row radial main bearings, reged steel cranishaft with precision ground cranispin journels. Dynamically explaneed, Combination updraft intake and achieves analiging with front verload exhaust callest support type of pan.

Air Cleanor - Oil bath type.

Souther Spaces — Redictor, far, gear Oriven con-tiffugal water pump, 170 f. thermostat, by-pass

Creak - Hand starting

Enclosure — Protective sheet steel hood, rear pariel, side doors.

Engine Rotation — Counterclockwise when facing

Elywheet and Ring Gear — Flywheet machined for TD single plate 7" clutch.

Flywheel Housing - SAE No. 5 foot type.

Front Support

Puel System - Carburetor, gasoline %" updraft. Mechanical fuet pump.

Covernor - Built-in contrifugal type, lubricated from engine offing system.

Ignition System — Distributor, drive, coil and cables. One spark plug per cylinder.

Instruments - Mounted in rear panel, including emmeter, Ignition switch, oil pressure and water temperature gauges, throttle control.

Intrication - Full pressure gear type oil pump. External adjustable relief valve for pressure control. Oil fifter, by-pass type.

Muffler and Exhaust Pipe

Starting -- 12 volt electric starter, 32 amp alternator, starting switch.

OPTIONAL ATTACHMENTS (Available as original equipment when

Air Cleaner -- Oil bath with pre-cleaner.

Controls -- Variable spend governor, high water temperature and low oil pressure cut-off switches. Waukeshe Engometic Control System.

Cooling System - Heat exchanger.

Electrical - 12 volt, 42 amp atternator.

Filters - Sweet or sour natural gas, sewage gas, not mounted.

Fuel System - Cerbaretor, combination gas-gaseline %" updraft with gas pressure test gauge Carburetor, natural gas or LPG %" updraft with gas pressure test gauge. LPG vaporizer.

Fuel Tank

Ignition System - High tension magneto, transistorized ignition, poil and cables. One spark plug per cylinder

instruments - Electric hour meter, electric or mechanical tachometer.

Power Take-Off -- Standard, stub shaft for direct

OFFICE OF THE
OFFICER IN CHARGE OF CONSTRUCTION
CAMP LEJEUNE, NORTH CAROLINA

APPROVED

SUBJECT TO CONTRACT REQUIREMENTS

CONTRACT NBy 88313 SPEC. NO. 88313 /6 7

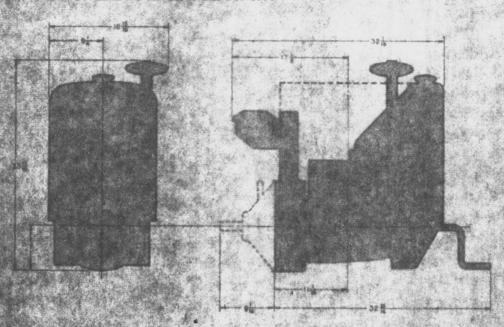
DATE: 3 July 1968

J. W. UPDEGROVE CAPT. CEC, USN Officer in Charge of Construction

PRINCIPAL ENGINE DAYA	
Model 4. L. Sant	ICKU
Dore and Stroke	
Number of Cylinders	
Olsplacement, cu. In.	61
Number of Main Bearings	J
Olling System, capacity, quarts	A STATE OF THE STA
Engine not including lines and filters	y

	The state of	
Cooling System, capacity, quarts		題
Engine without radiator	135	
Engine and radiator	. 8	
Weight, unit without radiator (approx. lbs.)	265	
Weight, unit with radiator, sheef steel housing and side		
deors (approx. lbs.)	330	

SCHEMATIC COMPOSITE DIAGRAM



COMPONENTS AND AGGESSORY LOCATIONS AND DIMENSIONS UNCHASH MAY VARY WITH SERVICE AND INSTRELATION REQUIREMENTS DIMENSIONS BUT SUBMANTEED. DETAILED PRINT EVAILABLE FOR LAYOUT WORK.

MODEL	TORQUE	81	100 1000				Struct Housel Giren				AT SPEEDS INDI		CATED 2000		2200		2496		
GASOLIN Without	E Accessories	M	C	М	C	М	C	M	c	М	c	M	C	М	. c	M	c	М	G
ICKU	41-1800	6	5	7	5	9	7	18	8	12	9	14	11	15	11	16	12	17	1.7
GASGLIN With Acc																			
ICKU	38-1400	5	4	7	5	8	6	10	8	11	8	13	10	14	11	15	11	16	12
NATURAL Without	GAS Accessories												1			1.3	100		3.5
ICKU	36-1600	5	4	8	5	8	6	9	7	11	8	12	9	14	11	15	11	16	. 12
NATURAL With Acc																			Y. 7:
ICKU	33-1600	5	4	6	5	7	5	8	7	10	8	11	8	13	10	14	11	15	1
LP GAS Without	Accessories																		
ICKU	41-1800	8	5	7	5	9	7	18	8	12	9	14	11	15	11	16	12	17	13
LP GAS With Acc	esseries																		
ICKU	38-1400	5	4	7	5	8	6	10	8	11	8	13	10	14	11	15	11	16	12

Performance Curve Supplied on Request.

RATING STANDARDS

MAXIMUM RATING: Maximum HP output of engine which can be demonstrated within 5% at the factory under standard conditions. Engine should not be applied at this rating without prior approval of Waukesha Motor Company, Engineering Division.

INTERMITTENT RATING: 90% of Maximum Rating. The HP and speed which can be applied under speedic conditions of varying load and/or speed. This rating is used for standby standby-continuous, and peaking applications. Some users prefer to operate for long periods in this higher HP range with full knowledge that this may result in higher maintenance.

CONTINUOUS RATINGS: The HP and speed which can be applied without reduction

SPECIAL RAYINGS: All published ratings of the Waukesha Motor Company are a general guide for a broad range of applications. Other ratings based on specific load applications and economic requirements are available upon receipt at the factory of detailed information.

Ratings are corrected to sea level barometric pressure of $29.92^{\prime\prime}$ hg. and standard temperature of 60 F.

DEDUCTIONS FOR ALTITUDE AND

RATING							
M axinous	intermittent	Centinuous					
14 for each 1000	PS for each 1000' source 1000 aftitude	3% for each 1000' above 2000' attitude					

The manufacturer reserves the right to change of modify, without notice, the design, equipment specifications of ratings as herein set tortis without incurring any obligation either with respect to engines previously sold or in the process of construction except where otherwise specifically guaranteed by the manufacturer.



APPROVED

SUBJECT TO CONTRACT REQUIREMENTS CONTRACT NBy 283/3 SPEC. NO. 883/3 /67 DATE: 3 July 1948 J. W. UPDEGROVE (1)
CAPT. CEC, USN
Officer in Charge
of Construction of Construction



WAUKESHA MOTOR COMPANY

WAUKESHA, WISCONSIN

QUOTATION

HUNTINGTON PARK OFFICE

HUNTINGTON PARK, CALIF. 90258 TELEPHONE (213) 588-6231

P. O. Box 2146

To:

Johnston Pump Company 1775 East Allen Avenue Glendora, California 91740 Date: June 12, 1968 Quotation No.: 105-C Ref: Your Inquiry:

Attention: Mr. G. W. Shaughnessy

Subject: Model ICKU Gasoline Power Unit

Gentlemen:

We are pleased to confirm our June 7, 1968 telephone conversation, during which time we quoted the following:

Model ICKU Gasoline Power Unit, 200 bore x 3-1/80 stroke, four-cylinder, 61 cubic inch displacement, as generally described in bulletin No. 4887.

Power Unit Specifications include:

Air Filter - Oil bath type

Base - Foot type

Carburetor - Gasoline

Cooling - Radiator cooling with water pump, fan and thermostat

Cylinder Heads - Gasoline

Front Support

Flywheel & Housing - No. 5 SAE foot type. Ring gear

Fuel Supply Pump - Open units

Gasoline Tank - Enclosed units

Filter - Lubr. oil

Governor

Ignition - Fixed spark magneto with automatic impulse coupling,

cables, spark plugs & ignition switch

Manifold - Combination with updraft intake and front vertical exhaust
Muffler
Oil Pan - Automotive type
Oil Pressure Gauge
Starting Crank
Throttle Control - Friction type
Water Temperature Gauge

Also Included are:

Clutch power takeoff assembly
Safety switches
Tachometer
Variable speed governor
12-Volt electric starting system, including 32-amp/ alternator
and storage batteries.

F.O.B. Point: See page 2

Delivery: See page 2 days from receipt of order and complete specifications.

Hobert E. Caltrider

APPROVED

SUBJECT TO CONTRACT REQUIREMENTS

CONTRACT NBy 883/3 SPEC. NO. 883/3 /67

DATE: 3 July 1968

J. W. UPDEGROVE CAPT. CEC, USN Officer in Charge of Construction

M

JOHNSTON VERTICAL TURBINE, PUMP GEAR DRIVE SURFACE DISCHARGE VERTICAL HOLLOW SHAFT MOTOR FRAME # CYCLES PHASE 208 VOLTS 1760 R.P.M. ENCLOSURE 4- 5/8" HOLES DRIPPROD ON 15 7 AB. C. VERTICAL HOLLOW SHAFT RIGHT ANGLE GEAR COMBINATION DRIVE JOHNSON KEYWAY 1/4 x 1/8 MODEL HAIS PUMP R.P.M. 1760 1/8 DIA. SHAFT ROTATION SPEED RATIO 355 4 × 125# DISCHARGE FLANGE TYPE "A" IOX4 DISCHARGE HEAD 3/4 NPT DRAIN 4x2 x 13/14 COLUMN ASSEMBLY 4 STAGE 766 BOWL ASSEMBLY 31/8 40-0 CONDITIONS: 175 USGPM 63 FT. TOTAL HEAD LIQUID WATER SPEC. GRAV. @ F PUMPING TEMP. 53'01 54 04" 3:05 CONE STRAINER 4 SUCTION PIPE 10.0 CUSTOMER PO# DEALER HARTS FIELD WATER PO# 1-0" JOHNSTON SERIAL # JOHNSTON QUOTATION # A 417 NOTE: DO NOT USE FOR CONSTRUCTION UNLESS CERTIFIED WELL NO 43 IOHNSTON PUMP COMPANY

PASADENA, CALIFORNIA

H-1023-A

APPROVED

SUBJECT TO CONTRACT REQUIREMENTS

CONTRACT NBy 86313 SPEC. NO. 88313 67

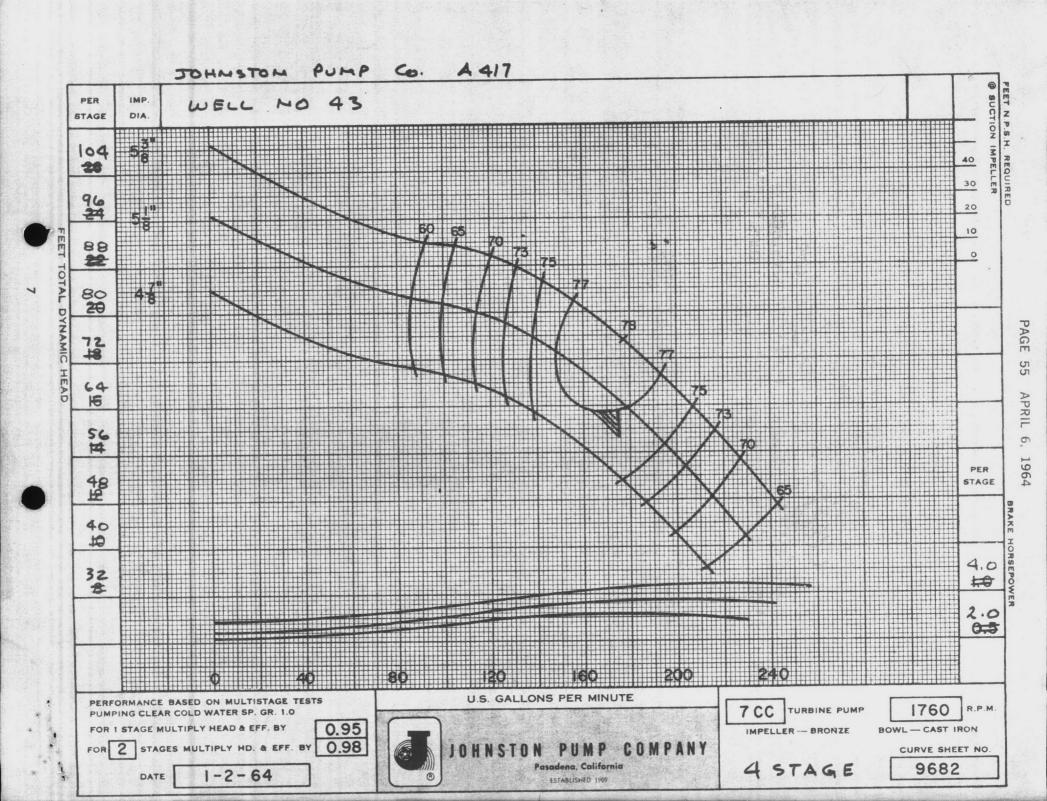
DATE: 3 July 1968

J. W. UPDEGROVE

CAPT. CEC, USN

Officer in Charge

of Construction



APPROVE

SUBJECT TO CONTRACT REQUIREMENTS

CONTRACT NBy 803/3 SPEC NO. 883/3 / 67

DATE: 3 July 1968

J. W. UPDEGROVE CAPT. CEC, USN Officer in Charge of Construction



(PW Department see Instructions in NAVFAC MO-321)

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Director, Utilit	des Distant			2. REQUEST NO.	
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Director, Operat	ions Division			3 July	1973
5. REQUEST FOR			Total Control of the	5a. REQUEST WO	
COST ESTIM	MATE [PERFORMANCE OF WORK			(APTICUE)
6. FOR FURTHER INFORMATION CALL				7. SKETCH/PLAN	TATTACHED
W. R. Price, Ph.	3510			YES	□ NO
8. DESCRIPTION OF WORK AND JUSTI	IFICATION (Including location,	type, size, quantity, etc.)			
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IF ESTIMATE IS DESIRED BEFORE WORK IS STARTED

Requestor fills in all items in Part I, checks "Cost Estimate" in item 5, attaches sketch or plan if necessary, and checks proper block in item 7. Requestor retains last copy and forwards balance to Public Works Department.

If the Work Request is approved, the original and first copy will be returned to the requestor with Part II completed. If the requestor desires the work to proceed in accordance with the estimate provided, he should fill in Part III; checking proper block in item 19 and attaching the document citing the funds to be used. If the requestor decides not to authorize the work, the appropriate box in item 20 should be checked. The original form, in either case, is returned to the Public Works Department.

If the Work Request is disapproved, the reasons for disapproval will be stated in Part IV, signed by the Public Works Officer, and the original and one copy returned to the requestor.

IF ESTIMATE IS NOT DESIRED BEFORE WORK IS STARTED AND FUNDS ARE NOT UNDER COGNIZANCE OF PWO

Requestor fills in all items in Parts I and III except item 20, checks "Performance of Work" in item 5, attaches sketch or plan if necessary, checks proper block in item 7, checks proper block in item 19, and attaches document citing the funds to be used. Requestor retains last copy and forwards balance to Public Works Department.

If the Work Request is approved, the first copy will be returned to the requester with items 11, 12, 15, 16, and 17 of Part II completed.

If the Work Request is disapproved, the reasons for disapproval will be stated in Part IV, signed by the Public Works Officer, and the original and one copy returned to requestor.

IF ESTIMATE IS NOT DESIRED BEFORE WORK IS STARTED AND FUNDS ARE UNDER COGNIZANCE OF PWO

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If the Work Request is approved, the first copy will be returned to the requestor with items 11, 12, 15 as applicable, 16 and 17 of Part II completed.

If the Work Request is disapproved, the reasons for disapproval will be stated in Part IV, signed by the Public Works Officer, and the original and one copy returned to requestor.

PART IV-REMARKS

WORK REQUEST (MAINTENANCE MANAGEMENT) NAVFAC 9-11014/20 (REV. 2-68) S/N-0105-002-7510 Supersedes NAVDOCKS 2351



(PW Department see Instructions in NAVFAC MO-321)

S. BEQUEST FOR COST ESTIMATE FOR PRIFICE INFORMATION CALL N. R. Price, Pr. 3510 DESCRIPTION OF WORK AND AUSTRICATION (Including location, type, size, quantity, etc.) 1. Pull and make necessary repair to Deep sell pump. Bldg. BB-43. FARCE CHARGEARE 10. SCHATURE (Requesting, Official) BB-43. FART III—COST ESTIMATE [Filled out by Mointenance Control Division if estimate requested] 1. Labor 1. Labor 1		A Section of the sect	Requestor see Instructions on Reverse Side	
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INSTRUCTIONS

IF ESTIMATE IS DESIRED BEFORE WORK IS STARTED

Requestor fills in all items in Part I, checks "Cost Estimate" in item 5, attaches sketch or plan if necessary, and checks proper block in item 7. Requestor retains last copy and forwards balance to Public Works Department.

If the Work Request is approved, the original and first copy will be returned to the requestor with Part II completed. If the requestor desires the work to proceed in accordance with the estimate provided, he should fill in Part III, checking proper block in item 19 and attaching the document citing the funds to be used. If the requestor decides not to authorize the work, the appropriate box in item 20 should be checked. The original form, in either case, is returned to the Public Works Department.

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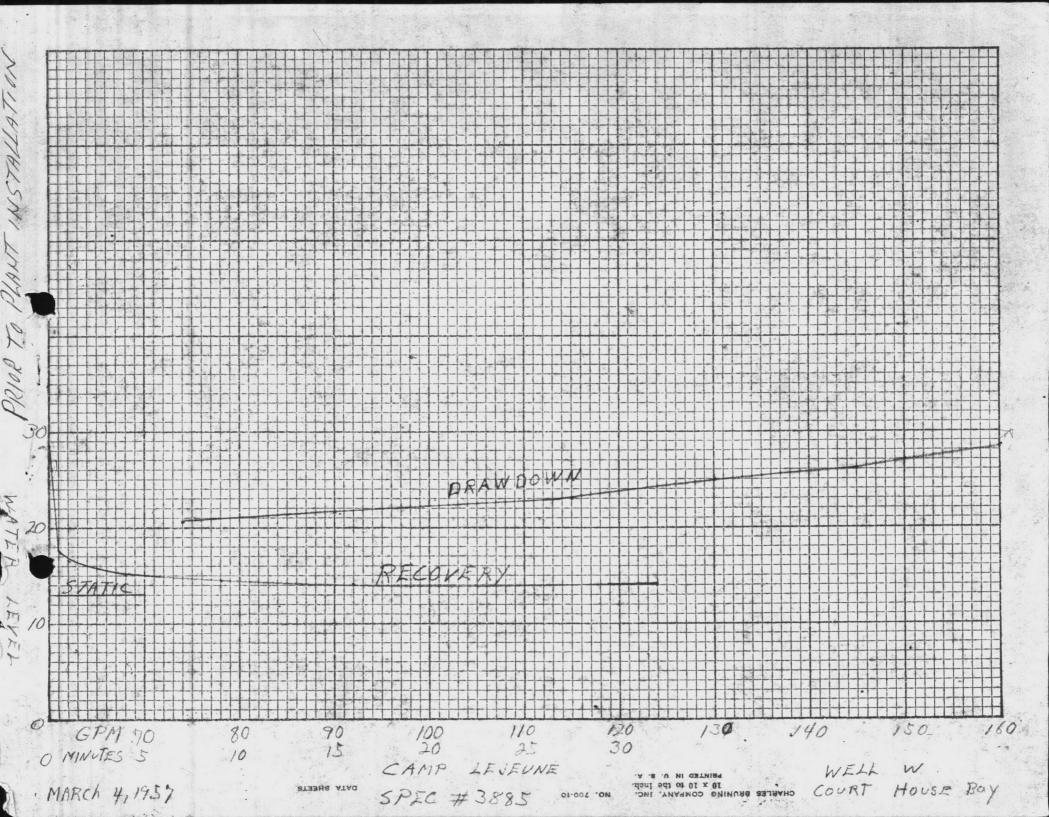
IF ESTIMATE IS NOT DESIRED BEFORE WORK IS STARTED AND FUNDS ARE UNDER COGNIZANCE OF PWO

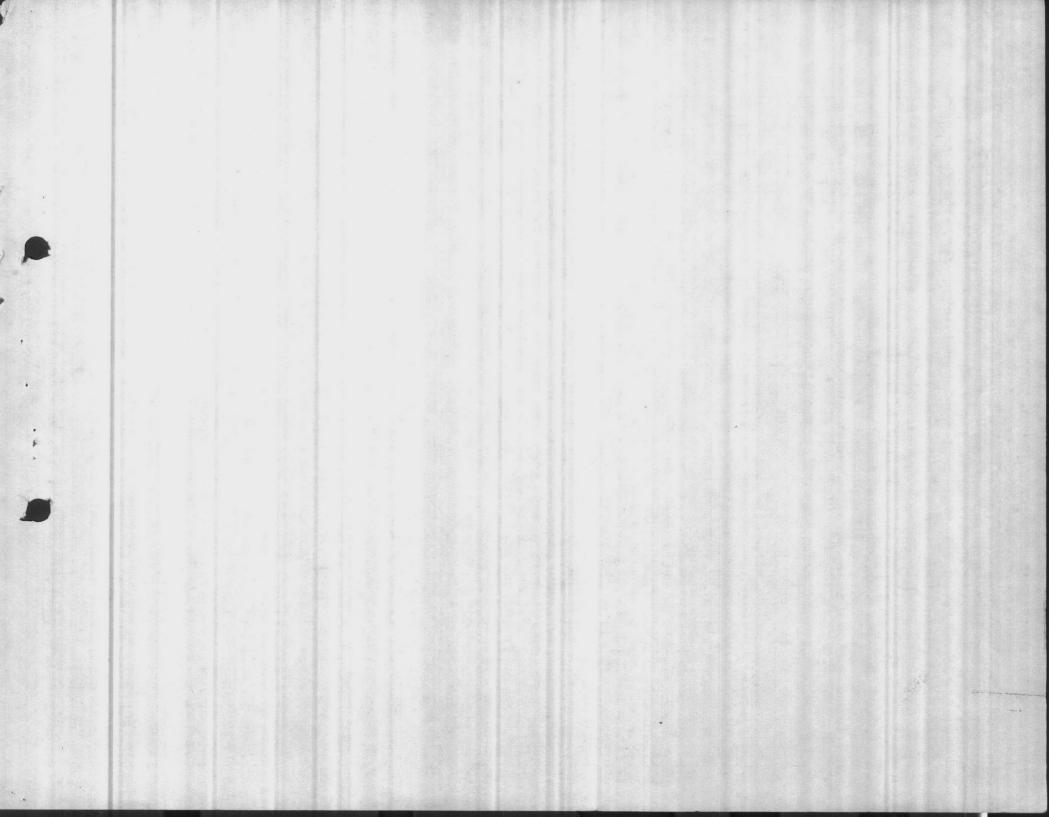
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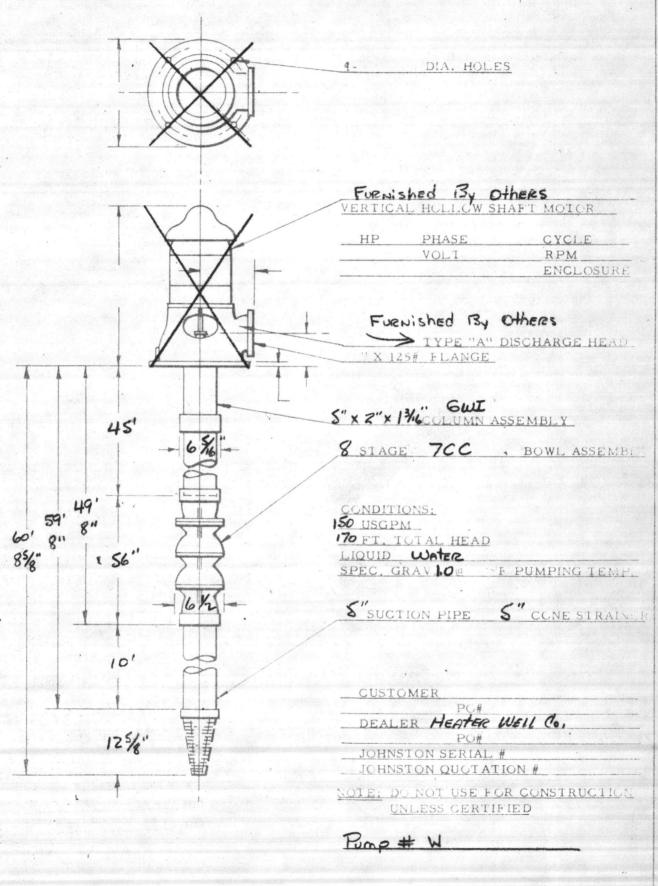
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PART IV-REMARKS





JOHNSTON VERTICAL TURBINE PUMP



JOHNSTON PUMP COMPANY PASADENA, CALIFORNIA

PUBLIC WORKS DEPARTMENT CAMP LEJEUNE, NORTH CAROLINA

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CALIFORNIA

USA

DATE: 3-21-5707: JOM

PASADENA

CURVE SHEET No.

PUBLIC WORKS DEPARIMEN! CAMP LEJEUNE, NORTH CAROLINA

SUBJECT TO CONTRACT REQUIREMENTS

SATRACT NOY

SPEC. NO

SPEC. NO

BY DIRECTION OF OFFICER
IN CHARGE OF CONSTRUCTION

For Engine-Generator, Well Pump, and Similar Installations

BATTERY LIFE AND START RELIABILITY:

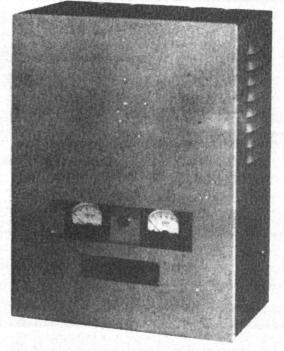
Fully charged storage batteries experience self-discharge without any load on them. This can be offset by a continuous low rate trickle charge but a continuous such low rate without periodic high charge rate, softens the battery plates, thereby shortening battery life with reduced start reliability.

AUTOMATIC TWO RATE CHARGING:

Both types of charging are provided automatically in the Lester Automatic Two Rate Chargers which go on high rate automatically after each engine start or start attempt. An inversely temperature compensated relay cuts the charger back to low rate when the batteries are approximately 90% charged. The low rate is adjustable 0-1 amp to provide a completion of charge and maintenance at a low current which will not boil the battery electrolyte. The 0-1 amp adjustment range permits a setting to offset steady drain by DC monitoring circuits.

HIGH RATE RESET AUTOMATIC ENGINE CONTROLLERS:

Charger models with designations ending with an R suffix switch to high rate automatically only after each engine start or start attempt. Hence they are fully automatic only when used with automatic engine controllers which exercise the engine at least once a week. These models are equally effective in



installations which are exercised by manual control regularly once a week. A momentary push button on the charger control panel permits resetting to high rate whenever desired.

AUTOMATIC TIMER RECYCLE TO HIGH RATE:

Installations which are not assured of engine exercise at least once a week by automatic controller or by manual supervision require chargers with a 12 hour timer. These models, designated by an RC suffix, recycle automatically to high rate every 12 hours and are cut back to low rate by the inversely temperature compensated relay.

All Lester Automatic Two Rate Chargers shut off automatically while engine starter is energized and recycle to high rate after each engine start attempt.

STANDARD EQUIPMENT: The chargers are supplied with line voltage compensating taps covering line voltages 105-125 volts AC, a DC ammeter, "ON-OFF" switch, high rate reset button, DC fuse, and High rate indicator light. A DC voltmeter can be supplied at extra cost.

Specify which battery polarity goes thru engine starter solenoid.

Specify full charge specific gravity of batteries: either 1220 long life industrial types or 1270 automotive types.

APPROVED

SUBJECT TO CONTRACT REQUIREMENTS CONTRACT. NBy 883/3 SPEC. NO. 883/3/67

J. W. UPDEGROVE CAPT. CEC, USN

Officer in Charge of Construction

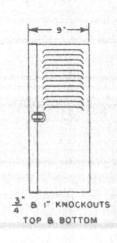
32000

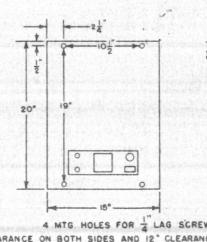
INSTALLATION:

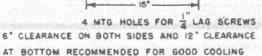
- 1. Install charger and batteries in same room so that they are in air of the same temperature.
- 2. Mount charger by four 1/4" lag screws thru back of housing.
- 3. Bring in 115 volts AC 60 cycles single phase supply lines thru conduit, according to local code, thru knockouts at top or bottom of cabinet.
- 4. Use 12 gauge type TW leads from BAT terminals in charger direct to battery terminals, making sure that polarity is not reversed. Length of these leads should not exceed 12 feet. Connect "START" terminal to cold side of starter solenoid.

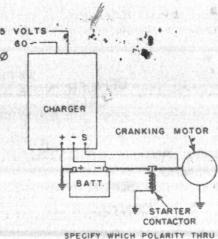
		6 VOLT A	MODELS	
6	Amps	WITHOUT TIMER 6T6R	WITH TIMER 6T6RC	WEIGHT 37 lbs.
	Amps	6T10R	6T10RC	39 lbs.
		12 VOLT	MODELS	
6	Amps	12 T6R	12T6RC	41 lbs.
10	Amps	12T10R	12T10RC	43 lbs.
		24 VOLT /	MODELS	
6	Amps	24T6R	24T6RC	46 lbs.
10	Amps	24T10R	24T10RC	48 lbs.
		32 VOLT /	MODELS	
6	Amps	32T6R	32T6RC	47 lbs.
10	Amps	32T10R	32T10RC	50 lbs.

12 & 24 VOLT MODELS U.L. LISTED









STARTER CONTACTOR DESIRED



Telephone: Richmond 9-2073

APPROVED

SUBJECT TO CONTRACT REQUIREMENTS

CONTRACT NBy 88313 SPEC. NO. 88313 /67

DATE: 3 July 1968

J. W. UPDEGROVE

CAPT. CEC, USN Officer in Charge

of Construction

- Install charger and batteries in same room so that they are in air of the same temperature.
- After charger is mounted, bring in the supply lines via conduit according to local code thru knockout nearest the AC terminal strip at top to the 2 leftmost terminals.
- 3. Run 12 gauge type TW leads from DC output (BAT) terminal strip to battery terminals, making sure that polarity is not reversed. Length of these leads should not exceed 12 feet. Be sure to connect "START" terminal of battery terminal board to the side of the engine starter Solenoid which has voltage on it only when starter is energized.
- 4. Set charger switch to "ON" and note charge rate shown on ammeter. Rate will vary with state of battery charge, AC supply voltage, and tap setting on AC input terminal strip.
- 5. Tap is set for 115 volts AC when charger is shipped from factory. Move coiled lead on AC input terminal strip toward "HIGH" to increase charge rate, thus compensating for low supply voltage and vice versa. When battery specific gravity is 1120, proper tap setting will produce maximum charge rate shown on charger nameplate. Never exceed this current.
- 6. This is automatic two rate charger. The plastic enclosed relay is an inverse-temperature compensated voltage relay (TVR) which switches the charger to low rate when batteries are approximately 85%charged. Since it will not operate in the low to high direction at normal battery voltages, a push button is supplied for manual reset to high rate.
- 7. All models recycle to high rate automatically whenever the engine starter is energized by either manual control or automatic engine controller.
- 8. If the charger model number ends with a "C", it has an electric timer which resets the charger to high rate automatically every 12 hours and after every start or start attempt.
- The resistor on the chassis should be adjusted to the final steady state voltage under trickle charge recommended by the battery manufacturer.
- 10. If the batteries require water more than once a month, either resistor is set for too high low rate or TVR is cutting off high rate too late, or it is a combination

- of both conditions.
- 11. If batteries never come up to desired specific gravity, resistor is set for too low trickle rate or TVR cuts back too early.
- 12. To check the operating voltage of the TVR, connect a 1% accuracy DC voltmeter to the battery terminals at the batteries and note voltage when TVR shifts charger to low rate.
- 13. For desired shut-off voltage, multiply number of lead-acid cells by the volts per cell shown opposite actual air temperature.

35 deg F -2.51 80 deg F -2.35 40 deg F -2.50 90 deg F -2.31 50 deg F -2.46 100 deg F -2.27 60 deg F -2.43

70 deg F -2.40

Above figures are for heavy duty automotive type batteries with 1260 full charge specific gravity. For long life industrial batteries with 1220 specific gravity, deduct .05 from above voltages per cell. For other types consult battery manufacturer.

14. To adjust the TVR, remove plastic cover. Use pencil point to move adjusting screw and nut on end of coil spring away from moulded support, stretching spring as little as possible. Without turning adjusting screw carefully turn nut 1/6th turn at a time and release so that flats of nut reseat in moulded support. Turning nut clockwise to increase tension raises the operating voltage and vice versa. Cover must be in place when checking operating voltage.

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Lester Equipment Mfg. Co. Inc.

LOS ANGELES 15, CALIF.

SCALE	APPROVED BY	DRAWN BY
DATE 6-11-63		REVISED
	S FOR TVR TWO RATE	DRAWING NUMBER

APPROVED

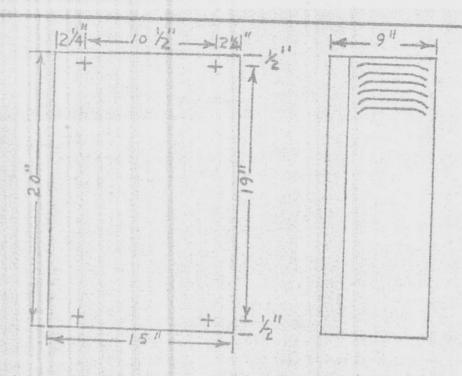
SUBJECT TO CONTRACT REQUIREMENTS

CONTRACT NBy 88313 SPEC. NO. 88313/67

DATE: 3 July 1968

J. W. UPDEGROVE

Officer in Charge
of Construction



h mtg. holes for 1" lag screws

3/4" & 1" knockouts top and bottom

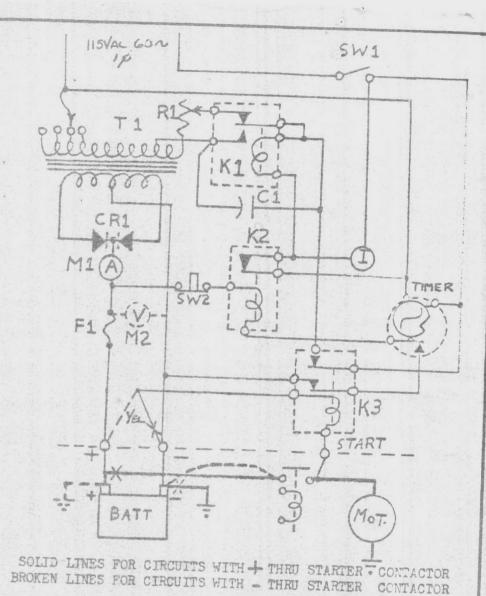
6" clearance on both sides and 12" clearance at bottom recommended for good cooling.

For starter circuits with negative (-) thru starter contactor, solid lines are broken at X

"Start" terminal of charger must be connected to contactor teredual which has voltage only while starter is energized.

THIS DRAWING AFPLIES TO MODELS 6TERC, 6TIORC, 12TERC & 12TIORC

CHARGER BATT TERMINAL STRIP. CHANGE IF NECESSARY



DURING INSTALLATION CHECK POSITION OF YELLOW WIRE ON

Lester Equipment Mfg. Co. Inc. LOS ANGELES 15, CALIF

APPROVED BY SCALE None DRAWN BY DATE 9/2/57 REVISED 11/14/60 AUTOMATIC TWO RATE BATTERY CHARGER DRAWING NUMBER 6 & 12T()RC SERIES 1275C

CERTIFIED CORRECT:

APPROVED

SUBJECT TO CONTRACT REQUIREMENTS

CONTRACT NBy 883/3 SPEC. NO 883/3 /67

DATE: 3 July 1968.

J. W. UPDECROVE J. M. CAPT. CEC, USN

Officer in Charge