

FILE FOLDER

DESCRIPTION ON TAB:

TC 201

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**

ABANDONED
wells

Division of Environmental Management

WELL ABANDONMENT
RECORD

Groundwater Section
P.O. Box 27687
Raleigh, N.C. 27611

CONTRACTOR Cyclone Well Drilling

REG. NO. 2395

1. WELL LOCATION: (Show a sketch of the location on back of form.)

Nearest Town: Camp Geiger County Onslow
North Carolina Quadrangle No. _____
(Road, Community, Subdivision, Lot No.)

2. OWNER: U.S. Marine Corps

3. ADDRESS: Camp Geiger, NC

4. TOPOGRAPHY: draw, slope, hilltop, valley, flat

5. USE OF WELL: public DATE: 1/11/01

6. TOTAL DEPTH: 120' DIAMETER: 10"

7. CASING REMOVED:

<u>feet</u>	<u>diameter</u>
_____	_____
_____	_____

8. SEALING MATERIAL:

<u>Neat cement</u>	<u>Sand cement</u>
bags of cement <u>100cc</u> <u>428</u>	bags of cement _____
gals. of water <u>428</u>	yds. of sand _____
	gals. of water _____

Other
Type material _____
Amount _____

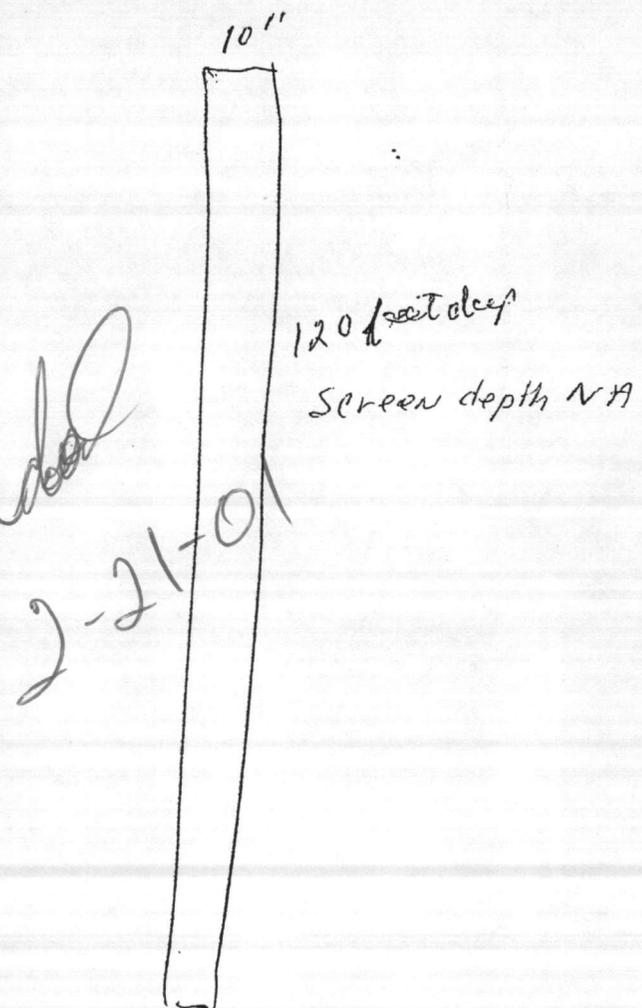
9. EXPLAIN METHOD OF EMPLACEMENT OF MATERIAL.

pump

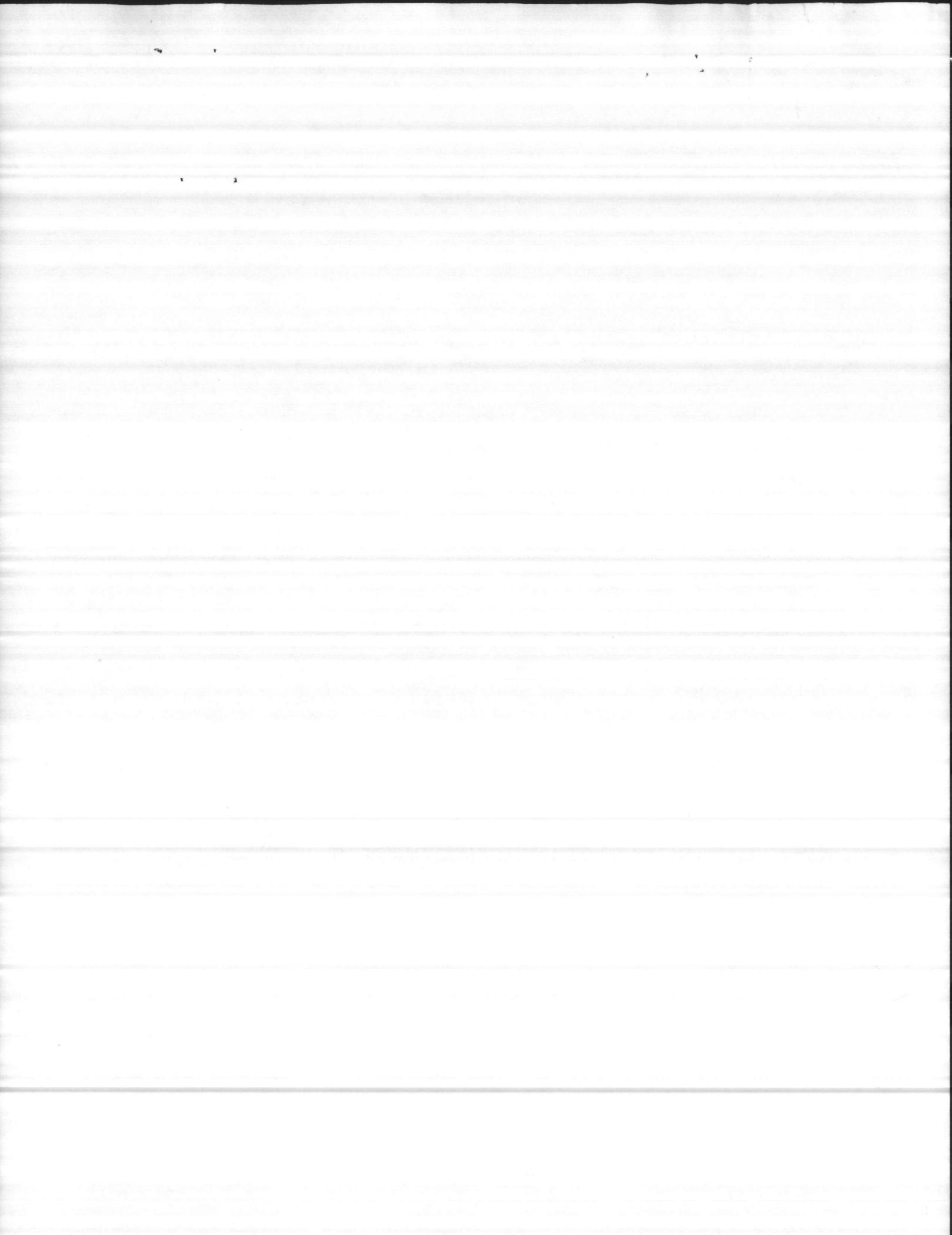
I do hereby certify that this well
abandonment record is true and exact.

David S. Quinn 1/11/01
Signature of Contractor or Agent Date

WELL DIAGRAM: Draw a detailed sketch of the well showing total depth, depth and diameter of screens remaining in the well, gravel interval, intervals of casing perforations, and depths and types of fill materials used.



Give the well owner a copy of this record.



USC & GS ELEV
 AIR TAP = 32.7
 FIN. FLOOR = 31.0
 ORIGINAL GROUND = 30.1
 ⊕ = USC & GS 30.1

GROUND LEVEL = 0

WELL H
 MARINE CORPS BASE
 CAMP LEJEUNE, N.C.

40'

STAINLESS STEEL SCREENS

NEAT CEMENT

18" STEEL CASING

CENTERING GUIDES

1/4" W.I. AIR LINE

55'

SCREEN

60'

8" W.I. CASING & SCREEN

77'

SCREEN

82'

88'

SCREEN

Date Tested	9/11/59
Production	150 GPM
Drawdown	40'
Static Level	8'
Pumping Level	48'

93'

DIAGRAM NOT DRAWN
 TO SCALE. ALL DEPTHS
 REFERRED TO ARE
 FROM GROUND LEVEL
 ASSUMED AS 0.

108'

SCREEN

113'

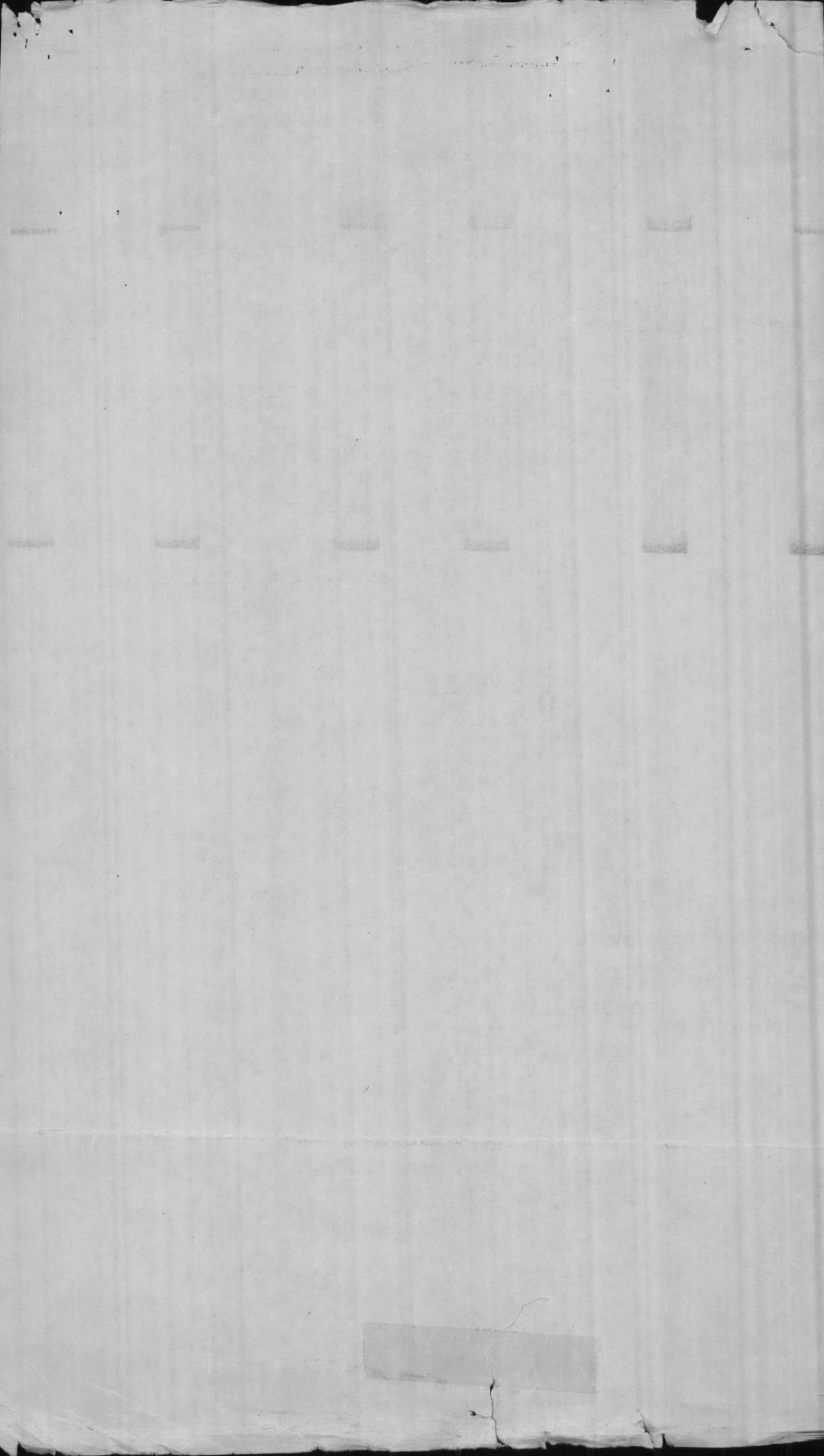
CENTERING GUIDES

130'

SCREEN

135'

140'



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 AIR TAP = 32.7
 FIN. FLOOR = 31.0
 ORIGINAL GROUND = 30.1

GROUND LEVEL = 0

⊕ = USC & GS 30.1

WELL H
 MARINE CORPS BASE
 CAMP LEJEUNE, N.C.

40'

Pumping level 48'

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SCREEN

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CENTERING GUIDES

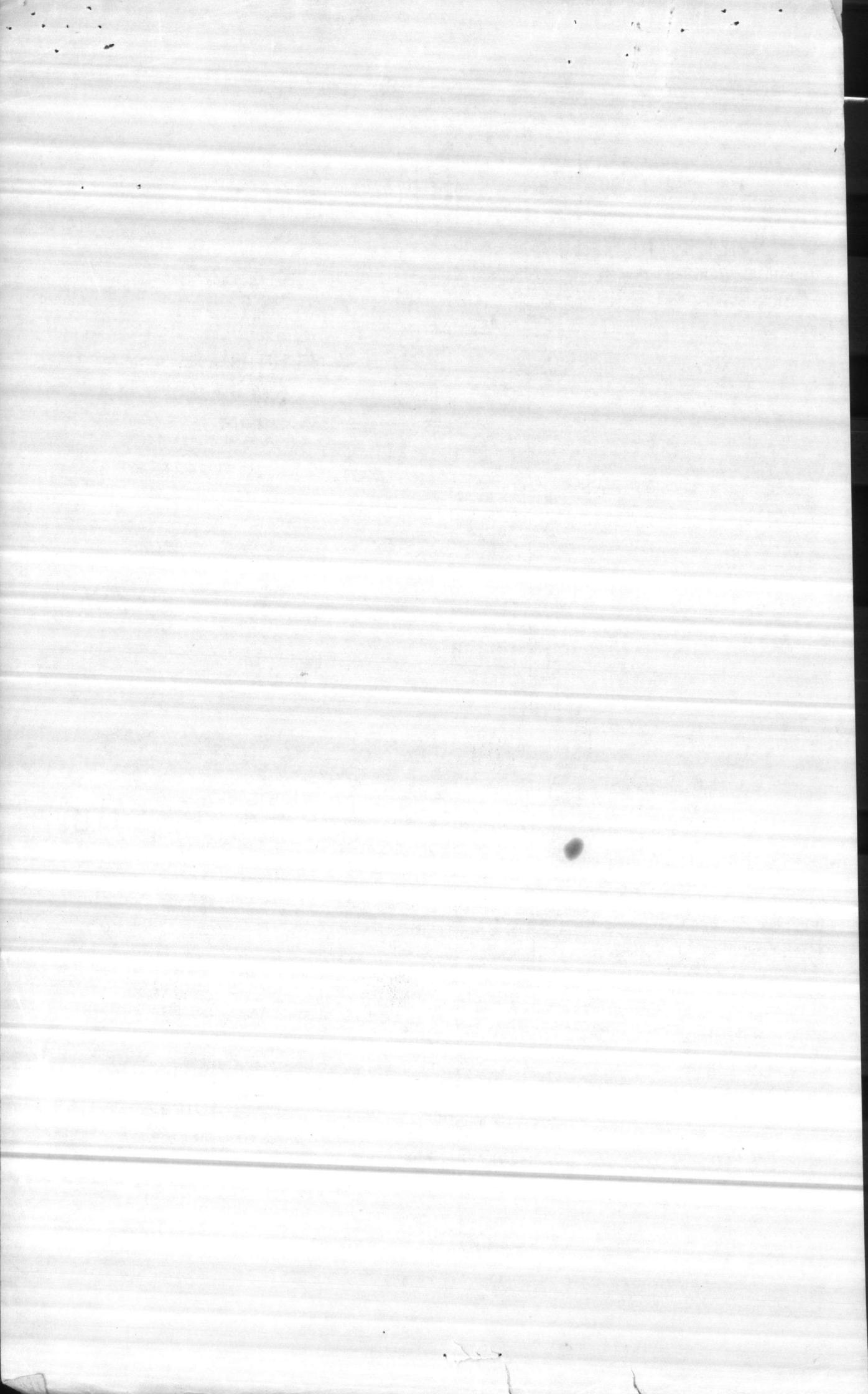
130'

SCREEN

135'

140'

STAINLESS STEEL SCREENS



USC & GS ELEV
 AIR TAP = 32.7
 FIN. FLOOR = 31.0
 ORIGINAL GROUND = 30.1

GROUND LEVEL = 0

⊕ = USC & GS 30.1

WELL H
 MARINE CORPS BASE
 CAMP LEJEUNE, N.C.

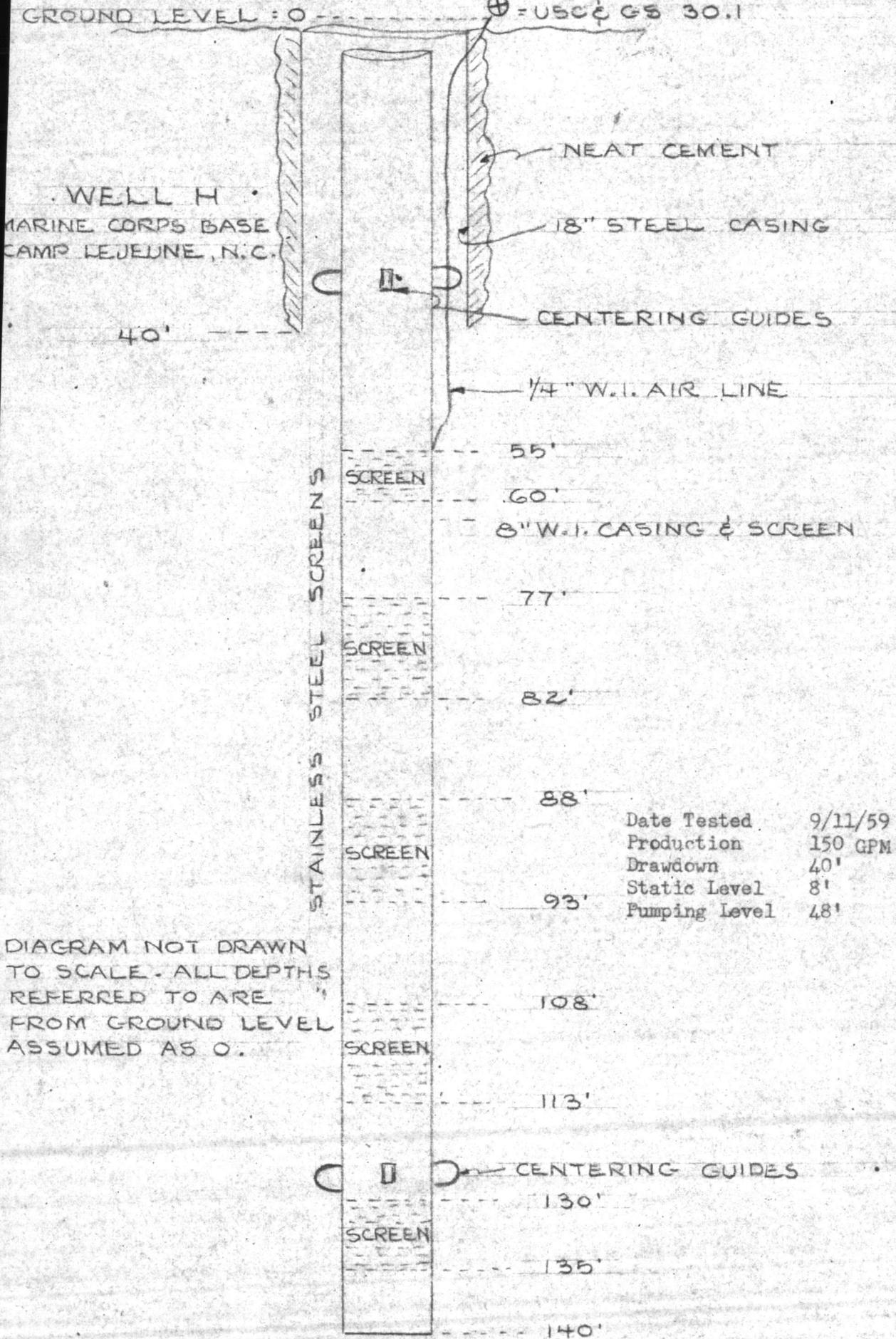
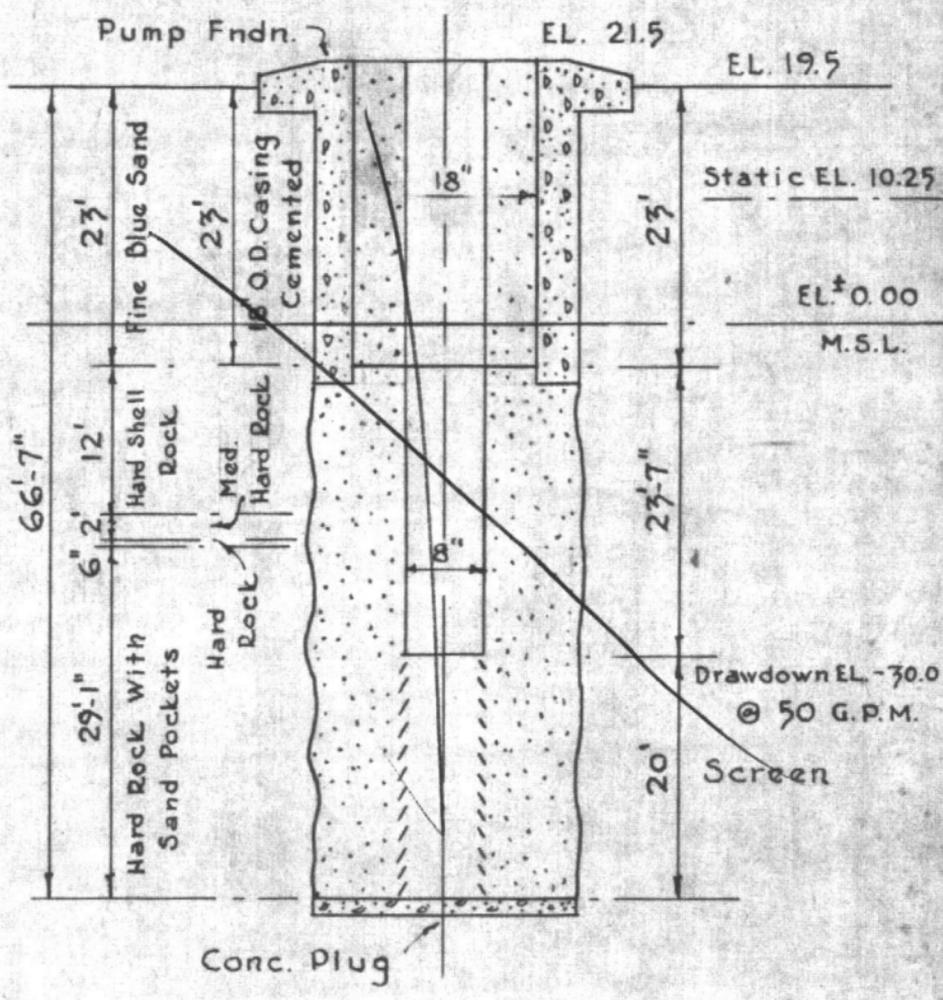
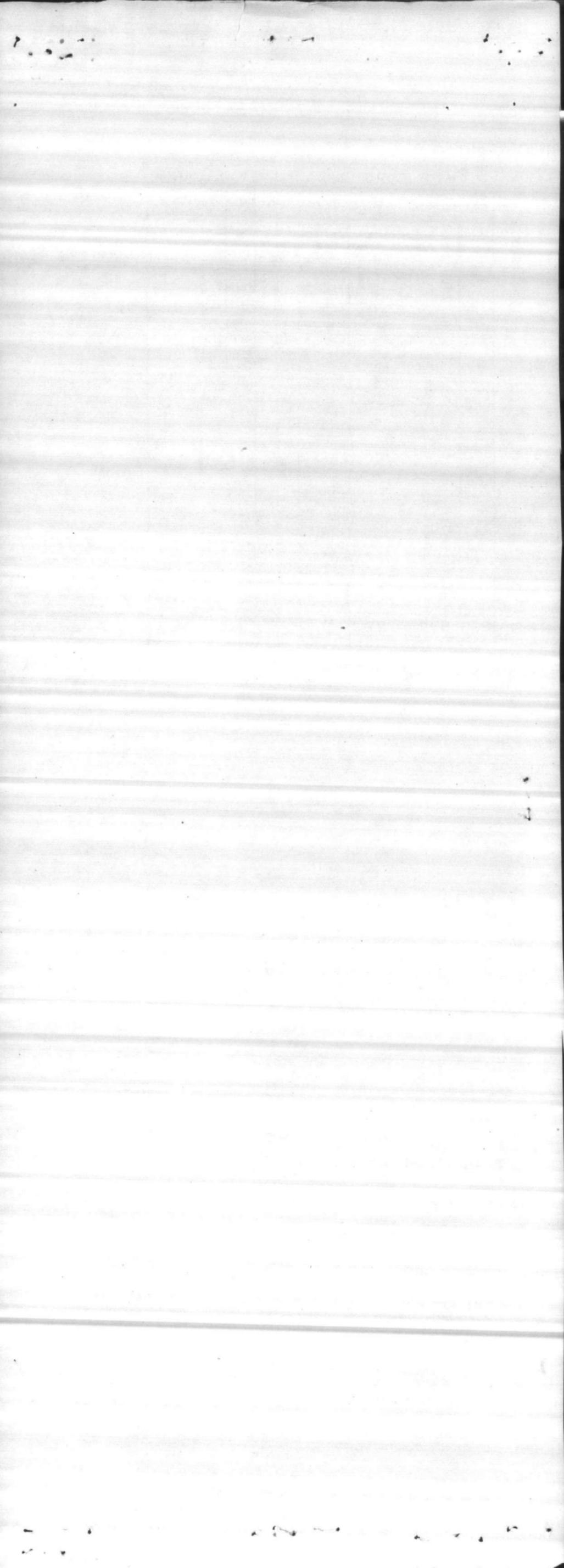


DIAGRAM NOT DRAWN
 TO SCALE. ALL DEPTHS
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 FROM GROUND LEVEL
 ASSUMED AS 0.



50 G.P.M. - SINGLE DRIVE - 2 H.P.





TC 201

Sept, 3, 1981

Shift

5 - 10' x $\frac{3}{4}$

1 - 5' x $\frac{3}{4}$

1 - 5' $7\frac{1}{4}$ " x $\frac{3}{4}$

all new bearings

60' oil tubing $1\frac{1}{2}$ " left H. threads

Top piece with male threads

all new bearings

static 8'

well depth 140'

Johnson TYPE	img	SN	Date	stage
8AC	$6\frac{1}{8}$	CF5106	1-22-74	2



<input checked="" type="checkbox"/> CHECKED BOX APPLIES		<input type="checkbox"/> ORDER FOR SUPPLIES OR SERVICES		<input type="checkbox"/> REQUEST FOR QUOTATIONS NO.		PAGE 1 OF 2	
RETURN		COPY(IES) OF THIS QUOTE BY		(THIS IS NOT AN ORDER. See DD Form 1155r)		5. CERTIFIED FOR NATIONAL DEFENSE UNDER DMS REG 1 DO	
1. CONTRACT/PURCH ORDER NO. M67001-82-M-5343		2. DELIVERY ORDER NO.		3. DATE OF ORDER 81 NOV 03		4. REQUISITION/PURCH REQUEST NO. M93058-1295-W002	
6. ISSUED BY: CONTRACTING DIVISION P. O. Box 8368, Marine Corps Base Camp Lejeune, North Carolina 82-M-5343		CODE M67001		7. ADMINISTERED BY: (If other than 6)		8. DELIVERY FOB <input type="checkbox"/> DEST <input checked="" type="checkbox"/> OTHER (See Schedule if other)	
9. CONTRACTOR/QUOTER THE GEORGE SEELKE CO. 3688 CLEARVIEW AVENUE ATLANTA, GA 30340		CODE		FACILITY CODE		10. DELIVER TO FOB POINT BY: 81 DEC 15	
NAME AND ADDRESS				11. CHECK IF <input checked="" type="checkbox"/> SMALL BUSINESS <input type="checkbox"/> MINORITY BUSINESS			
				12. DISCOUNT TERMS 1/2 OF 1% 10, NET 30			
				13. MAIL INVOICES TO (In Sextuplicate) SAME AS BLOCK #6			
14. SHIP TO: FREIGHT TRAFFIC BRANCH Bldg. 1011, MCB, Camp Lejeune, N.C. 28542 82-M-5343		CODE		15. PAYMENT WILL BE MADE BY: Base Disbursing Officer MCB, Camp Lejeune, North Carolina 28542		CODE M67001	
						MARK ALL PACKAGES AND PAPERS WITH CONTRACT OR ORDER NUMBER	
16. DELIVERY		This delivery order is subject to instructions contained on this side of form only and is issued on another Government agency or in accordance with and subject to terms and conditions of above numbered contract.					
PURCHASE <input checked="" type="checkbox"/>		Reference your Telequote, 81 Nov 03 , furnish the following on terms specified herein, including, for U.S. purchases, General Provision of Purchase Order on DD Form 1155r (EXCEPT CLAUSE NO. 13 APPLIES ONLY IF THIS BOX <input type="checkbox"/> IS CHECKED, AND NO. 15 IF THIS BOX <input type="checkbox"/> IS CHECKED); special provisions					
		10 USC 2304 (a)(3) or as specified in the schedule if within the U. S., its possessions or Puerto Rico; if otherwise, under 2304(a) (6). <input type="checkbox"/> If checked, Additional General Provisions apply; Supplier shall sign "Acceptance" on DD Form 1155r and return copies.					
17. ACCOUNTING AND APPROPRIATION DATA/LOCAL USE		1721106.2720 000 67001 0 067001 2D 000000 223312342383T \$4467.00+TRANS					
18. ITEM NO.	19. PRIORITY: 07	SCHEDULE OF SUPPLIES/SERVICES		20. QUANTITY ORDERED/* ACCEPTED	21. UNIT	22. UNIT PRICE	23. AMOUNT
THIS IS A CONFIRMING ORDER.....Confirms telephonic order of same number and date given to your <u>MR. BURNETT</u> by our <u>MR. HARRIS</u> . DO NOT DUPLICATE SHIPMENT.							
INQUIRIES REGARDING THIS ORDER SHOULD BE MADE TO: ORDER CONTROL DESK /919-451-5861							
SEE PAGE #2 (PLUS ANY ADDITIONAL PAGES), for listing of items.							
* If quantity accepted by the Government is same as quantity ordered, indicate by <input checked="" type="checkbox"/> mark. If different, enter actual quantity accepted below quantity ordered and encircle.		24. UNITED STATES OF AMERICA <i>Jane O. Holsonback</i> IONE O. HOLSONBACK BY:		PURCHASING OFFICER CONTRACTING/ORDERING OFFICER		25. TOTAL 4,467.00	
28. QUANTITY IN COLUMN 20 HAS BEEN:		<input type="checkbox"/> INSPECTED <input type="checkbox"/> RECEIVED <input type="checkbox"/> ACCEPTED, AND CONFORMS TO THE CONTRACT EXCEPT AS NOTED		27. SHIP NO.		28. D.O. VOUCHER NO.	
DATE		SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATIVE		<input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL		32. PAID BY 67001-SYM #.5190 MCB CLNC	
36. I certify this account is correct and proper for payment. T. R. DEDMOND, Fiscal Acctg. Supv.		DATE		31. PAYMENT <input type="checkbox"/> COMPLETE <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL		33. AMOUNT VERIFIED CORRECT FOR	
DATE		SIGNATURE AND TITLE OF CERTIFYING OFFICER		34. CHECK NUMBER		35. BILL OF LADING NO.	
37. RECEIVED AT		38. RECEIVED BY		39. DATE RECEIVED		40. TOTAL CONTAINERS	
						41. S/R ACCOUNT NUMBER	
						42. S/R VOUCHER NO.	

Received 12-14-81

Jane O. Holsonback
IONE O. HOLSONBACK
BY:

THIS PARAGRAPH APPLIES ONLY TO QUOTATIONS SUBMITTED:

Supplies are of domestic origin unless otherwise indicated by quote. The Government reserves the right to consider quotations or modifications thereof received after the date indicated should such action be in the interest of the Government. This is a request for information and quotations furnished are not offers. When quoting, complete blocks 11, 12, 22, 23, 25. If you are unable to quote, please advise. This request does not commit the Government to pay any cost incurred in preparation or the submission of this quotation or to procure or contract for supplies or services.

GENERAL PROVISIONS

1. **INSPECTION AND ACCEPTANCE**—Inspection and acceptance will be at destination, unless otherwise provided. Until delivery and acceptance, and after any rejections, risk of loss will be on the Contractor unless loss results from negligence of the United States Government. Notwithstanding the requirements for any Government inspection and test contained in specifications applicable to this contract, except where specialized inspections or tests are specified for performance solely by the Government, the Contractor shall perform or have performed the inspections and tests required to substantiate that the supplies and services provided under the contract conform to the drawings, specifications and contract requirements listed herein, including if applicable the technical requirements for the manufacturer's part numbers specified herein.

2. **VARIATION IN QUANTITY**—No variation in the quantity of any item called for by this contract will be accepted unless such variation has been caused by conditions of loading, shipping, or packing, or allowances in manufacturing processes, and then only to the extent, if any, specified elsewhere in this contract.

3. **PAYMENTS**—Invoices shall be submitted in quadruplicate (one copy shall be marked "Original") unless otherwise specified, and shall contain the following information: Contract or Order number, item number, contract description of supplies or services, sizes, quantities, unit prices and extended totals. Bill of lading number and weight of shipment will be shown for shipments on Government Bills of Lading. Unless otherwise specified, payment will be made on partial deliveries accepted by the Government when the amount due on such deliveries so warrants.

4. **DISCOUNTS**—In connection with any discount offered, time will be computed from date of delivery of the supplies to carrier when acceptance is at the point of origin, or from date of delivery at destination or port of embarkation when delivery and acceptance are at either of these points, or from the date the correct invoice or voucher is received in the office specified by the Government, if the latter is later than date of delivery. Payment is deemed to be made for the purpose of earning the discount on the date of mailing of the Government check.

5. **DISPUTES**—(a) Except as otherwise provided in this contract, any dispute concerning a question of fact arising under this contract which is not disposed of by agreement shall be decided by the Contracting Officer.

AMENDMENT

NOTE: Attached Disputes Clause, cancels and supersedes this paragraph.

above, provided, that nothing in this contract shall be construed as making final the decision of any administrative official, representative, or board on a question of law.

6. **FOREIGN SUPPLIES**—This contract is subject to the Buy American Act (41 U.S.C. 101-104) as implemented by Executive Order 10582 of December 17, 1954, and any restrictions in appropriation acts on the procurement of foreign supplies.

7. **CONVICT LABOR**—In connection with the performance of work under this contract, the Contractor agrees not to employ any person undergoing sentence of imprisonment except as provided by Public Law 89-176, September 10, 1965 (18 U.S.C. 4082(c)(2)) and Executive Order 11755, December 29, 1973.

8. **OFFICIALS NOT TO BENEFIT**—No member of or Delegate to Congress or resident commissioner, shall be admitted to any share or part of this contract, or to any benefit that may arise therefrom, but this provision shall not be construed to extend to this contract if made with a corporation for its general benefit.

9. **CONVENANT AGAINST CONTINGENT FEES**—The Contractor warrants that no person or selling agency has been employed or retained to solicit or secure this contract upon an agreement or understanding for a commission, percentage, brokerage, or contingent fee, excepting bona fide employees or bona fide established commercial or selling agencies maintained by the Contractor for the purpose of securing business. For breach or violation of this warranty the Government shall have the right to annul this contract without liability or in its discretion to deduct from the contract price or consideration or otherwise recover the full amount of such commission, percentage, brokerage or contingent fee.

10. **GRATUITIES**—(a) The Government may, by written notice to the Contractor, terminate the right of the Contractor to proceed under this contract if it is found after notice and hearing, by the Secretary or his duly authorized representative, that gratuities (in the form of entertainment, gifts or otherwise) were offered or given by the Contractor, or any agent or representative of the Contractor, to any officer or employee of the Government with a view toward securing a contract or securing favorable treatment with respect to the awarding or amending, or the making of any determinations with respect to the performing of such contract, provided, that the existence of the facts upon which the Secretary or his duly authorized representative make such findings shall be in issue and may be reviewed in any competent court. (b) In the event this contract is terminated as provided in paragraph (a) hereof the Government shall be entitled (i) to pursue the same remedies against the Contractor as it could pursue in the event of a breach of the contract by the Contractor and (ii) as a penalty in addition to any other damages to which it may be entitled by law to exemplary damages in an amount (as determined by the Secretary or his duly authorized representative) which shall be not less than three nor more than ten times the costs incurred by the Contractor in providing any such gratuities to any such officer or employee. (c) The rights and remedies of the Government provided in this clause shall not be exclusive and are in addition to any other rights and remedies provided by law or under this contract.

11. **RENEGOTIATION**—This contract, and any subcontract hereunder, is subject to the Renegotiation Act of 1951, as amended (50 U.S.C. App. 1211 et seq.) and shall be deemed to contain all the provisions required by Section 104 thereof, and is subject to any subsequent act of Congress providing for the renegotiation of contracts.

12. **CONDITION FOR ASSIGNMENT**—This Purchase Order may not be assigned pursuant to the Assignment of Claims Act of 1940, as amended (31 U.S.C. 203, 41 U.S.C. 15), unless or until the supplier has been requested and has accepted this order by executing the Acceptance hereon.

13. **COMMERCIAL WARRANTY**—The Contractor agrees that the supplies or services furnished under this contract shall be covered by the most favorable commercial warranties the Contractor gives to any customer for such supplies or services and that the rights and remedies provided herein are in addition to and do not limit any rights afforded to the Government by any other clause of this contract.

14. **PRIORITIES, ALLOCATIONS, AND ALLOTMENTS**—The Contractor shall follow the provisions of DMS Reg. 1 or DPS Reg. 1 and all other applicable regulations and orders of the Bureau of Domestic Commerce in obtaining controlled materials and other products and materials needed to fill this order.

15. FAST PAYMENT PROCEDURE—

(a) **General.** This is a fast payment order. Invoices will be paid on the basis of the Contractor's delivery to a post office, common carrier, or, in shipment by other means, to the point of first receipt by the Government.

(b) **Responsibility for Supplies.** Title to the supplies shall vest in the Government upon delivery to a post office or common carrier for shipment to the specified destination. If shipment is by means other than post office or common carrier, title to the supplies shall vest in the Government upon delivery to the point of first receipt by the Government. Notwithstanding any other provision of the purchase order, the Contractor shall assume all responsibility and risk of loss for supplies (i) not received at destination, (ii) damaged in transit, or (iii) not conforming to purchase requirements. The Contractor shall either replace, repair, or correct such supplies promptly at his expense, provided instructions to do so are furnished by the Contracting Officer within ninety (90) days from the date title to the supplies vests in the Government.

(c) **Preparation of Invoice.**

(1) Upon delivery of supplies to a post office, common carrier, or in shipments by other means, the point of first receipt by the Government, the Contractor shall prepare an invoice in accordance with Clause 3 of the General Provisions of Purchase Order, except that invoices under a blanket purchase agreement shall be prepared in accordance with the provisions of the agreement. In shipments by either post office or common carrier, the Contractor shall either (A) cite on this invoice the date of shipment, name and address of carrier, bill of lading number or other shipment document number, or (B) attach copies of such documents to his invoice as evidence of shipment. In addition the invoice shall be prominently marked "Fast Pay." In case of delivery by other than post office or common carrier, a receipted copy of the Contractor's delivery document shall be attached to the invoice as evidence of delivery.

(2) If the purchase price excludes the cost of transportation, the Contractor shall enter the prepaid shipping cost on the invoice as a separate item. The cost of parcel post insurance will not be paid by the Government. If transportation charges are separately stated on the invoice, the Contractor agrees to retain related paid freight bills or other transportation billings paid separately for a period of three years and to furnish such bills to the Government when requested for audit purposes.

(3) In the event this order requires the preparation of a Material Inspection and Receiving Report (DD Form 250), the contractor has the option of either preparing the DD Form 250 or including the following information on the invoice, in addition to that required in (c)(1) above: (A) a statement in prominent letters "NO DD 250 PREPARED"; (B) shipment number; (C) mode of shipment; and (D) at line item level, (i) National Stock Number and/or Manufacturer's part number, (ii) unit of measure, (iii) Ship-To-Point, (iv) Mark-For-Point if in contract, and (v) MILSTRIP document number if in contract.

(d) **Certification of Invoice.** The Contractor agrees that the submission of an invoice to the Government for payment is a certification that the supplies for which the Government is being billed have been shipped or delivered in accordance with shipping instructions issued by the ordering officer, in the quantities shown on the invoice, and that such supplies are in the quantity and of the quality designated by the cited purchase order.

OUTER SHIPPING CONTAINERS SHALL BE MARKED "FAST PAY"

16. (This clause applies if this contract is for services and is not exempted by applicable regulations of the Department of Labor.)

SERVICE CONTRACT ACT OF 1965—Except to the extent that an exemption, variation or tolerance would apply pursuant to 29 CFR 4.6 if this were a contract in excess of \$2,500, the Contractor and any subcontractor hereunder shall pay all of his employees engaged in performing work on the contract not less than the minimum wage specified under section 6 (a)(1) of the Fair Labor Standards Act of 1938, as amended (current minimum wage). However, in cases where section 6 (e)(2) of the Fair Labor Standards Act of 1938 is applicable, the rates specified therein will apply. All regulations and interpretations of the Service Contract Act of 1965 expressed in 29 CFR Part 4 are hereby incorporated by reference in this contract.

ADDITIONAL GENERAL PROVISIONS

17. **CHANGES**—The Contracting Officer may at any time, by a written order, and without notice to the sureties, make changes, within the general scope of this contract, in (i) drawings, designs, or specifications, where the supplies to be furnished are to be specially manufactured for the Government in accordance therewith; (ii) method of shipment or packing and (iii) place of delivery. If any such change causes an increase or decrease in the cost of, or the time required for performance of this contract, whether changed or not changed by any such order, an equitable adjustment shall be made by written modification of this contract. Any claim by the Contractor for adjustment under this clause must be asserted within 30 days from the date of receipt by the Contractor of the notification of change provided that the Contracting Officer, if he decides that the facts justify such action, may receive and act upon any such claim if asserted prior to final payment, under this contract. Failure to agree to any adjustment shall be a dispute concerning a question of fact within the meaning of the clause of this contract entitled "Disputes." However, nothing in this clause shall excuse the Contractor from proceeding with the contract as changed.

18. **TERMINATION FOR DEFAULT**—The Contracting Officer, by written notice, may terminate this contract, in whole or in part, for failure of the Contractor to perform any of the provisions hereof. In such event, the Contractor shall be liable for damages, including the excess cost of reprocurring similar supplies or services; provided that, if (i) it is determined for any reason that the Contractor was not in default or (ii) the Contractor's failure to perform is without his and his subcontractor's control, fault or negligence, the termination shall be deemed to be a termination for convenience under paragraph 19. As used in this provision the term "subcontractor" and "subcontractors" means subcontractors at any tier.

19. **TERMINATION FOR CONVENIENCE**—The Contracting Officer, by written notice, may terminate this contract, in whole or in part, when it is in the best interest of the Government. If this contract is for supplies and is so terminated, the Contractor shall be compensated in accordance with Section VIII of the Armed Services Procurement Regulation, in effect on this contract's date. To the extent that this contract is for services and is so terminated, the Government shall be liable only for payment in accordance with the payment provisions of this contract for services rendered prior to the effective date of termination.

20. **ASSIGNMENT OF CLAIMS**—Claims for monies due or to become due under this contract shall be assigned only pursuant to the Assignment of Claims Act of 1940, as amended (31 U.S.C. 203, 41 U.S.C. 15). However, payments to an assignee of monies under this contract shall not, to the extent provided in said Act, as amended, be subject to reduction or set-off (See Clause 12).

ACCEPTANCE

The Contractor hereby accepts the offer represented by the numbered purchase order as it may previously have been or is now modified, subject to all of the terms and conditions set forth, and agrees to perform the same.

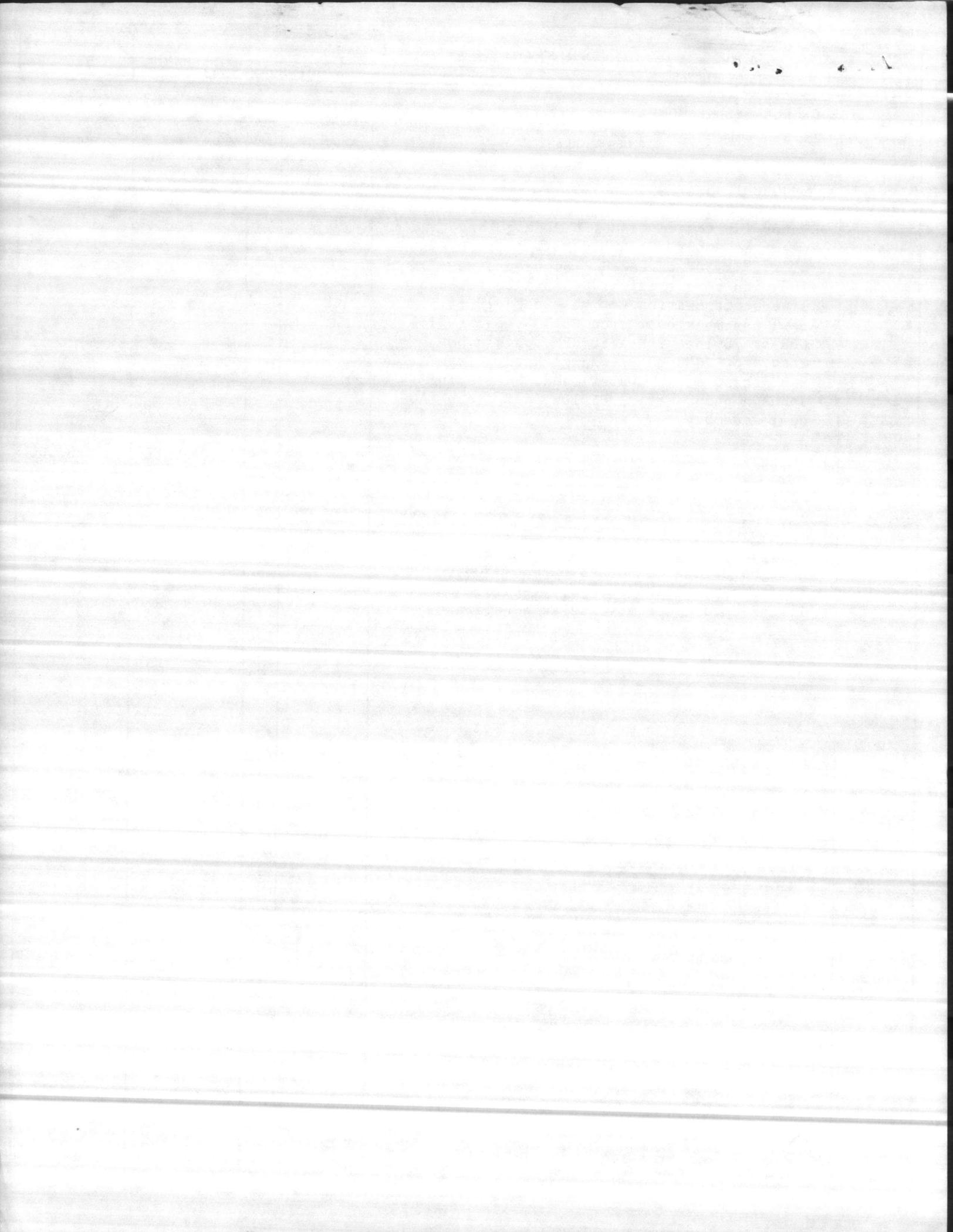
NAME OF CONTRACTOR	SIGNATURE	TYPED NAME AND TITLE	DATE SIGNED

CONTINUATION SHEET

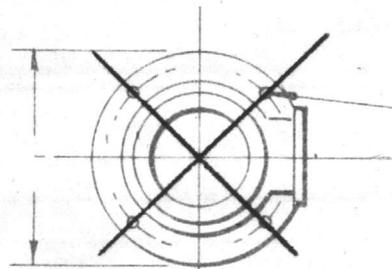
NAME OF OFFEROR OR CONTRACTOR

THE GEORGE SEELKE COMPANY

ITEM NO.	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0001	<p>M93058-1295-4779 MML999 4320-00-C99-4779 Pump, vertical turbine, water lubricated <u>less</u> discharge head and electric motor. Column assembly to be size 4" x 1" x 50' threaded. Suction size 4" x 10' with cone strainer. Distance between line shaft bearings not to exceed 10 ft. Bowl assembly cast iron CL-30 capacity 150 GPM at 70 feet TDH 1760 RPM, packin box assy. for Johnson Discharge Head, Type A-10 x 6" shaft size, Water Lube. Replacing Johnson pump, serial CF5106, w/2 stage 8AC bowl assembly.</p> <p><u>NOTE</u> : Shop Drawing on Pump Required!</p> <p>Ref: Quotation #JP-81-1095</p> <p><u>F.O.B. Chattanooga, TN</u> . Transportation charges estimated not to exceed \$200.00 . All transportation charges prepaid and listed on dealers invoice as a separate item.</p>	1	ea	4467.00	4467.00



JOHNSTON VERTICAL TURBINE PUMP

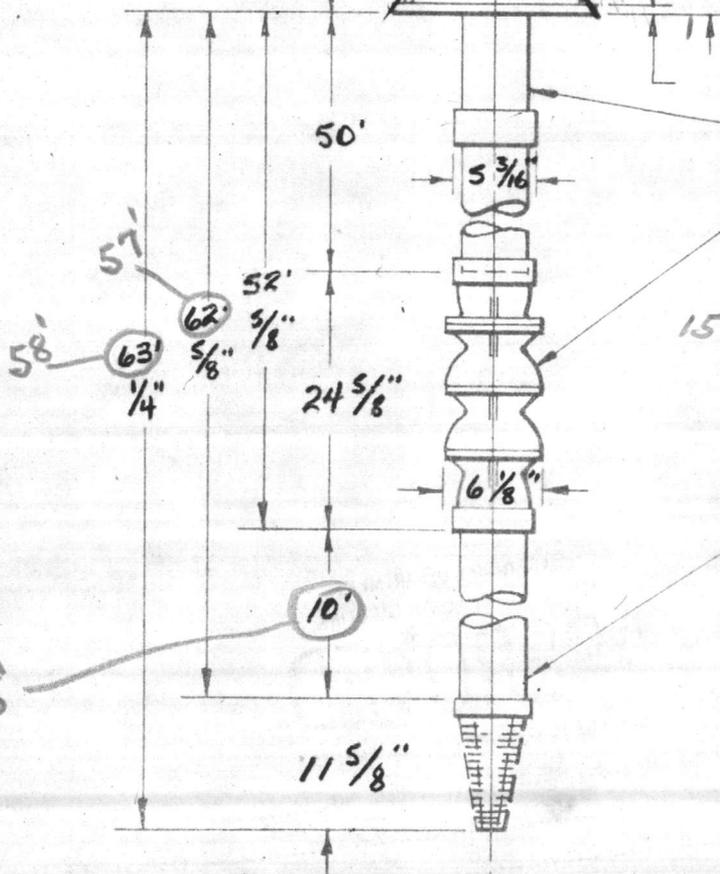


4- DIA. HOLES

Furnished By Others
VERTICAL HOLLOW SHAFT MOTOR

HP	PHASE	CYCLE
	VOLT	RPM
		ENCLOSURE

Furnished By Others
TYPE "A" DISCHARGE HEAD
" X 125# FLANGE



4" x 1 1/2" x 1" GWT
COLUMN ASSEMBLY
3 STAGE 8 AC BOWL ASSEMBLY

CONDITIONS:
150 50 USGPM
57 FT. TOTAL HEAD
LIQUID WATER
SPEC. GRAV 1.0 @ °F PUMPING TEMP.

4" SUCTION PIPE 4" CONE STRAINER

CUSTOMER _____
PC# _____
DEALER *Heater Well Co.*
PO# _____
JOHNSTON SERIAL # *JO-3887*
JOHNSTON QUOTATION # _____

NOTE: DO NOT USE FOR CONSTRUCTION
UNLESS CERTIFIED

Pump # H

JOHNSTON PUMP COMPANY
PASADENA, CALIFORNIA

5.20.57

H-1253-A

PUBLIC WORKS DEPARTMENT
CAMP LEJEUNE, NORTH CAROLINA

APPROVED

As Noted

SUBJECT TO CONTRACT REQUIREMENTS

CONTRACT NO. 3886 SPEC. NO. 3886/56
TITLE Repair to Hill Pump, Camp Geiger
DATE: 4 Jun 57 H. J. Guarn, Jr.
BY DIRECTION OF OFFICER
IN CHARGE OF CONSTRUCTION

HYDRAULIC PERFORMANCE IS CONTINGENT ON WELL BORE AND PUMP WITH CLEAR, FRESH NON-AERATED OR NON-GASEOUS WATER FREE FROM DETRITUS WITH NO SUCTION LIFT AND TEMPERATURE NOT TO EXCEED 85 DEGREES FAHRENHEIT

NOTE: ALL COLUMN LOSSES ARE INCLUDED

CUSTOMER: _____

P.O.# _____

DEALER: Heater Well Co.

P.O.# _____

JOHNSTON SERIAL: _____

Pump # H

CHANGE EFFICIENCY AS FOLLOWS	NUMBER OF POINTS	FOR NUMBER OF STAGES

NOTE: ANY CHANGE IN EFFICIENCY CHANGES EITHER THE HEAD OR HORSEPOWER IN PROPORTION

TOTAL HEAD IN FEET

75
65
55
45
35
25

Operating Conditions:
50 GPM at 57' TDH
Pumping Water SpGr 1.0

Head/Capacity

% EFFICIENCY

75
65
55

Bank Efficiency

Brake H.P. Reqd.

30 40 50 60 70

U. S. GALLONS PER MINUTE

2.0
1.0

HORSE POWER

IMPELLER BRE.
4 19/32 DIA.

JOHNSTON PUMP CO.



VERTICAL PUMPS

PERFORMANCE 4 STAGE

6 AC

DEEP WELL TURBINE PUMP

1800

R. P. M.

DATE 4-11-57 BY: JDM

PASADENA · CALIFORNIA · USA

CURVE SHEET No. _____

PUBLIC WORKS DEPARTMENT
CAMP LEJEUNE, NORTH CAROLINA

APPROVED

SUBJECT TO CONTRACT REQUIREMENTS

CONTRACT NO. 3886 SPEC. NO. 3886/56

TITLE Repairs to Well Pump, Camp Geiger

DATE: 4 June 57 H. J. L. Hanna, Jr.

BY DIRECTION OF OFFICER
IN CHARGE OF CONSTRUCTION: SB

Marine Barracks
New River, N.C.

WELLS-PERMANENT WATER SUPPLY-TENT CAMP AREA
By Layne Atlantic Company

Project P-250-1-4

WELL NO. "HW"
As on MB Drawing T.C. 223

Location: 60' S.E. of State Highway #17, approximately 1000' west of intersection of "A" and Second Street in Tent Camp 1.

Date Drilled: December 1941.

Drilling Equipment: Rotary Rig and Rotary Bit.

Status of Well: A 23" hole was drilled 23' from ground level to hard shell rock. An 18" diameter pit casing 23' long was set on the rock and fixed by filling the annular space with Portland cement.

A 17½" diameter hole was drilled below the casing to a depth of 66' to a blue clay formation. The portion below the pit casing was hydraulically underreamed. After underreaming and cleaning out, an 8" diameter pump casing, consisting of 46' 7" of blank pipe to which was welded a twenty foot section of silicon bronze shutter screen, was installed. The bottom was fixed in place by a cement plug. The space between the 8" casing and the limits of the underreaming was filled with Cape May Gravel, using about eight cubic yards.

Static Water Level: The static water level was 9' 3" below ground level.

Tests: The well was pumped for eighteen hours and showed a constant flow of 55 g.p.m. with a drawdown of 35' 7" below static level.

Water analysis dated December 18, 1942 and December 24, 1942 were made.

SECRET

CONFIDENTIAL

Log of Formations:	0' - 23'	Fine blue sand
	23' - 35'	Hard Shell Rock
	35' - 37'	Medium hard rock with same fine sand.
	37' - 37' 6"	Hard Rock
	37' 6" - 66'	Hard rock with sand pockets
	At 66'	Blue clay

Log of Casings:	0 - 46' 7"	Blank pipe
	46' 7" - 66' 7"	Silicon Bronze Screen
	66' 7" - 67' 7"	Cement plug

John E. Womeldurf

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Well # H-TC

Date	Line Ft.	D.D. El.	G.P.M.	Static Hr.	Shut of Head	D.D. Ft.
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ALTITUDE GAGE

10-25-54 -	-	-	-	34 FT	-	-
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WATER ANALYSIS

By _____

Date 8-19-43

Sample from Well H Tent Camp

Total Solids _____ PPM Dissolved Solids _____ PPM

Suspended Solids _____ PPM Volatile Solids _____ PPM

Phenol. Alk. as CaCO₃ _____ PPM Silica as SiO₂ _____ PPM

Total Alk. " " 132 " Ferrous Iron as Fe _____ "

Carbonates " " _____ " Total Iron as Fe .5 "

Bicarbonates " " _____ " Aluminum as Al. _____ "

Chlorides as Cl. 15 " Calcium as Ca. _____ "

Sulphates as SO₄ _____ " Magnesium as Mg. _____ "

Nitrites as NO₂ _____ " Sodium as Na. _____ "

Carbon Dioxide as CO₂ _____ "

pH 7.3 Soap Hardness as CaCO₃ 148 PPM

Odor _____ Turbidity _____

REMARKS _____

WATER ANALYSIS

BY _____

Date _____

Sample from _____

_____	_____	_____	Total Solids
_____	_____	_____	Suspended Solids

_____	_____	_____	Total Alk. as CaCO ₃
"	"	"	Total Alk. "
"	"	"	Carbonates "
"	"	"	Bicarbonates "
"	"	"	Chlorides as Cl.
"	"	"	Sulfates as SO ₄
"	"	"	Nitrates as NO ₃
"	"	"	Carbon Dioxide as CO ₂

Interfering _____

REMARKS _____

WELL # 14

PLACE - Geiger

DATE - 11 Jan 1957

ORIGINAL WELL CAPACITY G.P.M. 50

ORIGINAL WELL		TESTING	
Depth of Well	66.7	Depth after Cleaning	68'
Pump Size		Test Pump Setting	50'
Pump Setting	50'	Measured Static Water Level	17.5
Static Water Level	10.25	Depth of Air Line	50'

Static on gauge 19.5

CONDITION OF WELL - Well cleaned of sand and stone. Much oil on top of water.

STATIC LEVEL ON GAUGE

Inches of water in dizometer tube	G.P.M.	30 Min.	45 Min.	60 Min.	1 Hour
	50	PL	PL	PL	PL 36
	55	PL	PL	PL	PL 44
	57	PL	PL	PL	PL 50
		PL	PL	PL	PL
		PL	PL	PL	PL
		PL	PL	PL	PL
		PL	PL	PL	PL
		PL	PL	PL	PL
		PL	PL	PL	PL
		PL	PL	PL	PL
		PL	PL	PL	PL

RECOVERY	
10 Sec.	40
20	PL 30
30	PL 30
40	PL 30
50	PL 29
60	PL 29
2 Min.	PL 26
4	PL 23
8	PL 21
16	PL 20
32	PL 20

WATER ANALYSIS

By N.H. Kellan

Date DEC. 24. 41

Sample from Well H. Tca.

66 ft DEEP 55.4 PPM

Total Solids 224 PPM Volatile Solids 40 PPM

Suspended Solids 22 " Dissolved Solids 202 "

Phenolphthalein Alkalinity 0 " Silica 10 "

Total Alkalinity 120 " Ferrous Iron 0 "

Chlorides 22 " Total Iron 0.6 "

Sulphates 30 " Aluminum 1.2 "

Carbonates 0 " Calcium 67.2 "

Bicarbonates 120 " Magnesium 4.0 "

Sodium 4.6 "

pH 7.4 Soap Hardness as CaCO₃ 180 "

Mineral Hardness as CaCO₃ _____ "

Odor 0

Turbidity 5

REMARKS _____

WATER ANALYSIS

Date _____

Sample from _____

Total Solids _____
Dissolved Solids _____

Calcium _____
Magnesium _____

Aluminum _____
Iron _____

Sodium _____
Potassium _____

Hardness _____
Total Hardness _____

Chloride _____
Sulfate _____

Fluoride _____
Nitrate _____

Phosphate _____
Silica _____

Other _____
Remarks _____

WATER LEVEL

50
40
30
20
10
0'

DRAWDOWN

RECOVERY

STATIC LEVEL

GPM 50 55 60 20 25 30
0 MINUTES 5 10 15 20 25 30

CAMP LEJEUNE SPEC. #3886

WELL H
CAMP GEIGER

DATA SHEETS

CHARLES BRUNING COMPANY, INC.
NO. 700-10
10 x 10 to the Inch.
PRINTED IN U. S. A.



2 STAGE 8 A C BOWL ASSY

~~JO. 3887~~ OF 5706



U.S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
OFFICE OF WATER DATA COORDINATION
INVENTORY OF HYDROLOGIC DATA STATIONS
QUALITY OF WATER

APPROVED.
Budget Bureau No. 42-R1485
Approval Expires June 30, 1968

1. AGENCY CODE MC	2. TYPE Q	3. LATITUDE 34° 43' 28" N	4. LONGITUDE 77° 28' 31" W	5.
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6. AGENCY STATION NO. TC201	7. STATION NAME TC508-H
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8. DRAINAGE BASIN CODE No 6 Letter N	9. STATE CODE 32	10. COUNTY CODE 133	11. COUNTY NAME ONslow
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12. PERIOD OF RECORD Began 1959 Discontinued	Y <input type="checkbox"/> Continuous <input type="checkbox"/> Interruption Exceeds 1 Year	13.	14.
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15. SITE <input type="checkbox"/> 101 Stream <input type="checkbox"/> 102 Canal	<input type="checkbox"/> 103 Lake <input type="checkbox"/> 104 Reservoir <input type="checkbox"/> 105 Estuary	<input type="checkbox"/> 106 Spring <input checked="" type="checkbox"/> 107 Well <input type="checkbox"/> 110 Other
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16. FREQUENCY OF MEASUREMENT <input type="checkbox"/> 201 Continuous Recorder <input type="checkbox"/> 202 Telemetered	<input type="checkbox"/> 203 Daily <input type="checkbox"/> 204 Weekly <input type="checkbox"/> 205 Monthly <input type="checkbox"/> 206 Quarterly	<input type="checkbox"/> 207 Seasonal <input type="checkbox"/> 208 Annual <input type="checkbox"/> 209 Other Periodic <input checked="" type="checkbox"/> 210 Occasional
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17. TYPES OF DATA AVAILABLE <i>Physical</i> <input type="checkbox"/> 311 Temperature <input type="checkbox"/> 312 Specific Conductance <input type="checkbox"/> 313 Turbidity <input type="checkbox"/> 314 Color <input type="checkbox"/> 315 Odor <input type="checkbox"/> 316 Radioactivity <input checked="" type="checkbox"/> 317 pH (field) <input checked="" type="checkbox"/> 318 pH (lab) <input type="checkbox"/> 319 Eh <input type="checkbox"/> 320 Other	<i>Chemical</i> <input type="checkbox"/> 331 Dissolved solids <input checked="" type="checkbox"/> 332 Chlorides Only <input type="checkbox"/> 333 Nutrients (Nitrogen and phosphorus compounds) <input type="checkbox"/> 334 Common ions <input checked="" type="checkbox"/> 335 Hardness <input type="checkbox"/> 336 Radiochemical <input type="checkbox"/> 337 Dissolved oxygen <input type="checkbox"/> 338 Other Gases <input type="checkbox"/> 339 Other	<i>Organic</i> <input type="checkbox"/> 351 Pesticides (insecticides, herbicides, etc.) <input type="checkbox"/> 352 Synthetic detergents <input type="checkbox"/> 353 Other <i>Biologic</i> <input type="checkbox"/> 361 Coliforms <input type="checkbox"/> 362 Other Micro-organisms <input type="checkbox"/> 363 BOD <input type="checkbox"/> 364 Other <i>Sediment</i> <input type="checkbox"/> 371 Concentration <input type="checkbox"/> 372 Particle size <input type="checkbox"/> 373 Other
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18. SUPPLEMENTARY DATA FOR SITE <input type="checkbox"/> 421 Surface Water Station <input type="checkbox"/> 422 Ground Water Station	<input type="checkbox"/> 423 Water Stage or Level <input checked="" type="checkbox"/> 424 Water discharge	<input type="checkbox"/> 425 Time of Travel <input type="checkbox"/> 426 Drainage Area
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19. STORAGE OF DATA <input type="checkbox"/> 501 Periodic Report <input type="checkbox"/> 502 Areal Report	<input checked="" type="checkbox"/> 503 Not Published <input type="checkbox"/> 504 Data on Punchcard	<input type="checkbox"/> 505 Data on Magnetic Tape <input type="checkbox"/> 506 Other
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20. OFFICE AT WHICH DATA AVAILABLE		
Office <u>BASE MAINTENANCE DEPARTMENT</u>		
Street No. <u>MARINE CORPS BASE</u>		
City, State, Zip <u>CAMP LEJEUNE, N. C. 28542</u>	City Code	<u>0735</u>

21. OFFICE COMPLETING FORM <u>BASE MAINTENANCE DEPARTMENT</u>
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22. COMPILER'S NAME <u>F. E. TEW, JR.</u>	23. DATE Month	Year <u>19</u>
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