

30-5101

01,01 - 01/21/85-00075



UNITED STATES MARINE CORPS  
Marine Corps Base  
Camp Lejeune, North Carolina 28542-5001

6280/9  
FAC

21 185

N.C. Division of Environmental Management  
Groundwater Section  
Attn: Mr. Perry Nelson  
P. O. Box 27687  
Raleigh, NC 27611-7687

Re: Well Completion Records,  
Groundwater Monitoring Wells,  
Camp Lejeune

Dear Mr. Nelson:

Enclosed are the Well Completion Records for each of the 55 monitoring wells installed under the Navy Assessment and Control of Installation Pollutants Program. Also enclosed is a copy of the variance approval letter. Should you desire clarification of these records or further information, please contact Mr. Robert Alexander at 919-451-3034 or at the above address.

Sincerely,

M. G. LILLEY  
Colonel, U.S. Marine Corps  
Assistant Chief of Staff, Facilities  
By direction of the Commanding General

Encl: (1) Well Completion Records  
(2) Variance Approval Ltr, NDCDEM Undtd

Copy to: (w/o encl)  
CMC (LFL)  
→ COMLANTNAVFACENCOM (Code 114)

6280/9  
FAC  
21 JAN 1985

N.C. Division of Environmental Management  
Groundwater Section  
Attn: Mr. Perry Nelson  
P. O. Box 27687  
Raleigh, NC 27611-7687

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Dear Mr. Nelson:

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Blind Copy to:  
→ EnvEngr

Drafter: B. Alexander  
Typist: H Foster FAC 17Jan85

# ESE

**ENVIRONMENTAL SCIENCE  
AND ENGINEERING, INC.**

January 8, 1985

ESE No. 84 222 0200 1130

Commanding General  
Marine Corps Base  
Office of Assistant Chief of  
Staff Facilities  
ATTN: R.E. Alexander  
Bldg. 1, Holcomb Boulevard  
Camp Lejeune, North Carolina 28542

?

RE: Contract No. N62470-83-C-6106, Confirmation Study, Marine Corps Base,  
Camp Lejeune, North Carolina

Dear Bob:

Enclosed are the well construction forms for the fifty five ground water monitoring wells installed at Camp Lejeune. Item 18 of the form (Water Quality) was completed using the specific conductance data collected during well sampling activities and the following guideline:

<u>Specific Conductance</u> (micromhos/centimeter)	<u>Water Quality</u>
0 - 400	Good
401 - 700	Fair
greater than 700	Poor

These forms will need to be forwarded to the State of North Carolina Department of Natural Resources & Community Development.

Please do not hesitate to call me at (904) 332-3318 if you have any questions regarding these forms.

Sincerely,



Russell V. Bowen, P.E.  
Project Manager

RVB/ags

enclosures

cc: Bruce McMaster (ESE), w/o enclosure  
Cherryl Barnett (NAVFAC), w/enclosure

WELL RECORD  
 DIVISION OF ENVIRONMENTAL MANAGEMENT  
 P. O. Box 27687 - RALEIGH, N.C. 27611 919-733-2020

DRILLING CONTRACTOR STS CONSULTANTS, Ltd. REG. NO. 191 WELL CONSTRUCTION PERMIT NO. \_\_\_\_\_

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: MIDWAY PARK County: ONSLOW  
MAIN SERVICE ROAD, CAMP LEJEUNE Quadrangle No. CAMP LEJEUNE  
 (Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL, MARINE CORPS BASE  
 3. ADDRESS: OFFICE OF AS/C FACILITIES, CAMP LEJEUNE, N.C.

DRILLING LOG GW1-1

4. TOPOGRAPHY: draw, valley, slope, hilltop (circle one) 22540

DEPTH FROM	TO	FORMATION DESCRIPTION (USCS Classification)
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5. USE OF WELL: H<sub>2</sub>O Sampling DATE: 7-5-84

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO

7. TOTAL DEPTH: 21.78 RIG TYPE OR METHOD: H.S.A.

8. FORMATION SAMPLES COLLECTED: YES  NO

9. CASING: Depth Inside Dia. Wall thick. type or weight/ft.

From <u>0</u> to <u>7.32</u> ft	<u>2"</u>	<u>Sch 40</u>	<u>PVC</u>
_____	_____	_____	_____
_____	_____	_____	_____

<u>0-1.5</u>	<u>SM</u>
<u>1.5-3.0</u>	<u>SM-SC</u>
<u>3.0-7.5</u>	<u>SC-SM</u>
<u>7.5-10.5</u>	<u>SM</u>
<u>15-16</u>	<u>SM-SC</u>
<u>16-16.5</u>	<u>limestone marl LS</u>
<u>20-20.5</u>	<u>SM</u>

10. GROUT: Depth Material Method

From <u>0</u> to <u>5.32</u> ft	<u>sand-cement (4:1)</u>	<u>poured</u>
---------------------------------	--------------------------	---------------

<u>20.5-20.8</u>	<u>stiff clay lens</u>
<u>20.8-21.5</u>	<u>limestone marl</u>
<u>25-26.5</u>	<u>SP</u>
<u>26.5-26.5</u>	<u>SM</u>

11. SCREEN: Depth Dia. Type & Opening

From <u>7.32</u> to <u>21.78</u> ft	<u>2"</u>	<u>Sch 40 PVC</u>
_____	_____	<u>.010 slot</u>

If additional space is needed use back of form

LOCATION SKETCH (Show distance to numbered roads, or other map reference points)

12. GRAVEL: Depth Size Material

From <u>6.32</u> to <u>21.78</u> ft	_____	<u>Silica Sand</u>
<u>5.32</u> <u>6.32</u>	_____	<u>Bentonite</u>

13. WATER ZONES (depth): 8.1 - 21.78

FROM TOP OF CASING (TOC)

14. STATIC WATER LEVEL: 8.1 ft. above/below top of casing

Casing is 2.5 ft. above land surface ELEV: 92.33

15. YIELD (gpm): 9.5 METHOD OF TESTING: PUMPED

16. PUMPING WATER LEVEL: 8.8 ft.

after 1 hours at 8.5 gpm.

17. CHLORINATION: Type NA Amount \_\_\_\_\_

18. WATER QUALITY: POOR TEMPERATURE (°F) 71.5

19. PERMANENT PUMP: Date Installed NA

Type \_\_\_\_\_ Capacity \_\_\_\_\_ (gpm) HP \_\_\_\_\_

Make \_\_\_\_\_ Intake Depth \_\_\_\_\_

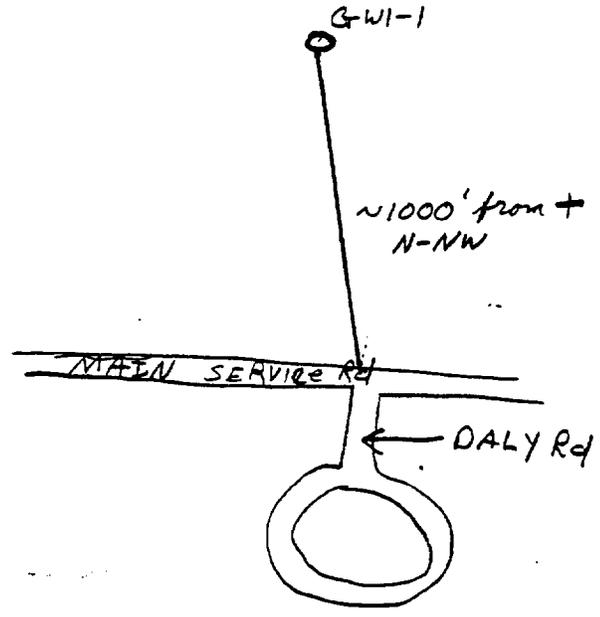
Airline Depth \_\_\_\_\_

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENTS REQUIREMENTS AND RECOMMENDATIONS? yes

21. REMARKS \* ALL ELEVATIONS ARE BASED ON A 100.0 FT. REFERENCE DATUM ELEVATION

I do hereby certify that this well was constructed in accordance with N.C. Well Construction Regulations and Standards and that this well record is true and exact.

R. J. Kunda-Monberg 12/17/84  
 SIGNATURE OF CONTRACTOR OR AGENT DATE



NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT

WELL RECORD

DIVISION OF ENVIRONMENTAL MANAGEMENT

P. O. Box 27687 - RALEIGH, N.C. 27611 919-733-2020

DRILLING CONTRACTOR

STS CONSULTANTS, Ltd. REG. NO. 191

WELL CONSTRUCTION PERMIT NO.

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: MIDWAY PARK County: ONSLOW

MAIN SERVICE ROAD, CAMP LEJEUNE Quadrangle No. CAMP LEJEUNE  
(Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL, MARINE CORP BASE

DRILLING LOG GW1-2

3. ADDRESS: OFFICE OF AC/S FACILITIES, CAMP LEJEUNE, N.C.

DEPTH FROM TO FORMATION DESCRIPTION

4. TOPOGRAPHY: draw, valley, slope, hilltop, flat (circle one)

(USCS Classification)

5. USE OF WELL: H<sub>2</sub>O Sampling DATE: 7-5-84

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO

0-1.5 SP-SM

7. TOTAL DEPTH: 21.95' RIG TYPE OR METHOD: H.S.A.

1.5-7.5 SM

8. FORMATION SAMPLES COLLECTED: YES  NO

7.5-80 SM-SC

9. CASING: Depth Inside Dia. Wall thick. type or weight/ft.

8.0-9.0 SC

From 0 to 9.9 ft 2" Sch 40 PVC

9.0-10.5 SM

15.0-16.5 SM-SC

15.5-16.5 limestone marl

10. GROUT: Depth Material Method

From 0 to 15.23 ft sand-cement (2:1) poured

If additional space is needed, use back of form

11. SCREEN: Depth Dia. Type & Opening

From 7.2 to 21.95 ft 2" Sch 40 PVC .010 slot

LOCATION SKETCH

(Show distance to numbered roads, or other map reference points)

12. GRAVEL: Depth Size Material

From 15.73 to 21.95 ft Silica Sand  
16.73 15.73 Bentonite

13. WATER ZONES (depth): 9.7 - 21.95' (TDC)

14. STATIC WATER LEVEL: 9.7 ft. above top of casing below

Casing is 2.6 ft. above land surface ELEV: 94.38'

15. YIELD (gpm): 6 METHOD OF TESTING: PUMPED

16. PUMPING WATER LEVEL: 9.8 ft. after 1 hours at 6 gpm.

17. CHLORINATION: Type NA Amount

18. WATER QUALITY: POOR TEMPERATURE (°F) 71°

19. PERMANENT PUMP: Date Installed NA

Type Capacity (gpm) HP

Make Intake Depth

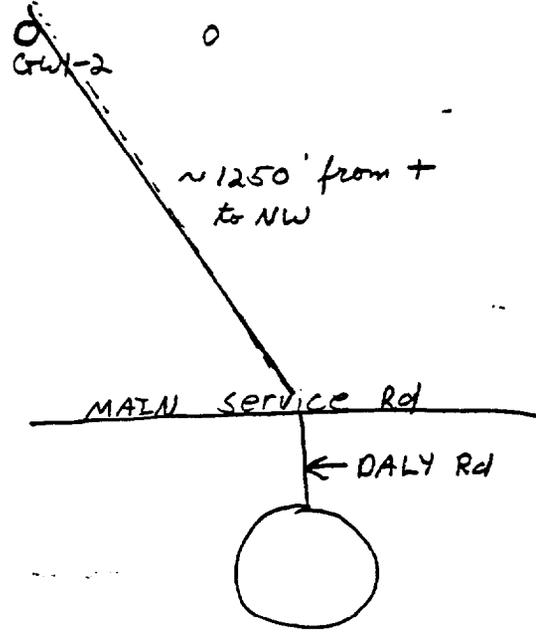
Airline Depth

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENT'S REQUIREMENTS AND RECOMMENDATIONS? yes

21. REMARKS

I do hereby certify that this well was constructed in accordance with N.C. Well Construction Regulations and Standards and that this well record is true and exact.

Signature of Contractor or Agent: [Signature] DATE: 12/17/84



NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT  
WELL RECORD DIVISION OF ENVIRONMENTAL MANAGEMENT

P. O. Box 27687 - RALEIGH, N.C. 27611 919-733-2020

DRILLING CONTRACTOR STS CONSULTANTS LTD REG. NO. 191 WELL CONSTRUCTION PERMIT NO. \_\_\_\_\_

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: MIDWAY PARK County: ONSLOW  
MAIN SERVICE RD. CAMP LETEUNE Quadrangle No. CAMP LETEUNE  
(Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL, MARINE CORP. BASE

DRILLING LOG GW1-3

3. ADDRESS: OFFICE OF AC/S FACILITIES, CAMP LETEUNE, N.C.

4. TOPOGRAPHY: draw, valley, slope, hilltop, (flat) (circle one)

DEPTH		FORMATION DESCRIPTION (USCS Classification)
FROM	TO	

5. USE OF WELL: H<sub>2</sub>O Sampling DATE: 7-5-84

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO

7. TOTAL DEPTH: 25.38 RIG TYPE OR METHOD: H.S.A.

8. FORMATION SAMPLES COLLECTED: YES  NO

Depth	Inside Dia.	Wall thick. or weight/ft.	type
From <u>0</u> to <u>10.44</u> ft	<u>2"</u>	<u>Sch 40</u>	<u>PVC</u>
_____	_____	_____	_____
_____	_____	_____	_____

Depth	Material	Method
From <u>0</u> to <u>6.5</u> ft	<u>sand cement (2:1)</u>	<u>poured</u>
_____	_____	_____
_____	_____	_____

Depth	Dia.	Type & Opening
From <u>10.44</u> to <u>14.94</u> ft	<u>2"</u>	<u>Sch 40 PVC</u> <u>.010 slot</u>
_____	_____	_____
_____	_____	_____

Depth	Size	Material
From <u>9.33</u> to <u>25.38</u> ft	<u>6-50</u>	<u>Silica Sand</u> <u>Bentonite</u>
_____	_____	_____
_____	_____	_____

13. WATER ZONES (depth): 14.6 - 25.38' (TOC)

14. STATIC WATER LEVEL: 14.6 ft. <sup>above</sup>/<sub>below</sub> top of casing  
Casing is 2.3 ft. above land surface ELEV: 97.23'

15. YIELD (gpm): 4 METHOD OF TESTING: PUMPED

16. PUMPING WATER LEVEL: 17.0 ft.  
after 2 hours at 4 gpm.

17. CHLORINATION: Type NA Amount \_\_\_\_\_

18. WATER QUALITY: GOOD TEMPERATURE (°F) 73

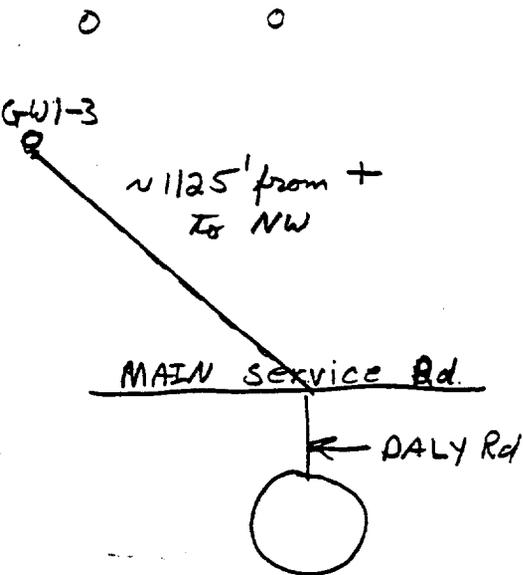
19. PERMANENT PUMP: Date Installed NA  
Type \_\_\_\_\_ Capacity \_\_\_\_\_ (gpm) HP \_\_\_\_\_  
Make \_\_\_\_\_ Intake Depth \_\_\_\_\_  
Airline Depth \_\_\_\_\_

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENTS REQUIREMENTS AND RECOMMENDATIONS? yes

21. REMARKS  
I do hereby certify that this well was constructed in accordance with N.C. Well Construction Regulations and Standards and that this well record is true and exact.

R. N. H. Thomberson 12-17-84  
SIGNATURE OF CONTRACTOR OF AGENT DATE

LOCATION SKETCH  
(Show distance to numbered roads, or other map reference points)



NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT  
WELL RECORD DIVISION OF ENVIRONMENTAL MANAGEMENT

P. O. Box 27687 - RALEIGH, N.C. 27611 919-733-2020

DRILLING CONTRACTOR STS CONSULTANTS, LTD. REG. NO. 191 WELL CONSTRUCTION PERMIT NO. \_\_\_\_\_

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: MIDWAY PARK County: ONSLOW  
MAIN SERVICE RD. CAMP LEJEUNE Quadrangle # CAMP LEJEUNE  
(Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL, MARINE CORP BASE

DRILLING LOG GW1-4

3. ADDRESS: OFFICE OF AC/S FACILITIES, CAMP LEJEUNE, N.C.

DEPTH  
FROM TO

FORMATION DESCRIPTION  
(USCS Classification)

4. TOPOGRAPHY: draw, valley, slope, hilltop (flat/circle one) 28540

5. USE OF WELL: H<sub>2</sub>O Sampling DATE: 7-5-84

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO

0-4.0 SM

7. TOTAL DEPTH: 29.96 RIG TYPE OR METHOD: H.S.A.

20-215 SC-SM

8. FORMATION SAMPLES COLLECTED: YES  NO

30.0-31.5 SM

9. CASING: Depth Inside Dia. Wall thick. type or weight/ft.

From 0 to 15 ft 2" SCH 40 PVC

10. GROUT: Depth Material Method

From 0 to 11.5 ft sand-cement (2:1) poURED

If additional space is needed, use back of form

11. SCREEN: Depth Dia. Type & Opening

From 15 to 29.96 ft 2" SCH 40 PVC  
.010 slot

LOCATION SKETCH  
(Show distance to numbered roads, or other map reference points)

12. GRAVEL: Depth Size Material

From 13.5 to 29.96 ft silica sand  
11.25 13.5 benonite

13. WATER ZONES (depth): 16 - 29.96' (TOD)

14. STATIC WATER LEVEL: 16.0 ft. <sup>above</sup> <sub>below</sub> top of casing

Casing is 2.4 ft. above land surface ELEV: 100.0'

15. YIELD (gpm): 7.5 METHOD OF TESTING: Pumped

16. PUMPING WATER LEVEL: 16.25 ft.

after 1 hours at 7.5 gpm.

17. CHLORINATION: Type NA Amount -

18. WATER QUALITY: FAIR TEMPERATURE (°F) 77

19. PERMANENT PUMP: Date Installed NA

Type \_\_\_\_\_ Capacity \_\_\_\_\_ (gpm) HP \_\_\_\_\_

Make \_\_\_\_\_ Intake Depth \_\_\_\_\_

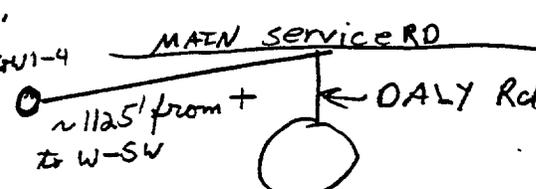
Airline Depth \_\_\_\_\_

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENT'S REQUIREMENTS AND RECOMMENDATIONS? NA

21. REMARKS

I do hereby certify that this well was constructed in accordance with N.C. Well Construction Regulations and Standards and that this well record is true and exact.

R. J. Kish-Monahan 12-17-84  
SIGNATURE OF CONTRACTOR OF AGENT DATE



DOC NO: CLEJ-00075-3.B-1/21/85

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT  
WELL RECORD DIVISION OF ENVIRONMENTAL MANAGEMENT

P. O. Box 27687 - RALEIGH, N.C. 27611 919-733-2020

DRILLING CONTRACTOR STS CONSULTANTS, LTD. REG. NO. 191 WELL CONSTRUCTION PERMIT NO.

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: MIDWAY PARK County: ONslow  
MAIN SERVICE RD., CAMP LEJEUNE Quadrangle No. CAMP LEJEUNE  
(Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL, MARINE CORP BASE

DRILLING LOG GW-5

3. ADDRESS: OFFICE OF AC/F FACILITIES, CAMP LEJEUNE, N.C.

DEPTH  
FROM TO

FORMATION DESCRIPTION  
(USCS Classification)

4. TOPOGRAPHY: draw, valley, slope, hilltop (flat) (circle one)

5. USE OF WELL: H<sub>2</sub>O Sampling DATE: 7-5-84

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO

0-1.5 SM

7. TOTAL DEPTH: 29.48 RIG TYPE OR METHOD: H.S.A

1.5-30 SM-5C

8. FORMATION SAMPLES COLLECTED: YES  NO

3.0-31.5 SM

9. CASING: Depth Inside Dia. Wall thick. or weight/ft. type

From 0 to 15.02 ft 2" Sch 40 PVC

10. GROUT: Depth Material Method

From 0 to 13.02 ft Sand-Cement (2:1) poored

If additional space is needed, use back of form

11. SCREEN: Depth Dia. Type & Opening

From 15.02 to 14.46 ft 2" Sch 40 PVC  
.010 slot

LOCATION SKETCH  
(Show distance to numbered roads, or other map reference points)

12. GRAVEL: Depth Size Material

From 14.02 to 29.48 ft 1/8" - 3/16" Silica Sand  
13.02 14.02 Bentonite

13. WATER ZONES (depth): 14.0 - 27.48' (TOC)

14. STATIC WATER LEVEL: 14.0 ft. <sup>above</sup>/<sub>below</sub> top of casing

Casing is 2.5 ft. above land surface ELEV: 98.27

15. YIELD (gpm): 4.5 METHOD OF TESTING: PUMPED

16. PUMPING WATER LEVEL: 16 ft.

after 2 hours at 4.5 gpm.

17. CHLORINATION: Type NA Amount

18. WATER QUALITY: FAIR TEMPERATURE (°F) 79

19. PERMANENT PUMP: Date Installed NA

Type Capacity (gpm) HP

Make Intake Depth

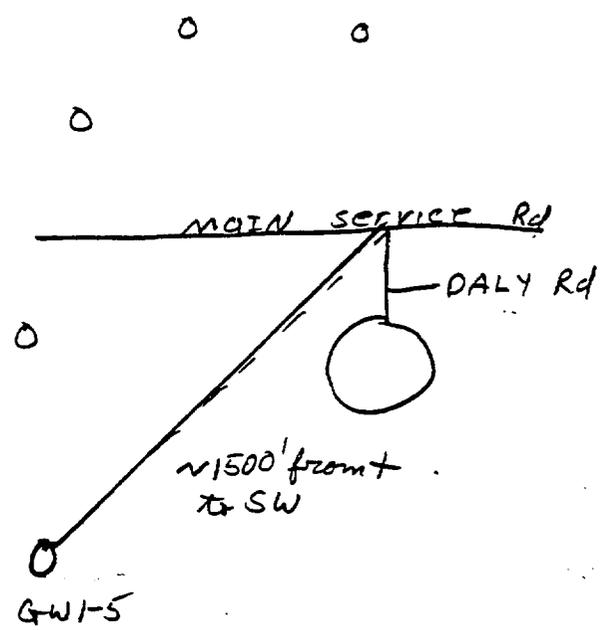
Airline Depth

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENTS REQUIREMENTS AND RECOMMENDATIONS? yes

21. REMARKS

I do hereby certify that this well was constructed in accordance with N.C. Well Construction Regulations and Standards and that this well record is true and exact.

RJ Nease-Member 12-18-84  
SIGNATURE OF CONTRACTOR OF AGENT DATE



1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: MIDWAY PARK County: ONSLOW  
MAIN SERVICE RD., CAMP LEJEUNE Quadrangle No. CAMP LEJEUNE  
 (Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL MARINE CORP CASE

DRILLING LOG GW1-6

3. ADDRESS: OFFICE OF AC/S FACILITIES, CAMP LEJEUNE N.C.

DEPTH FROM TO

FORMATION DESCRIPTION  
(USCS Classification)

4. TOPOGRAPHY: draw, valley, slope, hilltop (flat) (circle one) 28540

5. USE OF WELL: H<sub>2</sub>O Sampling DATE: 7-5-84

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO

0-16.5 SM

7. TOTAL DEPTH: 29.42 RIG TYPE OR METHOD: H.S.A.

20-21.5 CL

8. FORMATION SAMPLES COLLECTED: YES  NO

25-36.5 SM

9. CASING: Depth Inside Dia. Wall thick. type or weight/ft.

From 0 to 14.94 ft 2" Sch 40 PVC

10. GROUT: Depth Material Method

From 0 to 11.9 ft Sand-cement (2:1) poured

If additional space is needed, use back of form

11. SCREEN: Depth Dia. Type & Opening

From 14.94 to 29.42 ft 2" Sch 40 PVC  
.010 slot

LOCATION SKETCH  
(Show distance to numbered roads, or other map reference points)

12. GRAVEL: Depth Size Material

From 13.6 to 29.42 ft 11.9 13.6 Silica Sand  
 Bentonite

13. WATER ZONES (depth): 15.6 - 29.42' (OC)

14. STATIC WATER LEVEL: 15.6 ft. <sup>above</sup>/<sub>below</sub> top of casing

Casing is 2.58 ft. above land surface ELEV: 103.39'

15. YIELD (gpm): 5 METHOD OF TESTING: PUMPED

16. PUMPING WATER LEVEL: 15.8 ft.

after 1 hour at 5 gpm.

17. CHLORINATION: Type NA Amount \_\_\_\_\_

18. WATER QUALITY: GOOD TEMPERATURE (°F) 71

19. PERMANENT PUMP: Date Installed NA

Type \_\_\_\_\_ Capacity \_\_\_\_\_ (gpm) HP \_\_\_\_\_

Make \_\_\_\_\_ Intake Depth \_\_\_\_\_

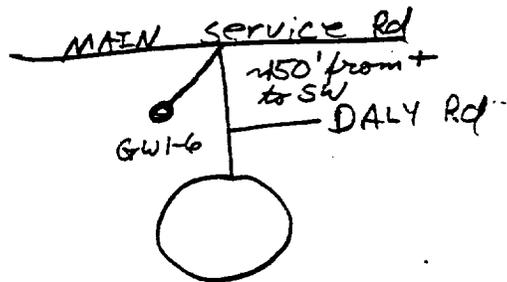
Airline Depth \_\_\_\_\_

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENTS REQUIREMENTS AND RECOMMENDATIONS? yes

21. REMARKS \_\_\_\_\_

I do hereby certify that this well was constructed in accordance with N.C. Well Construction Regulations and Standards and that this well record is true and exact.

R. J. Willy Mombaye 12-17-84  
SIGNATURE OF CONTRACTOR OF AGENT DATE



NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT

WELL RECORD

DIVISION OF ENVIRONMENTAL MANAGEMENT

P. O. Box 27687 - RALEIGH, N.C. 27611 919-733-2020

DRILLING CONTRACTOR STS CONSULTANTS, Ltd. REG. NO. 191 WELL CONSTRUCTION PERMIT NO. \_\_\_\_\_

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: MIDWAY PARK County: ONSLOW

HOLCOMB BLVD, CAMP LEJEUNE Quadrangle No: CAMP LEJEUNE  
(Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL, MARINE CORP BASE

DRILLING LOG G42-1

3. ADDRESS: OFFICE OF AC/S FACILITIES, CAMP LEJEUNE, N.C.

4. TOPOGRAPHY: draw, valley, slope, hilltop, flat (circle one) <sup>23540</sup>

DEPTH FROM	TO	FORMATION DESCRIPTION (USCS Classification)
0-4.5		SM
4.5-6.0		SM-SC
6.0-16.5		SM
16.5-21.5		SC
21.0-23.0		SP
23-24.5		SM

5. USE OF WELL: H<sub>2</sub>O Sampling DATE: 7-4-84

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO

7. TOTAL DEPTH: 22.47' RIG TYPE OR METHOD: H.S.A.

8. FORMATION SAMPLES COLLECTED: YES  NO

9. CASING: Depth Inside Dia. Wall thick. type or weight/ft.

From 0 to 8.01 ft 2" Sch 40 PVC

10. GROUT: Depth Material Method

From 0 to 6.01 ft sand-cement (2:1) poured

11. SCREEN: Depth Dia. Type & Opening

From 8.01 to 22.47 ft 2" Sch 40 PVC  
old slot

12. GRAVEL: Depth Size Material

From 7.01 to 22.47 ft 6.01 7.01 Silica Sand  
Bentonite

13. WATER ZONES (depth): 8.0 - 22.47 (TOC)

14. STATIC WATER LEVEL: 8.0 ft. above/below top of casing

Casing is 20 ft. above land surface ELEV: - Brewster Blvd

15. YIELD (gpm): 4.5 METHOD OF TESTING: PUMPED

16. PUMPING WATER LEVEL: 9.0 ft.

after 1.5 hours at 4.5 gpm.

17. CHLORINATION: Type NA Amount \_\_\_\_\_

18. WATER QUALITY: GOOD TEMPERATURE (°F) 71

19. PERMANENT PUMP: Date Installed NA

Type \_\_\_\_\_ Capacity \_\_\_\_\_ (gpm) HP \_\_\_\_\_

Make \_\_\_\_\_ Intake Depth \_\_\_\_\_

Airline Depth \_\_\_\_\_

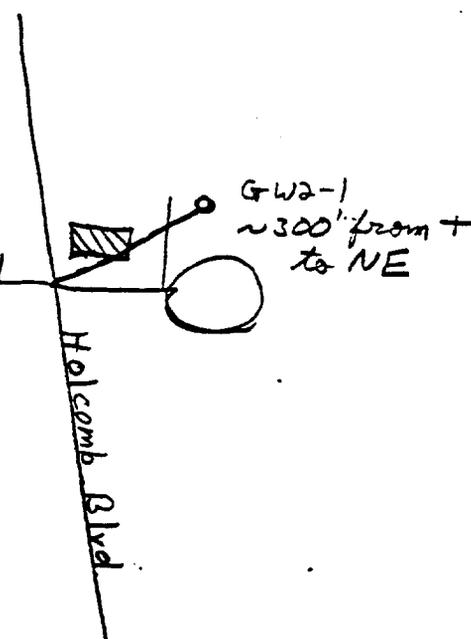
20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENT'S REQUIREMENTS AND RECOMMENDATIONS? yes

21. REMARKS

I do hereby certify that this well was constructed in accordance with N.C. Well Construction Regulations and Standards and that this well record is true and exact.

RJ Kinsley Kromberger 12-17-84  
SIGNATURE OF CONTRACTOR OF AGENT DATE

LOCATION SKETCH  
(Show distance to numbered roads, or other map reference points)



NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT

WELL RECORD

DIVISION OF ENVIRONMENTAL MANAGEMENT

P. O. Box 27687 - RALEIGH, N.C. 27611 919-733-2020

DRILLING CONTRACTOR STS CONSULTANTS, LTD. REG. NO. 191

WELL CONSTRUCTION PERMIT NO. \_\_\_\_\_

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: MIDWAY PARK County: ONSLOW  
PINEY GREEN RD. CAMP LEJEUNE Quadrangle No: CAMP LEJEUNE  
 (Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL MARINE CORP BASE

DRILLING LOG GU9-1

3. ADDRESS: OFFICE OF AC/S FACILITIES, CAMP LEJEUNE, N.C.

DEPTH FROM	TO	FORMATION DESCRIPTION (USCS Classification)
0	23.5'	SM

4. TOPOGRAPHY: draw, valley, slope, hilltop, (flat) (circle one)

5. USE OF WELL: H<sub>2</sub>O sampling DATE: 7-5-84

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO

7. TOTAL DEPTH: 22.17' RIG TYPE OR METHOD: H.S.A.

8. FORMATION SAMPLES COLLECTED: YES  NO

9. CASING: Depth Inside Dia. Wall thick. or weight/ft. type

From 0 to 7.71 ft 2" Sch 40 PVC

10. GROUT: Depth Material Method

From 0 to 5.71 ft Sand-Cement (2:1) poured

11. SCREEN: Depth Dia. Type & Opening

From 7.71 to 22.17 ft 2" Sch 40 PVC  
.010 slot

If additional space is needed, use back of form

LOCATION SKETCH (Show distance to numbered roads, or other map reference points)

12. GRAVEL: Depth Size Material

From 6.71 to 22.17 ft silica sand  
5.71 6.71 Bentonite

13. WATER ZONES (depth): 9.7 - 22.17' (OC)

14. STATIC WATER LEVEL: 9.7 ft. <sup>above</sup> top of casing <sub>below</sub>  
 Casing is 2.3 ft. above land surface ELEV: 103.6'

15. YIELD (gpm): 800 METHOD OF TESTING: PUMPED

16. PUMPING WATER LEVEL: 10.80 ft.  
 after 75 hours at 8 gpm.

17. CHLORINATION: Type NA Amount \_\_\_\_\_

18. WATER QUALITY: POOR TEMPERATURE (°F) 71

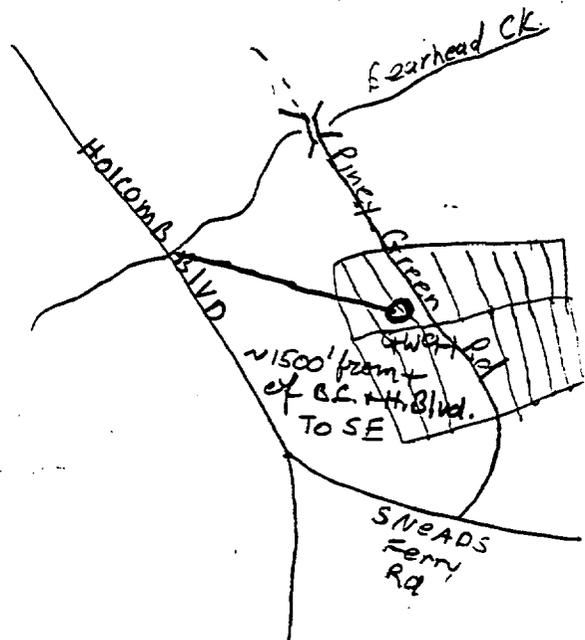
19. PERMANENT PUMP: Date Installed NA  
 Type \_\_\_\_\_ Capacity \_\_\_\_\_ (gpm) HP \_\_\_\_\_  
 Make \_\_\_\_\_ Intake Depth \_\_\_\_\_  
 Airline Depth \_\_\_\_\_

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENTS REQUIREMENTS AND RECOMMENDATIONS? Y/N

21. REMARKS

I do hereby certify that this well was constructed in accordance with N.C. Well Construction Regulations and Standards and that this well record is true and exact.

R J Winkley-Monahan 12-17-84  
 SIGNATURE OF CONTRACTOR OR AGENT DATE



NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT  
WELL RECORD DIVISION OF ENVIRONMENTAL MANAGEMENT

P. O. Box 27687 - RALEIGH, N.C. 27611 919-733-2020

DRILLING CONTRACTOR STS CONSULTANTS, LTD. REG. NO. 191 WELL CONSTRUCTION PERMIT NO. \_\_\_\_\_

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: MIDWAY PARK County: ONSCDW

PINEY GREEN RD, CAMP LEJEUNE Quadrangle No. CAMP LEJEUNE  
(Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL, MARINE CORP BASE

DRILLING LOG GW9-2

3. ADDRESS: OFFICE OF ACIS FACILITIES, CAMP LEJEUNE, N.C.

DEPTH FROM TO

FORMATION DESCRIPTION

4. TOPOGRAPHY: draw, valley, slope, hilltop (flat) (circle one)

(USCS Classification)

5. USE OF WELL: H<sub>2</sub>O Sampling DATE: 7-5-84

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO

0-21.5 SM

7. TOTAL DEPTH: 18.46 RIG TYPE OR METHOD: H.S.A.

8. FORMATION SAMPLES COLLECTED: YES  NO

9. CASING: Depth Inside Dia. Wall thick. type or weight/ft.

From 0 to 4 ft 2" Sch 40 PVC

10. GROUT: Depth Material Method

From 0 to 2 ft sand-cement (2:1) poured

If additional space is needed, use back of form

11. SCREEN: Depth Dia. Type & Opening

From 4 to 18.46 ft 2" Sch 40 PVC  
.010 slot

LOCATION SKETCH

(Show distance to numbered roads, or other map reference points)

12. GRAVEL: Depth Size Material

From 3 to 18.46 ft 2 3 Silica Sand  
 Bentonite

13. WATER ZONES (depth): 9.5 - 18.46 (TOC)

14. STATIC WATER LEVEL: 9.5 ft. above below top of casing  
Casing is 2.5 ft. above land surface ELEV: 100.0'

15. YIELD (gpm): 7.5 METHOD OF TESTING: PUMPED

16. PUMPING WATER LEVEL: 9.75 ft.  
after 1/2 hours at 7.5 gpm.

17. CHLORINATION: Type NA Amount -

18. WATER QUALITY: GOOD TEMPERATURE (°F) 73

19. PERMANENT PUMP: Date Installed NA

Type \_\_\_\_\_ Capacity \_\_\_\_\_ (gpm) HP \_\_\_\_\_

Make \_\_\_\_\_ Intake Depth \_\_\_\_\_

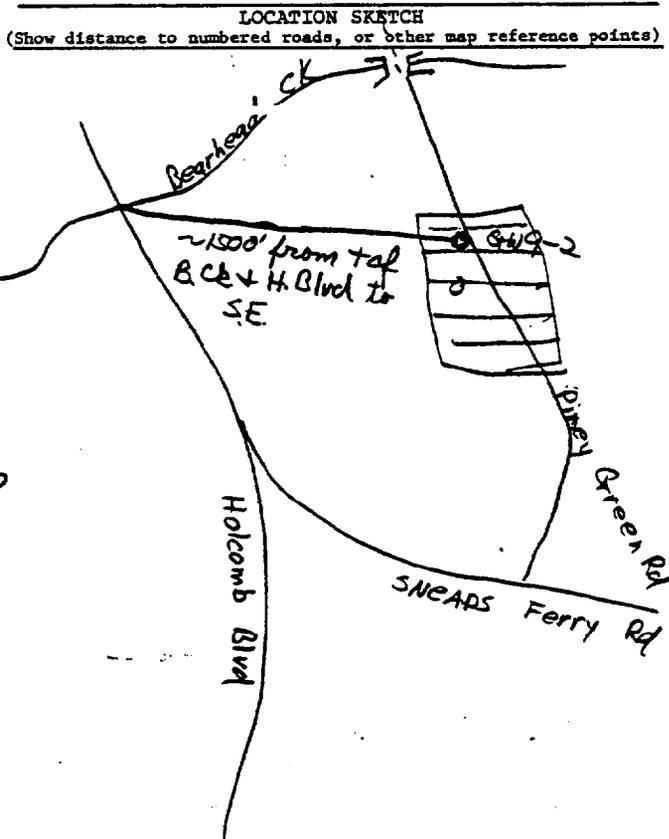
Airline Depth \_\_\_\_\_

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENT'S REQUIREMENTS AND RECOMMENDATIONS? yes

21. REMARKS

I do hereby certify that this well was constructed in accordance with N.C. Well Construction Regulations and Standards and that this well record is true and exact.

R. J. Kinsler November 2 12-17-84  
SIGNATURE OF CONTRACTOR OF AGENT DATE



NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT

WELL RECORD

DIVISION OF ENVIRONMENTAL MANAGEMENT

P. O. Box 27687 - RALEIGH, N.C. 27611 919-733-2020

DRILLING CONTRACTOR STS CONSULTANTS, LTD REG. NO. 191

WELL CONSTRUCTION PERMIT NO. \_\_\_\_\_

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: MIDWAY PARK County: ONSLOW  
HOLCOMB BLVD, CAMP LEJEUNE Quadrangle No. CAMP LEJEUNE  
 (Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL MARINE CORP BASE

DRILLING LOG GW21-1

3. ADDRESS: OFFICE OF AC/S FACILITIES, CAMP LEJEUNE

DEPTH FROM TO

FORMATION DESCRIPTION  
(USCS Classification)

4. TOPOGRAPHY: draw, valley, slope, hilltop, flat (circle one)

5. USE OF WELL: H<sub>2</sub>O Sampling DATE: 7-4-84

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO

0-1.5 GM

7. TOTAL DEPTH: 23.35 RIG TYPE OR METHOD: H.S.A.

1.5-3 ML

8. FORMATION SAMPLES COLLECTED: YES  NO

3-7.5 CL

9. CASING: Depth Inside Dia. Wall thick. or weight/ft. type

7.5-9.0 SC-SM

From 0 to 9.97 ft 2" Sch 40 PVC

15-25.0 SM

10. GROUT: Depth Material Method

From 0 to 5.5 ft sand-cement pouring

If additional space is needed, use back of form

11. SCREEN: Depth Dia. Type & Opening

From 8.97 to 23.35 ft 2" Sch 40 PVC

LOCATION SKETCH  
(Show distance to numbered roads, or other map reference points)

.010 slot

12. GRAVEL: Depth Size Material

From 7.35 to 23.35 ft Siliceous Sand

5.5 7.35  Bentonite

13. WATER ZONES (depth): 11 - 23.35' (TOL)

14. STATIC WATER LEVEL: 11.0 ft. above top of casing

Casing is 1.17 ft. above land surface ELEV: 103.23'

15. YIELD (gpm): 7.5 METHOD OF TESTING: \_\_\_\_\_

16. PUMPING WATER LEVEL: 11.3 ft.

after 3/4 hours at 7.5 gpm.

17. CHLORINATION: Type NA Amount \_\_\_\_\_

18. WATER QUALITY: FAIR TEMPERATURE (°F) 75

19. PERMANENT PUMP: Date Installed NA

Type \_\_\_\_\_ Capacity \_\_\_\_\_ (gpm) HP \_\_\_\_\_

Make \_\_\_\_\_ Intake Depth \_\_\_\_\_

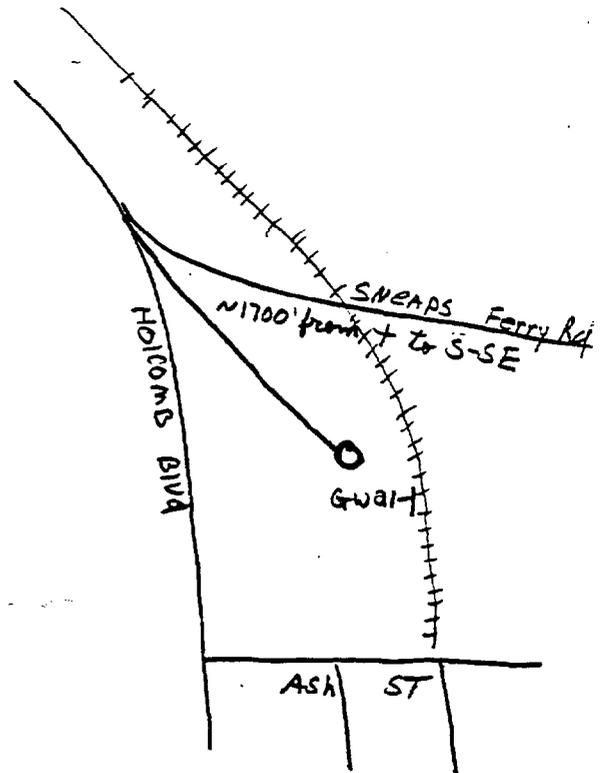
Airline Depth \_\_\_\_\_

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENT'S REQUIREMENTS AND RECOMMENDATIONS? Yes

21. REMARKS

I do hereby certify that this well was constructed in accordance with N.C. Well Construction Regulations and Standards and that this well record is true and exact.

R. J. Kinley - November 12-17-84  
 SIGNATURE OF CONTRACTOR OF AGENT DATE



Doc NO: CLEJ-00075 - 3.13 - 1/21/85

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT  
WELL RECORD DIVISION OF ENVIRONMENTAL MANAGEMENT

P. O. Box 27687 - RALEIGH, N.C. 27611 919-733-2020

DRILLING CONTRACTOR STS CONSULTANTS, Ltd - REG. NO. 191 WELL CONSTRUCTION PERMIT NO. \_\_\_\_\_

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: MIDWAY PARK County: ONSCOW  
ASH ST. CAMP LEJEUNE Quadrangle No. CAMP LEJEUNE  
(Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL, MARINE CORP BASE

DRILLING LOG GW22-1

3. ADDRESS: OFFICE OF A&S FACILITIES, CAMP LEJEUNE N.C.

DEPTH FROM TO FORMATION DESCRIPTION  
(USCS Classification)

4. TOPOGRAPHY: draw, valley, slope, hilltop (flat/circle one)

5. USE OF WELL: H<sub>2</sub>O Sampling DATE: 7-6-84

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO

0-1.75 SM

7. TOTAL DEPTH: 20.38 RIG TYPE OR METHOD: H.S.A.

1.75-30 CL

8. FORMATION SAMPLES COLLECTED: YES  NO

3-4 CL

9. CASING: Depth Inside Dia. Wall thick. type or weight/ft.

4-5.5 GM

From 0 to 5.9 ft 2" Sch 40 PUC

5.25-21.5 SM

10. GROUT: Depth Material Method  
From 0 to 2.42 ft sand-cement (2:1) poured

If additional space is needed, use back of form

11. SCREEN: Depth Dia. Type & Opening  
From 5.9 to 20.38 ft 2" Sch 40 PUC  
.010 slot

LOCATION SKETCH  
(Show distance to numbered roads, or other map reference points)

12. GRAVEL: Depth Size Material  
From 4.58 to 20.38 ft 2.42 4.58 Silica Sand  
 Bentonite

13. WATER ZONES (depth): 10.5 - 20.38' (TOL)

14. STATIC WATER LEVEL: 10.5 ft. above/below top of casing  
Casing is 2.5 ft. above land surface ELEV: 102.49

15. YIELD (gpm): 4 METHOD OF TESTING: PUMPED

16. PUMPING WATER LEVEL: 11.5 ft.  
after 1.5 hours at 4 gpm.

17. CHLORINATION: Type NA Amount -

18. WATER QUALITY: Poor TEMPERATURE (°F) 71

19. PERMANENT PUMP: Date Installed NA

Type \_\_\_\_\_ Capacity \_\_\_\_\_ (gpm) HP \_\_\_\_\_  
Make \_\_\_\_\_ Intake Depth \_\_\_\_\_

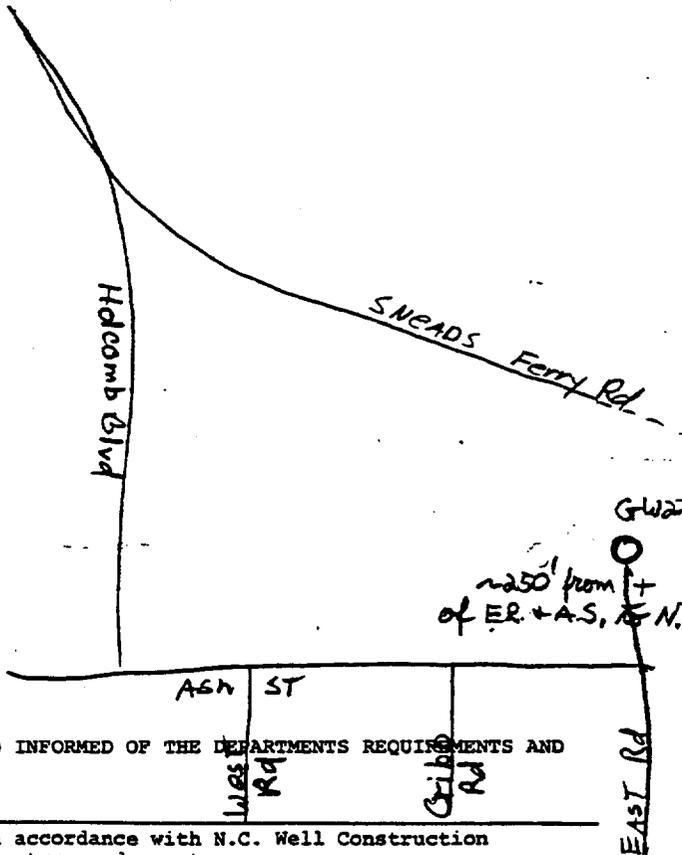
Airline Depth \_\_\_\_\_

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENTS REQUIREMENTS AND RECOMMENDATIONS? Yes

21. REMARKS

I do hereby certify that this well was constructed in accordance with N.C. Well Construction Regulations and Standards and that this well record is true and exact.

R. Kusla-Mombeger 12-17-84  
SIGNATURE OF CONTRACTOR OF AGENT DATE



NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT  
WELL RECORD DIVISION OF ENVIRONMENTAL MANAGEMENT

P. O. Box 27687 - RALEIGH, N.C. 27611 919-733-2020

DRILLING CONTRACTOR STS CONSULTANTS, Ltd. REG. NO. 191 WELL CONSTRUCTION PERMIT NO. \_\_\_\_\_

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: MIDWAY PARK County: ONSLOW  
ASH ST., CAMP LEJEUNE Quadrangle # CAMP LEJEUNE  
(Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL, MARINE CORPS BASE DRILLING LOG GW22-2

3. ADDRESS: OFFICE OF A/S FACILITIES, CAMP LEJEUNE, N.C.

4. TOPOGRAPHY: draw, valley, slope, hilltop (flat) (circle one) 28540 DEPTH FROM TO FORMATION DESCRIPTION (USCS Classification)

5. USE OF WELL: H<sub>2</sub>O Sampling DATE: 7-6-84

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO 0-6.0 SM

7. TOTAL DEPTH: 21.00 RIG TYPE OR METHOD: H.S.A. 6.0-8.5 SM-SC

8. FORMATION SAMPLES COLLECTED: YES  NO 8.5-9.0 SM

9. CASING: Depth Inside Dia. Wall thick. or weight/ft. type 9.0-10.0 SM-SC

From 0 to 6.54 2" Sch 40 PVC 10.0-10.5 SM

15-16.5 SM-SC

20-21.5 SM

10. GROUT: Depth Material Method From 0 to 4.54 sand-cement (2:1) poured

If additional space is needed, use back of form

11. SCREEN: Depth Dia. Type & Opening

From 6.54 to 21.00 2" Sch 40 PVC  
.010 slot

LOCATION SKETCH (Show distance to numbered roads, or other map reference points)

12. GRAVEL: Depth Size Material

From 5.0 to 21.0 40 50 Silica Sand  
 Bentonite

13. WATER ZONES (depth): 9.6 - 21.0' (TOC)

14. STATIC WATER LEVEL: 9.6 ft. above/below top of casing

Casing is 2.5 ft. above land surface ELEV: 100.06'

15. YIELD (gpm): 5 METHOD OF TESTING: PUMPED

16. PUMPING WATER LEVEL: 9.9 ft.

after 3/4 hours at 5 gpm.

17. CHLORINATION: Type NA Amount \_\_\_\_\_

18. WATER QUALITY: FAIR TEMPERATURE (°F) 71

19. PERMANENT PUMP: Date Installed NA

Type \_\_\_\_\_ Capacity \_\_\_\_\_ (gpm) HP \_\_\_\_\_

Make \_\_\_\_\_ Intake Depth \_\_\_\_\_

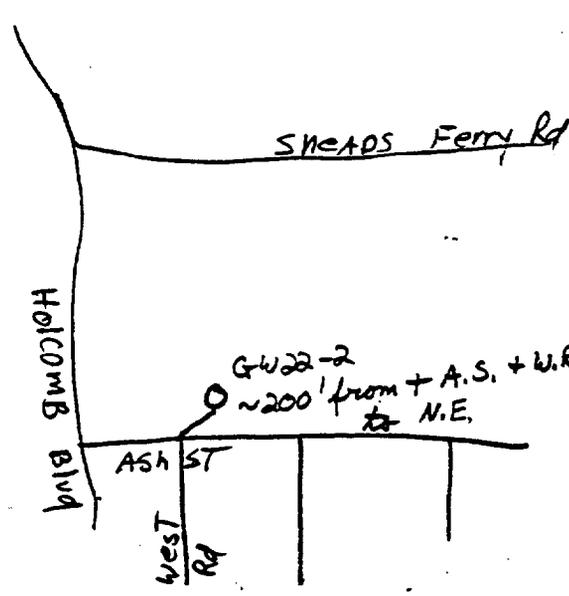
Airline Depth \_\_\_\_\_

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENTS REQUIREMENTS AND RECOMMENDATIONS? yes

21. REMARKS

I do hereby certify that this well was constructed in accordance with N.C. Well Construction Regulations and Standards and that this well record is true and exact.

RJ Kniskern 12-17-84  
SIGNATURE OF CONTRACTOR OF AGENT DATE



1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: MIDWAY PARK County: WASCO  
LOUIS RD. CAMP LEBLANC Quadrangle # CAMP LEBLANC  
(Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL, MARINE CORP BASE

DRILLING LOG GW24-1

3. ADDRESS: OFFICE OF A/C FACILITIES, CAMP LEBLANC, N.C.

4. TOPOGRAPHY: draw, valley, slope, hilltop, flat (circle one)

DEPTH FROM TO FORMATION DESCRIPTION (USCS Classification)

5. USE OF WELL: H<sub>2</sub>O Sampling DATE: 7-7-84

0-1.75 SM

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO

1.75-3.0 ML

7. TOTAL DEPTH: 20.27 RIG TYPE OR METHOD: H.S.A.

3.0-4.5 SM

8. FORMATION SAMPLES COLLECTED: YES  NO

4.5-26.5 SM

9. CASING: Depth Inside Dia. Wall thick. type From 0 to 5.85 ft. 2" Sch 40 PVC

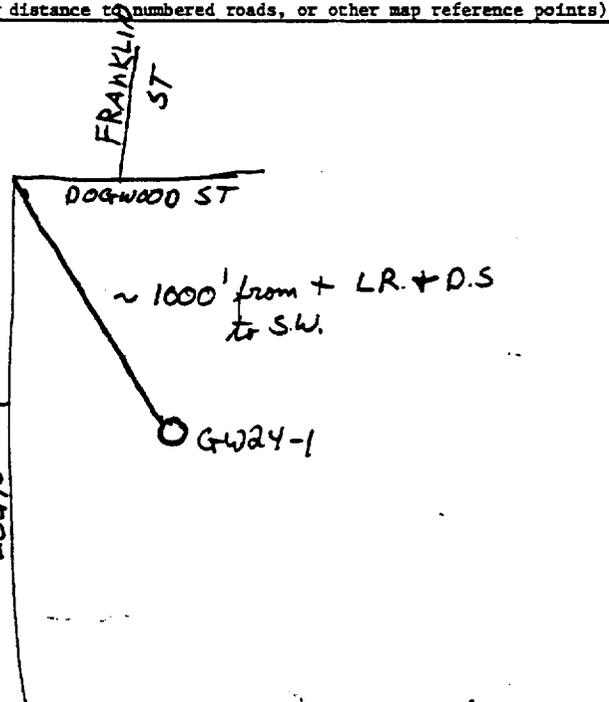
10. GROUT: Depth Material Method From 0 to 3.27 ft. Sand-Cement (2:1) poured

If additional space is needed, use back of form

11. SCREEN: Depth Dia. Type & Opening From 5.85 to 20.27 ft. 2" Sch 40 PVC .010 slot

LOCATION SKETCH (Show distance to numbered roads, or other map reference points)

12. GRAVEL: Depth Size Material From 4.41 to 20.27 ft. 3.27 4.41 Silica Sand Bentonite



13. WATER ZONES (depth): 9.7 - 20.27 (TDC)

14. STATIC WATER LEVEL: 9.7 ft. above/below top of casing Casing is 2.7 ft. above land surface ELEV: 91.1'

15. YIELD (gpm): 7.5 METHOD OF TESTING: PUMPED

16. PUMPING WATER LEVEL: 9.8 ft. after 1 hours at 7.5 gpm.

17. CHLORINATION: Type NA Amount \_\_\_\_\_

18. WATER QUALITY: GOOD TEMPERATURE (°F) 67

19. PERMANENT PUMP: Date Installed NA

Type \_\_\_\_\_ Capacity \_\_\_\_\_ (gpm) HP \_\_\_\_\_  
Make \_\_\_\_\_ Intake Depth \_\_\_\_\_

Airline Depth \_\_\_\_\_

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENT'S REQUIREMENTS AND RECOMMENDATIONS? yes

21. REMARKS

I do hereby certify that this well was constructed in accordance with N.C. Well Construction Regulations and Standards and that this well record is true and exact.

D.J. Kish-Homberg 12-17-84  
SIGNATURE OF CONTRACTOR OF AGENT DATE

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT

WELL RECORD

DIVISION OF ENVIRONMENTAL MANAGEMENT

P. O. Box 27687 - RALEIGH, N.C. 27611 919-733-2020

DRILLING CONTRACTOR STS CONSULTANTS, LTD. REG. NO. 191

WELL CONSTRUCTION PERMIT NO.

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: MIDWAY PARK

County: ONSLOW

LOUIS RD., CAMP LEJEUNE  
(Road, Community or Subdivision and Lot No.)

Quadrangle No. CAMP LEJEUNE

2. OWNER: COMMANDING GENERAL, MARINE CORP BASE

DRILLING LOG GW24-2

3. ADDRESS: OFFICE OF AC/S FACILITIES, CAMP LEJEUNE, N.C. DEPTH FROM TO

4. TOPOGRAPHY: draw, valley, slope, hilltop, flat (circle one)

FORMATION DESCRIPTION  
(USCS Classification)

5. USE OF WELL: H<sub>2</sub>O Sampling DATE: 7-7-84

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO

0-21.5 SM

7. TOTAL DEPTH: 19.42 RIG TYPE OR METHOD: H.S.M.

8. FORMATION SAMPLES COLLECTED: YES NO

9. CASING: Depth Inside Wall thick. type Dia. or weight/ft.

From 0 to 4.99 ft 2" Sch 40 PVC

10. GROUT: Depth Material Method

From 0 to 1.72 ft Sand-concrete (3:1) poured

If additional space is needed, use back of form

11. SCREEN: Depth Dia. Type & Opening

From 4.99 to 19.42 ft 2" Sch 40 PVC, Old plot

LOCATION SKETCH

(Show distance to numbered roads, or other map reference points)

12. GRAVEL: Depth Size Material

From 2.67 to 19.42 ft Silica Sand, Bentonite

13. WATER ZONES (depth):

3.6 - 19.42' (TOC)

14. STATIC WATER LEVEL: 3.6 ft. above/below top of casing

Casing is 2.5 ft. above land surface ELEV: 86.57'

15. YIELD (gpm): 8.0 METHOD OF TESTING: PUMPED

16. PUMPING WATER LEVEL: 3.6 ft.

after 1 hours at 8.0 gpm.

17. CHLORINATION: Type NA Amount

18. WATER QUALITY: GOOD TEMPERATURE (°F) 71

19. PERMANENT PUMP: Date Installed NA

Type Capacity (gpm) HP

Make Intake Depth

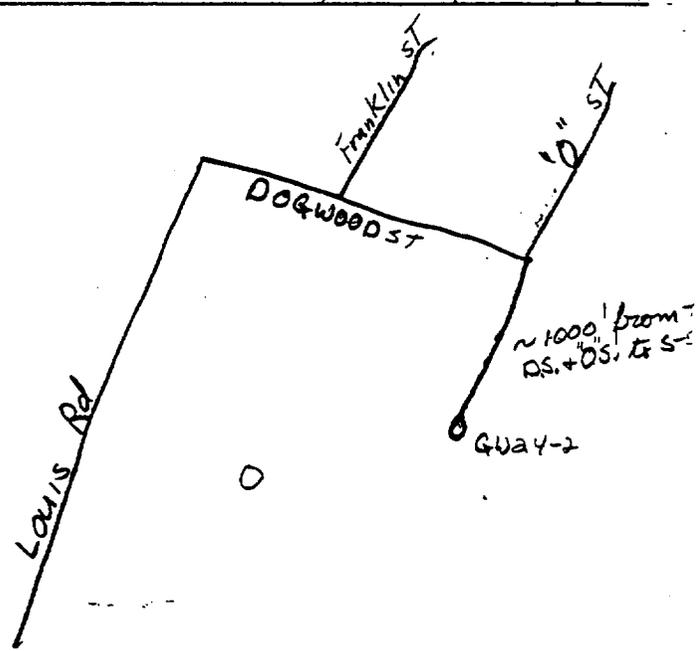
Airline Depth

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENTS REQUIREMENTS AND RECOMMENDATIONS? y/s

21. REMARKS

I do hereby certify that this well was constructed in accordance with N.C. Well Construction Regulations and Standards and that this well record is true and exact.

Signature of Contractor: R. J. Kish-Monberger 12-17-84



NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT

WELL RECORD

DIVISION OF ENVIRONMENTAL MANAGEMENT

P. O. Box 27687 - RALEIGH, N.C. 27611 919-733-2020

DRILLING CONTRACTOR STS CONSULTANTS, LTD. REG. NO. 191

WELL CONSTRUCTION PERMIT NO.

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: MIDWAY PARK County: ONSLOW  
DOGWOOD ST, CAMP LEJEUNE Quadrangle No. CAMP LEJEUNE  
 (Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL, MARINE CORP BASE

DRILLING LOG GW24-3

3. ADDRESS: OFFICE OF AC/S FACILITIES, CAMP LEJEUNE, N.C.

DEPTH  
FROM TO

FORMATION DESCRIPTION  
(USCS Classification)

4. TOPOGRAPHY: draw (valley, slope, hilltop, flat (circle one))

5. USE OF WELL: H<sub>2</sub>O Sampling DATE: 7-7-84

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO

7. TOTAL DEPTH: 19.80 RIG TYPE OR METHOD: H.S.A.

8. FORMATION SAMPLES COLLECTED: YES  NO

9. CASING: Depth Inside Wall thick. type  
Dia. or weight/ft.

From 0 to 5.3 ft 2" Sch 40 PVC

10. GROUT: Depth Material Method

From 0 to 3.25 ft Sand (cement 2:1) gravel

11. SCREEN: Depth Dia. Type & Opening

From 5.3 to 19.8 ft 2" Sch 40 PVC  
0.10 slot

If additional space is needed, use back of form

LOCATION SKETCH

(Show distance to numbered roads, or other map reference points)

12. GRAVEL: Depth Size Material

From 4.3 to 19.8 ft 3/8 4.3 silica sand  
bentonite

13. WATER ZONES (depth): 5.1 - 19.8' (TOC)

14. STATIC WATER LEVEL: 5.1 ft. above top of casing  
below Casing is 3.5 ft. above land surface ELEV: 88.8'

15. YIELD (gpm): 5.5 METHOD OF TESTING: PUMPED

16. PUMPING WATER LEVEL: 5.3 ft.

after 3/4 hours at 5.5 gpm.

17. CHLORINATION: Type NA Amount

18. WATER QUALITY: POOR TEMPERATURE (°F) 68

19. PERMANENT PUMP: Date Installed NA

Type Capacity (gpm) HP

Make Intake Depth

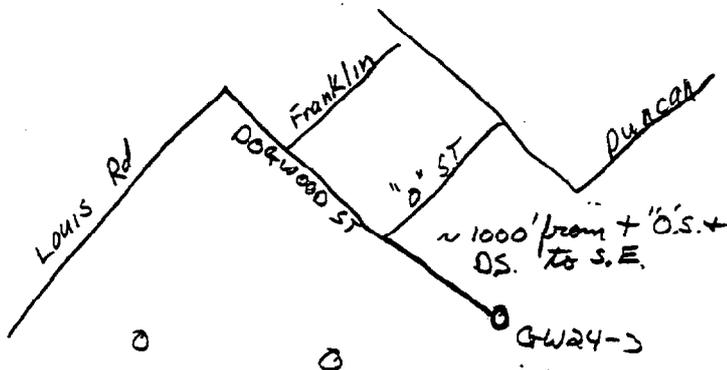
Airline Depth

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENTS REQUIREMENTS AND RECOMMENDATIONS? yes

21. REMARKS

I do hereby certify that this well was constructed in accordance with N.C. Well Construction Regulations and Standards and that this well record is true and exact.

RJ Kish-Moninger  
SIGNATURE OF CONTRACTOR OF AGENT DATE



P. O. Box 27687 - RALEIGH, N.C. 27611 919-733-2020

DRILLING CONTRACTOR STS CONSULTANTS, LTD. REG. NO. 191 WELL CONSTRUCTION PERMIT NO. \_\_\_\_\_

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: MIDWAY PALM County: ONSCOW  
DUNCAN ST., CAMP LEJEUNE Quadrangle No. CAMP LEJEUNE  
 (Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL, MARINE CORP BASE

DRILLING LOG GW24-4

3. ADDRESS: OFFICE OF AC/S FACILITIES, CAMP LEJEUNE, N.C. 28540

4. TOPOGRAPHY: draw, valley, slope, hilltop, (flat) (circle one)

DEPTH FROM	TO	FORMATION DESCRIPTION (USCS Classification)
0-1.5		SM
1.5-6		SM-SC
60-235		SM

5. USE OF WELL: H<sub>2</sub>O Sampling DATE: 7-7-84

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO

7. TOTAL DEPTH: 21.37 RIG TYPE OR METHOD: H.S.A.

8. FORMATION SAMPLES COLLECTED: YES  NO

9. CASING: Depth	Inside Dia.	Wall thick. or weight/ft.	type
From <u>0</u> to <u>6.9</u> ft	<u>2"</u>	<u>Sch 40</u>	<u>PVC</u>

10. GROUT: Depth	Material	Method
From <u>0</u> to <u>4.9</u> ft	<u>sand-cement (2:1)</u>	<u>poured</u>

11. SCREEN: Depth	Dia.	Type & Opening
From <u>6.9</u> to <u>21.37</u> ft	<u>2"</u>	<u>Sch 40 PVC</u> <u>.010 slot</u>

If additional space is needed, use back of form

LOCATION SKETCH (Show distance to numbered roads, or other map reference points)

12. GRAVEL: Depth	Size	Material
From <u>5.9</u> to <u>21.3</u> ft		<u>Silica Sand</u>
<u>4.9</u> <u>5.9</u>		<u> Bentonite</u>

13. WATER ZONES (depth): 8.5 - 21.37' (10L)

14. STATIC WATER LEVEL: 8.5 ft. <sup>above</sup> top of casing  
<sub>below</sub> Casing is 3.10 ft. above land surface ELEV: 91.41'

15. YIELD (gpm): 7 METHOD OF TESTING: PUMPED

16. PUMPING WATER LEVEL: 8.7 ft.  
 after 3/7 hours at 7 gpm.

17. CHLORINATION: Type NA Amount \_\_\_\_\_

18. WATER QUALITY: GOOD TEMPERATURE (°F) 67

19. PERMANENT PUMP: Date Installed NA

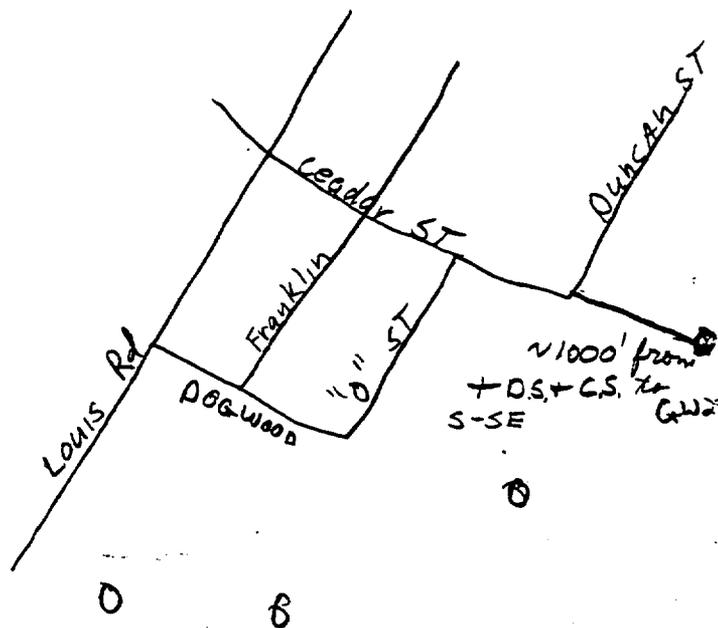
Type \_\_\_\_\_ Capacity \_\_\_\_\_ (gpm) HP \_\_\_\_\_  
 Make \_\_\_\_\_ Intake Depth \_\_\_\_\_  
 Airline Depth \_\_\_\_\_

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENT'S REQUIREMENTS AND RECOMMENDATIONS? NA

21. REMARKS

I do hereby certify that this well was constructed in accordance with N.C. Well Construction Regulations and Standards and that this well record is true and exact.

R.J. White - Brumbaugh 12/19/84  
 SIGNATURE OF CONTRACTOR OF AGENT DATE



NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT

WELL RECORD

DIVISION OF ENVIRONMENTAL MANAGEMENT

P. O. Box 27687 - RALEIGH, N.C. 27611 919-733-2020

DRILLING CONTRACTOR STS CONSULTANTS, LTD REG. NO. 191 WELL CONSTRUCTION PERMIT NO. \_\_\_\_\_

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: MIDWAY PARK County: ONSLOW  
0 STREET, CAMP LEJEUNE Quadrangle No. CAMP LEJEUNE  
 (Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL, MARINE CORPS BASE

DRILLING LOG GW24-5

3. ADDRESS: OFFICE OF A/S FACILITIES, CAMP LEJEUNE, N.C.

DEPTH FROM TO

FORMATION DESCRIPTION  
 (USGS Classification)

4. TOPOGRAPHY: draw, valley, slope, hilltop (flat) (circle one)

5. USE OF WELL: H<sub>2</sub>O Sampling DATE: 7-7-84

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO

7. TOTAL DEPTH: 22.37 RIG TYPE OR METHOD: H-S.A.

8. FORMATION SAMPLES COLLECTED: YES  NO

9. CASING: Depth Inside Dia. Wall thick. or weight/ft. type

From 0 to 7.9 ft 2" Sch 40 PVC

0-5	Tunnel
5-7.5	SM
7.5-9.0	SM-SC
9.0-10.5	SM
15.0-16.5	SM-SC
20.0-24.5	SM

10. GROUT: Depth Material Method

From 0 to 5.9 ft Sand cement (2:1) poored

If additional space is needed, use back of form

11. SCREEN: Depth Dia. Type & Opening

From 7.9 to 22.37 ft 2" Sch 40 PVC

LOCATION SKETCH  
 (Show distance to numbered roads, or other map reference points)

12. GRAVEL: Depth Size Material

From 6.5 to 22.37 ft 4.5 6x5 Silica Sand

13. WATER ZONES (depth): 12.4-22.37' (70c)

14. STATIC WATER LEVEL: 12.4 ft. above top of casing

Casing is 2.1 ft. above land surface ELEV: 100.0

15. YIELD (gpm): 7.5 METHOD OF TESTING: PUMPED

16. PUMPING WATER LEVEL: 12.5 ft.

after 1 hours at 7.5 gpm.

17. CHLORINATION: Type NA Amount

18. WATER QUALITY: GOOD TEMPERATURE (°F) 68

19. PERMANENT PUMP: Date Installed NA

Type Capacity (gpm) HP

Make Intake Depth

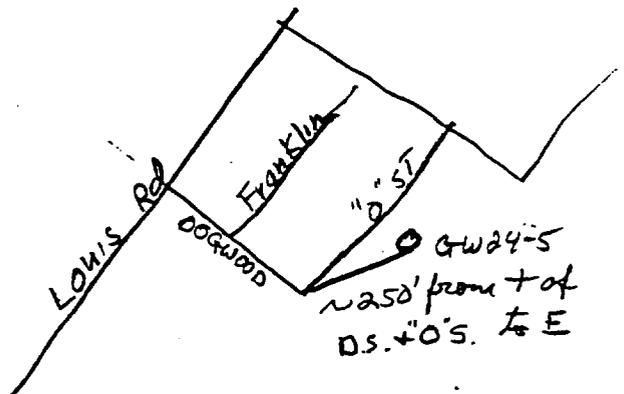
Airline Depth

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENT'S REQUIREMENTS AND RECOMMENDATIONS? yes

21. REMARKS

I do hereby certify that this well was constructed in accordance with N.C. Well Construction Regulations and Standards and that this well record is true and exact.

RJ Kirsch 12/18/84  
 SIGNATURE OF CONTRACTOR OR AGENT DATE



NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT  
WELL RECORD DIVISION OF ENVIRONMENTAL MANAGEMENT

P. O. Box 27687 - RALEIGH, N.C. 27611 919-733-2020

DRILLING CONTRACTOR STS CONSULTANTS, CTD, REG. NO. 191

WELL CONSTRUCTION PERMIT NO.

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: MIDWAY PARK County: ONSDOWN  
RIVER RD. CAMP LEJUNE Quadrangle No. CAMP LEJUNE  
(Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL, MARINE COOP BASE

DRILLING LOG GW28-1

3. ADDRESS: OFFICE OF AC/S FACILITIES, CAMP LEJUNE, N.C.

DEPTH  
FROM TO

FORMATION DESCRIPTION

(USGS Classification)

4. TOPOGRAPHY: draw, valley, slope, hilltop, flat (circle one)

5. USE OF WELL: H<sub>2</sub>O Sampling DATE: 7-7-84

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO

0-30 SM

7. TOTAL DEPTH: 19.21 RIG TYPE OR METHOD: H.S.A.

30-60 GM

8. FORMATION SAMPLES COLLECTED: YES  NO

6.0-165 SM

9. CASING: Depth Inside Wall thick. type  
Dia. or weight/ft.

From 0 to 4.68 ft 2" Sch 40 PVC

10. GROUT: Depth Material Method

From 0 to 2.17 ft sand cement (2:1) poured

If additional space is needed, use back of form

11. SCREEN: Depth Dia. Type & Opening

From 4.68 to 19.21 ft 2" Sch 40 PVC  
.010 Slot

LOCATION SKETCH  
(Show distance to numbered roads, or other map reference points)

12. GRAVEL: Depth Size Material

From 3.92 to 19.21 ft 2.17 3.92 silica sand  
bentonite

13. WATER ZONES (depth): 4.6 - 19.21' (Toc)

14. STATIC WATER LEVEL: 4.6 ft. above top of casing  
below

Casing is 2.35 ft. above land surface ELEV: 60.52

15. YIELD (gpm): 8.5 METHOD OF TESTING: PUMPED

16. PUMPING WATER LEVEL: 4.6 ft.

after 3/4 hours at 8.5 gpm.

17. CHLORINATION: Type NA Amount

18. WATER QUALITY: FAIR TEMPERATURE (°F) 71

19. PERMANENT PUMP: Date Installed NA

Type Capacity (gpm) HP

Make Intake Depth

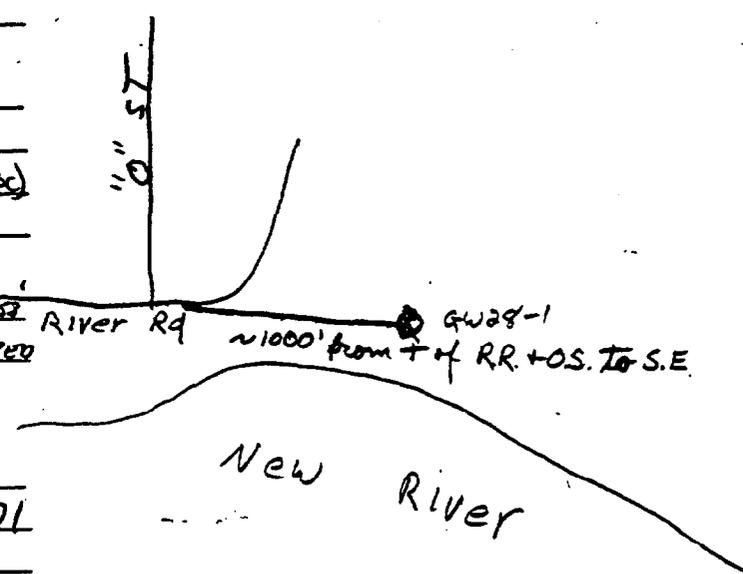
Airline Depth

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENT'S REQUIREMENTS AND RECOMMENDATIONS? yes

21. REMARKS

I do hereby certify that this well was constructed in accordance with N.C. Well Construction Regulations and Standards and that this well record is true and exact.

R. V. ... 12-18-84  
SIGNATURE OF CONTRACTOR OR AGENT DATE



Doc NO: CLEJ-00075-3.13-11/2/85

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT  
WELL RECORD DIVISION OF ENVIRONMENTAL MANAGEMENT

P. O. Box 27687 - RALEIGH, N.C. 27611 919-733-2020

DRILLING CONTRACTOR STS CONSULTANTS, Ltd. REG. NO. 191 WELL CONSTRUCTION PERMIT NO. \_\_\_\_\_

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: MIDWAY PARK County: ONSCDW  
RIVER RD. CAMP LETSUNE Quadrangle No. CAMP LETSUNE  
(Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL, CAMP LETSUNE  
MARINE CORP BASE

DRILLING LOG GW28-2

3. ADDRESS: OFFICE OF AC/S FACILITIES, CAMP LETSUNE N.C.

DEPTH  
FROM TO

FORMATION DESCRIPTION  
(USCS Classification)

4. TOPOGRAPHY: draw, valley, slope, hilltop, flat (circle one) 28540

5. USE OF WELL: H<sub>2</sub>O Sampling DATE: 7-7-84

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO

0-160 SM

7. TOTAL DEPTH: 19.47 RIG TYPE OR METHOD: H.S.A.

160-165 SW

8. FORMATION SAMPLES COLLECTED: YES  NO

19.5-20.0 SM

9. CASING: Depth Inside Dia. Wall thick. type

20.0-21.0 woody post

From 0 to 501 ft 2" Sch 40 PVC

10. GROUT: Depth Material Method

From 0 to 2 ft sand-cement (6:1) poured

If additional space is needed, use back of form

11. SCREEN: Depth Dia. Type & Opening

From 501 to 19.47 ft 2" Sch 40 PVC  
.010 slot

LOCATION SKETCH  
(Show distance to numbered roads, or other map reference points)

12. GRAVEL: Depth Size Material

From 3.0 to 19.47 ft 200 S.O. Silica Sand  
 Bentonite

13. WATER ZONES (depth): 2.8 - 19.47 (TOC)

14. STATIC WATER LEVEL: 2.8 ft. above top of casing  
below Casing is 2.5 ft. above land surface ELEV: 99.98

15. YIELD (gpm): 8.5 METHOD OF TESTING: PUMPED

16. PUMPING WATER LEVEL: 2.9 ft.  
after 3/4 hours at 8.5 gpm.

17. CHLORINATION: Type NA Amount \_\_\_\_\_

18. WATER QUALITY: POOR TEMPERATURE (°F) 73

19. PERMANENT PUMP: Date Installed NA

Type \_\_\_\_\_ Capacity \_\_\_\_\_ (gpm) HP \_\_\_\_\_

Make \_\_\_\_\_ Intake Depth \_\_\_\_\_

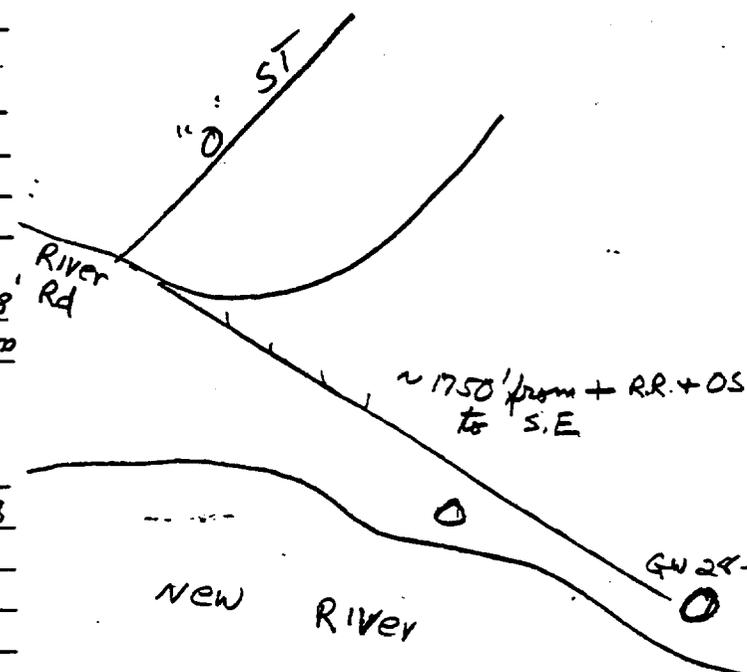
Airline Depth \_\_\_\_\_

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENTS REQUIREMENTS AND RECOMMENDATIONS? yes

21. REMARKS \_\_\_\_\_

I do hereby certify that this well was constructed in accordance with N.C. Well Construction Regulations and Standards and that this well record is true and exact.

RAKush Mombeger 12-18-84  
SIGNATURE OF CONTRACTOR OR AGENT DATE



NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT

WELL RECORD

DIVISION OF ENVIRONMENTAL MANAGEMENT

P. O. Box 27687 - RALEIGH, N.C. 27611 919-733-2020

DRILLING CONTRACTOR STS CONSULTANTS LTD. REG. NO. 191

WELL CONSTRUCTION PERMIT NO. \_\_\_\_\_

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: MIDWAY PARK County: ONSLOW  
RIVER RD. CAMP LEJEUNE Quadrangle No. CAMP LEJEUNE  
(Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL, MARINE CORP BASE

DRILLING LOG GW28-3

3. ADDRESS: OFFICE OF AC/S FACILITIES, CAMP LEJEUNE N.C. DEPTH

FORMATION DESCRIPTION  
(USCS Classification)

4. TOPOGRAPHY: draw, valley, slope, hilltop, flat (circle one)

5. USE OF WELL: H<sub>2</sub>O Sampling DATE: 7-7-84

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO

7. TOTAL DEPTH: 19.57 RIG TYPE OR METHOD: H.S.A.

8. FORMATION SAMPLES COLLECTED: YES  NO

9. CASING: Depth Inside Wall thick. type  
Dia. or weight/ft.

From 0 to 4.1 ft 2" Sch 40 PVC

DEPTH FROM	TO	FORMATION DESCRIPTION (USCS Classification)
0-3.0		SM
3.0-4.0		SM-SC
4.0-5.5		wood + other organics
5.5-6.0		SM-SC
6.0-7.5		peat
6.5-20.5		SM

10. GROUT: Depth Material Method

From 0 to 2.11 ft Sand-Cement (2:1) poured

If additional space is needed, use back of form

11. SCREEN: Depth Dia. Type & Opening

From 4.1 to 19.57 ft 2" Sch 40 PVC  
.010 slot

LOCATION SKETCH

(Show distance to numbered roads, or other map reference points)

12. GRAVEL: Depth Size Material

From 3.11 to 18.57 ft Silica Sand  
2.11 3.11 Bentonite

13. WATER ZONES (depth): 3.5 - 18.57 (TO)

14. STATIC WATER LEVEL: 3.5 ft. above/below top of casing

Casing is 2.5 ft. above land surface ELEV: 99.8'

15. YIELD (gpm): 3.5 METHOD OF TESTING: PUMPED

16. PUMPING WATER LEVEL: 5.5 ft.

after 1 1/2 hours at 3.5 gpm.

17. CHLORINATION: Type NA Amount -

18. WATER QUALITY: GOOD TEMPERATURE (°F) 78

19. PERMANENT PUMP: Date Installed NA

Type \_\_\_\_\_ Capacity \_\_\_\_\_ (gpm) HP \_\_\_\_\_

Make \_\_\_\_\_ Intake Depth \_\_\_\_\_

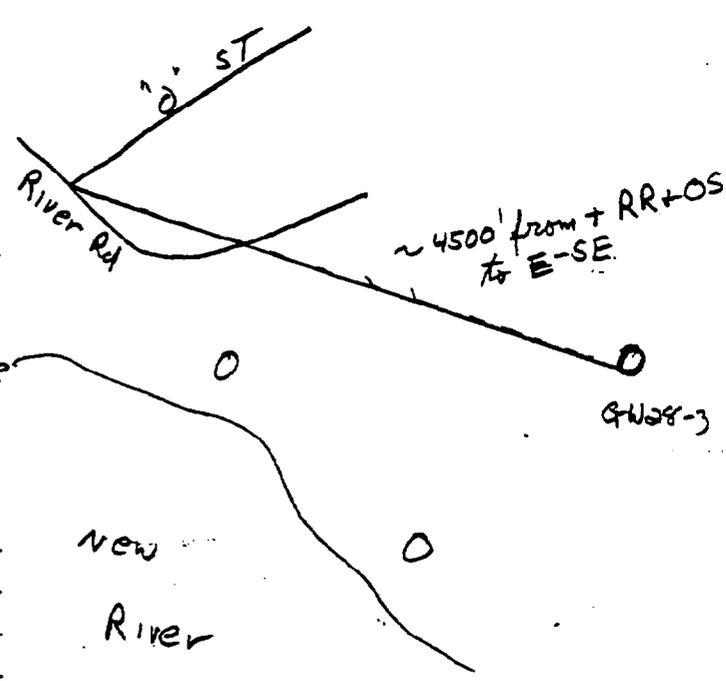
Airline Depth \_\_\_\_\_

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENT'S REQUIREMENTS AND RECOMMENDATIONS? n/a

21. REMARKS

I do hereby certify that this well was constructed in accordance with N.C. Well Construction Regulations and Standards and that this well record is true and exact.

R. Y. ... 12-18-84  
SIGNATURE OF CONTRACTOR OR AGENT DATE



Doc No: CLEJ-00075-3.13 - 1/21/85

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT  
WELL RECORD DIVISION OF ENVIRONMENTAL MANAGEMENT

P. O. Box 27687 - RALEIGH, N.C. 27611 919-733-2020

DRILLING CONTRACTOR SFS CONSULTANTS LTD. REG. NO. 191 WELL CONSTRUCTION PERMIT NO. \_\_\_\_\_

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: MIDWAY PARK County: ONSCOW  
SNEADS FERRY RD. CAMP LEJEUNE Quadrangle No. CAMP LEJEUNE  
(Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL MARINE CORP BASE

DRILLING LOG GW30-1

3. ADDRESS: OFFICE OF AC/S FACILITIES, CAMP LEJEUNE, N.C.

DEPTH FROM TO FORMATION DESCRIPTION  
(USCS Classification)

4. TOPOGRAPHY: draw, valley, slope, hilltop, flat (circle one) 2.5 ft

5. USE OF WELL: H<sub>2</sub>O Sampling DATE: 7-6-84

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO

0-21.5 SM

7. TOTAL DEPTH: 20.57 RIG TYPE OR METHOD: H.S.A

8. FORMATION SAMPLES COLLECTED: YES  NO

9. CASING: Depth Inside Wall thick. type  
Dia. or weight/ft.  
From 0 to 6.11 ft 2" Sch 40 PVC

10. GROUT: Depth Material Method  
From 0 to 4.11 ft sand cement (2:1) pooured

If additional space is needed, use back of form

11. SCREEN: Depth Dia. Type & Opening  
From 6.11 to 20.57 ft 2" Sch 40 PVC  
.010 slot

LOCATION SKETCH  
(Show distance to numbered roads, or other map reference points)

12. GRAVEL: Depth Size Material  
From 5.11 to 20.57 ft 5/16" Silica Sand  
4.11 5/16" Bentonite

13. WATER ZONES (depth): 10.2 - 20.57 (700)

14. STATIC WATER LEVEL: 10.2 ft. above top of casing  
below

Casing is 2.5 ft. above land surface ELEV: -

15. YIELD (gpm): 5 METHOD OF TESTING: PUMPED

16. PUMPING WATER LEVEL: 10.9 ft.  
after 1.5 hours at 5 gpm.

17. CHLORINATION: Type NA Amount -

18. WATER QUALITY: GOOD TEMPERATURE (°F) 71

19. PERMANENT PUMP: Date Installed NA

Type \_\_\_\_\_ Capacity \_\_\_\_\_ (gpm) HP \_\_\_\_\_

Make \_\_\_\_\_ Intake Depth \_\_\_\_\_

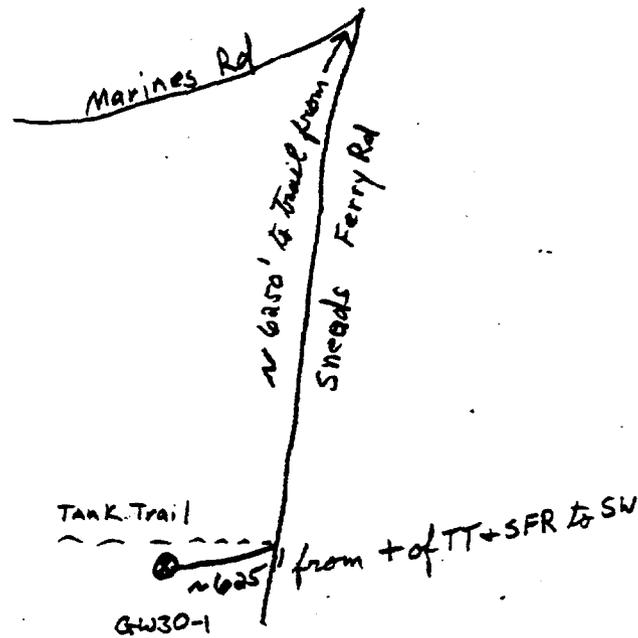
Airline Depth \_\_\_\_\_

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENTS REQUIREMENTS AND RECOMMENDATIONS? yes

21. REMARKS

I do hereby certify that this well was constructed in accordance with N.C. Well Construction Regulations and Standards and that this well record is true and exact.

R. N. Kinsley, Mombberger 12-18-84  
SIGNATURE OF CONTRACTOR OR AGENT DATE



NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT  
WELL RECORD DIVISION OF ENVIRONMENTAL MANAGEMENT

P. O. Box 27687 - RALEIGH, N.C. 27611 919-733-2020

DRILLING CONTRACTOR STS CONSULTANTS Ltd. REG. NO. 191 WELL CONSTRUCTION PERMIT NO.

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: JACKSONVILLE County: ON SLOW  
"G" STREET, CAMP LEJEUNE Quadrangle No. JACKSONVILLE SOUTH  
 (Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL, MARINE CORP BASE

DRILLING LOG G-436-1

3. ADDRESS: OFFICE OF A/C FACILITIES, CAMP LEJEUNE, N.C.

4. TOPOGRAPHY: draw, valley, slope, hilltop, flat (circle one)

DEPTH FROM TO

FORMATION DESCRIPTION  
(USCS Classification)

5. USE OF WELL: H<sub>2</sub>O Sampling DATE: 7-31-84

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO

7. TOTAL DEPTH: 21.00 RIG TYPE OR METHOD: H.S.A.

8. FORMATION SAMPLES COLLECTED: YES  NO

9. CASING: Depth Inside Dia. Wall thick. type or weight/ft.

From 0 to 6.5 ft 2" Sch 40 PVC

0-6.5 SM  
6.5-10.5 SM-SC  
10.5-15.0 SM  
15.0-21.5 SM

10. GROUT: Depth Material Method

From 0 to 3.42 ft sand-cement (2:1) poured

If additional space is needed, use back of form

11. SCREEN: Depth Dia. Type & Opening

From 6.5 to 21.00 ft 2" Sch 40 PVC  
.010 slot

LOCATION SKETCH  
(Show distance to numbered roads, or other map reference points)

12. GRAVEL: Depth Size Material

From 5.33 to 21.00 ft 3/4 6.33 Silica Sand  
Bentonite

13. WATER ZONES (depth): 5.0 - 21.0' (TOL)

14. STATIC WATER LEVEL: 5.0 ft. above/below top of casing

Casing is 2.5 ft. above land surface ELEV: 99.89'

15. YIELD (gpm): 8.0 METHOD OF TESTING: PUMPED

16. PUMPING WATER LEVEL: 5.0 ft.

after 3/4 hours at 8.0 gpm.

17. CHLORINATION: Type NA Amount

18. WATER QUALITY: GOOD TEMPERATURE (°F) 67

19. PERMANENT PUMP: Date Installed NA

Type Capacity (gpm) HP

Make Intake Depth

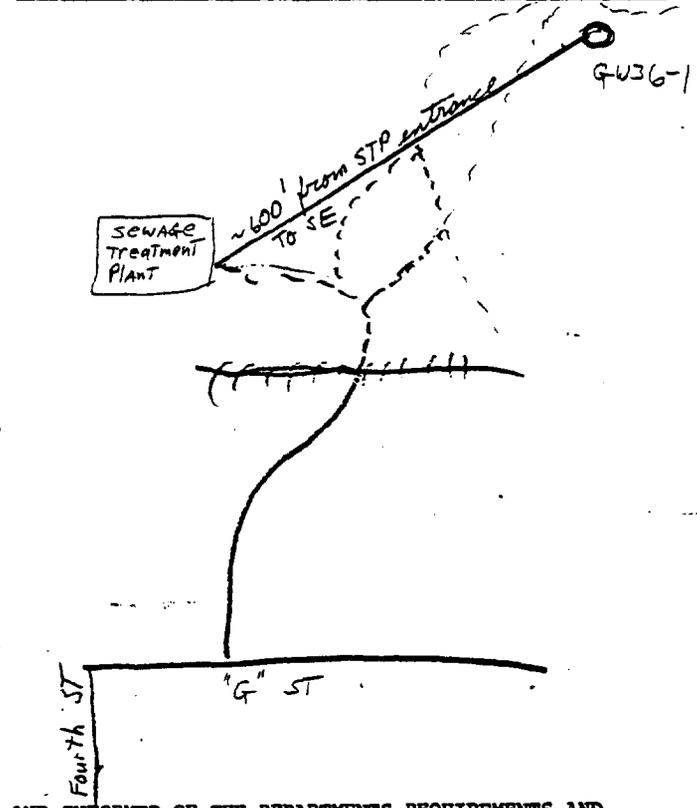
Airline Depth

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENTS REQUIREMENTS AND RECOMMENDATIONS? yes

21. REMARKS

I do hereby certify that this well was constructed in accordance with N.C. Well Construction Regulations and Standards and that this well record is true and exact.

RJ Lynch-Monahan 12-18-84  
 SIGNATURE OF CONTRACTOR OR AGENT DATE



NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT  
WELL RECORD DIVISION OF ENVIRONMENTAL MANAGEMENT

P. O. Box 27687 - RALEIGH, N.C. 27611 919-733-2020

DRILLING CONTRACTOR STS CONSULTANTS, Ltd. REG. NO. 191

WELL CONSTRUCTION PERMIT NO. \_\_\_\_\_

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: JACKSONVILLE County: ONSLOW  
"G" STREET, CAMP LEJUNE Quadrangle No. JACKSONVILLE SOUTH  
(Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL, MARINE CORP BASE

DRILLING LOG GW36-1R

3. ADDRESS: OFFICE OF AC/S FACILITIES, CAMP LEJUNE, N.C.

DEPTH  
FROM TO

FORMATION DESCRIPTION  
(USCS Class.)

4. TOPOGRAPHY: draw, valley, slope, hilltop, flat (circle one)

5. USE OF WELL: H<sub>2</sub>O Sampling DATE: 7-31-84

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO

7. TOTAL DEPTH: 20.88 RIG TYPE OR METHOD: H.S.A.

8. FORMATION SAMPLES COLLECTED: YES  NO

9. CASING: Depth Inside Dia. Wall thick. or weight/ft. type

From 0 to 6.4 ft 2" Sch 40 PVC

0-1.5	SM
1.5-3.	SM-SC
3.-6.	SM
6.-7.5	SM-SC
7.5-10.5	CL
15.-21.5	SM

10. GROUT: Depth Material Method

From 0 to 2.83 ft sand-cement (3:1) grouted

If additional space is needed, use back of form

11. SCREEN: Depth Dia. Type & Opening

From 6.4 to 20.88 ft 2" Sch 40 PVC  
.010 slot

LOCATION SKETCH  
(Show distance to numbered roads, or other map reference points)

12. GRAVEL: Depth Size Material

From 4.92 to 20.88 ft 2.53 4.92 Silica Sand  
Bentonite

13. WATER ZONES (depth): 5.0 - 20.88' (TOL)

14. STATIC WATER LEVEL: 5.0 ft. above/below top of casing

Casing is 2.5 ft. above land surface ELEV: 100.0'

15. YIELD (gpm): 7.0 METHOD OF TESTING: Pumped

16. PUMPING WATER LEVEL: 5.2 ft.

after 3/4 hours at 7.0 gpm.

17. CHLORINATION: Type NA Amount \_\_\_\_\_

18. WATER QUALITY: GOOD TEMPERATURE (°F) 67

19. PERMANENT PUMP: Date Installed NA

Type \_\_\_\_\_ Capacity \_\_\_\_\_ (gpm) HP \_\_\_\_\_

Make \_\_\_\_\_ Intake Depth \_\_\_\_\_

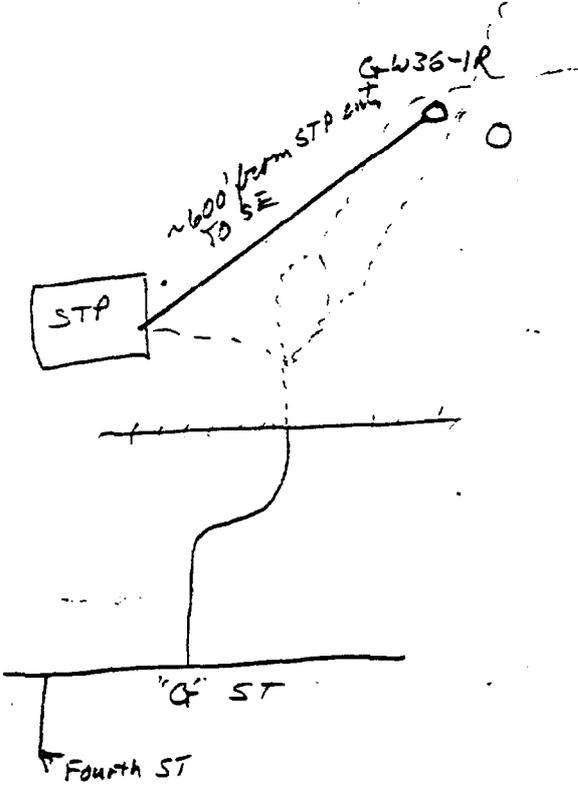
Airline Depth \_\_\_\_\_

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENTS REQUIREMENTS AND RECOMMENDATIONS? Yes

21. REMARKS

I do hereby certify that this well was constructed in accordance with N.C. Well Construction Regulations and Standards and that this well record is true and exact.

DJ Knight Mombene 12-18-84  
SIGNATURE OF CONTRACTOR OR AGENT DATE



1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: JACKSONVILLE County: ONSLOW  
G<sup>th</sup> STREET, CAMP LEJUNE Quadrangle No. JACKSONVILLE SOUTH  
 (Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL, MARINE CORPS BASE

DRILLING LOG GW36-2

3. ADDRESS: OFFICE OF A/C FACILITIES, CAMP LEJUNE, N.C.

4. TOPOGRAPHY: draw, valley, slope, hilltop, flat (circle one)

DEPTH FROM TO		FORMATION DESCRIPTION (USCS Classification)
0	1.5	SM
1.5	3.0	S.C - SM
3.0	6.0	SM
5.5	6.0	SC-SM
6.0	9.25	CL
9.25	21.5	SM

5. USE OF WELL: H<sub>2</sub>O Sampling DATE: 7-31-84

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO

7. TOTAL DEPTH: 19.92 RIG TYPE OR METHOD: H.S.A.

8. FORMATION SAMPLES COLLECTED: YES  NO

9. CASING: Depth Inside Dia. Wall thick. type or weight/ft.

Depth	Inside Dia.	Wall thick.	type
From <u>0</u> to <u>5.44</u> ft	<u>2"</u>	<u>Sch 40</u>	<u>PVC</u>

10. GROUT: Depth Material Method

From 0 to 2.27 ft Sand-cement (2:1) poured

11. SCREEN: Depth Dia. Type & Opening

From 5.44 to 19.92 ft 2" Sch 40 PVC  
.010 slot

12. GRAVEL: Depth Size Material

From 4.42 to 19.92 ft 2.27 4.42 Silica Sand  
Bentonite

13. WATER ZONES (depth): 4.8-19.92' (TOC)

14. STATIC WATER LEVEL: 4.8 ft. above/below top of casing  
 Casing is 2.5 ft. above land surface ELEV: 100.03'

15. YIELD (gpm): 8.0 METHOD OF TESTING: PUMPED

16. PUMPING WATER LEVEL: 5.0 ft. after 3/4 hours at 8.0 gpm.

17. CHLORINATION: Type NA Amount \_\_\_\_\_

18. WATER QUALITY: POOR TEMPERATURE (°F) 66

19. PERMANENT PUMP: Date Installed NA  
 Type \_\_\_\_\_ Capacity \_\_\_\_\_ (gpm) HP \_\_\_\_\_  
 Make \_\_\_\_\_ Intake Depth \_\_\_\_\_  
 Airline Depth \_\_\_\_\_

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENTS REQUIREMENTS AND RECOMMENDATIONS? yes

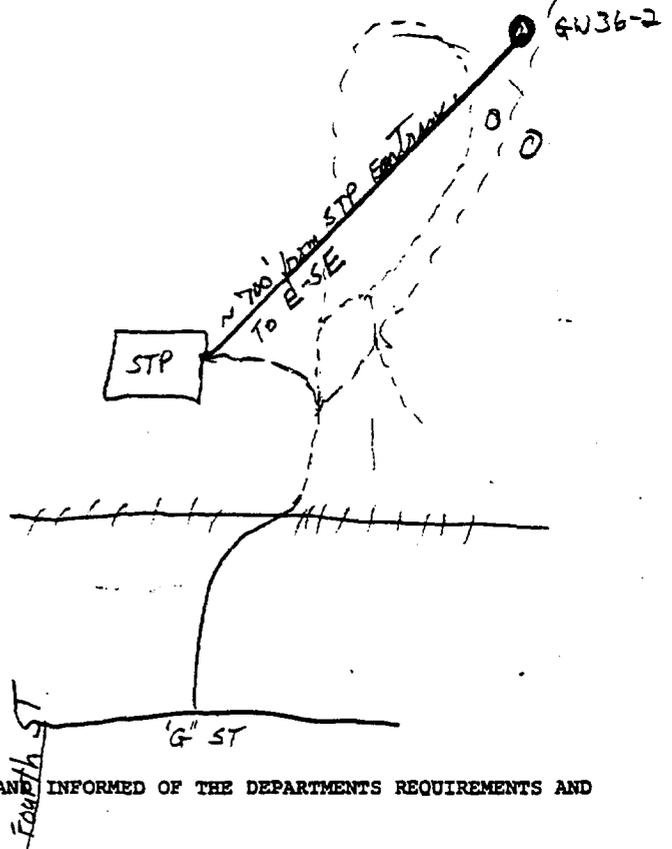
21. REMARKS

I do hereby certify that this well was constructed in accordance with N.C. Well Construction Regulations and Standards and that this well record is true and exact.

RJ Kniela November 12-18-84  
 SIGNATURE OF CONTRACTOR OF AGENT DATE

If additional space is needed, use back of form

LOCATION SKETCH (Show distance to numbered roads, or other map reference points)



1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: JACKSONVILLE County: ON SLOW  
"G" STREET, CAMP LEJEUNE Quadrangle No. JACKSONVILLE SOUTH  
(Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL, MARINE CORPS BASE

DRILLING LOG GW36-3

3. ADDRESS: OFFICE OF ACS FACILITIES, CAMP LEJEUNE N.C.

4. TOPOGRAPHY: draw, valley, slope, hilltop, flat (circle one) 28540

DEPTH FROM TO FORMATION DESCRIPTION (USCS Classification)

5. USE OF WELL: H<sub>2</sub>O Sampling DATE: 7-31-84

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO

0-1.5 ML-CL

7. TOTAL DEPTH: 18.79 RIG TYPE OR METHOD: H.S.A.

1.5-6.25 CL, SL

8. FORMATION SAMPLES COLLECTED: YES  NO

6.25-16.5 SM

9. CASING: Depth Inside Dia. Wall thick. type or weight/ft.

20.-21.5 CL-ML

From 0 to 4.31 ft 2" S&W 40 PVC

10. GROUT: Depth Material Method

From 0 to 1.84 ft Sand-Cement (2:1) poored

If additional space is needed, use back of form

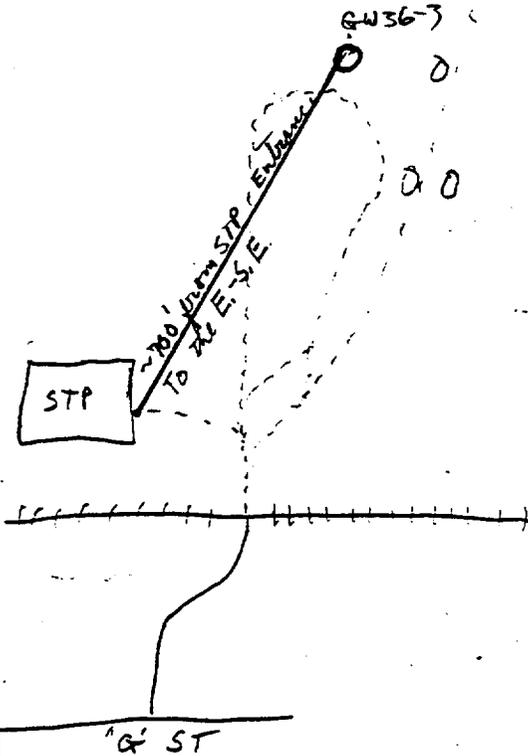
11. SCREEN: Depth Dia. Type & Opening

From 4.31 to 18.79 ft 2" S&W 40 PVC  
.010 slot

LOCATION SKETCH (Show distance to numbered roads, or other map reference points)

12. GRAVEL: Depth Size Material

From 2.92 to 18.79 ft 1.84 2.92 Silica Sand  
Bentonite



13. WATER ZONES (depth):

4.9 - 18.79' (TDC)

14. STATIC WATER LEVEL: 4.9 ft. above/below top of casing

Casing is 2.5 ft. above land surface ELEV: 100.17'

15. YIELD (gpm): 8 METHOD OF TESTING: PUMPED

16. PUMPING WATER LEVEL: 4.9 ft.

after 3/4 hours at 8 gpm.

17. CHLORINATION: Type NA Amount

18. WATER QUALITY: FAIR TEMPERATURE (°F) 65

19. PERMANENT PUMP: Date Installed NA

Type Capacity (gpm) HP

Make Intake Depth

Airline Depth

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENTS REQUIREMENTS AND RECOMMENDATIONS? yes

21. REMARKS

I do hereby certify that this well was constructed in accordance with N.C. Well Construction Regulations and Standards and that this well record is true and exact.

R. K. Moulton 12-18-84  
SIGNATURE OF CONTRACTOR OR AGENT DATE

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: JACKSONVILLE County: ONSCOW  
G STREET, CAMP LEJEUNE Quadrangle No. JACKSONVILLE SOUTH  
 (Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL MARINE CORP BASE

DRILLING LOG GW36-4

3. ADDRESS: OFFICE OF ACS FACILITIES, CAMP LEJEUNE N.C.

4. TOPOGRAPHY: draw, valley, slope, hilltop, flat (circle one)

DEPTH FROM	TO	FORMATION DESCRIPTION (USCS Classification)
0-6.0	SM	
6.0-7.5	SM-SC	
7.5-10.5	SM	
13.5-14.0	SW	
14.-15.	SM-SC	
17.5-20.	SM	

5. USE OF WELL: H<sub>2</sub>O Sampling DATE: 7-31-84

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO

7. TOTAL DEPTH: 19.67 RIG TYPE OR METHOD: H.S.A.

8. FORMATION SAMPLES COLLECTED: YES  NO

9. CASING: Depth Inside Dia. Wall thick. or weight/ft. type

From 0 to 5.2 ft 2" Sch 40 PVC

10. GROUT: Depth Material Method

From 0 to 4.21 ft sand-cement (2:1) poured

11. SCREEN: Depth Dia. Type & Opening

From 5.2 to 19.67 ft 2" Sch 40 PVC

12. GRAVEL: Depth Size Material

From 4.21 to 19.67 ft 3/21 4/21 Silica Sand  
Bentonite

13. WATER ZONES (depth):

5.7 - 19.67' (TOC)

14. STATIC WATER LEVEL: 5.7 ft. above top of casing below

Casing is 25 ft. above land surface ELEV: 105.65

15. YIELD (gpm): 4.5 METHOD OF TESTING: PUMPED

16. PUMPING WATER LEVEL: 6.25 ft.

after 1 hour at 4.5 gpm.

17. CHLORINATION: Type NA Amount

18. WATER QUALITY: FAIR TEMPERATURE (°F) 68

19. PERMANENT PUMP: Date Installed NA

Type Capacity (gpm) HP

Make Intake Depth

Airline Depth

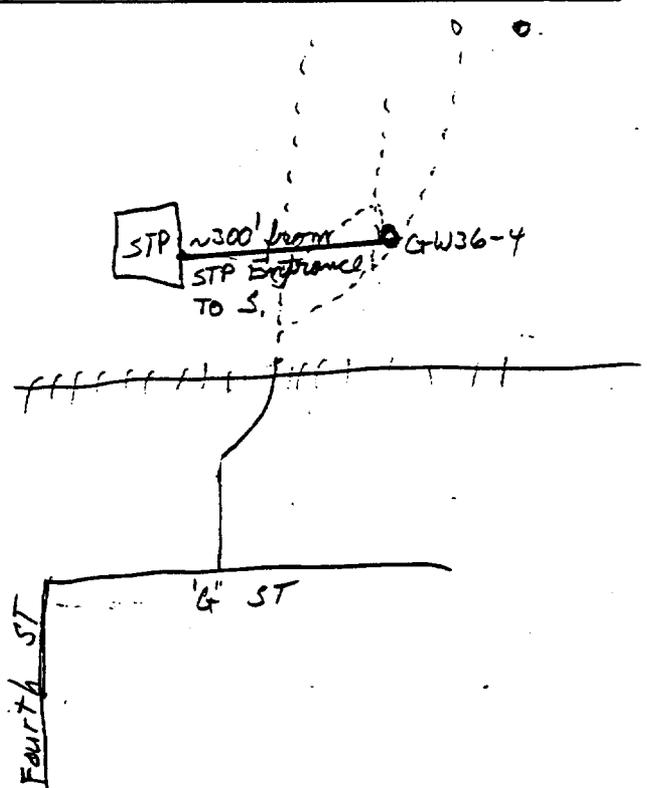
20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENT'S REQUIREMENTS AND RECOMMENDATIONS? yes

21. REMARKS

I do hereby certify that this well was constructed in accordance with N.C. Well Construction Regulations and Standards and that this well record is true and exact.

R. K. Mombene 12-18-84  
 SIGNATURE OF CONTRACTOR OR AGENT DATE

LOCATION SKETCH  
 (Show distance to numbered roads, or other map reference points)



NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT  
WELL RECORD

DIVISION OF ENVIRONMENTAL MANAGEMENT  
P. O. Box 27687 - RALEIGH, N.C. 27611 919-733-2020

DRILLING CONTRACTOR STS CONSULTING, LTD REG. NO. 191 WELL CONSTRUCTION PERMIT NO. \_\_\_\_\_

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: JACKSONVILLE County: DUNSTON  
US 17 CAMP LEJOURNE Quadrangle No. JACKSONVILLE SOUTH  
(Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL, MARINE CORP BASE

DRILLING LOG G-441-1

3. ADDRESS: OFFICE OF A/S FACILITIES, CAMP LEJOURNE N.C.

4. TOPOGRAPHY: draw, valley, slope, hilltop (circle one) 2 PS 40

DEPTH		FORMATION DESCRIPTION (USCS Classification)
FROM	TO	

5. USE OF WELL: H<sub>2</sub>O Sampling DATE: 8-1-84

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO

7. TOTAL DEPTH: 20.17 RIG TYPE OR METHOD: H.S.A.

8. FORMATION SAMPLES COLLECTED: YES  NO

9. CASING: Depth Inside Dia. Wall thick. type or weight/ft.

From 0 to 6.7 ft 2" Sch 40 PVC

10. GROUT: Depth Material Method

From 0 to 37 ft Sand Cement (2:1) poured

11. SCREEN: Depth Dia. Type & Opening

From 6.7 to 20.17 ft 2" Sch 40 PVC  
.010 Slot

12. GRAVEL: Depth Size Material

From 4.7 to 20.17 ft 3/4" Silica Sand  
3.7 4.7 Bentonite

13. WATER ZONES (depth): 7.0 - 20.17 (TCC)

14. STATIC WATER LEVEL: 7.0 ft. above top of casing  
Casing is 2.5 ft. above land surface ELEV: 103.55'

15. YIELD (gpm): 5 METHOD OF TESTING: PUMPED

16. PUMPING WATER LEVEL: 7.4 ft. after 65 hours at 5 gpm.

17. CHLORINATION: Type NA Amount -

18. WATER QUALITY: GOOD TEMPERATURE (°F) 70

19. PERMANENT PUMP: Date Installed NA

Type \_\_\_\_\_ Capacity \_\_\_\_\_ (gpm) HP \_\_\_\_\_

Make \_\_\_\_\_ Intake Depth \_\_\_\_\_

Airline Depth \_\_\_\_\_

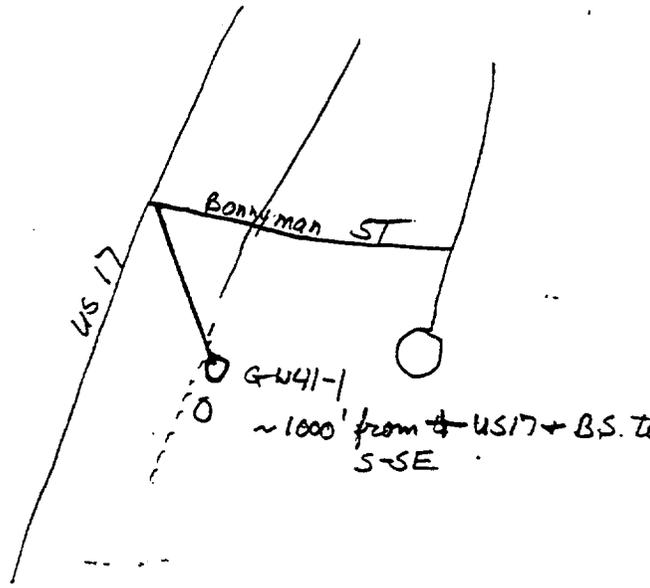
20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENTS REQUIREMENTS AND RECOMMENDATIONS? NO

21. REMARKS

I do hereby certify that this well was constructed in accordance with N.C. Well Construction Regulations and Standards and that this well record is true and exact.

R. N. Mombene 12-18-84  
SIGNATURE OF CONTRACTOR OR AGENT DATE

LOCATION SKETCH  
(Show distance to numbered roads, or other map reference points)



NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT  
WELL RECORD DIVISION OF ENVIRONMENTAL MANAGEMENT

P. O. Box 27687 - RALEIGH, N.C. 27611 919-733-2020

DRILLING CONTRACTOR STS CONSULTANTS, LTD REG. NO. 191 WELL CONSTRUCTION PERMIT NO. \_\_\_\_\_

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: JACKSONVILLE County: ONSCOW  
US 17, CAMPLETON Quadrangle No. JACKSONVILLE SOUTH  
(Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL, MARINE CORP BASE

DRILLING LOG G441-1R

3. ADDRESS: OFFICE OF AC/S FACILITIES, CAMP LEJUNE, P.C.

4. TOPOGRAPHY: draw, valley, slope, hilltop (flat) (circle one) 28540

DEPTH		FORMATION DESCRIPTION (USCS Classification)
FROM	TO	

5. USE OF WELL: H<sub>2</sub>O Sampling DATE: 7-16-84

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO

0-10.0 SM

7. TOTAL DEPTH: 18.04 RIG TYPE OR METHOD: H.S.A.

10-10.5 SM-SC

8. FORMATION SAMPLES COLLECTED: YES  NO

13.5-15. SM

9. CASING: Depth Inside Dia. Wall thick. type

20.-21.5 SM

From 0 to 35.6 ft 2" Sch 40 PVC

10. GROUT: Depth Material Method

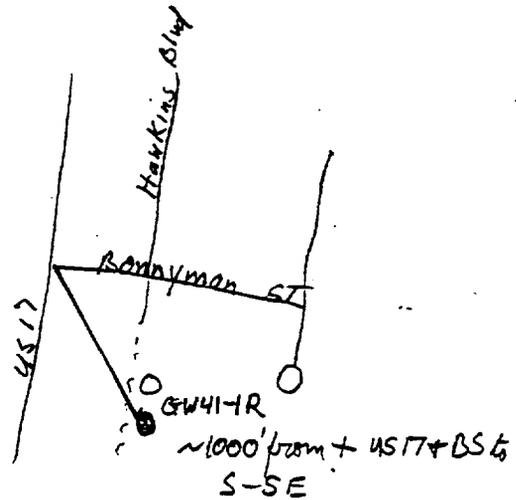
From 0 to 1.42 ft sand-cement (2:1) poured

If additional space is needed, use back of form

11. SCREEN: Depth Dia. Type & Opening

From 35.6 to 180.4 ft 2" Sch 40 PVC  
.010 slot

LOCATION SKETCH  
(Show distance to numbered roads, or other map reference points)



12. GRAVEL: Depth Size Material

From 2.92 to 180.4 ft 1.42 2.92 Silica Sand  
 Bentonite

13. WATER ZONES (depth): 9.12 - 18.04' (TOL)

14. STATIC WATER LEVEL: 9.12 ft. above/below top of casing

Casing is 2.5 ft. above land surface ELEV: 103.58'

15. YIELD (gpm): 7.5 METHOD OF TESTING: PUMPED

16. PUMPING WATER LEVEL: 9.2 ft.

after 1 hours at 7.5 gpm.

17. CHLORINATION: Type NA Amount \_\_\_\_\_

18. WATER QUALITY: GOOD TEMPERATURE (°F) 70

19. PERMANENT PUMP: Date Installed NA

Type \_\_\_\_\_ Capacity \_\_\_\_\_ (gpm) HP \_\_\_\_\_

Make \_\_\_\_\_ Intake Depth \_\_\_\_\_

Airline Depth \_\_\_\_\_

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENT'S REQUIREMENTS AND RECOMMENDATIONS? yes

21. REMARKS \_\_\_\_\_

I do hereby certify that this well was constructed in accordance with N.C. Well Construction Regulations and Standards and that this well record is true and exact.

R. H. Moberger 12-18-84  
SIGNATURE OF CONTRACTOR OR AGENT DATE



1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: JACKSONVILLE County: ONSLOW
US 17, CAMP LETOVNE Quadrangle No: JACKSONVILLE SOUTH
(Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL, MARINE BASE

DRILLING LOG GW41-3

3. ADDRESS: OFFICE OF ACS FACILITIES, CAMP LETOVNE N.C.

DEPTH FROM TO

FORMATION DESCRIPTION

4. TOPOGRAPHY: draw, valley, slope, hilltop, flat (circle one)

(USCS Classification)

5. USE OF WELL: H2O Sampling DATE: 7-16-84

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO

0-8.0 SM

7. TOTAL DEPTH: 19.31 RIG TYPE OR METHOD: H.S.A.

8.0-9.25 SC-SM

8. FORMATION SAMPLES COLLECTED: YES NO

9.25-10.5 ML

9. CASING: Depth Inside Dia. Wall thick. type or weight/ft.

15-16.5 SM

From 0 to 4.83 ft 2" Sch 40 PVC

20-21.5 SM

10. GROUT: Depth Material Method

From 0 to 2.67 ft sand cement (2:1) poured

If additional space is needed, use back of form

11. SCREEN: Depth Dia. Type & Opening

From 4.83 to 19.31 ft 2" Sch 40 PVC .010 slot

LOCATION SKETCH

(Show distance to numbered roads, or other map reference points)

12. GRAVEL: Depth Size Material

From 3.83 to 19.31 ft Silica Sand
2.67 3.83 Bentonite

13. WATER ZONES (depth): 12.7 - 19.31 (100)

14. STATIC WATER LEVEL: 12.7 ft. above/below top of casing

Casing is 2.5 ft. above land surface ELEV: 100.0'

15. YIELD (gpm): 8 METHOD OF TESTING: PUMPED

16. PUMPING WATER LEVEL: 12.8 ft.

after 3/4 hours at 8 gpm.

17. CHLORINATION: Type NA Amount

18. WATER QUALITY: GOOD TEMPERATURE (°F) 72

19. PERMANENT PUMP: Date Installed NA

Type Capacity (gpm) HP

Make Intake Depth

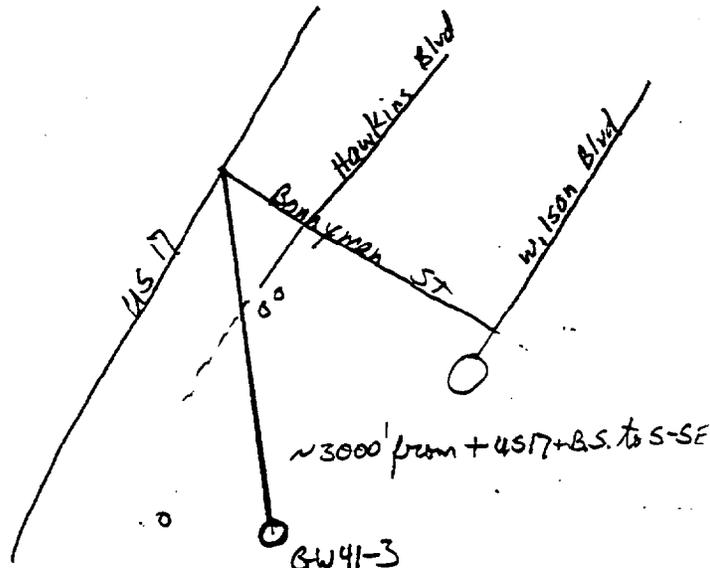
Airline Depth

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENTS REQUIREMENTS AND RECOMMENDATIONS? NA

21. REMARKS

I do hereby certify that this well was constructed in accordance with N.C. Well Construction Regulations and Standards and that this well record is true and exact.

Signature of Contractor of Agent: [Signature] DATE: 12-18-84



1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: JACKSONVILLE County: ONSLOW  
US 17, CAMP LEJEUNE Quadrangle No. JACKSONVILLE SOUTH  
 (Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL, MARINE CORP BASE

DRILLING LOG GW41-4

3. ADDRESS: OFFICE OF AC/F FACILITIES, CAMP LEJEUNE, NC.

4. TOPOGRAPHY: draw, valley, slope, hilltop, flat (circle one)

DEPTH FROM TO FORMATION DESCRIPTION (USCS Classification)

5. USE OF WELL: H<sub>2</sub>O Sampling DATE: 7-17-84

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO

7. TOTAL DEPTH: 19.67 RIG TYPE OR METHOD: H.S.A.

8. FORMATION SAMPLES COLLECTED: YES  NO

9. CASING: Depth Inside Dia. Wall thick. type or weight/ft.

From 0 to 5.19 ft 2" Sch 40 PVC

0-7.25	SM
7.25-7.5	OL
7.5-10.5	SM
15.-16.5	SC-SM
20.-21.5	SC-SM

10. GROUT: Depth Material Method

From 0 to 2.67 ft Sand-Cement (2:1) pooured

11. SCREEN: Depth Dia. Type & Opening

From 5.19 to 19.67 ft 2" Sch 40 PVC  
.010 slot

If additional space is needed, use back of form

12. GRAVEL: Depth Size Material

From 3.75 to 19.67 ft 2.67 3.75 Silica Sand  
Bentonite

13. WATER ZONES (depth): 7.09 - 19.67 (TOC)

14. STATIC WATER LEVEL: 7.09 ft. above/below top of casing

Casing is 2.5 ft. above land surface ELEV: 92.82'

15. YIELD (gpm): 4 METHOD OF TESTING: PUMPED

16. PUMPING WATER LEVEL: 8.60 ft.

after 1.75 hours at 4 gpm.

17. CHLORINATION: Type NA Amount -

18. WATER QUALITY: FAIR TEMPERATURE (°F) 71

19. PERMANENT PUMP: Date Installed NA

Type Capacity (gpm) HP

Make Intake Depth

Airline Depth

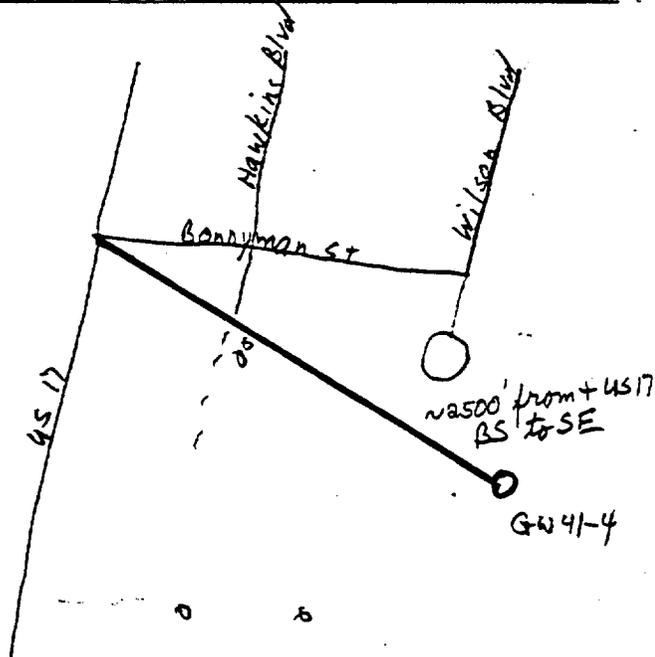
20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENTS REQUIREMENTS AND RECOMMENDATIONS? NA

21. REMARKS

I do hereby certify that this well was constructed in accordance with N.C. Well Construction Regulations and Standards and that this well record is true and exact.

RJ Kunk member 12-8-84  
 SIGNATURE OF CONTRACTOR OR AGENT DATE

LOCATION SKETCH (Show distance to numbered roads, or other map reference points)



1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: JACKSONVILLE County: OPSWO  
CAMPBELL ST. CAMP LEJEUNE Quadrangle No. JACKSONVILLE SOUTH  
 (Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL, MARINE CORP BASE

DRILLING LOG G445-1

3. ADDRESS: OFFICE OF A/C'S FACILITIES, CAMP LEJEUNE N.C.

4. TOPOGRAPHY: draw, valley, slope, hilltop, (flat) circle one)

DEPTH FROM	TO	FORMATION DESCRIPTION (USCS Classification)
0-1.5		SM
1.5-3.0		SM-SC
3.0-16.5		ML
20-26.5		SM

5. USE OF WELL: H<sub>2</sub>O Sampling DATE: 8-1-84

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO

7. TOTAL DEPTH: 19.47 RIG TYPE OR METHOD: H.S.A.

8. FORMATION SAMPLES COLLECTED: YES  NO

9. CASING: Depth Inside Dia. Wall thick. or weight/ft. type  
 From 0 to 50.1 ft 2" Sch 40 PVC

10. GROUT: Depth Material Method  
 From 0 to 30 ft sand cement (2:1) poured

If additional space is needed, use back of form

11. SCREEN: Depth Dia. Type & Opening  
 From 50.1 to 19.47 ft 2" Sch 40 PVC  
.010 slot

LOCATION SKETCH (Show distance to numbered roads, or other map reference points)

12. GRAVEL: Depth Size Material  
 From 3.5 to 19.47 ft 2.5 3.5 Silica Sand  
Bentonite

13. WATER ZONES (depth): 3 - 19.47' (70C)

14. STATIC WATER LEVEL: 3.0 ft. above/below top of casing  
 Casing is 2.5 ft. above land surface ELEV: 98.99

15. YIELD (gpm): 4 METHOD OF TESTING: PUMPED

16. PUMPING WATER LEVEL: 4.0 ft.  
 after 1 hours at 4 gpm.

17. CHLORINATION: Type NA Amount \_\_\_\_\_

18. WATER QUALITY: FAIR TEMPERATURE (°F) 68

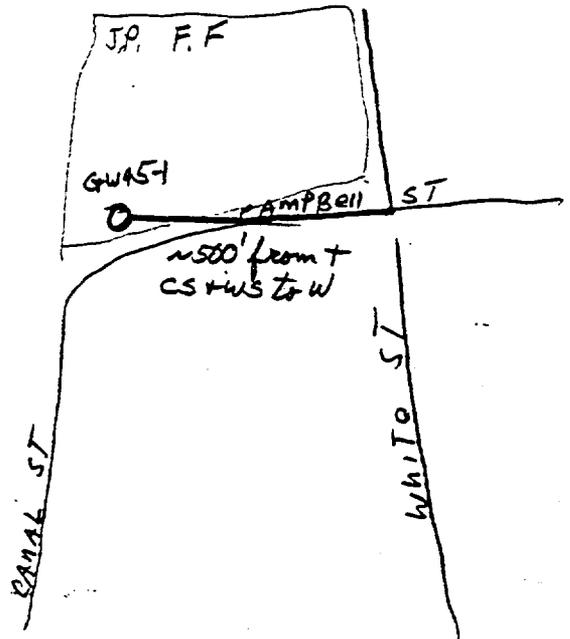
19. PERMANENT PUMP: Date Installed NA  
 Type \_\_\_\_\_ Capacity \_\_\_\_\_ (gpm) HP \_\_\_\_\_  
 Make \_\_\_\_\_ Intake Depth \_\_\_\_\_  
 Airline Depth \_\_\_\_\_

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENT'S REQUIREMENTS AND RECOMMENDATIONS? yes

21. REMARKS

I do hereby certify that this well was constructed in accordance with N.C. Well Construction Regulations and Standards and that this well record is true and exact.

M. W. Mombert 12-18-84  
 SIGNATURE OF CONTRACTOR OR AGENT DATE



1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: JACKSONVILLE County: ONSLOW  
CAMPBELL ST. CAMP LOSEVNE Quadrangle No. JACKSONVILLE SOUTH  
 (Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL, MARINE CORP BASE DRILLING LOG GW45-2

3. ADDRESS: OFFICE OF AC/S FACILITIES, CAMP LOSEVNE  
 4. TOPOGRAPHY: draw, valley, slope, hilltop, flat (circle one) DEPTH FROM 28540 TO FORMATION DESCRIPTION (USCS Classification)

5. USE OF WELL: H<sub>2</sub>O Sampling DATE: 8-1-84

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO 0-4.0 SM

7. TOTAL DEPTH: 18.47 RIG TYPE OR METHOD: H.S.A. 4.0-10.5 ML

8. FORMATION SAMPLES COLLECTED: YES  NO 15.-16.0 SM-SC

9. CASING: Depth Inside Dia. Wall thick. type or weight/ft. 16.-16.5 SM

From 0 to 4.01 ft 2" Sch 40 PVC 20-21.5 SM

10. GROUT: Depth Material Method  
 From 0 to 2.00 ft Sand-Cement (2:1) poured

If additional space is needed, use back of form

11. SCREEN: Depth Dia. Type & Opening  
 From 4.01 to 18.47 ft 2" Sch 40 PVC  
.010 slot

LOCATION SKETCH (Show distance to numbered roads, or other map reference points)

12. GRAVEL: Depth Size Material  
 From 3.01 to 18.47 ft 3/4 Silica Sand

2.00 3.01 Bentonite

13. WATER ZONES (depth): 3.4 - 18.47 (TOC)

14. STATIC WATER LEVEL: 3.4 ft. above top of casing  
 Casing is 2.5 ft. above land surface ELEV: 100.61

15. YIELD (gpm): 4.5 METHOD OF TESTING: PUMPED

16. PUMPING WATER LEVEL: 4.8 ft.  
 after 3/4 hours at 4.5 gpm.

17. CHLORINATION: Type NA Amount -

18. WATER QUALITY: POOR TEMPERATURE (°F) 73

19. PERMANENT PUMP: Date Installed NA

Type \_\_\_\_\_ Capacity \_\_\_\_\_ (gpm) HP \_\_\_\_\_

Make \_\_\_\_\_ Intake Depth \_\_\_\_\_

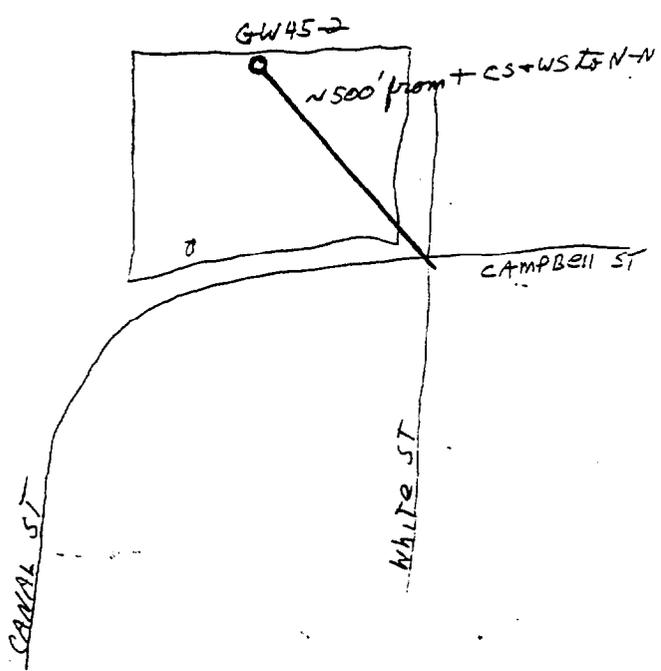
Airline Depth \_\_\_\_\_

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENTS REQUIREMENTS AND RECOMMENDATIONS? yes

21. REMARKS \_\_\_\_\_

I do hereby certify that this well was constructed in accordance with N.C. Well Construction Regulations and Standards and that this well record is true and exact.

D. N. M. Mombberger 12-18-84  
 SIGNATURE OF CONTRACTOR OR AGENT DATE



DOC NO: CLEJ-00075-3.13-11/21/85

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT

WELL RECORD

DIVISION OF ENVIRONMENTAL MANAGEMENT

P. O. Box 27687 - RALEIGH, N.C. 27611 919-733-2020

DRILLING CONTRACTOR STS CONSULTANTS CH REG. NO. 191 WELL CONSTRUCTION PERMIT NO.

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: JACKSONVILLE County: ONSLOW
CAMPBELL RD., CAMP LEJEUNE Quadrangle No. JACKSONVILLE SOUTH
(Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL MARINE CORP BASE

DRILLING LOG GW45-3

3. ADDRESS: OFFICE OF AC/S FACILITIES, CAMPLETUNG NC DEPTH 28540 FROM TO

4. TOPOGRAPHY: draw, valley, slope, hilltop, flat (circle one) FORMATION DESCRIPTION (USCS Classification)

5. USE OF WELL: H2O Sampling DATE: 8-1-84

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO 0-3.25 CL

7. TOTAL DEPTH: 19.04 RIG TYPE OR METHOD: H.S.A. 3.25-4.5 SM

8. FORMATION SAMPLES COLLECTED: YES [X] NO 4.5-7.5 CL

9. CASING: Depth Inside Wall thick. type 7.5-9.5 CH

From 0 to 4.9 ft 2" Sch 40 PVC 9.5-21.5 SM

10. GROUT: Depth Material Method From 0 to 2.12 ft sand cement (2:1) poured

If additional space is needed, use back of form

11. SCREEN: Depth Dia. Type & Opening From 4.9 to 19.04 ft 2" Sch 40 PVC .010 slot

LOCATION SKETCH (Show distance to numbered roads, or other map reference points)

12. GRAVEL: Depth Size Material From 3.5 to 19.04 ft Silica Sand Bentonite 2.42 3.5

13. WATER ZONES (depth): 5.6 - 19.04' (TO)

14. STATIC WATER LEVEL: 5.6 ft. above/below top of casing Casing is 2.5 ft. above land surface ELEV: 100.0'

15. YIELD (gpm): 4.5 METHOD OF TESTING: PUMPED

16. PUMPING WATER LEVEL: 6.3 ft. after 1 hour at 4.5 gpm.

17. CHLORINATION: Type NA Amount

18. WATER QUALITY: GOOD TEMPERATURE (°F) 77

19. PERMANENT PUMP: Date Installed NA

Type Capacity (gpm) HP

Make Intake Depth

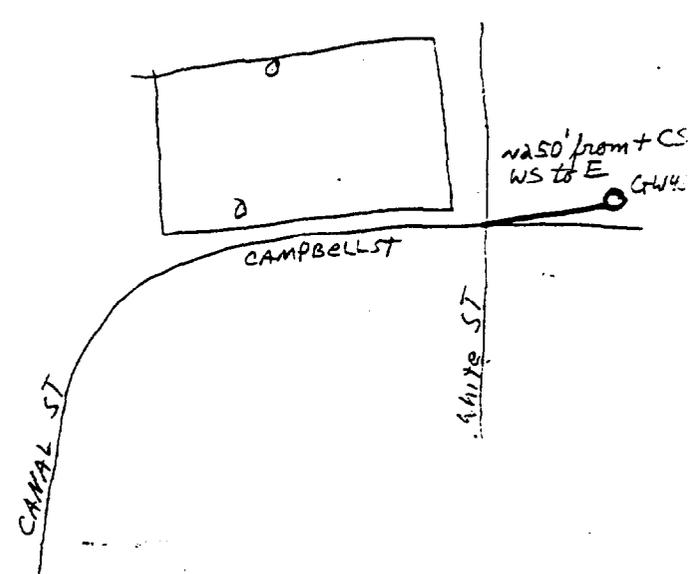
Airline Depth

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENT'S REQUIREMENTS AND RECOMMENDATIONS? yes

21. REMARKS

I do hereby certify that this well was constructed in accordance with N.C. Well Construction Regulations and Standards and that this well record is true and exact.

R. King Mowbray 12-18-84 SIGNATURE OF CONTRACTOR OR AGENT DATE



NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT  
WELL RECORD DIVISION OF ENVIRONMENTAL MANAGEMENT

P. O. Box 27687 - RALEIGH, N.C. 27611 919-733-2020

DRILLING CONTRACTOR STS CONSULTANTS, LTD REG. NO. 191 WELL CONSTRUCTION PERMIT NO. \_\_\_\_\_

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: JACKSONVILLE County: ONSCOW  
PERIMETER RD, CAMP LETOVNE Quadrangle No. JACKSONVILLE SOUTH  
(Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL, MARINE CORP BASE

DRILLING LOG GWS4-1

3. ADDRESS: OFFICE OF ACS FACILITIES, CAMP LETOVNE, N.C.

DEPTH  
FROM TO

FORMATION DESCRIPTION

4. TOPOGRAPHY: draw, valley, lope hilltop, flat (circle one)

(USCS Classification)

5. USE OF WELL: HAZ Sampling DATE: 7-16-84

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO

0-9.0 SM

7. TOTAL DEPTH: 19.37 RIG TYPE OR METHOD: H.S.A.

9.0-10.0 SP

8. FORMATION SAMPLES COLLECTED: YES  NO

10.0-20.0 SM

9. CASING: Depth Inside Wall thick. type  
Dia. or weight/ft.

From 0 to 4.91 ft 2" Sch 40 PVC

10. GROUT: Depth Material Method

From 0 to 2.91 ft sand-cement (2:1) pumped

If additional space is needed, use back of form

11. SCREEN: Depth Dia. Type & Opening

From 4.91 to 19.37 ft 2" Sch 40 PVC  
.010 slot

LOCATION SKETCH  
(Show distance to numbered roads, or other map reference points)

12. GRAVEL: Depth Size Material

From 3.91 to 19.37 ft  
2.91 3.91 Silica Sand  
Bentonite

13. WATER ZONES (depth): 9.0 - 19.37 (TOC)

14. STATIC WATER LEVEL: 9.0 ft. above top of casing  
below

Casing is 2.5 ft. above land surface ELEV: \_\_\_\_\_

15. YIELD (gpm): 5 METHOD OF TESTING: PUMPED

16. PUMPING WATER LEVEL: 10.0 ft.

after 1 hours at 5 gpm.

17. CHLORINATION: Type NA Amount \_\_\_\_\_

18. WATER QUALITY: GOOD TEMPERATURE (°F) 72

19. PERMANENT PUMP: Date Installed NA

Type \_\_\_\_\_ Capacity \_\_\_\_\_ (gpm) HP \_\_\_\_\_

Make \_\_\_\_\_ Intake Depth \_\_\_\_\_

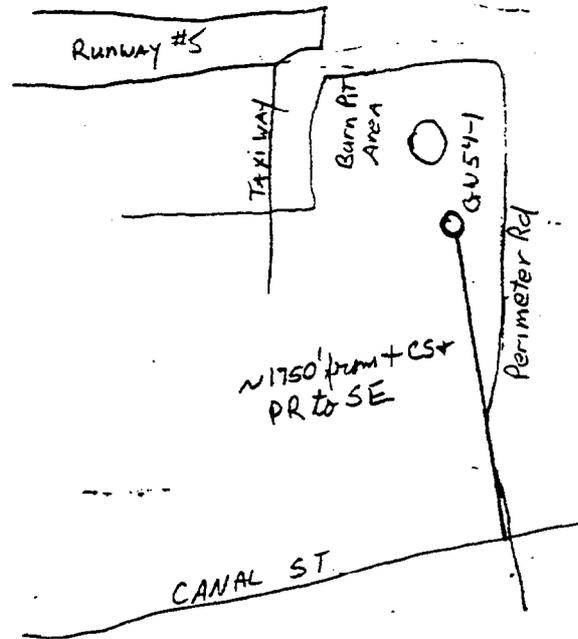
Airline Depth \_\_\_\_\_

20. HAS THE OWNER PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENTS REQUIREMENTS AND RECOMMENDATIONS? Yes

21. REMARKS

I do hereby certify that this well was constructed in accordance with N.C. Well Construction Regulations and Standards and that this well record is true and exact.

M. Keith Tomber 12-18-84  
SIGNATURE OF CONTRACTOR OR AGENT DATE



NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT  
WELL RECORD DIVISION OF ENVIRONMENTAL MANAGEMENT

DOC No: CLEJ-00075-  
3.13-1/2/85

P. O. Box 27687 - RALEIGH, N.C. 27611 919-733-2020

DRILLING CONTRACTOR STS CONSTRUCTORS Ltd REG. NO. 191 WELL CONSTRUCTION PERMIT NO. \_\_\_\_\_

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: SNEADS FERRY County: ONSCOW  
RANGE RD. CAMP LETSOLLE Quadrangle No: SNEADS FERRY  
(Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL, MARINE CAMP BASE

DRILLING LOG GW68-1

3. ADDRESS: OFFICE OF A&S FACILITIES, CAMP LETSOLLE N.C.

4. TOPOGRAPHY: draw, valley, slope, hilltop, flat (circle one)

DEPTH FROM TO FORMATION DESCRIPTION  
(USCS Classification)

5. USE OF WELL: H<sub>2</sub>O Sampling DATE: 8-2-84

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO

7. TOTAL DEPTH: 20.36 RIG TYPE OR METHOD: H.S.A.

8. FORMATION SAMPLES COLLECTED: YES  NO

9. CASING: Depth Inside Dia. Wall thick. type or weight/ft.

From 0 to 5.88 ft 2" Sch 40 PVC

10. GROUT: Depth Material Method

From 0 to ft Sand-cement (2:1) poored

11. SCREEN: Depth Dia. Type & Opening

From 5.88 to 20.36 ft 2" Sch 40 PVC  
.010 slot

12. GRAVEL: Depth Size Material

From 4.29 to 20.36 ft 2.63 4.29 Silica Sand  
Bentonite

13. WATER ZONES (depth): 2.8 - 20.36' (TOC)

14. STATIC WATER LEVEL: 2.8 ft. above top of casing below  
Casing is 2.5 ft. above land surface ELEV: 97.37'

15. YIELD (gpm): 7.5 METHOD OF TESTING: PUMPED

16. PUMPING WATER LEVEL: 2.9 ft. after 3/4 hours at 7.5 gpm.

17. CHLORINATION: Type NA Amount \_\_\_\_\_

18. WATER QUALITY: GOOD TEMPERATURE (°F) 75

19. PERMANENT PUMP: Date Installed NA

Type \_\_\_\_\_ Capacity \_\_\_\_\_ (gpm) HP \_\_\_\_\_

Make \_\_\_\_\_ Intake Depth \_\_\_\_\_

Airline Depth \_\_\_\_\_

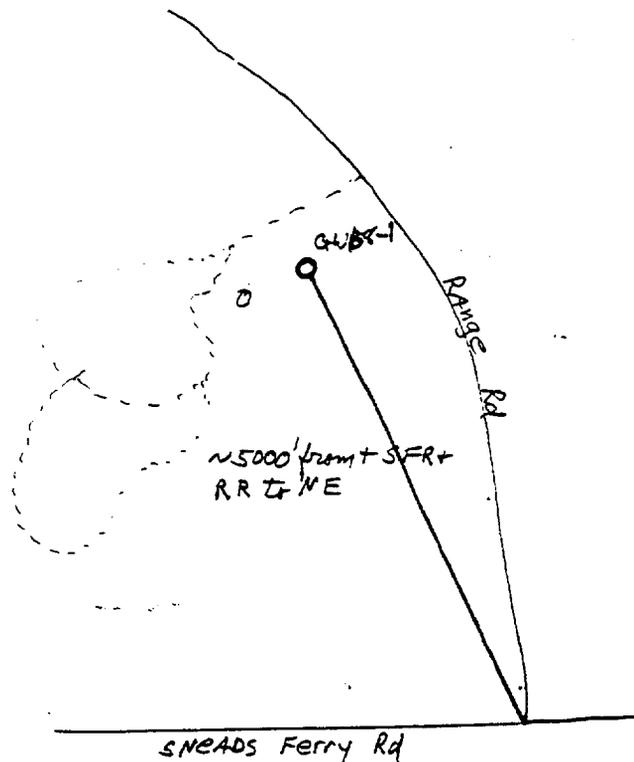
20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENT'S REQUIREMENTS AND RECOMMENDATIONS? Yes

21. REMARKS \_\_\_\_\_

I do hereby certify that this well was constructed in accordance with N.C. Well Construction Regulations and Standards and that this well record is true and exact.

[Signature] 12-12-84  
SIGNATURE OF CONTRACTOR OF AGENT DATE

LOCATION SKETCH (Show distance to numbered roads, or other map reference points)



NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT  
WELL RECORD

DOC NO: CLEJ-

DIVISION OF ENVIRONMENTAL MANAGEMENT

00075-3.13-1/21/85

P. O. Box 27687 - RALEIGH, N.C. 27611 919-733-2020

DRILLING CONTRACTOR STC CONSULTANTS, LTD REG. NO. 191

WELL CONSTRUCTION PERMIT NO.

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: SNEADS FERRY

County: ONSCOW

RANGE RD, CAMP LEVENE  
(Road, Community or Subdivision and Lot No.)

Quadrangle No: SNEADS FERRY

2. OWNER: COMMANDING GENERAL, MARINE CORP BASE

DRILLING LOG GW68-1R

3. ADDRESS: OFFICE OF ACS FACILITIES, CAMP LEVENE, N.C.

DEPTH  
FROM TO

FORMATION DESCRIPTION

4. TOPOGRAPHY: draw, valley, slope, hilltop, flat (circle one)

(USCS Class.)

5. USE OF WELL: H<sub>2</sub>O Sampling DATE: 7-17-84

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO

0-3 SM

7. TOTAL DEPTH: 20.42 RIG TYPE OR METHOD: H.S.A.

3-5.5 SM-SC

8. FORMATION SAMPLES COLLECTED: YES  NO

5.5-7.5 CL

9. CASING: Depth Inside Dia. Wall thick. type or weight/ft.

7.5-26.5 CL

From 0 to 5.94 ft 2" Sch 40 PVC

10. GROUT: Depth Material Method

From 0 to 28.3 ft sand cement (2:1) poured

If additional space is needed, use back of form

11. SCREEN: Depth Dia. Type & Opening

From 5.94 to 20.42 ft 2" Sch 40 PVC  
.010 slot

LOCATION SKETCH

(Show distance to numbered roads, or other map reference points)

12. GRAVEL: Depth Size Material

From 4.63 to 20.42 ft 20# 4.63 Silica Sand  
bentonite

13. WATER ZONES (depth): 8.67 - 20.42' (TOC)

14. STATIC WATER LEVEL: 8.67 ft. above top of casing

Casing is 2.5 ft. above land surface ELEV: 97.83

15. YIELD (gpm): 7.5 METHOD OF TESTING: PUMPED

16. PUMPING WATER LEVEL: 8.9 ft.

after 3 hours at 7.5 gpm.

17. CHLORINATION: Type NA Amount

18. WATER QUALITY: GOOD TEMPERATURE (°F) 78

19. PERMANENT PUMP: Date Installed NA

Type Capacity (gpm) HP

Make Intake Depth

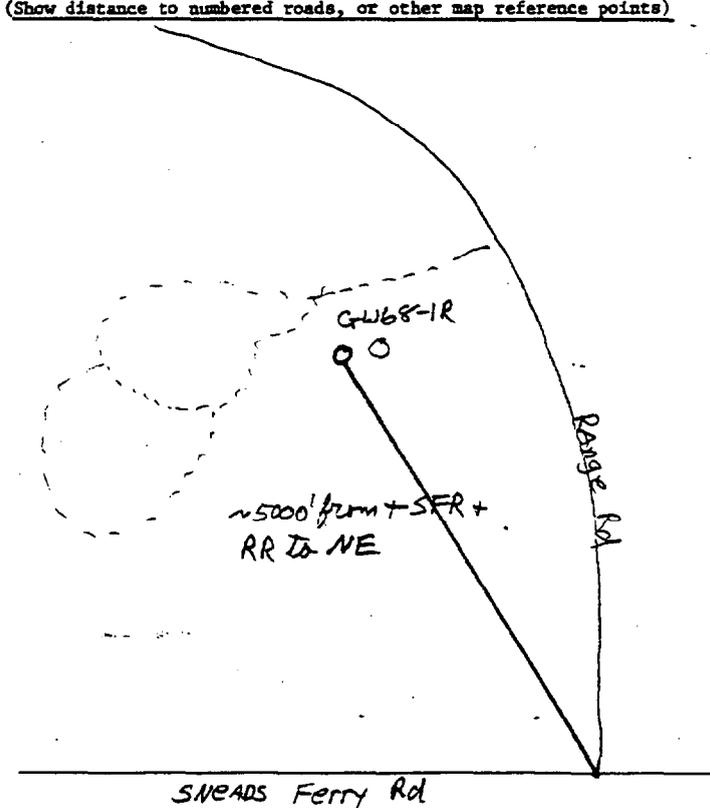
Airline Depth

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENT'S REQUIREMENTS AND RECOMMENDATIONS? MP

21. REMARKS

I do hereby certify that this well was constructed in accordance with N.C. Well Construction Regulations and Standards and that this well record is true and exact.

RJ Lucas-Monberg 12-18-84  
SIGNATURE OF CONTRACTOR OR AGENT DATE



DOC NO: CLEJ-00075-3.13-1/21/85

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT  
WELL RECORD

DIVISION OF ENVIRONMENTAL MANAGEMENT  
P. O. Box 27687 - RALEIGH, N.C. 27611 919-733-2020

DRILLING CONTRACTOR STS CONSULTANTS LTD. REG. NO. 191 WELL CONSTRUCTION PERMIT NO. \_\_\_\_\_

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: SNEADS FERRY County: ON SLOW  
RANGE RD. CAMP LEJEUNE Quadrangle No. SNEADS FERRY  
(Road, Community of Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL MARINE CORPS

DRILLING LOG GW68-2

3. ADDRESS: OFFICE OF AC'S FACILITIES, CAMP LEJEUNE N.C.

4. TOPOGRAPHY: draw, valley, slope, hilltop, flat (circle one) 28590

DEPTH  
FROM TO

FORMATION DESCRIPTION  
(USCS Classification)

5. USE OF WELL: H<sub>2</sub>O Sampling DATE: 9-2-84

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO

0-35 SM

7. TOTAL DEPTH: 21.07 RIG TYPE OR METHOD: H.S.A.

35-10.5 SM-SC

8. FORMATION SAMPLES COLLECTED: YES  NO

15-16.5 SM-SC

9. CASING: Depth Inside Dia. Wall thick. or weight/ft. type

20-21.5 SM

From 0 to 6.61 ft 2" Sch 40 PVC

10. GROUT: Depth Material Method

From 0 to 4.61 ft sand cement (6:1) poured

If additional space is needed, use back of form

11. SCREEN: Depth Dia. Type & Opening

From 6.61 to 21.07 ft 2" Sch 40 PVC  
.010 slot

LOCATION SKETCH  
(Show distance to numbered roads, or other map reference points)

12. GRAVEL: Depth Size Material

From 6.61 to 21.07 ft Silica Sand  
4.61 4.61 Bentonite

13. WATER ZONES (depth): 15.9 - 21.07' (TDC)

14. STATIC WATER LEVEL: 15.9 ft. above/below top of casing  
Casing is 2.5 ft. above land surface ELEV: 69.37'

15. YIELD (gpm): 2 METHOD OF TESTING: PUMPED

16. PUMPING WATER LEVEL: 20 ft.

after 2 hours at 2 gpm.

17. CHLORINATION: Type NA Amount \_\_\_\_\_

18. WATER QUALITY: GOOD TEMPERATURE (°F) 65

19. PERMANENT PUMP: Date Installed NA

Type \_\_\_\_\_ Capacity \_\_\_\_\_ (gpm) HP \_\_\_\_\_

Make \_\_\_\_\_ Intake Depth \_\_\_\_\_

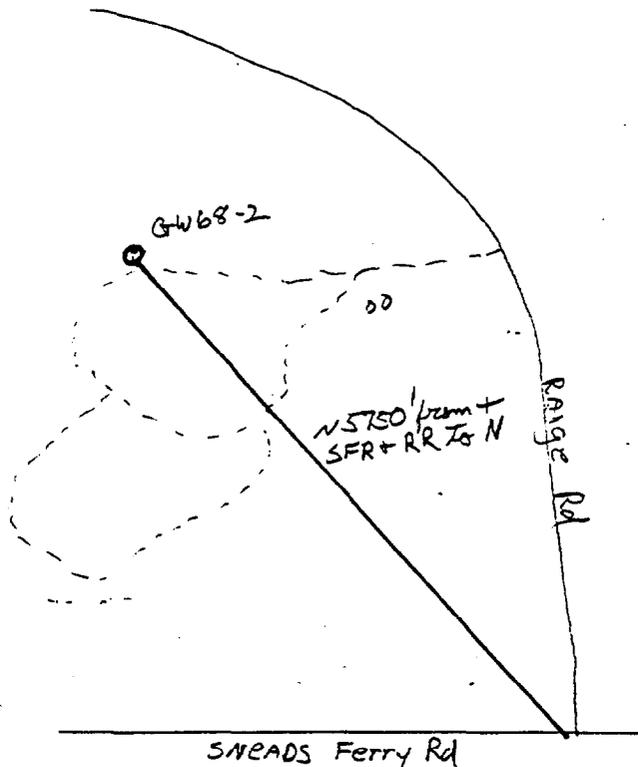
Airline Depth \_\_\_\_\_

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENTS REQUIREMENTS AND RECOMMENDATIONS? yes

21. REMARKS

I do hereby certify that this well was constructed in accordance with N.C. Well Construction Regulations and Standards and that this well record is true and exact.

RJ/Mark Mombasa 12-18-84  
SIGNATURE OF CONTRACTOR OF AGENT DATE



Doc No: CLEJ-00075-3.13-1/21/85

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT  
WELL RECORD

DIVISION OF ENVIRONMENTAL MANAGEMENT  
P. O. Box 27687 - RALEIGH, N.C. 27611 919-733-2020

DRILLING CONTRACTOR STS CONSULTANTS LTD, REG. NO. 191 WELL CONSTRUCTION PERMIT NO. \_\_\_\_\_

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: SNEADS FERRY County: ONSCOW  
RANGE ROAD, CAMP LEJEUNE Quadrangle no. SNEADS FERRY  
(Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL, MARINE CORP BASE

DRILLING LOG GW68-2R

3. ADDRESS: OFFICE OF A&S FACILITIES, CAMP LEJEUNE N.C.

4. TOPOGRAPHY: draw, valley, slope, hilltop, flat (circle one)

DEPTH FROM TO FORMATION DESCRIPTION  
20.94 USCS Class.

5. USE OF WELL: H<sub>2</sub>O Sampling DATE: 7-17-84

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO

7. TOTAL DEPTH: 20.94 RIG TYPE OR METHOD: H.S.A.

8. FORMATION SAMPLES COLLECTED: YES  NO

9. CASING: Depth Inside Dia. Wall thick. or weight/ft. type

From 0 to 6.46 ft 2" S&W 40 PVC

10. GROUT: Depth Material Method

From 0 to 3.83 ft sand-cement (2:1) poURED

11. SCREEN: Depth Dia. Type & Opening

From 6.46 to 20.94 ft 2" S&W 40 PVC  
.010 slot

12. GRAVEL: Depth Size Material

From 5.44 to 20.94 ft 3.83 5.44 Silica Sand  
 Bentonite

13. WATER ZONES (depth): 20.37 - 20.84' (TOC)

14. STATIC WATER LEVEL: 20.37 ft. above/below top of casing

Casing is 25 ft. above land surface ELEV: 69.32

15. YIELD (gpm): 0.5 METHOD OF TESTING: BALLED

16. PUMPING WATER LEVEL: 20.75 ft.

after 2 hours at 0.5 gpm.

17. CHLORINATION: Type NA Amount

18. WATER QUALITY: GOOD TEMPERATURE (°F) 65

19. PERMANENT PUMP: Date Installed NA

Type Capacity (gpm) HP

Make Intake Depth

Airline Depth

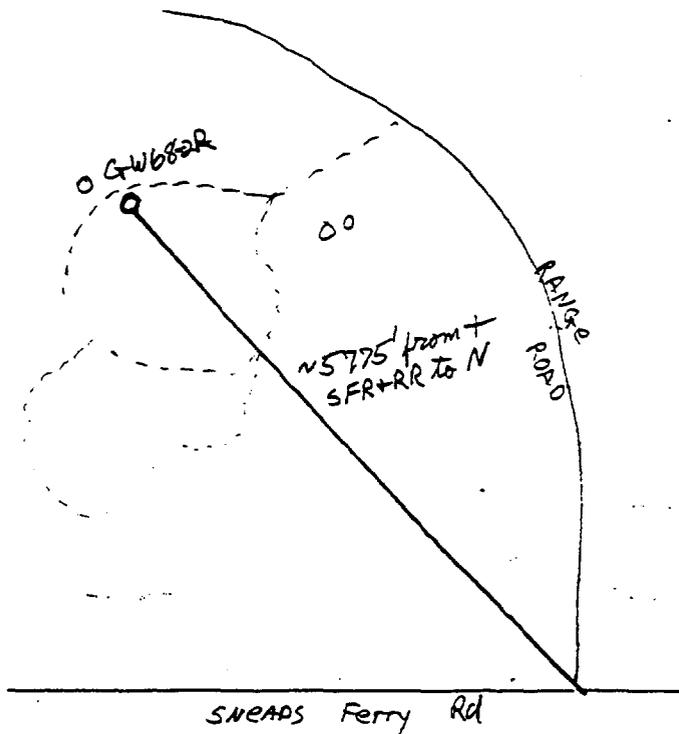
20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENT'S REQUIREMENTS AND RECOMMENDATIONS? yes

21. REMARKS

I do hereby certify that this well was constructed in accordance with N.C. Well Construction Regulations and Standards and that this well record is true and exact.

RJ Kinley-Mombauer 12-18-84  
SIGNATURE OF CONTRACTOR OR AGENT DATE

LOCATION SKETCH  
(Show distance to numbered roads, or other map reference points)



NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT  
WELL RECORD DIVISION OF ENVIRONMENTAL MANAGEMENT

P. O. Box 27687 - RALEIGH, N.C. 27611 919-733-2020

DRILLING CONTRACTOR STS CONSULTANTS, LTD REG. NO. 191 WELL CONSTRUCTION PERMIT NO. \_\_\_\_\_

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: SNEADS FERRY County: ONSCOW  
RANGE ROAD, CAMP LEJEUNE Quadrangle No. SNEADS FERRY  
(Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANOIX GENERAL, MARINE CAMP BASE

DRILLING LOG GW68-3

3. ADDRESS: OFFICE OF AFS FACILITIES, CAMP LEJEUNE P.C.

4. TOPOGRAPHY: draw, valley, slope, hilltop flat (circle one)

DEPTH FROM TO

FORMATION DESCRIPTION  
(USCS Classification)

5. USE OF WELL: H<sub>2</sub>O Sampling DATE: 8-2-84

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO

7. TOTAL DEPTH: 19.77 RIG TYPE OR METHOD: H.S.A.

8. FORMATION SAMPLES COLLECTED: YES  NO

9. CASING: Depth Inside Dia. Wall thick. or weight/ft. type

From 0 to 5.29 ft 2" Sch 40 PVC

10. GROUT: Depth Material Method

From 0 to 2.7 ft sand-cement (2:1) poured

If additional space is needed, use back of form

11. SCREEN: Depth Dia. Type & Opening

From 5.29 to 19.77 ft 2" Sch 40 PVC  
.010 slot

LOCATION SKETCH

(Show distance to numbered roads, or other map reference points)

12. GRAVEL: Depth Size Material

From 4.10 to 19.77 ft 2.7 4.10 Silica Sand  
Bentonite

13. WATER ZONES (depth): 19.15 - 19.77 (TOC)

14. STATIC WATER LEVEL: 19.15 ft. above/below top of casing

Casing is 2.5 ft. above land surface ELEV: 7638'

15. YIELD (gpm): 0.5 METHOD OF TESTING: BAUED

16. PUMPING WATER LEVEL: 19.25 ft.

after 2 hours at 0.5 gpm.

17. CHLORINATION: Type NA Amount \_\_\_\_\_

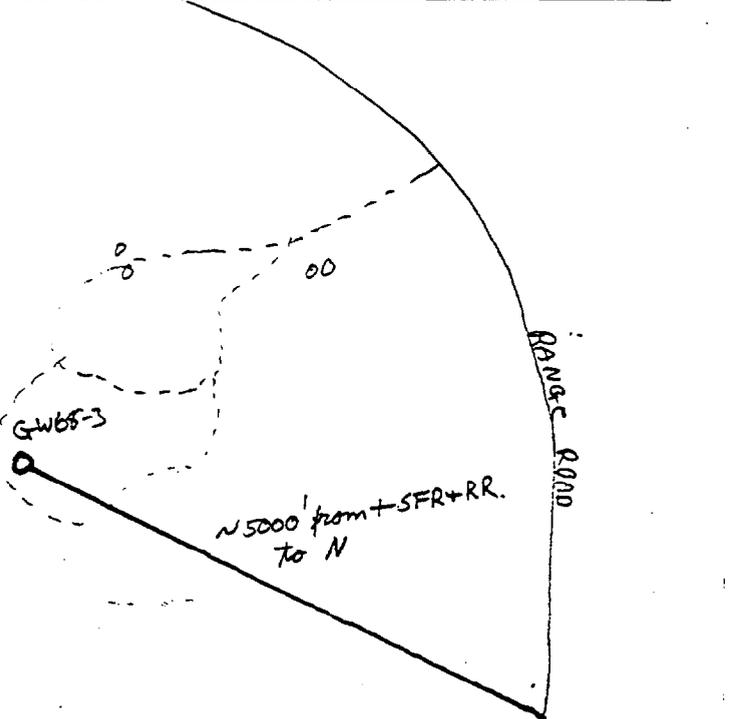
18. WATER QUALITY: GOOD TEMPERATURE (°F) 70

19. PERMANENT PUMP: Date Installed NA

Type \_\_\_\_\_ Capacity \_\_\_\_\_ (gpm) HP \_\_\_\_\_

Make \_\_\_\_\_ Intake Depth \_\_\_\_\_

Airline Depth \_\_\_\_\_



20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENTS REQUIREMENTS AND RECOMMENDATIONS? YES

21. REMARKS

I do hereby certify that this well was constructed in accordance with N.C. Well Construction Regulations and Standards and that this well record is true and exact.

R. D. Mowbray 12-13-84  
SIGNATURE OF CONTRACTOR OF AGENT DATE

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT  
WELL RECORD

DIVISION OF ENVIRONMENTAL MANAGEMENT

P. O. Box 27687 - RALEIGH, N.C. 27611 919-733-2020

DRILLING CONTRACTOR STS CONSULTANTS, LTD REG. NO. 191

WELL CONSTRUCTION PERMIT NO. \_\_\_\_\_

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: SNEADS FERRY County: ONSLOW  
RANGE RD., CAMP DEJEUNE Quadrangle No. SNEADS FERRY  
(Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL, MINE CAMP BASE

DRILLING LOG GW68-3R

3. ADDRESS: OFFICE OF A/C FACILITIES, CAMP DEJEUNE N.C.

4. TOPOGRAPHY: draw, valley, slope, hilltop flat (circle one)

DEPTH FROM TO

FORMATION DESCRIPTION  
(USCS Classification)

5. USE OF WELL: H<sub>2</sub>O Sampling DATE: 7-17-84

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO

7. TOTAL DEPTH: 18.21 RIG TYPE OR METHOD: H.S.A.

8. FORMATION SAMPLES COLLECTED: YES  NO

9. CASING: Depth Inside Wall thick. type

From 0 to 3.73 ft Dia. 2" Sch 40 PVC

10. GROUT: Depth Material Method

From 0 to 1.58 ft sand cement (2:1) poured

11. SCREEN: Depth Dia. Type & Opening

From 3.73 to 18.21 ft 2" Sch 40 PVC  
.010 slot

12. GRAVEL: Depth Size Material

From 2.71 to 18.21 ft 1.58 2.71 Silica Sand  
Bentonite

13. WATER ZONES (depth): 18.14 - 20.14' (TOC)

14. STATIC WATER LEVEL: 19.14 ft. above/below top of casing

Casing is 2.5 ft. above land surface ELEV: 77.45'

15. YIELD (gpm): \_\_\_\_\_ METHOD OF TESTING: BALLEN

16. PUMPING WATER LEVEL: \_\_\_\_\_ 1 ft. column

after 2 hours at \_\_\_\_\_ gpm.

17. CHLORINATION: Type NA Amount \_\_\_\_\_

18. WATER QUALITY: GOOD TEMPERATURE (°F) 70

19. PERMANENT PUMP: Date Installed NA

Type \_\_\_\_\_ Capacity \_\_\_\_\_ (gpm) HP \_\_\_\_\_

Make \_\_\_\_\_ Intake Depth \_\_\_\_\_

Airline Depth \_\_\_\_\_

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENT'S REQUIREMENTS AND RECOMMENDATIONS? yes

21. REMARKS

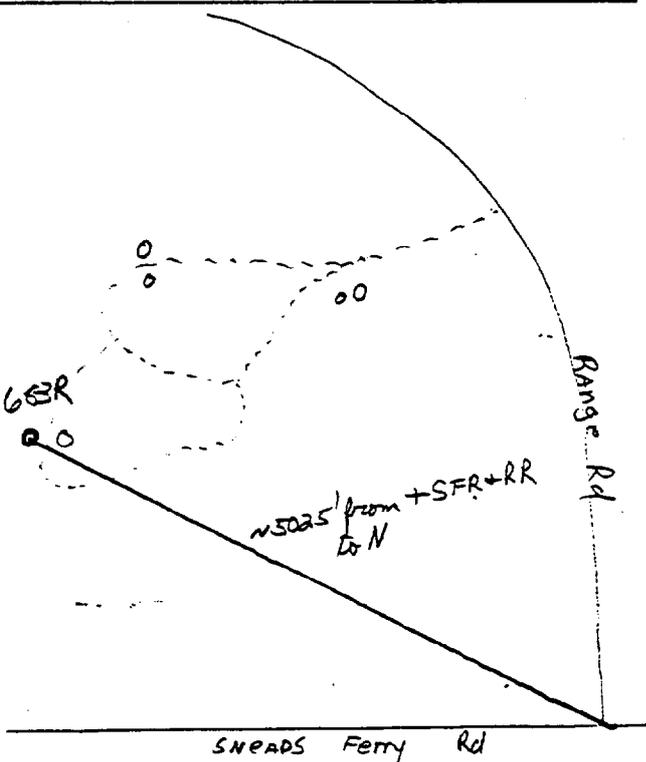
I do hereby certify that this well was constructed in accordance with N.C. Well Construction Regulations and Standards and that this well record is true and exact.

RJ Kestromberg 12-18-84  
SIGNATURE OF CONTRACTOR OF AGENT DATE

If additional space is needed, use back of form

LOCATION SKETCH

(Show distance to numbered roads, or other map reference points)





NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT

WELL RECORD

DIVISION OF ENVIRONMENTAL MANAGEMENT

P. O. Box 27687 - RALEIGH, N.C. 27611 919-733-2020

DRILLING CONTRACTOR STS CONSULTANTS LTD REG. NO. 191

WELL CONSTRUCTION PERMIT NO. \_\_\_\_\_

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: SNEADS FERRY County: DANSLAW

RT 210, CAMP LETEVINE Quadrangle No. SNEADS FERRY  
(Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL, MARINE CORP BASE

DRILLING LOG GW69-2

3. ADDRESS: OFFICE OF AC'S FACILITIES, CAMP LETEVINE N.C.

4. TOPOGRAPHY: draw, valley, slope, hilltop, flat (circle one)

DEPTH FROM TO

FORMATION DESCRIPTION  
(USCS Classification)

5. USE OF WELL: H<sub>2</sub>O Sampling DATE: 7-18-84

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO

0-8.75 SM

7. TOTAL DEPTH: 20.42 RIG TYPE OR METHOD: H.S.A.

8.75-9.0 SC-SM

8. FORMATION SAMPLES COLLECTED: YES  NO

9.0-21.5 CL

9. CASING: Depth Inside Wall thick. type  
Dia. or weight/ft.

From 0 to 5.94 ft 2" Sch 40 PVC

10. GROUT: Depth Material Method

From 0 to 3.67 ft Sand-cement (2:1) poored

If additional space is needed, use back of form

11. SCREEN: Depth Dia. Type & Opening

From 5.94 to 20.42 ft 2" Sch 40 PVC

LOCATION SKETCH  
(Show distance to numbered roads, or other map reference points)

STONE BAY

12. GRAVEL: Depth Size Material

From 4.77 to 20.42 ft Silica Sand  
3.67 4.77 Bentonite

13. WATER ZONES (depth): 8.3 20.42' (TOC)

14. STATIC WATER LEVEL: 8.3 ft. above/below top of casing

Casing is 25 ft. above land surface ELEV: 99.23

15. YIELD (gpm): 3 METHOD OF TESTING: PUMPED

16. PUMPING WATER LEVEL: 11.5 ft.

after 1 hours at 3 gpm.

17. CHLORINATION: Type NA Amount \_\_\_\_\_

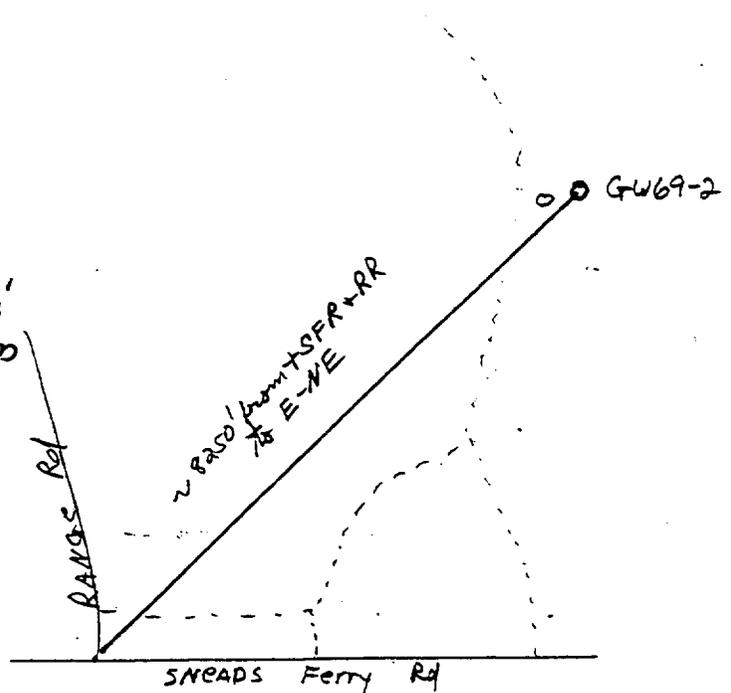
18. WATER QUALITY: GOOD-FAIR TEMPERATURE (°F) \_\_\_\_\_

19. PERMANENT PUMP: Date Installed NA

Type \_\_\_\_\_ Capacity \_\_\_\_\_ (gpm) HP \_\_\_\_\_

Make \_\_\_\_\_ Intake Depth \_\_\_\_\_

Airline Depth \_\_\_\_\_



20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENT'S REQUIREMENTS AND RECOMMENDATIONS? yes

21. REMARKS

I do hereby certify that this well was constructed in accordance with N.C. Well Construction Regulations and Standards and that this well record is true and exact.

[Signature] 12-18-84  
SIGNATURE OF CONTRACTOR OF AGENT DATE

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT  
WELL RECORD DIVISION OF ENVIRONMENTAL MANAGEMENT

P. O. Box 27687 - RALEIGH, N.C. 27611 919-733-2020

DRILLING CONTRACTOR STS CONSULTANTS Ltd, REG. NO. 191 WELL CONSTRUCTION PERMIT NO. \_\_\_\_\_

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: SNEADS FERRY County: OSLOW  
RT 210, CAMP LEJEUNE Quadrangle No. SNEADS FERRY  
(Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL, MARINE CORPS

DRILLING LOG G469-3

3. ADDRESS: OFFICE OF A/S FACILITIES, CAMP LEJEUNE N.C.

4. TOPOGRAPHY: draw, valley, slope (hilltop) flat (circle one)

DEPTH FROM TO

FORMATION DESCRIPTION  
(USCS Classification)

5. USE OF WELL: H<sub>2</sub>O Sampling DATE: 7-18-84

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO

0-10.5 SM

7. TOTAL DEPTH: 20.35 RIG TYPE OR METHOD: H.S.A.

15-16.5 CL

8. FORMATION SAMPLES COLLECTED: YES  NO

20.-21.5 CL

9. CASING: Depth Inside Wall thick. type  
Dia. or weight/ft.

From 0 to 5.87ft 2" Sch 40 PVC

10. GROUT: Depth Material Method

From 0 to 371ft sand cement (1:1) poured

If additional space is needed, use back of form

11. SCREEN: Depth Dia. Type & Opening

From 5.87 to 20.35ft 2" Sch 40 PVC  
.010 slot

LOCATION SKETCH  
(Show distance to numbered roads, or other map reference points)

STONE BAY

12. GRAVEL: Depth Size Material

From 4.7 to 20.35ft 3/4 4/4 Silica Sand  
Bentonite

13. WATER ZONES (depth): 7.4 - 20.35' (TOC)

14. STATIC WATER LEVEL: 7.4 ft. above top of casing  
below

Casing is 2.5 ft. above land surface ELEV: 98.52'

15. YIELD (gpm): 3.5 METHOD OF TESTING: PUMPED

16. PUMPING WATER LEVEL: 10.0 ft.

after 1 hours at 3.5 gpm.

17. CHLORINATION: Type NA Amount

18. WATER QUALITY: GOOD TEMPERATURE (°F) -

19. PERMANENT PUMP: Date Installed NA

Type Capacity (gpm) HP

Make Intake Depth

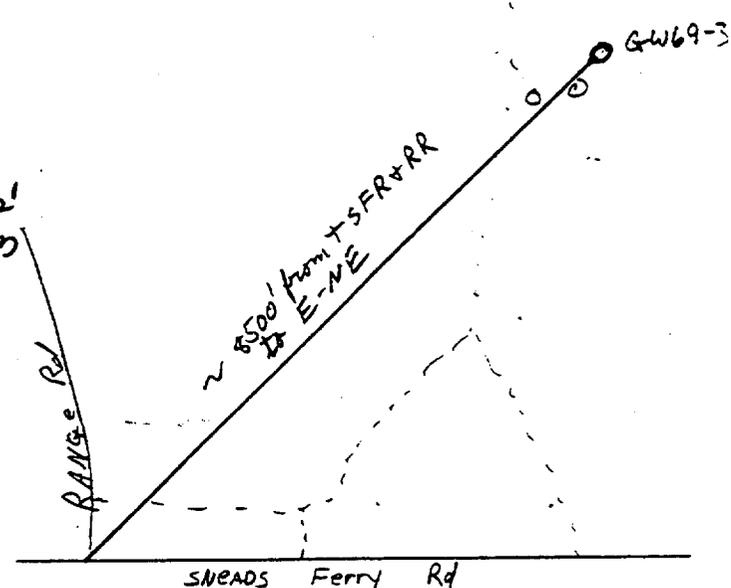
Airline Depth

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENTS REQUIREMENTS AND RECOMMENDATIONS? yes

21. REMARKS

I do hereby certify that this well was constructed in accordance with N.C. Well Construction Regulations and Standards and that this well record is true and exact.

RJ/Andrew Mombaye 12-8-84  
SIGNATURE OF CONTRACTOR OF AGENT DATE



NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT  
WELL RECORD DIVISION OF ENVIRONMENTAL MANAGEMENT

P. O. Box 27687 - RALEIGH, N.C. 27611 919-733-2020

DRILLING CONTRACTOR STS CONSULTANTS, Ltd. REG. NO. 191 WELL CONSTRUCTION PERMIT NO. \_\_\_\_\_

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: SNEADS FERRY County: ONSLOW  
RT 210 / CAMP LEVINE Quadrangle No. SNEADS FERRY  
(Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL, MARINE CORP BASE DRILLING LOG GW69-4

3. ADDRESS: OFFICE OF A/S FACILITIES, CAMP LEVINE N.C. DEPTH FROM TO FORMATION DESCRIPTION (USCS Class.)

4. TOPOGRAPHY: draw, valley, slope, hilltop, flat (circle one) 28540

5. USE OF WELL: H<sub>2</sub>O Sampling DATE: 7-18-84

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO 0-8.5 SM

7. TOTAL DEPTH: 20.25 RIG TYPE OR METHOD: H.S.A. 8.5-9.25 SC-SM

8. FORMATION SAMPLES COLLECTED: YES  NO 9.25-16.5 SM

9. CASING: Depth Inside Dia. Wall thick. or weight/ft. type 40-21.5 AL

From 0 to 5.77 ft. 2" Sch 40 PVC

10. GROUT: Depth Material Method  
From 0 to 3.5 ft. Sand Cement (2:1) poURED

If additional space is needed, use back of form

11. SCREEN: Depth Dia. Type & Opening  
From 5.77 to 20.25 2" Sch 40 PVC  
.010 Slot

LOCATION SKETCH (Show distance to numbered roads, or other map reference points)

Stone Bay

12. GRAVEL: Depth Size Material  
From 4.54 to 20.25 3.5 4.54 Silica Sand  
Bentonite

13. WATER ZONES (depth): 8.94 - 20.25 (TDC)

14. STATIC WATER LEVEL: 8.94 ft. above/below top of casing  
Casing is 2.5 ft. above land surface ELEV: 102.51

15. YIELD (gpm): 3.0 METHOD OF TESTING: PUMPED

16. PUMPING WATER LEVEL: 11.0 ft. after 1 hours at 3.0 gpm.

17. CHLORINATION: Type NA Amount \_\_\_\_\_

18. WATER QUALITY: GOOD TEMPERATURE (°F) 80

19. PERMANENT PUMP: Date Installed NA

Type \_\_\_\_\_ Capacity \_\_\_\_\_ (gpm) HP \_\_\_\_\_

Make \_\_\_\_\_ Intake Depth \_\_\_\_\_

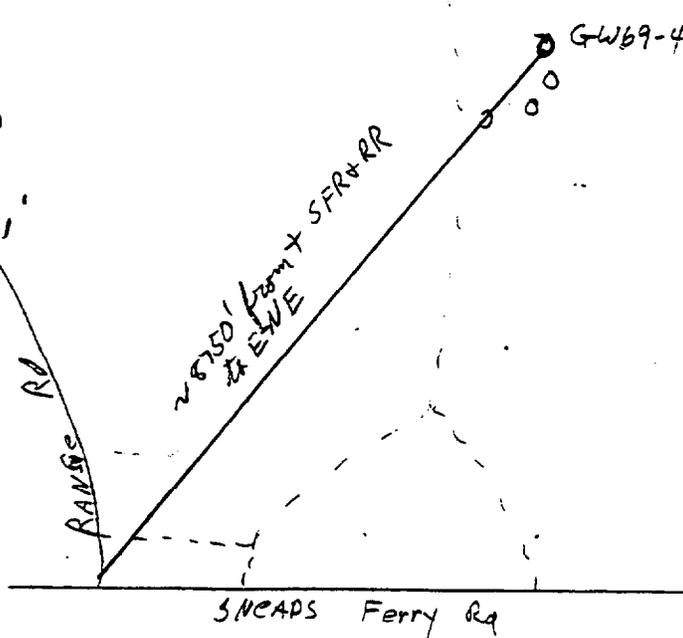
Airline Depth \_\_\_\_\_

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENTS REQUIREMENTS AND RECOMMENDATIONS? Yes

21. REMARKS \_\_\_\_\_

I do hereby certify that this well was constructed in accordance with N.C. Well Construction Regulations and Standards and that this well record is true and exact.

DN Kish Mombasa 12-18-87  
SIGNATURE OF CONTRACTOR OR AGENT DATE



NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT  
WELL RECORD DIVISION OF ENVIRONMENTAL MANAGEMENT

P. O. Box 27687 - RALEIGH, N.C. 27611 919-733-2020

DRILLING CONTRACTOR STS CONSULTANTS, Ltd REG. NO. 191 WELL CONSTRUCTION PERMIT NO. \_\_\_\_\_

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: SNEADS FERRY County: DANSLAW  
RT 210, CAMP LEBJUNE Quadrange No. SNEADS FERRY  
(Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL, MARINE CORP BASE

DRILLING LOG GW69-5

3. ADDRESS: OFFICE OF ACS FACILITIES, CAMP LEBJUNE, N.C.

DEPTH FROM	TO	FORMATION DESCRIPTION
0-5.5		SM
5.5-6.0		SC-SM
6.0-10.25		SM
10.25-10.5		SC-SM
15-16.5		CL
20-21.5		CL

4. TOPOGRAPHY: draw, valley, slope, hilltop, flat (circle one)

5. USE OF WELL: H<sub>2</sub>O Sampling DATE: 7-18-84

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO

7. TOTAL DEPTH: 20.98 RIG TYPE OR METHOD: H.S.A.

8. FORMATION SAMPLES COLLECTED: YES  NO

9. CASING: Depth Inside Dia. Wall thick. type or weight/ft.

From 0 to 65 ft 2" Sch 40 PVC

10. GROUT: Depth Material Method  
From 0 to 371 ft sand-cement 10:1 pooured

11. SCREEN: Depth Dia. Type & Opening  
From 65 to 20.98 ft 2" Sch 40 PVC  
.010" slot

12. GRAVEL: Depth Size Material  
From 5.33 to 20.98 ft 3.71 5.33 Silica Sand  
Bentonite

13. WATER ZONES (depth): 11.45 - 20.98' (100)

14. STATIC WATER LEVEL: 11.45 ft. <sup>above</sup>/<sub>below</sub> top of casing  
Casing is 35 ft. above land surface ELEV: 96.68'

15. YIELD (gpm): 3 METHOD OF TESTING: PUMPED

16. PUMPING WATER LEVEL: 15.0 ft.  
after 1 3/4 hours at 3 gpm.

17. CHLORINATION: Type NA Amount \_\_\_\_\_

18. WATER QUALITY: GOOD TEMPERATURE (°F) 73

19. PERMANENT PUMP: Date Installed NA

Type \_\_\_\_\_ Capacity \_\_\_\_\_ (gpm) HP \_\_\_\_\_

Make \_\_\_\_\_ Intake Depth \_\_\_\_\_

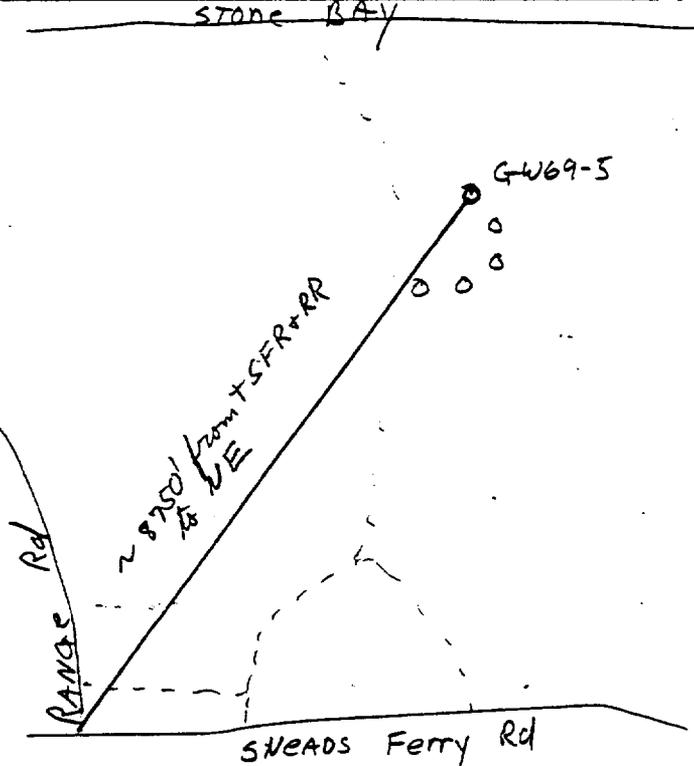
Airline Depth \_\_\_\_\_

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENTS REQUIREMENTS AND RECOMMENDATIONS? NA

21. REMARKS  
I do hereby certify that this well was constructed in accordance with N.C. Well Construction Regulations and Standards and that this well record is true and exact.

D. J. Mombere 12-18-84  
SIGNATURE OF CONTRACTOR OF AGENT DATE

LOCATION SKETCH  
(Show distance to numbered roads, or other map reference points)



Doc No: CLEJ-00075-0 - 1/21/85

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT  
WELL RECORD DIVISION OF ENVIRONMENTAL MANAGEMENT

P. O. Box 27687 - RALEIGH, N.C. 27611 919-733-2020

DRILLING CONTRACTOR STS CONSULTANTS, Ltd. REG. NO. 191 WELL CONSTRUCTION PERMIT NO. \_\_\_\_\_

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: SNEADS FERRY County: ONSCOW  
RT 210, CAMP LESOUNE Quadrangle SNEADS FERRY  
(Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL, MARINE CORP BASE

DRILLING LOG GW69-6

3. ADDRESS: OFFICE OF ACS FACILITIES, CAMP LESOUNE, N.C.

4. TOPOGRAPHY: draw, valley, slope, hilltop flat (circle one)

DEPTH FROM TO FORMATION DESCRIPTION (USCS Class.)

5. USE OF WELL: H<sub>2</sub>O Sampling DATE: 7-17-84

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO

0-3.0 SM

7. TOTAL DEPTH: 30.83 RIG TYPE OR METHOD: H.S.A.

30-60 ML

8. FORMATION SAMPLES COLLECTED: YES  NO

60-10.5 SM

9. CASING: Depth Inside Dia. Wall thick. or weight/ft. type

15.-16.5 ML

From 0 to 16.37 ft 2" Sch 40 PVC

20.-21.5 CL

25.-26.5 CL

30.-31.5 SM

10. GROUT: Depth Material Method

From 0 to 14.37 ft sand-cement fill poured

If additional space is needed, use back of form

11. SCREEN: Depth Dia. Type & Opening

From 16.37 to 30.83 ft 2" Sch 40 PVC  
010 slot

LOCATION SKETCH

(Show distance to numbered roads, or other map reference points)

12. GRAVEL: Depth Size Material

From 15.37 to 30.83 ft 1437 15.37 Silica Sand  
Bentonite

13. WATER ZONES (depth): 27.75 - 30.83 (TOC)

14. STATIC WATER LEVEL: 27.75 ft. <sup>above</sup> <sub>below</sub> top of casing  
Casing is 2.5 ft. above land surface ELEV: 91.2'

15. YIELD (gpm): 2 METHOD OF TESTING: pumped

16. PUMPING WATER LEVEL: 29.0 ft.

after 1 3/4 hours at 2 gpm.

17. CHLORINATION: Type NA Amount \_\_\_\_\_

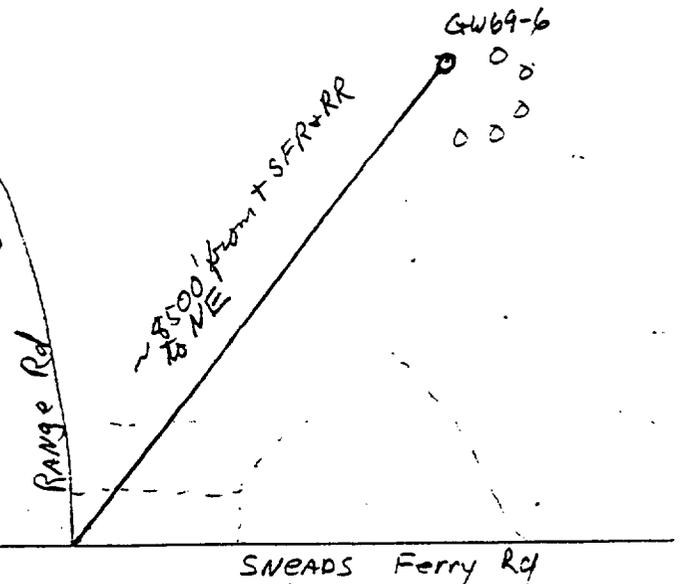
18. WATER QUALITY: FAIR TEMPERATURE (°F) 65

19. PERMANENT PUMP: Date Installed NA

Type \_\_\_\_\_ Capacity \_\_\_\_\_ (gpm) HP \_\_\_\_\_

Make \_\_\_\_\_ Intake Depth \_\_\_\_\_

Airline Depth \_\_\_\_\_



20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENT'S REQUIREMENTS AND RECOMMENDATIONS? no

21. REMARKS

I do hereby certify that this well was constructed in accordance with N.C. Well Construction Regulations and Standards and that this well record is true and exact.

R J Knud Mombauer 12-18-84  
SIGNATURE OF CONTRACTOR OF AGENT DATE

Doc No: CLEJ-00075-3.13-1/21/85

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT

WELL RECORD

DIVISION OF ENVIRONMENTAL MANAGEMENT

P. O. Box 27687 - RALEIGH, N.C. 27611 919-733-2020

DRILLING CONTRACTOR STS CONSULTANTS, LTD REG. NO. 191

WELL CONSTRUCTION PERMIT NO. \_\_\_\_\_

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: SNEADS FERRY County: ONSLOW  
RT 210, CAMP LEJUNE Quadrangle No. SNEADS FERRY  
(Road, Community or Subdivision and Lot No.)

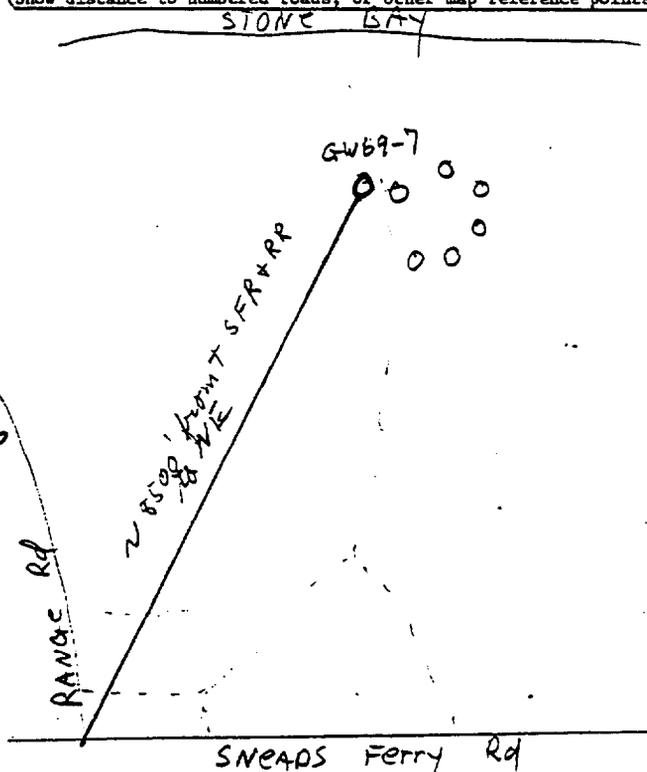
2. OWNER: COMMANDING GENERAL, MARINE CORPS BASE DRILLING LOG GW69-7  
3. ADDRESS: OFFICE OF AC/S FACILITIES, CAMP LEJUNE N.C. DEPTH FROM TO FORMATION DESCRIPTION (USCS Class.)

4. TOPOGRAPHY:	draw, valley (slope), hilltop, flat (circle one)	DEPTH FROM TO	FORMATION DESCRIPTION (USCS Class.)
5. USE OF WELL:	<u>H<sub>2</sub>O Sampling</u> DATE: <u>7-17-84</u>		
6. DOES THIS WELL REPLACE AN EXISTING WELL?	<u>NO</u>	<u>0-3.0</u>	<u>SM</u>
7. TOTAL DEPTH:	<u>20.69</u> RIG TYPE OR METHOD: <u>H.S.A.</u>	<u>3.0-4.5</u>	<u>SC-SM</u>
8. FORMATION SAMPLES COLLECTED:	YES <input checked="" type="checkbox"/> NO	<u>4.5-6.0</u>	<u>SM</u>
9. CASING: Depth	Inside Dia.	Wall thick. or weight/ft.	type
From <u>0</u> to <u>621</u> ft	<u>2"</u>	<u>Sch 40</u>	<u>PVC</u>
			<u>8.0-9.0</u> <u>SM</u>
			<u>9.-10.5</u> <u>CL</u>
			<u>15.-16.5</u> <u>CL</u>
10. GROUT: Depth	Material	Method	
From <u>0</u> to <u>271</u> ft	<u>sand cement (2:1)</u>	<u>poured</u>	<u>20.-21.5</u> <u>SM</u>

If additional space is needed, use back of form

11. SCREEN: Depth	Dia.	Type & Opening
From <u>621</u> to <u>2069</u> ft	<u>2"</u>	<u>Sch 40 PVC</u>
		<u>.010 slot</u>

LOCATION SKETCH (Show distance to numbered roads, or other map reference points)



12. GRAVEL: Depth	Size	Material
From <u>508</u> to <u>2069</u> ft		<u>Silica Sand</u>
<u>271</u> <u>508</u>		<u>Bentonite</u>

13. WATER ZONES (depth): 17.7 - 20.69' (TOC)

14. STATIC WATER LEVEL: 17.7 ft. above/below top of casing  
Casing is 2.0 ft. above land surface ELEV: 77.91

15. YIELD (gpm): 1.5 METHOD OF TESTING: PUMPED

16. PUMPING WATER LEVEL: 19.0 ft.  
after 2 hours at 1.5 gpm.

17. CHLORINATION: Type NA Amount \_\_\_\_\_

18. WATER QUALITY: GOOD TEMPERATURE (°F) 65

19. PERMANENT PUMP: Date Installed NA

Type \_\_\_\_\_ Capacity \_\_\_\_\_ (gpm) HP \_\_\_\_\_

Make \_\_\_\_\_ Intake Depth \_\_\_\_\_

Airline Depth \_\_\_\_\_

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENT'S REQUIREMENTS AND RECOMMENDATIONS? Yes

21. REMARKS

I do hereby certify that this well was constructed in accordance with N.C. Well Construction Regulations and Standards and that this well record is true and exact.

D.J. Kniskern 12-18-84  
SIGNATURE OF CONTRACTOR OF AGENT DATE

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: SNEADS FERRY County: ONSCOW  
RT 210, CAMP LEBRUNE Quadrangle No. SNEADS FERRY  
(Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL, MARINE CAMP BASE DRILLING LOG GW69-8

3. ADDRESS: OFFICE OF A/C'S FACILITIES, CAMP LEBRUNE N.C. DEPTH FROM TO FORMATION DESCRIPTION

4. TOPOGRAPHY: draw, valley, slope, hilltop, flat (circle one) 28540 FROM TO FORMATION DESCRIPTION (USCS CLASS.)

5. USE OF WELL: H<sub>2</sub>O Sampling DATE: 7-17-84

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO 0-3.25 SM

7. TOTAL DEPTH: 20.4 RIG TYPE OR METHOD: H.S.A. 3.25-8.5 SC-SM

8. FORMATION SAMPLES COLLECTED: YES  NO 8.5-9. CL

9. CASING: Depth Inside Dia. Wall thick. type 9.-10.5 ML

From 0 to 5.92 ft 2" Sch 40 PVC 15.-16.5 SC-SM

20.-21.5 SC-SM

10. GROUT: Depth Material Method  
From 0 to 3.35 ft sand cement (2:1) poored

If additional space is needed, use back of form

11. SCREEN: Depth Dia. Type & Opening  
From 5.92 to 20.4 ft 2" Sch 40 PVC  
.010 slot  
LOCATION SKETCH (Show distance to numbered roads, or other map reference points)  
STONE BAY

12. GRAVEL: Depth Size Material  
From 4.63 to 20.4 ft 3.35 4.63 Silica Sand  
Bentonite

13. WATER ZONES (depth): 10.52 - 20.4' (TDC)

14. STATIC WATER LEVEL: 10.52 ft. above below top of casing  
Casing is 2.5 ft. above land surface ELEV: 97.03

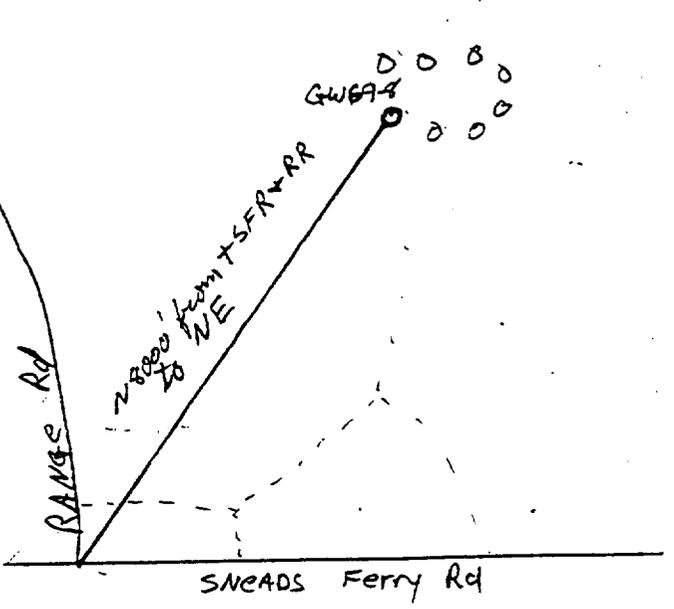
15. YIELD (gpm): 1 METHOD OF TESTING: Pumped

16. PUMPING WATER LEVEL: 18.0 ft.  
after 2.5 hours at 1 gpm.

17. CHLORINATION: Type NA Amount -

18. WATER QUALITY: GOOD TEMPERATURE (°F) 73

19. PERMANENT PUMP: Date Installed NA  
Type Capacity (gpm) HP  
Make Intake Depth  
Airline Depth



20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENT'S REQUIREMENTS AND RECOMMENDATIONS? NA

21. REMARKS

I do hereby certify that this well was constructed in accordance with N.C. Well Construction Regulations and Standards and that this well record is true and exact.

R. J. Mombay 12-18-84  
SIGNATURE OF CONTRACTOR OF AGENT DATE

Doc NO: CLEJ-00075-3.13-1/21/85

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT  
WELL RECORD DIVISION OF ENVIRONMENTAL MANAGEMENT

P. O. Box 27687 - RALEIGH, N.C. 27611 919-733-2020

DRILLING CONTRACTOR STS CONSULTANTS LTD REG. NO. 191 WELL CONSTRUCTION PERMIT NO. \_\_\_\_\_

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: SNEADS FERRY County: ONSLOW  
COURTHOUSE RD CAMP LEJEUNE Quadrangle No. NEWS RIVER TULET  
(Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL, MARINE CORP BASE

DRILLING LOG GW73-1

3. ADDRESS: OFFICE OF A&S FACILITIES, CAMP LEJEUNE, N.C.

DEPTH FROM TO FORMATION DESCRIPTION (USCS Class.)

4. TOPOGRAPHY: draw, valley, slope, hilltop (flat) (circle one) 28540

5. USE OF WELL: H<sub>2</sub>O Sampling DATE: 7-6-84

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO

0-16.5 SM

7. TOTAL DEPTH: 19.57 RIG TYPE OR METHOD: H.S.A.

20-21.5 ML

8. FORMATION SAMPLES COLLECTED: YES  NO

9. CASING: Depth Inside Dia. Wall thick. type

From 0 to 5.11 ft 2" Sch 40 PVC

10. GROUT: Depth Material Method

From 0 to 3.11 ft sandy cement (2:1) poURED

If additional space is needed, use back of form

11. SCREEN: Depth Dia. Type & Opening

From 5.11 to 19.57 ft 2" Sch 40 PVC  
.010 slot

LOCATION SKETCH (Show distance to numbered roads, or other map reference points)

12. GRAVEL: Depth Size Material

From 4.11 to 19.57 ft 3/11 4/11 Silica Sand  
 Bentonite

13. WATER ZONES (depth): 4.3 - 19.57' (TOC)

14. STATIC WATER LEVEL: 4.3 ft. above/below top of casing

Casing is 25 ft. above land surface ELEV: 100.73

15. YIELD (gpm): 10 METHOD OF TESTING: PUMPING

16. PUMPING WATER LEVEL: 4.4 ft.

after 1 hour at 10 gpm.

17. CHLORINATION: Type NA Amount \_\_\_\_\_

18. WATER QUALITY: GOOD TEMPERATURE (°F) 73

19. PERMANENT PUMP: Date Installed NA

Type \_\_\_\_\_ Capacity \_\_\_\_\_ (gpm) HP \_\_\_\_\_

Make \_\_\_\_\_ Intake Depth \_\_\_\_\_

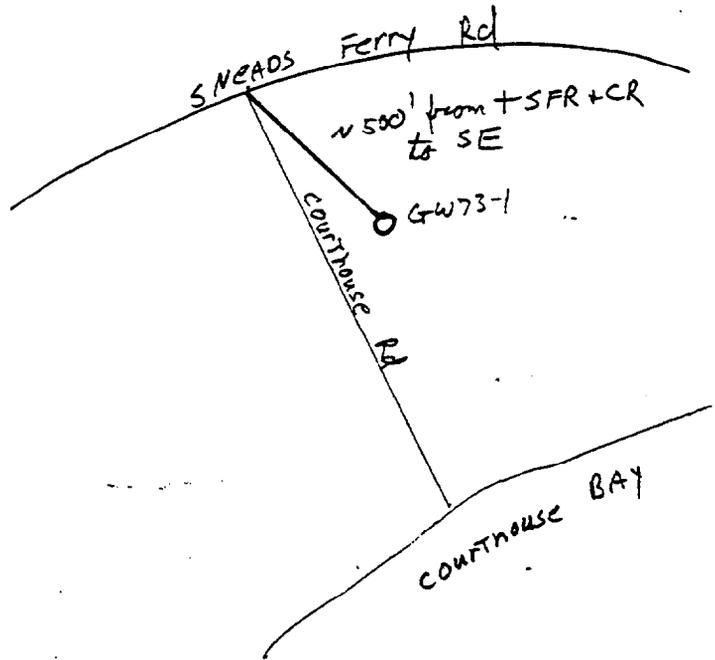
Airline Depth \_\_\_\_\_

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENT'S REQUIREMENTS AND RECOMMENDATIONS? yes

21. REMARKS \_\_\_\_\_

I do hereby certify that this well was constructed in accordance with N.C. Well Construction Regulations and Standards and that this well record is true and exact.

R. J. Kish, Mombasa 12-18-84  
SIGNATURE OF CONTRACTOR OF AGENT DATE





DOC NO: CLEJ-00075 - 3.13 - 1/21/85

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT

WELL RECORD

DIVISION OF ENVIRONMENTAL MANAGEMENT

P. O. Box 27687 - RALEIGH, N.C. 27611 919-733-2020

DRILLING CONTRACTOR STS CONSULTANTS, LTD REG. NO. 191 WELL CONSTRUCTION PERMIT NO. \_\_\_\_\_

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: SNEADS FERRY County: ONSLOW  
COURT HOUSE RD CAMP LESTONE Quadrangle No. NEW RIVER TNCLET  
(Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL MARINE CORP BASE

DRILLING LOG GW73-3

3. ADDRESS: OFFICE OF AC/S FACILITIES, CAMP LESTONE N.C.

4. TOPOGRAPHY: draw, valley, slope, hilltop (flat/circle one)

DEPTH FROM TO

FORMATION DESCRIPTION (USCS Class.)

5. USE OF WELL: H<sub>2</sub>O Sampling DATE: 7-6-84

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO

0-1.0 SM

7. TOTAL DEPTH: 19.67 RIG TYPE OR METHOD: H.S.A.

1-1.25 GM

8. FORMATION SAMPLES COLLECTED: YES  NO

1.25-10.5 SM

9. CASING: Depth Inside Dia. Wall thick. or weight/ft. type

From 0 to 5.19 ft 2" Sch 40 PVC

15.0-16.5 CL

20.0-21.5 CL

10. GROUT: Depth Material Method

From 0 to 2.17 ft sand-cement (2:1) poured

If additional space is needed, use back of form

11. SCREEN: Depth Dia. Type & Opening

From 5.19 to 19.67 ft 2" Sch 40 PVC  
.010 slot

LOCATION SKETCH

(Show distance to numbered roads, or other map reference points)

12. GRAVEL: Depth Size Material

From 4.08 to 19.67 ft 2 1/2" Silica Sand  
2 1/2" 4.08 Bentonite

13. WATER ZONES (depth): 4.9 - 19.67 (100)

14. STATIC WATER LEVEL: 4.9 ft. above/below top of casing

Casing is 2.5 ft. above land surface ELEV: 98.04

15. YIELD (gpm): 7 METHOD OF TESTING: PUMPED

16. PUMPING WATER LEVEL: 5.2 ft.

after 2 hours at 7 gpm.

17. CHLORINATION: Type NA Amount -

18. WATER QUALITY: FAIR TEMPERATURE (°F) 73

19. PERMANENT PUMP: Date Installed NA

Type \_\_\_\_\_ Capacity \_\_\_\_\_ (gpm) HP \_\_\_\_\_

Make \_\_\_\_\_ Intake Depth \_\_\_\_\_

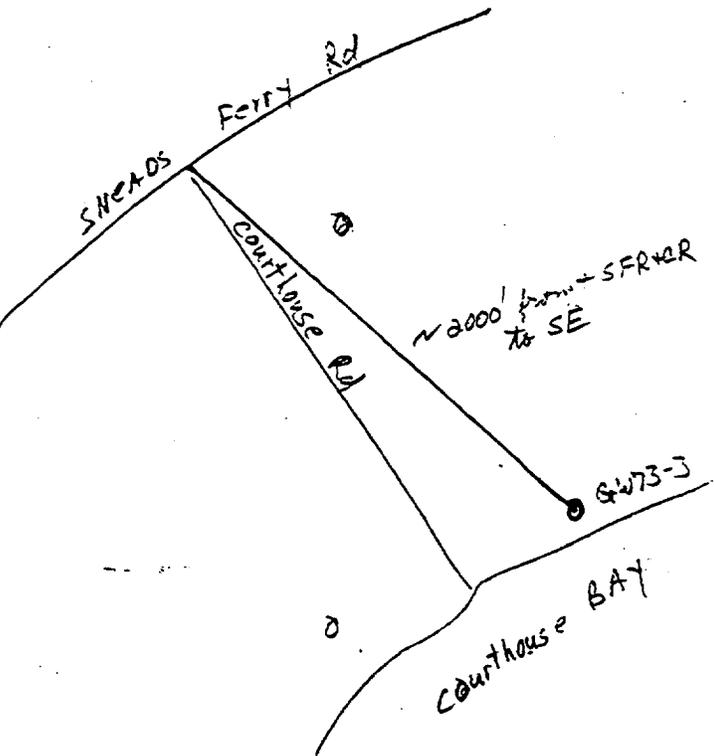
Airline Depth \_\_\_\_\_

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENTS REQUIREMENTS AND RECOMMENDATIONS? yes

21. REMARKS

I do hereby certify that this well was constructed in accordance with N.C. Well Construction Regulations and Standards and that this well record is true and exact.

R. Keith Momborg 12-18-84  
SIGNATURE OF CONTRACTOR OF AGENT DATE



Doc No: CLET-00075-3.13-1/21/85

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT  
WELL RECORD DIVISION OF ENVIRONMENTAL MANAGEMENT

P. O. Box 27687 - RALEIGH, N.C. 27611 919-733-2020

DRILLING CONTRACTOR STS CONSULTANTS LTD REG. NO. 191 WELL CONSTRUCTION PERMIT NO. \_\_\_\_\_

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: SNEADS FERRY County: DANFORD  
COURT HOUSE RD., CAMP LEBJUNE Quadrangle No: NEW RIVER FOLLET  
(Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL, MARINE CORP BASE

DRILLING LOG G473-4

3. ADDRESS: OFFICE OF A/S FACILITIES, CAMP LEBJUNE NC

4. TOPOGRAPHY: draw, valley, slope, hilltop, flat (circle one)

DEPTH FROM TO FORMATION DESCRIPTION (USCS Class.)

5. USE OF WELL: H<sub>2</sub>O Sampling DATE: 7-6-84

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO

7. TOTAL DEPTH: 20.0 RIG TYPE OR METHOD: H.S.A.

8. FORMATION SAMPLES COLLECTED: YES  NO

9. CASING: Depth Inside Dia. Wall thick. type or weight/ft.

From 0 to 5.54 ft 2" Sch 40 PVC  
20.215 ML

10. GROUT: Depth Material Method  
From 0 to 3.54 ft sand-cement (2:1) poured

If additional space is needed, use back of form

11. SCREEN: Depth Dia. Type & Opening  
From 5.54 to 200 ft 2" Sch 40 PVC  
.010 slot

LOCATION SKETCH (Show distance to numbered roads, or other map reference points)

12. GRAVEL: Depth Size Material  
From 4.54 to 200 ft 4.54 Silica Sand  
Bentonite

13. WATER ZONES (depth): 3.4 - 20.0' (70)

14. STATIC WATER LEVEL: 3.4 ft. above/below top of casing  
Casing is 2.5 ft. above land surface ELEV: 94.22'

15. YIELD (gpm): 9 METHOD OF TESTING: Pumped

16. PUMPING WATER LEVEL: 3.4 ft.  
after 2 hours at 9 gpm.

17. CHLORINATION: Type NA Amount \_\_\_\_\_

18. WATER QUALITY: FAIR TEMPERATURE (°F) 71

19. PERMANENT PUMP: Date Installed NA

Type \_\_\_\_\_ Capacity \_\_\_\_\_ (gpm) HP \_\_\_\_\_

Make \_\_\_\_\_ Intake Depth \_\_\_\_\_

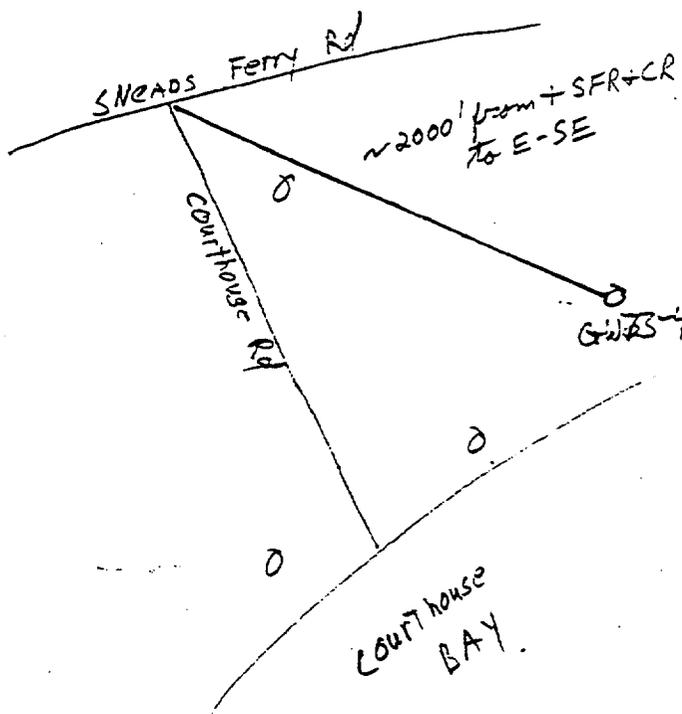
Airline Depth \_\_\_\_\_

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENT'S REQUIREMENTS AND RECOMMENDATIONS? yes

21. REMARKS

I do hereby certify that this well was constructed in accordance with N.C. Well Construction Regulations and Standards and that this well record is true and exact.

M. J. Neal 12-18-84  
SIGNATURE OF CONTRACTOR OF AGENT DATE



Doc No: CLEJ-00075-3.13-1/21/85

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT  
WELL RECORD DIVISION OF ENVIRONMENTAL MANAGEMENT

P. O. Box 27687 - RALEIGH, N.C. 27611 919-733-2020

DRILLING CONTRACTOR SYS CONSULTANTS, LTD. REG. NO. 191 WELL CONSTRUCTION PERMIT NO. \_\_\_\_\_

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: MIDWAY PARK County: ONSCOW  
HOLCOMB BLVD CAMP LEJEUNE Quadrangle No. CAMP LEJEUNE  
(Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL, MARINE CORP BASE DRILLING LOG GW74-1

3. ADDRESS: OFFICE OF AC/S FACILITIES, CAMP LEJEUNE, N.C. DEPTH FROM TO FORMATION DESCRIPTION

4. TOPOGRAPHY: draw, valley, slope, hilltop, flat (circle one) 28563 (USCS Class.)

5. USE OF WELL: H<sub>2</sub>O Sampling DATE: 7-4-84

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO 0-20.0 SM

7. TOTAL DEPTH: 21.42 RIG TYPE OR METHOD: H.S.A. 20-21 SC

8. FORMATION SAMPLES COLLECTED: YES  NO 23-24.5 SM

9. CASING: Depth Inside Dia. Wall thick. type  
From 0 to 6.96ft 2" Sch 40 PVC

10. GROUT: Depth Material Method  
From 0 to 4.96ft Sand-Cement (2:1) poured

11. SCREEN: Depth Dia. Type & Opening  
From 6.96 to 21.42ft 2" Sch 40 PVC  
.010 slot

If additional space is needed, use back of form  
LOCATION SKETCH  
(Show distance to numbered roads, or other map reference points)

12. GRAVEL: Depth Size Material  
From 5.0 to 21.42ft 40 5.0 Silica Sand  
Bentonite

13. WATER ZONES (depth): 7.0 - 21.42' (700)

14. STATIC WATER LEVEL: 7.0 ft. above/below top of casing  
Casing is 2.5 ft. above land surface ELEV: 100.13'

15. YIELD (gpm): 7 METHOD OF TESTING: PUMPED

16. PUMPING WATER LEVEL: 7.2 ft.  
after 1 hours at 7 gpm.

17. CHLORINATION: Type NA Amount \_\_\_\_\_

18. WATER QUALITY: GOOD TEMPERATURE (°F) 59

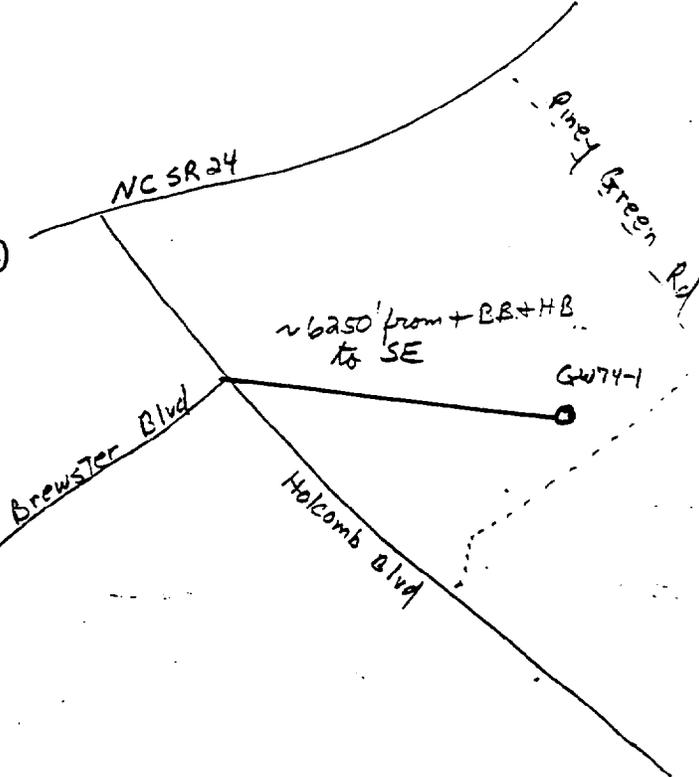
19. PERMANENT PUMP: Date Installed NA  
Type \_\_\_\_\_ Capacity \_\_\_\_\_ (gpm) HP \_\_\_\_\_  
Make \_\_\_\_\_ Intake Depth \_\_\_\_\_  
Airline Depth \_\_\_\_\_

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENT'S REQUIREMENTS AND RECOMMENDATIONS? yes

21. REMARKS

I do hereby certify that this well was constructed in accordance with N.C. Well Construction Regulations and Standards and that this well record is true and exact.

R. D. Moulton 12-18-84  
SIGNATURE OF CONTRACTOR OR AGENT DATE



NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT

WELL RECORD

DIVISION OF ENVIRONMENTAL MANAGEMENT

P. O. Box 27687 - RALEIGH, N.C. 27611 919-733-2020

DRILLING CONTRACTOR STS CONSULTANTS, Ltd. REG. NO. 191

WELL CONSTRUCTION PERMIT NO. \_\_\_\_\_

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: MIDWAY PARK County: ONSLOW  
HOLCOMB BLVD. CAMP LEJEUNE Quadrangle No. CAMP LEJEUNE  
(Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL, MARINE CORP GASE

DRILLING LOG GW74-2

3. ADDRESS: OFFICE OF AC/S FACILITIES, CAMP LEJEUNE N.C.

DEPTH FROM TO

FORMATION DESCRIPTION (USCS Class.)

4. TOPOGRAPHY: draw, valley, slope, hilltop, flat (circle one)

5. USE OF WELL: H<sub>2</sub>O Sampling DATE: 7-4-84

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO

0-3.0 SM

7. TOTAL DEPTH: 2396 RIG TYPE OR METHOD: H.S.A.

3-6.0 SP

8. FORMATION SAMPLES COLLECTED: YES  NO

6-26.5 SM

9. CASING: Depth Inside Dia. Wall thick. type or weight/ft.

From 0 to 9.1 ft 2" Sch 40 PVC

10. GROUT: Depth Material Method

From 0 to 4.5 ft sand-cement (2:1) poured

If additional space is needed, use back of form

11. SCREEN: Depth Dia. Type & Opening

From 9.5 to 23.96 ft 2" Sch 40 PVC  
.010 slot

LOCATION SKETCH (Show distance to numbered roads, or other map reference points)

12. GRAVEL: Depth Size Material

From 6.5 to 23.96 ft 4.5 6.5 Silica Sand  
Bentonite

13. WATER ZONES (depth): 9.1 - 23.96' (Toc)

14. STATIC WATER LEVEL: 9.1 ft. above/below top of casing

Casing is 2.5 ft. above land surface ELEV: 100.0'

15. YIELD (gpm): 8 METHOD OF TESTING: PUMPED

16. PUMPING WATER LEVEL: 9.0 ft.

after 2 hours at 8 gpm.

17. CHLORINATION: Type NA Amount \_\_\_\_\_

18. WATER QUALITY: GOOD TEMPERATURE (°F) 80

19. PERMANENT PUMP: Date Installed NA

Type \_\_\_\_\_ Capacity \_\_\_\_\_ (gpm) HP \_\_\_\_\_

Make \_\_\_\_\_ Intake Depth \_\_\_\_\_

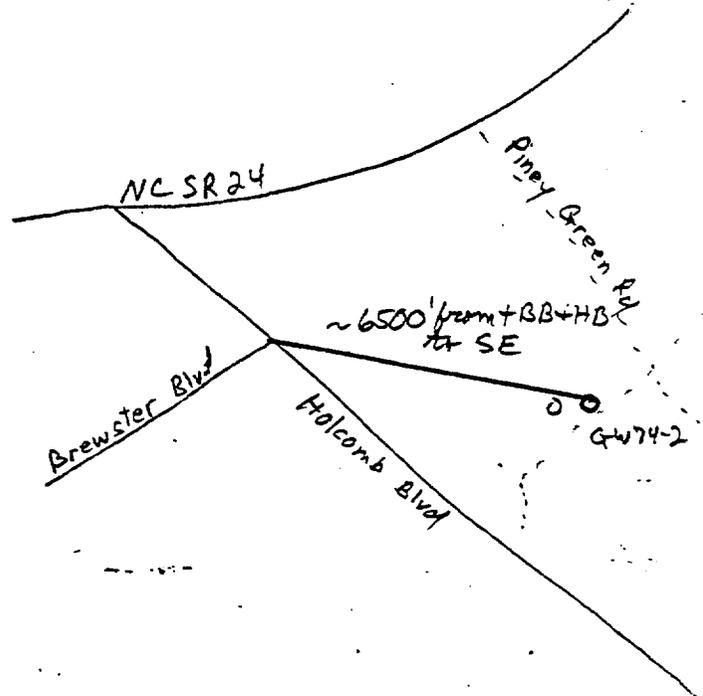
Airline Depth \_\_\_\_\_

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENT'S REQUIREMENTS AND RECOMMENDATIONS? Yea

21. REMARKS

I do hereby certify that this well was constructed in accordance with N.C. Well Construction Regulations and Standards and that this well record is true and exact.

R. D. King-Monahan 12-18-84  
SIGNATURE OF CONTRACTOR OF AGENT DATE



Doc No: CLEJ-00075 - 1/21/85

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT  
WELL RECORD DIVISION OF ENVIRONMENTAL MANAGEMENT

P. O. Box 27687 - RALEIGH, N.C. 27611 919-733-2020

DRILLING CONTRACTOR STS CONSULTANTS, LTD REG. NO. 191 WELL CONSTRUCTION PERMIT NO. \_\_\_\_\_

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: JACKSONVILLE, County: ONslow  
WHITE ST. CAMP LEJEUNE Quadrangle No. JACKSONVILLE SOUTH  
(Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL, MARINE CORPBASE

DRILLING LOG GW75-1

3. ADDRESS: OFFICE OF A/S FACILITIES, CAMP LEJEUNE, N.C.

4. TOPOGRAPHY: draw, valley, slope, hilltop flat (circle one)

DEPTH FROM TO FORMATION DESCRIPTION (USCS Class)

5. USE OF WELL: H<sub>2</sub>O Sampling DATE: 7-16-84

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO

7. TOTAL DEPTH: 20.12 RIG TYPE OR METHOD: H.S.A.

8. FORMATION SAMPLES COLLECTED: YES  NO

9. CASING: Depth Inside Dia. Wall thick. type or weight/ft.

From 0 to 5.64 ft 2" Sch 40 PVC

10. GROUT: Depth Material Method

From 0 to 2.42 ft sand cement (2:1) poured

11. SCREEN: Depth Dia. Type & Opening

From 5.64 to 20.12 ft 2" Sch 40 PVC  
.010 slot

12. GRAVEL: Depth Size Material

From 4.58 to 20.12 ft 2.42 4.58 Silica Sand  
Bentonite

13. WATER ZONES (depth): 7.25 - 20.12' (TOC)

14. STATIC WATER LEVEL: 7.05 ft. above below top of casing

Casing is 1.88 ft. above land surface ELEV: 108.06'

15. YIELD (gpm): 7.5 METHOD OF TESTING: PUMPED

16. PUMPING WATER LEVEL: 7.0 ft.

after 1 hours at 7.5 gpm.

17. CHLORINATION: Type NA Amount \_\_\_\_\_

18. WATER QUALITY: GOOD TEMPERATURE (°F) 79

19. PERMANENT PUMP: Date Installed NA

Type \_\_\_\_\_ Capacity \_\_\_\_\_ (gpm) HP \_\_\_\_\_

Make \_\_\_\_\_ Intake Depth \_\_\_\_\_

Airline Depth \_\_\_\_\_

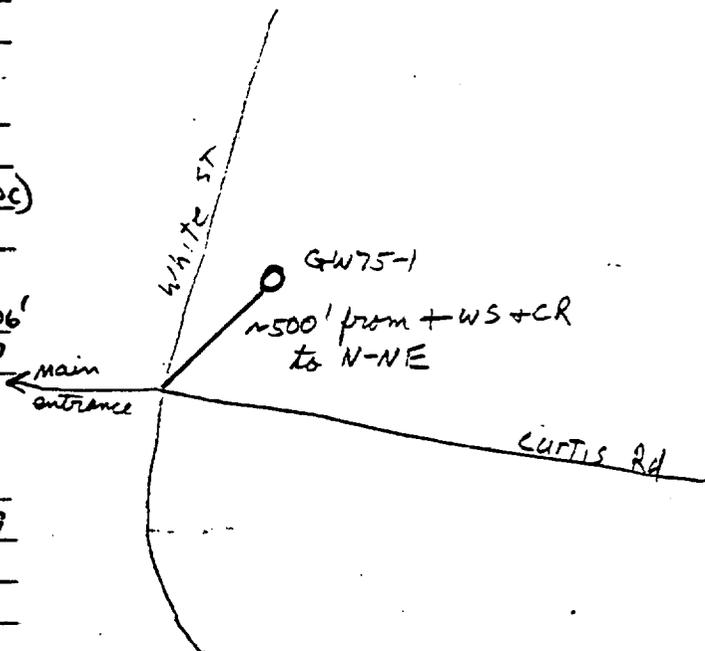
20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENT'S REQUIREMENTS AND RECOMMENDATIONS? yes

21. REMARKS

I do hereby certify that this well was constructed in accordance with N.C. Well Construction Regulations and Standards and that this well record is true and exact.

M. Krashy Mombberger 12-18-84  
SIGNATURE OF CONTRACTOR OF AGENT DATE

LOCATION SKETCH (Show distance to numbered roads, or other map reference points)



Doc No: CLEJ-00075 - -1/21/85

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT  
WELL RECORD DIVISION OF ENVIRONMENTAL MANAGEMENT

P. O. Box 27687 - RALEIGH, N.C. 27611 919-733-2020

DRILLING CONTRACTOR STS CONSULTANTS LTD, REG. NO. 191

WELL CONSTRUCTION PERMIT NO.

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: JACKSONVILLE County: ONSLOW  
CORTIS RD., CAMP LEJEUNE Quadrangle No: CAMP LEJEUNE  
(Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL, MARINE CORP BASE

DRILLING LOG GW75-2

3. ADDRESS: OFFICE OF AC/S FACILITIES, CAMP LEJEUNE, NC

DEPTH FROM TO

FORMATION DESCRIPTION (USCS Class.)

4. TOPOGRAPHY: draw, valley, slope, hilltop (Flat) (circle one)

5. USE OF WELL: H<sub>2</sub>O Sampling DATE: 7-16-84

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO

7. TOTAL DEPTH: 20.37 RIG TYPE OR METHOD: H.S.A.

8. FORMATION SAMPLES COLLECTED: YES  NO

9. CASING: Depth Inside Dia. Wall thick. or weight/ft. type

From 0 to 5.89 ft 2" Sch 40 PVC

10. GROUT: Depth Material Method

From 0 to 2.79 ft Sand Cement (2:1) poured

11. SCREEN: Depth Dia. Type & Opening

From 5.89 to 20.37 ft 2" Sch 40 PVC .010 slot

If additional space is needed, use back of form

LOCATION SKETCH (Show distance to numbered roads, or other map reference points)

12. GRAVEL: Depth Size Material

From 4.17 to 20.37 ft Silica Sand  
2.79 4.17 Bentonite

13. WATER ZONES (depth): 8.0 - 20.37' (100)

14. STATIC WATER LEVEL: 8.0 ft. above top of casing below

Casing is 2.5 ft. above land surface ELEV: 111.75' main entrance

15. YIELD (gpm): 8.5 METHOD OF TESTING: PUMP TEST

16. PUMPING WATER LEVEL: 8.0 ft.

after 1 hours at 8.5 gpm.

17. CHLORINATION: Type NA Amount

18. WATER QUALITY: GOOD TEMPERATURE (°F) 80

19. PERMANENT PUMP: Date Installed NA

Type Capacity (gpm) HP

Make Intake Depth

Airline Depth

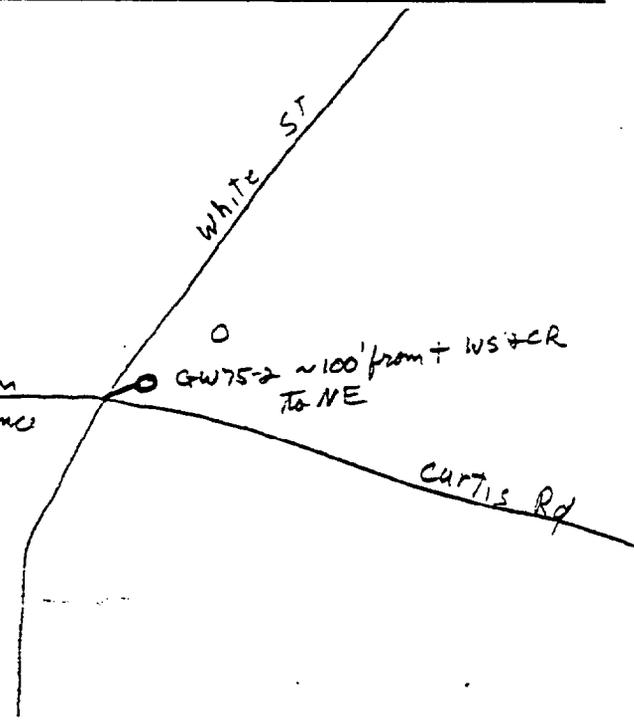
20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENT'S REQUIREMENTS AND RECOMMENDATIONS? Yes

21. REMARKS

I do hereby certify that this well was constructed in accordance with N.C. Well Construction Regulations and Standards and that this well record is true and exact.

Signature: R. J. Kish Mombert DATE: 12-18-84

SIGNATURE OF CONTRACTOR OF AGENT DATE



Doc No: CLEJ-00075-3.13-1/2/85

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT

WELL RECORD

DIVISION OF ENVIRONMENTAL MANAGEMENT

P. O. Box 27687 - RALEIGH, N.C. 27611 919-733-2020

DRILLING CONTRACTOR STS CONSULTANTS, Ltd. REG. NO. 191

WELL CONSTRUCTION PERMIT NO.

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: JACKSONVILLE County: ONSLOW  
Curtis Rd, Camp Lejeune Quadrangle No. JACKSONVILLE SOUTH  
(Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL, MARINE CORPS BASE

DRILLING LOG GW75-3

3. ADDRESS: OFFICE OF AC/S FACILITIES, CAMP LEJEUNE, N.C.

4. TOPOGRAPHY: draw, valley, slope, hilltop, flat (circle one) DEPTH FROM TO FORMATION DESCRIPTION (USCS Class.)

5. USE OF WELL: H2O Sampling DATE: 7-16-84

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO

7. TOTAL DEPTH: 19.00 RIG TYPE OR METHOD: H.S.A

8. FORMATION SAMPLES COLLECTED: YES NO

9. CASING: Depth Inside Dia. Wall thick. type or weight/ft.

From 0 to 4.54 ft 2" Sch 40 PVC

10. GROUT: Depth Material Method

From 0 to 2.54 ft Sand-cement (6:1) poured

11. SCREEN: Depth Dia. Type & Opening

From 4.54 to 19.0 ft 2" Sch 40 PVC .010 slot

LOCATION SKETCH (Show distance to numbered roads, or other map reference points)

12. GRAVEL: Depth Size Material

From 3.54 to 19.0 ft Silica Sand  
2.54 3.54 Bentonite

13. WATER ZONES (depth): 9.16-19.0 (TOL)

14. STATIC WATER LEVEL: 9.16 ft. above/below top of casing

Casing is 2.5 ft. above land surface ELEV: 112.04'

15. YIELD (gpm): 8.5 METHOD OF TESTING: RUMABO

16. PUMPING WATER LEVEL: 9.1 ft.

after 1 hour at 8.5 gpm.

17. CHLORINATION: Type NA Amount

18. WATER QUALITY: GOOD TEMPERATURE (°F) 76

19. PERMANENT PUMP: Date Installed NA

Type Capacity (gpm) HP

Make Intake Depth

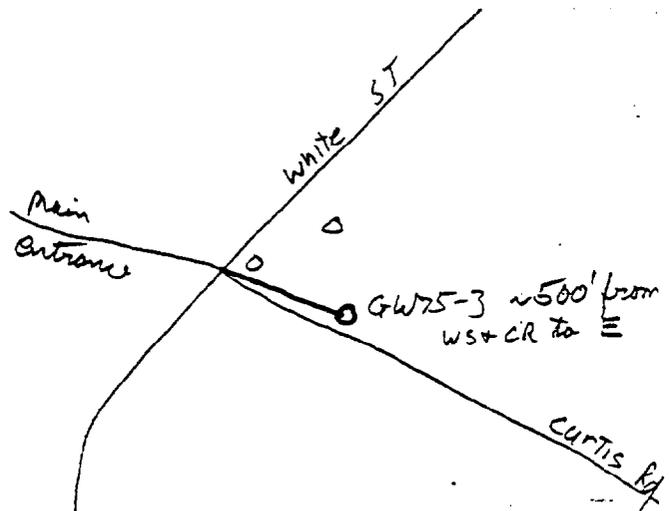
Airline Depth

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENTS REQUIREMENTS AND RECOMMENDATIONS? YES

21. REMARKS

I do hereby certify that this well was constructed in accordance with N.C. Well Construction Regulations and Standards and that this well record is true and exact.

R. J. [Signature] 12-18-84  
SIGNATURE OF CONTRACTOR OF AGENT DATE



Doc No: CLEJ-00075-3.13-1/21/85

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT  
WELL RECORD DIVISION OF ENVIRONMENTAL MANAGEMENT

P. O. Box 27687 - RALEIGH, N.C. 27611 919-733-2020

DRILLING CONTRACTOR STS CONSULTANTS, Ltd. REG. NO. 191 WELL CONSTRUCTION PERMIT NO. \_\_\_\_\_

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: JACKSONVILLE County: ONSLOW  
CURTIS RD, CAMP LEBEUNE Quadrangle No. JACKSONVILLE SOUTH  
(Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL, MARINE CORP BASE

DRILLING LOG GW76-2

3. ADDRESS: OFFICE OF A/C'S FACILITIES, CAMP LEBEUNE M.C.

DEPTH FROM TO

FORMATION DESCRIPTION (USCS Class.)

4. TOPOGRAPHY: draw, valley, slope, hilltop, flat (circle one)

5. USE OF WELL: H<sub>2</sub>O Sampling DATE: 7-16-84

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO

7. TOTAL DEPTH: 21.0 RIG TYPE OR METHOD: H.S.A.

8. FORMATION SAMPLES COLLECTED: YES  NO

9. CASING: Depth Inside Dia. Wall thick. type or weight/ft.

From 0 to 6.2 ft 2" Sch 40 PVC

10. GROUT: Depth Material Method

From 0 to 4.08 ft sand-cement (2:1) poURED

11. SCREEN: Depth Dia. Type & Opening

From 6.2 to 21.0 ft 2" Sch 40 PVC  
.010 slot

12. GRAVEL: Depth Size Material

From 5.5 to 21.0 ft 4.08 5.5 Silica Sand  
Bentonite

13. WATER ZONES (depth): 4.74 - 21.0' (TOC)

14. STATIC WATER LEVEL: 4.74 ft. above/below top of casing  
Casing is 2.5 ft. above land surface ELEV: 100.0

15. YIELD (gpm): 9.0 METHOD OF TESTING: PUMPED

16. PUMPING WATER LEVEL: 4.7 ft.  
after 1 hours at 9.0 gpm.

17. CHLORINATION: Type NA Amount -

18. WATER QUALITY: GOOD TEMPERATURE (°F) 66

19. PERMANENT PUMP: Date Installed NA

Type \_\_\_\_\_ Capacity \_\_\_\_\_ (gpm) HP \_\_\_\_\_

Make \_\_\_\_\_ Intake Depth \_\_\_\_\_

Airline Depth \_\_\_\_\_

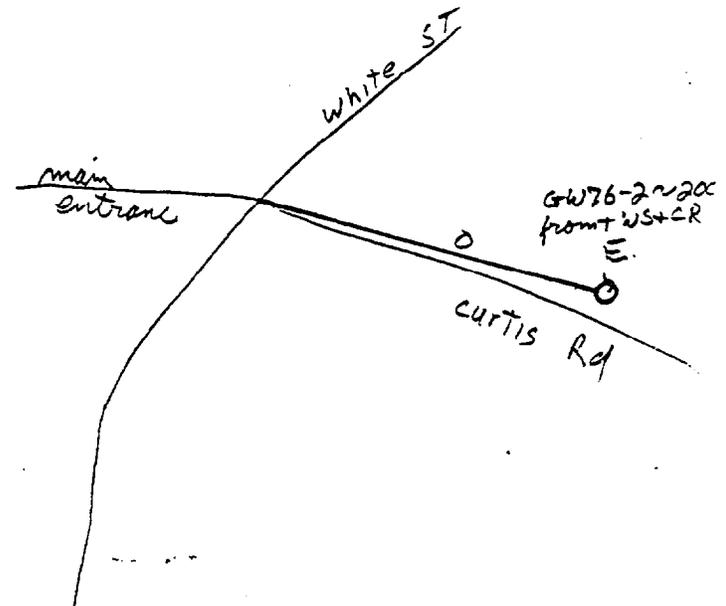
20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENTS REQUIREMENTS AND RECOMMENDATIONS? yes

21. REMARKS

I do hereby certify that this well was constructed in accordance with N.C. Well Construction Regulations and Standards and that this well record is true and exact.

DJ Kunkel 12-18-84  
SIGNATURE OF CONTRACTOR OF AGENT DATE

LOCATION SKETCH (Show distance to numbered roads, or other map reference points)



NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT  
WELL RECORD DIVISION OF ENVIRONMENTAL MANAGEMENT

P. O. Box 27687 - RALEIGH, N.C. 27611 919-733-2020

DRILLING CONTRACTOR STS CONSULTANTS, LTD REG. NO. 191 WELL CONSTRUCTION PERMIT NO. \_\_\_\_\_

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: JACKSONVILLE County: ONSLOW  
CURTIS RD CAMP LEBONE Quadrangle No: JACKSONVILLE SOUTH  
(Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL, MARINE CORP BASE

DRILLING LOG 76-1

3. ADDRESS: OFFICE OF AC/S FACILITIES, CAMP LEBONE, N.C.

4. TOPOGRAPHY: draw, valley, slope, hilltop (flat/circle one) 28340 DEPTH FROM TO FORMATION DESCRIPTION (USCS Class.)

5. USE OF WELL: H<sub>2</sub>O Sampling DATE: 7-16-84

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO 0-4.75 CL

7. TOTAL DEPTH: 18.29 RIG TYPE OR METHOD: H.S.A. 4.75-21.5 SM

8. FORMATION SAMPLES COLLECTED: YES  NO

9. CASING: Depth Inside Dia. Wall thick. type or weight/ft.

From 0 to 381 ft 2" Sch 40 PVC

10. GROUT: Depth Material Method

From 0 to ft Sand-cement(2:1) poured

If additional space is needed, use back of form

11. SCREEN: Depth Dia. Type & Opening

From 381 to 18.29 ft 2" Sch 40 PVC  
.010 slot

LOCATION SKETCH

(Show distance to numbered roads, or other map reference points)

12. GRAVEL: Depth Size Material

From 2.75 to 18.29 ft 1.95 2.75 Silver Sand  
Bentonite

13. WATER ZONES (depth): 9.29 - 18.29' (TO)

14. STATIC WATER LEVEL: 9.29 ft. above top of casing below

Casing is 2.5 ft. above land surface ELEV: 108.59'

15. YIELD (gpm): 7.5 METHOD OF TESTING: PUMPED

16. PUMPING WATER LEVEL: 9.25 ft.

after 2 hours at 7.5 gpm.

17. CHLORINATION: Type NA Amount -

18. WATER QUALITY: GOOD TEMPERATURE (°F) 75

19. PERMANENT PUMP: Date Installed NA

Type \_\_\_\_\_ Capacity \_\_\_\_\_ (gpm) HP \_\_\_\_\_

Make \_\_\_\_\_ Intake Depth \_\_\_\_\_

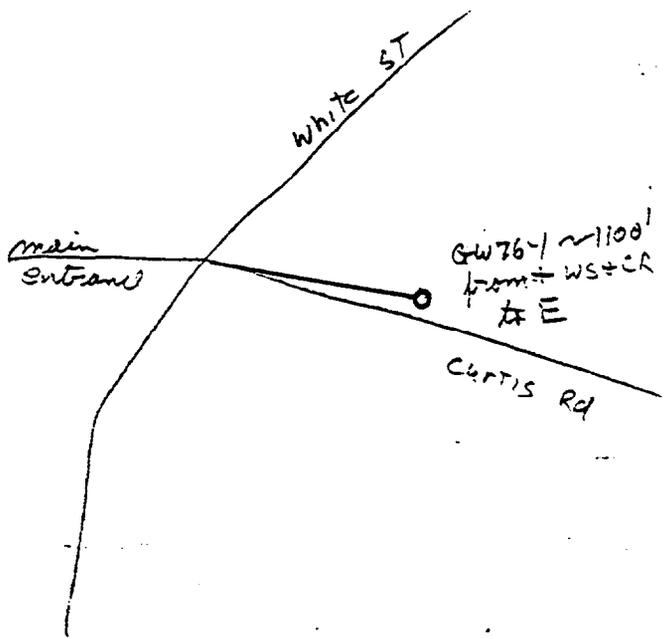
Airline Depth \_\_\_\_\_

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENT'S REQUIREMENTS AND RECOMMENDATIONS? yes

21. REMARKS

I do hereby certify that this well was constructed in accordance with N.C. Well Construction Regulations and Standards and that this well record is true and exact.

R. K. ... 12-18-84  
SIGNATURE OF CONTRACTOR OF AGENT DATE



1 February 1991

To: Stephanie Del Re Johnson  
From: Laurie Boucher

Subj: CAMP LEJEUNE SITE MANAGEMENT PLAN,

Sub A & 76  
new  
1.01 Add  
①

1. I was looking over the Camp Lejeune IR S. (SSR) and noticed a few discrepancies between contained therein and the proposed Site Manag. discussed a few weeks ago. Specifically:

a) Site 76 (MCAS Curtis Road Site). This site was allegedly used as a drum disposal area at one time. However, the SSR indicates that buried metallic objects were not detected during the geophysical survey which was conducted, and analytes of interest were not detected during both the 1984/1986 groundwater sampling efforts. The SSR makes the recommendation that no further investigations are warranted at this site. EPA, in their November 1990 response to the SSR, did not argue with this recommendation. Based on this data, the Site Management Plan probably does not need to address Site 76 at this time.

b) Site "A" (MCAS Officers' Housing Area). The groundwater, surface water, and sediment samples analyzed at Site "A" did not indicate any contaminants related to the tentatively identified wastes (i.e. hospital wastes). The SSR recommends no further action. You mentioned that ATSDR expressed notable concern over this site. What is their basis of concern?

2. I'll give you a call Monday morning to discuss these two sites.