



**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> <u>(micromhos/centimeter)</u>	<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

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 GW1-1

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

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

DEPTH FROM	TO	FORMATION DESCRIPTION (USCS classification)
0-1.5		SM
1.5-3.0		SM-SC
3.0-7.5		SC-SM
7.5-10.5		SM
15-16		SM-SC
16-16.5		limestone marl LSO
20-20.5		SM
20.5-20.8		stiff clay lime
20.8-21.5		limestone marl
25-26.5		SP

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. or weight/ft. type

From 0 to 7.32 ft 2" Sch 40 PVC

10. GROUT: Depth Material Method

From 0 to 5.32 ft sand cement (2:1) poured

11. SCREEN: Depth Dia. Type & Opening

From 7.32 to 21.78 ft 2" Sch 40 PVC  
.010 slot

12. GRAVEL: Depth Size Material

From 6.32 to 11.78 ft Silica Sand  
5.32 6.32 Bentonite

13. WATER ZONES (depth): 9.1 - 21.78

FROM TOP OF CASING (TOC)

14. STATIC WATER LEVEL: 2.1 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 \_\_\_\_\_

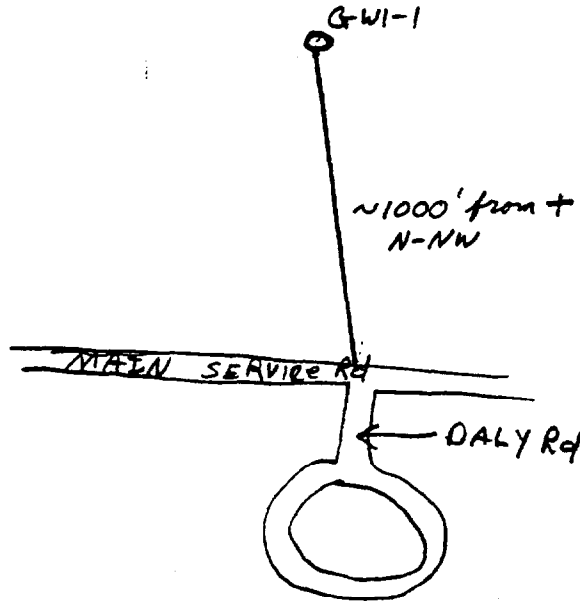
20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENT'S REQUIREMENTS AND RECOMMENDATIONS? Yes

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. K. M...-M...-M... 12/17/84  
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: MIDWAY PARK County: ONSLOW  
MAIN SERVICE RD 0, CAMP LETJUNE Quadrangle No. CAMP LETJUNE  
 (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 LETJUNE, N.C.

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

DEPTH FROM	TO	FORMATION DESCRIPTION (USCS Classification)
0-1.5		SP-SM
1.5-7.5		SM
7.5-8.0		SM-SC
8.0-9.0		SC
9.0-10.5		SM
15.0-16.5		SM-SC
15.5-16.5		limestone med

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: 21.95' RIG TYPE OR METHOD: H.S.A.

8. FORMATION SAMPLES COLLECTED: YES  NO

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

From 0 to 9.7 ft 2" Sch 40 PVC

10. GROUT: Depth Material Method

From 0 to 15.73 ft sand-cement (2:1) poured

11. SCREEN: Depth Dia. Type & Opening

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

12. GRAVEL: Depth Size Material

From 15.73 to 21.95 ft silica sand  
16.73 15.23 Bentonite

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

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

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 \_\_\_\_\_

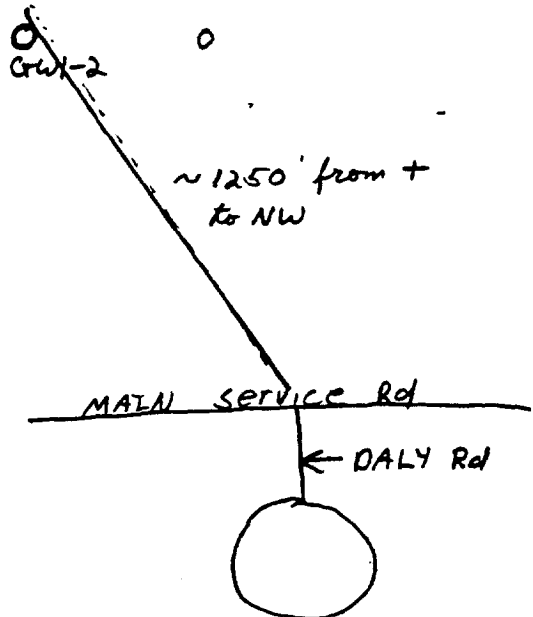
20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENTS REQUIREMENTS AND RECOMMENDATIONS? yes

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. ... 12/17/84  
SIGNATURE OF CONTRACTOR OR 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: MIDWAY PARK County: ONSLAW  
MAIN SERVICE RD. CAMP LETEVNE Quadrangle No. CAMP LETEVNE  
(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 LETEVNE, N.C.

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

DEPTH FROM	TO	FORMATION DESCRIPTION (USCS Classification)
0-15		SM-SC
15-16.5		SM
20.0-26.5		SC

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

9. CASING: Depth Inside Dia. Wall thick. or weight/ft. type  
From 0 to 10.44 ft. 2" Sch 40 PVC

10. GROUT: Depth Material Method  
From 0 to 6.5 ft. sand cement (2:1) poured

11. SCREEN: Depth Dia. Type & Opening  
From 10.44 to 14.94 ft. 2" Sch 40 PVC  
1010 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 9.33 to 25.38 ft. Silica Sand  
6.50 - 9.33 Bentonite

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

14. STATIC WATER LEVEL: 14.6 ft. above/below 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 \_\_\_\_\_

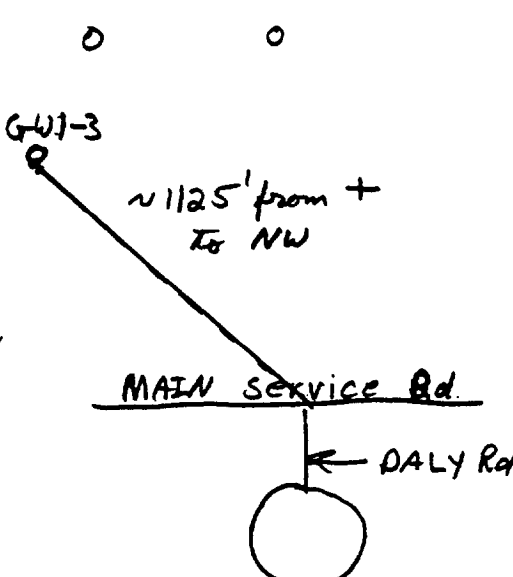
Airline Depth \_\_\_\_\_

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE 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. N. Hinkle-Thompson 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 RD. CAMP LEJEUNE Quadrangle No. CAMP LEJEUNE  
(Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDER GENERAL, MARINE CORP RES

DRILLING LOG GW1-4

3. ADDRESS: OFFICE OF AC/F FACILITIES, CAMP LEJEUNE, N.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: 7-5-84

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO

7. TOTAL DEPTH: 2996 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>15</u> ft	<u>2"</u>	<u>Sch 40</u>	<u>PVC</u>

Depth	Material	Method
From <u>0</u> to <u>11.8</u> ft	<u>Sand-concrete (2:1)</u>	<u>pooured</u>

Depth	Dia.	Type & Opening
From <u>15</u> to <u>2996</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)

Depth	Size	Material
From <u>135</u> to <u>2996</u> ft		<u>Silica Sand</u> <u>banonite</u>
<u>1125</u> <u>135</u>		

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

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 hour at 7.5 gpm.

17. CHLORINATION: Type NA Amount -

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

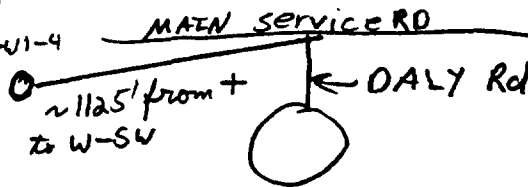
19. PERMANENT PUMP: Date Installed NA  
Type \_\_\_\_\_ Capacity \_\_\_\_\_ (gpm) HP \_\_\_\_\_  
Make \_\_\_\_\_ Intake Depth \_\_\_\_\_  
Airline Depth \_\_\_\_\_

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE 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. ... 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 RD., CAMP LEJEUNE Quadrangle No. CAMP LEJEUNE  
(Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL, MARINE CORPS RACE

DRILLING LOG GW-5

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: 7-5-84

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO

7. TOTAL DEPTH: 29.48 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 15.02 ft 1" SCH 40 PVC

10. GROUT: Depth Material Method  
From 0 to 13.02 ft Sand-Cement (3:1) pooured

11. SCREEN: Depth Dia. Type & Opening  
From 15.02 to 14.4 ft 1" SCH 40 PVC  
.010 slot

12. GRAVEL: Depth Size Material  
From 14.02 to 29.48 ft 1/2" 1/4" Silica Sand  
Bentonite

13. WATER ZONES (depth): 14.0 - 29.48' (TOC)

14. STATIC WATER LEVEL: 14.0 ft. above top of casing  
below 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 \_\_\_\_\_

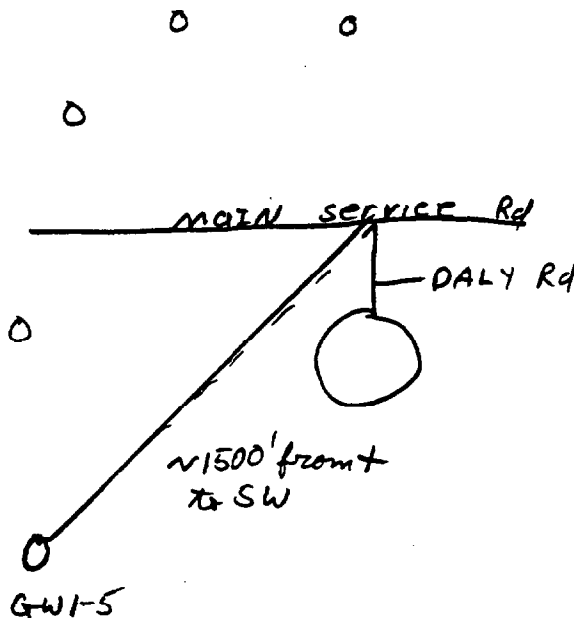
20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENTS REQUIREMENTS AND RECOMMENDATIONS? Yes

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.

STS Consultants SIGNATURE OF CONTRACTOR OF AGENT DATE 12-18-84

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

2. OWNER: COMMANDING GENERAL, MARINE CORPS BASE

DRILLING LOG GW1-6

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

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

DEPTH FROM TO

FORMATION DESCRIPTION (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

0-16.5 SM

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

20-26.5 CL

8. FORMATION SAMPLES COLLECTED: YES  NO

25-31.5 SM

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

From 0 to 14.99ft. 2" Sch 40 PVC

10. GROUT: Depth Material Method

From 0 to 14.9ft. Sand-Cement (2:1) poured

If additional space is needed, use back of form

11. SCREEN: Depth Dia. Type & Opening

From 14.99 to 29.42ft. 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 29.42ft. 11.9 13.6 Silica Sand  
 Bentonite

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

14. STATIC WATER LEVEL: 15.6 ft. above/below top of casing

Casing is 2.88 ft. above land surface ELEV: 103.39'

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

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 \_\_\_\_\_

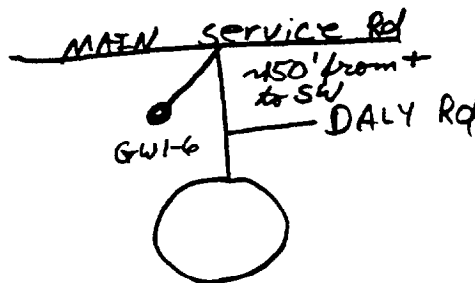
Airline Depth \_\_\_\_\_

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENTS REQUIREMENTS AND RECOMMENDATIONS? Y/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. J. Moulton 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: SNEADS FERRY County: ONSDW  
RANGE RD., CAMP DEWEENE Quadrangle No. SNEADS FERRY  
(Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL, MARINE CAMP BASE

DRILLING LOG GW68-3R

3. ADDRESS: OFFICE OF A&S FACILITIES, CAMP DEWEENE 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

0-4.5 SM

7. TOTAL DEPTH: 18.21 RIG TYPE OR METHOD: H.S.A.

4.5-6.0 SC-SM

8. FORMATION SAMPLES COLLECTED: YES  NO

6.0-16.5 SM

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

20.-21.5 CL

From 0 to 3.73 ft. 2" Sch 40 PVC

10. GROUT: Depth Material Method

From 0 to 1.58 ft. sand cement (4:1) poured

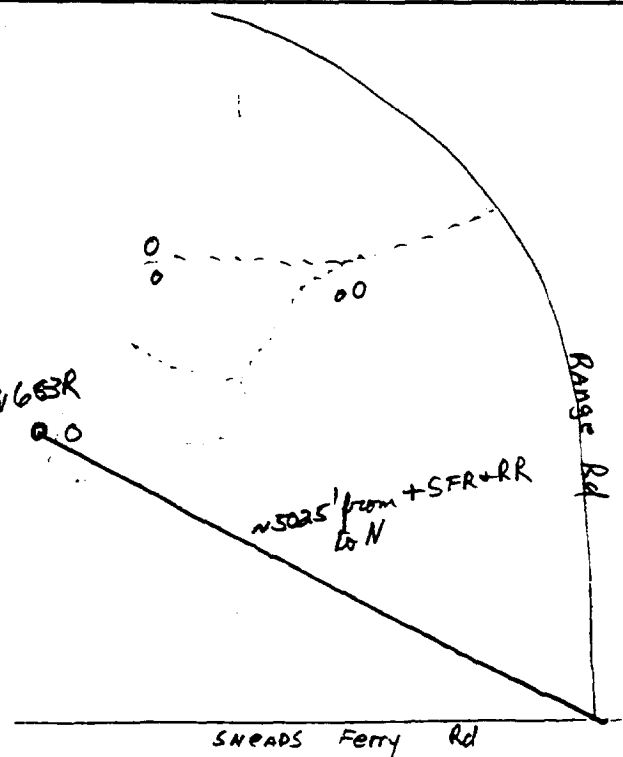
\*If additional space is needed, use back of form

11. SCREEN: Depth Dia. Type & Opening

From 3.73 to 18.21 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 2.71 to 15.21 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 top of casing

below Casing is 2.5 ft. above land surface ELEV: 77.45'

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

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.

DJ Kesh Mombaye 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: SNEADS FERRY County: ONSLOW  
RT 210 CAMP LEJEUNE Quadrangle No. SNEADS FERRY  
(Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL, MARINE CORPS BASE

DRILLING LOG GW69-1

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 Classification)
0-5.5	SM	
5.5-6.0	CL	
6.0-7.5	SM	
7.5-8.5	SC-SM	
8.5-21.5	CL	

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: 21.04 RIG TYPE OR METHOD: HSA

8. FORMATION SAMPLES COLLECTED: YES  NO

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

From 0 to 1.5 ft 2" Sch 40 PVC

10. GROUT: Depth Material Method

From 0 to 4.29 ft Sand-cement (2:1) poored

11. SCREEN: Depth Dia. Type & Opening

From 6.5 to 21.04 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)

STONE BAY

12. GRAVEL: Depth Size Material

From 5.42 to 21.04 ft 4.75 5.42 Silica Sand  
benstonite

13. WATER ZONES (depth): 8.93 - 21.04' (TOC)

14. STATIC WATER LEVEL: 8.93 ft. above top of casing  
2.5 ft. below land surface ELEV: 94.33

15. YIELD (gpm): 4 METHOD OF TESTING: ANM 2000

16. PUMPING WATER LEVEL: 10.8 ft. after 1 hours at 4 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 \_\_\_\_\_

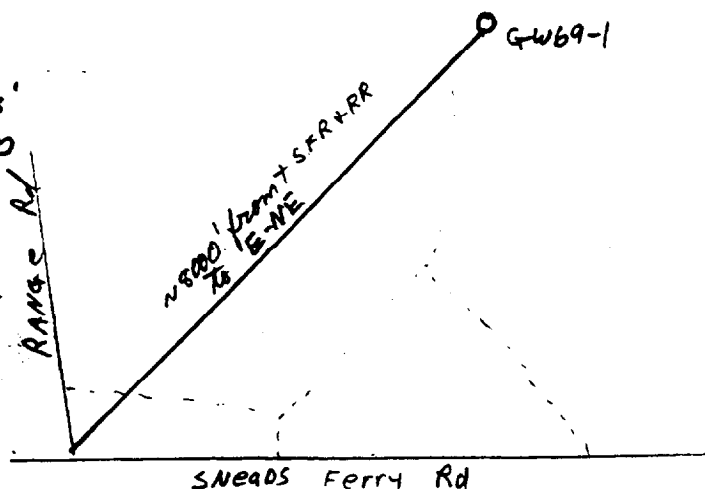
Airline Depth \_\_\_\_\_

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.

RJ Kuhl-Moninger 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: SNEADS FERRY County: ONSLOW  
RT 210, CAMP LETSUNG Quadrangle No. SNEADS FERRY  
(Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL, MARINE CORP BASE

DRILLING LOG G-469-2

3. ADDRESS: OFFICE OF AC'S FACILITIES, CAMP LETSUNG 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 Dia. Wall thick. or weight/ft. type

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. <sup>above</sup>/<sub>below</sub> top of casing

Casing is 2.5 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 \_\_\_\_\_

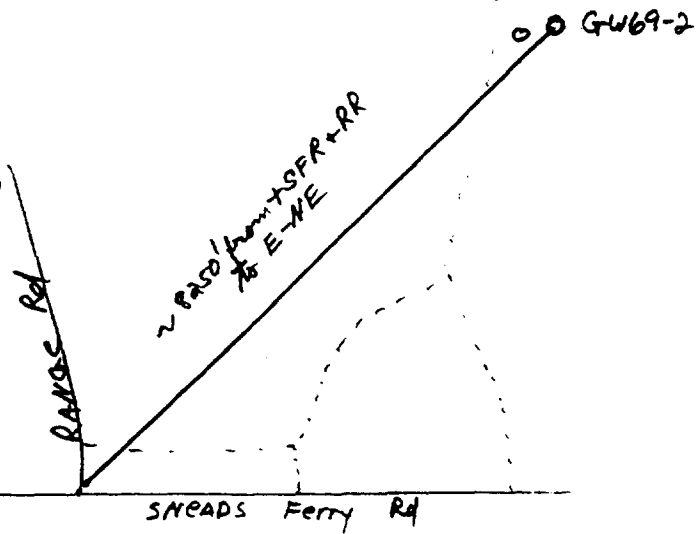
Airline Depth \_\_\_\_\_

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE 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.

W. M. Mendenhall 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 Dia. Wall thick. or weight/ft. type

From 0 to 587ft 2" SCH 40 PVC

10. GROUT: Depth Material Method

From 0 to 371ft sand cement (1) poured

\*If additional space is needed, use back of form

11. SCREEN: Depth Dia. Type & Opening

From 587 to 2035ft 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 4" silica sand  
3.71 4.71 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

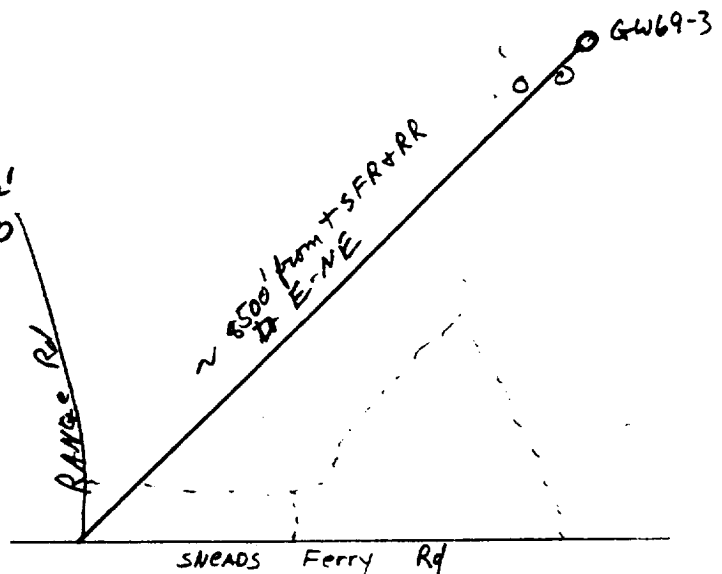
Airline Depth

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.

M. J. ... 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, Inc. 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.

4. TOPOGRAPHY: draw, valley, slope, hilltop, flat (circle one) SP 240 DEPTH FROM \_\_\_\_\_ TO \_\_\_\_\_ FORMATION DESCRIPTION (USCS Class.)

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. type or weight/ft. 20-21.5 ML

From 0 to 577 ft 2" Sch 40 PVC

10. GROUT: Depth Material Method  
From 0 to 35 ft Sand-Cement (2:1) pooured

11. SCREEN: Depth Dia. Type & Opening  
From 577 to 2025 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)

Stone Bay

12. GRAVEL: Depth Size Material  
From 4.54 to 20.25 ft 3.5 4.54 Silica Sand  
Bentonite

13. WATER ZONES (depth): 8.94 - 20.25 (TOD)

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 \_\_\_\_\_

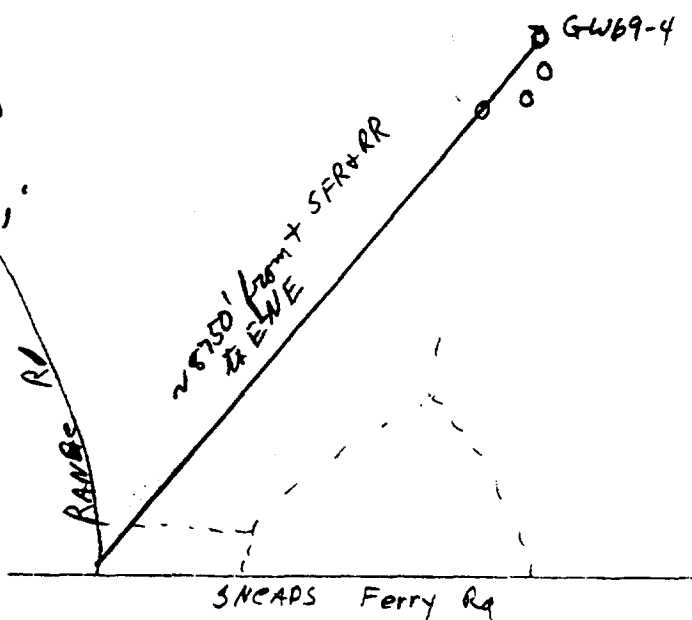
Airline Depth \_\_\_\_\_

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.

Rajiv Mombaya 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: SNEADS FERRY County: DAVISON  
RT 210, CAMP LEJUNE Quadrangle 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 A/S FACILITIES, CAMP LEJUNE, 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: 7-18-84

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO

0-5.5 SM

7. TOTAL DEPTH: 20.98 RIG TYPE OR METHOD: H.S.A.

5.5-6 SC-SM

8. FORMATION SAMPLES COLLECTED: YES  NO

6.0-10.25 SM

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

10.25-10.5 SC-SM

From 0 to 6.5 ft. 2" Sch 40 PVC

15.-16.5 CL

20.-21.5 CL

10. GROUT: Depth Material Method  
From 0 to 371 ft. sand-cement 1:1 pooured

If additional space is needed, use back of form

11. SCREEN: Depth Dia. Type & Opening  
From 6.5 to 20.98 ft. 2" Sch 40 PVC  
0.10" slot

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

12. GRAVEL: Depth Size Material  
From 5.33 to 20.98 ft. 3/4 5.33 Silica Sand  
Barite

13. WATER ZONES (depth): 11.45 - 20.98' (100)

14. STATIC WATER LEVEL: 11.45 ft. above top of casing  
below 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 \_\_\_\_\_

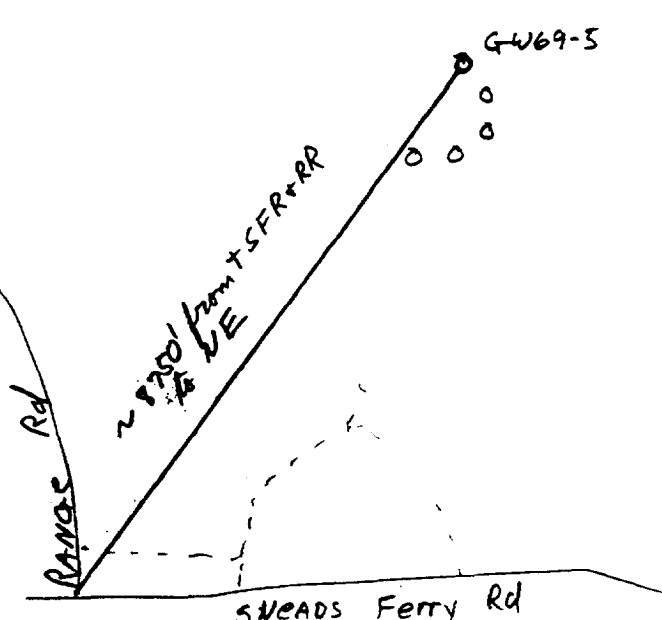
Airline Depth \_\_\_\_\_

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE 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.

John Mombene 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: SNEADS FERRY County: ONSCOW  
RT 210, CAMP LEBLANC Quadrangle No. SNEADS FERRY  
(Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL, MARINE CORP BASE

DRILLING LOG GW69-6

3. ADDRESS: OFFICE OF A&S FACILITIES, CAMP LEBLANC, 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: 7-17-84

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 Wall thick. type  
Dia. or weight/ft.

From 0 to 16.37 ft. 2" Sch 40 PVC

15.-16.5 ML

20.-21.5 CL

25.-26.5 CL

30.-31.5 SM

10. GROUT: Depth Material Method

From 0 to 14.37 ft. cement (1) poored

\* 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  
0.10 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. Silica Sand  
14.37 15.37 Bentonite

13. WATER ZONES (depth): 27.75-30.83' (Toc)

14. STATIC WATER LEVEL: 27.75 ft. above top of casing below

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: FMR TEMPERATURE (°F) 65

19. PERMANENT PUMP: Date Installed NA

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

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

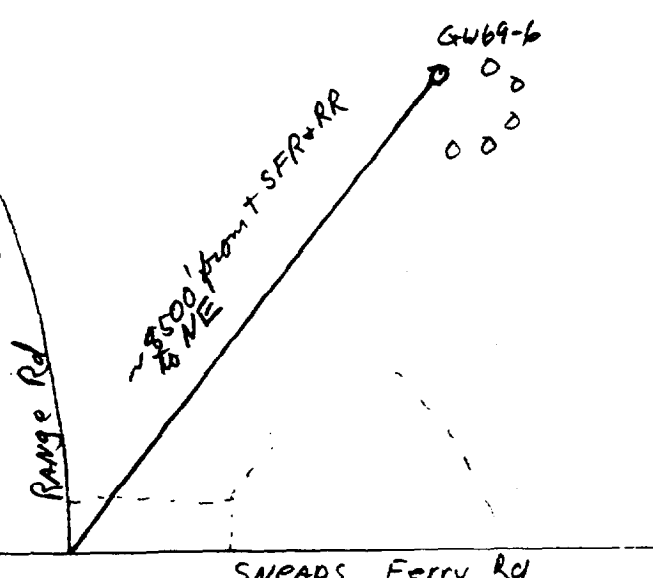
Airline Depth \_\_\_\_\_

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.

R. J. Knud Mombauer 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 SIS 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 GW69-7

3. ADDRESS: OFFICE OF A/C'S FACILITIES, CAMP LEVINE MC.

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

7. TOTAL DEPTH: 20.69 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 621 ft 2" Sch 40 PVC

10. GROUT: Depth Material Method

From 0 to 271 ft Sand cement (2:1) pooured

11. SCREEN: Depth Dia. Type & Opening

From 621 to 2069 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)

STONE BAY

12. GRAVEL: Depth Size Material

From 508 to 2069 ft 271 508 Silica Sand  
Bentonite

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 \_\_\_\_\_

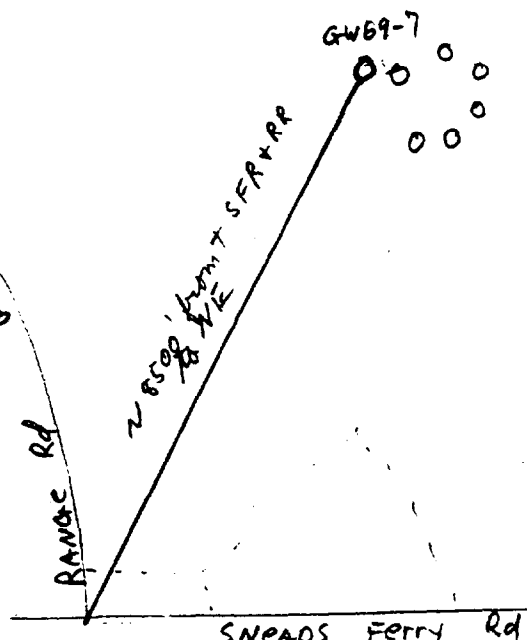
Airline Depth \_\_\_\_\_

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENTS 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.

P.J. Knud-Moninger 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 JTS 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 LEBONE Quadrangle No. SNEADS FERRY  
(Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL, MARINE CORPS

DRILLING LOG GW69-8

3. ADDRESS: OFFICE OF AC/S FACILITIES, CAMP LEBONE, 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 0-3.25 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 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) poured

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

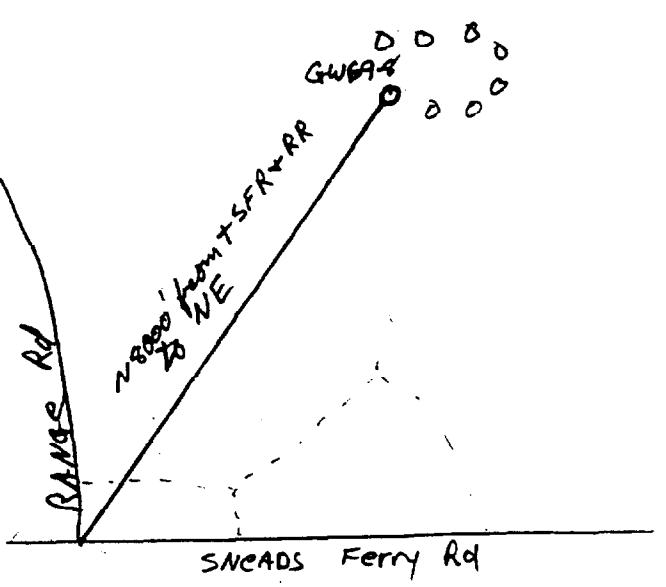
Make Intake Depth

Airline Depth

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE 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 Mombay 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 LLC 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 BEVINE Quadrangle no. NEWS RIVER TULOT  
(Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL, MARINE CORPS

DRILLING LOG GW73-1

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

4. TOPOGRAPHY: draw, valley, slope, hilltop (circle one) 2 PFD  
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 0-16.5 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. or weight/ft. 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  
benonite

13. WATER ZONES (depth): 4.3 - 19.57' (TOC)

14. STATIC WATER LEVEL: 4.3 ft. above top of casing  
below 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

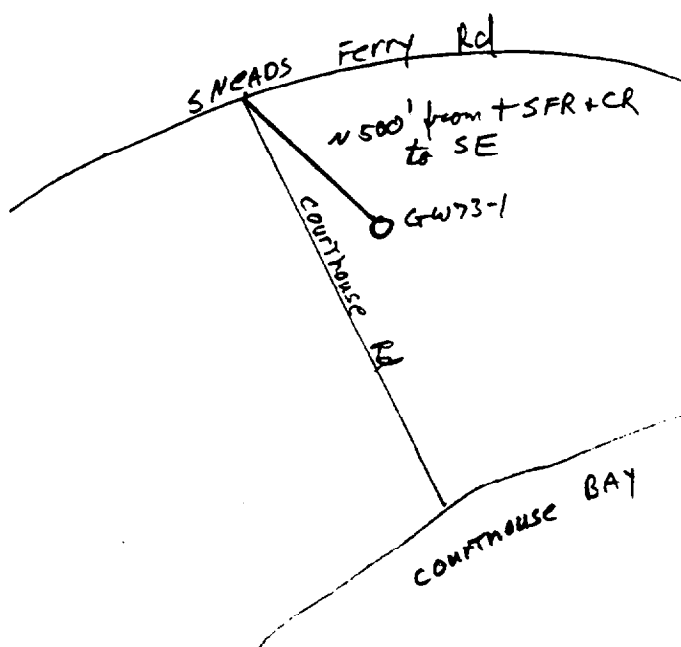
Type \_\_\_\_\_ Capacity \_\_\_\_\_ (gpm) HP \_\_\_\_\_  
Make \_\_\_\_\_ Intake Depth \_\_\_\_\_  
Airline Depth \_\_\_\_\_

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.

RJ Kinsley Trombace 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: SNEADS FERRY County: ONslow  
COURT HOUSE RD, CAMP LEJUNE Quadrangle No. NEW RIVER FOLET  
 (Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL, MARINE CORPS BASE

DRILLING LOG GW73-2

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

7. TOTAL DEPTH: 19.42 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 4.99ft 2" Sch 40 PVC

0-5	SM
5-1.25	ML
1.25-9.0	SM
9.0-9.25	CL
15.-16.	SM
16.-16.5	CH
20.-21.5	CH

10. GROUT: Depth Material Method

From 0 to 2.75ft sand-cement (2:1) poored

\* If additional space is needed, use back of form

11. SCREEN: Depth Dia. Type & Opening

From 4.99 to 19.42ft 2" Sch 40 PVC  
.010 slot

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

12. GRAVEL: Depth Size Material

From 3.85 to 19.42ft 2.75 3.85 Silica Sand  
Bentonite

13. WATER ZONES (depth): 3.1 - 19.42' (TOC)

14. STATIC WATER LEVEL: 3.1 ft. above top of casing below

Casing is 2.5 ft. above land surface ELEV: 100.0

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

16. PUMPING WATER LEVEL: 3.40 ft.

after 2 hours at 7 gpm.

17. CHLORINATION: Type N/A Amount -

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

19. PERMANENT PUMP: Date Installed N/A

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

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

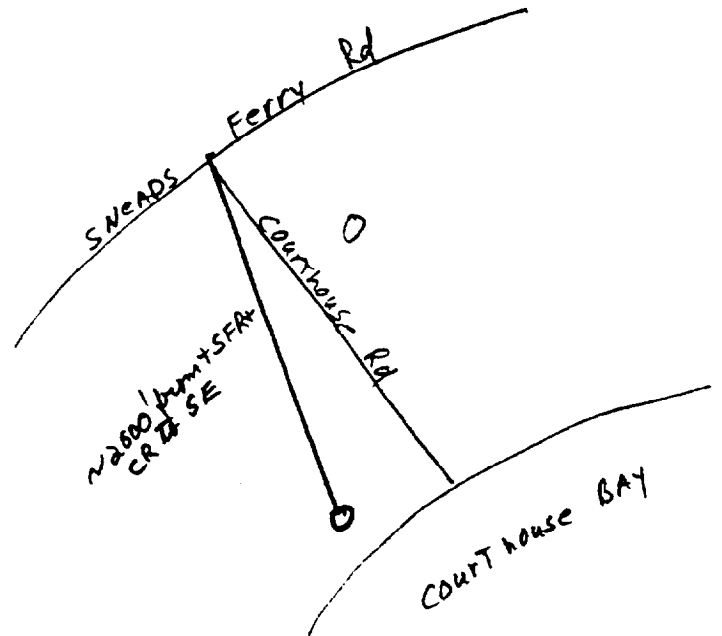
Airline Depth \_\_\_\_\_

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 Walsh 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, LHA 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 LEJUNE Quadrangle No. NEW RIVER FOLET  
(Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL, MARINE CORPS BASE

DRILLING LOG GW73-3

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: 7-6-84

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. type 15.0-16.5 CL

From 0 to 5.19 ft 2" Sch 40 PVC 20.0-21.5 CL

10. GROUT: Depth Material Method From 0 to 2.17 ft Sand-cement (2:1) packed

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

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

12. GRAVEL: Depth Size Material From 4.08 to 19.67 ft 2.17 4.08 Silica Sand 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 \_\_\_\_\_

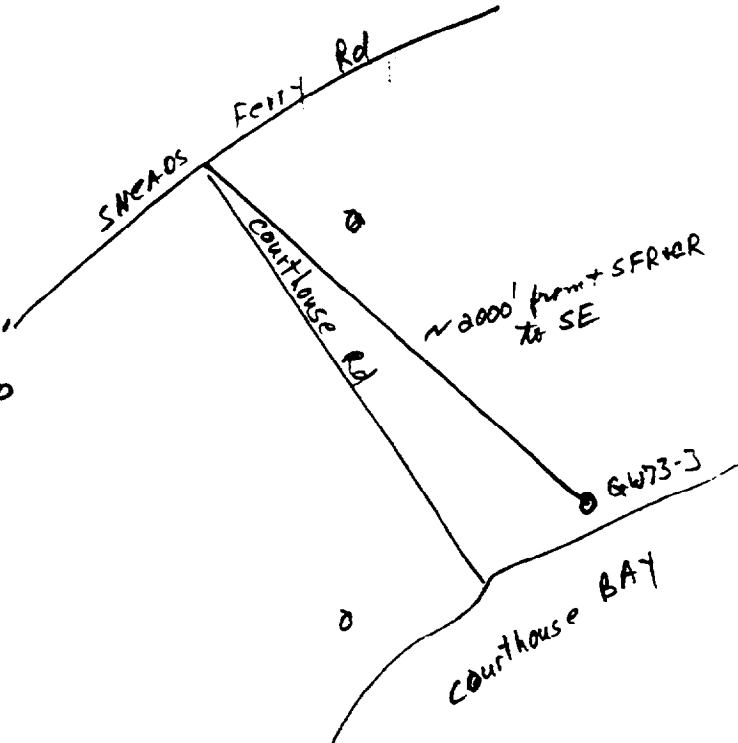
Airline Depth \_\_\_\_\_

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

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.

ROKush M... 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: DANLOW  
COURTHOUSE RD. CAMP LEJUNE Quadrangle No: NEW RIVER FOLIO  
(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 LEJUNE MC

DEPTH FROM	TO	FORMATION DESCRIPTION (USCS Class.)
0-1.0		SM
1.0-3.0		SM-SC
3.0-7.0		SM
7.0-7.5		Peat
7.5-16.5		SM
20-21.5		ML

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

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

From 0 to 8.54 ft 2" Sch 40 PVC

10. GROUT: Depth Material Method

From 0 to 3.54 ft concrete (2:1) poured

11. SCREEN: Depth Dia. Type & Opening

From 5.54 to 20.0 ft 2" Sch 40 PVC  
.010 slot

12. GRAVEL: Depth Size Material

From 4.54 to 20.0 ft Silica Sand  
3.54 4.54 Bentonite

13. WATER ZONES (depth): 3.4 - 20.0' (TC)

14. STATIC WATER LEVEL: 3.4 ft. <sup>above</sup> below top of casing  
Casing is 2.5 ft. above land surface ELEV: 99.22'

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 \_\_\_\_\_

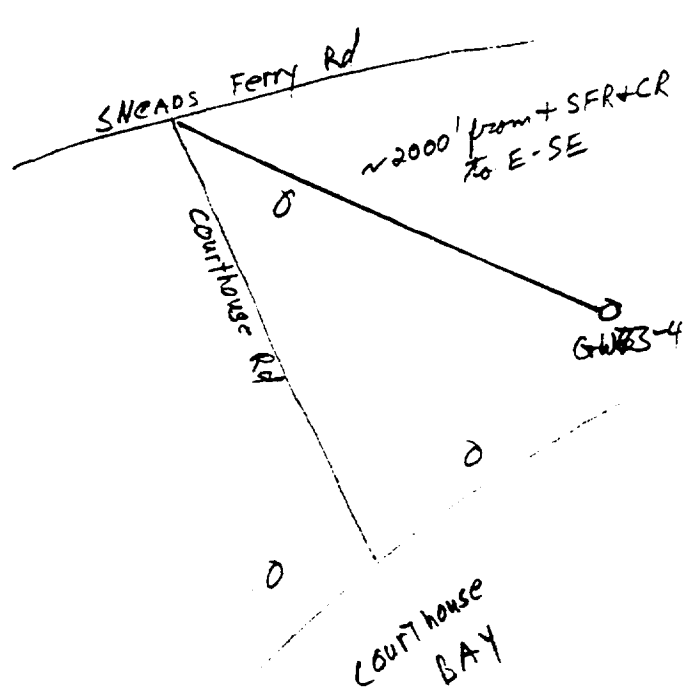
20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENT'S REQUIREMENTS AND RECOMMENDATIONS? no

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.

RJ Kral Mombere 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 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 FAC'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: 7-4-84

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

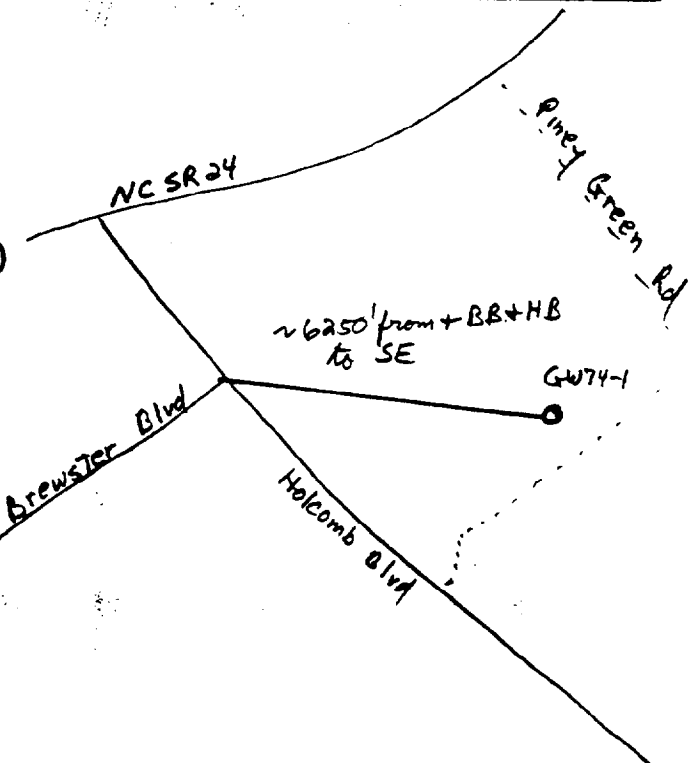
8. FORMATION SAMPLES COLLECTED: YES  NO 23-24.5 SM

9. CASING: Depth Inside Dia. Wall thick. or weight/ft. type  
From 0 to 6.96 ft. 2" Sch 40 PVC

10. GROUT: Depth Material Method  
From 0 to 4.96 ft. Sand-Cement (2:1) poored

11. SCREEN: Depth Dia. Type & Opening  
From 6.96 to 21.42 ft. 2" Sch 40 PVC  
Old slot

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



12. GRAVEL: Depth Size Material  
From 5.0 to 21.42 ft. 40 5.0 Silica Sand  
Bentonite

13. WATER ZONES (depth): 7.0 - 21.42' (70')

14. STATIC WATER LEVEL: 7.0 ft. above top of casing  
below 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.

[Signature] 12-18-84  
SIGNATURE OF CONTRACTOR'S AGENT

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 GSE

DRILLING LOG GW74-2

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: 7-4-84

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO

0-3.0 SM

7. TOTAL DEPTH: 23.96 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. or weight/ft. type

From 0 to 9.50 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 9.50 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' (Top)

14. STATIC WATER LEVEL: 9.1 ft. above/below top of casing

Casing is 25 ft. above land surface ELEV: 100.0'

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

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

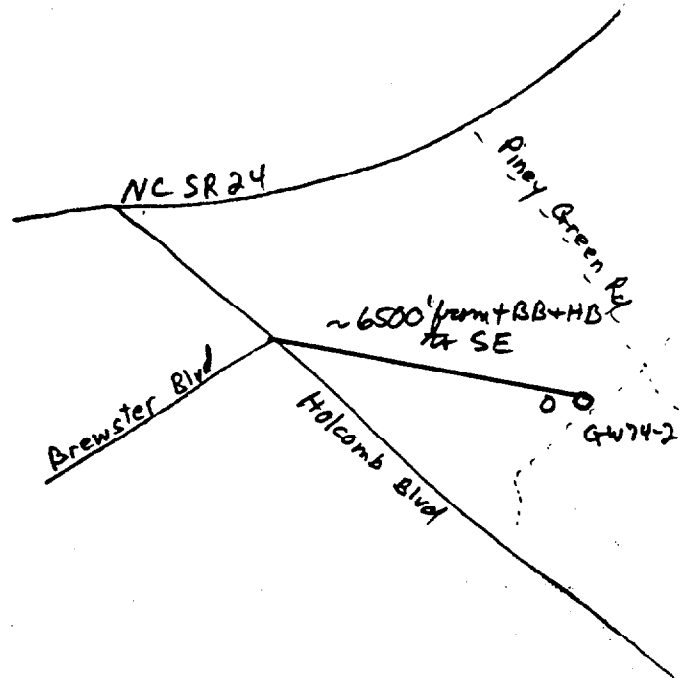
Airline Depth

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE 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. A. King-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  
WHITE ST. CAMP LETWINE 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 AC/S FACILITIES, CAMP LETWINE, 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

0-1.0 SM

7. TOTAL DEPTH: 20.12 RIG TYPE OR METHOD: H.S.A.

1.0-1.5 SM-SC

8. FORMATION SAMPLES COLLECTED: YES  NO

1.5-3.0 SM

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

3-4 SC

From 0 to 5.64ft 2" Sch 40 PVC

4.0-4.5 SM

4.5-10.5 SC

15-16.5 SC-SM

10. GROUT: Depth Material Method

From 0 to 2.42ft Sand cement (2:1) poured

20-26.5 SC-SM

If additional space is needed, use back of form

11. SCREEN: Depth Dia. Type & Opening

From 5.64 to 20.12ft 2" Sch 40 PVC  
.010 slot

LOCATION SKETCH

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

12. GRAVEL: Depth Size Material

From 4.58 to 20.12ft Silica Sand  
2.42 4.58 Bentonite

13. WATER ZONES (depth): 7.05 - 20.12' (TOC)

14. STATIC WATER LEVEL: 7.05 ft. above top of casing

below  
Casing is 1.88 ft. above land surface ELEV: 108.06'

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

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 \_\_\_\_\_

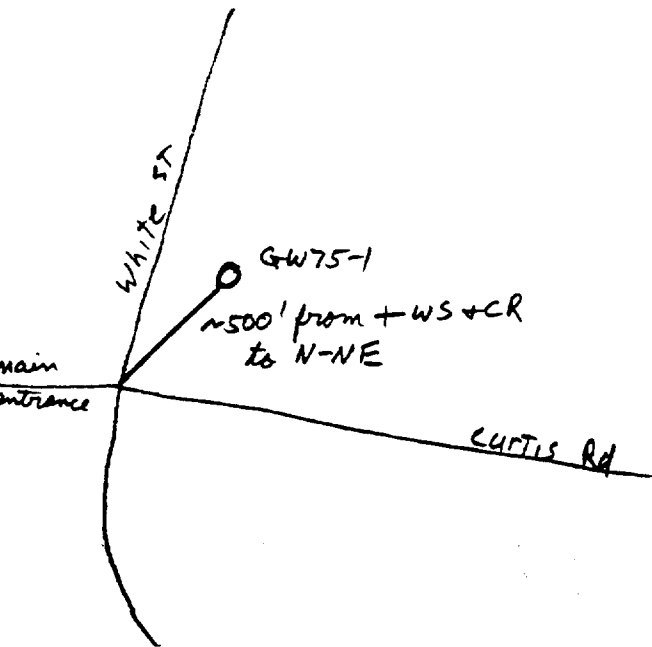
Airline Depth \_\_\_\_\_

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE 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. K. 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: ONSLOW  
CURTIS RD., CAMP LEJUNE Quadrangle No. CAMP LEJUNE  
(Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL, MARINE CAMP BASE

DRILLING LOG GW75-2

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

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: 7-16-84

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO

0-1.5 SM

7. TOTAL DEPTH: 20.37 RIG TYPE OR METHOD: H.S.A.

1.5-4.5 SC-SM

8. FORMATION SAMPLES COLLECTED: YES  NO

4.5-16.5 SM

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

20-21.5 SC-SM

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) pooured

If additional space is needed, use back of form

11. SCREEN: Depth Dia. Type & Opening

From 5.89 to 20.37 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 4.17 to 20.37 ft Silica Sand  
2.79 4.17 Bentonite

13. WATER ZONES (depth): 8.0 - 20.37' (TDC)

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: POMPEY

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 \_\_\_\_\_

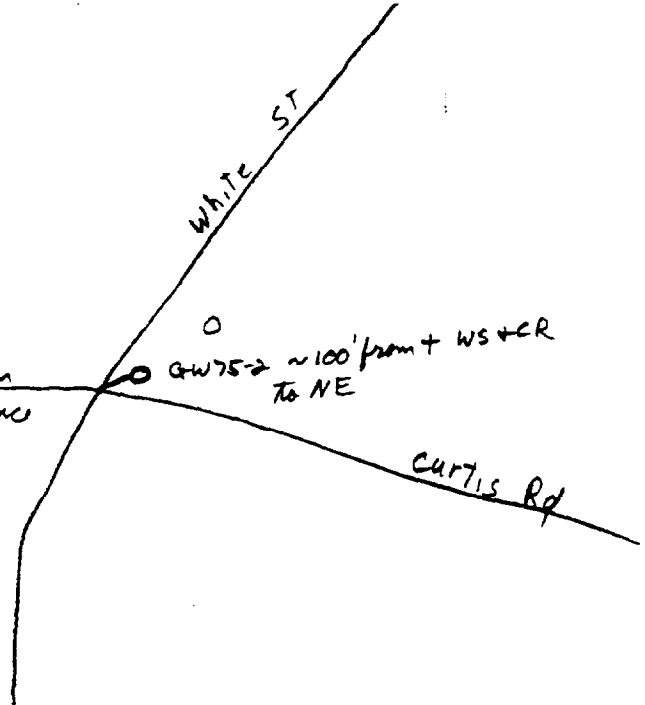
Airline Depth \_\_\_\_\_

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE 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. Knick Mombere 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  
CURTIS RD, CAMP LEJUNE 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 LEJUNE N.C.

4. TOPOGRAPHY: draw, valley, slope, hilltop, flat (circle one) 2-850

DEPTH FROM TO FORMATION DESCRIPTION  
(4SCS Class.)

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

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO

0-3.0 SM

7. TOTAL DEPTH: 19.00 RIG TYPE OR METHOD: H.S.A

3-4.5 SM-SC

8. FORMATION SAMPLES COLLECTED: YES  NO

4.5-21.5 SM

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

From 0 to 4.54 ft 2" Sch 40 PVC

21.5 SM-SC

10. GROUT: Depth Material Method

From 0 to 2.54 ft Sand-Cement (2:1) gravel

\* If additional space is needed, use back of form

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 (76)

14. STATIC WATER LEVEL: 9.16 ft. above top of casing below

Casing is 2.5 ft. above land surface ELEV: 112.04

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

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

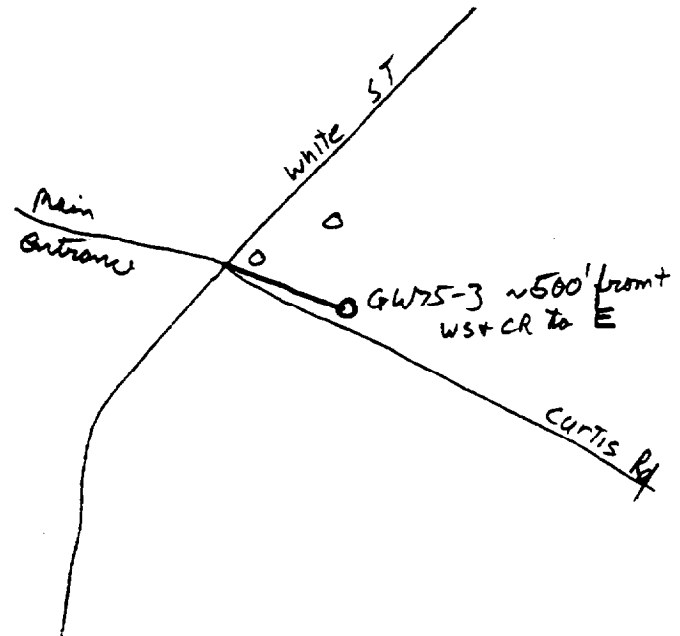
Airline Depth

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE 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. Michael Mombay 12-18-84  
SIGNATURE OF CONTRACTOR OR AGENT DATE



Doc. NO: CLEJ-00693-105-01/8/85

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 LOEBNE 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 AC/S FACILITIES, CAMP LOEBNE H.C.

DEPTH  
FROM TO

FORMATION DESCRIPTION  
(USGS 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 Wall thick. type  
Dia. or weight/ft.

From 0 to 21.0 ft 2" Sch 40 PVC

10. GROUT: Depth Material Method

From 0 to 4.08 ft sand-cement (2:1) pooured

11. SCREEN: Depth Dia. Type & Opening

From 6.0 to 21.0 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 5.5 to 21.0 ft 4.08 5.5 Silica Sand  
Ben-tonite

13. WATER ZONES (depth): 4.74 - 21.0' (TOC)

14. STATIC WATER LEVEL: 4.74 ft. above top of casing  
below

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 \_\_\_\_\_

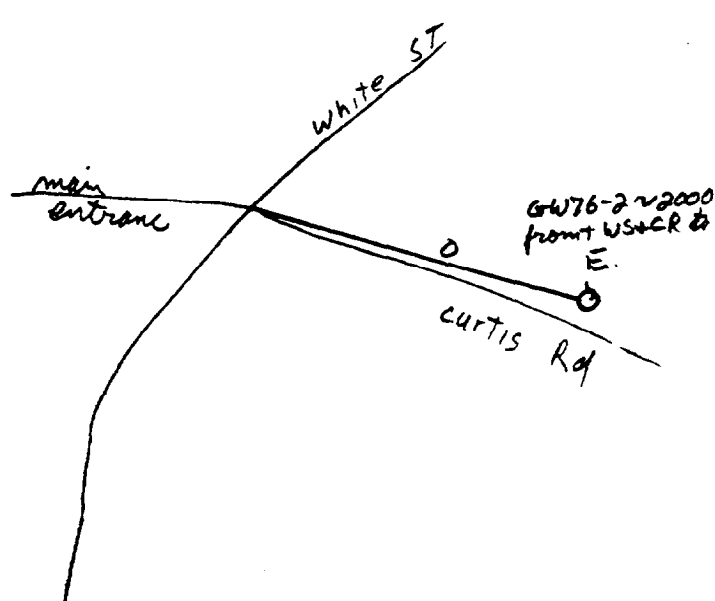
Airline Depth \_\_\_\_\_

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE 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 Kneib 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  
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 ACS FACILITIES, CAMP LEBONE, 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 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  
From 0 to 381 ft 2" Sch 40 PVC

10. GROUT: Depth Material Method  
From 0 to     ft Sand-cement (1:1) peened

If additional space is needed, use back of form

11. SCREEN: Depth Dia. Type & Opening  
From 381 to 1829 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 2.25 to 1829 ft     Silica Sand  
1.95 2.25 Bentonite

13. WATER ZONES (depth): 9.29 - 18.29' (TOD)

14. STATIC WATER LEVEL: 9.29 ft. above/below top of casing  
Casing is 2.5 ft. above land surface ELEV: 108.54'

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    

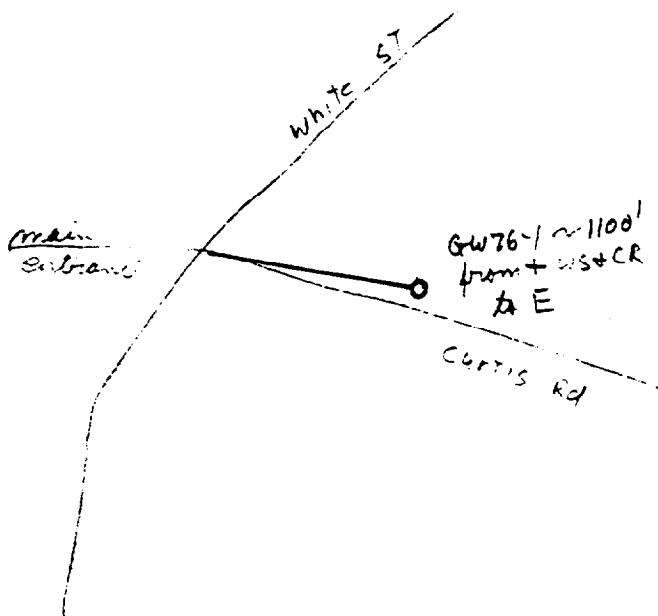
18. WATER QUALITY: GOOD TEMPERATURE (°F) 75

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 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. Kinley Thompson 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: JACKSONVILLE County: ONSCOW  
G STREET, CAMP LEVEE Quadrangle no. JACKSONVILLE SOUTH  
(Road, Community or Subdivision and Lot No.)

2. OWNER: COMPANING GENERAL MANNING CORP BASK

DRILLING LOG GW36-4

3. ADDRESS: OFFICE OF A&S FACILITIES, CAMP LEVEE, 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	SM
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. type or weight/ft.

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

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 4.21 to 19.67 ft 3/4 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

Casing is 2.5 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 N/A Amount

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

19. PERMANENT PUMP: Date Installed N/A

Type Capacity (gpm) HP

Make Intake Depth

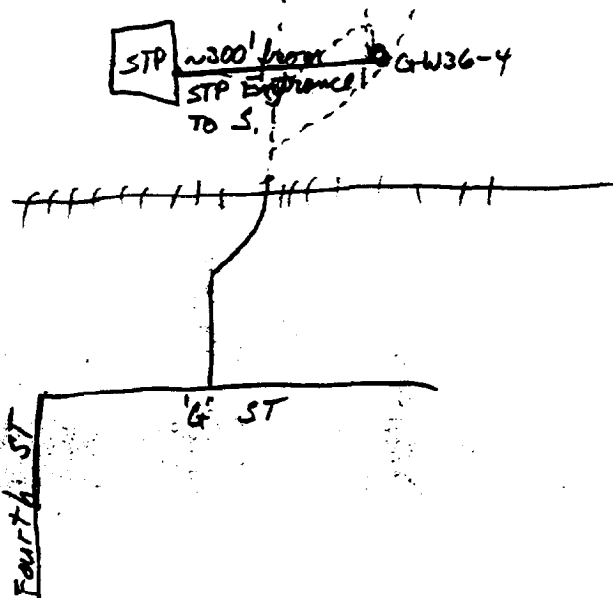
Airline Depth

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.

Robert M. ... 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 CONSULTING, LTD REG. NO. 191 WELL CONSTRUCTION PERMIT NO. \_\_\_\_\_

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

Nearest Town: JACKSONVILLE County: ONSLOW  
US 17 CAMP LEBVINE 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 AID'S FACILITIES, CAMP LEBVINE N.C.

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

DEPTH FROM 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

0-100 SM

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

100-10.5 SM-SC

8. FORMATION SAMPLES COLLECTED: YES  NO

13.5-45 SM

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

20.-21.5 SM

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

If additional space is needed, use back of form

11. SCREEN: Depth Dia. Type & Opening

From 6.7 to 20.17 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 4.7 to 20.17 ft 3.7 4.7 Silver Sand  
Basaltite

13. WATER ZONES (depth): 7.0 - 20.17' (D.C.)

14. STATIC WATER LEVEL: 7.0 ft. above/below 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 \_\_\_\_\_

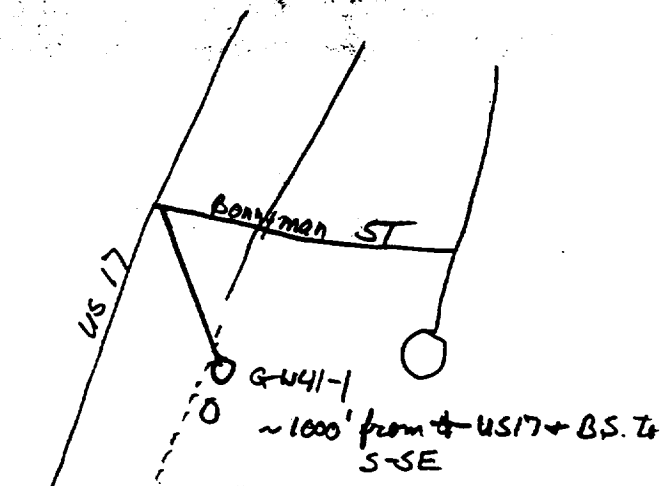
Airline Depth \_\_\_\_\_

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

John M. ...  
SIGNATURE OF CONTRACTOR OR AGENT DATE 8-2-84



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: JACKSONVILLE County: ONSCDW  
US 17 CAMPLETEOWN Quadrangle No. JACKSONVILLE SOUTH  
(Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL, MARINE CORP BASE  
3. ADDRESS: OFFICE OF AC/S FACILITIES, CAMP LEVINE, P.C.

DRILLING LOG G441-1R

4. TOPOGRAPHY: draw, valley, slope, hilltop (circle one)	DEPTH		FORMATION DESCRIPTION (USCS Classification)
	FROM	TO	
5. USE OF WELL: <u>H<sub>2</sub>O Sampling</u> DATE: <u>7-10-84</u>			
6. DOES THIS WELL REPLACE AN EXISTING WELL? <u>NO</u>	<u>0-10.0</u>		<u>SM</u>
7. TOTAL DEPTH: <u>18.04</u> RIG TYPE OR METHOD: <u>U.S.A.</u>	<u>10-10.5</u>		<u>SM-SC</u>
8. FORMATION SAMPLES COLLECTED: YES <input checked="" type="checkbox"/> NO	<u>13.5-15.</u>		<u>SM</u>
9. CASING: Depth Inside Wall thick. type Dia. or weight/ft.	<u>20-21.5</u>		<u>SM</u>
From <u>0</u> to <u>35.6</u> ft <u>2"</u> <u>Sch 40</u> <u>PVC</u>			

10. GROUT: Depth	Material	Method
From <u>0</u> to <u>1.42</u> ft	<u>sand-cement (2:1)</u>	<u>poured</u>

11. SCREEN: Depth	Dia.	Type & Opening
From <u>3.56</u> to <u>18.04</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>2.92</u> to <u>18.04</u> ft		<u>Silica Sand</u> <u>1.43 3.92</u> <u> Bentonite</u>

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

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

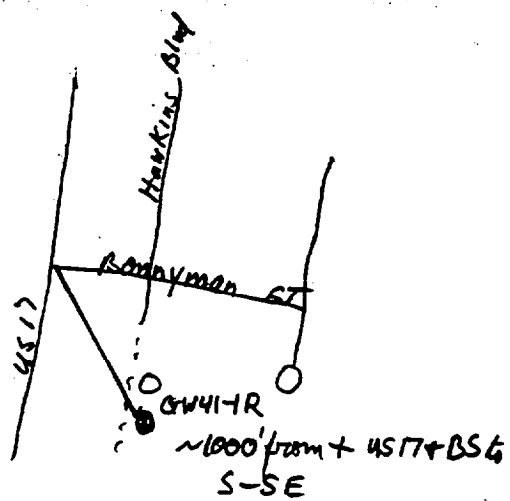
20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENT'S REQUIREMENTS AND RECOMMENDATIONS? Yes

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.

[Signature] 12-18-84  
DATE

Submit original to Division of Environmental Management and copy to well owner.









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 JTS CONSULTANTS LTD REG. NO. 191 WELL CONSTRUCTION PERMIT NO. \_\_\_\_\_

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

Nearest Town: JACKSONVILLE County: DANFLOU  
US 17, CAMP LEJUNE 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 ACP FACILITIES, CAMP LEJUNE, N.C.

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

0-7.25 SM

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

7.25-7.5 OL

8. FORMATION SAMPLES COLLECTED: YES  NO

7.5-10.5 SM

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

15.-16.5 SC-SM

From 0 to 5.19 ft 2" Sch 40 PVC

20.-21.5 SC-SM

10. GROUT: Depth Material Method

From 0 to 26.7 ft Sand-Cement (2:1) pooured

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  
0.10 slot

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

12. GRAVEL: Depth Size Material

From 3.75 to 19.67 ft 3.75 Silica Sand  
2.67 Rentonite

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

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

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 (°): 71

19. PERMANENT PUMP: Date Installed NA

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

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

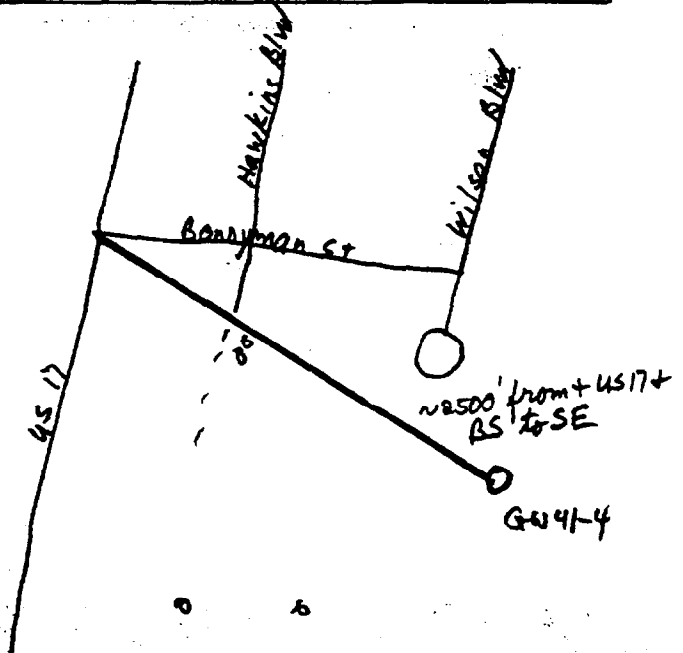
Airline Depth \_\_\_\_\_

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.

RO Kinsel member 12-8-84  
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: OPSIOW  
CAMPBELL ST. CAMP COJEVNE Quadrangle No. JACKSONVILLE SOUTH  
 (Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL, MARINE CORP BASE

DRILLING LOG GW45-1

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

DEPTH		FORMATION DESCRIPTION (USCS Classification)
FROM	TO	

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

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. 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

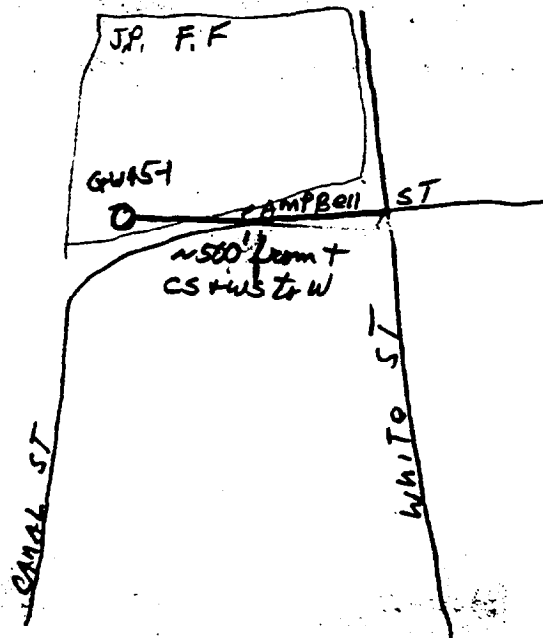
11. SCREEN: Depth Dia. Type & Opening

From 50 to 19.47 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 2.5 to 19.47 ft. 2.5 3/16 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 hour 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 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. King 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  
CAMPBELL ST., CAMP LESVING 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 LESVING NC

4. TOPOGRAPHY: draw, valley, slope, hilltop, (circle one) FLAT <sup>2PS40</sup> DEPTH FROM TO FORMATION DESCRIPTION (USCS Classification)

5. USE OF WELL: H<sub>2</sub>O Sampling DATE: 8-1-81

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

7. TOTAL DEPTH: 19.47 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 From 0 to 4.0 ft 2" Sch 40 PUC 16.-16.5 SM

20-21.5 SM

10. GROUT: Depth Material Method From 0 to 2.00 ft Sand-cement (3:1) poURED

11. SCREEN: Depth Dia. Type & Opening From 4.0 to 19.47 ft 2" Sch 40 PUC .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 3.0 to 19.47 ft 3.00 3.01 Silica Sand Bentonite

13. WATER ZONES (depth): 3.4 - 19.47 (TOC)

14. STATIC WATER LEVEL: 3.4 ft. above top of casing below 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 \_\_\_\_\_

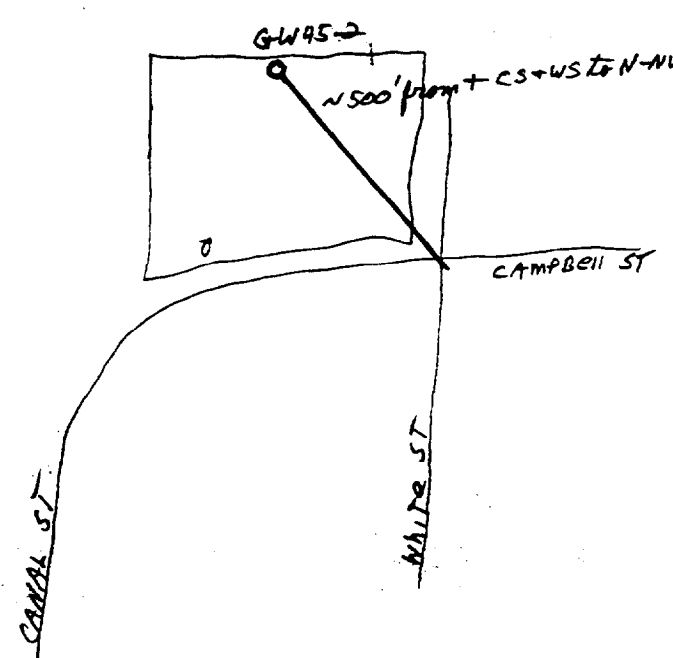
Airline Depth \_\_\_\_\_

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

D. M. M. M. M. M. 12-18-81  
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  
CAMPBELL RD. CAMP LEJEUNE Quadrangle No. JACKSONVILLE SOUTH  
(Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL MARINE CORP BASE

DRILLING LOG G445-3

3. ADDRESS: OFFICE OF AC/S FACILITIES, CAMP LEJEUNE NC DEPTH FROM \_\_\_\_\_ TO \_\_\_\_\_

4. TOPOGRAPHY: draw, valley, slope, hilltop, flat (circle one) 2850 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 0-3.25 CL

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

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

9. CASING: Depth Inside Dia. Wall thick. or weight/ft. type 7.5-9.5 CH

From 0 to 4.5 ft 2" Sch 40 PVC 9.5-21.5 SM

10. GROUT: Depth Material Method

From 0 to 2.42 ft Sand-Cement (2:1) pressed

11. SCREEN: Depth Dia. Type & Opening

From 4.5 to 19.04 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 3.5 to 19.04 ft 2.42 3.5 Silica Sand Bentonite

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

14. STATIC WATER LEVEL: 5.6 ft. above top of casing below

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 hours 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 \_\_\_\_\_

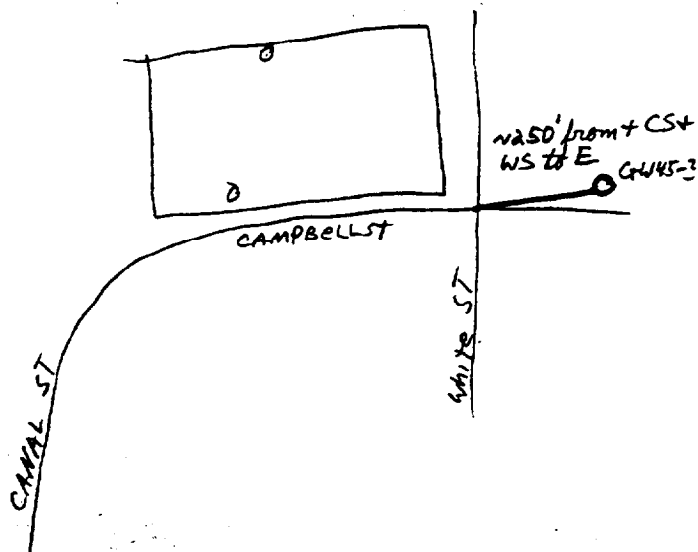
Airline Depth \_\_\_\_\_

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE 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.

[Signature] 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  
PERIMETER RD, CAMP LOUVRE Quadrangle No. JACKSONVILLE SOUTH  
(Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL, MARINE CORPS BASE

DRILLING LOG G-454-1

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

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

DEPTH  
FROM \_\_\_\_\_ TO \_\_\_\_\_

FORMATION DESCRIPTION  
(USCS Classification)

5. USE OF WELL: Had 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. Cement (2:1) packed

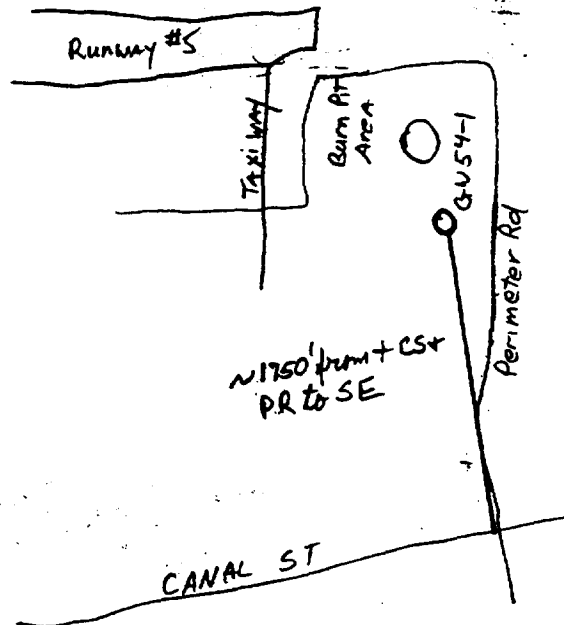
11. SCREEN: Depth Dia. Type & Opening

From 4.91 to 19.37 ft. 2" Sch 40 PVC  
DIO 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 3.91 to 19.37 ft. 2.91 3.91 Silica Sand  
Bentonite

13. WATER ZONES (depth): 9.0 - 19.37' (TO)

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

Casing is 25 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 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. M. ... 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: SNEADS FERRY County: ONSCOW  
RANGE NO. CAMP LOUVINE 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 AFS FACILITIES, CAMP LOUVINE 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

0-3.0

SM

7. TOTAL DEPTH: 20.36 RIG TYPE OR METHOD: H.S.A.

3.0-5.5

SM-SC

8. FORMATION SAMPLES COLLECTED: YES  NO

5.5-7.5

CL

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

7.5-21.5

CL

From 0 to 5.84 ft. 2" Sch 40 PVC

10. GROUT: Depth Material Method

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

If additional space is needed, use back of form

11. SCREEN: Depth Dia. Type & Opening

From 5.84 to 20.36 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 4.29 to 20.36 ft. Silica Sand  
2.63 4.29  Bentonite

13. WATER ZONES (depth): 2.8 - 20.36' (TOC)

14. STATIC WATER LEVEL: 2.8 ft. above/below top of casing

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

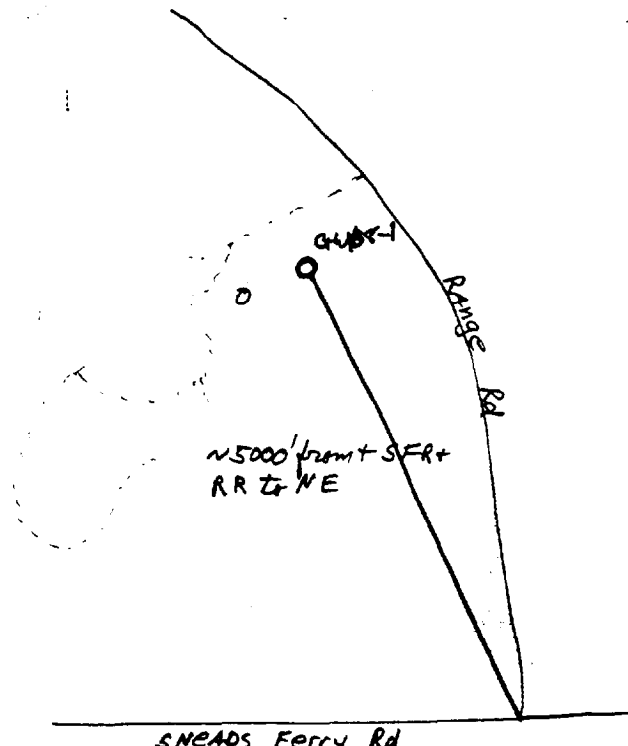
Airline Depth

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] 12-18-84  
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: SNEADS FERRY County: ONSDOW  
RANGE RD, CAMP LEVENE Quadrangle No. SNEADS FERRY  
(Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDER GENERAL, MARINE CORP BASE

DRILLING LOG GW68-1R

3. ADDRESS: OFFICE OF AC'S FACILITIES, CAMP LEVENE, N.C.

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

DEPTH		FORMATION DESCRIPTION (USCS Class.)
FROM	TO	

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: 20.42 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 5.94 ft 2" Sch 40 PVC

10. GROUT: Depth Material Method

From 0 to 2.83 ft concrete (2:1) gravel

11. SCREEN: Depth Dia. Type & Opening

From 5.94 to 20.42 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 4.63 to 20.42 ft 20-40 Silica Sand  
20-40 4.63 bentonite

13. WATER ZONES (depth): 8.67 - 20.42' (100)

14. STATIC WATER LEVEL: 8.67 ft. above top of casing below

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

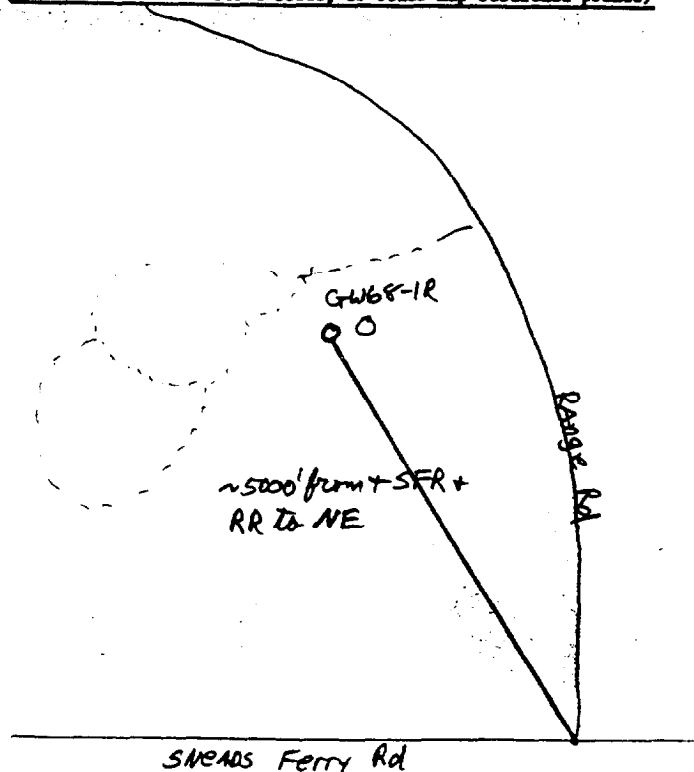
Airline Depth

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENT'S REQUIREMENTS AND RECOMMENDATIONS? 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. Kinsinger 12-18-84  
SIGNATURE OF CONTRACTOR OF WELL 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 LLC 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 LETWINE 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 AFS FACILITIES, CAMP LETWINE 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

0-35 SM

7. TOTAL DEPTH: 21.07 RIG TYPE OR METHOD: H.S.A.

35-10.3 SM-SC

8. FORMATION SAMPLES COLLECTED: YES  NO

15-16.5 SM-SC

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

20-21.5 SM

From 0 to 6.6 ft 2" Sch 40 PVC

10. GROUT: Depth Material Method  
From 0 to 4.6 ft sand-cement (6:1) pooured

If additional space is needed, use back of form

11. SCREEN: Depth Dia. Type & Opening  
From 6.6 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 6.6 to 21.07 ft 46 46 Silica Sand  
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: 69.77'

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

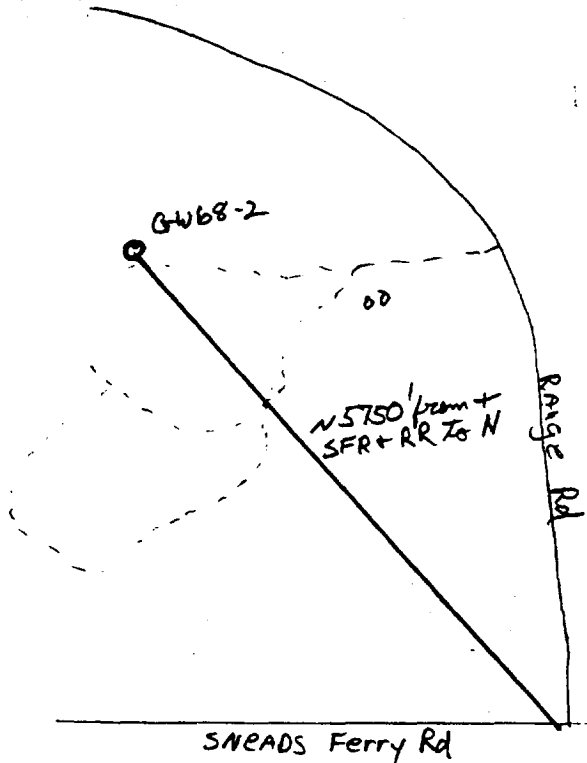
19. PERMANENT PUMP: Date Installed NA  
Type \_\_\_\_\_ Capacity \_\_\_\_\_ (gpm) HP \_\_\_\_\_  
Make \_\_\_\_\_ Intake Depth \_\_\_\_\_  
Airline Depth \_\_\_\_\_

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.

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





Doc. No: CLET-00693 - 1.05-01108/85

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 LEBRUNE Quadrangle No: SNEADS FERRY  
(Road, Community or Subdivision and Lot No.)

2. OWNER: COMM-NONK GENERAL, MARINE CORP BASE

DRILLING LOG GV68-2R

3. ADDRESS: OFFICE OF A&S FACILITIES, CAMP LEBRUNE NC.

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

DEPTH FROM TO FORMATION DESCRIPTION  
2094 SM  
(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: 2094 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 646 ft. 2" Sch 40 PVC

10. GROUT: Depth Material Method

From 0 to 383 ft. sand-cement (2:1) grout

11. SCREEN: Depth Dia. Type & Opening

From 646 to 2094 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 544 to 2094 ft. 3/8 5/4 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: BAILED

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 \_\_\_\_\_

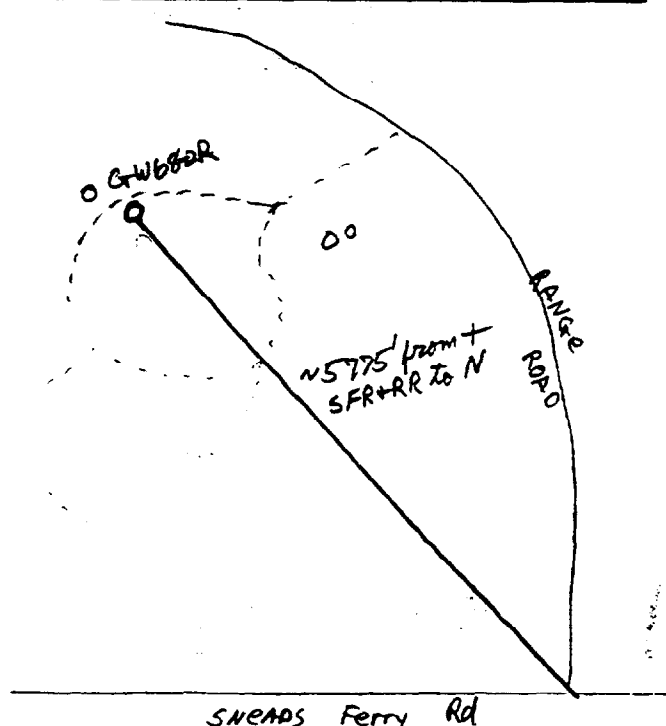
Airline Depth \_\_\_\_\_

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.

R. J. M. Moberg 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: SNEADS FERRY County: ONSCOW  
RANGE ROAD, CAMP LEJUNE Quadrangle No. SNEADS FERRY  
(Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL, MARINE CAMP BASE

DRILLING LOG G-468-3

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

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

0-4.5 SM

7. TOTAL DEPTH: 19.77 RIG TYPE OR METHOD: H.S.A.

4.5-6.0 SC-SM

8. FORMATION SAMPLES COLLECTED: YES  NO

6.0-6.5 SM

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

0.0-21.5 CL

From 0 to 5.29 ft. 2" Sch 40 PVC

10. GROUT: Depth Material Method

From 0 to 2.77 ft. Sand-Cement (2:1) packed

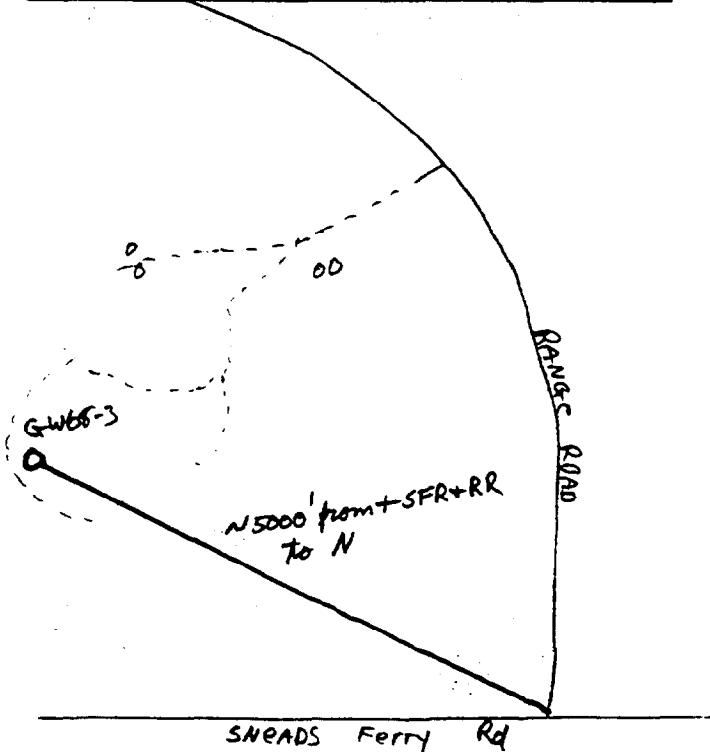
\* If additional space is needed, use back of form

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 4.77 ft. 2.79 4.10 Silica Sand  
 Bentonite

13. WATER ZONES (depth): 19.15 - 19.77 (TDC)

14. STATIC WATER LEVEL: 19.15 ft. above top of casing  
below

Casing is 2.5 ft. above land surface ELEV: 7638

15. YIELD (gpm): 0.5 METHOD OF TESTING: BALLOD

16. PUMPING WATER LEVEL: 18.25 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. Malmon 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 CONTRACTORS CONSULTANTS, Ltd. REG. NO. 191 WELL CONSTRUCTION PERMIT NO.

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

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

2. OWNER: COMMANDING GENERAL, MARINE CORPS BASE

DRILLING LOG GW2-1

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

4. TOPOGRAPHY: draw, valley, slope, hilltop, flat (circle one) <sup>28540</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
21.5	23.0	SP
23.0	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 Wall thick. type Dia. or weight/ft.

From 0 to 8.0 ft 2" Sch 40 PVC

From 8.0 to 22.47 ft 2" Sch 40 PVC

10. GROUT: Depth Material Method

From 0 to 6.0 ft sand-cement (2:1) grout

11. SCREEN: Depth Dia. Type & Opening

From 8.0 to 22.47 ft 2" Sch 40 PVC

1.0 slot

12. GRAVEL: Depth Size Material

From 7.0 to 22.47 ft 20 Silica Sand

6.0 7.0 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: -

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

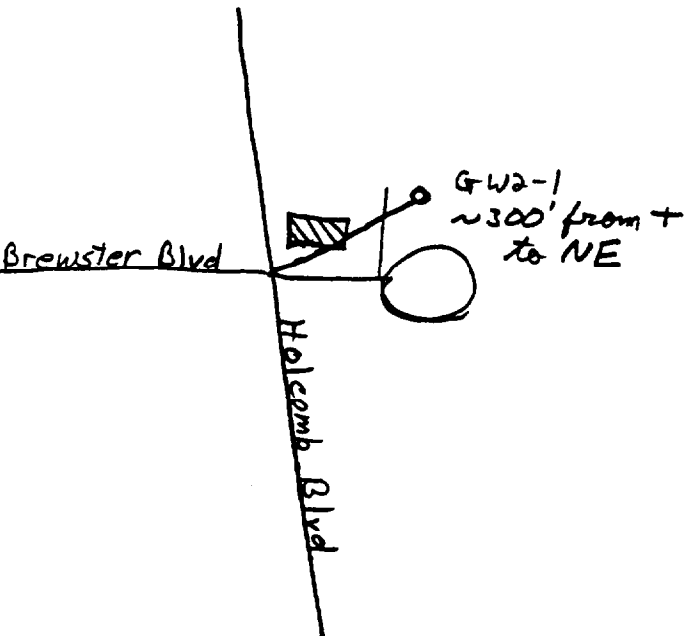
20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENTS REQUIREMENTS AND RECOMMENDATIONS? YH

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. Smith 12-17-84  
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: 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  
(USGS 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

0-235' SM

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. type

From 0 to 7.71 ft. 2" Sch 40 PVC

10. GROUT: Depth Material Method

From 0 to 5.71 ft. sand-cement (6:1) pourad

\*If additional space is needed, use back of form

11. SCREEN: Depth Dia. Type & Opening

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

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' (loc)

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

Casing is 2.3 ft. above land surface ELEV: 103.6'

15. YIELD (gpm): 8.0 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

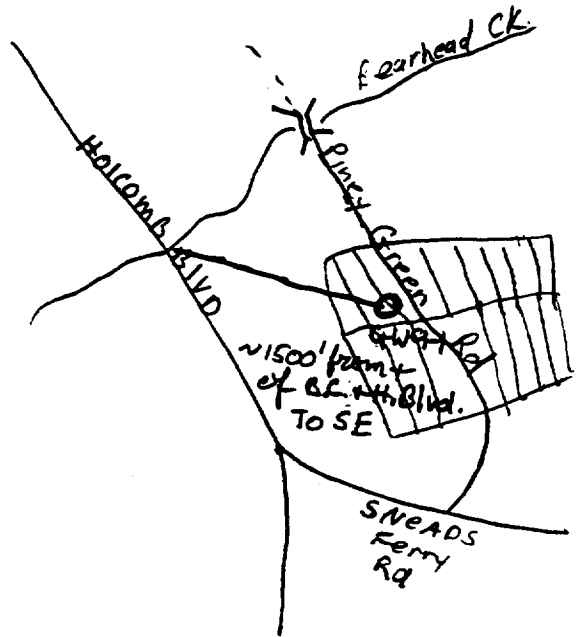
Airline Depth

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE 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. J. King-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 ONE

DRILLING LOG GW9-2

3. ADDRESS: OFFICE OF AC/S 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: 7-5-84

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. or weight/ft. type

From 0 to 4 ft 2" Sch 40 PVC

10. GROUT: Depth Material Method

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

11. SCREEN: Depth Dia. Type & Opening

From 4 to 18.46 ft 2" Sch 40 PVC  
D10 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' (FOC)

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 \_\_\_\_\_

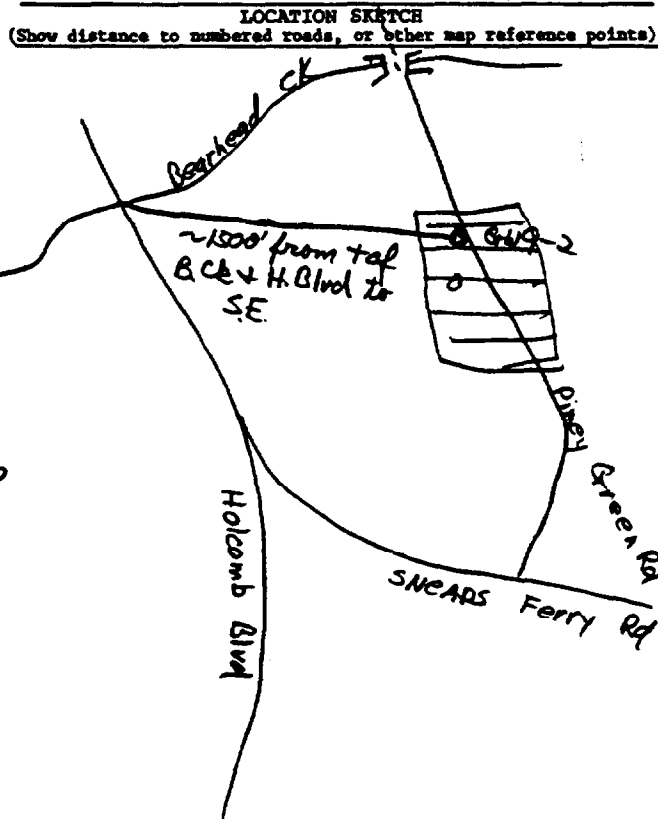
Airline Depth \_\_\_\_\_

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE 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. Kinsley 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  
HOLCOMB BLVD, CAMP LEJEUNE Quadrangle No. CAMP LEJEUNE  
(Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL, MARINE CORPS BASE  
3. ADDRESS: OFFICE OF ACJ FACILITIES, CAMP LEJEUNE

DRILLING LOG GW21-1

4. TOPOGRAPHY: draw, valley, slope, hilltop, (flat) (circle one) 2854P  
5. USE OF WELL: H<sub>2</sub>O Sampling DATE: 7-4-84

DEPTH FROM	TO	FORMATION DESCRIPTION (USCS Classification)
0-7.5		GM
7.5-15.3		ML
15.3-23.35		CL

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO

7. TOTAL DEPTH: 23.35 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>7.57</u> ft	<u>2"</u>	<u>Sch 40</u>	<u>PVC</u>
			<u>15-250</u>
			<u>SM</u>

10. GROUT: Depth Material Method

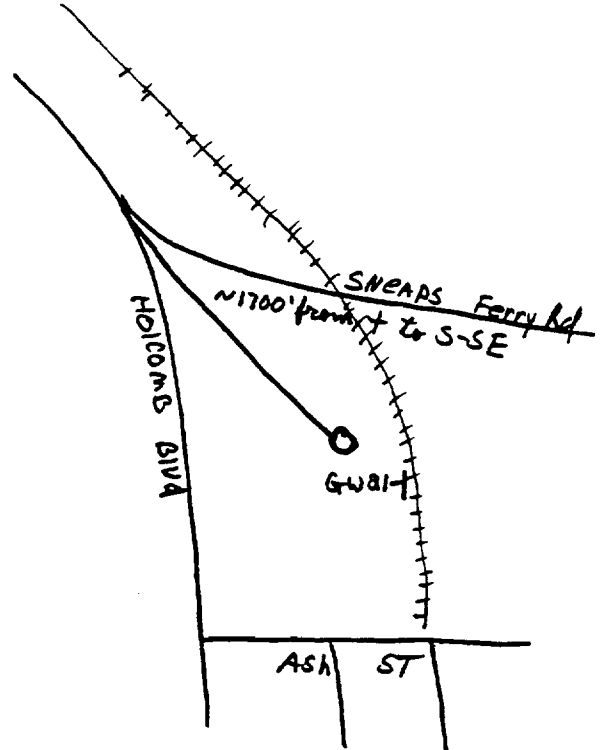
From 0 to 5.5 ft sand-cement (4:1) pouring

\* 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  
.010 slot

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



12. GRAVEL: Depth Size Material

From 7.35 to 23.35 ft 5.5 7.35 Silica Sand  
Antonite

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 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 DEPARTMENTS REQUIREMENTS AND RECOMMENDATIONS? Y

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 - Thompson 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: DUSLOW  
ASH ST. CAMP LEJEUNE Quadrangle # CAMP LEJEUNE  
(Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL, MARINE CORP BASE

DRILLING LOG GW22-1

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

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

DEPTH FROM	TO	FORMATION DESCRIPTION (USCS Classification)
0-1.75		SM
1.75-3.0		CL
3-4		CL
4-5.25		GM
5.25-21.5		SM

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: 20.38 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 5.9 ft 2" Sch 40 PUC

10. GROUT: Depth Material Method

From 0 to 2.42 ft sand-cement (2:1) poured

11. SCREEN: Depth Dia. Type & Opening

From 5.9 to 20.38 ft 2" Sch 40 PUC  
.010 slot

12. GRAVEL: Depth Size Material

From 4.58 to 20.38 ft  
2.42 4.58 Silica Sand  
bestonite

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

14. STATIC WATER LEVEL: 10.5 ft. <sup>above</sup>/<sub>below</sub> 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 \_\_\_\_\_

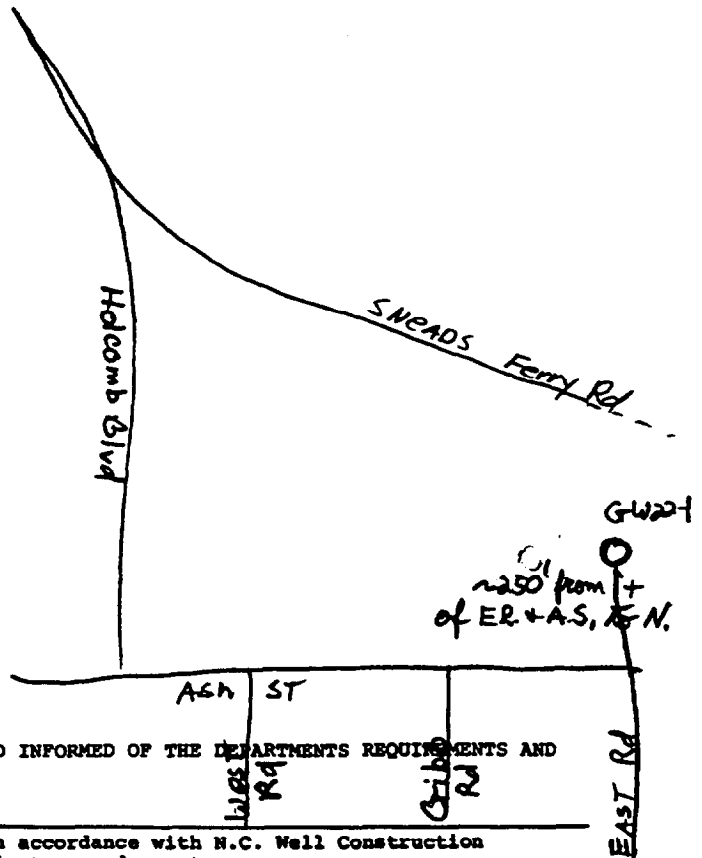
20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENTS REQUIREMENTS AND RECOMMENDATIONS? Yes

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. J. Hensley - Humberger 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  
ASH ST., CAMP LEJEUNE Quadrangle No. CAMP LEJEUNE  
(Road, Community or Subdivision and Lot No.)

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

3. ADDRESS: OFFICE OF A/S FACILITIES, CAMP LEJEUNE, N.C.  
4. TOPOGRAPHY: draw, valley, slope, hilltop (flat/circle one) flat 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 ft 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 4.89 ft Sand-Cement (2:1) poured

11. SCREEN: Depth Dia. Type & Opening From 6.54 to 21.00 ft 2" Sch 40 PVC .010 slot  
\*If additional space is needed, use back of form

12. GRAVEL: Depth Size Material From 5.0 to 21.0 ft Silica Sand  
40 50 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

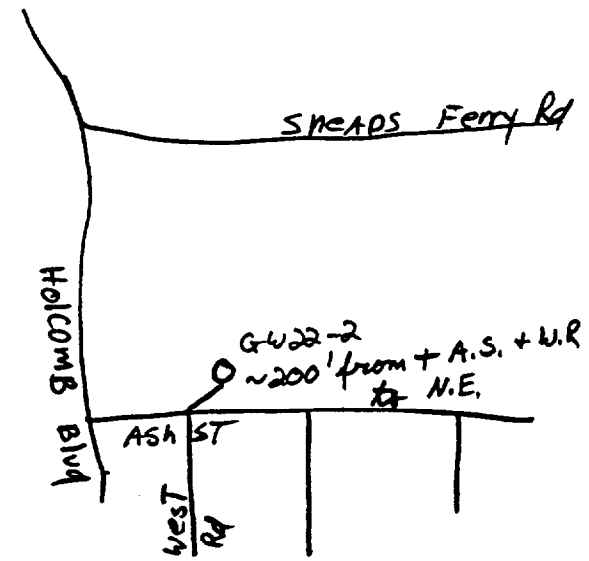
19. PERMANENT PUMP: Date Installed NA  
Type \_\_\_\_\_ Capacity \_\_\_\_\_ (gpm) HP \_\_\_\_\_  
Make \_\_\_\_\_ Intake Depth \_\_\_\_\_  
Airline Depth \_\_\_\_\_

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE 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 Knicker-Knicker 12-17-84  
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: MIDWAY PARK County: ONSLOW  
LOUIS RD. CAMP LEBLANC Quadrangle no. 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		FORMATION DESCRIPTION (USCS Classification)
FROM	TO	
0-1.75		SM
1.75-3.0		ML
3.0-4.5		SM
4.5-26.5		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: 20.27 RIG TYPE OR METHOD: H-S-A.

8. FORMATION SAMPLES COLLECTED: YES  NO

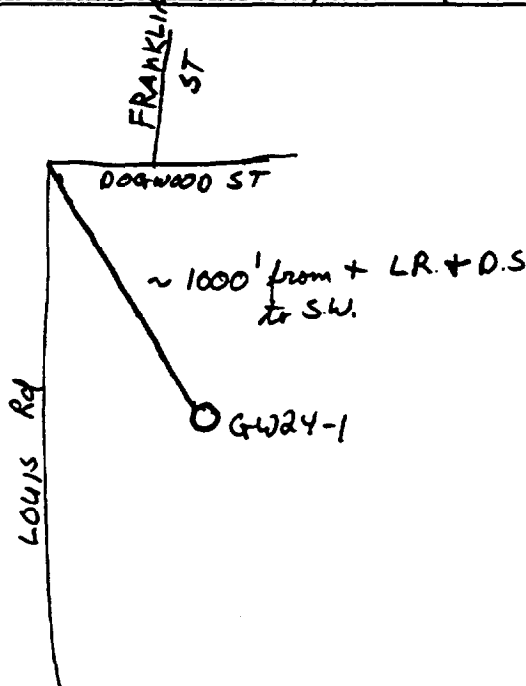
9. CASING: Depth Inside Dia. Wall thick. type  
From 0 to 5.85 ft 2" Sch 40 PVC

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 (TOC)

14. STATIC WATER LEVEL: 9.7 ft. above top of casing  
below 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. Kusch-Homburg 12-17-84  
SIGNATURE OF CONTRACTOR OR AGENT DATE

DOC NO : CLEJ - 00693 - 1.05 1/8/85

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

2. OWNER: COMMANDING GENERAL, MARINE CORP BASE

DRILLING LOG GL24-2

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

4. TOPOGRAPHY: draw, valley, slope, hilltop, flat (circle one) 2540 FORMATION DESCRIPTION (USGS Classification)

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

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO 0-215 SM

7. TOTAL DEPTH: 19.42 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 4.99 ft. 2" Sch 40 PVC

10. GROUT: Depth Material Method

From 0 to 1.72 ft. Sand-cement (1:1) pozzol

\*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  
.010 slot

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

12. GRAVEL: Depth Size Material

From 2.0 to 19.42 ft. 1/2 267 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: 76.57'

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

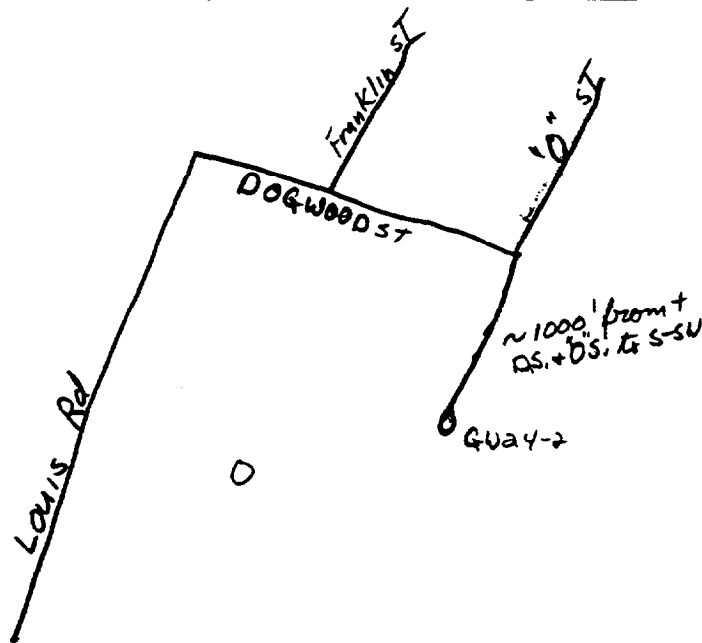
Airline Depth

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

DOGWOOD ST, CAMP LEJEUNE Quadrangle No. CAMP LEJEUNE  
(Road, Community of Subdivision and Lot No.)

2. OWNER: COMMANDER'S GENERAL, MARINE CORP BASE

DRILLING LOG GW24-3

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)

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

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO

0-3.5 SM

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

3.5-4.5 SM-SC

8. FORMATION SAMPLES COLLECTED: YES  NO

4.5-16.5 SM

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

2.0-2.5 GM

From 0 to 5.3 ft 2" Sch 40 PVC

10. GROUT: Depth Material Method

From 0 to 3.25 ft Sand (cement:1) poored

\*If additional space is needed, use back of form

11. SCREEN: Depth Dia. Type & Opening

From 5.3 to 19.8 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 4.3 to 19.8 ft 3.25 4.3 Silica Sand  
benonite

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) EP \_\_\_\_\_

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

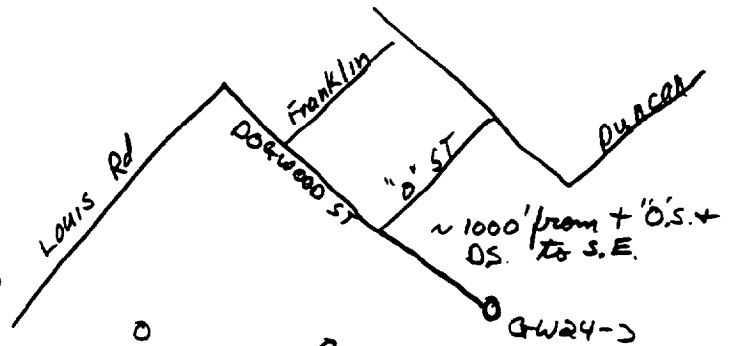
Airline Depth \_\_\_\_\_

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]  
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  
DUNCAN ST., CAMP LEJEUNE Quadrangle No. CAMP LEJEUNE  
(Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL, MARINE CORP BSG

DRILLING LOG GW24-4

3. ADDRESS: OFFICE OF A&S FACILITIES, CAMP LEJEUNE N.C. 28510

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

DEPTH		FORMATION DESCRIPTION (USCS Classification)
FROM	TO	

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: 2137 RIG TYPE OR METHOD: H.S.A.

8. FORMATION SAMPLES COLLECTED: YES  NO

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

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

From	Depth	Dia.	Type & Opening
<u>6.9</u>	<u>to 2137 ft</u>	<u>2"</u>	<u>Sch 40 PVC</u> <u>.010 slot</u>

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

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

14. STATIC WATER LEVEL: 8.5 ft. <sup>above</sup>/<sub>below</sub> top of casing  
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 3/4 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 \_\_\_\_\_

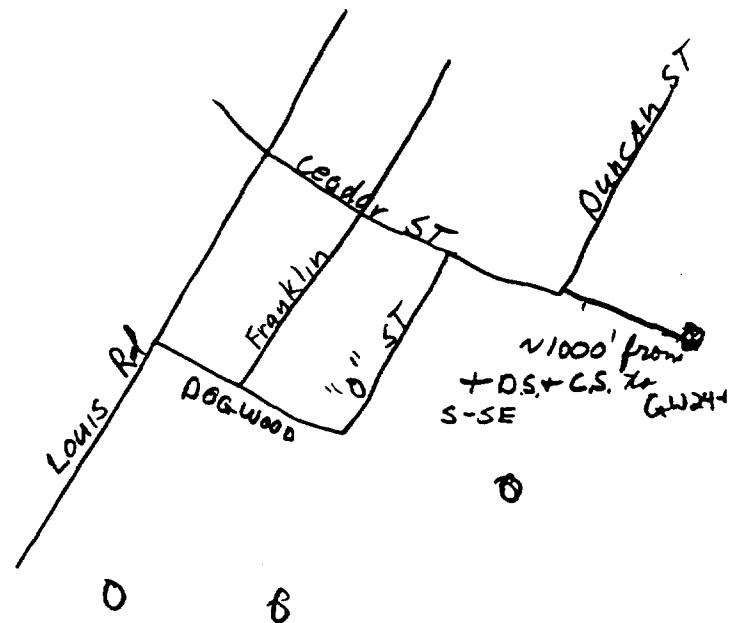
20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENTS REQUIREMENTS AND RECOMMENDATIONS? NA

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.

R.J. Winkler-Kromberg 12/19/84  
SIGNATURE OF CONTRACTOR OR AGENT DATE

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



DOC NO: CLEJ-00693-1.05-11/8/85

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
0 STREET, CAMP LEJEUNE Quadrangle No. CAMP LEJEUNE
(Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL, MARINE CORP BASE

DRILLING LOG GW24-5

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

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

DEPTH FROM TO FORMATION DESCRIPTION (USGS Classification)

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

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO

0-5 Toppel

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

5-75 SM

8. FORMATION SAMPLES COLLECTED: YES NO

75-90 SM-SC

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

9.0-10.5 SM

From 0 to 7.9 ft 2" Sch 40 PVC

15.0-16.5 SM-SC

From 20.0-24.5

SM

10. GROUT: Depth Material Method

From 0 to 5.9 ft sand cement (2:1) poured

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

.010 slot

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

12. GRAVEL: Depth Size Material

From 6.5 to 22.37 ft Silica Sand

4.5 6.5 bentonite

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

14. STATIC WATER LEVEL: 12.4 ft. above/below 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

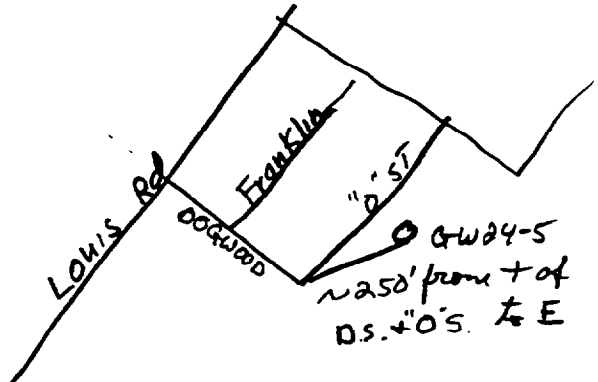
Airline Depth

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENTS 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 J Hinkle, Member 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: ONSCO W  
RIVER RD. CAMP LEBJUNE Quadrangle No. CAMP LEBJUNE  
(Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL, MARINE CORP BASE

DRILLING LOG GW28-1

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

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

DEPTH FROM TO

FORMATION DESCRIPTION (USGS Classification)

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

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO

0-30 SM

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

30-60 GM

8. FORMATION SAMPLES COLLECTED: YES  NO

60-165 SM

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

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) pour

\*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. 3/8" siliceous Sand  
2.17 3.92 bentonite

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

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

Casing in 2.38 ft. above land surface ELEV: 60.32

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

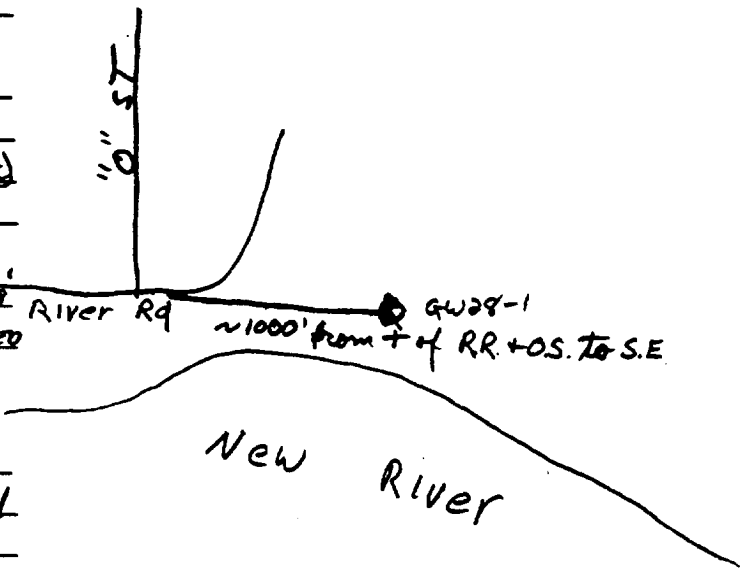
Airline Depth

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE 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. V. Nichols 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, CAMP LEJEUNE  
MAINE COAST BASE  
3. ADDRESS: OFFICE OF AC/S FACILITIES, CAMP LEJEUNE, N.C.

DRILLING LOG GW28-2

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

DEPTH FROM	TO	FORMATION DESCRIPTION (USCS Classification)
0-160		SM
160-165		SW
19.5-200		SM
200-210		woody part

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: 19.47 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 ft 2" Sch 40 PVC

10. GROUT: Depth Material Method  
From 0 to 2 ft Sand-cement (6:1) poored

\* If additional space is needed, use back of form

11. SCREEN: Depth Dia. Type & Opening  
From 50 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  
Restonite

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

14. STATIC WATER LEVEL: 2.8 ft. above/below top of casing  
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

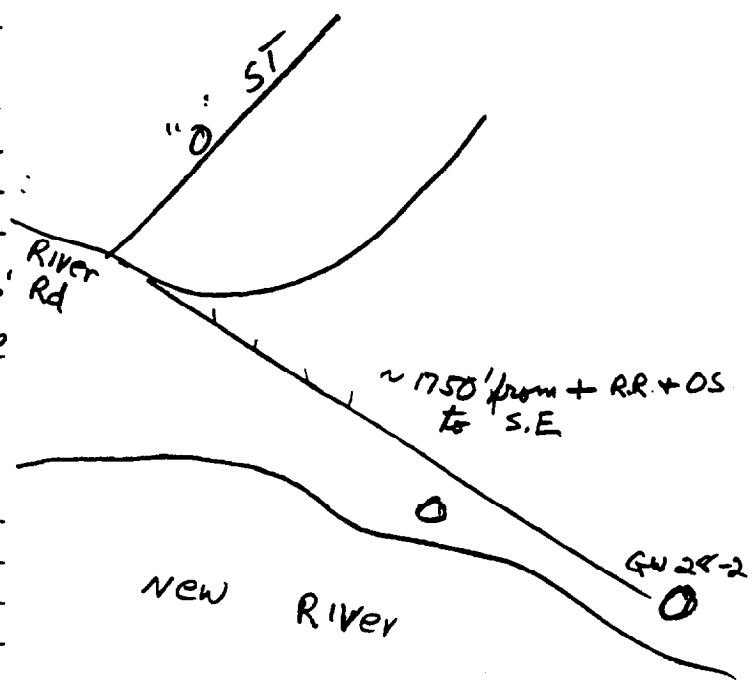
19. PERMANENT PUMP: Date Installed NA  
Type \_\_\_\_\_ Capacity \_\_\_\_\_ (gpm) HP \_\_\_\_\_  
Make \_\_\_\_\_ Intake Depth \_\_\_\_\_  
Airline Depth \_\_\_\_\_

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.

R. A. Kusch Momborg 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 ENG

DRILLING LOG G429-3

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

4. TOPOGRAPHY: draw, valley, slope, hilltop, flat (circle one) 28540 FROM TO 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 0-3.0 SM

7. TOTAL DEPTH: 18.57 RIG TYPE OR METHOD: H.S.A. 30-40 SM-SC

8. FORMATION SAMPLES COLLECTED: YES  NO 40-55 wood + other organics

9. CASING: Depth Inside Dia. Wall thick. type or weight/ft. 5.5-60 SM-SC

From 0 to 4.1 ft 2" Sch 40 PVC 60-7.5 peat

65-20.5 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 18.57 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 2.11 3.11 Silica Sand

bentonite

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

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 \_\_\_\_\_

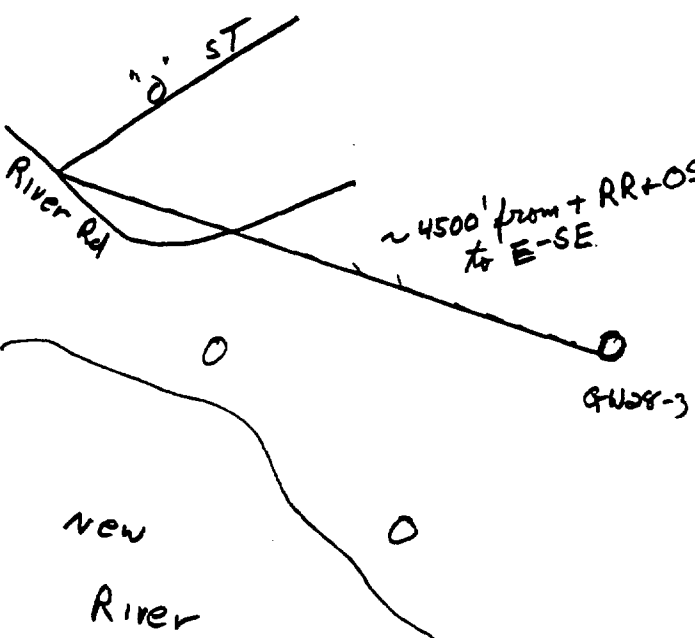
Airline Depth \_\_\_\_\_

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE 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. H. ... 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 SFS CONSULTANTS LTD. REG. NO. 191

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

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

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

2. OWNER: COMMANDING GENERAL, MARINE CORP BASE

DRILLING LOG GW30-1

3. ADDRESS: OFFICE OF A&S FACILITIES, CAMP LOJOUNE, 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: 7-6-84

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO

7. TOTAL DEPTH: 20.57 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 6.11 ft 2" Sch 40 PVC

10. GROUT: Depth Material Method

From 0 to 4.11 ft Sand-Cement (2:1) poored

11. SCREEN: Depth Dia. Type & Opening

From 6.11 to 20.57 ft 2" Sch 40 PVC  
.010 slot

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 (70C)

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

Casing is 2.5 ft. above land surface ELEV: -

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

16. PUMPING WATER LEVEL: 10.8 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 \_\_\_\_\_

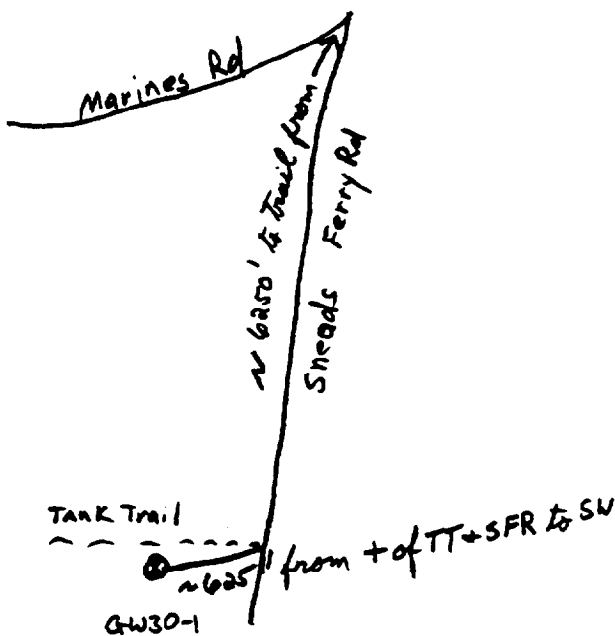
20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENT'S REQUIREMENTS AND RECOMMENDATIONS? yes

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. N. Humberger 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: ONSLOW  
"G" STREET CAMP LEJEUNE Quadrange No. JACKSONVILLE SOUTH  
(Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL, MARINE CORP BASE

DRILLING LOG GW36-1

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

4. TOPOGRAPHY: draw, valley, slope, hilltop, (circle one) flat 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 0-6.5 SM

7. TOTAL DEPTH: 21.00 RIG TYPE OR METHOD: H.S.A. 6.5-15.0 SM-SC

8. FORMATION SAMPLES COLLECTED: YES  NO 15.0-6.0 SM

9. CASING: Depth Inside Dia. Wall thick. type 6.0-7.5 SM-SC

From 0 to 6.5 ft 2" Sch 40 PVC 7.5-10.5 CL

15.0-21.5 SM

10. GROUT: Depth Material Method

From 0 to 3.2 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 5.33 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 \_\_\_\_\_

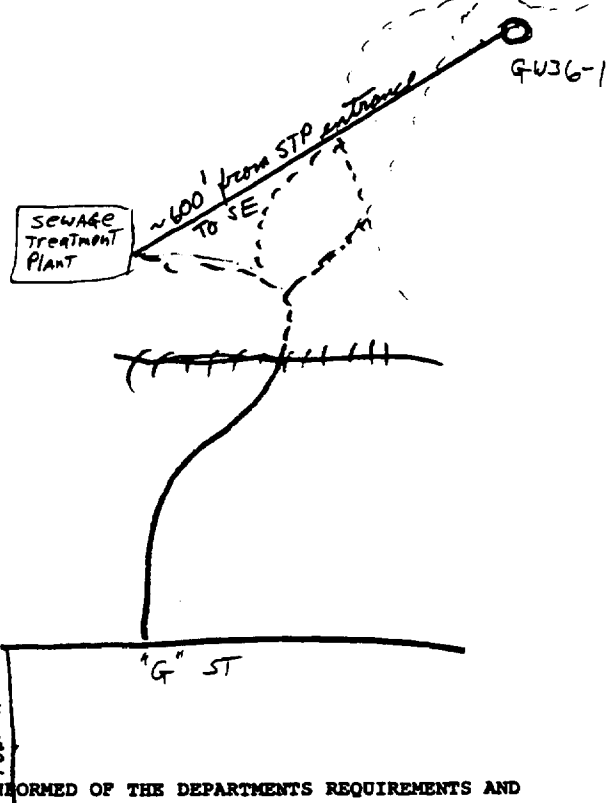
Airline Depth \_\_\_\_\_

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE 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.

RJ Hirschman 12-18-84  
SIGNATURE OF CONTRACTOR OR AGENT DATE



Doc No: CLEJ - 00693 - 1.05 - 1/8/85

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  
"G" STREET, CAMP LEJEUNE Quadrangle No. JACKSONVILLE SOUTH  
(Road, Community or Subdivision and Lot No.)

2. OWNER: COMMANDING GENERAL, MARINE CORP BASE

DRILLING LOG GN36-1R

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 Class.)

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 SM

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

1.5-3. SM-SC

8. FORMATION SAMPLES COLLECTED: YES  NO

3.-6. SM

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

6.-7.5 SM-SC

From 0 to 6.4 ft 2" Sch 40 PVC

7.5-10.5 CL

15.-21.5 SM

15.-21.5 SM

10. GROUT: Depth Material Method

From 0 to 2.5 ft sand-cement (5:1) poURED

\* 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 20-40 silica sand

283 492 Ben-tonite

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

14. STATIC WATER LEVEL: 5.0 ft. above top of casing 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 \_\_\_\_\_

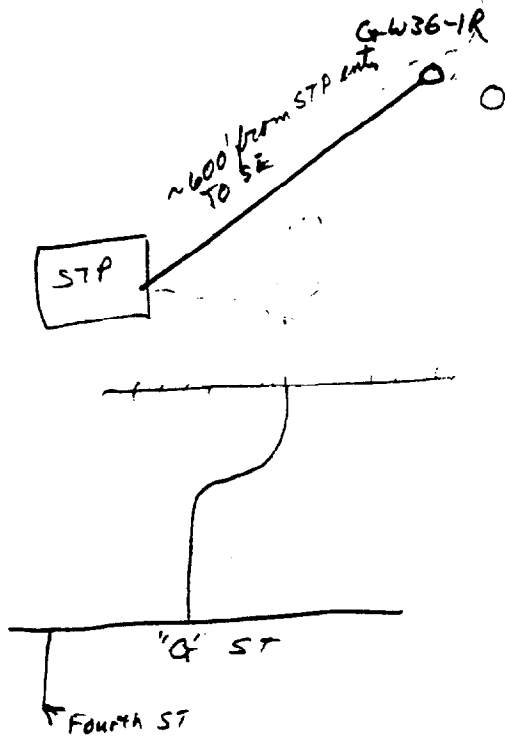
Airline Depth \_\_\_\_\_

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 Knobel Mombene 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: ONSDOW  
G STREET, CAMP LOUANE 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 LOUANE, N.C.

4. TOPOGRAPHY: draw, valley, slope, hilltop, (flat circle one) 2.85 to 2.85 to

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 SM

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

1.5-30 S.C-SM

8. FORMATION SAMPLES COLLECTED: YES  NO

30-6.0 SM

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

5.5-6.0 SC-SM

From 0 to 5.49 ft. 2" Sch 40 PVC

6.0-9.25 CL

9.25-21.5 SM

10. GROUT: Depth Material Method

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

11. SCREEN: Depth Dia. Type & Opening

From 5.49 to 19.92 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 4.42 to 19.92 ft. Silver Sand  
2.27 4.42 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 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 \_\_\_\_\_

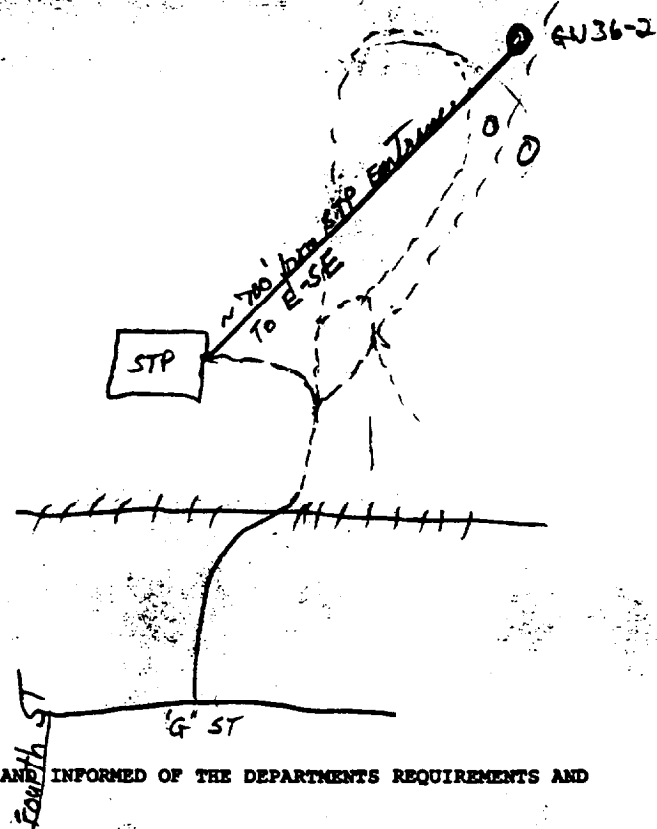
20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENTS REQUIREMENTS AND RECOMMENDATIONS? yes

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.

PA Kline 12/18/84

SIGNATURE OF CONTRACTOR OR AGENT DATE



Doc. NO: CL EJ -00693 -1.05 - 1/8/85

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: 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 GW36-3

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

4. TOPOGRAPHY: draw, valley, slope, hilltop, (flat) (circle one) 28740 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 0-6.5 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 (C) grout

11. SCREEN: Depth Dia. Type & Opening

From 4.31 to 18.79 ft. 2" S&W 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 2.92 to 18.79 ft. Silica Sand  
1.84 2.92 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? 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.

PA K... 12-18-84

