

DRILLING CONTRACTOR

REG. NO.

WELL CONSTRUCTION PERMIT NO.

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

Nearest Town: Kelly County: Bladen  
Old Flat Moore School SR1540 Quadrangle No. AA 35 N2  
(Road, Community or Subdivision and Lot No.)

2. OWNER: GW

DRILLING LOG

3. ADDRESS: Raleigh

DEPTH FROM TO

FORMATION DESCRIPTION

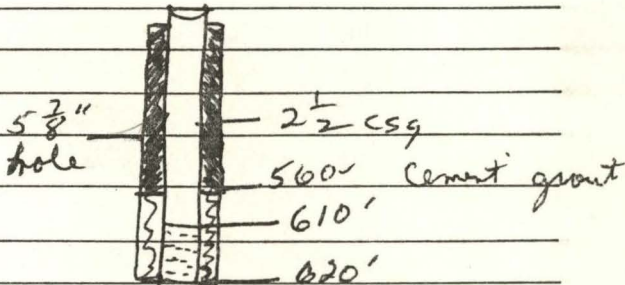
4. TOPOGRAPHY: draw, valley, slope, hilltop, flat (circle one)

5. USE OF WELL: obs DATE: 4-30-81

6. DOES THIS WELL REPLACE AN EXISTING WELL?

7. TOTAL DEPTH: 620 RIG TYPE OR METHOD: mud rotary

8. FORMATION SAMPLES COLLECTED: YES NO



9. CASING: Depth Inside Wall thick. type or weight/ft. From 0 to 610 ft 2 1/2 Blk iron

10. GROUT: Depth Material Method From 0 to 560 ft Cement grout Hydr

If additional space is needed, use back of form

11. SCREEN: Depth Dia. Type & Opening From 610 to 620 ft 2 1/2 .020 slot gals.

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

12. GRAVEL: Depth Size Material From to ft

13. WATER ZONES (depth): lbs pressure

14. STATIC WATER LEVEL: 17.5 above below top of casing Casing is ft. above land surface ELEV:

15. YIELD (gpm): 30 METHOD OF TESTING: air lift

16. PUMPING WATER LEVEL: ft. after hours at gpm.

17. CHLORINATION: Type HTH Amount 1/2 cup

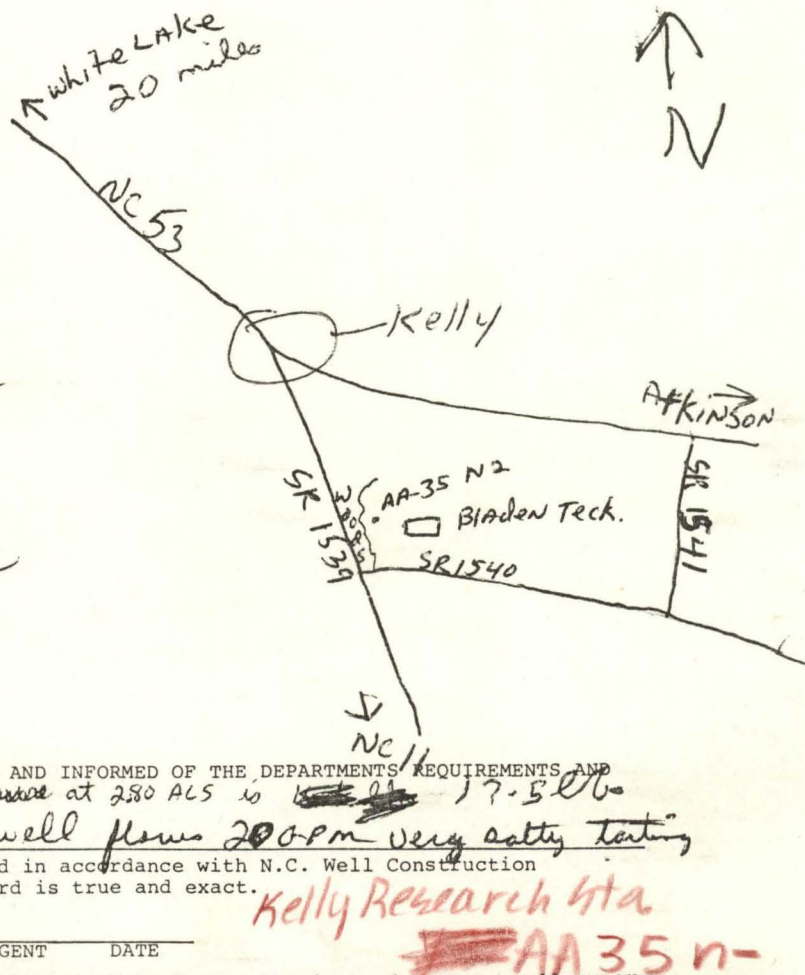
18. WATER QUALITY: Salty TEMPERATURE (°F) 21°C

19. PERMANENT PUMP: Date Installed 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? Pressure at 280 ALS is 17.500

21. REMARKS Sp Cond 6000 This well flows 200 gpm very salty tasting I do hereby certify that this well was constructed in accordance with N.C. Well Construction Regulations and Standards and that this well record is true and exact.

SIGNATURE OF CONTRACTOR OF AGENT DATE Timothy Hill



AA 35 n-

BL-T-3-81

KELLY STA.

NORTH CAROLINA

DEPARTMENT OF NATURAL AND ECONOMIC RESOURCES

GROUNDWATER SECTION

2

Lithologic Log

Well No.:

AA-35-N-2

Field \_\_\_\_\_

Office \_\_\_\_\_

USGS \_\_\_\_\_

Log by: TIMMY HILL Date 4-13-81 County Bladen

Location, Town Kelley

Owner (GW) Driller T. Hill Date Drilled 4-22-81

Depth \_\_\_\_\_ ft.; Diam. 5 7/8 in.; Cased to \_\_\_\_\_ ft.; Elev. \_\_\_\_\_ ft. above MSL

Cuttings  Elec. Log  Gamma log

Description	Depth (feet)		Thickness	
	from	to	Drill (feet)	Rate
white, yellow, brown coarse sand	0	5	1m	30s
SAME AS ABOVE w/some gray clay	5	10		21s
Large gravel sand w/ gray clay	10	15		15s
gray clay	15	20	8m	24s
" " w/ shell rock 1ft thick	20	25	12m	14s
" " w/some Blk pepper sand	25	30	1m	10s
gray clay	30	35	5m	12s
SAME AS ABOVE	35	40	2m	15s
gray clay	40	45	4m	05s
gray sand clay w/ shell + Blk pepper sand	45	50	1m	32s
SAME AS ABOVE	50	55		58s
SAME AS ABOVE	55	60	1m	42s
gray sandy clay, w/shell, sandstone rock layers + Blk pepper sand	60	70	17m	15s
Blk pepper sand w/ gray clay	70	80	2m	33s
Rock at 81'-82' very hard med grain gray sand	80	90	75m	40s
Rock at 90'-92' Rock at 96'- gray sandy clay	90	100	65m	10s
Rock at 102-103' gray sandy clay	100	110	35m	25s
Rock at 112'-113'-118'-120' gray sand clay	110	120	28m	05s
Rock layer with some sand	120	130	25m	20s

LITHOLOGIC LOG (continuation sheet)

Well No.: Field \_\_\_\_\_  
 Office \_\_\_\_\_  
 USGS \_\_\_\_\_

Description	Depth (feet)		Thickness (feet)
	from	to	
Rock layers w/ sandy gray clay	130	140	Drill FAT 20m 45S
Rock layers w/ sandy gray clay + sand layers	140	150	5m 30S
fine Blk pepper sand w/ some gray clay	150	160	3m 05S
SAME AS ABOVE w/ Rock layers	160	170	75m 30S
fine Blk pepper sand w/ rock layers	170	180	50m 30S
gray clay	180	190	6m 05S
SAME AS ABOVE	190	200	8m 48S
" " "	200	210	10m 33S
" " "	210	220	8m 37S
" " "	220	230	15m 25S
gray sandy clay w/ Blk pepper sand	230	240	4m 30S
gray sandy clay	240	250	6m 45S
SAME AS ABOVE	250	260	10m 22S
" " " w/ rock layers	260	270	12m 32S
gray sandy clay	270	280	5m 02S
gray clay w/ some Blk pepper sand	280	290	5m 20S
gray clay w/ fine Blk pepper sand	290	300	11m 20S
gray clay w/ fine Blk pepper sand + rock layers	300	310	29m 0S
SAME AS ABOVE	310	320	6m 40S
fine Blk pepper sand w/ gray clay + rock layers	320	330	3m 25S
SAME AS ABOVE	330	340	3m 0S
" AS "	340	350	4m 10S
" " "	350	360	4m 25S
gray clay	360	370	16m 0S
gray clay w/ fine Blk pepper sand	370	380	17m 50S

# BL-T-3-81

Kelly

LITHOLOGIC LOG (continuation sheet)

Well No.: Field

AA-32N-2

Office

USGS

Description	Depth (feet)		Thickness (feet)
	from	to	
gray clay w/ fine blk pepper sand	380	390	Drill Rate 9m 055
SAME AS ABOVE	390	400	8m 425
gray clay w/ fine gray sand	400	410	22m 05
gray clay w/ fine gray + blk pepper sand + rock layers	410	420	18m 385
gray clay w/ fine gray + blk pepper sand	420	430	21m 555
fine gray + blk pepper sand w/ gray clay	430	440	7m 045
SAME AS ABOVE	440	450	8m 145
" " "	450	460	3m 155
SAME as above w/ rock layers	460	470	4m 155
gray clay w/ some blk pepper + gray sand	470	480	15m 255
SAME AS ABOVE	480	490	15m 255
Sand layers w/ light color gray clay	490	500	5m 255
SAME AS ABOVE w/ very little gray clay	500	510	3m 105
Drilled as a hard clay, sample shows blk pepper + <sup>fine</sup> gray sand	510	520	10m 255
fine gray + blk pepper sand w/ clay layers	520	530	16m 155
SAME AS ABOVE	530	540	3m 505
Drills as clay - sample shows fine gray + blk pepper	540	550	7m 195
fine gray + blk pepper sand w/ clay layers	550	560	3m 405
various color sands - drilled as clay	560	570	20m 05
Drills as clay, sample shows various color sands	570	580	25m 055
SAME AS ABOVE	580	590	19m 05
various color sands + clay -	590	600	16m 255
SAME AS ABOVE	600	610	14m 055
various color sand layers w/ some various color clay layers	610	620	1m 405
various color clay + sand	620	630	26m 505
SAME AS ABOVE	630	640	16m 525

CLAY MIXED IN

BL-T-3-81

AA-35-N-2

LITHOLOGIC LOG (continuation sheet)

Well No.: Field \_\_\_\_\_

Office \_\_\_\_\_

USGS \_\_\_\_\_

Description	Depth (feet)		Thickness (feet)
	from	to	
Various color clays + sands	640	650	49m 10s
SAME AS ABOVE	650	660	52m 45s
Various color clay + sands	660	670	2m 26m

BL-T-3-81

KELLY

SR-1539

1 1/10 MILES

AA-3510-  
LANE

NC 53

DUBLIN STR.

→ TO ATKINSONS

1/10 MILE  
SR-1540

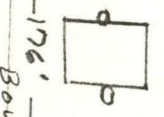
WOODS

TRAILER HOME

DIRT ROAD

300'

DIRT DRIVE



BOUNDARY LINE

176'

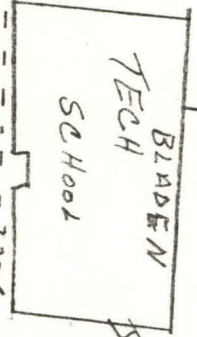
1 1/2" WELL

DIRT DRIVE

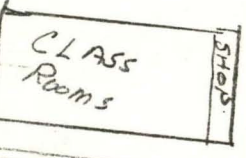
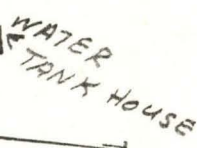
PAPER WOOD PROPERTY

WOODS

258'



SEPTIC TANK + LINES



220'

658'

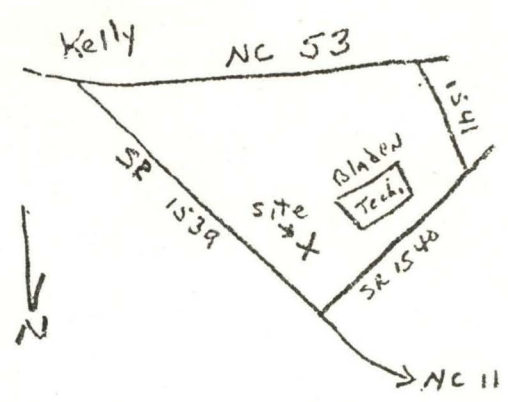
HOUSE

WOODS



BL-T-3-81 (5)

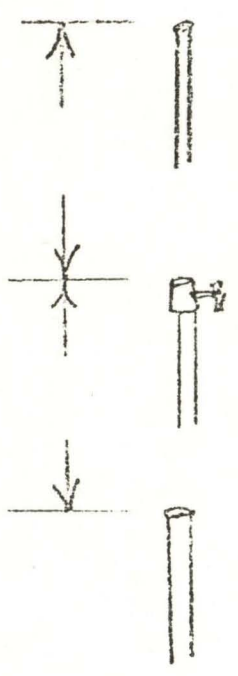
Well	Total Depth	Screen	SWL (M.P)	Date	Elev.	MP (KS)	GPM	Well Dia.
A35,N1	14'	10-14	7.11	1/8/81			30	1 1/4"
A35,N2	620	610 620	17.5 PRESSURE	4/30/81			30	2 1/2"
A35,N3	84	74 84	9.53	6/11/81			20	2 1/2"



342720  
78 18 18

Kelly STATION Site Bladen Co.

1.5. elev =  $\approx 29'$



Bladen  
Tech.

SR 1540

5

RESEARCH STATION

KELLY STA.

NAME KELLY STA.

GRID AA-35, N-

COUNTY BLADEN

DATES: STARTED 1-8-81

LEFT 1-8-81 CONTINUED 4-9-81

COMPLETED 6-30-81

WELL NO.	TOTAL DEPTH	WELL DIA	SCREEN or OH	DATE	MP (LS)	SWL (MP)	ELEV (MP)	SWL (MSL)	Q (GPM)	CL (PPM)	TEMP (°C)	AQUIFER
N-1	14	1 1/4	10-14	1-8-81	.0	7.11			30		65°F	SAND
*N-2	670	5 7/8	BORING	4-22-81								
N-2	670	2 1/2	610-620	4-30-81		FLOW 17.5 LBS PRESSURE			30		21°C	SAND
N-3	550	5 7/8	BORING	5-13-81								
N-3-A	550	2 1/2	534-544	5-19-81	24.93	15.60			.05		24°C	SAND
N-3-B	550	2 1/2	448-458	6-1-81	24.92	15.72			30		21°C	SAND
N-3-C	550	2 1/2	320-330	6-8-81	24.95	23.06			30		21°C	SAND
N-3-D	550	2 1/2	150-160	6-10-81	3.70	9.19			20		21°C	SAND
N-3	84	2 1/2	74-84	6-11-81	2.40	9.53			20		20°C	SAND
N-4-T	84	4	74-84	6-29-81	3.24	9.48			60		21°C	SAND

WELL NO.	CASING				SCREENS		PACKERS		SACKS		TOTAL SUPPLIES					
	SIZE	FT	SIZE	FT	NO.	SIZE	NO.	SIZE	CLAY	CEMENT	CASING	SIZE	FT.	NO.	SACKS	\$
N-1	1 1/4	10			1	1 1/4				2		1 1/4	10			8.00
N-2	2 1/2	610			2	2 1/2			15	100		2 1/2	684			2052.00
N-3	2 1/2	74			2	2 1/2			17	55		4				
N-4-T									1	15		6				
												8				
												10				
											SCREENS	1 1/4		1		45.20
												2 1/2		4		334.00
												4				
												6				
												8				
											PACKERS	6x4				
												4x2 1/2				
											CLAY				33	214.50
											CEMENT				172	799.80

SUPPLIES COST 3,453.50  
 SITE PREPARATION \_\_\_\_\_  
 OTHER \_\_\_\_\_

DATE	1-8-81	6-30				
BY	O.H.	O.H.				



DRILLING CONTRACTOR

REG. NO.

WELL CONSTRUCTION PERMIT NO.

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

Nearest Town: Kelly County: Bladen  
Old Nat Moore School Quadrangle No. AA 35-N3a  
 (Road, Community or Subdivision and Lot No.)

2. OWNER: GW

DRILLING LOG

3. ADDRESS: Raleigh

DEPTH FROM TO FORMATION DESCRIPTION

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

5. USE OF WELL: Temp Test DATE: 5-19-81

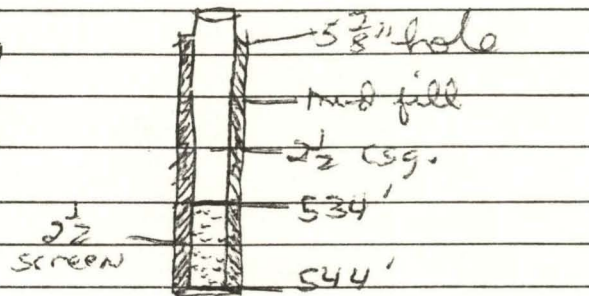
6. DOES THIS WELL REPLACE AN EXISTING WELL? \_\_\_\_\_

7. TOTAL DEPTH: 550 RIG TYPE OR METHOD: mud rotary

8. FORMATION SAMPLES COLLECTED: YES \_\_\_\_\_ NO \_\_\_\_\_

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

From 0 to 534 ft 2 1/2 PLD iron



10. GROUT: Depth Material Method

From \_\_\_\_\_ to \_\_\_\_\_ ft \_\_\_\_\_

If additional space is needed, use back of form

11. SCREEN: Depth Dia. Type & Opening

From 534 to 544 ft 2 1/2 020 slot galv.

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

12. GRAVEL: Depth Size Material

From \_\_\_\_\_ to \_\_\_\_\_ ft \_\_\_\_\_

13. WATER ZONES (depth): \_\_\_\_\_

14. STATIC WATER LEVEL: 1560 ft. below top of casing

Casing is 24.93 ft. above land surface ELEV: \_\_\_\_\_

15. YIELD (gpm): 1 METHOD OF TESTING: AIR LIFT

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

after \_\_\_\_\_ hours at \_\_\_\_\_ gpm.

17. CHLORINATION: Type HTH Amount 1 cup

18. WATER QUALITY: \_\_\_\_\_ TEMPERATURE (°) 24°C

19. PERMANENT PUMP: Date Installed \_\_\_\_\_

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

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

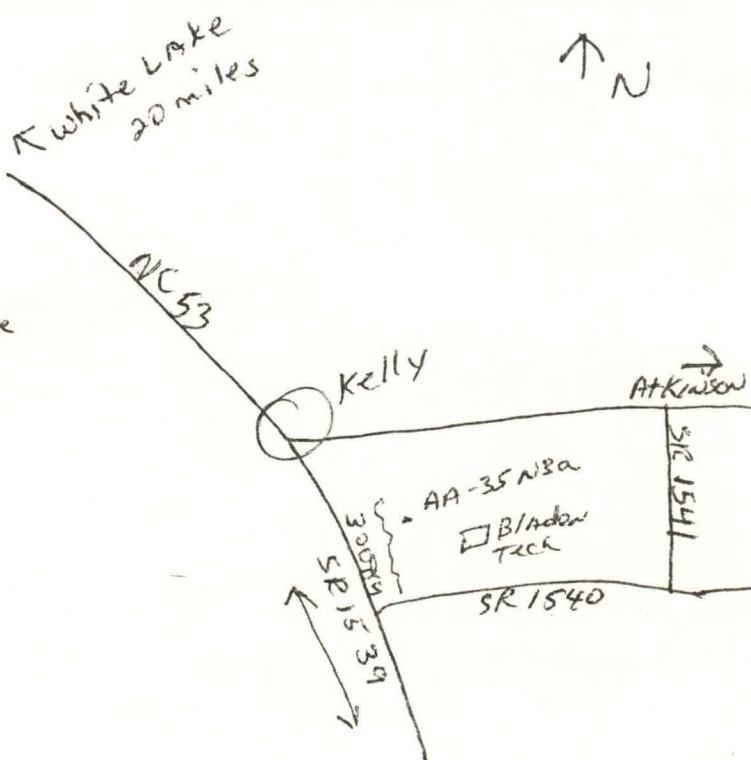
Airline Depth \_\_\_\_\_

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

21. REMARKS Sp cond 3700 flow trickle

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.

Timothy Hill SIGNATURE OF CONTRACTOR OF AGENT DATE



DEPARTMENT OF NATURAL AND ECONOMIC RESOURCES

GROUNDWATER SECTION

AA-35-N-3

Lithologic Log

Well No.:

Field

Log by: Tony Hill Date \_\_\_\_\_ County Bladen

Office

USGS

Location, Town Kelly

Owner CW Fash Driller T Hill Date Drilled 5-12-91

Depth 50 ft.; Diam. 5 7/8 in.; Cased to \_\_\_\_\_ ft.; Elev. \_\_\_\_\_ ft. above MSL

Cuttings \_\_\_\_\_ Elec. Log \_\_\_\_\_ Gamma log \_\_\_\_\_

Description	Depth (feet)		Thickness (feet)
	from	to	
gray clay w/ sand layers	400	410	Drill Rate 15m 455
gray clay w/ fine sand + sand layers	410	420	4m 405
gray sandy clay	420	430	23m 105
gray clay w/ sand layers	430	440	15m 505
same as above	440	450	12m 355
sand layer w/ some gray clay	450	460	4m 405
gray + blk pebbles sand w/ gravel + sand layers	460	470	4m 475
gray clay w/ blk pebbles + gray sand layers	470	480	15m 365
same as above	480	490	13m 305
sand layers w/ gray clay	490	500	5m 275
same as above	500	510	3m 505
gray clay w/ sand layers	510	520	12m 105
gray + blk pebbles sand w/ rock layers	520	530	27m 255
gray + blk pebbles fine sand	530	540	3m 135
gray clay + some fine sand	540	550	11m 555