| | |
|---|---|
| STATE | COMPANY BW-P-2-77 |
| COUNTY | FARM WELL NO. |
| BLOCK | SURVEY |
| SEC. | |
| T. R. | TOTAL DEPTH |
| | COMMENCED |
| | COMPLETED |
| ALTITUDE | REMARKS |
| PRODUCTION | |

## CASING RECORD

} = cuttings

: core

* AMOUNT OF CORE

NOTE: CASING @ 61'

2 wells with SAME LOCATION for the cuttings. SAMPLES from well #2 marked with AN Asterisk here

SHOT QUARTS BETWEEN

Kraftbilt 186-B TULSA 74101 PRINTED IN U.S.A.


*White fine grained subrounded Quartz SAND. Trace medium and coarse grains.

*SAME AS ABOVE plus traces of IRON STAINED grains and violet grains of quartz sand

*SAME AS ABOVE

*COARSE to FINE grained subrounded SAND, 5% Abraded Pelecypod fragments, Traces of IRON STAINED grains, MICA + MICROFAUNA (1 ostracode, 1 Foram. - Elphidium SP.) Also, 1% BLACK Mineral grains

Abund. Lg. white Pelecypod shells plus SANDSTONE, grey, fine grained

Off-white FINE GRAINED SAND, 3% Shell fragments (Pelecypods, barnacles, gastropods, forams - 2 Quinqueloculina) plus 7% Medium to COARSE grains

*Grey COARSE grained SAND + 3% mostly well preserved gastropods and bivalves.

33' Limestone, White-Lt. Grey, Dense-Chalky with Traces of glauconite at top, and thin intervals of Medium-grained sandstone and phosphate rich sandstone

PHOSPHATE RICH SANDSTONE

COARSE GRAINED SAND WITH 10% SHELLS & BRYOZOANS

70'

DENSE WHITE TO LIGHT GREY LIMESTONE WITH ABUNDANT BRYOZOAN FOSSILS.

80'

SAME AS ABOVE BUT FOSSILS LESS WELL PRESERVED

SAME AS ABOVE

90'

LIMESTONE, LT. TO MEDIUM GREY, DENSE, SLIGHTLY CHALKY, SLIGHTLY SANDY. 2-4MM GLAUCONITE PEBBLES IN UPPER 3". BIVALVES PRESENT, BRYOZOANS RARE.

24"

100'

BRYOZOAN LIMESTONE, SUPPER 36" ARE WHITE, SLIGHTLY SANDY - ONE GOOD ECHINOID; MIDDLE 20" ARE LIGHT GREY, RECRYSTALIZED, WITH TRACES OF GLAUCONITE SAND; LOWER 12" GLAUCONITIC SANDY GRY. LIMESTONE; & ASAL 4" GLAUCONITIC

72"

Contact

110'

BRYOZOAN MASA

120'

130'

PELECYPOD LIMESTONE - CREAMY, UNIFORM, SANDY BIOCLAST LIMESTONE. DISSOLUTION OF SHELLS MODERATLY HEAVY. DENTALIA PRESENT, IN PLACE

30"

140'

SAME AS ABOVE

28"

150'

QUARTZ SANDSTONE, MEDIUM GRAINED, SUBROUNDED TO SUBANGULAR, 10% CALCAREOUS CLASTS. CEMENT IS CALCAREOUS AND SILTY. TRACES OF ORANGE CLAYS. FOSSILS NOT OBSERVED.

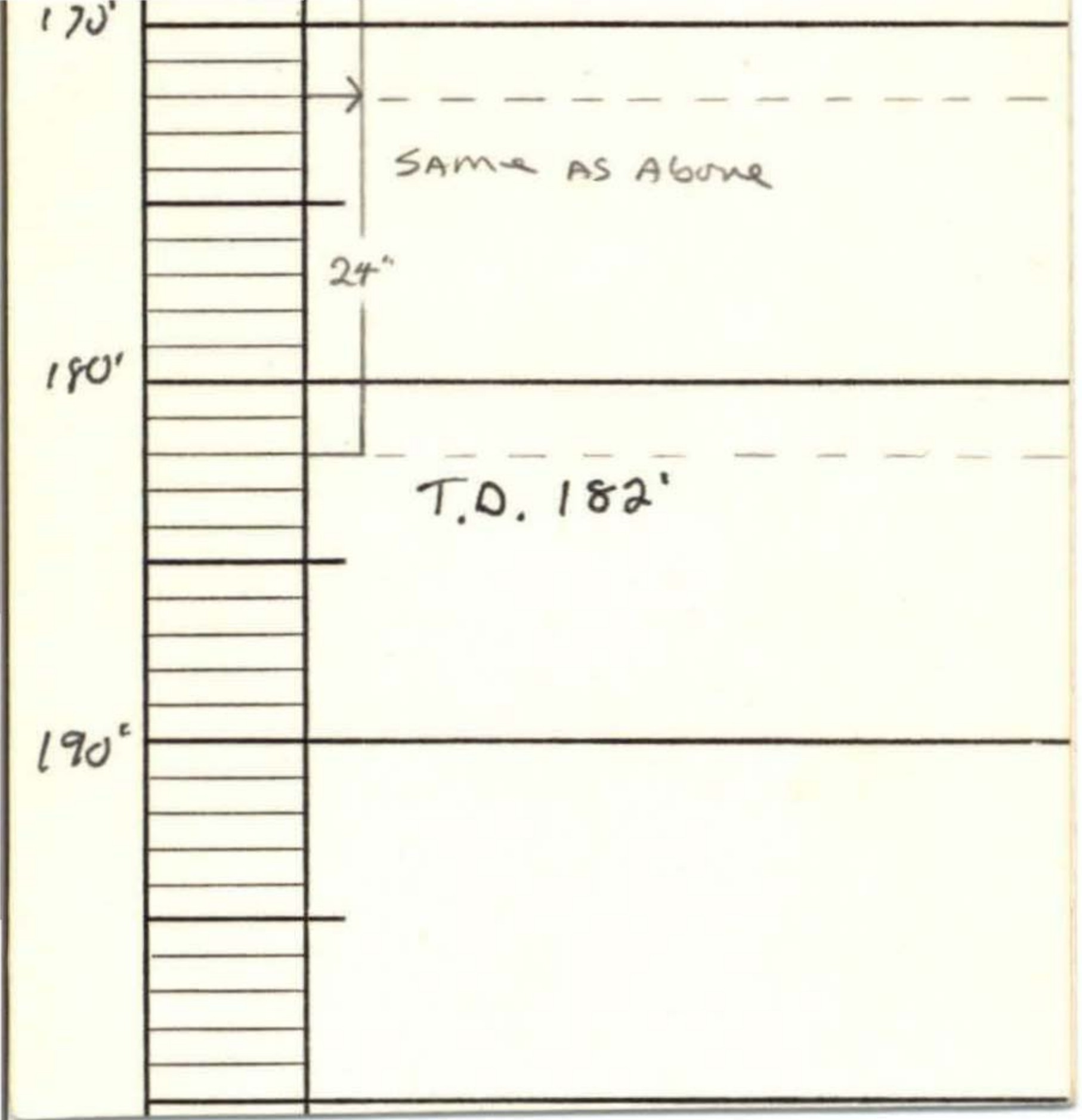
64"

160'

SAME AS ABOVE

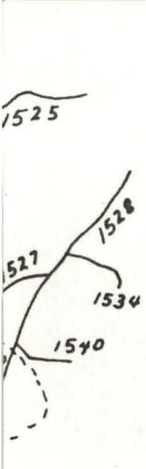
16"

170'


170'
SAME AS ABOVE
24"
180'
T.D. 182'
190'

GW Grid GG-32, u-1
Research Sta. 5 well 1
TD 182'

BR-P-2-
BW-P-2-77 77




# GEOPHYSICAL LOG

33°55'55"
78°01'00"

NORTH CAROLINA
DIVISION OF GROUND WATER
DEPARTMENT OF WATER AND AIR RESOURCES

drilled 2/12/70
logged 2/2/77

BR-P-2-77

LOG NO. 1067

LOG BY: Tommy L. Gardner DATE: 2-2-77 WELL NO. GG32 u-1

LOCATION: See sketch above. COUNTY: Brunswick Sta. #5 - Well

.6 miles N.E. of N.C. #211, on S.R. #1527, and 20' W. of S.R. #1527.

OWNER: D.G.W. DRILLER: D.G.W. DATE DRILLED: 2-12-70

DEPTH: 103 ft. DIA.: 6 in CASING: 61 ft. ELEV.: 20' ref. MS

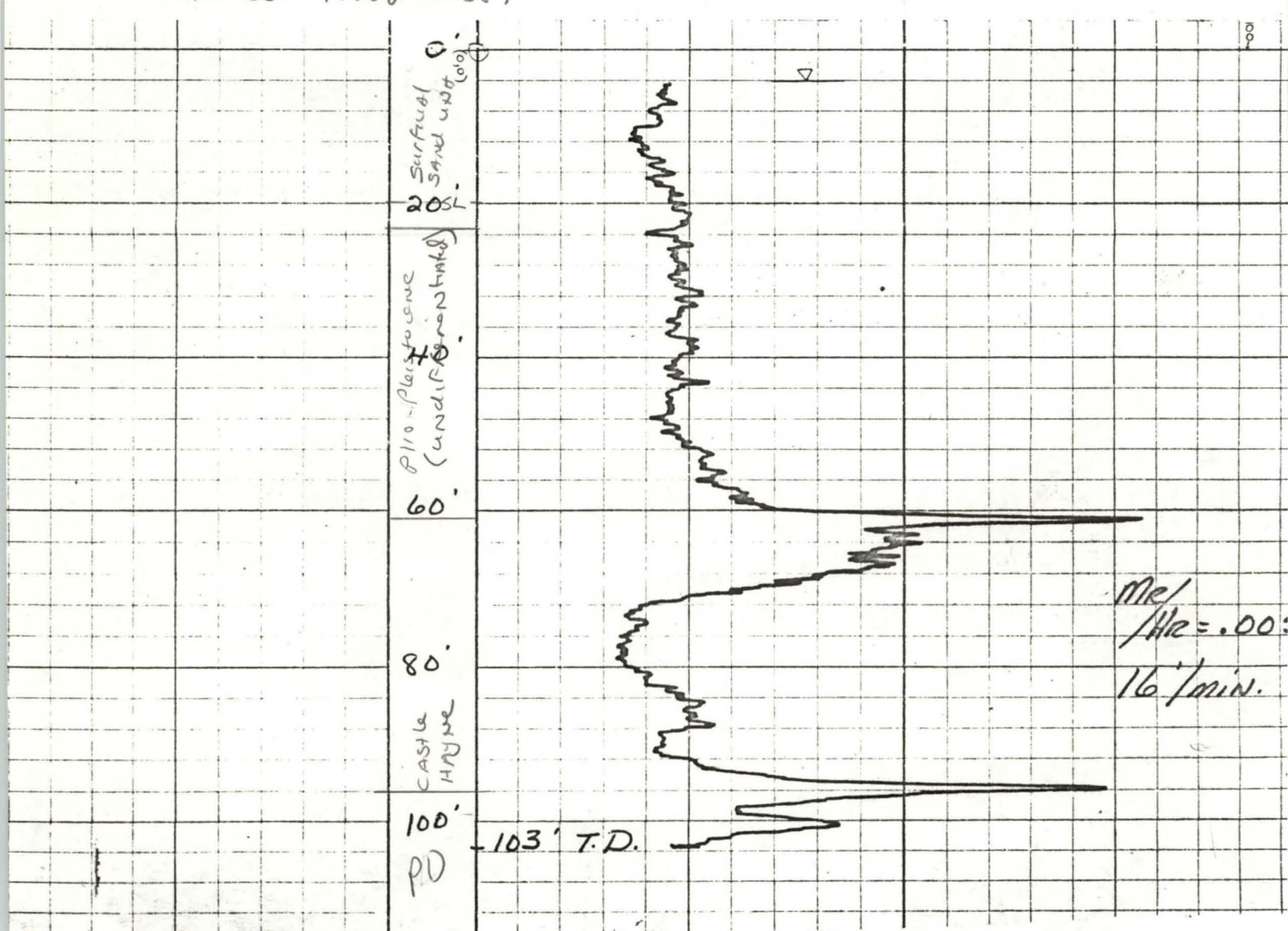
POTENTIAL: 30-100 mv/10 div. RESISTIVITY: 50-100-200 ohms/10 d

MR/HR: .005

LOGGING RATE: PR 40 ft./min. GAMMA: 16 ft./min. T. C.: 1

TD @ 182' in our files
we have core to 182' also.

PW2NGR




Note: Ctgs 0-91' - intermittent
core - top PD IN gap between 111' and 132' - @ 132'
IN PD limestone

OVER

The Peedee top was interpreted at − 120 (drill depth) ± 10. This well is in the middle of a Beaufort "wedge", but the tops of the Beaufort and the Thickness of the Castle Hayne were NOT interpreted because the bottom of the log is @ 103' (- where core indicates the Castle Hayne is present) and there is a sample gap between 111' and 132'.

The γ ray peak at 96' may be attributed to the New Hanover Member.

23 7/90

looked at this one again. Log correlation suggests top of PD may be @ 98'. Core sample labeled 102'- 111' is 2' long (C. H. Mth.), so if the #s are accurate, this would put Castle Hayne as far down as 104'. Average Thickness of C. H. in 3 nearest wells is 35'. If top of C.H. is 61', an estimated top of PD would be 96' (assuming the C.H. is of uniform thickness here). This coincides very closely with the log pick.
- called regional GW office to see if they have more log info on this well 7/25/90 JS

8/7
Considering control from nearby wells + consistent structure contours + isopachs, the log is probably accurate + the core is probably mislabeled. For the time being I'm picking the top of the PD @ 96' JS