

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1. TYPE OF WORK

DRILL ☐ Re-enter DEEPEN ☐ PLUG BACK ☐

2. TYPE OF WELL

OIL WELL ☐ GAS WELL ☐ OTHER Disposal SINGLE ZONE ☐ MULTIPLE ZONE ☐

3. NAME OF OPERATOR

Anadarko Petroleum Corporation

4. ADDRESS OF OPERATOR

P.O. Drawer 130, Artesia, New Mexico 88211-0130

5. LOCATION OF WELL (Report location clearly and in accordance with any State requirements *)

At surface Unit Letter C
660' FWL & 1980' FWL
At proposed prod. zone

6. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE *

12 miles south from Maljamar, New Mexico

7. DISTANCE FROM PROPOSED

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

660

8. NO. OF ACRES IN LEASE

240

9. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

1683'

10. PROPOSED DEPTH

4300'

11. NO. OF ACRES ASSIGNED
TO THIS WELL

None-Water Disposal Well

12. ROTARY OR CABLE TOOLS

Rotary

13. ELEVATIONS (Show whether DF, RT, GR, etc.)

Capitan Controlled Water Basin

14. APPROX. DATE WORK WILL START *

11-25-91

15.

[RE-ENTRY]

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
NR	8-5/8"	24 & 28	1238'	500 sxs Class "C" <u>CIRCULATE</u>
7-7/8" to 4300'	4-1/2"	10.5	3500'	750 sxs Lite + 100 sxs Class "C" <u>CIRCULATE</u>

8-5/8" Surface Casing: Bowl over 8-5/8" casing stub @ 600' with a casing bowl on 8-5/8", 24#, K-55, ST&C casing. Cement to surface with 500 sacks Class "C" w/2% CaCl₂.

4-1/2" Production Casing: Set Formation Packer Shoe @ 3500' on 4-1/2", 10.5#, K-55, ST&C casing. Cement to surface with 750 sacks Lite w/15#/sx salt, 1/4#/sx Flocco. Tail-in with 100 sacks Class "C" w/1 1/2% Halad-322, 3#/sx ECL.

Application for Permit to Re-enter this plugged well (formerly Hudson & Hudson Saunders "A" No. 1) and utilize this wellbore for Salt Water Disposal into the Capitan Reef formation from 3500' - 4300' (open hole).

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

16.

SIGNED

James E. Anobile

TITLE Area Supervisor

DATE 11-21-91

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY: THE SWD IS:

12-16-91

*See Instructions On Reverse Side

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

ITEM 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

ITEM 22: Consult applicable Federal or State Regulations, or appropriate officials, concerning approval of the proposal before operations are started.

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information requested by this application. 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR Part 3160.

PRINCIPAL PURPOSE. The information is to be used to process and evaluate your application for permit to drill, deepen, or plug back an oil or gas well.

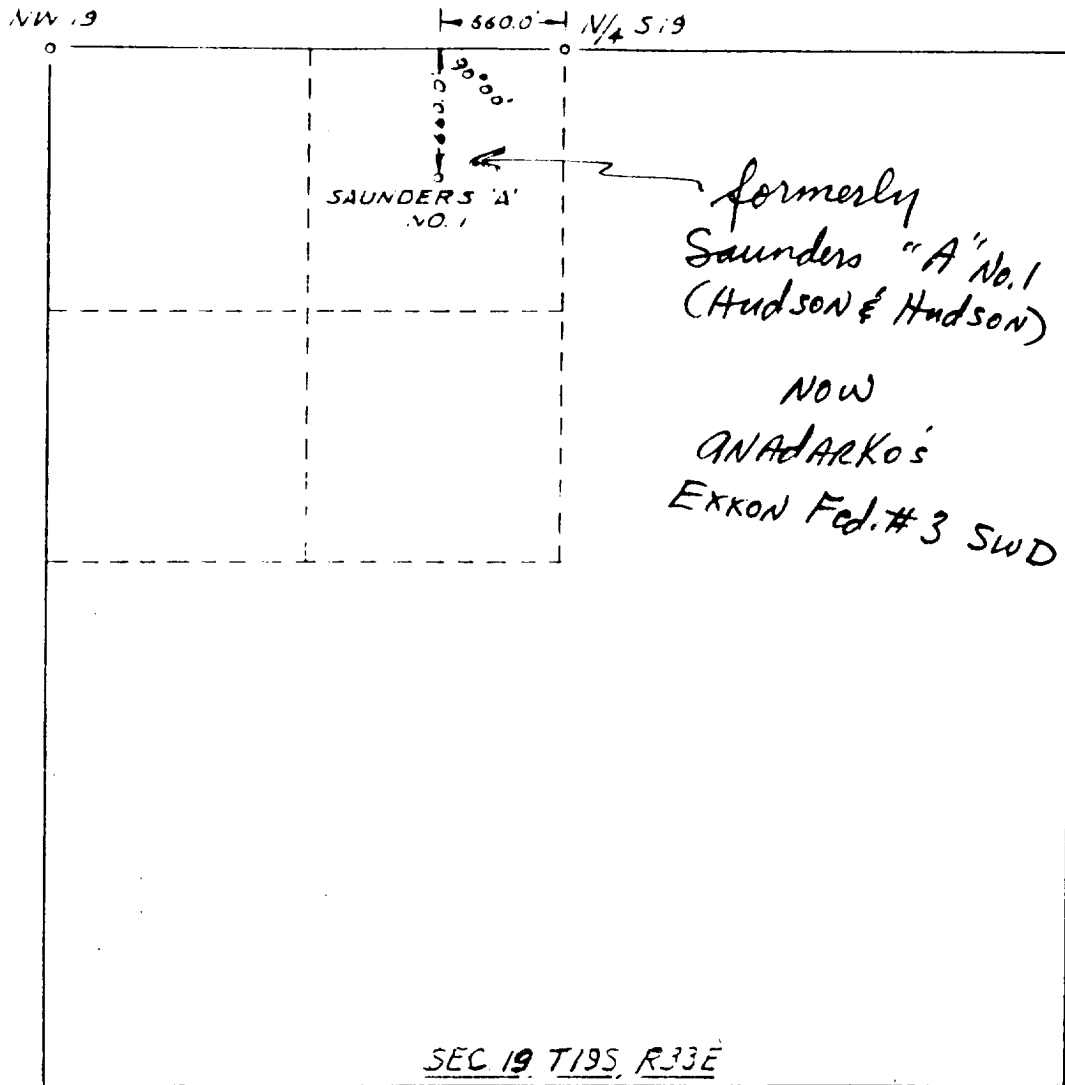
ROUTINE USES: (1) The analysis of the applicant's proposal to discover and extract the Federal or Indian resources encountered. (2) The review of procedures and equipment and the projected impact on the land involved. (3) The evaluation of the effects of proposed operation on surface and subsurface water and other environmental impacts. (4)(5) Information from the record and or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions, as well as routine regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if the lessee elects to initiate drilling operations on an oil and gas lease.

LET'S GO... MEN'S PRINTING OFFICE 1968 • 573-0178/1977

OPERATOR HUDSON & HUDSON, INC.
LEASE SAUNDERS A
LOCATION NO. 1
COUNTY EDDY STATE NEW MEXICO

DATE 1-31-57
SCALE 1"=1000'



I certify that the above plan was prepared
from notes of an inspection of the
land and the well and the well log
and other data.

Ben T. Phillips Jr. L.S.

APPLICATION FOR PERMIT TO RE-ENTER AND DEEPEN
ANADARKO PETROLEUM CORPORATION
EXXON FEDERAL SWD NO. 3
330' FNL & 1980' FWL
SEC. 19, T19S, R33E; NMPM

In conjunction with Form 3160-3, Application for Permit to Drill, Anadarko Petroleum Corporation submits the following items of pertinent information in accordance with Onshore Oil & Gas Order Nos. 1 & 2, and with all other applicable federal and state regulations.

1. The geologic surface formation is of alluvium and Bolson deposits of quaternary age.
2. Estimated tops of geologic markers are as follows:

Rustler	1050'
T. Salt	1185'
B. Salt	2815'
Yates	2815'
T. Reef	3236'
B. Reef	4960'

3. The estimated depths at which water, oil, or gas formations are expected to be encountered:

* Water: 150' - 1050' Red Bed

*Groundwater to be protected by 8-5/8" surface casing with cement circulated to the surface.

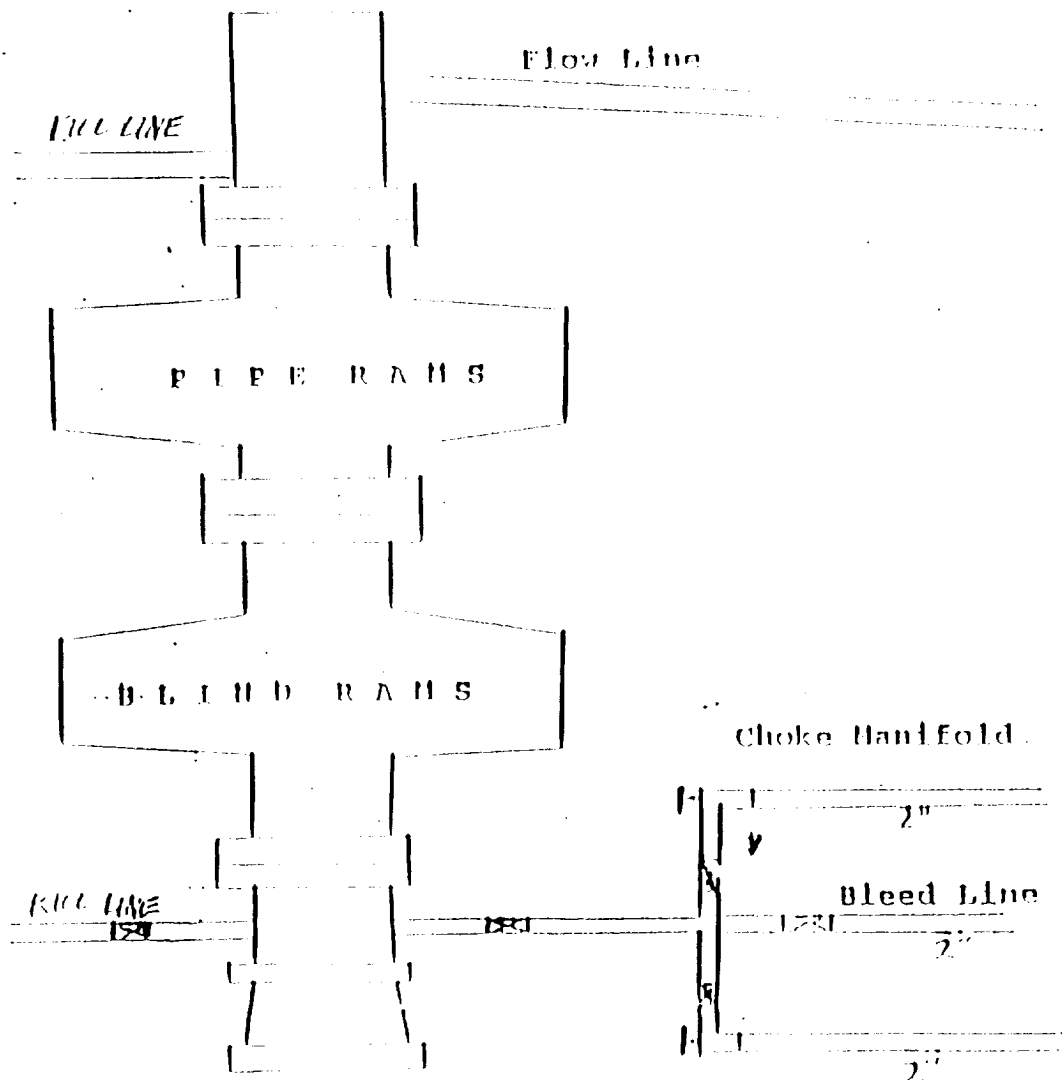
4. Proposed Casing Program:

0' - 1238' Surface
(1238') 8-5/8", 24#, K-55, ST&C

0'-3500' Production Casing
(3500') 4-1/2", 10.5#, K-55, ST&C

For additional Proposed Casing Program Information,
see Form 3160-3 and Exhibit B.

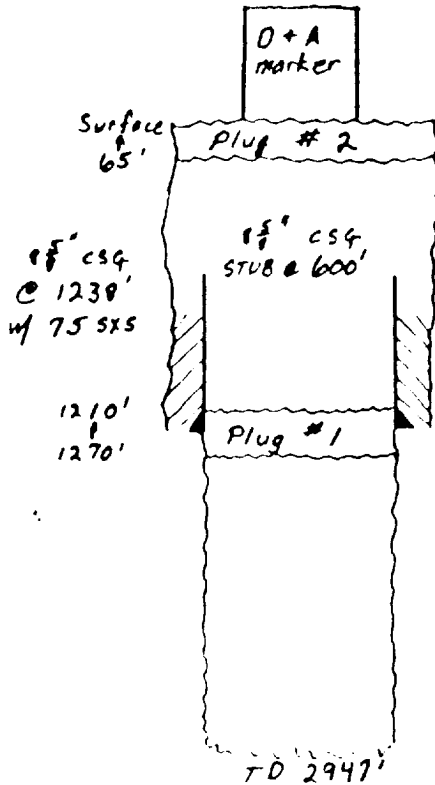
5. Pressure Control Equipment: See Exhibit C.
6. Mud Program: See Exhibit D.
7. Auxilliary Equipment: Upper Kelly Cock, Full Opening Stabbing Valve.
8. Testing, Logging, and Coring Programs:
DST's: None
Logging: None



2M SYSTEM

Exhibit C

WELL DATA SHEET



Before Re-entry

Date Spudded: February 24, 1957

Plugged: March 2, 1957

8-5/8" casing @ 1238' w/75 sxs

14 jts 28#

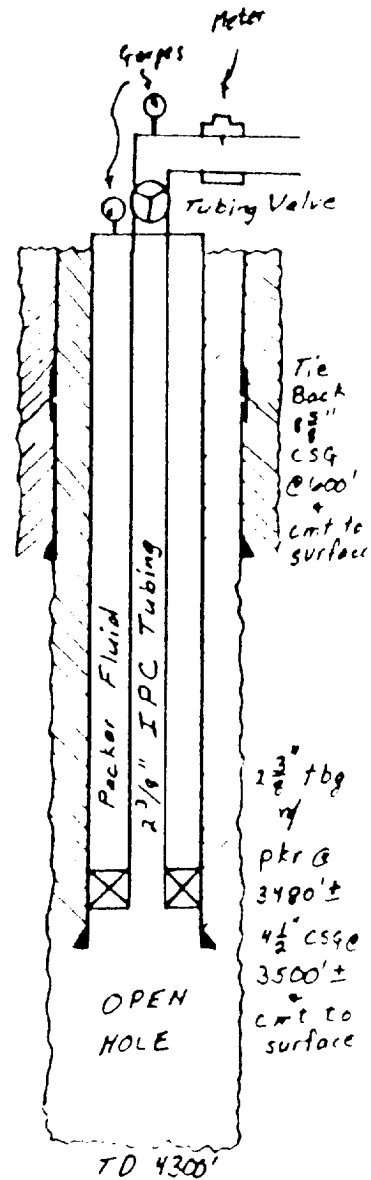
26 jts 24#

TD 2947'

Cut and pulled 600' of 8-5/8" casing plugs

#1 1270' to 1210'

#2 65' to surface



After Re-entry

8-5/8" casing 1238' to surface

1) Dress off csg stub & run fluid caliper

2) Bowl over & cement to surface

Drill new 7-7/8" hole 2947' to 4300'

Set 4-1/2 csg @ 3500' & cement to surface

Set 2-3/8" IPC tbg @ 3485'± w/Arrow - Set

1 J-lock Injection Packer

(Injection Into Zone 3500' to 4300')

Estimated Avg. Inj 1000 BWPD

Estimated Avg Inj Pres 200 psi

Estimated Maximum Pres 700 psi

EXXON Federal SWD No. 3

660' FNL & 1980' FWL

Sec. 19, T19S, R33E

Exhibit J

EXXON Federal Salt Water Disposal No. 3

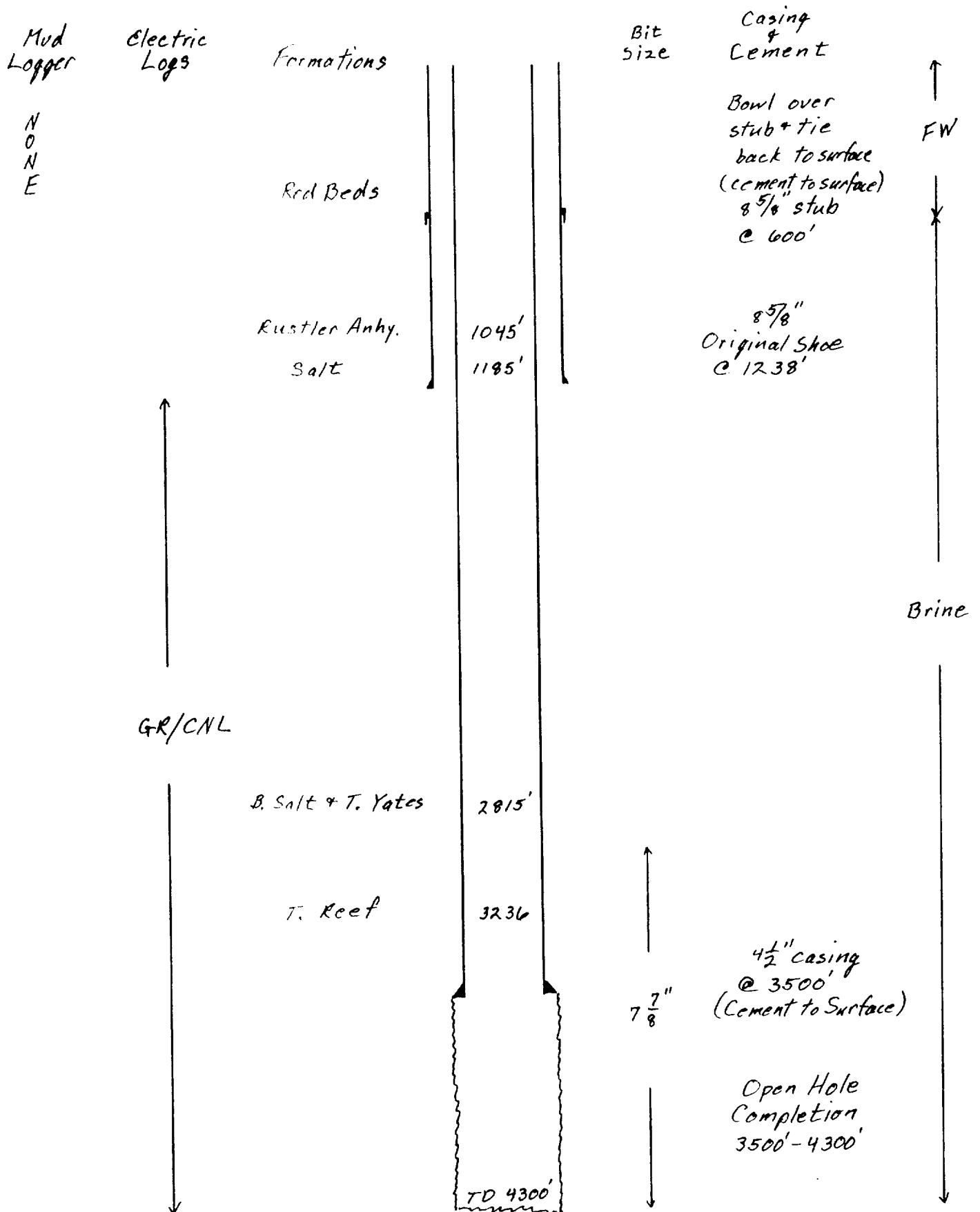


Exhibit K