

TENNECO OIL COMPANY

DRILLING PROCEDURE

W.C.C.

AUG 1 3 13 AM '66

MIDLAND DISTRICT

SOUTHWESTERN DIVISION

LEASE: State V

WELL: No. 2

FIELD: Chaveroo

STATE: New Mexico

LOCATION: 1981.5 FNL & 763.6 FWL
Section 30, T-7-S, R-34-E
Roosevelt County, New Mexico

PROJECTED TD: 4500'

TYPE OF WELL: Oil

EST. RESV.: 4320 G.L.

DRILLING, CASING AND CEMENTING PROGRAM

1. Drill 11" hole to 360'.
2. Run 24#, J-55 8-5/8 casing and cement with Class C / 2% CaCl_2 to circulate. Run guide shoe and insert float with bar centralizers on first two joints.
3. If float holds, release pressure immediately. Install BOP, test casing to 800 psi for 30 minutes and drill out after 8 hours total WOC.
4. Drill 7-7/8" hole to 4500'.
5. Run 10.5#, J-55, ST&C 4-1/2" casing to T.D. Cement with sufficient Class C / 16% gel / 3% salt to reach the base of salt. Tail in with Latex - Class C to cover the producing formation. Use differential fillup equipment with reciprocating scratchers and centralizers to cover productive zone. If float holds, release pressure immediately and set slips. After 8 hrs. WOC run temperature survey and release rig.

CASING DESIGN

2. CONNECTION

In. O.D. :

Interval

Length

Weight

Grade

Thread

Cas. Cost/Ft.

Cum. Cost

3. 8-5/8

Interval

Length

Wt. #/ft.

Interval

Wt.

Grade

Joint

Col.

Design Factor
Top Run

Casing Cost/Ft.

Cum. Cost

0.7

360.

24

J-55

8 rd.

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4. INTERMEDIATE

Interval

Length

Wt. #/ft.

Interval

Wt.

Grade

Joint

Col.

Design Factor
Top Run

Casing Cost/Ft.

Cum. Cost

0

45

10.5

J-55

8 rd.

5. OTHER

Interval

Length

Wt. #/ft.

Interval

Wt.

Grade

Joint

Col.

Design Factor
Top Run

Casing Cost/Ft.

Cum. Cost

WELL LOGGING

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0-360
360-1500
1500-4100

Spud mud of water, gel and lime as needed.
Fresh water maintaining a constant
32-34 sec/1000 cc native mud viscosity.
Saturated brine maintaining a constant
32-34 sec/1000 cc native mud viscosity.

Circulate reserve and add all water at the flow line, returning to steel pits for mud up.
Add paper in water sands interval 1700-1900' to prevent filter cake buildup and hole drag.

4100-T.D.

Low solids salt gel as follows:
Weight 10.4 to 10.7 lb/gal.
Viscosity 38 to 40 sec/1000 cc
Water Loss 10 cc or less
Oil 5-8% No. 2 diesel oil

BLowout PREVENTERS

1. Use Series 900 blowout preventers as per Company specifications.
2. When tripping up, test blowout preventer and manifold to full working pressure with cold water, or as specified by Company representative.
3. Operate blowout preventers at least once each day, or as Company representative requires.
4. An extra set of drill pipe rams will be required on location at all times while drilling or completing.
5. All choke manifolds, lines and valves will be located at the side of and away from substructure.

WELL PIPE MEASUREMENTS

1. Drill pipe will be tallied at all coring, testing, logging and casing points.

FORMATION COSTS

Red Beds	
Anhydrite	1530
Top Salt	1640
Base Salt	2170
Yates	2255

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Seven Rivers	2365
Queen	3055
Grayburg	3495
Slaughter	4088

RECOMMENDATIONS

1. The AMUC Daily Drilling Report will be filled out completely and neatly each 8-hour tour. One clear and legible copy will be mailed daily to Tenneco Oil Company. Mail Company drilling sheets as soon as each sheet is finished with Daily Drilling Report.
2. A daily report sheet and a cost sheet will be furnished by the operator for the well. The contractor's tool puncher will keep these forms current and complete. The daily cost, total cumulative cost and cumulative unit cost will be given daily along with the Tenneco morning report. At the conclusion of the well, the cost forms will be mailed to Tenneco Oil Company, P. O. Box 1031, Midland, Texas.
3. The morning report shall be called to Tenneco's Midland office as soon after 8:00 A.M. each weekday morning as practical. Phone number is MU 3-4621, area code 915.
4. For notifications at other than office hours, call:

LOGGING:

James Eaton - OX 4-7668

B. E. Desadler - MU 4-5390

ENGINEERING:

A. R. Gibson - MU 4-7545

A. W. Lang - MU 23010

Note: Please notify James Eaton in sufficient time for him to be on location by 4000'.

PREPARED BY:

A. R. Gibson

APPROVED BY:

A. R. Gibson
A. R. Gibson

B. E. Desadler by J. E. Eaton
B. E. Desadler

A. W. Lang
A. W. Lang