

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☐ gas ☒ other ☐  
well well

2. NAME OF OPERATOR

Tenneco Oil Company

3. ADDRESS OF OPERATOR

720 S. Colorado Blvd., Denver, CO 80222

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)

AT SURFACE: 1850' FSL, 860' FWL

AT TOP PROD. INTERVAL:

AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

SHOOT OR ACIDIZE ☐

REPAIR WELL ☐

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☒

CHANGE ZONES ☐

ABANDON\* ☐

(other) ☐

5. LEASE

USA-SF-078336

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Florance

9. WELL NO.

114

10. FIELD OR WILDCAT NAME

Pictured Cliffs

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 11; T30N; R9W

12. COUNTY OR PARISH

San Juan

13. STATE

New Mexico

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)

6063' GL

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

1/10/80

We have revised our plans to dual complete the Florance 114 into the Pictured Cliffs and Basin Dakota Formations.

Due to the change in plans, we request a six month extension on this lease.

*Extended until November 9, 1980  
and will automatically expire  
at the end of this period*

Subsurface Safety Valve: Manu. and Type

18. I hereby certify that the foregoing is true and correct

SIGNED

*Carley Matheson*

TITLE Admin. Supervisor DATE 1/14/80

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

NMOCC

DATE

FEB 1980

ACTING DISTRICT ENGINEER

\*See Instructions on Reverse Side

TENNECO OIL COMPANY  
ROCKY MOUNTAIN DIVISION  
PENTHOUSE, 720 SOUTH COLORADO BOULEVARD  
DENVER, COLORADO 80222

DRILLING PROCEDURE

DATE: November 26, 1979

LEASE: Florance

WELL NO.: 114

LOCATION: 1550' FSL, 860' FWL  
Sec. 11, T 30N, R 9W  
San Juan County, New Mexico

FIELD: Pictured Cliffs  
PICTURED CLIFFS  
BASIN, DAKOTA

ELEVATION: 6070' Est. G.L.

TOTAL DEPTH: 7425'

PROJECTED HORIZON: Pictured Cliffs/Dakota

SUBMITTED BY: Doug Keathley ms

APPROVED BY: John W. Blum

DK/ms

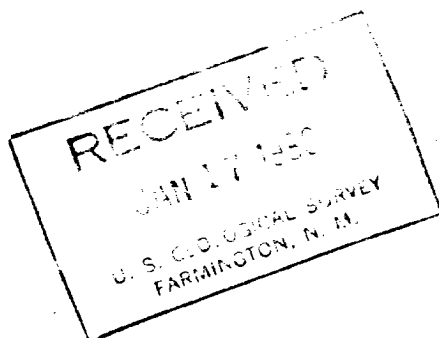
1st Rev.

ESTIMATED FORMATION TOPS

OJO Alamo	1540' (Water)
Pictured Cliffs	2825' (Gas)
\ Lewis Shale	2955' (Drilling Est.)
Cliff House	4446' (Gas)
Menefee	4650' (Gas)
Point Lookout	5070' (Gas)
Mancos	5215'
Gallup	6175' (Oil)
Greenhorn	7095'
Dakota	7200' (Gas)
T.D.	7425'

Surface Formation: Nacimiento

No abnormal temperatures or pressures are expected.



## DRILLING, CASING, AND CEMENT PROGRAM

1. Move in, rig up rotary tools.
  2. Drill a 12 1/4" hole to  $\pm$  250'.
  3. Run 9 5/8", 36#, K-55, ST&C casing to T.D.
  4. Cement with Class B cement with 2% CaCl<sub>2</sub>. Use sufficient volume to circulate cement to surface.
  5. Wait on cement a minimum of 12 hours. Nipple up blowout preventer and manifold valves. Pressure test to 600 psi for 30 minutes. Test pipe and annulus.
  6. Drill an 8 3/4" hole to  $\pm$  3495'. Samples should be taken every 10' starting at 1000' to insure penetrating the Lewis Shale 500'.
  7. Run 7", 23#, K-55, ST&C casing to T.D.
  8. Cement with 50/50 pozmix and tail in with 150 sx Class B cement with 2% CaCl<sub>2</sub>. Use sufficient volume to circulate cement returns to surface.
  9. Wait on cement a minimum of 18 hours. Nipple up to gas drill. Pressure test to 1000 psi for 30 minutes.
  10. Pick up 4 3/4" drill collars and 3 1/2" drill pipe. Drill cement to within 5' of guide shoe. Displace water with nitrogen. Displace nitrogen with gas. Drill 5' of new formation and blow hole dry.
  11. Drill a 6 1/4" hole to T.D. using gas.
  12. Run open hole logs.
  13. Run 4 1/2" casing with casing liner hanger to T.D. Run a minimum of 150' of overlap.
  14. Cement with 50/50 pozmix as a lead cement. Tail in with neat cement to cover casing. Use sufficient volume of cement to circulate cement to liner top.
  15. Remove excess cement. Lay down 3 1/2" drill pipe. Install well head.
- If well is non-productive, P & A as per regulatory agency specifications.

### CASING PROGRAM

Surface:	250' of 9 5/8", 36#, K-55, ST&C casing.
Intermediate:	3495' of 7", 23#, K-55, ST&C casing.
Liner:	3695' of 4 1/2", 10.5#, K-55, ST&C casing.
	425' of 4 1/2", 11.6#, K-55, ST&C casing.

## MUD PROGRAM

0-250' Native solids. Viscosity as needed to clean hole. Sweeps as necessary.  
250-3495' Low solids, chemical gel mud. Sweeps to clean hole.  
3495-7425' Gas.

## EVALUATION

### Cores and DST's:

None.

### Deviation Surveys:

1. Survey surface hole at 100' intervals. Maximum allowable deviation at surface, 1°.
2. From surface to T.D., deviation surveys will be taken every 500', or each trip, whichever is first. This may entail running the TOTCO on wireline. Record each survey on the IADC Drilling Report Sheet. Maximum allowable change in deviation is 1° per 100'.

### Samples:

Samples should be taken every 10' from 2950' to 3500' to insure penetrating the Lewis Shale 600'.

Logs: This will require one set of logs run after T.D. in Dakota and TDT log run after casing is set in Dakota.

Induction/GR - T.D. to surface.

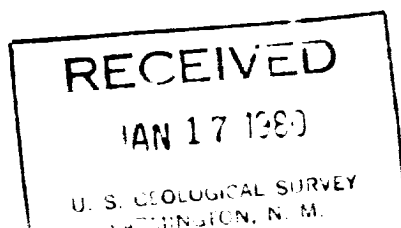
Comp. Density with Gamma Ray & Caliper - T.D. to B/Pt. Lookout.

TDT - 300' below Pictured Cliffs to surface.

## BLOWOUT EQUIPMENT

10" 900-series, double ram hydraulic operated with closing unit and 40 gallon accumulator.

10" 900-series, rotating head, 7" blowline, high pressure manifold with separate valves and discharge lines.



## REPORTS

Drilling reports for the past 24 hours will include depth, footage, time distribution, activity breakdown, mud properties, bit record, bottom hole assembly, daily and cumulative mud costs, plus any other pertinent information, will be called into Tenneco Oil Company, Denver, Colorado, between 7:30 a.m. and 8:00 a.m.

1. 303-758-7130 (office) Don Barnes.  
303-758-7287 (office) Don Barnes' private line, Monday-Friday (before 7:45 a.m.)
2. 303-936-0704 (home) Don Barnes, weekends and holidays.
3. 303-795-0221 (home) John Owen, if Don Barnes is not available.

The yellow sheet of the IADC Report to be filled out completely, the original copy of the drilling time recorder, and copies of any invoices from this well, signed and received for Tenneco Oil Company will be mailed daily to:

TENNECO OIL COMPANY  
ROCKY MOUNTAIN DIVISION  
PENTHOUSE, 720 SOUTH COLORADO BOULEVARD  
DENVER, COLORADO 80222

ATTENTION: Drilling Department

In case of emergency, notify the following:

1. Mr. Don Barnes, Division Drilling Engineer - 303-936-0704
2. Mr. John Owen, Project Drilling Engineer - 303-795-0221
3. Mr. Mike Lacey, Division Production Manager - 303-979-0509