Budget Bureau No. 42-R1425. (Other it structions on reverse elde) UNITED STATES DEPARTMENT OF THE INTERIOR 5. LLASE DESIGNATION AND PURIAL NO. GEOLOGICAL SURVEY SF 080246 G. IF INDIAN, ALLOTTEE OF TEIRE NAME APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK 1a. TYPE OF WORK 7. UNIT AGBEEMENT NAME PLUG BACK 🗌 DEEPEN [ DRILL 🛛 b. TIPE OF WELL MELTIPLE ZONE E. FARM OR LEASE NAME BINGLE WELL WELL X OTHER Florance 2. NAME OF OPERATOR 9. WELL NO. Tenneco Oil Company 124 3. ADDRESS OF OPERATOR 10. FIELD AND POOL, OR WILDCAT 720 So. Colorado Blvd., Denver, Colorado 80222 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*) Basin Dakota 11. SEC., T., B., M., OE BLK.
AND SURVEY OR AREA 635' FNL, 2020' FWL At proposed prod. zone Sec. 27, T29N, R9W 12. COUNTY OR PARISH | 13. STATE 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE. 3.6 miles East South East of Blanco, New Mexico San Juan N.M. 16. NO. OF ACRES IN LEASE 17. NO. OF ACRES ASSIGNED 15. DISTANCE FROM PROPUSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to degreet drig, unit line, if any) TO THIS WELL 320.00 944.77 18. DISTANCE FROM PROPOSED LOCATIONS
TO NEAREST WELL, DHILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT. 20. RUTARY OR CABLE TOOLS 19. PROPOSED DEPTH 6610 Rotary 21. ELEVATIONS (Show whether DF, RT, GR, etc.) 22. APPROX. DATE WORK WILL START ASAP 5607 GR 23. PROPOSED CASING AND CEMENTING PROGRAM WEIGHT PER FOOT SETTING DEPTH QUANTITY OF CEMENT SIZE OF CASING SIZE OF HOLE ±200' 9 5/8" new 150 SX Class B+2% CaCl. 12 3/4" 36# K55 circulate to surface 7" new 23# K55 ±4700 8 3/4" ±6610 50/50 pozmix, 2% Gel 4 1/2" new 10.5#-11.6# 6 1/4" tailed by 100 SX Class B Circulate to surface See attached. No abnormal temperatures, pressures or geologic hazards are expec The gas is dedicated. RECEIVED 141 30 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. 24 Staff Production Analyst August 19, 1980 DATE \_ SIGNED &

(This space for Federal or State office use)

TERMIT NO. APPROVAL DATE

APPROVED BY:
CONDITIONS OF APPROVAL, IF ANY:
AREA TITLE

DATE

APPROVED BY:
CONDITIONS OF APPROVAL, IF ANY:
AREA TO AR

- \*See Instructions On Reverse Side

# NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

All distances must be from the outer boundaries of the Section. Well No. Speciator FLORENCE 12h TENNECO OIL COMPANY Range Township Section Juit Letter 29N 9W San Juan 27 ctual Footage Location of Wells West North 2020 line and feet from the feet from the Dedicated Acreages Producing Formation Pool Sround Level Elevi 320/320 Basin Dakota/Blanco Mesa Verde **Дстө**в 5608 Dakota/Mesa Verde 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling. etc? If answer is "yes," type of consolidation \_\_\_ ΠNο Yes If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)\_ No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Nome M. L. Freeman Position Staff Production Analyst Company Tenneco Oil Company August 19, 1980 I hereby certify that the well location 27 Tenneco 3 SEP Thown on this plat was plotted from field Conoco OIL CON. notes of octual surveys made by me or SF080246 Conder my supervision, and that the same 320.00 ac DIST Is true and correct to the best of my fowledge and belief. Date Surveyed ED LALD AUG 2 Scale: 1"=1320' U. S. GEOLOGICAL SURVEY FARMINGTON, N. M.

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

# DRILLING PROCEDURE

DATE:

November 19, 1979

LEASE:

Florance

WELL NO.: 124

LOCATION:

635 FNL, 2020 FWL

FIELD: Basin Dakota

Sec. 27, T 29N, R 9W San Juan County, New Mexico

ELEVATION: 5620' Est. G.L. - 5731'Est. K.B.

6610' TOTAL DEPTH:

PROJECTED HORIZON: Dakota/Mesaverde

ADDROVED BY: John 20. China

DK/ms

1st Rev.

## ESTIMATED FORMATION TOPS

1015	(Water)
2080	(Gas)
2130	
3735	(Gas)
3790	(Gas)
4310	(Gas)
4494	
5505	(0i1)
6250	
6358	(Gas)
6610	
	2080 2130 3735 3790 4310 4494 5505 6250 6358

Surface Formation: Nacimiento

No abnormal temperatures or pressures are expected.

#### DIVITETING, CHOTHO, WHO CENTER LUDWALL

- 1. MIRURT.
- 2. Drill a 12 3/4" hole to + 200'.
- 3. RU and run 9 5/8", 36#, K-55, ST&C casing.
- 4. Cement with 150 sx Class B ÷ 2% CaCl<sub>2</sub>.
- 5. WOC a minimum of 12 hours. Nipple up BOP's, choke manifold, and kill line. Pressure test rams, lines and casing to 600 psi for 30 minutes. Record test on IADC Drilling Report.
- 6. Drill an 8 3/4" hole 150-200' into the Mancos Shale. Treat mud system for possible lost circulation before penetrating the Mesa Verde.
- 7. RU and run 7", 23#, K-55, ST&C casing to  $4700^{\circ}\pm$
- 8. Cement in two stages with sufficient volume to circulate cement to surface. Use 50/50 pozmix, 4% gel tailed by 150 sx of Class B ÷ 2% CaCl<sub>2</sub>. Precede cement with a chemical preflush. Place DV at top of MV and use cement baskets in first stage.
- 9. WOC a minimum of 18 hours. Pick up 3 1/2" drill string and drill to within 5' of shoe. Displace water with N<sub>2</sub> and soap. Drill shoe and 5' of formation. Blow hole with gas until dusting.
- 10. Drill a 6 1/4" hole to T.D.
- 11. Log open hole as directed by G.E. Department.
- 12. RU and run 4 1/2", 10.5=/11.6=, K-55, LT&C liner to T.D. leaving 150' of overlap.
- 13. Set liner and cement with 50/50 pozmix, 2% gel tailed by 100 sx Class 5. Use a chemical preflush ahead of cement.
- 14. Reverse out excess cement, LDDP and install X-mas tree.
- 15. MORT.
- 16. If well is non-productive, plug and abandon as per regulatory agency specification.

#### CASING PROGRAM

0-200 9 5/8", 36#, K-55 ST&C

0-4700 7", 23#, K-55, ST&C

4550-6610 (2060') 4 1/2", 10.5#, K-55, LT&C

#### MUD PROGRAM

Native solids. Have sufficient viscosity to clean hole and 0-200

run casing.

200-4700 Benex and water. Have sufficient viscosity to run casing.

Pretreat for lost circulation in Mesa Verde. Gas. 4550-6610

## EVALUATION

#### Cores and DST's:

No cores or DST's are anticipated.

## Deviation Surveys:

- 1. Survey surface every  $100^{\circ}$ . Maximum allowable deviation at surface is  $1^{\circ}$ .
- 2. From surface to T.D., surveys must be taken every 500', or each trip, whichever is first. This may entail running the TOTCO on wireline. Record surveys on IADC Drilling Report. Maximum allowable change is 10 per 100'.

## Samples:

Logs: Two logging runs.

- 1. GR/INC: T.D. to surface; Comp Neutron Density through MV only.
- 2. GR/IND: T.D. to intermediate; Comp Density with GR, T.D. to B/Pt Lookout.

## BLOWOUT EQUIPMENT

10", 3000 psi, double ram hydraulic operated with closing unit and 40 gallon accumulator.

10", 150 psi, rotating head and 7" bloose line.

#### 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.

- 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.

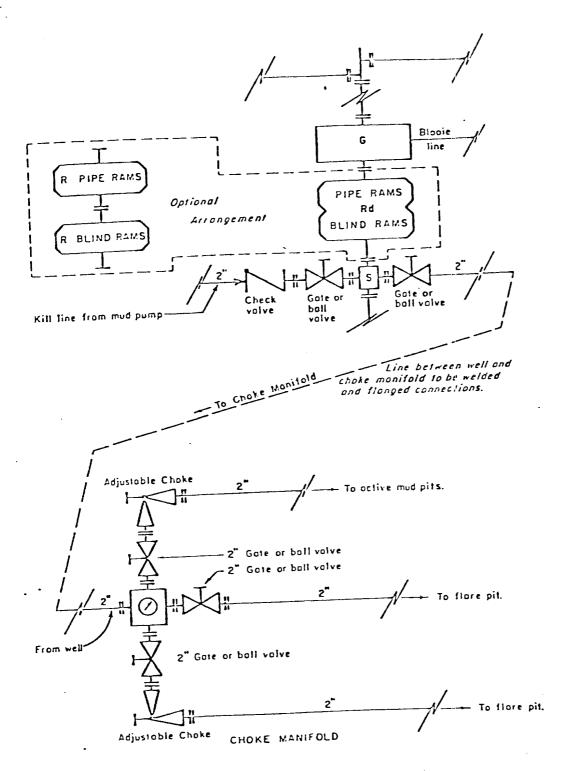
The yellow sheet of the IADC Report to be filled out completely, the original copy of the drilling time recorder, and copies of any invoices from this well, signed and received for Tenneco Oil Company will be mailed daily to:

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



All equipment to be 3,000 psi working pressure except as noted.

- Double ram type preventer with two sets of roms. Rđ
- Single rom type preventer with one set of roms.
- Drilling spool with side outlet connections for choke and kill lines.
- Rotating head 150 psi working pressure minimum

# ARRANGEMENT C

TENNECO OIL COMPANY ROCKY MOUNTAIN DIVISION

REQUIRED MINIMUM BLOWOUT PREVENTER AN CHOKE MANIFOLD

10-26-79 J. MAGILL

- 1. Existing Road Please refer to Map No. 1 which shows the existing roads. New roads which will be required have been marked on this map. All existing and new roads will be properly maintained during the duration of this project.
- 2. Planned Access Roads Please refer to Map No. 1. The grade of the access roads will be consistent with that of the local terrain. The road surface will not exceed twenty feet (20') in width. Upon completion of the project, the access road will be adequately drained to control soil erosion. Drainage facilities may include ditches, water bars, culverts or any other measure deemed necessary by trained Company personnel to insure proper drainage. Gates and/or cattleguards will be installed if necessary.
- 3. Location of Existing Wells Please refer to Map No. 2.
- 4. Location of Tank Batteries, Production Facilities, and Production Gathering and
  Service Lines Please refer to Maps No. 1 and No. 2. Map No. 2 shows the
  existing roads and new proposed access roads. All known
  production facilities are shown on these two maps.
- Location and Type of Water Supply Water for the proposed project will be obtained from a private source.
- 6. Source of Construction Materials No additional materials will be required to build either the access road or the proposed location.
- 7. Methods of Handling Waste Materials All garbage and trash materials will be put into a burn pit shown on the attached Location Plat No. 1. When clean-up operations are begun on the proposed project, the burn pit with its refuse will be buried to a depth of at lease three feet (3'). A latrine, the location of which is also shown on Plat No. 1. will be provided for human waste. If large amounts of liquids are I left in the reserve pit after completion of the project, the pit will be fenced until the liquids have had adequate time to dry. The location clean-up will not take place until such time as the reserve pit can be properly covered over to prevent run-off from carrying any of these materials into the watershed. No earthen pit will be located on natural drainage; all earthen pits will be so constructed as to prevent leakage from occurring.

- 8. Ancillary Facilities No camps or airstrips will be associated with this project.
- 9. Wellsite Layout Please refer to the attached Plat No. 1.
- 10. Plans for Restoration of the Surface After completion of the proposed project
  the location will be cleaned and leveled. The location will be
  left in such a condition that will enable reseeding
  operations to be carried out. Seed mixture as designated
  by the responsible government agency will be used. The
  reseeding operation will be performed during the time
  period set forth by the regulatory body. The location
  production equipment will be painted as designated by the
  responsible government agency.
- 11. Other Information The proposed site is located in the flood plain of Largo Wash. The site is on the north side of the dry wash bed with the channel on the south side. The soil is sandy, sandy silt. The principal vegetation is native grasses.
- 12. Operator's Representative -

#### SEE DRILLING PROGNOSIS

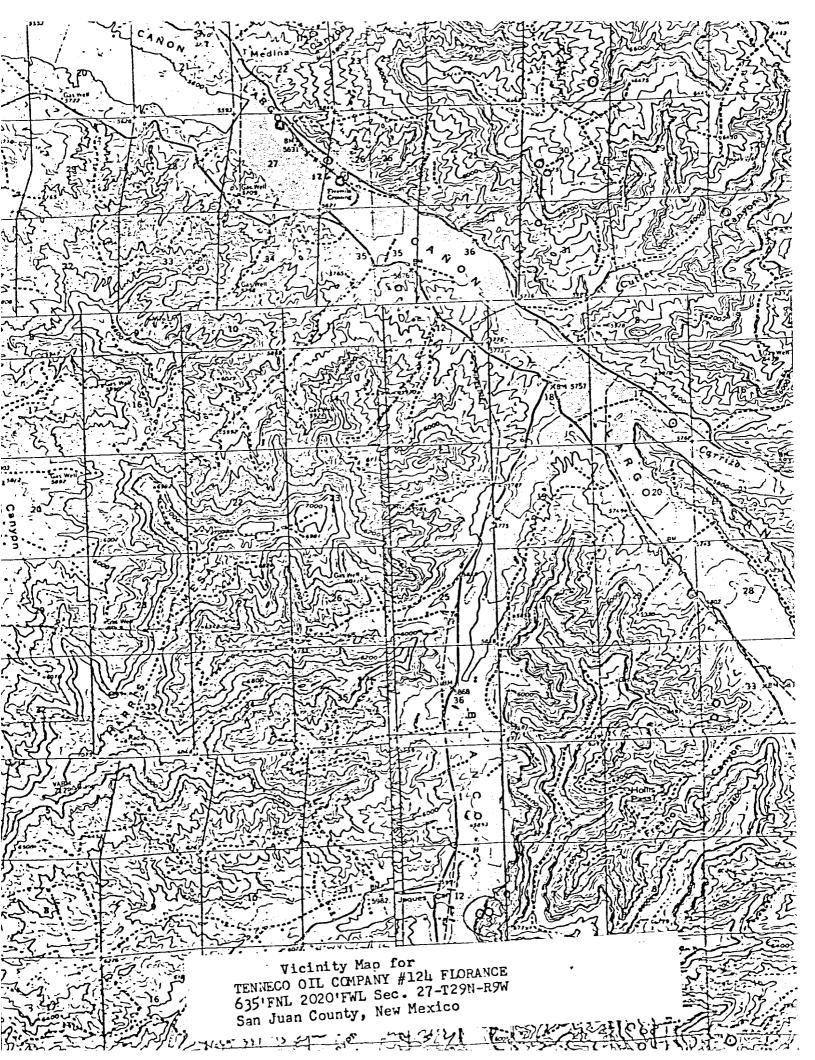
13. Certification -

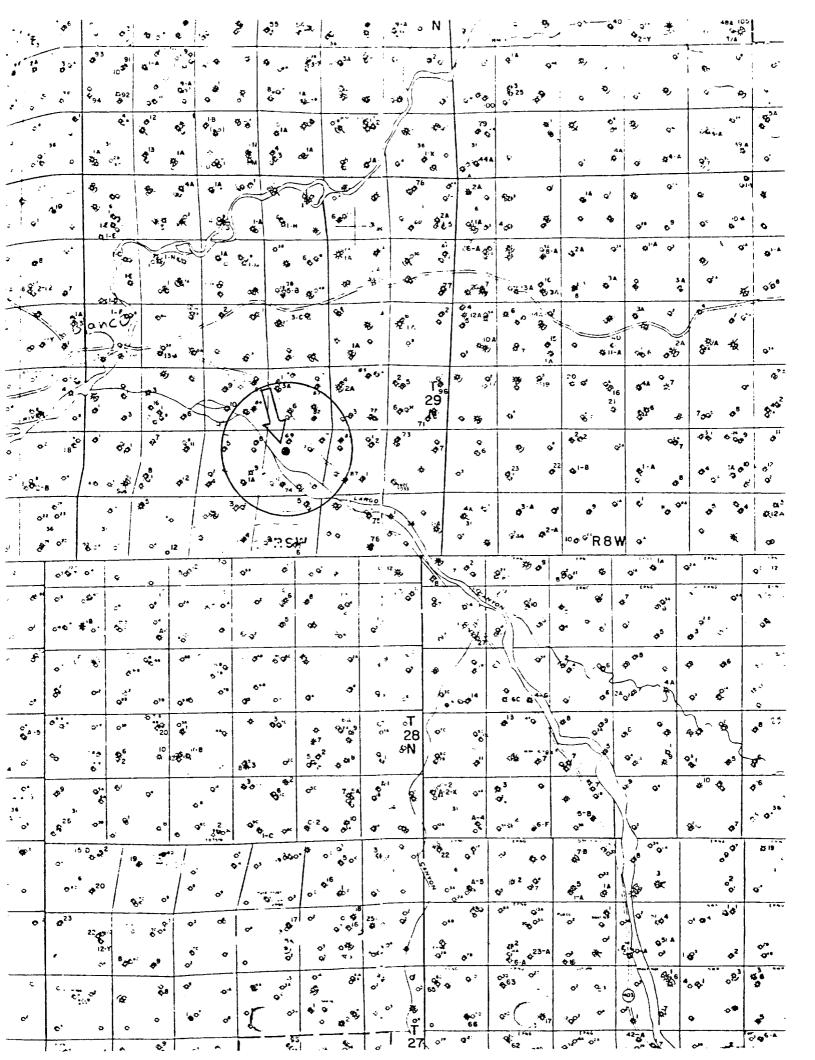
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements mad in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Tenneco Oil Company Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

L. Freeman

Staff Production Analyst

LF/gh





DRILLING WELL SITE LAYOUT HORAKE 124 SEC 27, T29N, K9W DATE Due to LEVEL Toposiaphy Minimal
DIRT WORK REQUIRED. It Well is A
Producer Construct A dike AROUND TANK TO
CONTAIN POSSIBLE SPILL S BUNK HOUSE RESERVE PITS PIT DRILLING MUD RIG DEVELL-FLARE PIT PIPE RACKS 200 iles Accoss Zond BURN PARKING PIT AREA