SUBMIT IN TRIPLICATE® Form approved. Budget Bureau No. 42-R1425. (May 1963) (Other instructions on reverse side) UNITED STATES 23491 DEPARTMENT OF THE INTERIOR 5. LEASE DESIGNATION AND SERIAL NO. GEOLOGICAL SURVEY USA-SF-078502
IF INDIAN, ALLOTTEE OR TRIBE NAME APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK DRILL 🗵 DEEPEN 🗌 7. UNIT AGREEMENT NAME PLUG BACK 🗌 WELL WELL X MULTIPLE 20NE SINGLE ZONE S. FARM OR LEASE NAME OTHER 2. NAME OF OPERATOR Vanderwart TENNECO OIL COMPANY 3. ADDRESS OF OPERATOR 2 720 S. Colorado Blvd., Denver, Colorado 80222

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

At surface 10. FIELD AND POOL, OR WILDCAT Basin Dakota 1620' FSL, 1650'FEL 11. SEC., T., B., M., OR BLK. AND SURVEY OR AREA At proposed prod. zone Sec. 24, T29N, R8W 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE. 12. COUNTY OR PARISH | 13. STATE See Point 1B, Surface Use Plan
DISTANCE FROM PROPOSED*
LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to Dearest drig. unit line, if any)
DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT. San Juan New Mexico NO. OF ACRES ASSIGNED TO THIS WELL 16. NO. OF ACRES IN LEASE 20. ROTARY OR CABLE TOOLS 19. PROPOSED DEPTH 7905 ROTARY | 22. APPROX. DATE WORK WILL START* 21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6679 G.L. August 15, 1979 23. PROPOSED CASING AND CEMENTING PROGRAM --SIZE OF HOLE
13 3/4 " SIZE OF CASING WEIGHT PER FOOT SETTING DEPTH QUANTITY OF CEMENT 9 5/8" 36# 250+ See 4 below 7" 8 3/4" 23# 3720+ See 4 below 10.5#, 11.6# 614" 45" 7905 See 4 below (See 4 below) 1. The geological name of the surface formation if Tertiary San Jose. 2&3. ESTIMATED FORMATION TOPS Pictured Cliffs 3305 Lewis Shale 3405 Cliffhouse 4965 Mancos 5695 Gallup 6632 Greenhorn 7525 Dakota A 7635 TOTAL DEPTH Drill 13 3/4" hole to 250+ . Run 9 5/8" casing. Cement with sufficient volume to circulate cement to surface. Drill an 8 3/4" hole to 3750. Run 7", 23#, K-55 ST&C casing to 3750, cementing with sufficient volume to circulate cement to surface. Drill a 6 1/4" hole using gas as circulating fluid to 7905. Run 42", 10.5#, K-55 ST&C casing (3400') and $4\frac{1}{2}$ ", 11.6#, K-55 ST&C casing (905'). to total depth. Cement with sufficient volume to circulate cement to liner top. BLOWOUT PREVENTORS: Hydraulic, double ram, 10". One set of rams will be provided for each size drill pipe in the hole. One set of blind rams at all times. Fill line will be 2". Kill line will be 2', choke relief line will be 2' with variable choke. BOP's will be installed, tested and in working order before drilling below surface casing and shall be maintained ready for use until drilling operations are completed. BOP's, drills and test will be recorded in the IADC Drilling Report. They shall be checked every 24 hours. All rig equipment will be tested to above BOE ratings. 0-250 Native solids, Sufficient viscosity to clean hole and run casing. 250-3750 Low solids. Gel chemical 3750- TD Gas AUXILIARY EQUIPMENT A. Kelly cock will be in use at all times. b. Stabbing valve to fil drill pipe will be present on floor at all times. Mud monitoring will be visual, no abnormal pressures are anticipated in this area. C. đ. Floats at bits. e. Drill string safety valve(s) to fit all pipe in the drill string will be maintained on the rig floor while drilling operations are in progress. f. Rotating head will be used while drilling with gas. No cores or DST's anticipated. 10' samples from 3000-3500. GR/Induction from TD to intermediate casing. GR/FDC/caliper from TD to base of Mesa Verde. No abnormal pressures or temperatures are anticipated. See point #5 for blowout prevention equipment. 10. The drilling of this well will take approximately 10 days. The gas is contracted. IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical preventer program, if any. Division Production Manager 4-27-79 BIGNED TITLE

PERMIT NO.

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102 Supersedes C-128 Effective 1-1-65

B KEBB

3950

All distances must be from the outer boundaries of the Section. Operator Lease Well No. TENNECO OIL COMPANY VANDERWART B 2 Unit Letter Section Township Range County 24 29N 8W San Juan Actual Footage Location of Well: 1620 feet from the South 1650 line and East feet from the line Ground Level Elev. Producing Formation Dedicated Acreage: 6679 Dakota Basin Dakota 320 Acres 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? Yes v No If answer is "yes," type of consolidation _ 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 Commis-CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Environmental Coordinator Tenneco Oil Company Date Sec. April 11, 1979 CONOCO 078502 USA SF I hereby certify that the well location under my supervision, and that the same is true and correct to the best of my knowledge and belief. Fred\B Certificate

330

660

.90

1320

1650

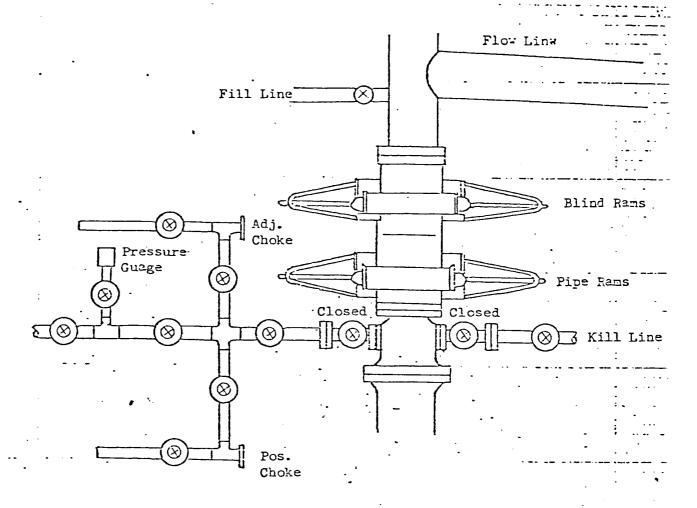
1980

2310

25 40

2000

1000



All valves 2"

All BCPs, flanges, spools, valves, & lines must be series 900 or 3000 psi working press.

Choke manifold must be at ground level and extended out from under substructure.

TENNECO OIL COMPANY

REQUIRED MINIMUM BLOWOUT PREVENTOR

ROOKUP

Denver, Colorado

VANDERWART "B" 2

1. Existing Roads

- A. Proposed Well Site Location: The proposed well site location was surveyed and staked by a registered land surveyor and is located 1620' FSL and 1650" FEL, Sec. 24, T29N, R8W, San Juan County, New Mexico. (See Surveyor's Plat, Exhibit 1.)
- B. Planned Access Route: The planned access route begins at Blanco, New Mexico and goes east on Hiway 17 for approximately 9.5 miles at the junction of a dirt road which forks to the right and heads south. Turn on this road and continue on this road for (See page 1-A attached hereto and made a part hereof.)

C. Access Road Labelled:

Color Code: Red - Improved Surface Blue - New Access Road

- D. Not applicable the proposed well is a development well.
- E. The proposed well is a development well. See ExhibitII for existing roads within a one mile radius.
- F. Existing Road Maintenance or Improvement Plan:
 The existing roads will require minimal maintenance.

2. Planned Access Roads

(All roads are existing roads.)

- A. Width: The average width of the road is twenty feet.
- B. Maximum Grades: Maximum Grades will be 6%.
- C. Turnouts: There are no turnouts planned as sight distance is sufficient.
- D. Drainage Design:
 The road is center crowned to allow drainage. The road is flat primarily.
- E. Culverts Use Major Cuts and Fills: No culverts, major cuts or fills will be needed.
- F. Surfacing Material: Native soil has been wetted, bladed and compacted to make the road surface, which is existing.

VANDERWART "B" 2 Page 1-A

1. EXISTING ROADS

B. PLANNED ACCESS ROUTE: approximately 5 miles. At the junction of another dirt road which turns south turn on this dirt road and proceed 3/4 mile to the fork in the road, take the right fork 1/8 mile and turn to the right on a dirt road which goes to the NW. Go up this road approximately 1/4 mile, this will begin our new road to the proposed well site location. (See Exhibit II.)

Planned Access Roads (Cont'd)

- G. Gates, Cattleguards, Fence Cuts: No gates, cattleguards or fences will be needed.
- New Roads Centerlined Flagged: H. Existing Roads.

Location of Existing Wells 3.

I.

The proposed well is a development well. Exhibit ^{III}shows existing wells within a one mile radius.

Water Wells: Α. None Abandoned Wells: В. С. Temporarily Abandoned Wells: Disposal Wells: D. Drilling Wells: E. Exhibit III Producing Wells: See Exhibit F. III G. Shut-In Wells: None Н. Injection Wells: Monitoring or Observation Wells: None.

4. Location of Existing and/or Proposed Facilities

Existing facilities within one mile owned or controlled Α. by Lessee/Operator:

> Tank batteries -N/A Exhibit III Production facilities -N/A Oil Gathering Lines -N/A Gas Gathering Lines -N/A Injection Lines -/ N/A Disposal Lines -

New facilities in the event of production: В.

(1) New facilities will be within the dimensions of the drill pad.

(2) Dimensions are shown on Exhibit IV.

Construction Materials/Methods: (3) Construction materials will be native to the site. Facilities will consist of a well pad.

Protection of Wildlife/Livestock: (4) Facilities will be fenced ad needed.

4. Location of Existing and/or Proposed Facilities (Cont'd)

- B. New facilities in the event of production: (cont'd)
 - (5) New facilities will consist of a well head, tank and Production unit.
- C. Rehabilitation of Disturbed Areas:
 Following the completion of construction, those areas
 required for continued production will be graded to provide drainage and minimize erosion. Those areas unnecessary
 for use will be graded to blend with surrounding topography
 per BLM recommendations.

5. Location and Type of Water Supply

- A. Location and type of water supply:
 Water will be hauled from a private source.
- B. Water Transportation System: Water trucks will be used.
- C. Water wells:

6. Source of Construction Materials

- A. Materials:
 Construction materials will consist of soil native to the site. Any topsoil, if present, will be stripped and stockpiled as needed.
- B. Land Ownership; The planned site and access road is on federal land administered by the Bureau of Land Management.
- C. Materials Foreign to the Site: N/A.
- D. Access Roads: No additional roads will be required.

7. Methods for Handling Waste Disposal

- A. Cuttings:
 Cuttings will be contained in the reserve pit.
- B. Drilling Fluids: Drilling fluids will be retained in the reserve pit.
- C. Produced Fluids:
 Produced fluids, including produced water will be collected in the reserve pit. Any small amount of hydrocarbon that may be produced during testing will be retained in the reserve pit. Prior to clean up operations, the hydrocarbon material will be skimmed.

Methods for Handling Waste Disposal (Cont'd)

- D. Sewage:
 Sanitary facilities for sewage disposal will consist of at least one pit toilet, during the driller operations.
 The pit will be backfilled immediately following completion of the drilling operation.
- E. Garbage:
 There probably will not be much putriscible garbage to dispose of. However, it will be disposed of along with the refuse in a constructed burn pit, which will be fenced. The small amount of refuse will be burned and the pit will be covered with a minimum 36 inch cover upon completion.
- F. Clean-Up of Well Site:
 Upon the release of the drilling rig, the surface of the drilling pad will be prepared to accommodate a completion rig, if testing indicates potential productive zones. In either case, the "mouse hole" and "rat hole" will be covered to eliminate a potential hazard to livestock. The reserve pit will be fenced to prevent entry of livestock until the pit is backfilled. Reasonable clean up will be performed prior to final restoration of the site.

8. Ancillary Facilities

None required.

Well Site Layout

- A. Exhibit IV.
- B. Location of pits, etc. See Exhibit IV.
- C. Rig orientation etc. See Exhibit IV.
- D. Lining of pits:
 Pits will not be lined. They will be covered with a fine
 mesh netting, if necessary, for the protection of wildlife
 if fluids are found to be toxic.

10. Plans for Restoration of Surface

A. Reserve pit clean up:
The pit will be fenced prior to rig release and shall be maintained until clean up. Prior to backfilling any hydrocarbon material on the pit surface will be removed. The fluids and solids contained in the pit shall be backfilled with soil excavated from the site and with soil adjacent to the reserve pit. The restored surface of the reserve pit will be contoured as needed to minimize erosion. The reserve pit area will be seeded per BLM recommendations during the appropriate season following final restoration of the site.

10. Plans for Restoration of Surface (Cont'd)

- B. Restoration Plans Production Developed:
 The reserve pit will be backfilled and restored as described under I.tem A. In addition, those disturbed areas not required for production will be graded to blend with the surrounding topography, and seeded, per BLM recommendations. The portion of the drill pad required for production and turning areas will be graded to minimize erosion and provide access to production facilities under inclement conditions. Following depletion and abandonment of the site, restoration procedures will be those under Item C. below.
- C. Restoration Plan No Production Developed:
 The reserve pit will be restored as described above. With
 no production developed, the entire surface disturbed by
 construction of the drilling pad will be restored. The site
 will be contoured to blend with the surrounding topography.
 The site will be seeded according to BLM recommendations. If
 the new access road is not required for other development
 plans, it will be obliterated and restored and seeded per
 BLM recommendations.
- D. Rehabilitation Time Table:
 Upon completion of operations the intial clean up of the well site will be performed. Final restoration of the site will be performed as soon as possible according to procedural guidelines published by the USGS and BLM. Seeding of the disturbed areas which are no longer required will be performed during the appropriate season, following final restoration.

11. Other Information

- A. Surface Description: Surface Description of the proposed well site location is flat with cedar trees throughout.
- B. Surface Use Activities:
 The surface is federally owned and managed by the BLM. The predominant surface use is mineral exploration and production.
- C. Proximity of Water, Dwellings and Historical Sites:
 - 1. Water:
 There are no reservoirs or streams in the immediate area.
 - Occupied Dwellings: There are no occupied dwellings or buildings in the area.
 - 3. Sites:
 An archeological reconnissance has been performed for this location and clearance has been granted.

12. Operator's Field Representative

Donald S. Barnes
Division Drilling Engineer
Tenneco Oil Company
720 South Colorado Blvd.
Penthouse
Denver, CO 80222
(303) 758-7130 Ext. 212

13. Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions as they actually exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the proposed work performed by Tenneco Oil Company and its contractors and subcontractos will conform to this plan.

Date: 4-27-79 /m /m

J. M. Lacey Division Production Manager

