SUBMIT IN TRIPLICATE.

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

645-24332

TATE

UNITED STATES

OPEN THE INTERIOR

Other interior rever

LEASE DESIGNATION AND SERIAL NO. GEOLOGICAL SURVEY SF 080101 6. IF INDIAN, ALLOTTEE OR TRIBE NAME APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK 1a. TYPE OF WORK 7. UNIT AGREEMENT NAME DRILL &X DEEPEN PLUG BACK b. TYPE OF WELL MULTIPLE ZONE S. FARM OR LEASE NAME WELL X WELL X OTHER 2. NAME OF OPERATOR Tapp Com 9. WELL NO. Tenneco Oil Company - 5 3. ADDRESS OF OPERATOR 720 S. ColoradoBlvd., Denver, Colorado 80222

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface 10. FIELD AND POOL, OR WILDCAT Basin Dakota 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 990 FSL, 990 FEL At proposed prod. zone Sec. 17, T28N, R8W 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE 12. COUNTY OR PARISH | 13. STATE 10 miles South of Navajo Dam P.O. San Juan New Mexic 10. DISTANCE FROM PROPUSED* 16. NO. OF ACRES IN LEASE 17. NO. OF ACRES ASSIGNED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig, unit line, if any) TO THIS WELL 160 4 320.00 20. ROTARY OR CABLE TOOLS 18. DISTANCE FROM PROPOSED LOCATION* 19. PROPOSED DEPTH TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. Rotary 5 6670 22. APPROX. DATE WORK WILL START* 21. ELEVATIONS (Show whether DF, RT, GR, etc.) ASĀP 23. PROPOSED CASING AND CEMENTING PROGRAM · . . WEIGHT PER FOOT SETTING DEPTH QUANTITY OF CEMENT SIZE OF CASING BIZE OF HOLE ± 200' 150 sx class B CIRCULATE 12날" 36# K-55 9 5/8" new ±3800' Circulate to surface: 7<u>" new</u> 8 3/4" 23# K-55 ± 6670' Circulate to liner hanger 64" 4⅓" new 10.5# K-55 SEE ATTACHED No abnormal temperatures, pressures, or geologic hazards are experted. THE GAS IS DEDICATED APPROVED. RECEIVED AS AMENDED MAR 1 4 1980 MAY 2 1 1980 U. S. GEOLOGICAL SURVEY JAMES F. SIMS : FARMINGTON, N. M. DISTRICT ENGINEER PROFOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive IN ABOVE SPACE DESCRIBE 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. March.7, 1980 Staff Production Analyst DATE . SIGNED . TITLE (This space for Federal or State office use) APPROVAL DATE PERMIT NO.

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO

P. O. HOX 2088

Form C-102

SANTA FE, NEW MEXICO 87501 HURGY HIS MINURALS DIFFARTMENT All distances must be from the cuter houndaries of the Section Well No. J crator 5 TAPP COM TENNECO OIL COMPANY County Range Section Township 8w San Juan 28N Actual Footage Location of Well: 990 990 East South feet from the line line and feet from the Dedicated Acreage: Ground Level Elev. Producting Formation 320.00 5751 Acres <u>Basin Dakota</u> Dakota 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? Communizization If answer is "yes," type of consolidation ___ No 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 SF 078499 I hereby certify that the information con-RECEIVED Tenneco 1/2 tained herein is true and complete to the Conoco 1/2 best of my knowledge and belief. MAR 1 4 1980 160.00 actes GEOLOGICAL SURVEY Name M. Lee Freeman FARMINGTON, N. M. Position Staff Production Analyst Company Tenneco Oil Company March 7, 1980 Sec. 17 I hereby certify that the well location shown on this plat was plotted from field SF-080101 notes of actual surveys made by me or under my supervision, and that the same Crown Central Pet is true and correct to the best of my Corp - 100% knowledge and belief. 160.00 actes 9901 Date Surveyed December 7, 1979 Registered Professional Engineer Fred B& Ker 3950

2000

2310

1960

1320 1650

26 40

1500

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

DRILLING PROCEDURE

DATE: December 6, 1979

WELL NO.: 5 LEASE: Tapp Com

FIELD: Basin Dakota LOCATION:

990' FSL, 990' FEL Sec. 17, T 28N, R 8W San Juan County, New Mexico

ELEVATION: 5800' Est. G.L.

TOTAL DEPTH: 6670'

PROJECTED HORIZON: Dakota

APPROVED BY: Dale Kardesh DATE: 12/7/79

APPROVED BY: Dame

DJK/ms

CC: Administration

Well file Field File

ESTIMATED FORMATION TOPS

OJO Alamo	1150'	Water
Pictured cliffs	3130'	Gas
Lewis Shale	3280'	
Cliffhouse	3840 '	Gas
Menefee	3970'	Gas
Point Lookout	4440'	Gas
Mancos	4620'	
Gallup	5610'	GAS
Greenhorn	6360'	
Dakota A	6480'	Gas
T.D.	6670'	

DRILLING, CASING, AND CEMENT PROGRAM

- 1. MIRURT.
- 2. Drill a 12 1/4" hole to \pm 200'.
- 3. RU and run 9 5/8", 36#, K-55, ST&C casing.
- 4. Cement with 150 sx Class "B" + 2% CaCl₂.
- 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 + 500' into the Lewis Shale to 3800'. 3800
- 7. RU and run 7", 23#, K-55, ST&C casing to 3800'. -3800
- Cement with sufficient volume to circulate cement to surface using 50/50 pozmix, 4% gel tailed by 150 sx of Class "B" + 2% CaCl₂. Precede cement with a chemical preflush.
- WOC a minimum of 18 hours. Pick up 3 1/2" drill string and drill to within 5' of shoe. Displace water with N₂ and soap. Drill shoe and 5' of formation.
- 10. Drill a 6 1/4" hole to T.D. 6670'
- 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 "B". Use a chemical preflush ahead of cement.
- 14. Reverse out excess cement, LDDP and install X-mas tree.
- 15. If well in non-productive, plug and abandon as per state requirements.
- 16. MORT.

CASING PROGRAM

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

0-3800' 7", 23#, K-55, ST&C

3650'-6670' (3020') 4 1/2", 10.5#, K-55, LT&C

MUD PROGRAM

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

200-3800 Benex and water. Have sufficient viscosity to run casing.

3800-T.D. Gas.

EVALUATION

Cores and DST's:

No cores or DST's are anticipated.

Deviation Surveys:

- 1. Survey surface ever 100'. Maximum allowable deviation at surface is 1° .
- 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:

10' samples 3200'-3800'. Insure we have penetrated Lewis Shale 500'.

Logs:

GR/IND: T.D. to Intermediate.

GR/FDC/CAL: T.D. to base Mesaverde

BLOWOUT EQUIPMENT

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

10" series-900 rotating head with 150 psi working pressure minimum, and 7" blooie 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.

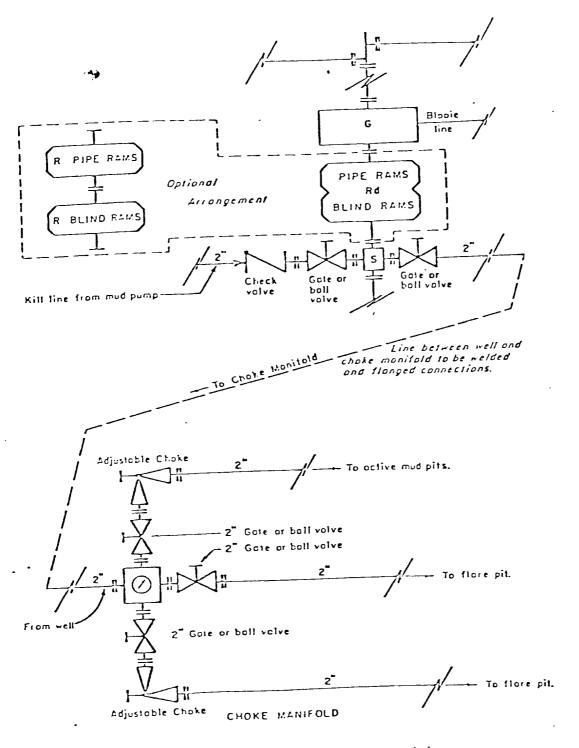
The yellow sheet of the IADC Report to be filled out completely, the original copy of the drilling time recorder, and copies of any invoices from this well, signed and received for Tenneco Oil Company will be mailed daily to:

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 rams. Rd
- 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 G

ARRANGEMENT C

TENNECO OIL COMPANY ROCKY MOUNTAIN DIVISION REQUIRED MINIMUM BLOWOUT PREVENTER AN CHOKE MANIFOLD

J. MAGILL 10-26-79

- 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.
- 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.
 - 5. 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.
 - Methods of Handling Waste Materials All garbage and trash materials will be 7. 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 J 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.

- Ancillary Facilities No camps or airstrips will be associated with this project.
- 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 at the junction of Canyon Largo and Carrizo Creek. The topography is level with sandy soil. The surface and minerals are held in public domain.
- 12. Operator's Representative -

SEE DRILLING PROGNOSIS

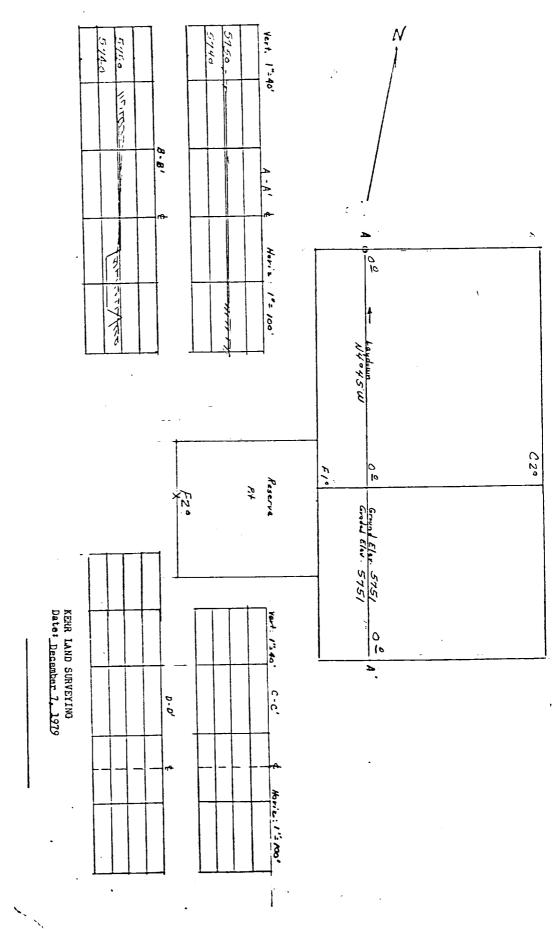
13. Certification -

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



990'FSL 990'FEL Sec 17-T288-REW SAN JUAN COUNTY, NEW MEXICO

TENNECO OIL COMPANY

CALCULATION SHEET

RILLING WELL SITE LAYOUT TAPP CON 5

990 FSL, 990 FEL SEC 17, TABN, 28W DATE 1-14-80

Minimal Cuts; Fill, No New Lond, Adjacent to AN Existing Location.

