SUBMIT IN TRIPLICATE Form approved. Budget Bureau No. 42-R1425.

(Other instructions on reverse side)

Form 9-331 C (May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR

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DELAKTMENT OF THE INTERIOR					U. LEASE DESIGNAT	ION AND BERIAL NO.	
GEOLOGICAL SURVEY					SF078566	=	
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK				6. IF INDIAN, ALLO	TTEE OH TRIBE NAME		
a TYPE OF WORK				7. UNIT AGREEMENT NAME			
DRII	L L 🛚 X	DEEPEN [ل	PLUG B	ACK 📙		,
b. TYPE OF WELL	s 🗂				TIPLE	S. FARM OR LEASE	NAME
WELL XX OTHER			ZO	NE ZON	<u> </u>	Storey D	
2. NAME OF OPERATOR	omp any					9. WELL NO.	-
Tenneco Oil Company 3. ADDRESS OF OPERATOR					#3	-	
720 S Colorado Blyd., Denver, CO 80222					10. FIELD AND POO	L, OR WILDCAT	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)					Basin Dak	ota	
At surface	he South line,				•	11. SEC., T., R., M., AND SURVEY O	OR BLK. R AREA
At proposed prod. zone	ne south line,	390 IIOM 62				Sec. 35,	T28N, R 8W
14. DISTANCE IN MILES A	ND DIRECTION FROM NEAR	EST TOWN OR POST	OFFIC	r.•	·	12. COUNTY OR PAR	RISH 13. STATE
12 Miles SE o						San Juan	NM
10 DISTANCE FROM PROPU	SED*	1	16. NO	O. OF ACRES IN LEASE	17. NO.	OF ACRES ASSIGNED	- <u></u>
LOCATION TO NEAREST	INE PT.	1	1	,266.80	TOT	306.80) *
(Also to nearest drig	OSED LOCATION®			OPOSED DEPTH	20. ROTA	RY OR CABLE TOOLS	· ·
TO NEAREST WELL, DE OR APPLIED FOR, ON THE	GILLING, COMPLETED,		7	,045'	Rot	ary	•
21. ELEVATIONS (Show whe				, 0.10		22. APPROX. DATE	WORK WILL START
6,262 GR						ASAP -	
23.	P	ROPOSED CASIN	G ANI	CEMENTING PRO	GRAM :		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO	OT	SETTING DEPTH	·	QUANTITY OF C	EMENT
13 3/4"	9 5/8" New			250'±	Circul	late to Surfa	ace -
8 3/4"	7"	23 lbs.	k55	3,500' ±		late to Surfa	
61/4"	4½" new	10.5 lbs	11.6	7,045'			Liner Hanger
SEE ATTAC IN ABOVE SPACE DESCRIBING THE PROPOSAL IS to preventer program, if an	E PROPOSED PROGRAM: If drill or deepen directions	proposal is to deep	el.	plur back, rive data o	on present pro	ductive zone and proed and true vertical	posed new productive depths. Give blowout
24.	11	1 -	1				
SIGNED J. D. T	Traywick	Myun	LE A	dministrative	Supervi	sor DATE 10	/18/79
(This space for Fede	eral or State office use)					•	
PERMIT NO		_,		APPROVAL DATE			
						•	•
APPROVED BY	VAL, IF ANY:	TIT	rle		· · · · · · · · · · · · · · · · · · ·	DATE	

NMOCC

*See Instructions On Reverse Side

STATE OF NEW MEXICO LHERGY AND MINERALS DEPARTMENT

P. O. BOX 2088 SANTA FE, NEW MEXICO 87501

All distances must be from the cuter houndaries of the Section. Operator TENNECO OIL COMPANY STOREY "D" Township Unit Letter 8w 28N San Juan M Actual Footage Location of Well: West line 1180 South feet from the Dedicated Acreage: Ground Level Elev. **Producing Formation** 306.80 Basin Dakota 6262 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? If answer is "yes," type of consolidation X No 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 Commis-CERTIFICATION I hereby certify that the information con-Position Administration Super-<u>visor</u> Company Tenneco Oil Company 10/18/79 Sec. 35 I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys mode by me or under my supervision, and that the same TENNECO OIL CO. is true and correct to the best of my knowledge and belief. 078566 Septemb Registere

1000

2000

TENNECO OIL COMPANY

PROGNOSIS TO DRILL AND COMPLETE

DIVISION: Rocky Mountain

DATE:

August 6, 1979

LEASE:

WELL NO .: D-3

Storey

FIELD:

Basin Dakota

LOCATION: 1180' FSL, 390" FWL

Section 35, T 28N, R 8W

San Juan County, New Mexico

ESTIMATED ELEVATION:

6200'

ESTIMATED TOTAL DEPTH: 7045

PROJECTED HORIZON:

DRILLING, CASING AND CEMENT PROGRAM:

- 1) MIRU Rotary tolls.
- 2) Drill 13 3/4" surface hole to $\frac{+}{2}$ 250'.
- 3) Run 9 5/8 36# K-55 ST & C casing. Set at 250'. Cement with sufficient volume to circulate to surface.
- 4) Nipple up well head and blow out equipment. Test prior to drilling out to 600 psi ½ hour.
- 5) Reduce hole to 8 3/4". Drill to 3,500' with water and Benex.
- 6) Run 7" casing, 23# F-55. Set at 3,000'. Cement with sufficient volume to circulate to surface.
- 7) Nipple up well head and rig to drill with air or air mist to total depth.
- Run $4\frac{1}{2}$ " liner consisting of 200' of $4\frac{1}{2}$ " 11.6#, 3,000' of K-55 ST & C 10.5# casing.
- Cement with sufficient volume to circulate cement through liner hanger, 9)
- 10) MORT.

ESTIMATED FORMATION TOPS:

SURFACE - San Jose Formation

OJO Alamo	1772	(water)	Mancos	4934	
Pictured Cliffs	2585 '	(gas)	Gallup	5973 ^t	(oil/gas)
Cliffhouse	4218'	(gas)	Greenhorn	6710 '	
Menefee	4350'	(gas)	Dakota	6807 '	(gas)
Point Look Out	4700	(gas)	TD	7045	(gas)

DRILLING MUD PROGRAM:

0 - 250' Native solids. Use sufficient viscosity to clean hole and run surface casing.

250' - 3,000' Low Solids. Use sufficient viscosity to clean hole and run intermediate casing.

3,000' - TD Gas or air/air mist.

CORING AND TESTING PROGRAM:

No cores or DST's are anticipated.

0 - 250' - 2° Max. 250' - 3,500' - 3° Max. 3,500' - TD - 5° Max.

- Survey surface hole at 100' intervals. Maximum allowable deviation at(1° per 100')
- 2. FROM SURFACE TO TOTAL DEPTH DEVIATION SURVEYS MUST BE TAKEN EVERY 500' OR EACH TRIP WHICHEVER IS FIRST. This may entail running the TOTCO on wireline. Record each survey on the AAODC Drilling Report Sheet. Maximum allowable change in deviation is 1° per 100'.

SAMPLES:

30' - 2,500' - 3,000'. Insure 300 into Lewis shale.

WELL SURVEYS:

Induction - Gamma Ray
Density - Gamma Ray - Caliper

BOP: 10" x 900 series Double Ram Preventor w/closing unit.

PREVENTORS MUST BE CHECKED FOR OPERATION EVERY 24 HOURS, AND THE CHECK MUST BE RE-CORDED ON THE AAODC DRILLING REPORT SHEET.

REPORTS

Drittle g 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 Don Barnes private line Monday-Friday (before 7:45 A.M.)
- 2. 303-936-0704 (home) Don Barnes weekends and holidays
- 3. 303-424-1269 (home) John Owen if Don Barnes 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
PENTHOUSE
720 SOUTH COLORADO BOULEVARD
DENVER, COLORADO 80222

ATTENTION: DRILLING DEPARTMENT

In case of an emergency, notify the following:

- 1. Mr. Don Barnes, Division Drilling Engineer 303-936-0704.
- 2. Mr. John Owen, Project Drilling Engineer 303-424-1269.
- 3. Mr. Mike Lacey, Division Production Manager 303-979-0509.

Storey D-3

Existing Roads

- A. Proposed Well Site Location: The proposed well site location was surveyed and staked by a registered land surveyor located at 1,180' from the South line, 390' from the West line, Sec. 35, T 28N, R 8W, San Juan County, NM. (see exhibit I, form C-102).
- B. Planned Access Route: Begins at the intersection of Canyon Largo & Mexico Highway 64, proceed down Canyon Largo for 10½ miles on North side enter Corezo Canyon, at first crossing Corezo Canyon proceed South across wash & up the Mesa for approx. 3 miles to flagged access rd. See Ex. II

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 Exhibit 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

Approximately 50' of new road will be constructed.

- A. Width:
 The average width of the road is twenty feet.
- B. Maximum Grades: Less than 3%.
- 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: None required.

1

F. Surfacing Material:
Native soil has been wetted, bladed and compacted to make the road surface, which is existing.

2. Planned Access Roads (Cont'd)

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

3. Location of Existing Wells

The proposed well is a development well. Exhibit shows existing wells within a one mile radius.

Α.	Water Wells:	None
В.	Abandoned Wells:	None
C.	Temporarily Abandoned Wells:	None
D.	Disposal Wells:	None
Ē.	Drilling Wells:	None
F.	Producing Wells: See Exhibit	III
G.	Shut-In Wells:	None
H.	Injection Wells:	None
T.	Monitoring or Observation Wells:	None.

4. Location of Existing and/or Proposed Facilities

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

(1)	Tank batteries -	None
(1) (2) (3) (4) (5) (6)	Production facilities -	See Exhibit III
(3)	Oil Gathering Lines -	None
(4)	Gas Gathering Lines -	None
(5)	Injection Lines -	None
(6)	Disposal Lines -	None

- B. New facilities in the event of production:
 (1) Dimensions of the drill pad (See Exhibit IV).
 (2)
 - (3) Construction Materials/Methods: Construction materials will be native to the site. Facilities will consist of a well pad.
 - (4) Protection of Wildlife/Livestock: Facilities will be fenced as needed to protect wildlife and/or livestock

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 the 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.

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: N/A:

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.

7. 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.

- 9. Well Site Layout
 - A. See 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 Item 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: The surface description for the proposed well site is located approx. 3 miles South of Corezo Wash on a bench of a large Mesa. Principle vegetation is 4-Wing Salt Brush, Pinion Juniper, Mormon Tea, various grasses. Soil is sandy loam.
- 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:
 - Water: There are no reservoirs or streams in the immediate area.
 - Occupied Dwellings: There are no occupied dwellings or buildings in the area.
 - Sites: An archeological reconnissance has been performed for this location and clearance has been granted.

12. Operator's Field Representative

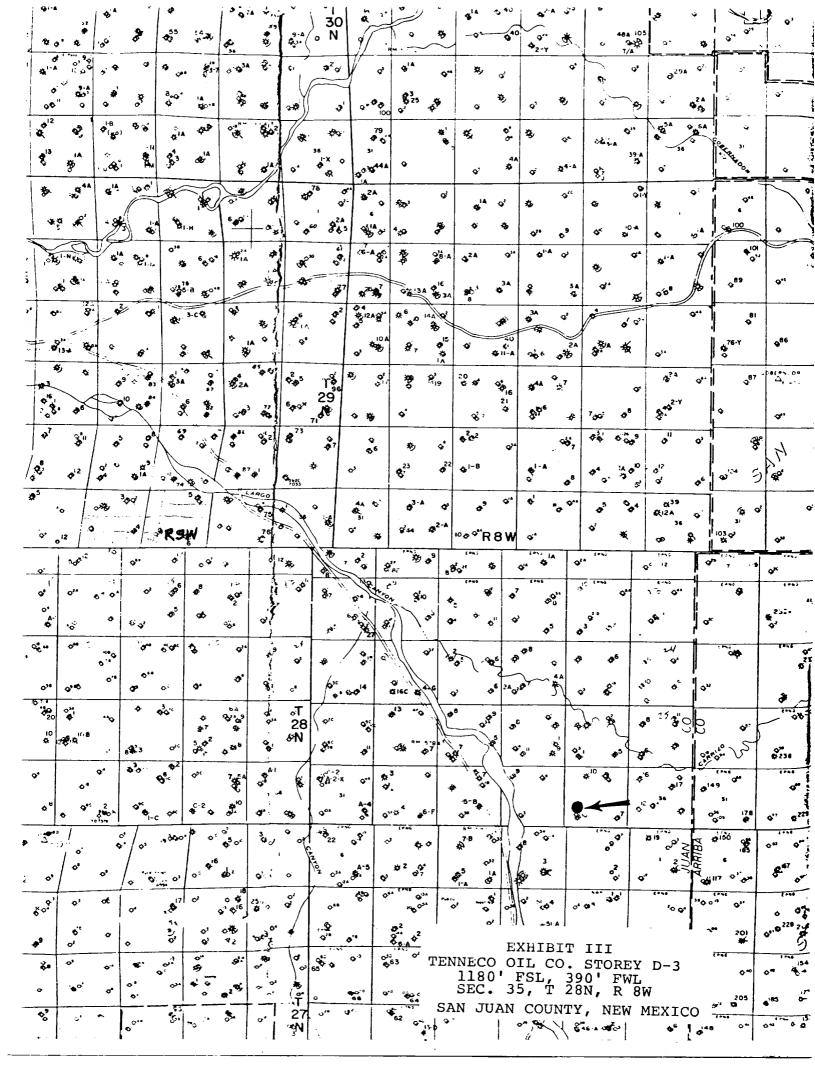
Donald S. Barnes
Division Drilling Engineer
Tenneco Oil Company
720 South Colorado Blvd.
Penthouse
Denver, CO 80222
(303) 758-7130 Ext. 212

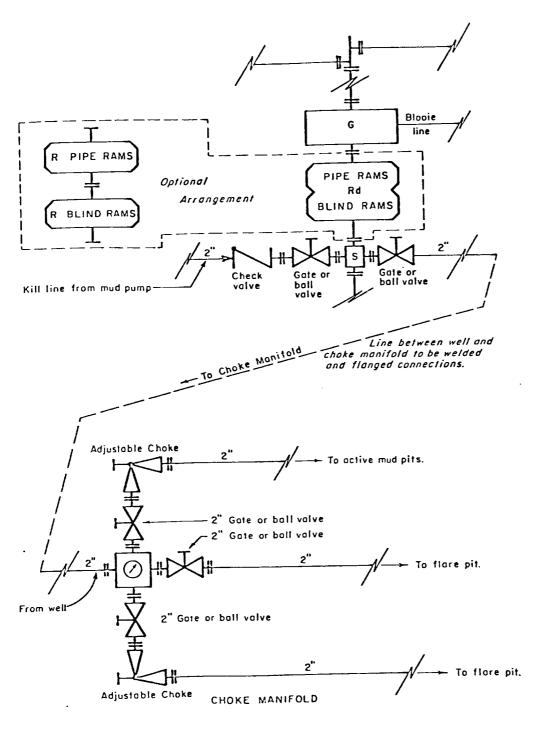
13. <u>Certification</u>

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: October 19, 1979

ADMINISTRATION SUPERVISOR





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

- Double ram type preventer with two sets of rams. Rd
- Single ram type preventer with one set of rams.
- 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 J. MAGILL 10-26-79 EVI

