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(Other Instructions on Terense side)

norma norman No. 42 H1425 30-045-23342

UNITED STATES	Terefae a
EPARTMENT OF THE INTERIOR	

SECLOGICAL SURVEY

5. LEASE PESIGNATION AND SERIAL NO.

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6.	LF	INDIA	N,	ALL	OTI	EE	OR	TRIBE	NAMI	•

020200.07.	L SOICE!		USA SF 0/8416	A	
APPLICATION FOR PERMIT TO D	RILL, DEEPEN, OR PL	UG BACK	6. IF INDIAN, ALLOTTE	OR TRIBE NAME	
DRILL D	EEPEN 🗌 PLU	G BACK 🗌	7. UNIT AGEREMENT N	AME	
D. TYPE OF WELL OIL GAB XX OTHER	SINGLE ZONE	MULTIPLE ZONE	S. FARM OR LEASE NA	X B	
2. NAME OF OPERATOR			Wilch		
Tenneco Oil Company			9. WELL NO.	,	
3. ADDRESS OF OPERATOR			3	•	
720 South Colorado Blvd, Denver, 4 LOCATION OF WELL (Report location clearly and in acc	CO 80222 ordance with any State requiremen	ts.*)	Dakota	DE WILDCAT	
At surface 920' FNL, 1800 FEL			11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA		
At proposed prod. zone			Sec. 23, T29	-	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TO	OWN OR POST OFFICE®		12. COUNTY OF PARISH	13. STATE	
See Point 1B of Surface Use Plan			San Juan	New Mexico	
15. DISTANCE FROM PROPOSED® LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig, unit line, if any)	16. NO. OF ACRES IN 1 2080		OF ACRES ASSIGNED HIS VELL 320	-	
18. DISTANCE FROM PROPOSED LOCATION®	BY OB CABLE TOOLS				
TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.	7915	Ro	tary	. .	
21. ELEVATIONS (Show whether DF, RT, GR, etc.)	'12' GL		April 1979	ORK WILL START	
PROPO	SED CASING AND CEMENTING	PROGRAM	No.		

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT.
13-3/4"	9-5/8"	36#	+ 300	Sufficient to circulate to surface
8-3/4"	4-1/2"	10.5#	+ 7915	Sufficient to circulate to surface

.1. The geologic name of the surface formation is Tertiary San Jose.

2&3. Estimated Formation Tops

<u>+</u> 3050' Fruitland Mancos <u>+</u> 6815' + 3375' Gallup Picture Cliffs + 3465' + 4935' + 7575**'** GreenHorn Lewis Shale Dakota "A" _ + 7675**'** Cliffhouse

- Run 9-5/8" OD K-55 new casing to 300' and circulate cement to surface. Drill 8-3/4" hole to 200' into Lewis Shale, Run 7", 23# K-55 casing to TD and cement to surface. Drill out 7" with $6\frac{1}{4}$ " bit using gas as circulation fluid. Drill to TD. If Productive, run $4\frac{1}{2}$ " OD K-55 casing to TD, cement in one stage to above Mesaverde zone.
- 5. Blowout Preventors: Hydraulic, double ram 10". One set rams will be provided for each size drill pipe in 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 complete. BOP's, drills and test will be recorded in the IADC Drilling Report. They will be checked every 24 hours. All rig equipment will be tested to above BOP ratings.
- 6. 0-300' spud mud with sufficient viscosity to clean hole and run casing. 300' 3665'+ low solids fresh-water, no WL control. 3665' - TD gas.

Auxiliary Equipment

- A. Kelly cock will be in use at all times.
- B. Stabbing valve to fit drill pipe will be present on floor at all times.
- C. Mud monitoring will be visual, no abnormal pressures are anticipated.

Floats at bits.

E. Drill string safety valve(s) to fit all pipe in drill string will be maintained on the rig floor while drilling is in progress.

F. Rotating head will be used while drilling with gas.

- No cores will be taken. GR/FDC/CNL Caliper from TD to base of Mesaverde. GR/Induction/SP/SN from TD to 7" casing GR to surface.
- No abnormal pressures or temperatures are anticipated. See point #5 for blowout preventions.
- 10. Drilling time for this well will be approximately ten days. Gas is not yet contracted.



DEC 21 1978

Production Hanager

The same of the same

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deeper , give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent c preventer program, if any. locations and measured and true vertical depths. Give blowout 1. S. GEOLOGICAL SURVEY

24.		15.	
SIGNED _	~ 1/01	1/10/2	Dir.
BIGNED			

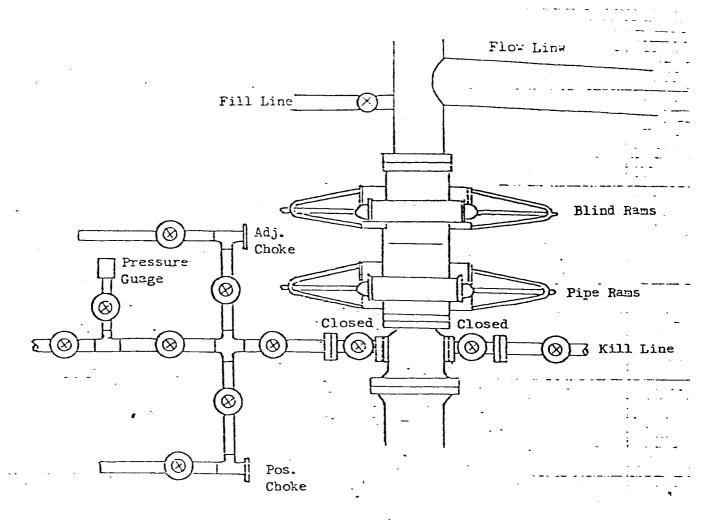
(This space for Federal or State office use)

mocc

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

All distances must be from the outer boundaries of the Section

		7.1. 201211010		uter boundaries of	the beetson.		
Cperator TENNECO OIL COMPANY			Lease WI	ICH			Well No.
Unit Letter Section Township			Range County				
В	B 23 29N 8W					n	
920		orth line and	1800	feet	t from the E	ast	line
Ground Level Elev.	Producing For	mation	Pool	_		Dedic	cated Acreage:
6712	Dakota			n Dakota			320 Acres
1. Outline th	e acreage dedica	ted to the subject we	ell by c	colored pencil of	r hachure m	arks on the pla	t 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	☐ No If a	nswer is "yes;" type o	f consc	olidation			
If answer	is "no" list the	owners and tract desc	ription	s which have ac	tually been	consolidated.	(Use reverse side of
	f necessary.)						
		ed to the well until all					
•	ling, or otherwise	or until a non-standar	d unit,	eliminating suc	h interests,	, has been appr	oved by the Commis-
sion.							
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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



Existing Roads

A. Proposed Well Site Location:
The proposed well site location was surveyed and staked by a register land surveyor and is located 920' FNL and 1800' FEL, Section 23, T29N, R8W, San Juan County, New Mexico. (See Surveyors Plat, Exhibit I).

B. Planned Access Route:

The planned access route begins in Blanco, NM and goes east on

Hwy 64 for 7.5 miles to the junction of a gravel road which turns to

the south. Proceed south on this gravel road for approx 2.75 miles

to the junction of a new road to the south. This begins the new

C. Access Road Labelled: '/access route 0.6 miles to the new location on

/an existing trail. (See Exhibit II).

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 II 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 twelve feet.
- B. Maximum Grades:

 The maximum grades will follow the existing road grades. Approx an 8 percent grade will be needed where the new access road begins (existing trail).
- 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 will be needed. No major cuts and fills will be needed.
 An approximate 3 foot cut and fill will be needed throughout the location.
- F. Surfacing Material:
 Native soil has been wetted, bladed and compacted to make the road surface, which is existing.



Planned Access Roads (Cont'd) 2.

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

Location of Existing Wells 3.

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

- Water Wells: None None Abandoned Wells: A.
- В.
- Temporarily Abandoned Wells: None. С.
- Disposal Wells: None. D.
- Drilling Wells: See Exhibit III. Ε.
- Producing Wells: See Exhibit III. F.
- Shut-In Wells: None. G.
- Injection Wells: None. Η.
- Monitoring or Observation Wells: None. I.

Location of Existing and/or Proposed Facilities 4.

- Existing facilities within one mile owned or controlled Α. by Lessee/Operator: See Exhibit III.
 - Tank batteries See Exhibit III.
 - Production facilities See Exhibit III.
 - (2) (3) Oil Gathering Lines - n/a
 - Gas Gathering Lines n/a (4)
 - Injection Lines n/a (5)
 - (6)Disposal Lines - n/a

- New facilities in the event of production: В.
 - New facilities will be within the dimensions of the drill pad. (1)
 - Dimensions are shown on Exhibit IV. (2)
 - 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 as 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 tank, wellhead 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: 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.

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DIST. 3

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.

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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 topography of the area is flat with cedar trees and yucca scattered throughout the area.
- 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.
 - 3. Sites: An archeological reconnissance has been performed for this location and clearance has been granted.



Operator's Field Representative 12.

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

Certification 13.

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 0il Company and its contractors and subcontractos will conform to this plan.

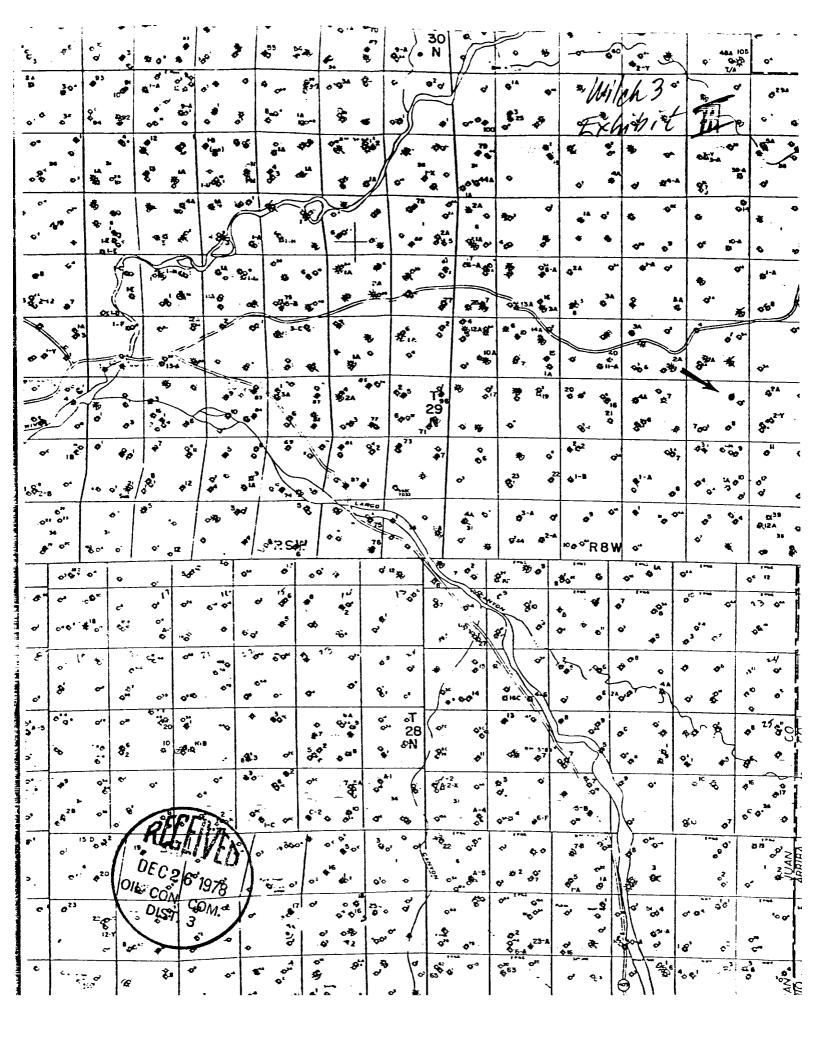
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Division Production Manager







CALCULATION SHEET

