# SUBMIT IN TRIPLICATE (Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

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# **IINITED STATES**

	<u>, 500 1776</u> 0 - <u>178</u> 0 - <u>1</u>										
	DEPARTMENT	5. LEASE DESIGNATION AND SERIAL NO.									
	GEOLO	USA-SF-065588									
APPLICATION	FOR PERMIT T	O DRILL, D	DEEPE	N, OR I	PLUG E	ACK	6. IF INDIAN, ALLOTTEE	OR TRIBE NAME			
	L 🛚	DEEPEN [		PL	.UG BA	ск 🗆	7. UNIT AGREEMENT N	AME	•		
OIL GA. WELL	S OTHER		818 201	NE X	MULTIF ZONE	LE _	S. FARM OR LEASE NA	ME			
2. NAME OF OPERATOR							Lindsey "B"		_		
Tenneco Oil C	Company						9. WELL 40.				
3. ADDRESS OF OPERATOR							1				
720 South Col	orado Blvd., D	enver, CO 8	0222				10. FIELD AND POOL, OR WILDCAT				
4. LOCATION OF WELL (Re	port location clearly and	in accordance wit	th any S	tate requiren	ents.*)		Basin Dakota 🖊				
At surface 1180'	FSL, 790' FWL						11. SEC., T., R., M., OR BUE. AND SURVEY OR AREA				
At proposed prod. zone	2						Sec. 28, T30N, R9W				
14. DISTANCE IN MILES A	ND DIRECTION FROM NEA	REST TOWN OR POS	T OFFICE	*			12. COUNTY OR PARISH 13. STATE				
See Point 1B	Surface Use P	lan					San Juan	New Mexic	0:		
15. DISTANCE FROM PROPO	SED*						OF ACRES ASSIGNED		-		
LOCATION TO NEAREST PROPERTY OR LEASE L (Also to nearest drig	INE, FT.						w/ 3:	20	_		
18. DISTANCE FROM PROPORTION NEAREST WELL, DI	OSED LOCATION*					20. ROT.	ROTARY OR CABLE TOÖLS				
OR APPLIED FOR, ON THE		7300				Rotary					
21. ELEVATIONS (Show who	ther DF, RT, GR, etc.)						22. APPROX. DATE W	ORK WILL START	* 1 - 1.		
			-				April 15,	1979			
23.	]	PROPOSED CASI	NG ANI	CEMENTI	NG PROGR	AM	in a super-		_		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	FOOT SETTING DEPTH			QUANTITY OF CEMENT:					
13-3/4"	9-5/8"	36#		300 <b>'</b>		Suffi	cient to circu	late to sur	cface		
8-3/4"	7"	23#		2900 <b>'</b>		Suffi	cient to circu	late to sur	rface		
6-1/4"	41211	as per des	sign	T.D.							
The geological	l name of the s	' surface fort	nation	n is Ter	tiary S	San Jos	e.				
. Estimated Form								ř.			
Fruitland											
Pigtured Clif	fc + 24	IOS! Mand	cos	+ 5	425 <b>'</b> .						

2&3

<u>+</u> 2625 <u>+</u> 6325' Gallup Lewis Shale + 6970**'** + 4400 Greenhorn Cliffhouse Dakota A Menefee

T.D. Point Lookout

+ 7065' possible oil/gas producer + 7300' possible oil/gas producer

- Run 9-5/8" OD, K-55 new casing to  $\pm$  300' and circulate cement to surface. Run 7" OD, K-55 new casing to <u>+</u> 2900' and circulate cement to surface. Set 7" casing 200-300' into Lewis Shale. Drill out 7" with 6-1/4" bit using gas as circulating fluid. Drill a few feet of formation and then blow hole with gas until it is dusting. Drill to T.J. Run 4-1/2" casing to T.D. as per design. The wellhead will be an approved API type.
- Blowout Preventors: Hudraulic, 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. BOPs 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. BOPs, 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..
- Drilling Mud Program: 0-300 spud mud. 300 T.D. 7" casing low solids, fresh water mud, no water loss control. 3500 T.D. gas. ٥.

Auxiliary Equipment

- a. Kelly cock will be in use at all times.
- 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 in this area.
- d. 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 will be taken. Samples will be taken as directed by wellsite geological engineer. 3. Well surveys will consist of GR/FDC/CNL Caliper from T.D. to base of Mesaverde. GR/SP/SN Induction from T.D. to surface casing.
- No abnormal pressures or temperatures are anticipated. See point #5 for blowout prevention equipment.
- The drilling of this well will take approximately  $10\ \mathrm{days}$ . 10.

The gas is not

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NMacc

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true preventer program, if any.

24.						-61		
~	BIGNED D. M. Murey	TITLE	Div.	. Production Manager	DATE	March	20,	1979
==	(This space for Federal or State office use)							
	(22.0 0,200							

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

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

All distances must be from the outer boundaries of the Section.

Operator				· · ·	Lease					Well No.	<del></del>
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Unit Letter	Section		Township		Rang		County				
M	2	8	30N		91	J	San Ju	lan'		-	-
Actual Footage Lo	cation of	Well:		<u> </u>							
1180 feet from the South line and 790 feet from the West line										1	
Ground Level Elev		Producing Form	ation		Pool		nom the		Dedico	ited Acreage;	
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#### LINDSEY "B" 1

## 1. Existing Roads

- A. Proposed Well Site Location:
  The proposed well site was surveyed and staked by a registered land surveyor and is located 1160' FWL, and 1450' FSL, Section 28, T30N, R9W, San Juan County, New Mexico. (See Exhibit I, Surveyor's Plat).
- B. Planned Access Route: The planned access route begins in Blanco, New Mexico and goes north from the main highway approx. 2 miles to a fork in the road, proceed straight on the main road past the fork and continue approx 1.5 miles to a junction of another main road which goes north and south. Cross main road turning east and go

C. Access Road Labelled: '/approx. 1/3 mile to location.

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 twenty feet.
- B. Maximum Grades: The maximum grades will be six percent.
- 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 necessary. No major cuts and fills will be necessary.
- F. Surfacing Material:
  Native soil has been wetted, bladed and compacted to make the road surface, which is existing.

# 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 III shows existing wells within a one mile radius.

- A. Water Wells: None.
- B. Abandoned Wells: None.
- C. Temporarily Abandoned Wells: None-
- D. Disposal Wells: None
- E. Drilling Wells: See Exhibit III.
- F. Producing Wells: See Exhibit III.
- G. Shut-In Wells: None.
- H. Injection Wells: None.
- I. 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:

See Exhibit III.

- (1) Tank batteries n/a
- (2) Production facilities See Exhibit III.
- (3) Oil Gathering Lines n/a
- (4) Gas Gathering Lines See Exhibit II and III.
- (5) Injection Lines n/a
- (6) Disposal Lines n/a

- B. New facilities in the event of production:
  - (1) New facilities will be within the dimension of the drill pad.
  - (2) Dimensions are shown on Exhibit IV.
  - 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.

# 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 wellhead, 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: 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. Wall 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 proposed site is a relatively flat area, with an abundance of sagebrush and cedar trees. This location is approximately 2 miles north of the San Juan River.

- 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

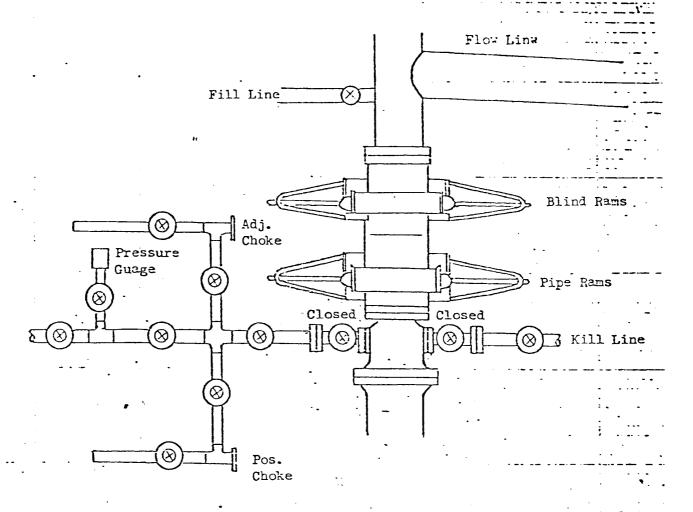
Donald S. Barnes
Division Drilling Engineer
Tenneco Oil Company
720 South Colorado Blvd.
Penthouse
Denver, CO 80222
(303) 758-7130 Ext. 212

## 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: 3-20-79

Division Production Manager



All valves 2"

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

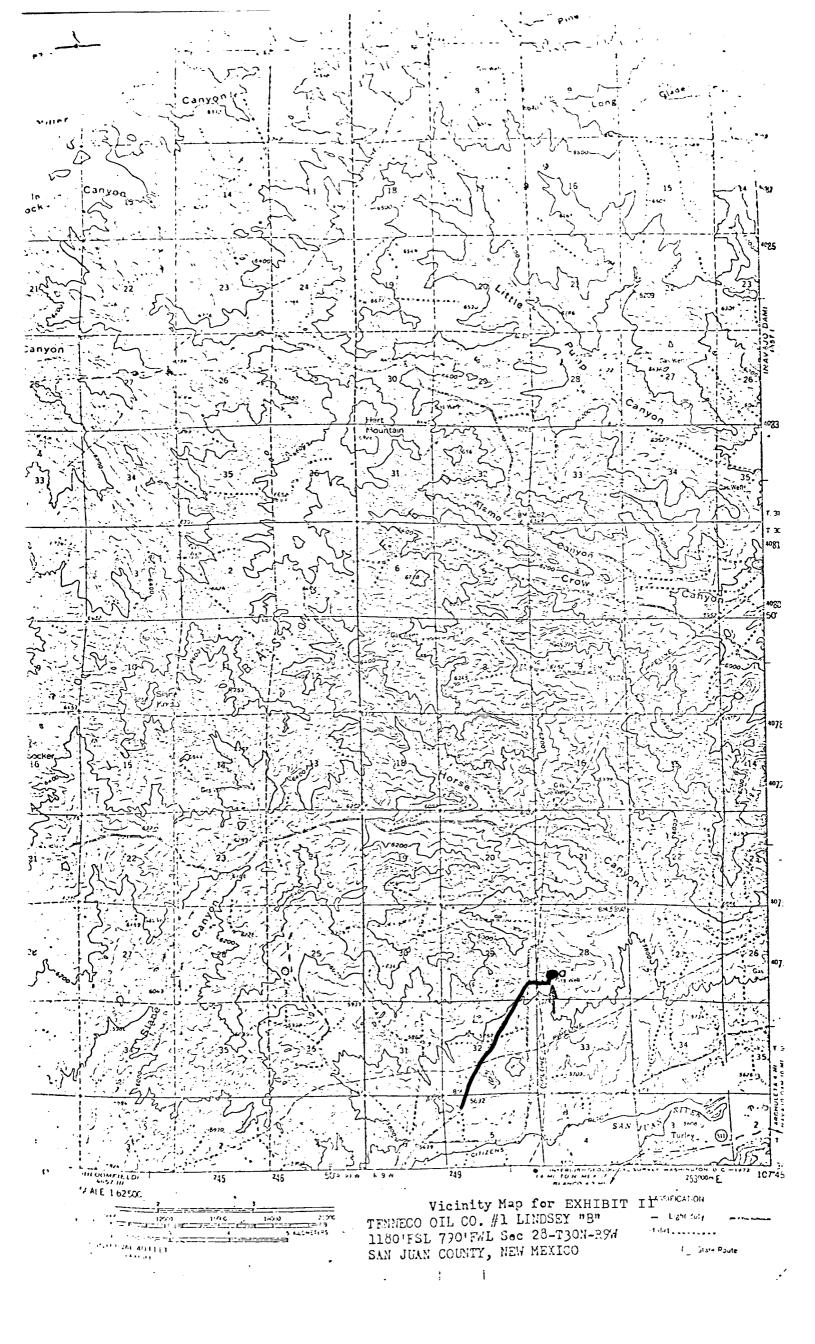
Choke manifold must be at ground level and extended out from under substructure.

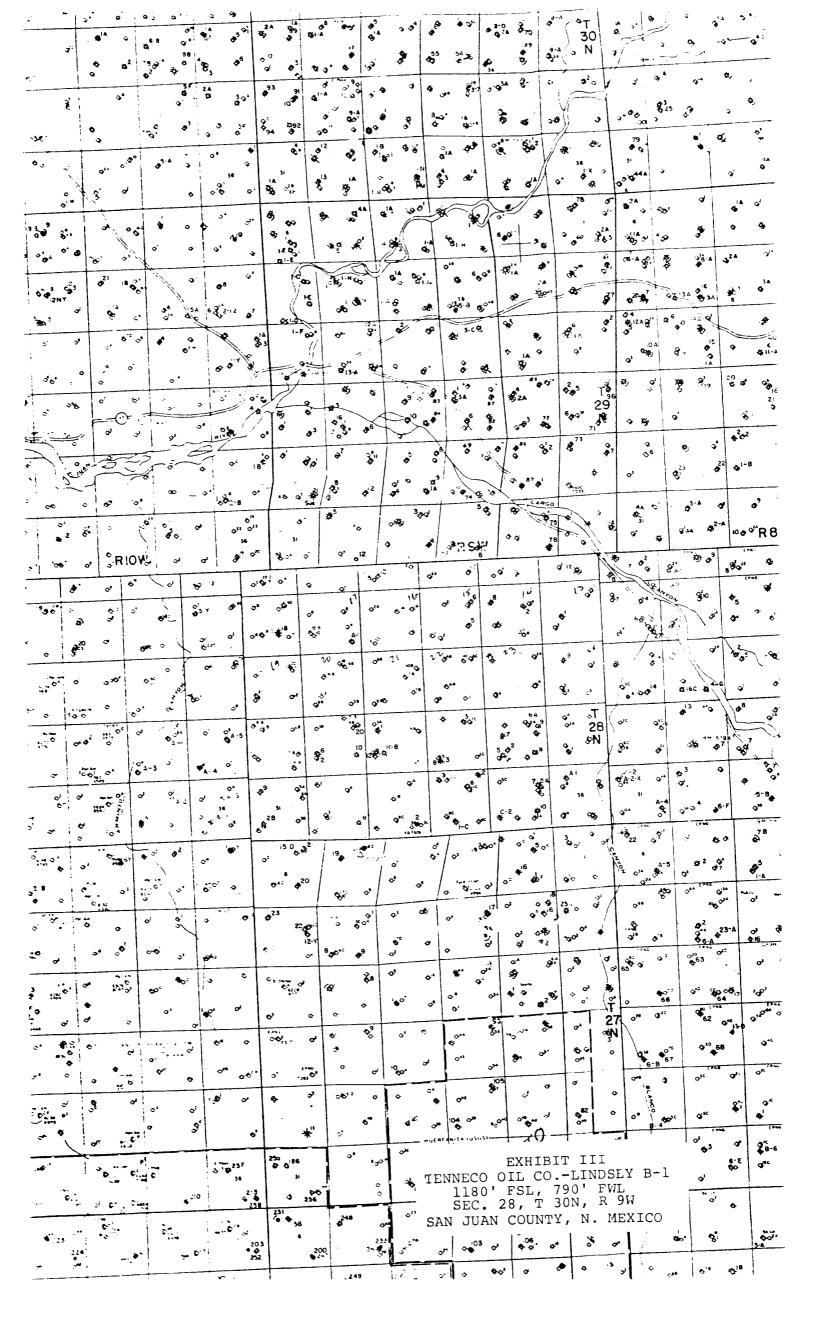
TENNECO OIL COMPANY

REQUIRED MINIMUM BLOWOUT PREVENTOR

HOOKUP

Denver, Colorado





#### TENNECO OIL COMPANY

#### CALCULATION SHEET

