### SUBMIT IN TRIPLICATE\*

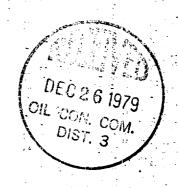
(Other instructions on

Form approved. Budget Bureau No. 42-R1425.

HNITED STATES

	DEPARTMENT	OF THE INTE	RIOR	Hige)	30 - 075 - 24/03  5. LEASE DESIGNATION AND REBIAL NO.		
APPLICATION	N FOR PERMIT T	O DRILL DEEP	PEN OR PLUG	BACK	NM 012202 G. IF INDIAN, ALLOTTEE OR TRIBE NAME		
la. TYPE OF WORK	ILL 🖾	DEEPEN	PLUG BA		7. UNIT AGREEMENT NAME		
OIL C	AS OTHER		SINGLE MCLTI	rle	S. FARM OR LEASE NAME		
Tenneco Oil	Company				Bolack "E"		
3. ADDRESS OF OPERATOR							
	ado Blvd., Denv	<u> </u>			10. FIELD AND POOL, OR WILDCAT		
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*) At surface					Basin Dakota  11. SEC. T., R., M., OR BLK. AND SURVEY OR AREA  Sec 33 T28N R8W		
1640 FSi 1080 FWL							
At proposed prod. zone							
14. DISTANCE IN MILES	AND DIRECTION FROM NEAR	EST TOWN OR POST OFFI	CE*	<del></del>	12. COUNTY OR PARISH   13. STATE		
10.6 miles SE	of Blanco, N.M.	•			Jan Giant		
10. DISTANCE FROM PROPO LOCATION TO NEARES		16. N	O. OF ACRES IN LEASE		DF ACRES ASSIGNED		
PROPERTY OR LEASE LINE, FT. (Also to nearest drig, unit line, if any)			35.36	32	5/295,36		
18. DISTANCE FROM PROF	OSED LOCATION®	19. г	ROPOSED DEPTH	20. ROTA	RY OR CABLE TOOLS		
TO NEAREST WELL, D OR APPLIED FOR, ON TH			7080	Rotary			
21. ELEVATIONS (Show wh	· · · · · · · · · · · · · · · · · · ·			:	22. APPROX. DATE WORK WILL START*		
	12 GR				ASAP		
23.	Р	ROPOSED CASING AN	D CEMENTING PROGR	AM			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	<i>i</i>	QUANTITY OF CEMENT		
13 3/4"	9 5/8" new	36# <b>,</b> K-55	250' -	Circu	irculate to surface		
8 3/4"	7" new	23#, K-55	3500 ±	Circu	culate to surface		
6 <sup>1</sup> 4"	4½" new	10.5#, 11.6#	7080' ±	Circu	late through liner hanger		

THE GAS IS DEDICATED



$M \rightarrow I$		
SIGNED M. Lee Freeman	TITLE Staff Production Analyst	DATE 12-17-79
(This space for Federal or State office use)		
PERMIT NO.	APPROVAL DATE	
APPROVED BY		•

with lower

\*See Instructions On Reverse Side

# STATÉ OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

### OIL CONSERVATION DIVISION

F. O. BOX 2088

SANTA FE, NEW MEXICO 87501

All distances must be for

Form C-102 Revised 10-1-78

	· <del></del>	All distances must be fr	· <del></del>		·	<del></del>
Operator	TT COMPAND		Legse			Well No.
TENNECO O. Unit Letter	IL COMPANY Section	Township	BOLACK "E"	County		
L		28N	- SW	1	Juan	
Actual Footage Lo	33	Z OM		Jan	ouali	·
1640		uth line and	1.080		West	
Ground Level Elev.		11110 41.4	T <sub>Pool</sub>	feet from the	1620	line Dedicated Acreage:
6042	Dakota		Basin Dakota			320:00 295,3 ( Acres
	·····	<del></del>		-1 1 1		
<ol> <li>Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.</li> <li>If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).</li> </ol>						
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 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 Commission.						
	<b>i</b>		<u> </u>			CERTIFICATION
·	       	,			tained he best of m	retrify that the information con- rein is true and complete to the y knowledge and belief.
*	1		. 1 2 M.		Position	ee Freeman roduction Analyst
	1				Company Tenneco	Oil Company
	l Se	· .	, <u> </u>		Date December	r 17, 1979
\$101627831641666			*********			
1080'		33 SA NM-0122 TOC - ½ Conoco - ½	02		shown on notes of under my is true a	certify that the well location this plat was plotted from field actual surveys made by me or supervision, and that the same and correct to the best of my and belief.
	1640'	320.00 acres			Date Surveyor  Octobe  Registered Fand/or Land	rofessional Efficience
0 330 660	10 1320 1650 1940	2310 2640 2000	1500 1000	500 0	Fred B Certificate N 3950	
				U	, <u>, , , , , , , , , , , , , , , , , , </u>	

#### TENNECO OIL COMPANY

#### PROGNOSIS TO DRILL AND COMPLETE

DIVISION: Rocky Mountain DATE: August 6, 1979

LEASE: Bolack WELL NO.: E-1

LOCATION: 1640' FSL, 1080' FWL FIELD: Basin Dakota

Section 33, T 28N, R 8W San Juan County, New Mexico

ESTIMATED ELEVATION: 6200'

ESTIMATED TOTAL DEPTH: 7080'

PROJECTED HORIZON: Dakota

DRILLING, CASING AND CEMENT PROGRAM:

(1) MIRURT.

- (2) Drill a 13-3/4" hole to  $250^{\frac{1}{2}}$ . Run 9 5/8", 36#, K-55, ST&C casing to T.D. and cement to surface. Use 2% CaCl<sub>2</sub> in cement.
- (3) Cut off casing and weld on casing head. Pressure test weld to 1000 psi. NUBOP's and manifold. Pressure test casing, BOP's and manifold to 1000 psi for 30 minutes.
- (4) Drill out shoe and reduce hole to 8 3/4". Drill 8 3/4" hole to 3500'. Run 7", 23#, K-55, ST&C casing to T.D. and cement to surface. (Set 7" 200-300' into Lewis shale.)
- (5) Land casing is slips and cut off. Install drilling spool on casing head. Install rotating head, manifold and flare line. Pressure test blind rams, manifold and casing to 1000 psi for 15 minutes. Pick up drilling assembly and 3 1/2" drill
- (6) Drill out of 7" with 6 1/4" bit. Drill to within 5' fo shoe and displace water with Nitrogen. Drill 5' of formation and blow with gas until well dusts. Drill to TD.
- (7) Log the hole dry as directed by the wellsite geological engineer and gauge the natural flow from the Dakota.
- (8) If productive, run 4 1/2" casing to T.D. as per casing design. Cement in one stage. Bring dement to above Mesaverde zone.
- 9) If nonproductive, plug and abandon as per U.S.G.S. requirements.

ESTIMATED FORMATION TOPS:

SURFACE - San Jose Formation

OJO Alamo	1494'	(water)	Mancos	4752 <b>'</b>	
Pictured Cliffs	2418'	(gas)	Gallup	5904'	(oil/gas)
Cliffhouse	4134'	(gas)	Greenhorn	6667'	
Menefee	4157'	(gas)	Dakota	6854'	(gas)
Point Look Out	4655'	(gas)			

#### DRILLING MUD PROGRAM:

 $\rm 0$  -  $250^{\circ}$  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.

DEVIATION SURVEYS: 0 - 250' - 20 Max. 250' - 3,500' - 30 Max.

- 3,500 TD  $5^{\circ}$  Max.

  1. Survey surface hole at 100' intervals. Maximum allowable deviation at
- 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 10 per 100'.

#### SAMPLES:

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

### WELL SURVEYS:

Induction - Gamma Ray
Density - Gamma Ray - Caliper

 $\underline{BOP}$ : 10" x 000 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

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.

- 1. 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

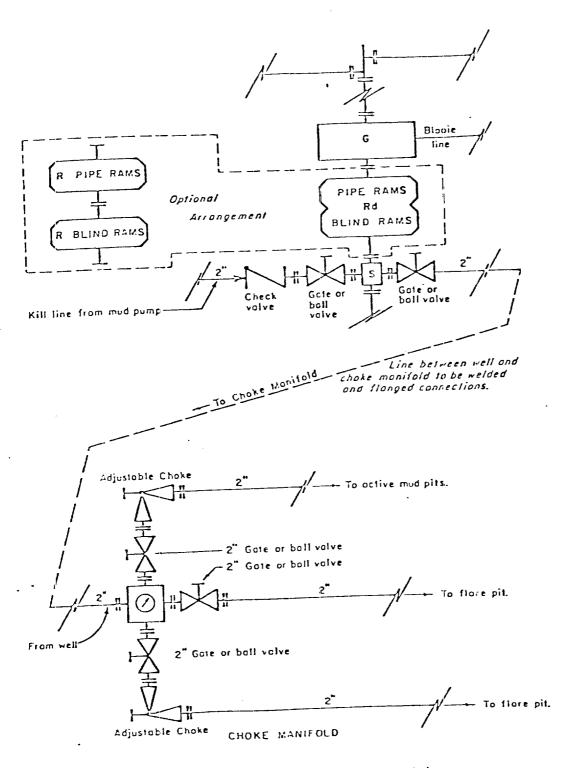
The yellow sheet of the IADC Report to be filled out completely, the original copy of the drilling time recorder, and copies of any invoices from this well signed and received for Tenneco Oil Company will be mailed daily to:

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.



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

- Double ram type preventer with two sets of roms. Rd
- Single rom type preventer with one set of roms.
- Dritting spool with side outlet connections for choke and kill lines. R
- 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

- 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.
- 2. 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.
- 7. Methods of Handling Waste Materials All garbage and trash materials will be 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 I 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.

- 8. Ancillary Facilities No camps or airstrips will be associated with this project.
- 9. 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 on a mesa bench in very broken topography above Canyon Largo. The soil is fractured sandstone with sandstone outcrops. The principal vegetation is pinon, juniper and various native grasses. The proposed access is approximately ½ mile in length with grades up to 15%.
- 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 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

## TENNECO OIL COMPANY

### CALCULATION SHEET

