UNITED STATES
DEPARTMENT OF THE INTERIOR

Budget Bureau No. 42-R1425. (Other instructions on reverse side)

30-045-2465/ 5. IJASE DESIGNATION AND SECIAL NO.

G	EOLOGICAL SURVI	EY			SF-078147		
APPLICATION FOR PERI	MIT TO DRILL, [	DEEPEN, OR F	LUG BA	<b>ACK</b>	G. IF INDIAN, ALLOTTLE	OE TEIBE NAME	
1a. TYPE OF WORK  DRILL X	DEEPEN [	PL	UG BAC	<b>(</b> 🗆	7. UNIT AGREEMENT N.	AM K	
D. TYPE OF WELL OIL GAS [V]		SINGLE X	MULTIPLE	• 🖂 🖯	E. FARM OR LEASE NAM	i E	
OIL GAS WELL X OT  2. NAME OF OPERATOR	HER	ZONE LA	ZONE		Moore C		
Tenneco Oil Company					9. WELL NO.		
3. ADDRESS OF OPERATOR					2E		
. 720 So. Colorado Blvd.,	Denver, Colorae	do 80222	ents.*)		10. FIELD AND POOL, O Basin Dakota	B WILDCAT	
At surface					11. SEC., T., R., M., OR I		
1100 FSL, 1550 At proposed prod. zone	Ł.M.T				AND SURVEY OR AR		
					Sec. 26, T32N, R12W		
same as above 14. DISTANCE IN MILES AND DIRECTION FR	OM NEAREST TOWN OR POS	T OFFICE®			12. COUNTY OR PARISH	Į.	
Approximately 9 miles N	NW of Aztec, N.		<del></del>		San Juan	N.M.	
15. DISTANCE FROM PROPOSED® LOCATION TO NEAREST		16. NO. OF ACRES IN	LEASE		F ACRES ASSIGNED		
PROPERTY OR LEASE LINE, FT. (Also to nearest drig, unit line, if any	1100'	2240			$\omega$ / 320		
15. DISTANCE FROM PROPOSED LOCATION® TO NEAREST WELL, DRILLING, COMPLETE		19. PROPOSED DEPTH ±7550 *		_	ROTARY OR CABLE TOOLS ROTARY		
OR APPLIED FOR, ON THIS LEASE, FT.		1 2/350			22, APPROX. DATE WO	DE WILL STANTS	
21. ELEVATIONS (Show whether DF, RT, GR, 6331 GR	etc.)				June 1981		
23.	DECEMBER CARY	YO AND OFHERMAN	C DEOCRA				
20.	PROPOSED CASI	NG AND CEMENTIN	<del></del>				
SIZE OF HOLE SIZE OF CAS:			]		QUANTITY OF CEMES		
12 1/4" 9 5/8" 1			50'	Circulate to surface Circulate to surface			
8 3/4" 7" new 6 1/4" 4 1/2" 1	23# new 11.6#, 10.	5# ±33	1		late to surrac		
0C	OLOGICAL SURVEY	pen or plug back, given data on subsurface	e data on pr	esent prod	uctive zone and proposed and true vertical depti	d new productive hs. Give blowout	
SIGNED . M	Mishler TI	Sr. Produc	tion An	alyst	Sept.	30, 1980	
(This space for Federal or State office							
		APPROVAL DAT					
PERMIT NO.		APPROVAL DAY			•		
APPROVED BY CONDITIONS PRAPPROVAL IF ANT:  FOR  WITH IT AND THE PROVAL IF ANT:  TO THE PROPERTY OF THE PROPERT	*See Instr	uctions On Revers	e Sid <b>e</b>		DATE		
of t							

#### STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

## C'L CONSERVATION DIVISION

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

Form C-107 Revised 10-1-78

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

TENNECO OIL COMPANY  With Latter  Section  Township  Jan  12W  San Juan  Acres  Acres  1100 feet from the South Itea and 1550  Acres  6331 Dekota  10 Delicented Acresary  Basin Dakota  1. Outline the acreage dedicated to the subject well by colored pencil or bachure marks on the plat below interest and royalty).  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-peoling etc?  If answer is "fao" list the owners and tract descriptions which have actually been consolidated. (Use reverse aide of this form if accessary).  No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, sion.)  No allowable will be assigned to the well until all interests have been consolidated. (Use reverse aide of this form if accessary).  No allowable will be assigned to the well until all interests have been consolidated. (Use reverse aide of this form if accessary).  No allowable will be assigned to the well until all interests have been consolidated. (Use reverse aide of this form if accessary).  No allowable will be assigned to the well until all interests have been consolidated. (We communitization, unitization, unitiza	Operator			Lease	Well No.				
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Accord Protection Center of well  1100 feet from the South  1100 feet	Unit Letter Section Township			1 '					
1100 feet from the South Ine and 1550 feet from the West Ine General Lyral Clert. Producting Promotion Debot Possion   Debot   Debot   Sain Dakota   Debot   Debot   Debot   Debot   Sain Dakota   Debot   Debot   Debot   Debot   Debot   Debot   Sain Dakota   Debot   D			32N	12W	J San Juan				
Description   Pool		•	nith 4	1550	at from the West	line			
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# TENNECO OIL COMPANY ROCKY MOUNTAIN DIVISION PENTHOUSE, 720 SOUTH COLORADO BOULEVARD DENVER, COLORADO 80222

#### DRILLING PROCEDURE

DATE: August 27, 1980

LEASE: Moore C

WELL NO.: 2E

FIELD: Basin Dakota

LOCATION: 1100' FSL, 1550' FWL

Sec 26, T32N, R12W

San Juan County, New Mexico

ELEVATION: 6331'

TOTAL DEPTH: 7550'

PROJECTED HORIZON: Dakota

APPROVED BY: Doug Fogle DATE: August 27, 1980

DATE: 9/22/80

CC: Administration
DSB Well File
Field File

## ESTIMATED FORMATION TOPS

Ojo		
Fruitland	2420'	Gas
Pictured Cliffs	2710'	Gas
Lewis	2870'	•
Cliff House	4360'	Gas
Menefee	4525'	Gas
Point Lookout	5152'	Gas
Mancos	5230'	
Gallup	6570'	Oil
Greenhorn	7233'	
Dakota	<b>73</b> 45'	Gas
T.D.	7550'	

### DRILLING, CASING AND CEMENTING PROGRAM.

- 1. MIRURT
- 2. Drill a  $12\frac{1}{4}$ " Hole to  $\pm$  250' with Gel-Water Mud.
- 3. RU and run 9 5/8" 36# K-55 ST&C casing to TD. Cement with Class B + 2% CaCl<sub>2</sub> in sufficient quantity to circulate cement to surface. WOC 12 hours.
- 4. -Screw on 9 5/8 8rd x 11-3000 casing head, NU BOPS. Pressure test casing, lines and blinds to 1000 PSI for 30 minutes. GIH with drill pipe and test pipe rams to 1000 PSI for 30 minutes. Record all tests on IADC Report.
- 5. Drill out using an 8 3/4" Bit. Drill with benex & water to 3370. Mud up prior to reaching Fruitland. Possible overpressure in P/C Fruitland.
- 6. RU and run 7" 23# K-55 ST&C casing to bottom. Cement with 50:50 Pozmix, 4% Gel; tailed with 150 sx Class B + 2% CaCl<sub>2</sub>. Circulate cement to surface. WOC 18 hours.
- 7. Set slips and cut-off casing. GIH with  $6\frac{1}{4}$ " Bit and  $3\frac{1}{2}$ " drilling assembly. Pressure test to 1000 PSI for 30 minutes. Record tests on IADC Report.
- 8. RU to Gas Drill. Drill to within 5' of shoe with water, unload hole with  $N_2$ . Drill a few feet of new formation and blow with gas until dusting.
- 9. Drill a  $6\frac{1}{4}$  hole to TD with gas. Log open hole as directed by G.E. Department.
- 10. Run 4½" 11.6 and 10.50# K-55 ST&C as designed as a liner. Have 150' overlap inside the 7" casing. Cement with 50:50 Pozmix, 4% Gel; tailed by 100 sx of Class B. Use a fluid loss additive in the lead slurry and circ cement to liner top.
- 11. Circulate out excess cement, LDDP and MORT.
- 12. Install tree and fence reserve pit.
- 13. If non-productive, P & A as required by the USGS.

#### Casing Program

Interval	Length	Size	Weight	Grade	Coupling STC
0-250	<u>Length</u> 250	9 5/8	<u>Weight</u> 36#	K-55	STC
0-3370	3370	7	<b>2</b> 3#	K-55	STC
7000-7550	550	4 1/2	11.6#	K-55	STC
3220-7000	3.780	4 1/2	10.5#	K-55	STC

#### HUB PROGRAM

0-250 Spud mud.

250-3370 Low solid, fresh water mud. (Nater and Benex.) Mud up prior to running casing.

3370-TD Gas.

#### E.ALUATION

Cores and DST's: None.

Deviation Surveys:

- 1. Survey surface hole at 100' intervals. Maximum allowable deviation at 500' is  $1-1/2^{\circ}$ .
- 3. From surface to total depth, deviation surveys must be taken every 500' or each trip, whethever is first. This may entail running the TOTCO on wireline. Record each survey on the IADC Drilling Report Sheet. Maximum allowable change in deviation is 1° per 100'. Maximum deviation allowable is 5°.

<u>Samples:</u> As requested by Wellsite Geological Engineer.

Logs: 1. GR/IND FDC-GR-Cal TO to MV

#### **BLOWDUT EQUIPMENT**

11" - 3000 BOP with rotating head to comply with TOC requirements as shown in BOE arrangement, Figure C. Preventers must be checked for operation every 24 hours with each check recorded on the IADC 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.

- 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

#### TENNECO OIL COMPANY - 10 POINT PLAN

- 1. The geological name of the surface formation: Naciemento
- 2 & 3. Estimated Formation Tops:

(See Attached Drilling Procedure)

4. Proposed Casing Program:

(See Attached Drilling Procedure)

- 5. Blowout Preventors:
  - Hydraulic double ram. One set of rams will be provided 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". BOP's, drills and tests will be recorded in the driller's log. BOP will be tested every 24 hours and recorded in IADC Log.
- 6. Mud Program: (Sufficient quantity of mud and weight material will be available on location).

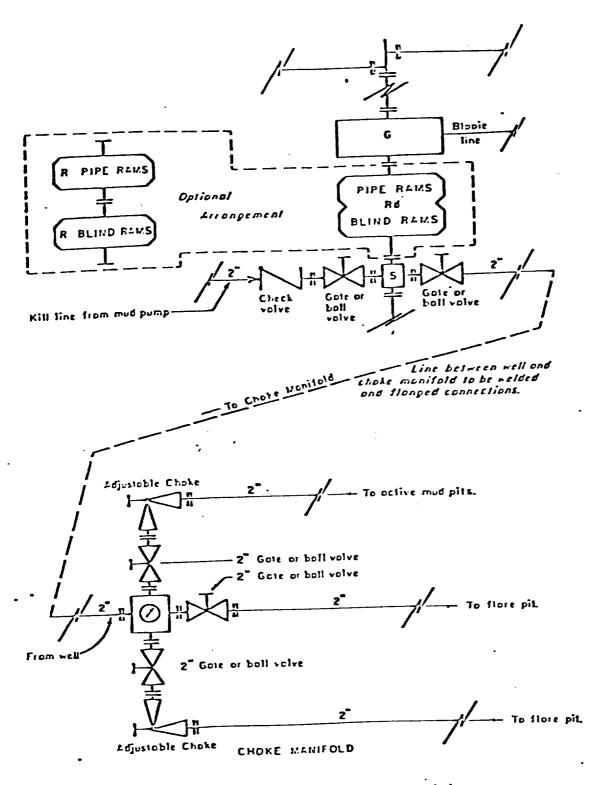
(See Attached Drilling Procedure.

- 7. 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.
  - d. 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 operations are in progress.
- 8. Coring, Logging, and Testing Program:

(See Attached Drilling Procedure)

- 9. No abnormal pressures, temperatures or potential hazards such as H<sub>2</sub>S are expected to be encountered.
- 10. The drilling of this well will start approximately ( June 1981 ) and continue for 10 to 12 days.

Your office will be notified of spudding in sufficient time to witness cementing operations. Immediate notice will be given on blowouts, fires, spills, and accidents involving life threatening injuries or loss of life. Prior approval will be obtained before appreciably changing drilling program or commencing plugging operations, plug back work, casing repair work or corrective cementing operations.



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

- Double rom type preventer with two sets of roms. Rd
- Single rom type preventer with one set of roms. R ·
- Drilling spool with side outlet connections for choke and kill lines. S
- Rototing head 150 psi working pressure minimum

## ARRANGEMENT C

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

EVI

J. MAGILL . 10-28-79

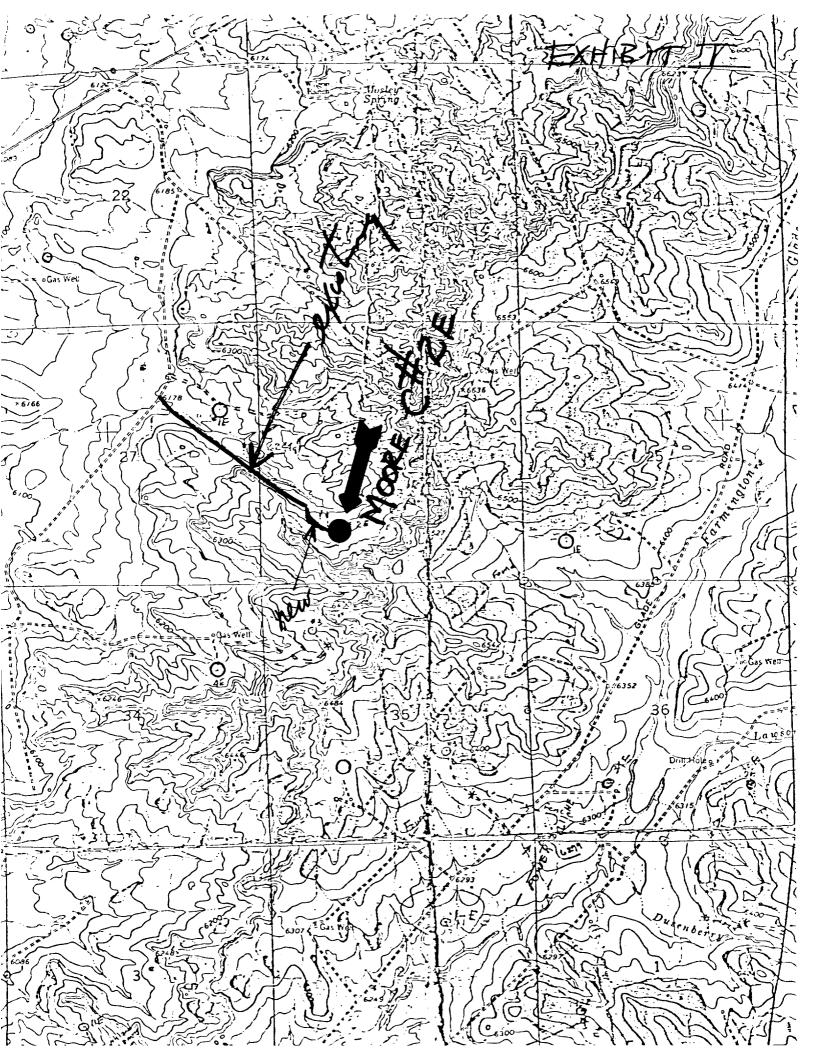
- 1. Existing Road Please refer to Map No. 1 which shows the existing roads. New roads which will be required have been marked on this map. All existing and new roads will be properly maintained during the duration of this project.
- 2. Planned Access Roads Please refer to Map No. 1. The grade of the 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 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.

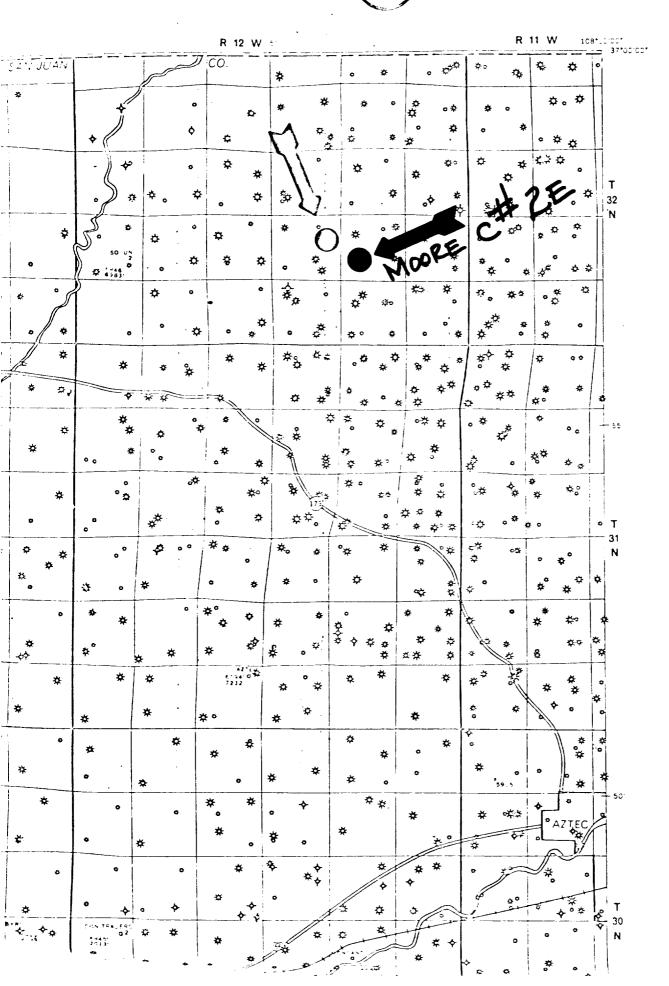
- 8. Ancillary Facilities No camps or airstrips will be associated with this project.
- 9. Wellsite Layout Please refer to the attached Plat No. 1.
- 10. Plans for Restoration of the Surface After completion of the proposed project
  the location will be cleaned and leveled. The location will be
  left 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 Relatively flat location. Sandy soil. Sage and other native plants and shrubs.
- 12. Operator's Representative See drilling prognosis.
- 13. Certification -

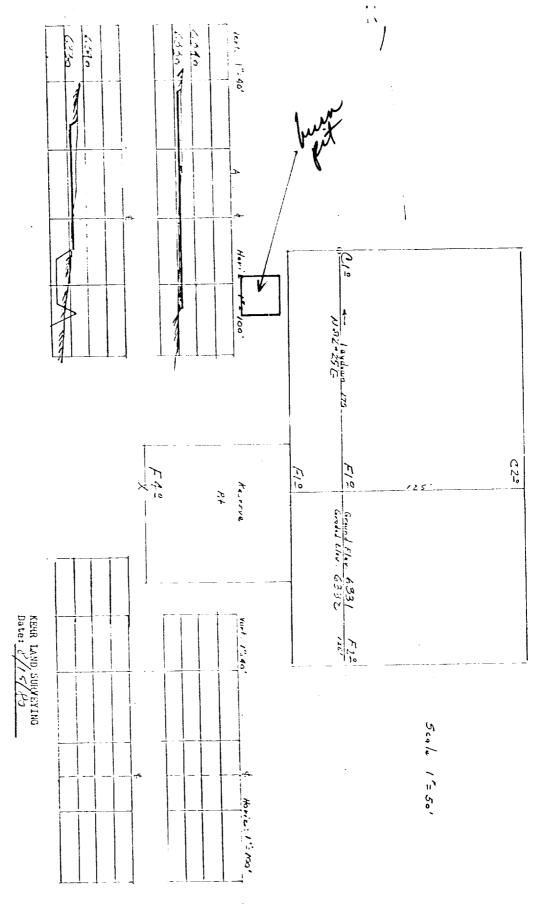
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements mad in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Tenneco Oil Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

R. A. Mishler

Sr. Production Analyst







TENNECO OIL COMPANY #ZE MOORE "C" 1100'FSL 1550'FWL Sec. 26-T32N-R1ZW SAN JUAN COUNTY, NEW MEXICO