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NEW MEXICO OIL CONSERVATION COMMISSION

30-045-24137

Form C-101
Revised 1-1-65

5A. Indicate Type of Lease
STATE ☐ FEE ☒

5. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		7. Unit Agreement Name
b. Type of Well OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		8. Farm or Lease Name San Juan Gravel "A"
2. Name of Operator Tenneco Oil Company		9. Well No. 1E
3. Address of Operator 720 South Colorado Boulevard, Denver, Colorado 80222		10. Field and Pool, or Wildcat Basin Dakota/PC
4. Location of Well UNIT LETTER H LOCATED 1540 FEET FROM THE North LINE AND 800 FEET FROM THE East LINE OF SEC. 21 TWP. 29N REC. 13W NMPM		12. County San Juan
19. Proposed Depth 5840		19A. Formation Dakota
20. Rotary or C.T. Rotary		
21. Elevations (Show whether DF, RT, etc.) 5288 GR	21A. Kind & Status Plug. Bond Blanket Bond	21B. Drilling Contractor 4 corners
22. Approx. Date Work will start 1/5/80		

23.

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
13 3/4"	9 5/8" New	36# K-55	250'±	Circulate to surface	
8 3/4"	7"	23# K-55	2000'±	Circulate to surface	
6 1/4"	4 1/2" New	10.5# - 11.6#	5840'±	Circulate through liner hange	

The Gas is Dedicated

APPROVED FOR THE STATE OF NEW MEXICO
BY THE COMMISSIONER OF THE OIL CONSERVATION COMMISSION

EXPIRES 3-27-80



IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Signed M. Lee Freeman Title Staff Production Analyst Date December 18, 1979

(This space for State Use)

APPROVED BY Frank S. Chavez TITLE DEPUTY OIL & GAS COMMISSIONER DATE DEC 21 1979

CONDITIONS OF APPROVAL, IF ANY:

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-107
Revised 10-1-78STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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

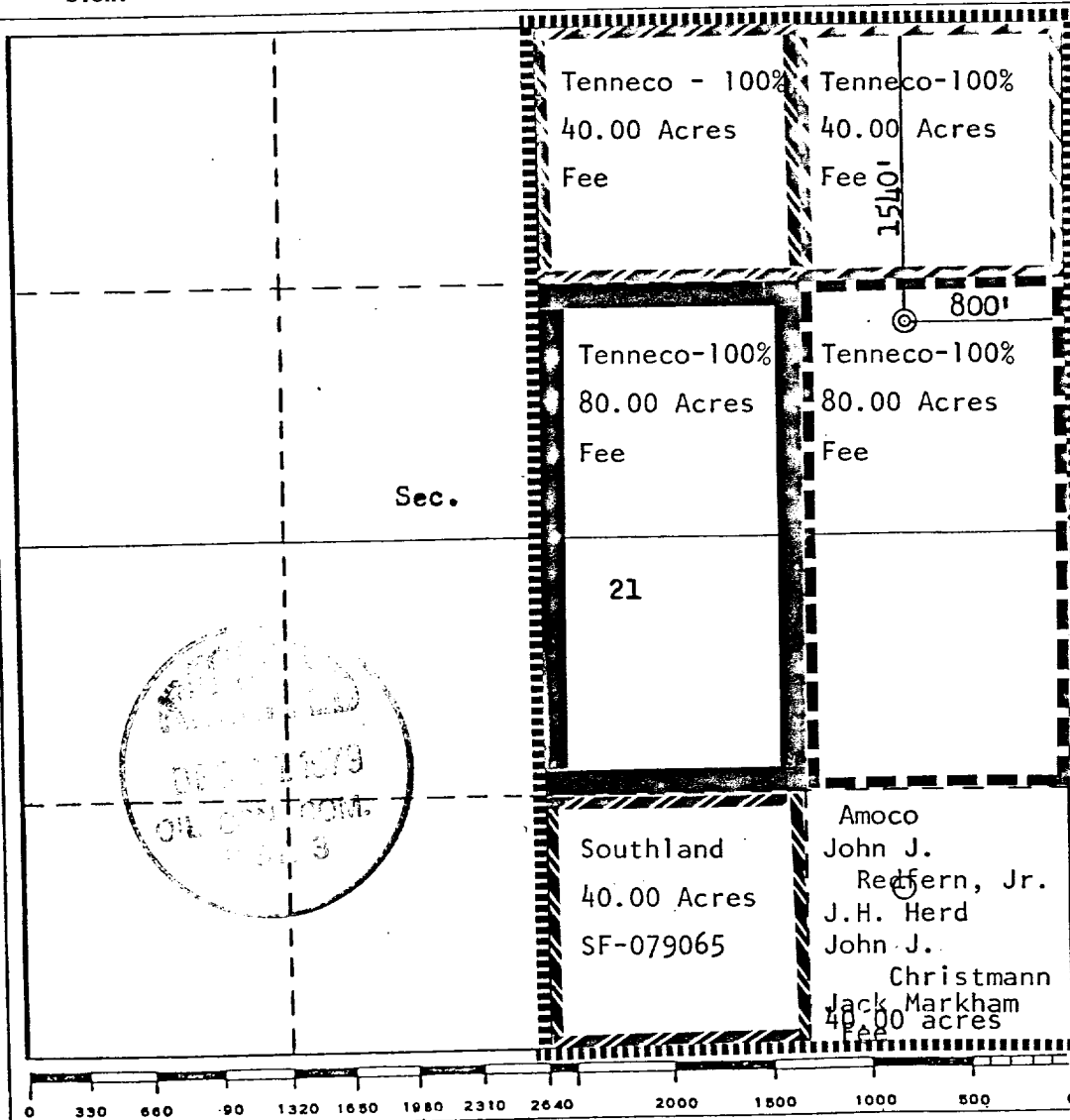
Operator TENNECO OIL COMPANY			Lease SAN JUAN GRAVEL "A"		Well No. 1-E
Unit Letter H	Section 21	Township 29N	Range 13W	County San Juan	
Actual Footage Location of Well: 1540 feet from the North line and 800 feet from the East line					
Ground Level Elev. 5288	Producing Formation Dakota / P.C.		Pool Basin Dakota / westkutz ext		Dedicated Acreage 320.00/160 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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?

☒ Yes ☐ No If answer is "yes," type of consolidation Communitization

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.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

M. Lee Freeman
Name

M. Lee Freeman

Position
Staff Production Analyst

Company
Tenneco

Date
12/18/79

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

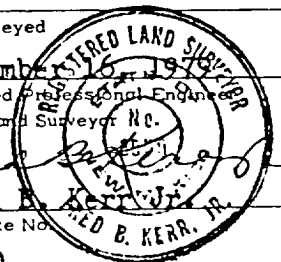
Date Surveyed

November 16, 1979

Registered Professional Engineer and/or Land Surveyor No.

Fred B. Kerr, Jr.

Certificate No. 3950



TENNECO OIL COMPANY
ROCKY MOUNTAIN DIVISION
PENTHOUSE, 720 SOUTH COLORADO BOULEVARD
DENVER, COLORADO 80222

DRILLING PROCEDURE

DATE: December 4, 1979

LEASE: San Juan Gravel "A"

WELL NO.: 1-E

LOCATION: 1540' FNL, 800' FEL
Sec. 21, T 29N, R 13W
San Juan County, New Mexico

FIELD: Basin Dakota
Blanco, Pictured Cliffs

ELEVATION: 5288 GR

TOTAL DEPTH: 5840'

PROJECTED HORIZON: Pictured Cliffs/Dakota Dual

SUBMITTED BY:

W. Barnes

DATE:

12/6/79

DSB:ms

Rev. 1, 12/4/79 - Replaces 9/13/79

CC: Administration

ESTIMATED FORMATION TOPS

Pictured Cliffs	1060'	Gas
Lewis	1250'	
Cliffhouse	2630'	Gas
Menefee	2830'	Gas
Point Lookout	3490'	Gas
Mancos	3850'	
Gallup	4780'	Gas/Oil
Greenhorn	5610'	Gas
Dakota	5660'	Gas
TD	5840'	

DRILLING, CASING, AND CEMENT PROGRAM

1. MIRU rotary tools. Drill Mouse hole and rat hole.
2. Drill 13 3/4" surface hole to \pm 250' with native solids mud.
3. Run 9 5/8" OD, 36#, K-55, ST&C casing to \pm 250'. Cement with sufficient volume to circulate cement to surface. Use 2% CaCl as an accelerator.
4. WOC. Nipple up BOE. Pressure test to 1000 psi 1/2 hour. Check pipe and blind rams and high pressure manifold. WOC 12 hours.
5. Drill 8 3/4" hole to \pm 2000'. Drill with low solids mud.
6. Run 7" OD, 23#, K-55, ST&C casing to \pm 2000'. Cement with sufficient volume to circulate cement to surface.
7. Set casing slips. Nipple up well head, BOE. Pressure test to 1500 psi 1/2 hour. Test pipe, blind rams 1/2 hour. WOC 18 hours.
8. Drill 6 1/4" hole to TD, \pm 5840'. Drill with low solids mud.
9. Run open hole logs as per logging schedule.
10. Lay down drill pipe.
11. Run 4 1/2" casing with TIW liner assembly.
12. Cement with sufficient volume to circulate cement to the liner top. Reverse out excess cement. LDDP. Flange up well head.
13. If non-productive, plug and abandon as per USGS requirements.
14. MORT.

CASING PROGRAM

0-250'	9 5/8", 36#, K-55, ST&C
0-2000'	7", 23#, K-55, ST&C
1850-5840'	4 1/2", 10.5, K-55, ST&C with TIW liner assembly

MUD PROGRAM

0-250' Native solids. Use sufficient volume to clean hole and run casing.
250-2000' Low solids. Use sufficient volume to clean hole.
2000-T.D. Low solids. Mud up prior to drilling Dakota.
9.0 ppg, 35/45 FV, 15cc WL.

EVALUATION

Cores and DST's: None.

Deviation Surveys:

1. Survey surface hole at 100' intervals. $1\frac{1}{2}^{\circ}$ maximum
2. Surface to total depth, the deviation surveys must be taken every 500' or on trips, whichever is first. This may entail running the TOTCO on wireline. Record on IADC Drilling Report Form. Maximum allowable deviation is 5° .

Samples:

0-900' - 30'
900-2000' - 10'
2000-4800' - 30'
4800-TD - 10'

Logs:

GR/Induction/Caliper

Cased hole - GR/Neutron/TDT

BLOWOUT EQUIPMENT

10" 900-series with a complete set of pipe and blind rams hydraulically operated with a hydraulic operated closing unit.

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 (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