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NEW MEXICO OIL CONSERVATION COMMISSION

30-045-55442
Form C-101
Revised 1-4-65

5A. Indicate Type of Lease	
STATE <input type="checkbox"/>	FEE <input checked="" type="checkbox"/>

5. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work		7. Unit Agreement Name	
b. Type of Well OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>		8. Farm or Lease Name Heaton "A"	
2. Name of Operator Tenneco Oil Company		9. Well No. 1	
3. Address of Operator 720 S. Colorado Blvd., Denver, CO 80222		10. Field and Pool, or Wildcat Basin Dakota	
4. Location of Well UNIT LETTER M LOCATED 1070' FEET FROM THE south LINE AND 1180' FEET FROM THE west LINE OF SEC. 30 TWP. 31N RGE. 11W NMPM		12. County San Juan	
19. Proposed Depth 7150'		19A. Formation Dakota	20. Rotary or C.T. Rotary
21. Elevations (Show whether DF, RT, etc.) 5934' G.L.	21A. Kind & Status Plug. Bond Blanket Bond	21B. Drilling Contractor Coleman	22. Approx. Date Work will start November 20, 1979

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"	36#	250'	Sufficient To Circulate To Surface	
8 3/4"	7"	23#	3000'	Sufficient To Circulate To Surface	

SEE ATTACHED DRILLING PROGNOSIS

Blowout preventors: Hydraulic 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 tests 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.

The drilling of this well will take approximately five days. The gas is not yet contracted.

EXPIRES 2-14-80

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. L. Freeman Title Staff Production Analyst Date 11/14/79

(This space for State Use)

APPROVED BY Frank S. Chang TITLE Assistant Secretary DATE 11/14/79

CONDITIONS OF APPROVAL, IF ANY:

**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.

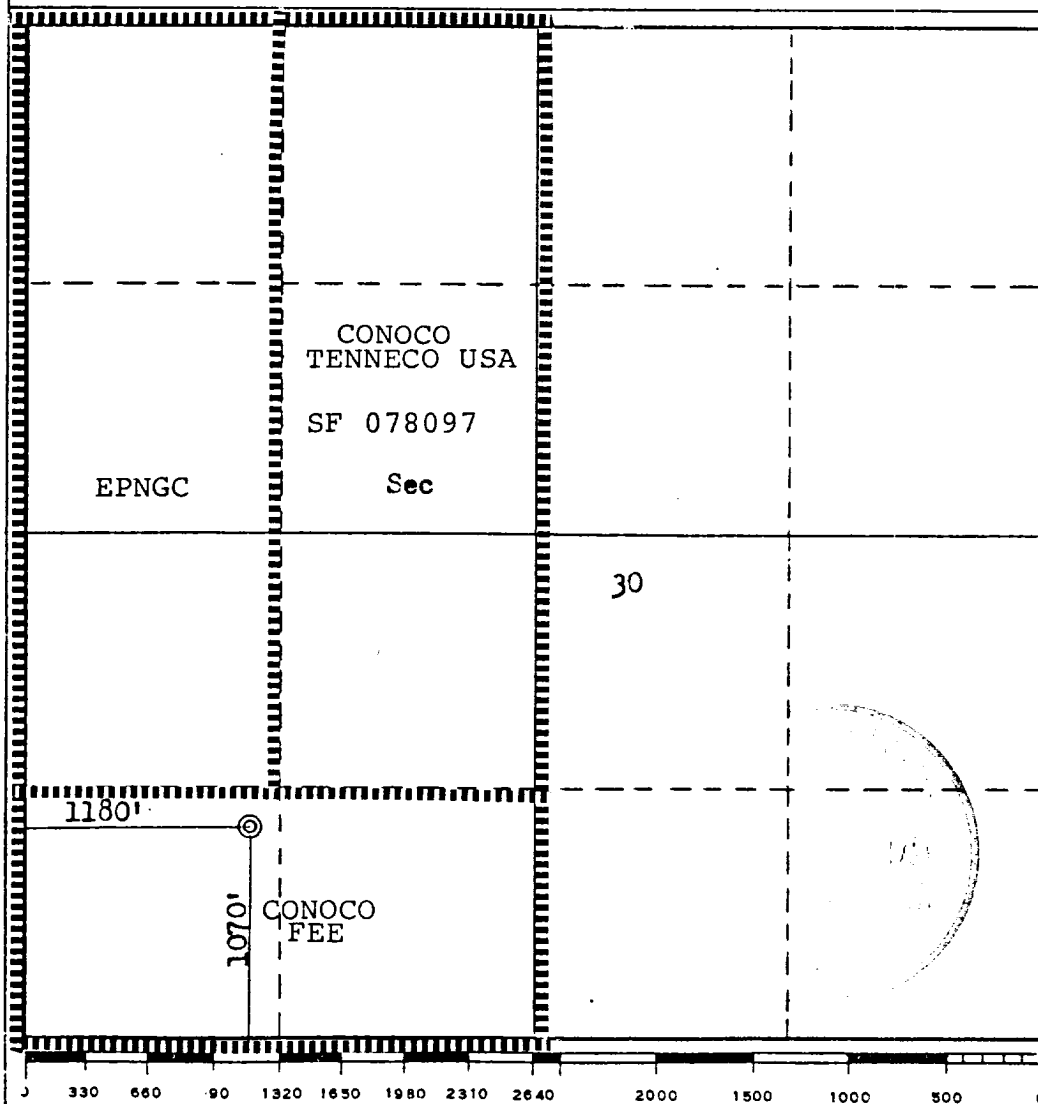
Operator TENNECO OIL COMPANY			Lease HEATON "A"		Well No. 1
Unit Letter M	Section 30	Township 31N	Range 11W	County San Juan	
Actual Footage Location of Well: 1070 feet from the South line and 1180 feet from the West line					
Ground Level Elev. 5934	Producing Formation Dakota		Pool Basin Dakota		Dedicated Acreage: 320 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure 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 in progress.

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.

Name J.A. Rush
Position Environmental Coordinator
Company Tenneco Oil Company
Date March 27, 1979

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 6, 1978
Registered Professional Engineer and/or Land Surveyor
Frederic B. Kery
Certificate No. 3950
State of NEW MEXICO

PROGNOSIS TO DRILL AND COMPLETE

DATE: March 1, 1979

WELL NO.: 1

FIELD: Basin Dakota

ESTIMATED ELEVATION: 5034'

ESTIMATED TOTAL DEPTH: 7150'

PROJECTED HORIZON: Dakota

DRILLING, CASING AND CEMENT PROGRAM:

- (1) Move in, rig up rotary tools.
- (2) Drill 13 3/4" hole to ± 250'. Run 9-5/8", 36#, K-55, ST&C casing. Cement with Class "B", 2% CaCl. Use sufficient volume to circulate cement to surface.
- (3) Wait on cement 12 hours. Nipple up hydraulic BOP. Pressure test casing and BOP to 800 psi for 1/2 hour.
- (4) If o.k., reduce hole to 8-3/4". Drill to 3000'.
- (5) Run 7", 23#, K-55, ST&C casing. Cement with class "B" cement. Use sufficient volume to circulate cement to surface.
- (6) Nipple up BOP, rig up to gas drill. Pressure test BOP and casing to 1500 psi. If o.k., blow down with Nowsco. Displace nitrogen with gas. Drill 6-1/4" hole to T.D.
- (7) Run open hole logs.
- (8) Run 4-1/2" liner from T.D. to 2850'. Have ± 150' overlap. Cement liner. Reverse out and TOH. Lay down drill pipe.
- (9) Nipple down BOP. Install well head.
- (10) Rig down and move out rotary tools.

DRILLING MUD PROGRAM:

0 - 250'	Spud. Native Solids. Use sufficient viscosity to clean hole and run casing.
250' - 3000'	Low solids.
3000' - T.D.	Gas.

CORING AND TESTING PROGRAM:

N/A

DEVIATION SURVEYS:

1. Survey surface hole at 100' intervals. Maximum allowable deviation at 250' is $\frac{1}{2}^{\circ}$.
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 1° per 100'.

SAMPLES:

0 - 30'	Surface to 3000'
30'	3000' to 6800'
10'	6800' to T.D.

WELL SURVEYS:

SP - GR Induction - SN - T.D. to Surface
GR - FDC - CNL - Caliper - T.D. to Base of Mesaverde

BOP: 10" X 900 Double Ram Hydril with closing unit.

Pipe rams X complete blind shut off rams.

PREVENTORS MUST BE CHECKED FOR OPERATION EVERY 24 HOURS, AND THE CHECK MUST BE RECORDED 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 AM and 8:00 AM.

1. 303-758-7130 (office) - Don Barnes
303-758-7287 - Don Barnes private line - Monday-Friday (before 7:45 AM)
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. Don Myers, Division Production Manager - 303-770-4437.