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NEW MEXICO OIL CONSERVATION COMMISSION

30-075-27042
Form C-101
Revised 1-4-65

5A. Indicate Type of Lease
STATE ☐ FEE ☒
5. State Oil & Gas Lease No.

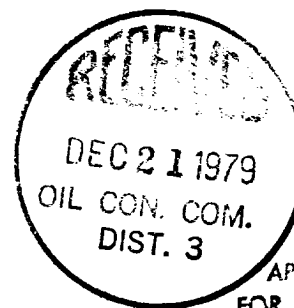
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

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"/>		8. Farm or Lease Name Thurston Com A
2. Name of Operator Tenneco Oil Company		9. Well No. 1
3. Address of Operator 720 South Colorado Boulevard, Denver, Colorado 80222		10. Field and Pool, or Wildcat Basin Dakota
4. Location of Well UNIT LETTER <u>A</u> LOCATED <u>790</u> FEET FROM THE <u>North</u> LINE AND <u>790</u> FEET FROM THE <u>East</u> LINE OF SEC. <u>31</u> TWP. <u>31N</u> RGE. <u>R11W</u> NMPM		12. County San Juan
19. Proposed Depth 6910		19A. Formation Dakota
20. Rotary or C.T. Rotary		
21. Elevations (Show whether DF, RT, etc.) 5810 GR	21A. Kind & Status Plug. Bond Blanket Bond	21B. Drilling Contractor 4 Corners
22. Approx. Date Work will start 3/19/80		

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	300±	Circulate to surface	
8 3/4"	7"	23# K-55	3000±	Circulate to surface	
6 1/2"	4 1/2" New	10.5# - 11.6#	6910±	Circulate through liner hange	



APPROVAL VALID
FOR 90 DAYS UNLESS
DRILLING COMMENCED,

EXPIRES 3-20-80

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 12/18/79

(This space for State Use)

APPROVED BY Frank S. Chang TITLE DEPUTY OIL & GAS INSPECTOR, DIST. #3 DATE DEC 21 1979

CONDITIONS OF APPROVAL, IF ANY:

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-102
Revised 10-1-78

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

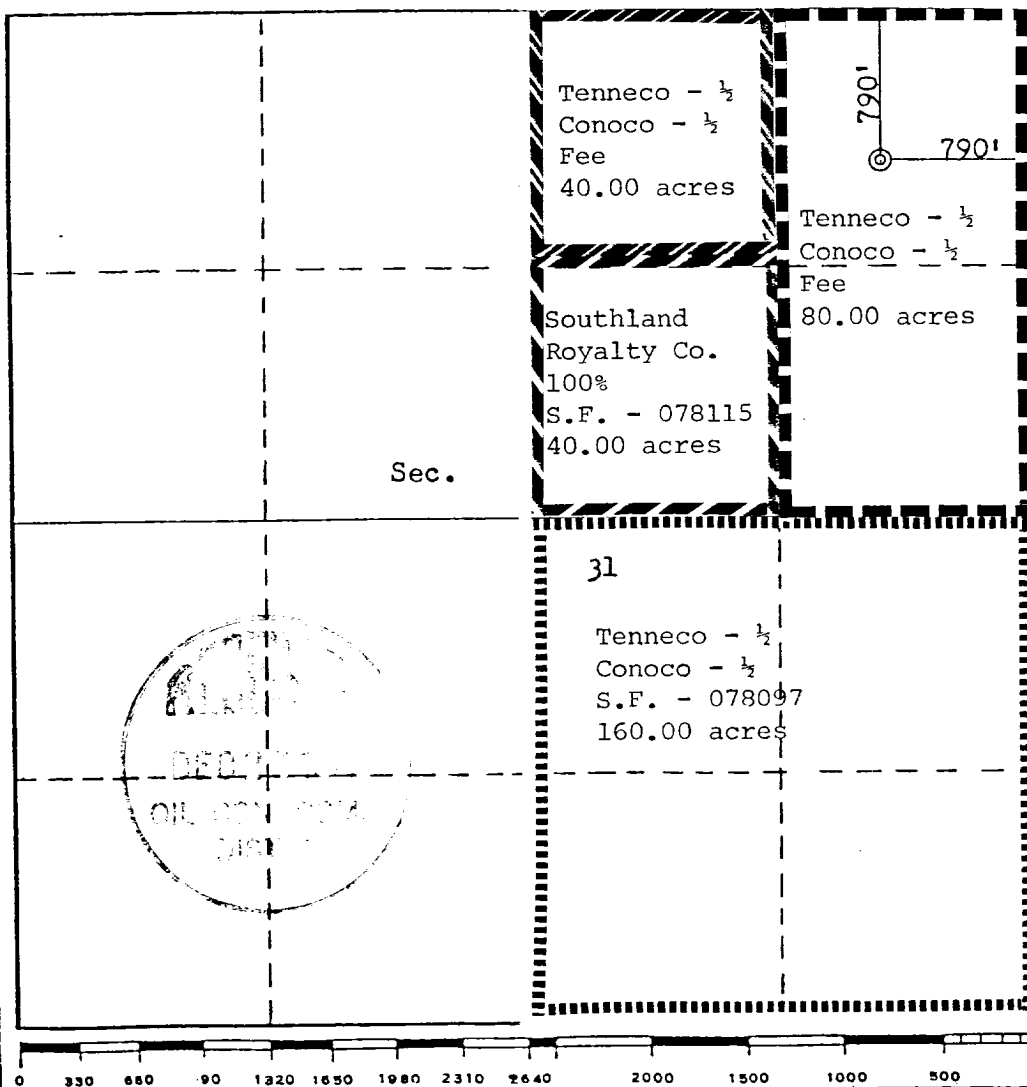
Operator TENNECO OIL COMPANY			Lease THURSTON COM A		Well No. 1
Unit Letter A	Section 31	Township 31N	Range 11W	County San Juan	
Actual Footage Location of Well: 790 feet from the North line and 790 feet from the East line					
Ground Level Elev. 5810	Producing Formation Dakota		Pool Basin Dakota		Dedicated 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

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 W. J. Luman
Position Staff Production Analyst
Company TENNECO OIL COMPANY
Date 11-20-79

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 August 16, 1979
Registered Professional Engineer and/or Land Surveyor
Fred B. Kerr Jr.
Certificate No. 3950

TENNECO OIL COMPANY

PROGNOSIS TO DRILL AND COMPLETE

<u>DIVISION:</u>	Rocky Mountain	<u>DATE:</u>	August 28, 1979
<u>LEASE:</u>	Thurston Com	<u>WELL NO.:</u>	A-1
<u>LOCATION:</u>	790' FNL, 790' FEL Sec. 31, T 31N, R11W San Juan County, New Mexico		
		<u>FIELD:</u>	Basin Dakota

ESTIMATED ELEVATION: 5,960' (Est. G.L.)

ESTIMATED TOTAL DEPTH: 6,910'

PROJECTED HORIZON: Dakota

DRILLING, CASING AND CEMENT PROGRAM:

- (1) MIRURT.
- (2) Drill a 13 3/4" hole to 300+. Run 9 5/8", 36#, K-55, ST&C casing to T.D. and cement to surface. Use 2% CaCl₂ 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 3000+. 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 in 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 pipe. Pressure test pipe rams to 1000 psi for 15 minutes.
- (6) Drill out of 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.D.
- (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 cement through liner hanger.
- (9) If nonproductive, plug and abandon as per U.S.G.S. requirements.

ESTIMATED FORMATION TOPS:

OJO Alamo	770'	Point Look Out	4,575'
Pictured Cliffs	2,430'	Mancos	4,830'
Lewis	2,580'	Gallup	6,050'
Cliffhouse	3,950'	Greenhorn	6,590'
Mesafee	4,150'	Dakota "A"	6,710'

DRILLING MUD PROGRAM:

0 - 300' Spud Mud

300' - T.D. 7" casing. Low solids fresh water mud. No. W. L. Control.

3,000'+ - T.D. Gas

CORING AND TESTING PROGRAM:

No cores or tests. Gauge natural flow from the Dakota.

DEVIATION SURVEYS:

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 1° per 100'.

SAMPLES:

As directed by wellsite geological engineer.

WELL SURVEYS:

GR/FDC/CNL caliper from T.D. to base of Mesaverde.

GR/SP/SN induction from T.D. to surface casing.

BOP: From 300' to T.D. as per U.S.G.S. requirements.

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 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. 303-795-0221 (home) - John Owen - if Don Barnes not available

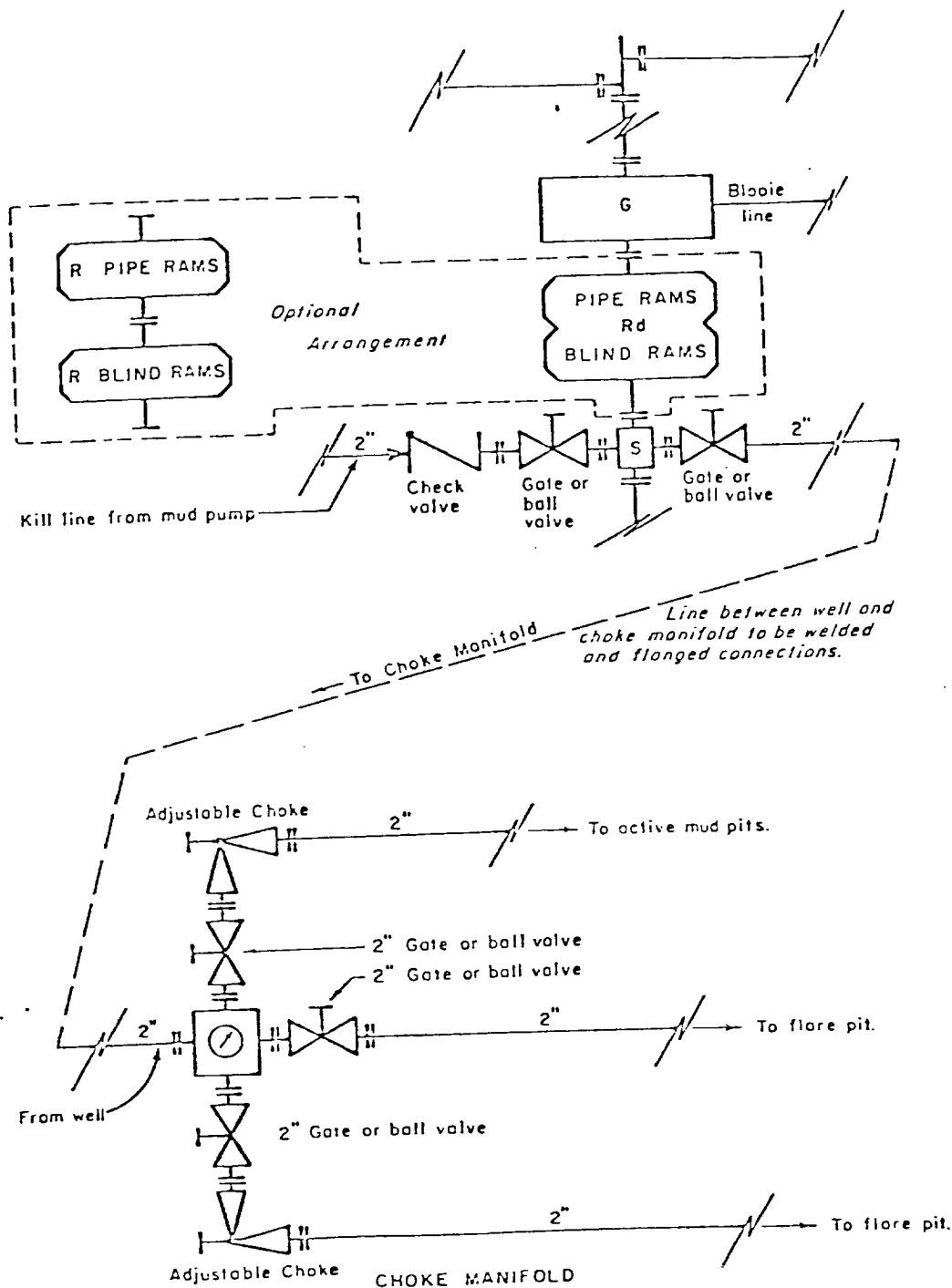
The yellow sheet of the IADC Report to be filled out completely, the original copy of the drilling time recorder, and copies of any invoices from this well signed and received for Tenneco Oil Company will be mailed daily to:

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 - 303-795-0221
3. Mr. Mike Lacey, Division Production Manager - 303-979-0509.



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

- Rd Double ram type preventer with two sets of rams.
- R Single ram type preventer with one set of rams.
- S Drilling spool with side outlet connections for choke and kill lines.
- G Rotating head 150 psi working pressure minimum

ARRANGEMENT C

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