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NEW MEXICO OIL CONSERVATION COMMISSION

30-045-2-35817
Form C-101
Revised 1-1-65

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 Sheets 'Com'	
2. Name of Operator Tenneco Oil Company		9. Well No. 1	
3. Address of Operator 720 S. Colorado Blvd., Denver, Colorado 80222		10. Field and Pool, or Wildcat Basin Dakota	
4. Location of Well UNIT LETTER B LOCATED 790 FEET FROM THE North LINE AND 1460 FEET FROM THE east LINE OF SEC. 29 TWP. 31 N RGE. 9 W NMPM		12. County San Juan	
19. Proposed Depth 7630		19A. Formation Dakota	
20. Rotary or C.T. Rotary		21. Elevations (Show whether DF, RT, etc.) 6260 G.L.	
21A. Kind & Status Plug. Bond		21B. Drilling Contractor Four Corners	
22. Approx. Date Work will start August 15, 1979			

23.

PROPOSED CASING AND CEMENT PROGRAM

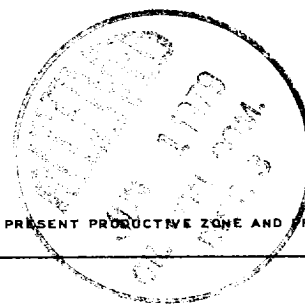
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
13 3/4"	9 5/8"	36#	250	250	
8 3/4"	7"	23#	3500	Suff. to circ.	to surface
6 1/4"	4 1/2"	See attached	7630	Suff. to circ.	to liner top

See attached drilling procedure and Form C-102.

APPROVAL VALID
FOR 90 DAYS UNLESS
DRILLING COMMENCED,

EXPIRES 8-30-79

gas is not dedicated



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 [Signature] Title Division Production Manager Date 5-30-79
(This space for State Use)

APPROVED BY [Signature] TITLE DEPUTY OIL & GAS INSPECTOR, DIST #1 DATE JUN 1 1979

CONDITIONS OF APPROVAL, IF ANY:

See attached drilling procedure and Form C-102

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.

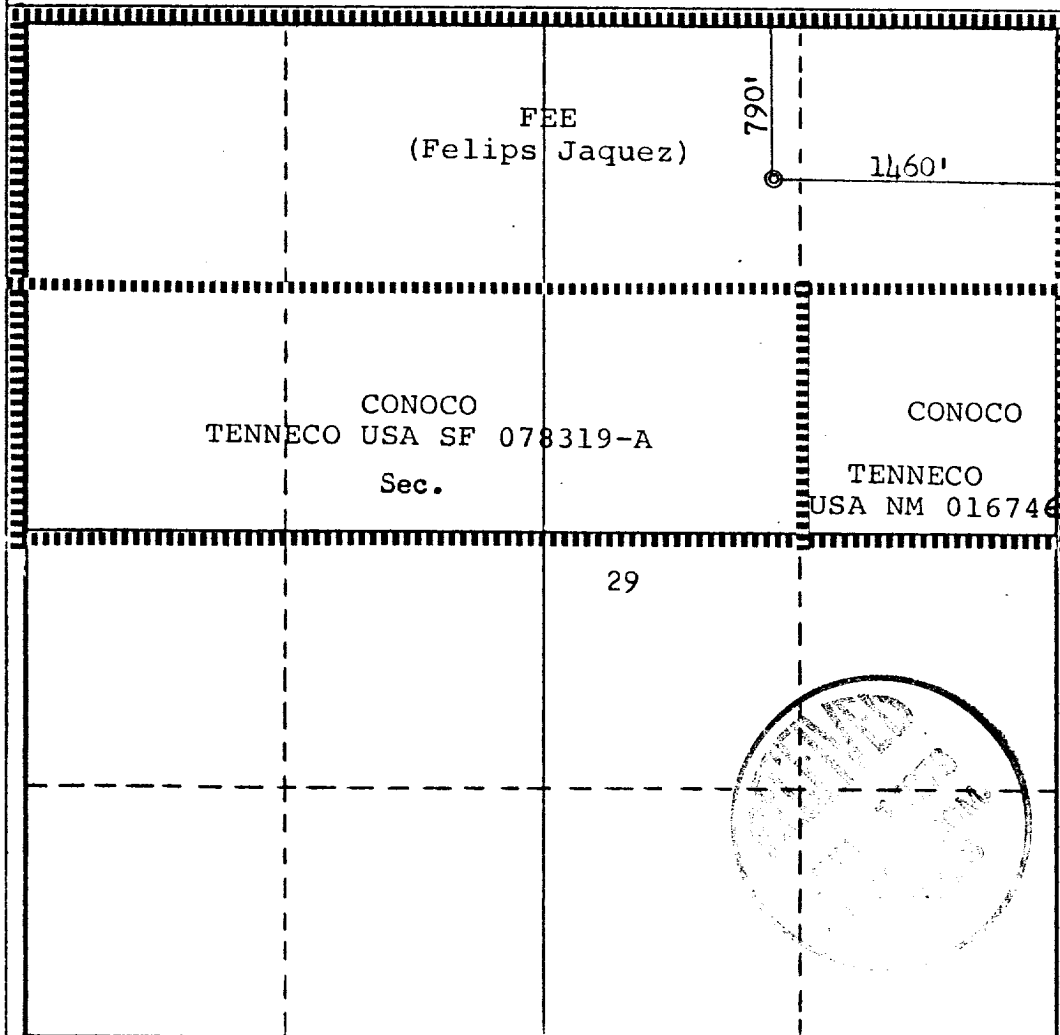
Operator TENNECO OIL COMPANY			Lease SHEETS COM		Well No. 1
Unit Letter B	Section 29	Township 31N	Range 9W	County SAN JUAN	
Actual Footage Location of Well: 790 feet from the North line and 1460 feet from the East line					
Ground Level Elev. 6260	Producing Formation Dakota	Pool Basin Dakota	Dedicated Acreage: 313.25 Acres		

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- 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 April 11, 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 March 20, 1979
Registered Professional Engineer and/or Land Surveyor
Fred B. Kerr Jr.
Certificate No. 3950

0 330 660 990 1320 1650 1980 2310 2640 2970 3300 3630 3960 4290 4620 4950 5280 5610 5940 6270 6600

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

DRILLING PROCEDURE

DATE: 4/6/79

LEASE: SHEETS COM

WELL NO.: 1

LOCATION: 790' FNL, 1460' FEL
Section 29, Township 31N, Range 9W
San Juan County, New Mexico

FIELD: Basin Dakota

ELEVATION: 6260' G.R. Estimated
6271' K.B.

TOTAL DEPTH: 7630'

PROJECTED HORIZON: Dakota

ESTIMATED FORMATION TOPS:

Pictured Cliffs	3060'
Lewis Shale	3160'
Cliffhouse	4513'
Mancos	4897'
Gallup	6554'
Greenhorn	7276'
Dakota A	7356'
Total Depth	7630'

DRILLING, CASING AND CEMENT PROGRAM

- (1) Move in, rig up rotary tools.
- (2) Drill a 13-3/4" hole to 250'.
- (3) Run 9-5/8" casing to 250'.
- (4) Cement with 250 SX of Class "B" with 2% CaCl.
- (5) Wait on cement a minimum of 12 hours. Nipple up blow out preventer and manifold with relief lines. Pressure test to 600 psi for 1/2 hour. Test pipe and blind rams.
- (6) Drill an 8-3/4" hole to 3500'.
- (7) Run 7", 23#, K-55, ST&C casing to 3500'.
- (8) Cement with sufficient volume to circulate cement to surface. Cement with 50-50 Pozmix and tail in with 150 SX of Class "B" cement with 2% CaCl.
- (9) Wait on cement a minimum of 18 hours. Pressure test to 1000 psi for 1/2 hour. Nipple up to gas drill.
- (10) Pick up 4-3/4" drill collars and 3-1/2" drill pipe. Drill cement guide shoe - 5' of open hole with water.
- (11) Displace water with nitrogen. Displace nitrogen with gas. Blow hole dry.
- (12) Drill a 6-1/4" hole with gas to total depth.
- (13) Run open hole logs.
- (14) Run 4-1/2" casing with casing liner to 7630'. Run a minimum of 150' overlap.
- (15) Cement with sufficient volume using Neat cement to circulate cement to liner top.
- (16) Reverse out excess cement. Lay down 3-1/2" drill pipe. Install well head.
- (17) MORT.

CASING PROGRAM

Surface	250' of 9-5/8", 36#, K-55, ST&C casing.
Intermediate	3500' of 7", 23#, K-55, ST&C casing.
Liner	3650' of 4-1/2", 10.5#, K-55, ST&C casing.
	630' of 4-1/2", 11.6#, K-55, ST&C casing.

MUD PROGRAM

0 - 250'	Native Solids. Have sufficient viscosity to gel chemical, to clean hole and run casing.
250' - 3500'	Low Solids. Gel chemical.
3500' to T.D.	Gas.

No cores or DST's are anticipated.

Deviation Surveys:

- (1) Survey surface hole at 100' intervals. Maximum allowable at surface 1 degree.
- (2) FROM SURFACE TO TOTAL DEPTH DEVIATION SURVEYS MUST BE TAKEN EVERY 500' OR EACH TRIP WHICH EVER 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 degree per 100'.

Samples:

10' Samples 3000' to 3500'. Ensure that we have penetrated the Lewis Shale 300'.

Surveys:

GR/Induction (T.D. to Intermediate Casing)
GR/FDC/CAL (T.D. to Base of Mesaverde)

BOP:

10" X 900 Series, Double Ram Hydraulic operated with Closing Unit and 40 gallon Accumulator.

10" X 900 Series Rotating Head, 7" Blowie Line, High Pressure Manifold with separate valves and discharge lines.

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.