Form 3160-3 (November 1983) (formerly 9-331C)

UNITED STATES DEPARTMENT OF THE INTERIOR

SUBMIT IN TPT LICATE. (Other instru is on reverse slue)

Form approved.
Budget Bureau No. 1004-0136
Expires August 31, 1985

5. LEASE DESIGNATION AND BERIAL NO.

NM 16139

APPLICATION	BUREAU OF LAND MANAGEMENT						
	N FOR PERMIT TO	D DRILL, DE	EPEN, OR PLUG E	BACK	6. IF INDIAN, ALLOTT	TEE OR TRIBE NAME	
	ILL X	DEEPEN [PLUG BA	ск 🗌	7. UNIT AGREEMENT	NAME	
b. TYPE OF WELL OIL G	OTHER		SINGLE X MULTIP	PLE	8. FARM OR LEASE !	AMB	
WELL WELL NAME OF OPERATOR	VELL A OTHER		ZONE A ZONE		Pitchfork 34	Federal Com	
Enron Oil &	Gas Company				9. WELL NO.		
ADDRESS OF OPERATOR		· ·			2		
P. O. Box 22	Pitchfork Ra	ana Da					
LOCATION OF WELL (F	Pitchfork Ra						
660' FSL &	1980' FEL				AND SURVEY OR	AREA	
At proposed prod. zot 660' FSL &	me . 102∩' FFI				Sec. 34, T24	S. R34F	
	AND DIRECTION FROM NEARE	ST TOWN OR POST	OFFICE.		12. COUNTY OR PARI		
24 miles wes					Lea	NM	
D. DISTANCE FROM PROP	POSED*		16. NO. OF ACRES IN LEASE		OF ACRES ASSIGNED		
PROPERTY OR LEASE	LINE, FT. DOU		640	10 1	320		
S. DISTANCE FROM PRO	POSED LOCATION®		19. PROPOSED DEPTH	20. кот	ARY OR CABLE TOOLS		
TO NEAREST WELL, I OR APPLIED FOR, ON TE	DRILLING. COMPLETED, HIS LEASE, FT. 29	952'	15,800'		Rotary		
I. ELEVATIONS (Show w	hether DF, RT, GR, etc.)					WORK WILL START	
3377.7' GR_					5/19/	89	
3.	P	ROPOSED CASIN	G AND CEMENTING PROGRA	AM			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOO	SETTING DEPTH	_	QUANTITY OF CE		
17-1/2"	13-3/8"	48#	650'	_	sacks Circu		
12-1/4"	9-5/8"	36#_	5200 ') sacks Circu	ated	
8-1/2"	7"	26#	13250'	f .) sacks		
J ., _				1 1 1 1 1			
6-1/8"	5-1/2" Liner	20#	141001) sacks		
•	5-1/2" Liner 3-1/2" Liner	20# 12.95#) sacks		
6-1/8" 4-3/4" BOP - Instal 13,250 use st	3-1/2" Liner	12.95# ith 3000# c o 10,000# c	15800' ap. and 3000# ann ap. with 5000# an	100 ular pr) sacks reventor. At	THE CHIVED	
BOP - Install 13,250 use standard proposal is to reventer program. If a Betty (This space for Fee	3-1/2" Liner 11 at 5200 feet w 0 feet increase t tandard surface c ge is dedicated. BE PROPOSED PROGRAM: If p	12.95# ith 3000# coontrolled B	15800' ap. and 3000# ann ap. with 5000# an	ular production present production present production produced by the contract of the contract	oductive zone and propered and true vertical d	Desert new productive epths. Give bloword	
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RECEIVED

May 18 mag

OCO HOSES OFFICE

State of New Mexico ergy, Minerals and Natural Resources Departr

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

<u>DISTRICT I</u> P.O. Box 1980, Hobbs, NM 88240

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

		All Utel	MICES INUSCOE II	UII 816 UUISI U		1 810 500001			
Operator				Loase				Well No.	
ENRON	OIL & GAS	COMPANY		PITCH	FORK 34	FEDERAL	COM.	2	
Unit Letter	Section	Township		Range			County		
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Ground level Elev.	Produ	cing Formation	1		-I. D	l-			_
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	Yes	No If and	swer is "yes" type	of consolidation					
		ners and tract descript	tions which have s	ctually been con	l battabilos	Jac reverse side	of		
this form	if neccessary.	ed to the well until all	internets have been	n consolidated (hy communicati	tization unitiza	tion forcet-root	ing or otherwise	·
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Pitchfork 34 Federal Com. =2 Sec. 34, T24S, R34E Lea County, NM

\square 1.	In	the	event	dr	illin	g	opera	ation	s a	re not	suc	cessful	l, it	is
	the	e pre	eferen	ce (of th	e _	surfa	ice o	wnei	r that	the	lease	roads	
	be	reta	ained	for	use	bу	the	surf	ace	owner				

2. In the event drilling operations are not successful, it is the preference of the surface owner that the lease roads be removed.

Other Rehabilitation Requirements: (If any)

Date: 3/13/89
Surface Owner

APPLICATION FOR PERMIT TO DRILL Pitchfork 34 Federal Com. #2

1. The geologic surface formation is Quaternary

2. The estimated tops of important geologic markers are:

1.	Rutsler	1125'	6.	Strawn	13700 '
2.	Delaware Lime	5420'	7.	Atoka Reef	13850'
3.	Delaware Sand	5448'	8	Atoka Sand	13995 '
4.	Bone Spring Lime	9260'	9.	Sinatra Sand	14750'±
5.	Wolfcamp	12340'	10.		

3. Depths at which oil, water, or gas bearing formations are expected to be encountered.

Wolfcamp Limes 12340 to 13700 feet Strawn Lime 13700 to 13850 feet Atoka 13850 to 14750 feet Morrow "D" Sd 14750 to 15800 feet

4. Brief description of testing, logging, and coring programs.

Drill stem test as necessary Gamma Ray: Surface to TD

Sonic and/or Neutron Density: Top_Delaware Sand to TD

Mud logger: Top Delaware Sand to TD

No coring anticipated.

5. Any anticipated abnormal pressures or temperatures expected? Any potential hazards - H2S?

Possible abnormal pressures from Wolfcamp through the Atoka.

No H₂S zones expected.

ė.

6. (A) Pressure control equipment to be used.

1-900 Series rotating blowout preventer & stripper

1-1500 series Hydrill annular blowout preventer

1-10,000# WP Cameron Iron Works double type "U" blowout preventer with pipe rams & blind rams

1-10,000# CIW single type "U" blowout preventer with pipe rams

BOP's can be activated from a remote control closing unit. Drillstring safety valve will be installed at 13-3/8" casing point.

(B) Pressure ratings (or API series).

900 Series = 3000# WP 1500 Series - 5000# WP 10,000 Series - 10,000# WP

(C) Testing procedures and frequency.

BOP's will be tested at installation point as indicated on Application for Permit to Drill.

(D) Schematic Diagram.

Attached. Exhibit "C"

7. Mud Program

Type and Characteristics

0 - 650 - Native

650 -5200' - 10.0 ppg brinewater

5200 -13250' - 9.2 ppg brinewater

13250 -15800' - Drill out with brine and possibly switch to oil-base mud, if needed.

Quantities and types of weighting material to be maintained.

1000 sacks Barite on location.

ENRON OIL & GAS COMPANY

MULTI-POINT SURFACE USE AND OPERATIONS PLAN

Pitchfork 34 Federal Com., Well No. 2 Sec. 34, T-24-S, R-34-E Lea County, New Mexico NM 16138

This plan is submitted with the Application for Permit to Drill the above-described well. The purpose of the plan is to describe the location of the proposed well, the proposed construction activities and operations, the magnitude of necessary surface disturbance involved and the procedures to be followed in rehabilitating the surface after completion of the operation so that a complete appraisal can be made of the environmental effects associated with the operation.

1. EXISTING ROADS:

Exhibit "A" depicts the location of the proposed well as staked.

2. PLANNED ACCESS ROADS:

- A. Length and width: Initial new road required will be 20 feet wide and 600 feet in length (on Federal lands) and 20 feet wide and 800 feet in length (on State trust lands). The center line of the proposed new road from the beginning to the well has been staked and flagged with stakes being visible from any one to the
- B. Surfacing Material: Six inches of caliche, water compacted, and graded.
- C. Maximum grade: 3 percent.
- D. Turnouts: None required.
- E. Drainage Design: The new road will have a drop of 6 inches from the center line on each side.
- F. Culverts: None required.
- G. Cuts and Fills: None required.
- H. A cattleguard will be installed at the fence line as shown on exhibit B.

3. LOCATION OF EXISTING WELLS:

The closest existing wells are Enron's Page 3 Com. #2 which is approximately 1800 feet to the southwest, and Enron's Pitchfork 34 Federal Com. #1 located 2952 feet to the northwest. (See attached Exhibit "B").

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

There are no existing production facilities.

If production is encountered, a temporary facility will be established on the drill pad, and if warranted, a production facility would be built at a later date in the immediate area of the drill pad location. If the well is productive, the flowline would also be located on the drill pad site and no additional disturbance will occur.

5. LOCATION AND TYPE OF WATER SUPPLY:

Water for drilling will be purchased from commercial sources and transported to the well site over the existing and proposed roads as shown on Exhibits "A" & "B".

6. SOURCE OF CONSTRUCTION MATERIALS:

Caliche for surfacing the road and the well pad will be obtained from a commercial pit belonging to Mr. Rubert Madera, and located in Section 26, T24S, R34E. Caliche will be transported by truck to the well site.

7. METHODS OF HANDLING WASTE DISPOSAL:

- A. Drill cuttings will be disposed of in the drilling pits.
- B. Drilling fluids will be allowed to evaporate in the drilling pits until pits are dry.
- C. Water produced during tests will be disposed of in the drilling pits. Oil produced during tests will be in test tanks until sold.
- D. Current laws and regulations pertaining to the disposal of human waste will be complied with.
- E. Trash, waste paper, garbage and junk will be buried in a separate trash pit and covered with a minimum of 24 inches of dirt. All waste material will be contained to prevent scattering by the wind. Location of trash pits is shown on Exhibit "D".
- F. All trash and debris will be buried or removed from the wellsite within 30 days after finishing drilling and/or completion of operations.

8. ANCILLARY FACILITIES:

None required.

9. WELLSITE LAYOUT:

- A. Exhibit "D" shows the relative location and dimensions of the wellpad, mud pits, reserve pit, trash pit, and location of major rig components.
- B. Only minor levelling of the wellsite will be required. No significant cuts and fills will be necessary.
- C. The reserve pit will be plastic lined.
- D. The pad and pit area has been staked and flagged.

10. PLANS FOR RESTORATION OF THE SURFACE:

- A. After completion of drilling and/or completion operations, all equipment and other material not needed for operations will be removed. Pits will be filled and locations cleaned of all trash and junk to leave the wellsite in an aesthetically pleasing condition as possible.
- B. Any unguarded pits containing fluid will be fenced until they are filled.
- C. After abandonment of the well, surface restoration will be in accordance with the agreement with the surface owner. Pits will be filled and location will be cleaned. The pit area and well pad will be ripped to promote revegetation. Access roads will be removed as per agreement with the surface owner.

11. OTHER INFORMATION:

- A. Topography Land surface is undulatory and duney, sloping gently toward the Southwest. Slope is 0.65°
- B. Soil Soil conditions are variable. Generally soil deposits are made up of a coarse sandy clay underlain by caliche loams.
- C. Flora and Fauna The vegetation cover is moderate and is primarily a mixed grassland-scrub consisting of mesquite, four wing saltbush, and other perennial native grasses. Wildlife in the area is that typical of semi-arid desert land and includes coyotes, rabbits, rodents, reptiles and some birds.
- D. Ponds and streams There are no rivers, streams, lakes or ponds in the immediate area.
- E. Residences and other structures. None. There are no water wells within the immediate vicinity.

F. Archaeological, Historical and Cultural Sites.

One Isolated Manifestation consisting of scattered fire-cracked caliche as per NMAS-1989-09-A.

- G. Land Use Grazing and hunting in season.
- H. Surface Ownership Federally owned.

12. OPERATORS REPRESENTATIVE:

The field representative responsible for assuring compliance with the approved surface use and operations plas is as follows:

Mr. G. M. Spears 1500 Sandalwood Odessa, Texas 79760 Phones: Business: (915) 686-3720 Home: (915) 367-6763

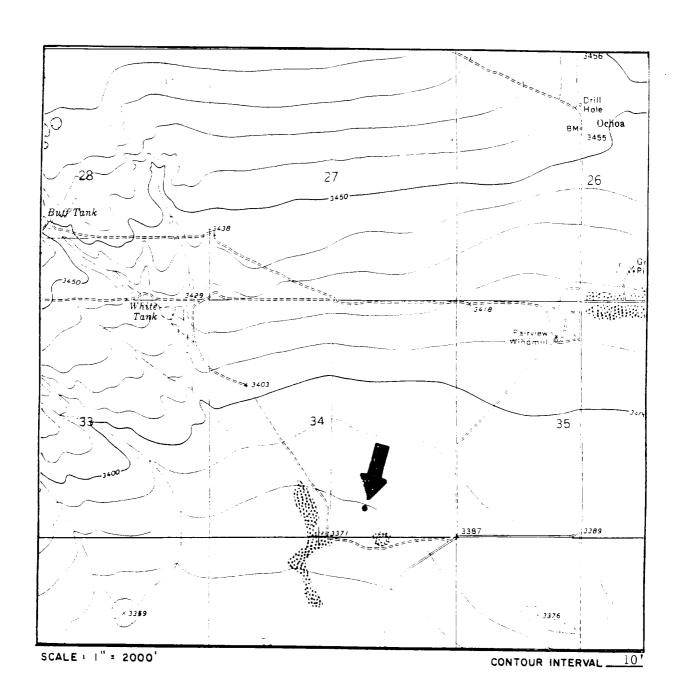
13. CERTIFICATION:

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 made 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 Enron Oil & Gas Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

Ray L. Ingle

Operations Manager

LCCATION VERIFICATION MAP



SEC. 34 TWR. 24-South RNG. 34-East SURVEY N.M.P.M.

COUNTY Lea STATE New Mexico DESCRIPTION 660' FSL & 1980' FEL ELEVATION 3377.7'

OPERATOR Enron 0il & Gas Co.

LEASE Pitchfork 34 Federal Com. #2

EXHIBIT "A"

JOHN WEST & ASSOCIATES

Midland, Texas

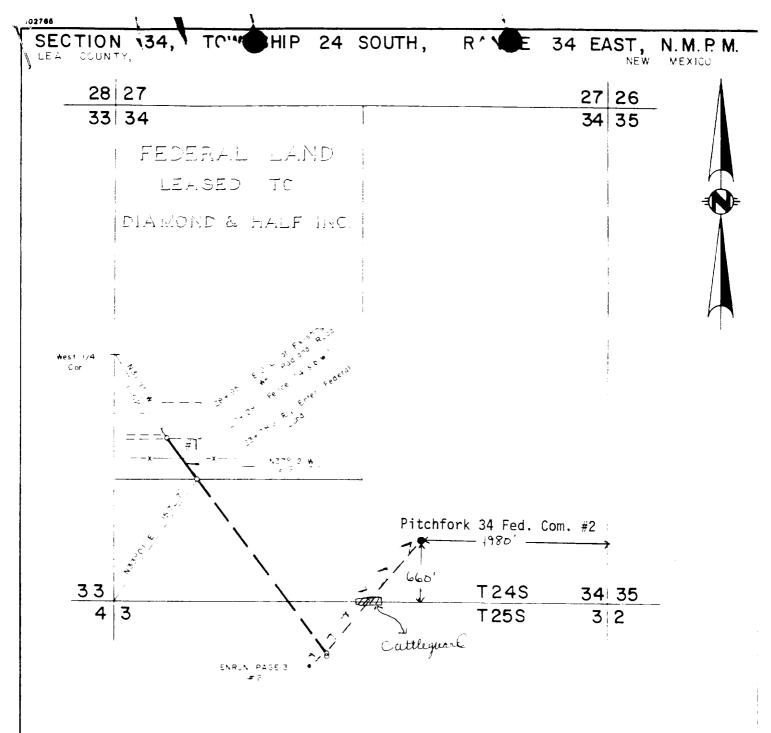




EXHIBIT "B"

HEREBY CERTIFY THAT THIS PLAT WAS MADE FROM NOTES TAKEN IN THE FIELD IN A BONA FIDE SURVEY MADE UNDER MY SUPERVISION, AND THAT THE SAME IS TRUE AND CORRECT TO THE BEST OF MY KNOWL-EDGE AND BELIEF

N.M. P.E. & L.S. No. 676 TEXAS R.P.S. No. 1138 No. 1138

CONALD J. EIDSON, NM LS. No. 3239 TEXAS R PS. No. 1883

ENRON

Proposed road crossing Federal Land in Section 34, Township 24 South, Range 34 East, N.M.P.M., Beaucounty, New Mexico

JOHN W. WEST ENGINEERING COMPANY CONSULTING ENGINEERS HOBBS, NEW MEXICO

Scale : 1"=1000" Drawn By: C. Bass Date: 05/02/87 Ck. of 1 Sheet Sheets

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"34" Federal Com FIELD: LEASE: Pitchfork #34 Federal Com

Fe 3000 WP ROTATING BLOWOUT PREVENTER + STRIPPER FLCW LIKE SCOO UP ANNULAR BLOWOUT PREVENTER M,000 MP BLOWART
PREVENTER W BUND RAMS O SOO WE BICHOUT - ADJUSTABLE CHOKE PREYENTER MY PIPE RANS FRESS OPR'D KILL LINE CHECK VALVE CASING SPOOL TYPE CIVI BOTTOM 10" 5,000 ACCOTABLE CHOKE CASING STOOL TYPE CLW SIZE TOP 10" 5000 # 3000€ "SI H:1175 BRACEN HEAD ITTE CIW SIZE 12 3000 W W P EXHIBIT "C"

