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NEW MEXICO OIL CONSERVATION COMMISSION

API\* 30-001-20002  
DOG

Form C-101  
Revised 1-1-65

5A. Indicate Type of Lease
STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
5. State Oil & Gas Lease No.
Lg 4513

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work			7. Unit Agreement Name		
b. Type of Well DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>			8. Farm or Lease Name		
2. Name of Operator			State		
Edward Mike Davis d/b/a Tiger Oil Company			9. Well No.		
3. Address of Operator			1		
1920 Colorado State Bank Building, Denver, Colorado 80202			10. Field and Pool, or Wildcat		
4. Location of Well			Wildcat		
UNIT LETTER <u>H</u> LOCATED <u>660</u> FEET FROM THE <u>East</u> LINE			12. County		
AND <u>1980</u> FEET FROM THE <u>North</u> LINE OF SEC. <u>8</u> TWP. <u>4 N</u> RGE. <u>17 W</u> NMPM			Valencia		
19. Proposed Depth		19A. Formation		20. Rotary or C.T.	
4600'		Pre-Cambrian		Rotary	
21. Elevations (Show whether DE, RT, etc.)		21A. Kind & Status Plug. Bond		21B. Drilling Contractor	
				Tiger Drilling Company	
				22. Approx. Date Work will start	

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12 1/2	9 5/8	36#	200'	104	surface

It is proposed to drill a well to a T.D. of 4,600' which will penetrate 50' into Pre-Cambrian. If shows are encountered cores and/or DST's will be taken. If completion is attempted, 5 1/2" casg. will be set thru the lowest producing horizon and cemented. Casing will be perforated and well put on production as data indicate.

OIL CONSERVATION COMMISSION TO BE NOTIFIED  
WITHIN 24 HOURS OF BEGINNING OPERATIONS

APPROVAL VALID  
FOR 90 DAYS UNLESS  
DRILLING COMMENCED  
EXPIRES 12-26-77

ABOVE SPACE DESCRIBE PROPOSED PROGRAM; IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTION 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 Charles W. Lee Title Geologist Date 9/12/1977

(This space for State Use)

APPROVED BY Carl Ulsoy TITLE SENIOR PETROLEUM GEOLOGIST DATE 9/27/77

CONDITIONS OF APPROVAL, IF ANY:

CONDUCT AND BACK LOGS FOR  
NEW MEXICO OIL CONSERVATION COMMISSION, SOCORRO  
AT 1000 FOOT INTERVALS

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.

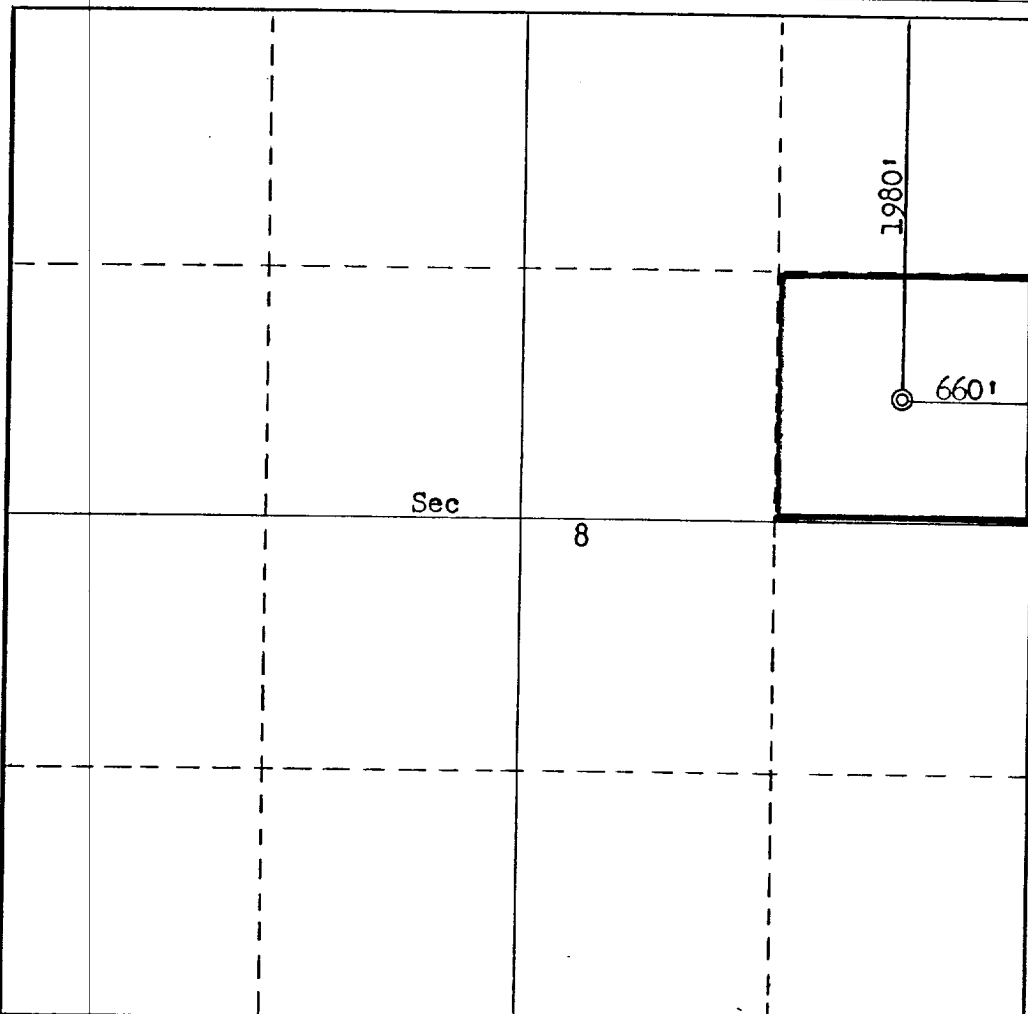
Operator <b>Tiger Oil Company</b>			Lease <b>State</b>		Well No. <b>1</b>
Unit Letter <b>H</b>	Section <b>8</b>	Township <b>4N</b>	Range <b>17W</b>	County <b>Valencia</b>	
Actual Footage Location of Well: <b>1980</b> feet from the <b>North</b> line and <b>660</b> feet from the <b>East</b> line					
Ground Level Elev. <b>6781</b>	Producing Formation		Pool	Dedicated Acreage: <b>40</b> 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 \_\_\_\_\_

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.

*Charles V. Lee*

Name

Charles V. Lee

Position

Geologist

Company

Tiger Oil Company

Date

September 12, 1977

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

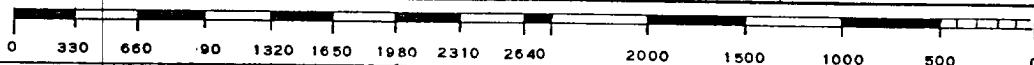
September 7, 1977

Registered Professional Engineer  
and/or Land Surveyor

*Fred B. Kerr Jr.*

Certificate No.

3950



TENTATIVE DRILLING PROGNOSIS

FRENCH'S ARROYO PROSPECT

Tiger Oil Company

8-1 State

Sec. 8, Township 4 North - Range 17 West

660' FEL and 1980' FNL SE $\frac{1}{4}$ NE $\frac{1}{4}$

Valencia County, New Mexico

ELEVATION:

Est. Ground - 6,800'

Est. Kb - 6,810'

FORMATION TOPS:

Mesa Verde	-	surface	
Mancos	-	620'	(527')
Dakota	-	1,145'	(94')
Chinle	-	1,240'	(760')
San Andres	-	2,000'	(350')
Glorieta ss.	-	2,350'	(213')
Yeso	-	2,560'	(1,397')
Abo	-	3,960'	(590')
Pre-Cambrian	-	4,550'	

TOTAL DEPTH:

4,600'

LOGGING PROGRAM:

2 man logging unit - under surface casing to TD

DIL - under surface casing to TD.

CNL - Density - thru selected intervals.

POSSIBLE DST:

Dakota

San Andres

Yeso

Abo

CORES:

Possible 50 - 100' core in San Andres if shows warrant.

HOLE SIZE:

12 1/4" hole to 200'

8 3/4" hole 200' to TD.

CASING PROGRAM:

9 5/8" surface casing at 200'.

5 1/2" production casing thru deepest producing horizon.

MUD PROGRAM:

Gel and chemical mud from under surface casing to TD. Well is a rank wildcat therefore excellent samples at all times are imperative. Water drilling is faster but samples are poor and hole conditions for testing are poor.

A low water loss (-6 cc) gel and chemical mud is recommended.

Considerable gypsum and anhydrite can be expected in the upper Yeso from about 2,560 - 3,200'. Anhydrite sections as thick as 30' were logged in the Huckleberry #1 Federal well in Sec. 11, Township 2 North - Range 16 West about 12 miles SE of the subject well.

No lost circulation was reported in either the Cleary Pet. #1 Fed. in Sec. 6, Township 3 North - Range 16 West, 4 miles SE or the Huckleberry #1 Federal.

DRILLING TIME:

30 days

Cleary Petroleum #1 Federal, Sec. 6, Township 3 North - Range 16 West spudded 11/10/63 and completed 11/23/63 (13 days). 3 cores were cut (64'). Well spudded Mesa Verde and TD in Glorieta.

Cities Service Oil Company #1 Zuni-A, Sec. 5, Township 9 North - Range 18 West about 24 miles north of subject location spudded Chinle and drilled to Pre-Cambrian at 2,620' in 15 days.

The combination of the two wells penetrates the section to be encountered in the subject well. Based on these data a drilling time of 30 days is predicted.

The Huckleberry #1 Federal penetrated the entire section but no drilling time is available.

CROOKED HOLE PROBLEMS:

Surface dips range from 3 - 5%. There is no drilling history available, but in light of low dip little trouble should be anticipated.

WATER SUPPLY:

There is no surface water in the area. There are several windmills which are used for stock water so it is probable that a shallow well drilled on the well site should provide an adequate drilling water supply.

Charles V. Lee  
Geologist