

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☒GAS
WELL ☐OTHER ☐SINGLE
ZONE ☐MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Wolfson Oil Company

3. ADDRESS OF OPERATOR

3206 Republic Park Tower Dallas, Texas 75201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

2310 fr ML and 210 fr EL

At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

16 miles North of Carrock

10. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

16. NO. OF ACRES IN LEASE

240

19. PROPOSED DEPTH

4400

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

1413 GL

22. APPROX. DATE WORK WILL START*

As soon as possible

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12	8 5/8	24	1730	550
7 7/8	4 1/2	20.5	4400	150

"APPROVAL TO FLARE GRANTED
WHILE DRILLING AND TESTING."SEE ATTACHED FOR
CONDITIONS OF APPROVALUnless Drilling Operations have
Commenced, this drilling approval
Expires 8-10-78

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. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED J. J. FreedmanTITLE Prod. Dir.DATE 4-21-78

(This space for Federal or State office use)

PERMIT NO. _____

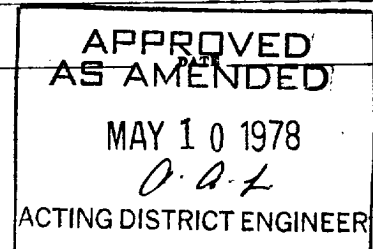
APPROVAL DATE _____

APPROVED BY _____

TITLE _____

CONDITIONS OF APPROVAL, IF ANY: _____

*See Instructions On Reverse Side



•

W. W. WOODMAN
TRUSTEES TRUST COMPANY
BOSTON, MASS.
1911

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION AT

Form C-102
 Supersedes C-128
 Effective 1-1-65

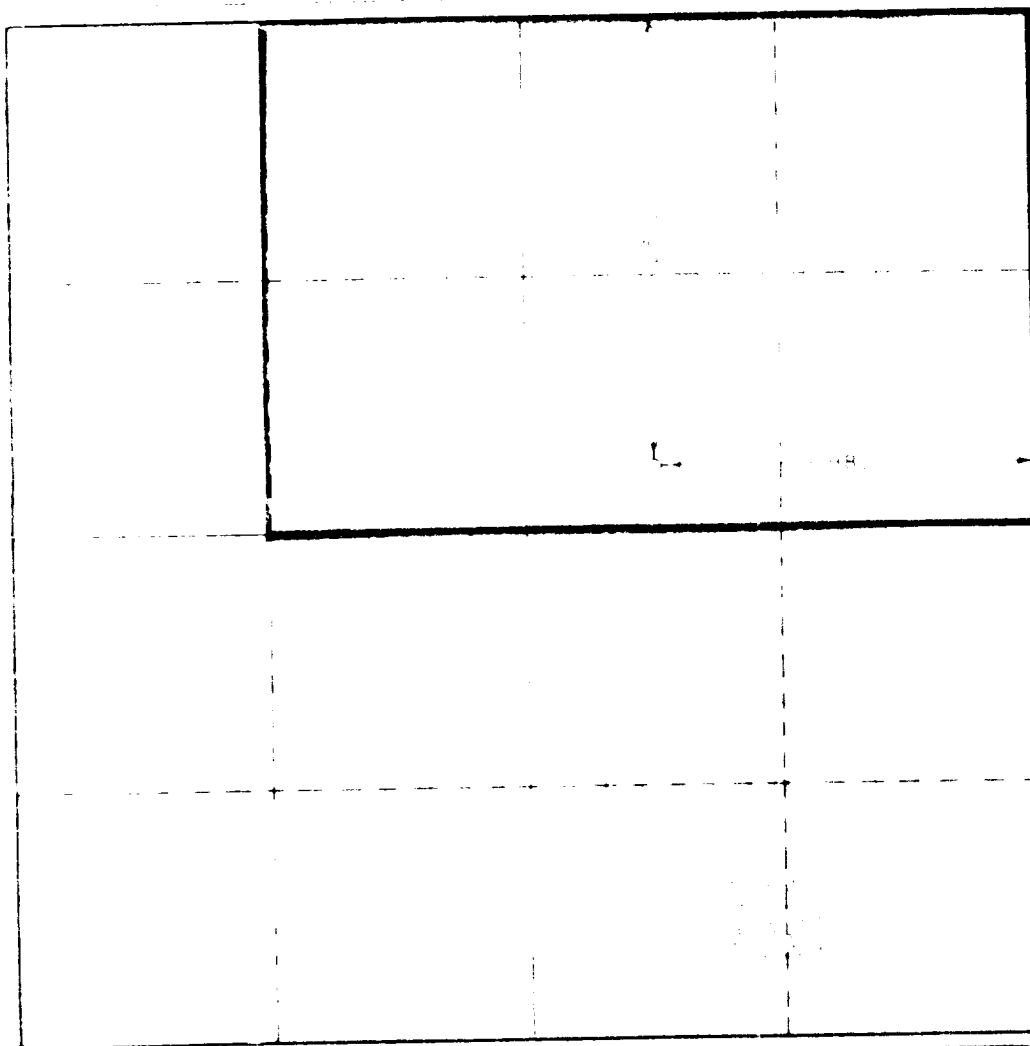
All distances must be from the outer boundaries of the Section

Wolfson Oil Co.		Mountain Fed.		Well No. 1
Section G	30	7 South	32 East	Roosevelt
2310	feet from the North line and	1980	feet from the East line	40
4412.7	San Andres	Tenchaw	UNDESIGNATED	

- 1 Outline the acreage dedicated to the subject well by colored pencil or hatchure 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.

H. G. Freedman

H. G. Freedman

Prod. Engr.

Wolfson Oil Co.

4-24-78

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.

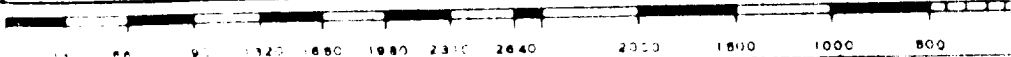
4/6/78

Date Surveyed

Registered Professional Engineer
 and Land Surveyor

John W. West

Certificate No. **John W. West 676**
Ronald J. Eidson 3239



DRILLING PROGNOSIS

I. Well Identification:

Lease Name: Mountain-Federal
Well No.: 1
Location: 1980' FEL & 2310' FNL Section 30, T-7-S, R-32-E

County: Roosevelt
State: New Mexico
Elevations: 4413'

II. Drilling Objective:

Zone: San Andres
Total Depth: 4400'
Pool Name: Tomahawk
Productive Interval: 4250'-4350'

III. Formation Tops:

<u>Zone</u>	<u>Tops</u>		<u>Gross Interval Drilled</u>	<u>Probable Fluid Production</u>
	<u>Drilling Depth</u>	<u>Subsea Depth</u>		
	ESTIMATED:			
<u>Rustler</u>	<u>1700'</u>	<u></u>	<u></u>	<u></u>
<u>Yates</u>	<u>2200'</u>	<u></u>	<u></u>	<u></u>
<u>San Andres</u>	<u>3341'</u>	<u></u>	<u></u>	<u>Hydrocarbons</u>
<u>P-1</u>	<u>4050'</u>	<u></u>	<u></u>	<u></u>
<u>P-2</u>	<u>4130'</u>	<u></u>	<u></u>	<u></u>
<u>P-3</u>	<u>4240'</u>	<u></u>	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>	<u></u>	<u></u>
<u>TOTAL DEPTH</u>	<u>4400'</u>	<u></u>	<u></u>	<u></u>

IV. Hole Size:

<u>Hole</u>	<u>Bit Size</u>	<u>T.D.</u>	<u>Gross Interval</u>
Conductor:			
Surface:	<u>12 "</u>	<u>1750'</u>	<u>1750'</u>
Production:	<u>7-7/8 "</u>	<u>4400'</u>	<u>2650'</u>

V. Casing Program:

A. Casing Design

<u>String</u>	<u>Casing Size</u>		<u>Grade</u>	<u>Threads</u>	<u>Amount</u>	<u>Cond.</u>
	<u>O.D.</u>	<u>Wt.</u>				
Conductor:						
Surface:	<u>8-5/8"</u>	<u>24#</u>	<u>A</u>	<u>8 RD</u>	<u>1750'</u>	<u>New</u>
Production:	<u>4-1/2"</u>	<u>10.5#</u>	<u>J-55</u>	<u>8 RD</u>	<u>4400'</u>	<u>New</u>

B. Float Equipment:

Surface Casing: 8-5/8" guide shoe w/3 centralizers.

Production Casing: 4-1/2" float shoe w/6 centralizers.

C. Centralizers:

Surface Casing: _____

Production Casing: _____

D. Wellhead Equipment:

VI. Mud Program:

A. Surface Hole:

Use fresh water gel with sufficient viscosity to make hole.

B. Production Hole:

Allow mud to become salt saturated; add starch and brine gel to
lower water loss to 20 cc and viscosity to 40 cc.

VII. Cementing Program:

A. Surface Pipe:

Cement pipe w/550 sacks total cement; 400 Halliburton lite and
150 neat cement; circulate cement.

B. Production String:

Cement long string w/175 sacks 50-50 Posmik, 2% gel and mix 10% salt.
Pump 30 bbls. water ahead to remove filter cake.

VIII. Formation Evaluation:

A. Drilling Rate:

1. Kept by Geolograph.

2. _____

B. Well Cutting Samples:

Samples shall be kept from 3000' to T.D. and reviewed by geologist.

C. Mud Logging: None

D. Drill-Stem Testing: None

E. Coring: _____

F. Well Logging: _____

Open-Hole Logs

<u>Log</u>	<u>Interval</u>
<u>Run Porosity Log</u>	_____
<u>Run Deep Lateral Investigation Log</u>	_____
<u>Run Short Lateral Investigation Log</u>	_____
<u>Run Gamma-Ray Log</u>	_____

Cased-Hole Logs

<u>Log</u>	<u>Interval</u>
<u>Run Gamma-Ray Log</u>	_____
<u>Run Collar Locator Log</u>	_____
_____	_____
_____	_____

Log Distribution

<u>Company</u>	<u>No. of Copies</u>	
	<u>Field Prints</u>	<u>Final Prints</u>
_____	_____	_____

Company

.. of Copies

Field Prints

Final Prints

IX. Blowout Preventer System:

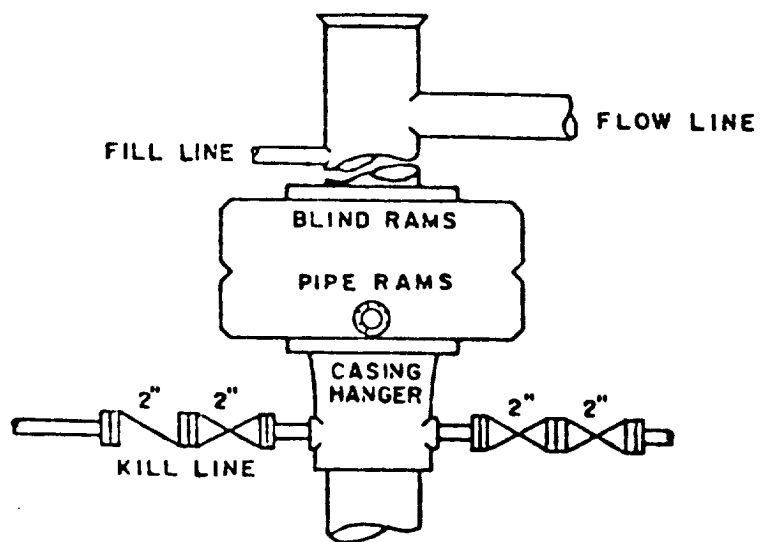
An 8-5/8" Regan Toros Hydraulic preventer will be utilized.

X. Hazardous Zones:

Field history has indicated no such zones will be encountered.

XI. Duration of Operations:

Estimated to be 30 days, depending on availability of service
equipment.



U. S. Geological Survey

HOBBS DISTRICT

Wolfson Oil Company
No. 1 Mountain Federal
SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 30-7S-32E
Lea County, N.M.

Above Data Required on Well Sign

CONDITIONS OF APPROVAL

1. Drilling operations authorized are subject to compliance with the attached General Requirements for Drilling Operations on Federal Oil and Gas Leases, dated January 1, 1977.
2. Notify this office (telephone (505) 393-3612) when the well is to be spudded and in sufficient time for a representative to witness all cementing operations. Attached are names and telephone numbers of Geological Survey and Bureau of Land Management personnel who are available for consultation during construction, drilling, completion, and rehabilitation activities.
3. Immediate notice is required of all blowouts, fires, spills, and accidents involving life-threatening injuries or loss of life.
4. Secure prior approval of the District Engineer for variance from the approved drilling program and before commencing plugging operations, plug-back work, casing repair work, corrective cementing operations, or suspending drilling operations indefinitely.
5. Blowout prevention equipment is to be installed, tested, and in working order before drilling below the surface casing and shall be maintained ready for use until drilling operations are completed.
6. Operations must be in compliance with the provisions of the landowner agreement concerning surface disturbance and surface restoration.
7. For the protection of livestock and wildlife all pits containing toxic liquids will be fenced and covered with a fine mesh netting (i.e., Hardware Cloth) with openings being 1/2 inch or less.