

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

5. LEASE DESIGNATION AND SERIAL NO.  
1881.6

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Mountain-Federal

9. WELL NO.  
1

10. FIELD AND POOL, OR CATCHMENT  
Tomahawk (San Andres)

11. SEC., T., R., M., OR B.L.  
AND SURVEY OR AREA  
Sec. 30, T-7-S R-32-E

12. COUNTY OR PARISH  
Roosevelt

13. STATE  
New Mexico

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 NL and ~~210~~ 1980 fr EL  
At proposed prod. zone

RECEIVED  
APR 25 1978  
U. S. GEOLOGICAL SURVEY  
HOBBES, NEW MEXICO

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
16 miles North of Caprock

10. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)

16. NO. OF ACRES IN LEASE  
21.0

17. NO. OF ACRES ASSIGNED TO THIS WELL  
40

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH  
4400

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

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12	8 5/8	21	1730	550
7 7/8	4 1/2	9.5	4400	150

"APPROVAL TO FLARE GRANTED WHILE DRILLING AND TESTING."

SEE ATTACHED FOR  
CONDITIONS OF APPROVAL

Unless 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. Freedman TITLE 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:

APPROVED  
AS AMENDED  
MAY 10 1978  
O. A. L.  
ACTING DISTRICT ENGINEER

•

W. W. WOODSON  
W. W. WOODSON  
W. W. WOODSON  
W. W. WOODSON  
W. W. WOODSON

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

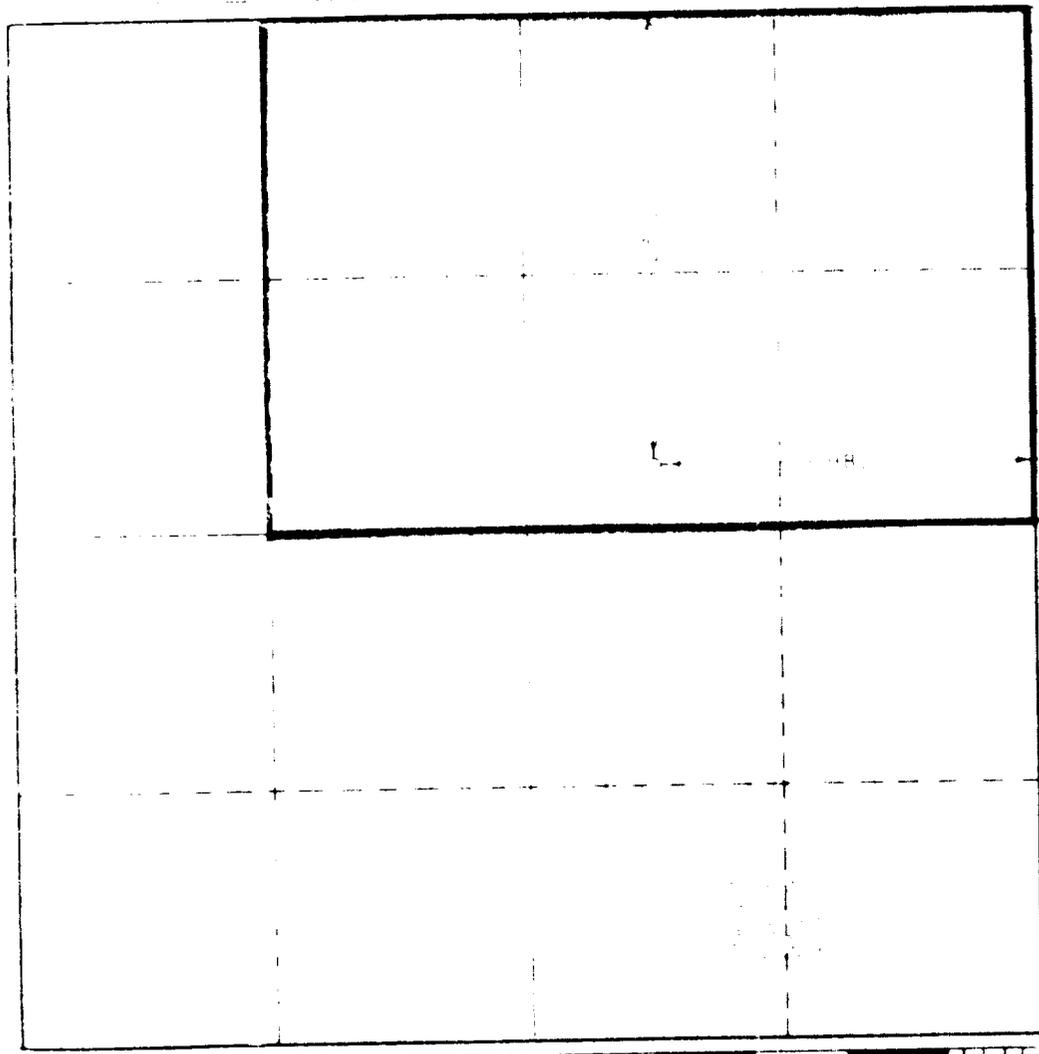
Wolfson Oil Co.		Mountain Fed.		Well No. 1
Section G	Section 30	Range 7 South	Meridian 32 East	County Roosevelt
2310	feet from the North	line and	1980	feet from the East
4412.7	San Andrus	Trenchard	UNDESIGNATED	40

- 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 \_\_\_\_\_

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

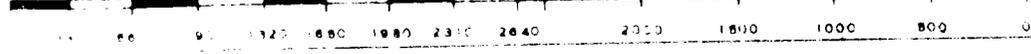
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

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:

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

IV. Hole Size:

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

V. Casing Program:

A. Casing Design

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

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.

\_\_\_\_\_  
\_\_\_\_\_

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VII. Cementing Program:

A. Surface Pipe:

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

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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.

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- C. Mud Logging: None
- D. Drill-Stem Testing: None
- E. Coring: \_\_\_\_\_
- F. Well Logging: \_\_\_\_\_

Open-Hole Logs

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Log	Interval	
Run Porosity Log	_____	_____
Run Deep Lateral Investigation Log	_____	_____
Run Short Lateral Investigation Log	_____	_____
Run Gamma-Ray Log	_____	_____

Cased-Hole Logs

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Log	Interval	
Run Gamma-Ray Log	_____	_____
Run Collar Locator Log	_____	_____
_____	_____	_____
_____	_____	_____

Log Distribution

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Company	No. of Copies	
	Field Prints	Final Prints
_____	_____	_____



X. Hazardous Zones:

Field history has indicated no such zones will be encountered.

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XI. Duration of Operations:

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

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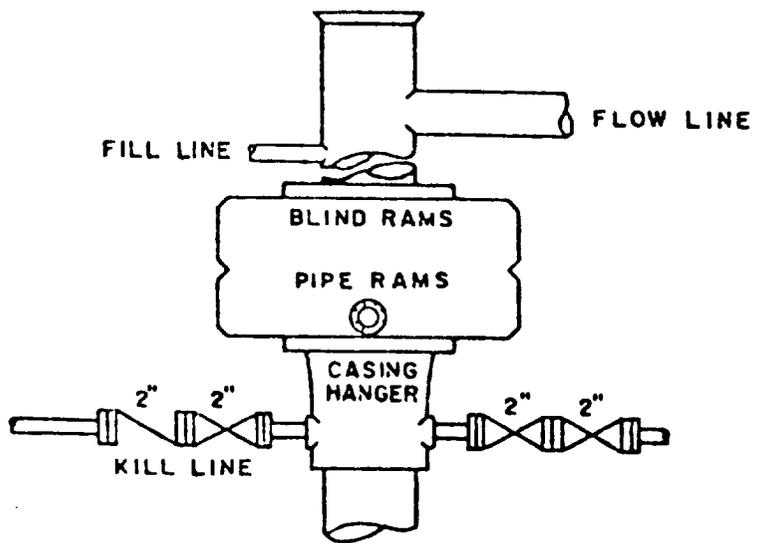
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U. S. Geological Survey

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.
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Above Data Required on Well Sign
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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.