

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
Union Texas Petroleum Corporation
3. ADDRESS OF OPERATOR
P. O. Box 808, Farmington, New Mexico 87499

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
At surface
1721 ft./South line and 1919 ft./West line
At proposed prod. zone
Same as above
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
2-1/2 miles South of Bloomfield, New Mexico

15. DISTANCE FROM PROPOSED*
LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drig. unit line, if any) 437 ft.
16. NO. OF ACRES IN LEASE 1088.20
17. NO. OF ACRES ASSIGNED
TO THIS WELL 25.17
18. DISTANCE FROM PROPOSED*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT. 699 ft.
19. PROPOSED DEPTH 5800'
20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
5502' GR
22. APPROX. DATE WORK WILL START*
May 20, 1983

23. PROPOSED CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH
13-3/4"	9-5/8"	36.0# K-55	300'
8-3/4"	7"	26.0# K-55	5100'
6-1/4"	4-1/2"	11.6# K-55	4900' - 5800'

We desire to drill 13-3/4" surface hole to approx. 300 ft. using natural mud as a circulating medium. Run new 9-5/8" casing to TD. Cement with approx. 250 cu. ft. of Class "B" cement circulated to the surface. Pressure test the casing to approx. 800 PSIG for 10 minutes. Drill 8-3/4" hole to approx. 5100 ft. using a starch base, permaloid, nondispersed mud as the circulating medium. Log the well. Run new 7" casing to TD with a DV tool at approx. 2000 ft. Cement 1st stage with approx. 750 cu. ft. of 65/35/6 followed by approx. 100 cu. ft. of Class "B" cement. Cement second stage with approx. 450 cu. ft. 65/35/12 followed by approx. 100 cu. ft. Class "B". Circulate cement to surface. Drill out the DV tool. Pressure test the pipe to 1500 PSIG for 10 minutes. Drill out with 6-1/4" bit to approx. 5800 ft. using natural gas as the circulating medium. Log the well. Run new 4-1/2" casing to TD and cement with approx. 150 cu. ft. of 50/50 Poz mix. WOC. Perforate and fracture the Gallup zone. Clean the well up. Run new 2-3/8" EUE, 4.7#, J-55 tubing to the Gallup zone. Run rod pump and rods. Set a pumping unit and tanks. Test the well and connect to a gathering system. The gas from this well has previously been dedicated to a transporter.

NOTE: Actual cement volumes will be calculated from caliper log.
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 W.K. Cooper TITLE Field Operations Manager DATE April 19, 1983
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

5. LEASE DESIGNATION AND SERIAL NO.
NM-020982
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT NAME
8. FARM OR LEASE NAME
9. WELL NO.
10. FIELD AND POOL, OR WILDCAT
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
12. COUNTY OR PARISH
13. STATE

RECEIVED
APR 22 1983
U.S. GEOLOGICAL SURVEY
FARMINGTON, N. M.

30-045-25737
RECEIVED
JUN 6 1983
OIL CON. DIV.
DIST. 3

Undesignated Gallup
Sec. 10, T-28N, R-11W
N.M.P.M.
San Juan
New Mexico

This action is subject to administrative
appeal pursuant to 30 CFR 250.
250 cu. ft. (circulated)
1400 cu. ft. (circulated)
150 cu. ft. (top of liner)

NMCCG

All distances must be from the outer boundaries of the Section.

Operator UNION TEXAS PETROLEUM CORPORATION			Lease MANGUM		Well No. 5
Unit Letter K	Section 10	Township 28 NORTH	Range 11 WEST	County SAN JUAN	
Actual Footage Location of Well: 1721 feet from the SOUTH line and 1919 feet from the WEST line					
Ground Level Elev. 5502	Producing Formation GALLUP		Pool UNDESIGNATED		Dedicated Acreage Lot 3 25.17 Acres

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?

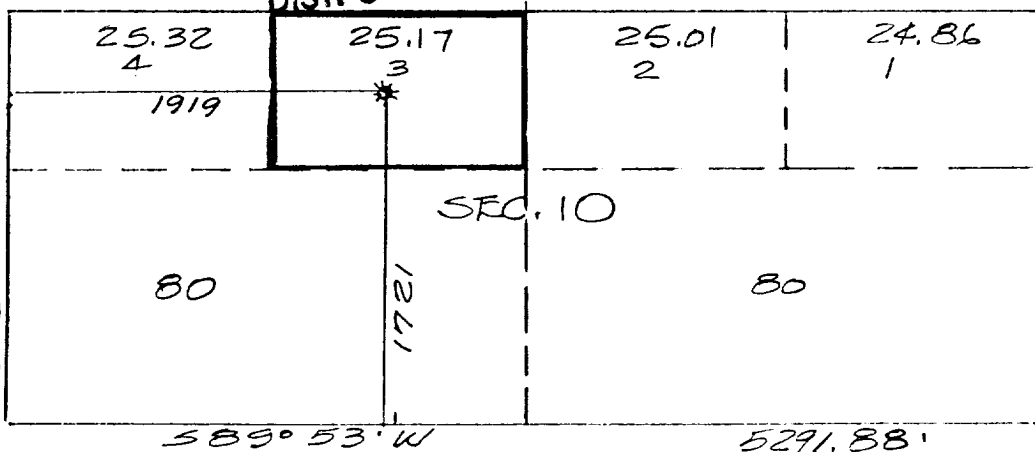
☐ Yes ☐ No If answer is "yes," type of consolidation _____

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 Division.

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JUN 6 1983
OIL CON. DIV.
DIST. 3

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APR 22 1983
U. S. GEOLOGICAL SURVEY
FARMINGTON N. M.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name

Rudy D. Motto

Position

Area Operations Manager

Company

Union Texas Petroleum Corp.

Date

April 4, 1983

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

Date Surveyed

March 30, 1983

Registered Professional Engineer
and/or Land Surveyor

Michael Daly

Certificate No.

5992

Mangum No. 5

1. The geologic name of the surface formation is "Wasatch".
2. The estimated tops of important geologic markers are:

A. Top of the Ojo Alamo	351	ft.
B. Kirtland	697	ft.
C. Fruitland	1309	ft.
D. Pictured Cliffs	1557	ft.
E. Chacra	2559	ft.
F. Cliff House	3114	ft.
G. Point Lookout	3856	ft.
H. Gallup	5154	ft.
3. The estimated depths at which anticipated water, oil or other mineral bearing formations are expected to be encountered are:

A. Top of the Ojo Alamo	351	ft.	Water
B. Kirtland	697	ft.	Water
C. Fruitland	1309	ft.	Water
D. Pictured Cliffs	1557	ft.	Gas
E. Chacra	2559	ft.	Gas
F. Cliff House	3114	ft.	Water
G. Point Lookout	3856	ft.	Gas
H. Gallup	5154	ft.	Oil & Gas
4. The casing program is shown on form 9-331C and all casing is new.
5. The lessee's pressure control equipment schematics are attached, along with minimum specifications, testing procedures, and frequencies.
6. The type, estimated volumes, and characteristics of the circulating medium are as follows:

A. 0 - 300 +	ft.	Natural Mud
B. 300 + - 5100 +	ft.	Permaloid non-dispersed mud containing approx. 150 sx. gel, 60 sx. of permaloid and 15 sx. of CMC.
C. 5100 + - 5800 +	ft.	Natural Gas
7. The auxiliary equipment to be used will be floats at the bit and a sub on the floor with a full opening valve to be stabbed into the drill pipe when the kelly is not in the string.
8. The well is in an area which is partially developed; therefore, we will not have a testing and coring program. The logging program is as follows:

A. G.R. - DIFL
B. GR - CAL
C. F.D.C.- C.N.L.
9. We do not expect to find any abnormal pressures, temperatures or hydrogen sulfide problems in this partially developed area.
10. The anticipated starting date for this well is: May 20, 1983

