

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 applicable requirements.)

At surface

606 ft./South line and 348 ft./East line

At proposed prod. zone

Same as above

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

3-1/2 miles Southeast of Bloomfield, New Mexico

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drlg. unit line, if any)

348 ft.

348 ft.

## 18. DISTANCE FROM PROPOSED LOCATION\*

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

775 ft.

## 16. NO. OF ACRES IN LEASE

560.00

## 19. PROPOSED DEPTH

6019'

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

40.00

## 20. ROTARY OR CABLE TOOLS

Rotary

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

5667' GR

DRILLING OPERATIONS AUTHORIZED ARE  
SUBJECT TO COMPLIANCE WITH ATTACHED

## 22. APPROX. DATE WORK WILL START\*

May 15, 1983

## 23.

"GENERAL REQUIREMENTS"  
PROPOSED CASING AND CEMENTING PROGRAMThis section is subject to administrative  
approval pursuant to 30 CFR 250.

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	
13-3/4"	9-5/8"	36.0# K-55	300'	250 cu. ft. (circulated)
8-3/4"	7"	26.0# K-55	5400'	1400 cu. ft. (circulated)
6-1/4"	4-1/2"	11.6# K-55	5200' - 6019'	150 cu. ft. (top of liner)

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. 5400 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 the second stage with approx. 450 cu ft of 65/35/12 followed by approx. 100 cu ft of 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. 6019 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 11, 1983

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

APPROVED  
AS AMENDED

MAY 09 1983

JAMES F. SIMS  
DISTRICT ENGINEER

NMCCG

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

Operator <b>UNION TEXAS PETROLEUM CORPORATION</b>		Lease <b>REID "B"</b>		Well No. <b>10</b>	
Unit Letter <b>P</b>	Section <b>31</b>	Township <b>29 NORTH</b>	Range <b>10 WEST</b>	County <b>SAN JUAN</b>	
Actual Footage Location of Well: <b>606</b> feet from the <b>SOUTH</b> line and <b>348</b> feet from the <b>EAST</b> line					
Ground Level Elev. <b>5667</b>	Producing Formation <b>GALLUP</b>		Pool <b>UNDESIGNATED</b>		Dedicated Acreage: <b>SE SE 40.00</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 Division

<b>RECEIVED</b> MAY 11 1983 OIL CON. DIV. DIST. 3		<b>RECEIVED</b> APR 12 1983 U. S. GEOLOGICAL SURVEY FARMINGTON, N. M.	
31		348	
606'		348'	

CERTIFICATION

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

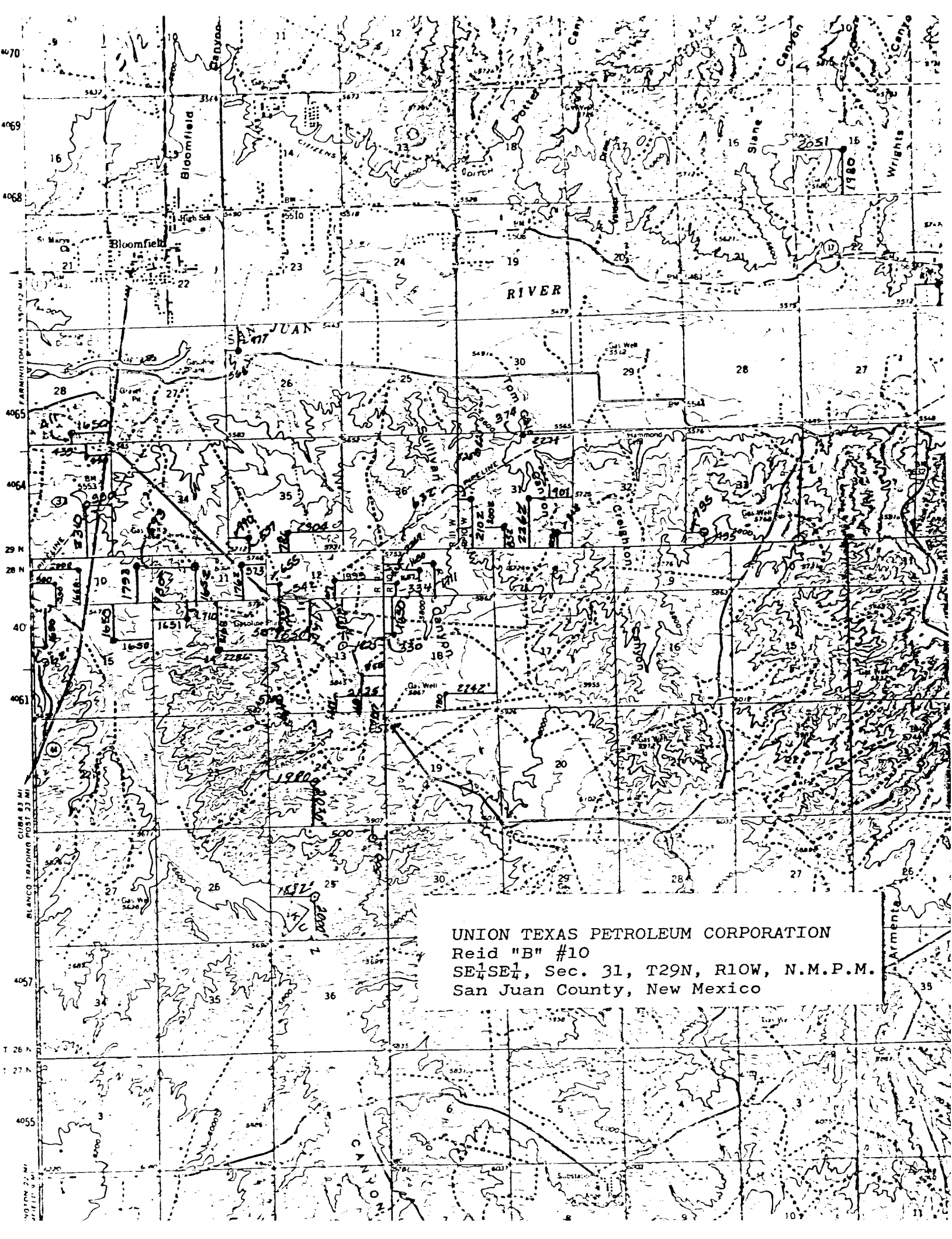
Name  
**Rudy D. Motto**  
Position  
**Area Operations Manager**  
Company  
**Union Texas Petroleum Corp.**  
Date  
**April 4, 1983**

I hereby certify that the well location shown on this plat was plotted from field notes 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  
**March 14, 1983**  
Registered Professional Engineer  
and/or Land Surveyor

**Michael Daly**

Certificate No.  
**5992**



UNION TEXAS PETROLEUM CORPORATION  
Reid "B" #10  
SE $\frac{1}{4}$ SE $\frac{1}{4}$ , Sec. 31, T29N, R10W, N.M.P.M.  
San Juan County, New Mexico

## Reid "B" No. 10

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	679	ft.
B. Kirtland	792	ft.
C. Fruitland	1569	ft.
D. Pictured Cliffs	1816	ft.
E. Chacra	2802	ft.
F. Cliff House	3402	ft.
G. Point Lookout	4101	ft.
H. Gallup	5369	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	679	ft.	Water
B. Kirtland	792	ft.	Water
C. Fruitland	1569	ft.	Water
D. Pictured Cliffs	1816	ft.	Gas
E. Chacra	2802	ft.	Gas
F. Cliff House	3402	ft.	Water
G. Point Lookout	4101	ft.	Gas
H. Gallup	5369	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 + - 5400 +	ft.	Permaloid non-dispersed mud containing approx. 150 sx. gel, 60 sx. of permaloid and 15 sx. of CMC.
C. 5400 + - 6019 +	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 15, 1983