Form 9-331 C (May 1963)

SUBMIT IN TRIPLICATE.

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

30-045-35690
5. LEASE DESIGNATION AND SERIAL NO.

UNIT	ED S	STATE	ES
DEPARTMENT	OF	THE	<b>INTERIOR</b>

**GEOLOGICAL SURVEY** 

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK  DRILL DEEPEN DEE						NM-0702
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21. EMPATIONS (Show whether DF. RT. GR. etc.)  22. APPROX. DATE WORK WILL START  5636' GR  **CEMERAL PROFESSIONS AUTHORIZORD  SIER OF HOLE  SIER OF HOLE  SIER OF CARING  WEIGHT FER FOOT  SETTING DEFTH  13-3/4"  9-5/8"  36.0% K-55  300'  250 cu. ft. (circulated)  13-3/4"  7"  23.0% K-55  5400'  1400 cu. ft. (circulated)  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" circulate cement. Cement the second stage with approx. 450 cu. ft. of 65/35/12 followed by approx. 100 cu. ft. of 50/50 Poz mix. W.O.C. 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 as supply approx. 150 cu. ft. of 50/50 Poz mix. W.O.C. Perforate and fracture the Gallup zone. Run rod pump and supply been dedicated to a transporter.  100 cu. ft. discuss will be calculated from caliper log.  100 cu. ft. of class "B". Circulated from caliper log.  101 cm. If proposal is to drill or deepen directionally, sive pertinent data on subsurface locations and proposed new productive me. If proposal is to drill or deepen drectionally, sive pertinent data on subsurface locations and measured and true vertical depths. Give blowout  110 cu. ft. of class in the first of the proposal is to drill or deepen directionally, sive pertinent data on subsurface locations and measured and true vertical depths. Give blowout  110 cu. ft. of class and first office use)  110 cu. ft. of class approx. Approved by the control of the control of the control of the control of	TO NEAREST WELL, I	RILLING, COMPLETED,	ì	AL PARTY	- :	
SIZE OF HOLE  SIZE OF CASING  WEIGHT PER POOF  SETTING DEPTH  13-3/4"  150 CU. ft. (circulated)  150 CU. ft. (circulated		ether DF, RT, GR, etc.)	<del></del>	<del></del>		
SIER OF HOLE  SHE OF HOLE  SHE OF CASING  WEIGHT FER FOOT  33-3/4"  9-5/8"  36.0# K-55  300'  250 CU. ft. (circulated)  1400 CU. ft. (circulated)  16-1/4"  4-1/2"  10.5# K-55  5200 - 6005"  150 CU. ft. (circulated)  150 CU. ft. ft. of Class  150 CU. ft. of Class  150		TARLUMU OR	ERATIONS AUTHORIES	17:00		
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(This space for Federal or State office use)  PERMIT NO.  APPROVAL DATE  APPROVAL DATE  APPROVED BY  TITGE	Cement 1st stage "B" cement. Ce 100 cu. ft. of the pipe to 150 natural gas as with approx. 15 Clean the well rods. Set a pu gas from this w NOTE: Actual C N AROVE SPACE DESCRIBE CON AROVE SPACE DESCRIBE	we with approx.  The with approx.  The with approx.  The circulating  The	750 cu. ft. of stage with ap culate cement minutes. Drill medium. Log 0/50 Poz mix. 3/8" EUE, 4.7# tanks. Test to saly been dedicate to calculate to proposal is to deepen or a sale of the calculate to the calcu	7" casing to TD 65/35/6 followed prox. 450 cu. for to surface. Drive out with 6-1/4" the well. Run r W.O.C. Perforat J-55 tubing to the well and contrated to a transp ted from caliper	with a I ed by app t. of 65/ ill out t " bit to new 4-1/2 te and fr the Gal nect to a porter. Tog.	OV tool at approx. 2000 prox. 100 cu. ft. of Cla 235/12 followed by approx. he DV tool. Pressure to approx. 6005 ft. using C' casing to TD and ceme facture the Gallup zone. lup zone. Run rod pump gathering system. The
(This space for Federal or State office use)  PERMIT NO.  APPROVAL DATE  APPROVAL DATE  APPROVED BY  TITGE	SIGNED W	Cooper		eld Operations M	lanager	DATE March 21 1002
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## Instructions

General: This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local

Item 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices. State or Federal office for specific instructions.

Items 15 and 18; If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

Item 22: Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

女 U.S. GOVERNMENT PRINTING OFFICE: 1963---O-711-396

## STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

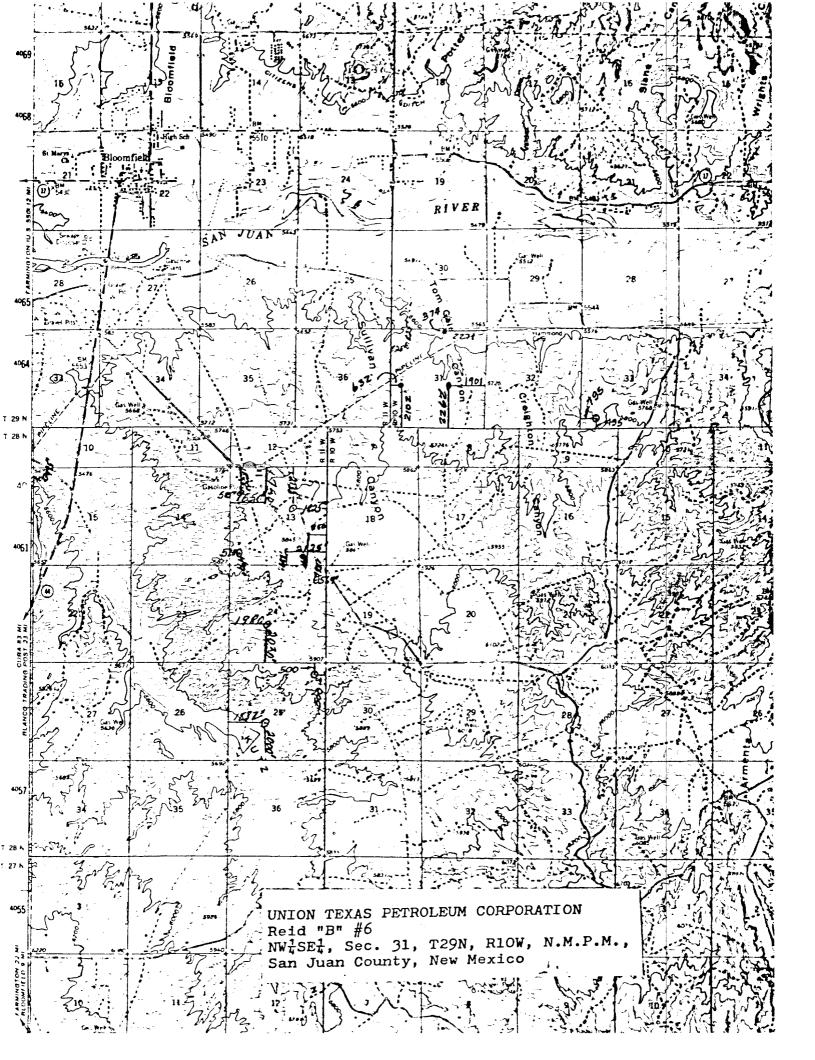
## P. O. BOX 2088 SANTA FE, NEW MEXICO 87501

Form C-102 Revised 10-1-

All distances must be from the outer boundaries of the Section. Well No. Operator 6 REID "B" UNION TEXAS PETROLEUM CORPORATION County Range SAN JUAN 10 WEST 29 NORTH Actual Footage Location of Well: 1901 feet from the line feet from the SOUTH Dedicated Acreage: Producing Formation Ground Level Elev. UNDESIGNATED NE SE 40.00 5636 GALLUP 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? If answer is "yes," type of consolidation \_ Yes X No 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 CERTIFICATION I hereby certify that the information con-RECEIVED

N. S. GEOLOGICAL SURVE

U. S. GEOLOGICAL N. M. tained herein is true and complete to the best of my knowledge and belief Rudy D. Motto Position Area Operations Manager Union Texas Petroleum Corp. March 1, 1983 CH LEHYDAY91 1901 January 7, 1983 Registered Professional Engineer and/or Land Surveyor Michael Daly Certificate No. 5992 1980 2310 2000 1500 1000



2. The estimated tops of important geologic markers are:

A.	Top of the Ojo Alamo	<b>54</b> 5	ft.
_	Kirtland		ft.
C.	Fruitland	1558	
D.	Pictured Cliffs	1807	
E.	Chacra	2401	
F.	Cliff House	3385	
G.	Point Lookout	4150	
H.	Gallup	5355	

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	<b>54</b> 5	ft.	Water
B.	Kirtland			Water
C.	Fruitland			Water
D.	Pictured Cliffs	1807	ft.	Gas
E.	Chacra	2401	ft.	Gas
F.	Cliff House			Water
G.	Point Lookout	4150	ft.	Gas
H.	Gallup			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.  $0-300 \pm ft$ . Natural Mud B.  $300 \pm 5400 \pm ft$ . Permaloid non-dispersed mud containing approx. 150 sx. gel, 60 sx. of permaloid and 15 sx. of CMC.
  - C. 5400 + 6005 + ft. Natural Gas
- 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.
  - D. SNL

-

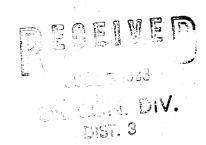
- E. Temperature
- 9. We do not expect to find any abnormal pressures, temperatures or hydrogen sulfide problems in this partially developed area.
- 10. The anticipated starting date for this well is: May 21, 1983

## LINITED STATES

DEPARTMENT OF THE INTERIOR  GEOLOGICAL SURVEY	8. LEASE NM-0702 6. IF INDIAN, ALLOTTEE OR TRIBE NAME
SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir, Use Form 9–331–C for such proposals.)	7. UNIT AGREEMENT NAME  8. FARM OR LEASE NAME
1. oil gas other	Reid "B"  9. WELL NO.
2. NAME OF OPERATOR  Union Texas Petroleum Corporation  3. ADDRESS OF OPERATOR  P. O. Box 808, Farmington, N.M. 87499  4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  AT SURFACE: 2262 ft./S; 1901 ft./E lines  AT TOP PROD. INTERVAL: Same as above  AT TOTAL DEPTH: Same as above	6 10. FIELD OR WILDCAT NAME    Undesignated Gallup 11. SEC., T., R., M., OR BLK. AND SURVEY OR    AREA    Sec. 31, T-29N, R-10W, N.M.P.M 12. COUNTY OR PARISH 13. STATE    San Juan New Mexico 14. API NO.
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA	15. ELEVATIONS (SHOW DF, KDB, AND WD)
REQUEST FOR APPROVAL TO:  TEST WATER SHUT-OFF  FRACTURE TREAT  SHOOT OR ACIDIZE  REPAIR WELL  PULL OR ALTER CASING  MULTIPLE COMPLETE  CHANGE ZONES  ABANDON*  (other) Change proposed T.D.  SUBSEQUENT REPORT OF:  983  JUL 11 1983  JUL 11 1983	(NOTE: Report results of multiple completion or zone

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

We desire to change the proposed total depth of this well from 6005 feet to 6260 feet in order to reach the base of the Greenhorn formation.



Subsurface Safety Valve, Manu. and Tw	20		Set @	: 54
18. I hereby certify that the foregoing is	pe		Set @	r.
<i>i</i> 1 18 / U - //	TITLE Field Oper. Mgr.	DATE _	July 8, 1983	
	(This space for Federal or State office use)			
APPROVED BYCONDITIONS OF APPROVAL, IF ANY:	TITLE TITLE	DATE	APPROVED  AS AMENDED	<b>)</b>
ah Z	*See Instructions on Reverse Side		JAMES SIMS DISTRICT ENGINEER	