

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on
reverse side)

Form approved.
Budget Bureau No. 1004-0136
Expires August 31, 1985

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. SF-077865
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR Union Texas Petroleum Corp.		7. UNIT AGREEMENT NAME
3. ADDRESS OF OPERATOR P.O. Box 2120 Houston, TX		8. FARM OR LEASE NAME Allbright
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 1946' FSL & 1762' FWL At proposed prod. zone		9. WELL NO. 9
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 6 miles SE Bloomfield, NM		10. FIELD AND POOL, OR WILDCAT Fruitland Coal
10. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) 1762		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA K Sec 22-29N-10W
13. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. N/A		12. COUNTY OR PARISH San Juan
16. NO. OF ACRES IN LEASE 1828		13. STATE NM
17. NO. OF ACRES ASSIGNED TO THIS WELL 320		20. ROTARY OR CABLE TOOLS
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5651 GR		22. APPROX. DATE WORK WILL START* 8-1-89

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
13 3/4"	9 5/8"	32#	312'	384 cu'
8 3/4"	7"	23#	5472'	2282 cu'
6 1/4"	4 1/2"	11.6#	5188-6395'	214 cu'

We propose to plug the Gallup zone, recomplete & test the uphole Fruitland Coal Formation. Workover procedure attached.

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OIL CON. DIV.
DIST. 3

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 <u>[Signature]</u> TITLE Reg. Permit Coord.		APPROVED
(This space for Federal or State office use)		DATE 7/19/89
PERMIT NO. _____	APPROVAL DATE _____	JUL 19 1989
APPROVED BY _____	TITLE _____	DATE _____
CONDITIONS OF APPROVAL, IF ANY:		FARMINGTON RESOURCE AREA

*See Instructions On Reverse Side

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

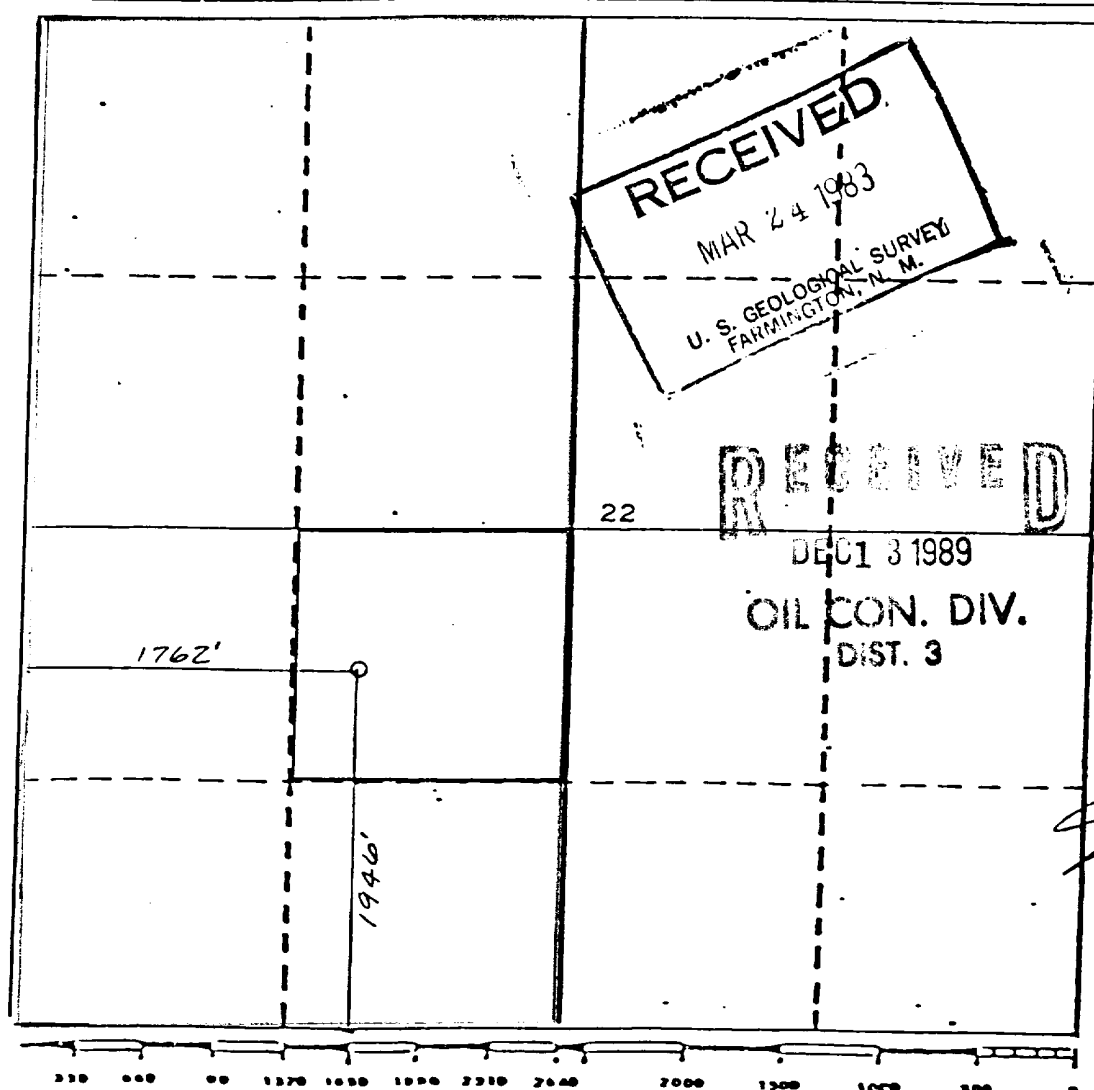
Operator UNION TEXAS PETROLEUM CORPORATION			Lease ALBRIGHT		Well No. 9
Unit Letter K	Section 22	Township 29 NORTH	Range 10 WEST	County SAN JUAN	
Actual Footage Location of Well:					
1946		feet from the	SOUTH	line and	1762
feet from the			WEST	line	
Ground Level Elev. 5651	Producing Formation FRUITLAND COAL		Pool BASIN		Dedicated Acreage 315.6

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 work 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.



CERTIFICATION

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

Rudy D. Motto

Name
Rudy D. Motto

Position
Area Operations Manager

Company
Union Texas Petroleum Corp.

Date
January 20, 1983

Michael Daly
I certify that the well location shown on this plat was plotted from field notes and 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
December 29, 1982

Registered Professional Engineer
and/or Land Surveyor

Michael Daly

Certificate No.

5992

RECOMMENDED WORKOVER PROCEDURE

Albright #9

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OIL CON. DIV.,
DIST. 3

Location: 1946' FSL & 1762' FWL
Section 22, T29N-R10W
San Juan County, NM

Date: 06/22/89
Elevation: 5651' GLE
Datum: 5663' KBE
12' KB

Pool Formation: Basin Fruitland Coal

TD: 6395'
PBTD: 6334'

<u>Casing</u>	<u>Hole Size</u>	<u>Wt & Grade</u>	<u>Depth</u>	<u>Cmt</u>
9-5/8"	13-3/4"	32# K-55	312'	Circ to surface
7"	8-3/4"	23# K-55	5372'	DV tool @ 2190'
				Circ to surface
				both stages
4-1/2"	6-1/4"	11.6# N-80	5188'-6393'	Circ cement to wellbore

Procedure

1. Check anchors, road, and pit. Repair as necessary.
2. MIRUSU.
3. TOH with sucker rods, rod pump, and 2-3/8" tubing. Set 4-1/2" cement retainer at 5400' on tubing and squeeze with 100 sx Class "B" cement. Pull out of retainer and spot minimum 50' plug on top of retainer (±5 sx).
4. Roll hole with fresh water and TOOH with 2-3/8" tubing.
5. Run CBL-GR-CCL across coals from 2100'-1500'. Evaluate and squeeze if necessary.
6. On wireline, set top drillable magnesium alloy bridge plug at 2100'.
7. Pressure test 7" casing to 3800' psi. TIH with tubing to 1950' and spot 100 gals 7-1/2% acetic acid. TOOH.
8. Correlate to Schlumberger's open hole log of 6/24/83 and perforate lower coal at the following intervals with 4 JSP 0.50" holes: 1897'-1900', 1902'-21' and 1949'.
9. Rig up pump trucks and fracture stimulate the lower Fruitland Coal zone down 7" casing with 20,000# 40/70 sand and 110,000# 20/40 sand in 79,000 gals 30# crosslinked gel system at 50 BPM as follows:

<u>Stage</u>	<u>Fluid</u>	<u>Sand Size</u>	<u>Amount</u>
Pad	30,000 gals		
(Fluid Loss) 1 PPG	10,000 gals	40/70	10,000#
(Fluid Loss) 2 PPG	5,000 gals	40/70	10,000#
2 PPG	10,000 gals	20/40	20,000#
3 PPG	10,000 gals	20/40	30,000#
4 PPG	10,000 gals	20/40	40,000#
5 PPG	2,000 gals	20/40	10,000#
5 PPG (resin coated with activator)	2,000 gals	20/40	10,000#
Flush	(4,249) gals		
	83,249 gals		20,000# 40/70 110,000# 20/40

Sand will be Arizona. Resin coated sand will be Sandtrol (including required amount of activator). All frac fluid to contain 2% KCl, 30#/1000 gals gel, required amount of crosslinker, buffer, biocide, and gel breaker (4 hr break time). All sand tagged with R.A. material (IR-192).
Gel to be mixed on fly.

Anticipated STP = 3000 psi. Anticipated BD = 2000 psi. Maximum STP = 3800 psi. Service company will have capacity to pump 65 BPM if necessary.

10. On wireline, set drillable bridge plug at 1885'. Pressure test to 3800 psi. TIH with 2-3/8" tubing to 1868' and spot 100 gals 7-1/2% acetic acid.
11. Perforate middle coal from 1844'-49', 1851'-60', 1864'-68 with 4 JSP, 0.50".
12. Rig up pump trucks and fracture stimulate the middle Fruitland Coal zone down 7" casing with 20,000# 40/70 sand and 90,000# 20/40 sand in 73,500 gals 30# crosslinked gel system at 45 BPM as follows:

<u>Stage</u>	<u>Fluid</u>	<u>Sand Size</u>	<u>Amount</u>
Pad	30,000 gals		
(Fluid Loss) 1 PPG	10,000 gals	40/70	10,000#
(Fluid Loss) 2 PPG	5,000 gals	40/70	10,000#
2 PPG	10,000 gals	20/40	20,000#
3 PPG	7,000 gals	20/40	21,000#
4 PPG	8,500 gals	20/40	34,000#
5 PPG	1,000 gals	20/40	5,000#
5 PPG (resin coated with activator)	2,000 gals	20/40	10,000#
Flush	(4,133) gals		
	77,633 gals		20,000# 40/70 90,000# 20/40

Sand will be Arizona. Resin coated sand will be Sandtrol. All frac fluid to contain 2% KCl, 30#/1000 gals gel, required amount of crosslinker, buffer, biocide, and gel breaker (4 hr break time). All sand tagged with R.A. material (SC-46).

Gel to be mixed on fly. Anticipated STP = 3000 psi. Anticipated BD = 2000 psi. Maximum STP = 3800 psi. Service company will have capacity to pump 60 BPM if necessary.

13. On wireline, set drillable bridge plug at 1828'. Pressure test to 3800 psi TIH with tubing to 1807' and spot 130 gals 7-1/2% acetic acid. TOOH.
14. Perforate upper coal from 1744'-47', 1785', 1789', 1794'-1807' with 4 JSP, 0.50" holes.
15. Rig up pump trucks and fracture stimulate the upper Fruitland Coal zone down 7" casing with 20,000# 40/70 sand and 90,000# 20/40 sand in 73,500 gals 30# crosslinked gel system at 45 BPM at follows:

<u>Stage</u>	<u>Fluid</u>	<u>Sand Size</u>	<u>Amount</u>
Pad	30,000 gals		
(Fluid Loss) 1 PPG	10,000 gals	40/70	10,000#
(Fluid Loss) 2 PPG	5,000 gals	40/70	10,000#
2 PPG	10,000 gals	20/40	20,000#
3 PPG	7,000 gals	20/40	21,000#
4 PPG	8,500 gals	20/40	34,000#
5 PPG	1,000 gals	20/40	5,000#
5 PPG (resin coated with activator)	2,000 gals	20/40	10,000#
Flush	(4,133 gals)		
	77,633 gals		20,000# 40/70 90,000# 20/40

Sand will be Arizona. Resin coated sand will be Sandtrol. All frac fluid to contain 2% KCl, 30#/1000 gals gel, required amount of crosslinker, buffer, biocide, and gel breaker (4 hr break time). All sand tagged with R.A. material (IR-192).

Gel to be mixed on fly.

Anticipated STP = 3000 psi. Anticipated BD = 2000 psi. Maximum STP = 3800 psi. Service company will have capacity to pump 60 BPM if necessary. S.I. well overnight.

16. TIH with 6-1/4" bit on 2-3/8" tubing and clean out to 1st BP at 1828'. Obtain water and gas rates if possible.
17. Drill out BP and clean out to 2nd BP at 1885'. Obtain water and gas rates if possible.
18. Drill out BP and clean out to 3rd BP at 2100'. Obtain water and gas rates if possible. Obtain water samples of each zone for analysis.
19. TIH with 32' mud anchor with purge valve, 6' perf sub, and standard seating nipple on 2-3/8" tubing. Land at 1940'.

S. G. Katirgis
S. G. Katirgis
Production Engineer

N. K. Buller
N. K. Buller
Sr. Drilling Foreman

Need is on vacation



3 3/4" hole
9 5/8", 32" @ 312'
Circ cmt to surface

1946 FSL & 1762 FWL
Section 22, T29N-R10W

5651' GL
5663' RKB
12' KB

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2 3/8", 4.7", 8 rd. EVE @ 6226'
bull plug on bottom
1 jt 2 3/8"
1 perfed jt
1.81" ID S.N.
193 jts 2 3/8"

160 - 5/8" rods
83 - 3/4" rods
2" x 1 1/4" x 16' RHAC pump

8 3/4" hole
7", 23" K-55 @ 5372'

DV tool @ 2190'
Circ. cmt 2" stage

6 1/4" hole
4 1/2", 11.6" N-80.5/88'-6393
Circ. cmt

5468'

6120' Gallup

6218'

Greenhorn

6274'

TD=6395'
OR TO=6395'



246 FSL & 1762' FWL
Section 22, T29N-R10W

3651' GL
5663' RKE
12' KB

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DIST. 3

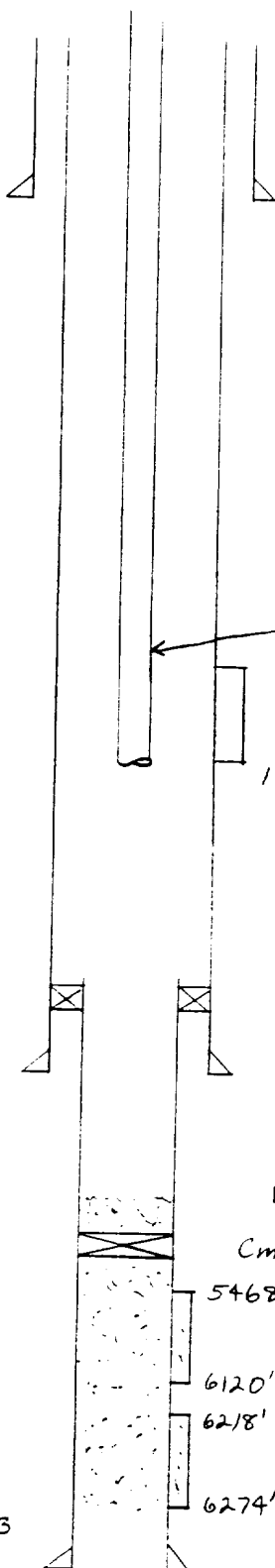
Formation Tops

Fruitland	1660'
Pictured Cliffs	1950'
Chacra	2900'
Mesaverde	3580'
Gallup	5450'

8 3/4" hole
7", 23" K-55 @ 5372'

DV tool @ 2190'
Circ. cmt 2nd stage

6 1/4" hole
4 1/2", 11.6" N-80, 5188'-6393
Circ. cmt



2 3/8", 4.7", 8 id, EVE @

1744'

Fruitland Coal

1949'

PBTD = 5350'

Cmt Retainer 5400'

5468'

6120' Gallup

6218'

Greenhorn

6274'

TD = 6375'
PCTD = 6334'