Form 3160-3 (November 1983) (formerly 9-331C)

PERMIT NO. \_

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY :

## UNITED STATES

SUBMIT IN TRIPLICATE. Other instructions on everse side)

Form approved. Budget Bureau No. 1004-0136

BUREAU OF LAND MANAGEMENT  APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK  DRILL DEEPEN DEEPEN, OR PLUG BACK  DEEPEN DEEPEN DEEPEN, OR PLUG BACK  DEEPEN DEEPEN DEEPEN, OR PLUG BACK  DEEPEN DEEPEN DEEPEN, OR PLUG BACK  TO ENT AGREEMENT NAME  DEEPEN DEEPEN DEEPEN DECOMES ALLOTTER OR TRIBE NAME  D. TITPE OF WELL  OAR WELL OAR WELL DOTHER  SINGLE DEEPEN DEEPEN, OR PLUG BACK  TO ENT AGREEMENT NAME  ALLOTTER OR WELL  OAR WELL OAR WELL TO SHEEL NAME  ALLOTTER OR WELL TO SHEEL NAME  ALLOTTER OF WELL OAR DEEPEN DEEPE		DEPARIMEN	IT OF THE I	NTERIOR /		Expires August 31, 1985
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK  18. TYPE OF WORK  DRILL DEEPEN						5. LEASE DESIGNATION AND SERIAL NO.
DEEPEN DE	APPLICATIO	N FOR DEDAME	TO DOLL	DEEDEL!		SF-077865
DEEPEN DE	1a. TYPE OF WORK	TOR PERMIT	TO DRILL,	DEEPEN, OR PLUG	BACK	6. IF INDIAN, ALLOTTER OR TRIBE NAME
OIL OIL OAR WELL OAR WELL OTHER SINGLE SINGLE SOME SOME SINGLE SOME SINGLE SOME SINGLE SOME SOME SINGLE SOME SINGLE SOME SOME SINGLE SOME SINGLE SOME SINGLE SOME SINGLE SOME SINGLE SOME SOME SINGLE SOME SOME SINGLE SOME SINGLE SOME SINGLE SOME SOME SINGLE SOME SOME SOME SINGLE SOME SOME SOME SOME SOME SOME SOME SOM						
WELL WELL OTHER SINGLE DOTE NOT ELEASE NAME  Union Texas Petroleum Corp.  3. Address of Operator P.O. Box 2120 Houston, TX 4. Location of Well (Report location clearly and in accordance with any State requirements.*)  1946' FSL & 1762' FWL At proposed prod. sone  4. Distance in Miles and disection from nearest town or post oppics*  6 miles SE Bloomfield , NM  12. County or Parish Sec 22-29N-10W  13. State Son Juan NM  16. No. of acres in lease PROPERTY OR LEASE LINE, Unit line, if any, 1762 SINGLE TO MALES ASSIGNED TO MALES, FT. (Also to nearest delig. unit line, if any) SINGLE DEPTH TO MALES, WELL NO.  PROPOSED CASING AND CEMENTING PROGRAM  SIZE OF ROLE SIZE OF CASING SIZE OF ROLE SIZE OF CASING WEIGHT PER FOOT SETTING DEPTH QUANTITY OF CEMENT 13. 3/4" 9 5/8" 32# 5472' 2282 CU'  SINGLE WILLTIFLE  All bright  All bright  S. FIRM OR LEASE NAME All bright  9. WELL NO.  9 10. FIELD AND POOL. OR WILDCAT FRUID AND POOL. OR WILDCAT	b. TYPE OF WELL		DEELEIA	- PLUG B	ACK 🛚	7. ENIT AGREEMENT NAME
Union Texas Petroleum Corp.  Allbright  9. Wall No.  9	WELL X			SINGLE Y MUI	TIPLE	
3. ADDRESS OF OPERATOR P.O. BOX 2120 Houston, TX 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)  1946 'FSL & 1762 'FWL At proposed prod. zone  4. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*  6 miles SE Bloomfield , NM  DISTANCE FROM PROPURED*  LOCATION TO NEAREST PROPERTY OR LEASE LIMB, FT. (Also to nearest drig. unit line, if any) TO NEAREST VOLLED RILLING, COMPLETED, OR APPLEAD TO NEAREST WELL, DRILLING, COMPLETED, OR APPLEAD TO, OR THIS LEASE, T. N/A  1. ELEVATIONS (Show whether DF, RT, GR, etc.)  PROPOSED CASING AND CEMENTING PROGRAM  SIZE OF ROLE  SIZE OF ROLE  SIZE OF ROLE  SIZE OF CASING  WEIGHT PER FOOT  SETTING DEPTH  QUANTITY OF CEMENT  13 3/4" 7" 23# 312' 384 CU' 2282 CU'				ZONE (A) ZON		
P.O. Box 2120 Houston, TX  4. Location of well (Report location clearly and in accordance with any State requirements.*)  1946   FSL & 1762   FWL  At proposed prod. sone  4. DISTANCE IN MILES AND DIESCTION FROM NEAREST TOWN OR POST OFFICE*  6 miles SE Bloomfield , NM  D. DISTANCE FROM PROPUSED*  LOCATION TO BLAREST TOWN COLORED TO BLANEST TOWN OR POST OFFICE*  16. NO. OF ACRES IN LEASE  17. NO. OF ACRES ASSIGNED TO THIS WELL 320  18. NO. OF ACRES IN LEASE  17. NO. OF ACRES ASSIGNED TO THIS WELL 320  18. DISTANCE FROM PROPUSED*  19. PROPOSED DEPTH  19. PROPOSED DEPTH  10. ROTARY OR CABLE TOOLS  10. STATUS  11. SEC. T. R. M., OR BLK.  AND SURVEY OR ALREA  SCC 22-29N-10W  12. COUNTY OR PAILEM  13. STATE  San Juan NM  17. NO. OF ACRES ASSIGNED TO THIS WELL 320  20. ROTARY OR CABLE TOOLS  20. ROTARY OR CABLE TOOLS  8-1-89  PROPOSED CASING AND CEMENTING PROGRAM  SIZE OF ROLE  13. 3/4"  14. 9 5/8"  32#  312'  384 CU'  2282 CU'	Union Tex	as Petroleum Com	rp.			Allbright
At surface  1946' FSL & 1762' FWL  At proposed prod. zone  4. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OF POST OFFICE*  6 miles SE Bloomfield, NM  9. DISTANCE FROM PROPURED* LOCATION TO MARKEST TOWN OF POST OFFICE*  17. NO. OF ACRES IN LEASE LIFE, FT. (Also to nearest diffe, unit line, if any)  1762  18. NO. OF ACRES IN LEASE 17. NO. OF ACRES ASSIGNED TO THIS WELL 320  20. ROTART OF CABLE TOOLS  10. PROPOSED LOCATION* TO MARKEST WELL, BRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.  1828  19. PROPOSED CASING AND CEMENTING PROGRAM  SIZE OF ROLE  SIZE OF ROLE  SIZE OF CABING  WEIGHT PER POOT  8ETTING DEPTH  QUANTITY OF CEMENT  11. SBC., T., R., M., OR BLE.  12. COUNTY OF PARKS.  N/M  12. COUNTY OF PARKS.  13. STATE  14. NO. OF ACRES IN LEASE 17. NO. OF ACRES ASSIGNED TO THIS WELL 320  20. ROTART OF CABLE TOOLS  21. APPROX. DATE WORK WILL STAET*  8-1-89  PROPOSED CASING AND CEMENTING PROGRAM  SIZE OF ROLE  13. 3/4"  9 5/8"  32#  312' 384 CU' 2282 CU'	3. ADDRESS OF OPERATOR		<del></del>			
At surface  1946' FSL & 1762' FWL  At proposed prod. zone  4. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OF POST OFFICE*  6 miles SE Bloomfield, NM  9. DISTANCE FROM PROPURED* LOCATION TO MARKEST TOWN OF POST OFFICE*  17. NO. OF ACRES IN LEASE LIFE, FT. (Also to nearest diffe, unit line, if any)  1762  18. NO. OF ACRES IN LEASE 17. NO. OF ACRES ASSIGNED TO THIS WELL 320  20. ROTART OF CABLE TOOLS  10. PROPOSED LOCATION* TO MARKEST WELL, BRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.  1828  19. PROPOSED CASING AND CEMENTING PROGRAM  SIZE OF ROLE  SIZE OF ROLE  SIZE OF CABING  WEIGHT PER POOT  8ETTING DEPTH  QUANTITY OF CEMENT  11. SBC., T., R., M., OR BLE.  12. COUNTY OF PARKS.  N/M  12. COUNTY OF PARKS.  13. STATE  14. NO. OF ACRES IN LEASE 17. NO. OF ACRES ASSIGNED TO THIS WELL 320  20. ROTART OF CABLE TOOLS  21. APPROX. DATE WORK WILL STAET*  8-1-89  PROPOSED CASING AND CEMENTING PROGRAM  SIZE OF ROLE  13. 3/4"  9 5/8"  32#  312' 384 CU' 2282 CU'	P.O. Box	2120 Houston, 7	ГХ			
1946 FSL & 1762 FWL At proposed prod. 2016  4. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*  6 miles SE Bloomfield , NM  5 cc 22-29N-10W  12. COUNTY OF PARISH 13. STATE San Juan NM  14. DISTANCE PROM PROPOSED*  LOCATION TO NEAREST PROMPSTOR LEASE LINE, FT.  (Also to nearest drig. unit line, if any, or appear to mean the proposed Location* N/A 1828  17. NO. OF ACRES ASSIGNED TO THIS WELL 320  20. ROTARY OR CABLE TOOLS  19. PROPOSED DEPTH 20. ROTARY OR CABLE TOOLS  19. PROPOSED DEPTH 20. ROTARY OR CABLE TOOLS  19. PROPOSED CASING AND CEMENTING PROGRAM  SIZE OF ROLE SIZE OF CASING WEIGHT PER FOOT SETTING DEPTH QUANTITY OF CEMENT 32# 312 384 Cu'  23# 5472' 2282 Cu'	4. LOCATION OF WELL ()	Report location clearly and	l in accordance wit	h any State		10. FIELD AND POOL, OR WILDCAT
At proposed prod. sone  4. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*  6 Miles SE Bloomfield , NM  5. DISTANCE FROM PROPUSED* LOCATION 70 NEAREST PROPUSED* LOCATION 70 NEAREST PROPUSED* LOCATION 70 NEAREST PROPUSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR ON THIS LEASE, FT.  1762  18. NO. OF ACRES IN LEASE 17. NO. OF ACRES ASSIGNED TO THIS WELL 320  177. NO. OF ACRES ASSIGNED TO THIS WELL 320  18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR ON THIS LEASE, FT.  N/A  1828  PROPOSED CASING AND CEMENTING PROGRAM  SIZE OF ROLE  SIZE OF ROLE  SIZE OF CASING  WEIGHT PER FOOT  SETTING DEPTH QUANTITY OF CEMENT  384 CU  2282 CU  11. SHC., T., E., M., OR BLK. AND SURVET OR AREA  SCACE 22-29N-10W  12. COUNTY OF PARISH 13. STATE  SAN JUAN N/M  12. COUNTY OF PARISH 13. STATE  N/M  17 NO. OF ACRES ASSIGNED TO THIS WELL 320  20. ROTARY OR CABLE TOOLS  8-1-89  321  322  4312  334  312  334  312  334  312  336  327  316  317  318  328  317  318  328  319  319  319  328  328  310  328  311  328  328  328  328  339  339  340  350  360  370  380  380  380  380  380  380  38	10461 FCI	0 17601 500		any State requirements.		Fruitland Coal
4. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*  6 miles SE Bloomfield , NM  12. COUNTY OR PARISE 13. STATE San Juan NM  10. DISTANCE FROM PROPUSED* PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)  9. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.  N/A  1828  17. NO. OF ACRES ASSIGNED TO THIS WELL 320  20. ROTART OR CABLE TOOLS  19. PROPOSED DEPTH 20. ROTART OR CABLE TOOLS  10. PROPOSED CASING AND CEMENTING PROGRAM  SIZE OF ROLE SIZE OF CASING WEIGHT PER POOT SETTING DEPTH QUANTITY OF CEMENT 32# 312 384 cu'  6 1/4"  7" 23# 5472' 2282 cu'	At proposed prod so	& 1/62' FWL				11. 8BC., T., B., M., OR BIN
O MITES SE Bloomfield , NM  D. DISTANCE PROM PROPUSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, PT. (Also to degreest drig. unit line, if any)  S. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, PT.  18. ELEVATIONS (Show whether DF, RT, GR, etc.)  5651 GR  PROPOSED CASING AND CEMENTING PROGRAM  SIZE OF ROLE  SIZE OF ROLE  SIZE OF CASING  WEIGHT PER FOOT  SETTING DEPTH  QUANTITY OF PARISH 13. STATE  San Juan NM  17. NO. OF ACRES ASSIGNED TO THIS WELL 320  20. ROTARY OR CABLE TOOLS  8-1-89  PROPOSED CASING AND CEMENTING PROGRAM  SIZE OF ROLE  13 3/4"  9 5/8"  32# 312' 384 CU' 2282 CU'						AND BURNEY OR AREA
O MITES SE Bloomfield , NM  D. DISTANCE PROM PROPUSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, PT. (Also to degreest drig. unit line, if any)  S. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, PT.  18. ELEVATIONS (Show whether DF, RT, GR, etc.)  5651 GR  PROPOSED CASING AND CEMENTING PROGRAM  SIZE OF ROLE  SIZE OF ROLE  SIZE OF CASING  WEIGHT PER FOOT  SETTING DEPTH  QUANTITY OF PARISH 13. STATE  San Juan NM  17. NO. OF ACRES ASSIGNED TO THIS WELL 320  20. ROTARY OR CABLE TOOLS  8-1-89  PROPOSED CASING AND CEMENTING PROGRAM  SIZE OF ROLE  13 3/4"  9 5/8"  32# 312' 384 CU' 2282 CU'	14. DISTANCE IN MILES	AND DIRECTION FROM NEAD	1240 00 TV 00 000			Sec 22-29N-10W
D. DISTANCE FROM PROPUSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to degrest drig. unit line, if any)  3. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.  N/A  1. ELEVATIONS (Show whether DF, RT, GR, etc.)  5651 GR  PROPOSED CASING AND CEMENTING PROGRAM  SIZE OF HOLE  SIZE OF HOLE  SIZE OF CASING  WEIGHT PER FOOT  SETTING DEPTH  QUANTITY OF CEMENT  384 CU'  2282 CU'	6 miles SF	Bloomfield M	M	OFFICE.		12. COUNTY OF PARISE   13. STATE
DOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)  3. DISTANCE FROM PROPOSED LOCATION* OR APPLIED FOR, ON THIS LEASE, FT. N/A  1. ELEVATIONS (Show whether DF, RT, GR, etc.)  5651 GR  PROPOSED CASING AND CEMENTING PROGRAM  SIZE OF HOLE  SIZE OF HOLE  10. NO. OF ACRES IN LEASE  17. NO. OF ACRES ASSIGNED TO THIS WELL 320  20. ROTARY OR CABLE TOOLS  22. APPROX. DATE WORK WILL START*  8-1-89  PROPOSED CASING AND CEMENTING PROGRAM  SIZE OF HOLE  13 3/4 9 5/8 32# 312 384 CU 384 CU 486 CU 486 CO 547 CU 486 CU 4	LD. DISTANCE PROM PROP	UREDO				
320 3. DISTANCE FROM PROPOSED LOCATION* OR APPLIED FOR, ON THIS LEASE, FT.  19. PROPOSED DEPTH OR APPLIED FOR, ON THIS LEASE, FT.  N/A  1. ELEVATIONS (Show whether DF, RT, GR, etc.)  5651 GR   PROPOSED CASING AND CEMENTING PROGRAM  SIZE OF ROLE  SIZE OF ROLE  SIZE OF CASING  WEIGHT PER FOOT  SETTING DEPTH QUANTITY OF CEMENT  320  22. ROTARY OR CABLE TOOLS  8-1-89  PROPOSED CASING AND CEMENTING PROGRAM  SIZE OF ROLE  13 3/4" 9 5/8" 32# 312' 384 CU' 2282 CU'	PROPERTY OR LEADE !	1 W = 1	762	16. NO. OF ACRES IN LEASE	17. No. o	F ACRES ASSIGNED
18. PROPOSED DEPTH   20. ROTALY OR CABLE TOOLS   18. PROPOSED DEPTH	ALBO TO DESTESE dri	E. Unit line, if env.	702		10 11	320
1. ELEVATIONS (Show whether DF, RT, GR, etc.)   22. APPROX. DATE WORK WILL START*   8-1-89	TO DEVENE MELL D	PILITYA CAMPARET		19. PROPOSED DEPTH	20. ROTAL	ST OR CABLE TOOLS
22. APPROX. DATE WORK WILL START*   8-1-89			/A	1828	1	
SIZE OF ROLE   SIZE OF CASING   WEIGHT PER FOOT   SETTING DEPTH   QUANTITY OF CEMENT		•		1020		22. APPROV. DARE TO S
SIZE OF ROLE   SIZE OF CASING   WEIGHT PER FOOT   SETTING DEPTH   QUANTITY OF CEMENT	5	<u>651 GR</u>		•		1
SIZE OF ROLE   SIZE OF CASING   WEIGHT PER FOOT   SETTING DEPTH   QUANTITY OF CEMENT	J.		PROPOSED CASIN	G AND CEVENTING PROCE		8-1-89
13 3/4" 9 5/8" 32# 312' 384 cu' 8 3/4" 7" 23# 5472' 2282 cu'	SIZE OF ROLE				AM	
8 3/4" 7" 23# 312' 384 cu' 6 1/4" 4 1/2" 11 6# 5122 cu'	13 3/4"					QUANTITY OF CEMENT
6 1/4" 4 1/2" 5472' 2282 cu'	8 3/4"					384 cu'
	6 1/4"	4 1/2"				
	-, .	' 1/2	11.0#	5188-6395'		
		•		ı	I	

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



OIL CON. DIV. DIST. 3

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive sone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measure Permit Coord. 7/19/89 (This space for Federal or State office use) FARMING FOR RESOURCE SEES

MALOCO \*See Instructions On Reverse Side

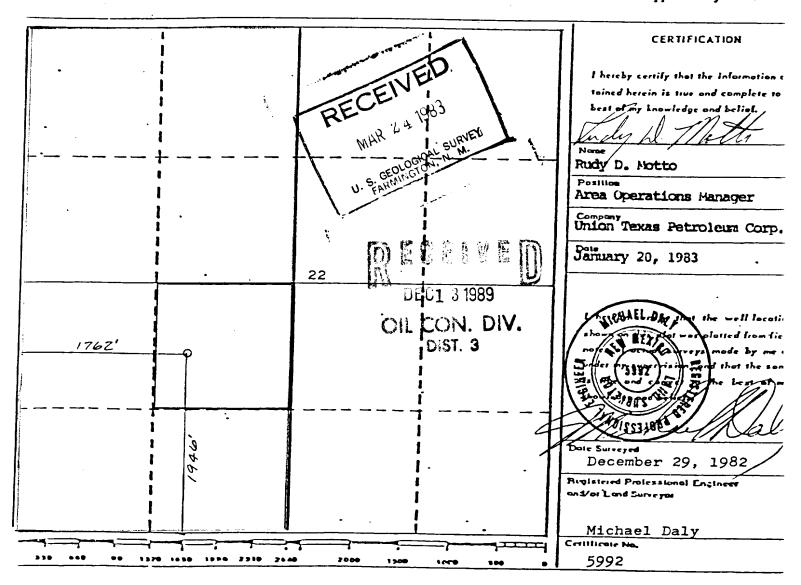
		All fistents, mus	I be from C	he sules howder	ire of the Section	•		
Cycrotor			Leo	.,			Well No.	
UNION TEXA	S PETROLEUM	CORPORATION		ALBRIGHT	`		9	
Unit Leller	Section	Township		hange	County		<del></del>	
K	22	29 NORTH		10 WEST	SAN	JUAN		
Actual Footage Lor	ation of Well:							
1946	feet from the .	SOUTH line	and	1762	feet from the	WEST	line	
Cround Level Des.	Producting Fo	rr-otice	Pool				Dedicated Acreages	
5651	FRUITI	AND COAL		RASTN.			315.6	
1. Outline the	e acreage dedica	ited to the subject	t well by	colored pen	cil or hachure	marks on 1		

- 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to worl interest and royalty).
- 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been cons dated by communitization, unitization, force-pooling, etc?

Tes Yes	× No	If answer is "yes," type of consolidation
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If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side this form if necessary. )\_

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitizati forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Divis



## RECOMMENDED WORKOVER PROCEDURE

DEUI 3 1989

Albright #9

OIL CON. DIV., DIST. 3

Location: 1946' FSL & 1762' FWL

Date: 06/22/89

Section 22, T29N-R10W

Elevation: 5651' GLE

San Juan County, NM Datum:

5663' KBE 12' KB

Pool Formation: Basin Fruitland Coal

TD: 6395' PBTD: 6334'

<u>Casing</u>	Hole Size	Wt & Grade	<u>Depth</u>	<u>Cmt</u>
9 <b>-</b> 5/8" 7"	13-3/4" 8-3/4"	32# K-55 23# K-55	3 <b>12'</b> 537 <b>2'</b>	Circ to surface DV tool @ 2190' Circ to surface
4-1/2"	6-1/4"	11.6# N-80	5188 <b>′-</b> 6393 <b>′</b>	both stages Circ cement to Wellbore

## <u>Procedure</u>

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

- 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.
- Perforate upper coal from 1744'-47', 1785', 1789', 1794'-1807' with 4 JSP, 0.50" holes.
- 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:

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

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.

- 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'.

Production Engineer

N. K. Buller Sr. Drilling Forema Necl is on

95%", 32 4

Circ cont to surface

SUBJECT: ALBRIGHT 3

Existina Wellbore Diagram

BY: 56K DATE: 6/10/89

PAGE \_\_! OF 4

1946 FSL \$ 1762 FWL Section 22 , 729N-RIOW

> 5651 GL 5663 RKB 12'KB

RECEIVE

DEU1 3 1989

OIL CON. DIV. DIST. 3

- 2 %", 4.7 \*, 8 rd, EVE @ 6226'
bull plug on bottom
1 jt 2 %8
1 perfed jt
1.81" 10 5.N.
193 jts 2 %"

160 - 5/8" rods 33 - 3/4" rods 2"x (1/4"x16' RHAC pump

274" hole 7", 23", K-55 @5372' \( \int \)

DV tool @ 2199'

Circ. cmt 2nd stage

6'/4" hole 4/2", 11.6 # N-80.5/88 -6393 Circ: cmt 6120' Gallup

62/8"

5468

Greenhorn 6274

TD=6395

## Union Texas Petroleum

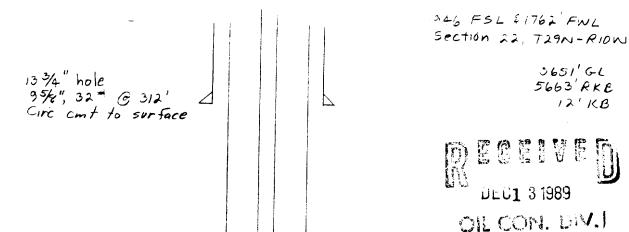
SUBJECT: ALBRIGHT \*9

Kroposeci wirllbore Diagram

BY: \_\_\_\_S G-K 6/20/89 DATE:

PAGE \_\_ | OF \_2

12' KB



Formation Tops

Fruitland 1660' Pic tured Cliffs 1950' 2900' Chacra Mesaverde 3580' Gallup 5450'

2 1/8", 4.7 +, 8 rd, EVE 10

DIST. 3

Fruitland Coal

874" hole 7", 23" K-55 @5372' DV tool @ 2190' Circ. cmt and stage

PBTD = 5350'

Cmt Retainer 5400'

5468'

6120' Gallys

1744

1949'

62/8'

Greenhorn

6 1/4" hole 41/2", 11.6# Circ. cmt

PETD= 6:34'