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NEW MEXICO OIL CONSERVATION COMMISSION

Form C-101
Revised 1-1-65

5A. Indicate Type of Lease STATE ☐ FEE ☒

5. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work

b. Type of Well: DRILL ☐ DEEPEN ☐ PLUG BACK ☒
OIL WELL ☒ GAS WELL ☐ OTHER SINGLE ZONE ☐ MULTIPLE ZONE ☐

7. Unit Agreement Name

8. Farm or Lease Name: Shipp 34

2. Name of Operator: Union Texas Petroleum Corporation

9. Well No.: 4

3. Address of Operator: P.O. Box 2120, Houston, Tx. 77252-2120

10. Field and Pool, or Wildcat: Knowels West (Drinkard

4. Location of Well: UNIT LETTER N LOCATED 1980 FEET FROM THE West LINE AND 660 FEET FROM THE South LINE OF SEC. 34 TWP. 16S RGE. 37E NMPM

12. County: Lea

19. Proposed Depth	19A. Formation	20. Rotary or C.T.
8400	Drinkard	

21. Elevations (Show whether DF, RT, etc.)	21A. Kind & Status Plug. Bond	21B. Drilling Contractor	22. Approx. Date Work will start
3772	Blanket	Unknown	10-15-88

23.

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP

Rig up electric line truck with a pack-off.

A. GIH with a CIBP and set at 11,250'.
B. GIH with a dump bailer and dump 35' of cement on top of CIBP.
C. Load the hole with clean fluid from the surface (hole will be empty).
D. GIH with 4" hollow steel carrier perforating guns, 90° phasing, 1 jspf and perforate the intervals listed below.

8,318' - 8,342'	24'	25 holes
8,394' - 8,438'	44'	45 holes
TOTAL: 8,318' - 8,438'	68'	70 holes

Correlate with Welex Density/Neutron Log dated 8/16/87
(Wedge CRC Correlation Log dated 9/8/87 is 5' high to openhole logs)

Corrected collar depths are: 8061', 8107', 8149', 8193', 8237'+, 8280', 8320', 8361', 8401', 8447', 8492'+, 8538'+

IN TIV

Continued on back

REDUC.

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

Signed Sue White Title Reg. Permit Coord. Date 10-5-88

(This space for State Use)

APPROVED BY Orig. Signed by Paul Kautz Geologist TITLE DATE OCT 7 1988

CONDITIONS OF APPROVAL, IF ANY:

GIH with a treating packer on 2-7/8" production tubing to 8,438', hydrotesting tubing to 6,000 psig.

Acidize the Drinkard perforations 8,318'-8,438' with 8,950 gal of 15% NE-FE HCl *acid as follows:

A. Spot 150 gal *acid from 8,438' to 8,284'.
B. Pull packer uphole to 8,250' and set packer.
C. Pressure up backside to 1000 psig.
D. Pump 1,000 gal of *acid.
E. Pump 2,400 gal of *acid, dropping 1 ball sealer every 1-1/2 bbl of acid (total of 36 balls, 7/8", 1.1 SG.)
F. Pump 1,000 gal of *acid.
G. Pump 4,400 gal *acid, dropping 1 ball sealer every 1-1/2 bbl of acid total of 68 balls, 7/8", 1.1 SG). If ballout occurs, surge balls, then continue treatment.
H. SI well for 1 hour.

Expected rate and pressure: 1-1/2 - 2 BPM at 3500 psig
Maximum rate and pressure: 3 BPM or 5000 psig

NOTE: If pressure limit is OK, try to treat at 3 BPM. If formation will not breakdown, re-spot acid and let soak. If necessary, soak overnight with 5000 psig.

Flow and/or swab well back reporting hourly fluid rate, oil cut, and fluid level. As directed, proceed with Step No. 9 or Step No. 14.

Release packer and POH, laying down packer.

GIH with a bull plugged mud anchor, perforated nipple, seating nipple, 6 jts of 2-7/8" tubing, tubing anchor, and 2-7/8" tubing to surface. Put SN at 8450'+/- and TA at 8250'+/-.

Remove BOP, set tubing anchor, and install wellhead.

GIH with an 1-1/4" pump, 235 3/4" rods, and 103 7/8" rods. Hang well on pumping 7 - 7-1/2 SPM in the 120" stroke hole. Maximum predicted downhole stroke is 107", and 80% production capacity is 115 BFPD. Use rods from the Shipp 34-2 as available.

* FLUID SPECIFICATIONS

8,950 Gal 15% HCl Acid

2 gpt Corrosion Inhibitor
10 gpt Citric Acid
2 gpt Non-Ionic NE Agent