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NEW MEXICO OIL CONSERVATION COMMISSION

Form C-101
Revised 1-1-65

5A. Indicate Type of Lease STATE ☐ FEE XX

5. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work
DRILL XX DEEPEN ☐ PLUG BACK ☐

b. Type of Well
OIL WELL XX GAS WELL ☐ OTHER SINGLE ZONE ☐ MULTIPLE ZONE ☐

7. Unit Agreement Name

8. Farm or Lease Name
Warren

2. Name of Operator
David Fasken

9. Well No.
1

3. Address of Operator
608 First National Bank Building, Midland, Texas 79701

10. Field and Pool, or Wildcat
Wildcat

4. Location of Well UNIT LETTER G LOCATED 2080 FEET FROM THE North LINE
AND 1980 FEET FROM THE East LINE OF SEC. 8 TWP. 17-S RGE. 37-E NMPM

12. County
Lea

19. Proposed Depth	19A. Formation	20. Rotary or C.T.
12,000	Devonian	Rotary

21. Elevations (Show whether DF, RT, etc.)	21A. Kind & Status Plug. Bond	21B. Drilling Contractor	22. Approx. Date Work will start
3784.1 Grd.	Statewide	Warton Drilling Co.	May 25, 1979

23.

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
17-1/2"	13-3/8"	54.50	400	400	Surface
12-1/4"	8-5/8"	24 & 32	4500	1500	Surface
7-7/8"	4-1/2"	13.50 & 11.60	12000	1st Stage 900 2nd Stage 500	9000' 3800'

1. Copy of drilling and completion procedure is attached.

2. B.O.P. plan.

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. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

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

Robert H. Angevine

Signed Robert H. Angevine Agent Date 5/11/79

(This space for State Use)

APPROVED BY [signature] TITLE SUPERVISOR, DISTRICT I DATE MAY 14 1979

CONDITIONS OF APPROVAL, IF ANY:

RECOMMENDED DRILLING & COMPLETION PROCEDURE

A.F.E. NO. 432

David Fasken ---------- Warren No. 1 ------- Lea Co., New Mexico
Devonian Wildcat

1. Drill 17½" hole to 400 ft. with spud mud.

2. Set 13-3/8" casing at 400', cement to surface and install 12" - 3000 psi W.P. casinghead and B.O.P. stack. (Estimate 300 sxs. Halliburton Lite with 2% CaCl plus 100 sxs. Class "C" with 2% CaCl.)

3. Drill 12¼" hole with brine water to 4500 ft., control seepage with paper, run Drilprodco hole volume survey at 4200 ft.

4. Set and cement 8-5/8" casing at 4500 ft. with sufficient cement to circulate. (Estimate 1200 sxs. Halliburton Lite with 9# salt/sack and ¼# flocele/sack, slurry weight 12.4#/gal., plus 300 sxs. Class "C" with 2% CaCl, slurry weight 14.8#/gal.) W.O.C. time 18 hrs. Install 12" - 3000 psi W.P. x 10" - 3000 psi W.P. spool with secondary seal and bit guide, choke manifold, B.O.P.'s, and Hydril.

5. Before 9000 ft., test casing to 2300 psi and casing spool, B.O.P.'s, and choke manifold to 3000 psi, and Hydril to 1500 psi with Yellow Jacket.

6. Drill 7-7/8" hole to total depth of 11,900 ft. using fresh water to 7200 ft., use 4% KCl water to 10,200 ft., mud up with polymer starch mud with 8.7#/gal., 38-40 sec. viscosity, 10 cc water loss. At 11,000 ft. increase viscosity as necessary to maintain hole to total depth.

7. Drill stem test all shows below the Abo.

8. Run logs (CNL-FDC with Gamma Ray, DLL, Dip Meter, and BHC Integrated Sonic).

9. Set and cement 4½" oil string (resin coated and centralized through pay zone). First Stage: 900 sxs. Class "H" with 5# KCl per sack and 0.8% Halad 22, slurry weight 15.7#/gal. Second Stage: (with D.V. tool at approximately 5500') 500 sxs. Class "C", pump plugs down with fresh water, run temperature survey to locate cement top.

10. Install 10" - 3000 psi W.P. x 6" - 3000 psi W.P. tubinghead and Christmas Tree.

11. Rig down and move out rotary tools.

12. Set mast anchors, move in and rig up pulling unit and reverse drilling unit, drill D.V. tool and clean out to float collar.

13. Test casing to 3000 psig.

14. Displace fluid in tubing and tubing-casing annulus with 2% KCl water and spot acid over proposed perforating interval, pull tubing.

15. Perforate pay zone and displace acid.

16. Run hookwall packer and seating nipple on tubing and swab test well.

17. Further stimulate based upon swab tests.

18. Test and evaluate.

19. Pull tubing and packer.

20. Rerun tubing with appropriate bottom hole equipment for either hydraulic pumping or rod pumping.

21. Lay flow line and build tank battery, install electric service.

22. Put well on production and test.

23. Clean up location and level reserve pit.

RHA: 5/11/79

HENRY ENGINEERING

SUBJECT: BLOWOUT PREVENTER STACK

FILE:

DATE:

ENGINEERING MEMORANDUM