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NEW MEXICO OIL CONSERVATION COMMISSION

Form C-101
Revised 1-1-65

5A. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
5. State Oil & Gas Lease No. B-2317

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		7. Unit Agreement Name
b. Type of Well OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		8. Farm or Lease Name Hale State
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 UNDESIGNATED Midway New
4. Location of Well UNIT LETTER J LOCATED 2310 FEET FROM THE South LINE AND 1650 FEET FROM THE East LINE OF SEC. 8 TWP. 17-s RGE. 37-e NMPM		12. County Lea
13. Proposed Depth 12,000'		14A. Formation Devonian
15. Elevations (Show whether DF, RT, etc.) 3780.7' Ground		20. Rotary or C.T. Rotary
21A. Kind & Status Plug. Bond Statewide	21B. Drilling Contractor Not available	22. Approx. Date Work will start March 1, 1980

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"	48	400'	300	Surface
12-1/4"	8-5/8"	24 & 32	4,500'	1,600	Surface
7-7/8"	4-1/2"	11.60 & 32.50	12,000	1,720	4000'

Proposed drilling & completion procedure is attached.

Schematic drawing of proposed B.O.P. stack is attached.

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.

Signature: *Robert H. Angevine* Date: 1-28-80
(This space for State Use)

SUPERVISOR DISTRICT 1

FEB 5 1980

APPROVED BY: *[Signature]* TITLE: DATE:
CONDITIONS OF APPROVAL, IF ANY:

**NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form O-104
Supersedes O-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section

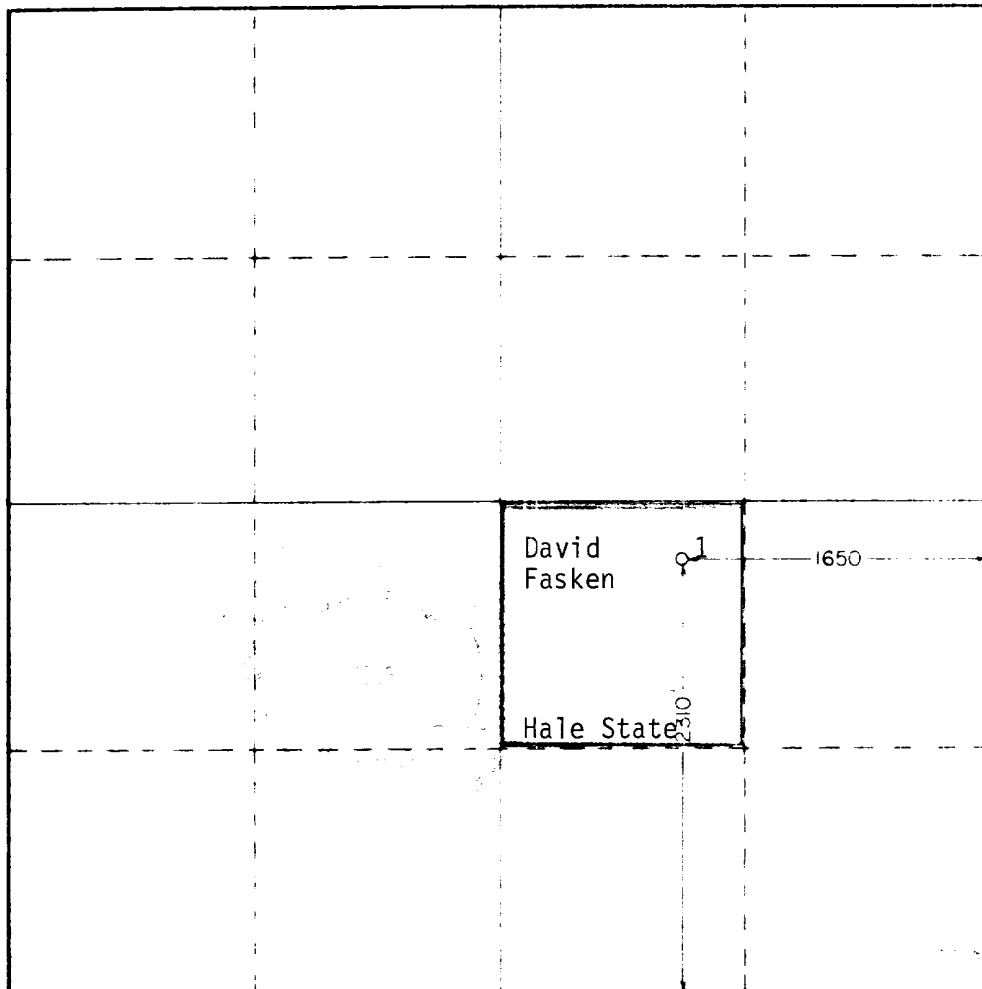
Operator David Faskin		Lease Hale State		Well No. 1
Section Letter J	Section 8	Township 17 South	Range 07 East	County Lea
Actual Well Location of Well: 2310 feet from the South line and 1650 feet from the East line				
Ground Level Elev. 3780.7	Producing Formation Devonian	Well Name Midway	Dedicated Acreage: 40 Acres	

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 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?

☐ 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 Commission.



CERTIFICATION

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

Robert H. Angevine, Agent

Robert H. Angevine
Signature
DAVID FASKEN

Company
1-28-80

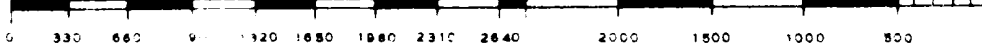
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

January 3, 1980

Registered Professional Engineer
In the State of New Mexico

John W. West
Signature

Certified by **John W. West** 676
Ronald J. Eidson 3239



RECOMMENDED DRILLING & COMPLETION PROCEDURE

A.F.E. NO. 450

David Fasken ----- HALE STATE NO. 1 ----- Lea County, New Mexico

1. Drill 17-1/2" hole to 400' 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 12-1/4" hole with brine water to 4500', control seepage with paper, run Drilprodco hole volume survey at 4200'.
4. Set and cement 8-5/8" casing at 4500' with sufficient cement to circulate. (Estimate 1400 sxs. Halliburton Lite with 15# salt/sack and 1/4# Flocele per sack, slurry weight 12.4#/gal., plus 200 sxs. Class "C" with 2% CaCl, slurry weight 14.8#/gal.) W.O.C. time 18 hours. 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', 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' using fresh water to 7200', use 4% KCl water to 10,200', mud up with polymer starch mud with 8.7#/gal., 38-40 sec. viscosity, 10 cc water loss. At 11,000' 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 4-1/2" oil string (resin coated and centralized through pay zone):

 First Stage: 350 sxs. Class "H" - Halliburton Lite w/6# KCl/sx., 0.6% Halad 22, 0.4% CFR-2, 1/4# Flocele/sx., plus 500 sxs. Class "H" w/3# KCl/sx., 0.8% Halad 22, 0.4% CFR-2, 1/4# Flocele/sx.

 Second Stage: With D.V. tool at approximately 8,500' 720 sxs. Class "C" - Halliburton Lite w/6# KCl/sx., 0.6% Halad 22, 0.4% CFR-2, 1/2# Flocele/sx. plus 150 sxs. Class "C" neat. 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.

HENRY ENGINEERING

SUBJECT: BLOWOUT PREVENTER

FILE: _____

STACK

DATE: _____

ENGINEERING MEMORANDUM

