

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

N.M. Oil Cons. Division
P.O. Box 1980
Hobbs, NM 88241

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT - " for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator
Enron Oil & Gas Company

3. Address and Telephone No.
P.O. Box 2267 Midland, TX 79702 915/686-3714

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
660' FNL & 1980' FWL
Sec. 1-T25S-R33E

5. Lease Designation and Serial No.

NM 30400

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Hallwood 1 Federal No. 1
Com.

9. API Well No.

30-025-31649

10. Field and Pool, or exploratory Area

Vaca Draw (Wolfcamp)

11. County or Parish, State

Lea County NM

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- | | |
|---|--|
| <input type="checkbox"/> Abandonment | <input type="checkbox"/> Change of Plans |
| <input checked="" type="checkbox"/> Recompletion | <input type="checkbox"/> New Construction |
| <input checked="" type="checkbox"/> Plugging Back | <input type="checkbox"/> Non-Routine Fracturing |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Altering Casing | <input type="checkbox"/> Conversion to Injection |
| <input type="checkbox"/> Other | <input type="checkbox"/> Dispose Water |

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

1. Plugback and temporary abandon Pitchfork Ranch (Morrow).
2. Recomplete in Vaca Draw (Wolfcamp).

(see attachments)

*Need to Submit C102 designating acreage for Wolfcamp.
370 acres*

14. I hereby certify that the foregoing is true and correct

Signed Mike Francis Title Mike Francis, Agent Date 03/24/99

(This space for Federal or State office use)

Approved by (ORIG. SGD.) DAVID R. GLASS Title PETROLEUM ENGINEER Date APR 01 1999
Conditions of approval, if any:

**HALLWOOD "1" FED. COM. NO. 1
PROCEDURE TO RECOMPLETE IN WOLFCAMP
FINAL VERSION**

Well Information

Location:	660' FNL & 1,980' FWL	AFE No.:	101655
	Section 1, T25S, R33E	TD:	15,535' (15,500' PB)
	Pitchfork Ranch Morrow Field	KB:	3,493' (28' ↑ GL)
	Lea County, New Mexico	AFE Cost:	\$148,000

Casing: 16" 65 lb/ft H-40 ST&C @ 657' cmt circ
 10-3/4" 40.5 & 45.5 lb/ft K-55 & S-80 ST&C @ 5,125' cmt circ
 7-5/8" 29.7 & 33.7 lb/ft S-95 Butt & LT&C @ 13,300'
 TOC @ 7,500' by temperature survey
 3-1/2" 12.52 lb/ft N-80 FL-4S from 15,535' to 14,344'
 3-1/2" 12.95 lb/ft N-80/L-80 PH6; P-105 PH6-CB/PH6 14,343' to surface
 TOC 3-1/2" casing @ 14,410' by cement bond log

Liner: 5-1/2" 23 lb/ft P-110 ABFL-4S @ 13,038' – 14,708' no circ
 Liner top squeezed w/200 sx Class "A" cement

Proposed Perforations: Wolfcamp 13,660' - 74'; 13,678' - 80'


Procedure to Recomplete in Wolfcamp Carbonate

- 1) Pump 1,000 gallons methanol w/5 gpt Lo-Surf 300 & 5 gpt Cla-Sta XP down 3-1/2" tubing to protect Morrow "A" zone.
- 2) Shut in Morrow "A".
- 3) Rig up Baker Hughes (Wedge) cased hole unit, lubricator and pack off. RIH w/gage ring on electric line to 14,750'.
- 4) Lubricate in Baker 10K CIBP on electric line and set @ 14,750' in order to cover Morrow "A" perforations.
- 5) Load 3-1/2" casing w/nitrogen and pressure test CIBP to 5,000 psig surface pressure.
NOTE: check 3-1/2" casing for leaks by monitoring 3-1/2" x 7-5/8" annulus!
- 6) Make one dump bailer run and dump 20' cement on CIBP.
- 7) Load hole w/10 lb/gal brine.
- 8) MIRUPU. ND tree, NU BOPs.

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HALLWOOD "1" FED. C M. No. 1
Procedure to Recomplete in Wolfcamp
Page 2 of 2

- 9) RU Baker Hughes (Dialog). Run freepoint on 3-1/2" casing (should be somewhere above cement top @ 14,400').
- 10) Pressure up to $\pm 1,000$ psig on 3-1/2" casing. Back off 3-1/2" casing above freepoint. Attempt to back off second joint of PH6 thread above cross-over, approximately @ 14,283'. **NOTE: 11.7 lb/gal mud is behind 3-1/2" casing!**
- 11) Circulate hole w/2% KCL water w/1 gpt surfactant.
- 12) Pull 3-1/2" casing and stand back. Lay down and inspect 3-1/2" casing if necessary.
- 13) PU and RIH w/5-1/2" 10,000 psig big bore packer and 3-1/2" tubing. Set packer @ 13,550' \pm . Pressure test tubing to 2,000 psig, then pressure test backside to 2,000 psig.
NOTE: may want to test tubing in the hole to 10,000 psig depending on condition
- 14) Spot sand plug using 20/40 brady sand and 30 lb/gal gel over 3-1/2" stub @ $\pm 14,283'$. Top of sand plug should be approximately 14,000'.
- 15) ND BOPs, NU 10,000 psig tree.
- 16) RU Baker Hughes cased hole unit. Install 10,000 psig lubricator and grease equipment.
- 17) RIH w/2-1/8" HSC w/Predator charges and perforate Wolfcamp interval from 13,660' to 13,674' & 13,778' - 80' w/2 SPF and 60° phasing. **Allow surface pressure to build up and record pressure before proceeding.** RIH w/BHP bomb if desired.
NOTE: perforations are taken from Compensated Z-Densilog/Neutron log run 10/21/92
- 18) Open well to frac tank. Unload KCL water and flow test well. Get pre-frac test rate.
- 19) RU Service company. Acid/frac w/10,000 gallons and CO2 if warranted.
- 20) Flow back and evaluate Wolfcamp zone.


Hal Crabb, III
03/22/99

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