

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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, Texas 79702

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

660' FNL & 1980' FWL
Sec 4, T25S, R34E

5. Lease Designation and Serial No.

NM 16139

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Vaca Ridge 4 Fed Com. #1

9. API Well No.

30 025 28491

10. Field and Pool, or Exploratory Area

Pitchfork Ranch Morrow

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

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other Recompletion
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ 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.)*

Recompletion & frac job of existing Morrow "A" perfs 14,420'-14,426'

See attached

5-18-94 24 hrs flowed 2700 MCF, 57/64"chk, FTP 850, CP 650.

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

Signed Betty Gildon

Title Regulatory Analyst

Date 5/19/94

(This space for Federal or State office use)

Approved by _____

Title _____

Date _____

Conditions of approval, if any:

RECEIVED

NOV 11 1964

U.S. MARINE
OFFICE

VACA RIDGE 4 FEDERAL COM NO.1
660'FNL,1980'FWL,4-25S-34E
LEA Co., NM
Spud Date:

D&C: 1,500' MORROW
DEV EOG%: 58.1709%
AFE No.: 10-0431
DHC: 0; CWC: 288,000

04/30/94 1 hrs SITP 100 psi. MIRU HLS slick line, mast truck, 5,000 psi lubricator. 2 hrs RIH w/1.75" OD OS w/1" grapple, shear down tool, spang jars, oil jars, 8' of 1-1/2" stem on slick line. Sat down @ 14,923' (no KB correction), could not get over fish. Work OS trying to get over fish, no success, POH, LD OS, no marks on OS. 1-1/2 hrs RIH w/1.75" OD OS, shear up tool, knuckle jt, spange jars, oil jars, 8' 1-1/2" stem, tool wt 375 lb. SD again @ 14,923'. Worked tool hard trying to get over fish. May have gotten a couple of friction bites, oil jars went off. Tools appear to not be getting on top of fish. POH, LD tools, all string still intact, no marking on inside of OS, possibly one scrape on OD. Baker thinks tool is setting on debris or fill above fish due to lack of marks on tool, believes we are not going beside fish. 3/4 hrs RIH w/1.85" OD impression block. Only mark on block is small dull impression on side. Did not set on metal, Baker thinks we set on fill. 1 hr RIH w/2.00" OD downjar bailer (w/2 witness marks on ID) to bail fill off fishing neck. POH, bailer empty, no marks on inside or outside, btm lip of bailer shiny. 1-1/2 hrs RIH w/1.75" OD junk basket. Worked on tool on top of fish. POH, nothing in JB, no marks on tool. 1-1/2 hrs RIH w/1.85" OD OS and shear up tool, attempt to get back on fish, no success. 1 hr WOO. RD slick line, SION. DWC \$1,930. CWC \$22,833.

05/02/94 DWC \$1,930. CWC \$22,833.

05/03/94 No Report.

05/08/94 4-1/4 hrs RU Howco pump truck & nitrogen truck. Test lines to 8,600 psi. Pumped pad 170,000 SCF/N2 @ 3,000 SCF/min. Pressure steadily climbed from 1,200 psi (SITP) to 7,500 psi. SD N2. Pumped 30 bbls 4% KCL gel w/20/40 brown sand @ 1.5 to 2.5 BPM. Pressure declined to 6,535 psi. Displaced w/60,000 SCF/N2, final pressure 5,560 psi. Max press 7,500 psi, min press 2,145 psi; avg press 5,500 psi. Average rate 2.5 BPM on fluid, 3,000 SCF/min on N2, gel 30 bbls, flush 26 bbls. N2 170,000 SCF/pad, N2 60,000 SCF/flush. DWC \$9,715. CWC \$32,548.

05/09/94 2-1/2 hrs SITP 2,700 psi, SICP 500 psi. RU HLS, TIH w/bars, tagged top of sand @ 14,587'. 2-1/2 hrs PU 20' of 1-9/16" dump bailer. 1st run CCL @ 14,549' when bailer dumped
2nd run CCL @ 14,540' when bailer dumped
3rd run CCL @ 14,531' when bailer dumped
4th run CCL @ 14,525' when bailer dumped.
1 hr RD HLS, TP 2,500 psi, CP 500 psi, SIW. Cmt used was Special Bond Cement in 4 separate kits, 24 hr compressive strength is in excess of 4,000 psi. DWC \$11,517. CWC \$44,065.

VACA RIDGE 4 FEDERAL COM NO.1

660'FNL,1980'FWL,4-25S-34E

LEA Co., NM

Spud Date:

D&C: 1,500' MORROW
 DEV EOG%: 58.1709%
 AFE No.: 10-0431
 DHC: 0; CWC: 288,000

05/12/94 SITP 2,427, CP 750; 5 hrs MIRU Howco, Lay & test lines to 11,000 psi; frac Morrow A zone w/28,672 gals 60 Quality CO2 Alco-foam & 20,000# 20/40 Interprop plus as follows:
 Stage 1 1500 gals MOD 101, 8 BPM, 6600 psi
 Stage 2 3000 gals gel (spacer) 9.2 BPM, 10600 psi
 Stage 3 15000 gals gel (pad), 15.9 BPM, 10518 psi
 Stage 4 1971 gals gel, 15.6 BPM, 10650 psi
 w/0.5-1.5 ppg prop
 Stage 5 2011 gals gel, 16.2 BPM, 10790 psi
 w/1.5 ppg prop
 Stage 6 2050 gals gel, 15.7 BPM, 10972 psi
 w/2.0 ppg prop
 Stage 7 2050 gals gel, 14.0 BPM, 10680 psi
 w/2.5 ppg prop
 Stage 8 1890 gals gel, 12.5 BPM, 10800 psi
 w/3.0 ppg prop
 Stage 9 700 gal gel flush, 8 BPM, 11100 psi
 screened out
 Avg rate 15 BPM, avg press 10,616 psi, max press 11,750 psi, ISIP 9,907, 5 min 6,837, 10 min 5,270, 15 min 4,312; BLTR 339 (203 bbls methanol, 136 bbls water) total CO2 pumped 72 tons; max annular press 4,100 psi, tag all prop w/0.5 millicurie/1000#
 w/Iridium-192; RD Howco; 2 hrs well SI wait for gels to break, SITP 850, CP 0; open well to tank; 7 hrs well flowing on 16/64" chk; TP 20; CP 600; rec 20 bbls wtr & heavy sand; 2 hrs SI well BU TP 140, CP 650; open well to tank; 8 hrs flowing @ 18/64" chk; TP 0, CP 650; no fluid; Cudd coil tbg unit RU on well this am; DWC \$96,160. CWC \$206,914.

05/13/94 13 hrs MIRU CTU, TIH jetting well, FL 8,000', jet water to 11,050', well blew dry, jet well to 14,450' (perfs 14,420'-26'); rec'd no sand, TOH w/coil tbg, SD N2, RD Cudd, total wtr rec'd 15 bbls wtr; @ 6:00 am SITP 650, CP 500. DWC \$9,798. CWC \$217,521.

05/14/94 24 hrs SIBP, SITP 650, CP 500. CWC \$217,521.

05/15/94 SITP 690, CP 500; 6 hrs MIRU Schlumberger WL; RIN to run tracer log across frac treated interval 14,420'-426'; tag sand bridge @ 13,986'; found FL @ 11,050' w/logging tool; TOH RD Schlumberger; found FL @ 11,050' w/logging tool; 6 hrs open well to tank to tbg; lift sand bridge, well died no sand recovered; 12 hrs SI well, will jet well. DWC \$3,540. CWC \$221,061.

05/16/94 24 hrs SITP 600, CP 630, well SI, foam jet sand bridge. CWC \$221,061.

05/17/94 SITP 700 psi, CP 630 psi. 13 hrs MIRU Cudd CTU, TIH foam jetting well, FL 11,050' found sand bridge @ 13,986' to 14,010'. Foam jet to 14,450' jet out sand, SD foamer. Jet well dry with N2, TOH to 13,000', SD N2. 11 hrs well flowing to tank, 30/64" choke, TP 100 psi, CP 630 psi, rec 78 BW, 0 BO. DWC \$10,200. CWC \$231,261.