

Submit 3 Copies To Appropriate District  
Office  
District I  
1625 N. French Dr., Hobbs, NM 87240  
District II  
1301 W. Grand Ave., Artesia, NM 88210  
District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals and Natural Resources

Form C-103  
May 27, 2004

OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

WELL API NO. <b>30-025-32385</b>
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name: <b>Bertha Barber</b>
8. Well Number <b>14</b>
9. OGRID Number <b>014021</b>
10. Pool name or Wildcat <b>Eumont (Y, SR, ON)</b>

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other
2. Name of Operator <b>Marathon Oil Company</b>
3. Address of Operator <b>P.O. Box 3487 Houston, TX 77253-3487</b>
4. Well Location Unit Letter <b>M</b> : <b>330</b> feet from the <b>South</b> line and <b>730</b> feet from the <b>West</b> line Section <b>32</b> Township <b>19-S</b> Range <b>37-E</b> NMPM County <b>Lea</b>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) <b>3572' GL KB: 3585</b>
Pit or Below-grade Tank Application <input type="checkbox"/> or Closure <input type="checkbox"/>
Pit type _____ Depth to Groundwater _____ Distance from nearest fresh water well _____ Distance from nearest surface water _____
Pit Liner Thickness: _____ mil Below-Grade Tank: Volume _____ bbls; Construction Material _____

12. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPLETION <input type="checkbox"/>
OTHER: <input type="checkbox"/>	

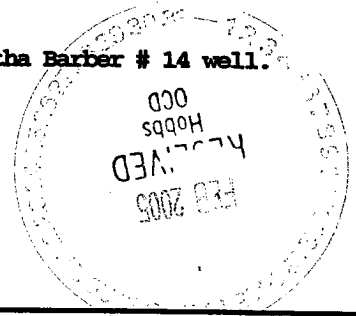
SUBSEQUENT REPORT OF:

REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
CASING TEST AND CEMENT JOB <input type="checkbox"/>	
OTHER: <b>Add Perfs, acidize and Sand Frac</b>	<input checked="" type="checkbox"/>

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Marathon has completed operations to add perfs, acidize, and sand Frac the Bertha Barber # 14 well.  
Please see the attached document describing the work performed.

Note: The perfs were added in the Upper Eumont.



I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCDC guidelines ☐ , a general permit ☐ or an (attached) alternative OCD-approved plan ☐

SIGNATURE Charles E. Kendrick TITLE Engineering Technician DATE 02/08/2005  
E-mail address: cekendrix@marathonoil.com  
Type or print name Charles E. Kendrick Telephone No. 713-296-2096

For State Use Only

APPROVED BY [Signature] TITLE PETROLEUM ENGINEER DATE FEB 21 2005  
Conditions of Approval, if any:

**Bertha Barber No. 14**

**Unit M. Section 32, T-19-S, R- 37-E**  
**Lea County, New Mexico**

- 05/22/2004** Rig Up Service Unit
- 05/24/2004** RU to pull rods and pump. Pump stuck. Rods parted. POOH w/ 51-3/4" Rods and 10-5/8" Rods. Nipple down well head. Install BOPE. Pull Tubing loose. Strip out of Hole w/ 111 Jts 2-3/8" Tubing and Rods. RIH w/ Bit, Casing scraper and Tubing to 3500'. POOH w/ 16 Jts tubing.
- 05/25/2004** POOH and lay down remaining 95 Jts 2-3/8" tubing, Casing scraper, and Bit. RU Perforating Equipment. RIH w/ wireline. Replaced collar Locator and set CIBP @ 2970'. Load Casing with 47 bbls 2% KCL water to load casing. Pressure test casing, RBP and BOPE to 3000 psi. Held pressure. RIH with perforating Gun. POOH perforating gun would not fire.
- 05/26/2004** RIH w/ 3-1/8" Carrier select fire w/2 JSPF, 120 deg phasing w/ collar locator. Perforate 2851', 2819', 2781', 2750', 2741', 2705', 2676', 2666', 2643', 2629', 2622', 2597', 2550', 2544', 2538', 2529', 2517', 2502', 2493' and 2476'. RIH w/ PPI packer and 2-3/8" work string.
- 05/27/2004** RU Halliburton Acid equipment. Set and pressure test packer. Packer set @ 2848'-2854' Acidize f/ 2851'-2476' w/ 2100 gallons 15% HCL acid @ 2 BPM @ 3000 psi ISDP = 1800 psi. POOH w/ PPI packer. Remove BOPE. Install frac valve. RIH w/ RBP. Set RBP. Pressure Test frac Valve to 3000 psi Held pressure. Retrieve RBP. Shut in Frac Valve.
- 05/28/2004** Prepare location for Sand fracture.
- 05/31/2004** RU Halliburton Frac equipment. Sand fracture f/ 2476'to 2851' w/ 1718 bbls 50% foam gel@ 30.5 BPM@ 2300 psi. ISDP=1638 psi
- 06/01/2004** RU equipment to flow well/formation frac load back.
- 06/02/2004** Continue to flowback frac load. Well flowing @ 65 bbl/hr rate. Open well to full open choke. Well died.
- 06/03/2004** Open well up on 36/64"choke. Well flowing @ 40 bbl/hr rate. Open well to full open choke w/ tubing pressure @ 180 psi. Well died.
- 06/04/2004** Open well up on full open choke. Well flowing CO2 gas no fluid with tubing pressure @ 0 psi. CO2 @ 35%. Well died. Total recovery = 1528 bbls frac load.
- 06/07/2004** RU equipment to flow well formation frac load back. Open well up on 38/64" choke. Well flowing @ 60 bbl/hr rate. Open well to full open choke. Well died.

**Bertha Barber No. 14**

**Unit M. Section 32, T-19-S, R- 37-E**

**Lea County, New Mexico**

- 06/08/2004** Remove frac valve. Install BOPE. RIH w/ 3-7/8" bit, 4 DC, and 91 Jts Tubing to 2897'. Tagged sand fill. RU Swivel. Circulate reverse w/ 2% KCL water. Circulate sand fill out of well f/ 2897' to 2969' on top of CIBP ( 2970' wireline). POOH w/ Tubing, DC, and bit. RIH w/ Seating nipple and 80 jts tubing to 2465'.
- 06/09/2004** Swab well. RIH tag sand fill @ 2961'. POOH w/ 97 Jts tubing, and seating nipple. RIH w/ 1 joint open ended, cavens desander, seating nipple and 93 Jts 2-3/8" tubing. Seating nipple @ 2866'. Bottom of tubing @ 2901' Remove BOPE. Flange up well head. RIH w/ rod insert pump and 112 -3/4" rods w/ grade T couplings. Seat pump. Hang well on.