

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>30-025-37027</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>Dayton Hardy</b>
8. Well Number <b>5</b>
9. OGRID Number <b>14021</b>
10. Pool name or Wildcat <b>Penrose Skelly Grayburg (50350)</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 checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/>	11. Elevation (Show whether DR, RKB, RT, GR, etc.) <b>3491' GL</b>
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>J</b> : <b>1800'</b> feet from the <b>South</b> line and <b>1500'</b> feet from the <b>East</b> line Section <b>20</b> Township <b>21-S</b> Range <b>37-E</b> NMPM County <b>Lea</b>	
Pit or Below-grade Tank Application <input type="checkbox"/> or Closure <input type="checkbox"/> Pit type <b>Dr</b> Depth to Groundwater _____ Distance from nearest fresh water well _____ Distance from nearest surface water _____ Pit Liner Thickness: <b>12</b> mil Below-Grade Tank: Volume _____ bbls; Construction Material _____	

12. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data	
<b>NOTICE OF INTENTION TO:</b> 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"/>	<b>SUBSEQUENT REPORT OF:</b> 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>Acidize, Frac, Start to Production</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 Oil Company has completed work to complete the Dayton Hardy No 5 in the Penrose Skelly Grayburg. Please see attachment for details of acid job, frac job, and production start up for new well.**

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 NMOCD guidelines ☒ , a general permit ☐ or an (attached) alternative OCD-approved plan ☐

SIGNATURE Charles E. Kendrick TITLE Engineering Technician DATE 07/19/2005

Type or print name **Charles E. Kendrick**

E-mail address: cekendrix@marathonoil.com  
Telephone No. **713-296-2096**

**For State Use Only**

APPROVED BY [Signature] TITLE PETROLEUM ENGINEER DATE JUL 27 2005  
Conditions of Approval, if any:

# **Dayton Hardy No 5** **Perforate, Acidize, Frac, and Start Producing Grayburg**

**06/09/2005** Rig up Baker Hughes Perforating equip. Tested BOPE, blinds and rams. RIH w/ gamma ray collar locator. Tagged PBTD @ 4062'. Correlated to Haliburton spectral density log f/ 06/04/2005. Perforated 5 1/2" production casing w/ 3 1/8" Select fire guns 311T w/ 23 gram charges w/ 2JSPF, 120° phasing in seven gun runs as follows:

Interval	Ft in Int.	Shots
3708' – 3710	2'	4
3724' – 3726'	2'	4
3735' – 3740'	5'	10
3774' – 3778'	4'	8
3850' – 3852'	2'	4
3882' – 3885'	3'	6
3891' – 3894'	3'	6
3925' – 3927'	2'	4
3934' – 3938'	4'	8
3940' – 3942'	2'	4
3944' – 3950'	<u>6'</u>	<u>12</u>
Totals	<u>35'</u>	<u>70 shots</u>

Pressure casing to 1300 psi broke down perms. Pumped 4 bbls water established rate of 4 bbls / min. Pumped 500 gals 15% HCL acid displaced w/ water to bottom perms.

**06/16/2005** RU Haliburton . Tested lines to 5000 psi. Acidized Grayburg interval w/ 100 bbls 7 1/2% HCL acid @ 10 BPM @ 1133 psi. Flush w/ 108 bbls water. RU Haliburton frac job, tested lines to 5000 psi. Establish injection rate of 54 bbls BPM. Pumped 621 bbls pad, 121 bbls 1#/gal sand, 167 bbls 2#/gal sand, 168 bbls 3#/gal sand, 169 bbls 4#/gal sand, 193 bbls 5#/gal sand, 231 bbls 6#/ gal sand. Pumped 82 bbls flush. Pumped total 156,940 lbs Premium Brown 20/40 sand w/ Haliburton additive Expedite 225 Flow Back Control added.

**06/17/2005** Opened tubing 0 psi. RIH w/ 4 3/4" blade bit, but sub, & 128 jts 2 7/8" tubing. Tag top of fill @ 3961'. PUH w/ 12 jts 2 7/8" tubing. Bit swinging above perforations.

**06/20/2005** RIH tagged sand @ 3961'. Circulate san out f/ 3961' to 4003'. Started losing circulation. POOH w/ 128 jts 2 7/8" tubing, bit sub, and bit. RIH w/ 3 1/8" bailer on 92 jts 2 7/8" tubing.

- 06/21/2005**    **RIH tag top of fill @ 4003' Clean out sand f/ 4003 to 4060'. PBTD @ 4062'. POOH laid down bailer. RIH w/ mud joint, seating nipple, special alloy joint, 2 jts 2 7/8' tubing, 5 1/2" tubing anchor, & 114 jts 2 7/8" tubing. TAC @ 3550', Seating Nipple @ 3643', bottom of tubing @ 3674'. All above top perforation.**
- 06/22/2005**    **RIH w/ 2" rod insert pump, 10 --- 1" steel rods, 94 --- 7/8" steel rods, and 40 ---- 1" steel rods. Seat and space pump. Hang well on. Load and test pump. Start well to production.**