

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

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

Form C-103
May 27, 2004

WELL API NO. 30-025-36963
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: Dayton Hardy
8. Well Number 4
9. OGRID Number 14021
10. Pool name or Wildcat Penrose Skelly Grayburg (50350)

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	2. Name of Operator Marathon Oil Company
3. Address of Operator P.O. Box 3487 Houston, TX 77253-3487	4. Well Location Unit Letter <u>J</u> : <u>2310</u> feet from the <u>South</u> line and <u>2310</u> feet from the <u>East</u> line Section <u>20</u> Township <u>21-S</u> Range <u>37-E</u> NMPM County <u>Lea</u>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3500' GL	
Pit or Below-grade Tank Application <input type="checkbox"/> or Closure <input type="checkbox"/> Pit type <u>Dr</u> Depth to Groundwater <u>>100'</u> Distance from nearest fresh water well <u>>1000'</u> Distance from nearest surface water <u>>1000'</u> Pit Liner Thickness: <u>12</u> 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 ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPLETION ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐
CASING TEST AND CEMENT JOB ☐

OTHER: Perforate, Acid, Frac, and start Producing ☒

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 operations to perforate, acid, sand frac, and bring the Dayton Hardy No. 4 online to production. Please see attachment for details of well work performed.

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

SIGNATURE Charles E. Kendrix TITLE Engineering Technician DATE 07/05/2005

Type or print name Charles E. Kendrix

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

For State Use Only

APPROVED BY [Signature] TITLE PETROLEUM ENGINEER DATE JUL 14 2005

Conditions of Approval, if any:

Dayton Hardy No. 4
Perforate, Acidize, and Frac



06/02/2005 Rigged Up Baker Atlas Perforating equipment. Assemble 3 1/8" select fire gun carrier w/ 311T W/23 gram charges w/ 2 JSPF, 120° phasing w/ collar locator, .38 diameter round. PU and pressure tests lubricator, well head, BOPE, and 5 1/2" casing to 1000 psi. Load hole with Acedic acid from 4100' (wireline PBSD) to 3500'. RIH w/ guns on wireline and perforated in 6 intervals w/ 6 runs. Details as follows:

Top to Bottom Interval	Ft	Shots
3744' - 3754'	10'	20
3802' - 3806'	4'	8
3862' - 3866'	4'	8
3922' - 3924'	2'	4
3931' - 3933'	2'	4
3946' - 3950'	4'	8
Totals	26'	52 shots

Rigged down Baker Atlas perf equipment. RU kill truck. Load 5 1/2" Casing. Pressure casing to 1390#. Broke down perforations. Pumped 14 bbls water and established rate of 6.5 BPM @ 1350 psi. Switched to acid, and pumped 500 gals 15% HCL Acid. Displaced acid to bottom of perfs with water. Pumped 94 bbls water.

06/04/2005 Rigged up Haliburton acidizing equipment. Tested lines to 5000 psi. Load casing w/ 53 bbls water. Break down perforations @ 2734 psi. Establish injection rate 32 BPM @ 1486 psi. Pumped 165 bbls water. Acidize Grayburg interval 3744' to 3950' w/ 4412 gals 7 1/2% HCL Acid. Tested line to 5000 psi. Start pumping frac job. Break down perforations at 54.6 BPM @ 2470 psi. Pumped pad 618 bbls. Pumped 121 bbls 1#/gal sand. Pumped 166 bbls 2#/gal sand. Pumped 167 bbls 3# / gal sand. Pumped 166 bbls 4# / gal sand. Pumped 190 bbls 5#/gal sand. Pumped 197 bbls 6#/gal sand. Pumped 83 bbls flush. Shut in frac valve. Rigged down tree and Haliburton frac equipment. Total load to recover 2095 bbls acid and frac load. Frac totaled 156,874 lbs Premium Brown 20/40 Sand w/ Expedite 225 Flow back control added. Well on vacuum. SI

06/07/2005 Blown down pressure. Changed out BOPE stack. RIH w/ 4 3/4" Blade Bit, bit sub, and 121 jts 2-7/8" tubing. Tag top of sand @ 3939' RU power swivel cleaned out hole to PBSD 4110' (tubing tally) w/ 128 jts in. RD power swivel. PUH w/ jts above top perfs and SI.

- 06/08/2005** Check tubing pressure = 300 psi. Bleed well down. Kill well. RIH tag PBTD @ 4110'. POOH w/ tubing, bit sub, and bit. RIH w/ mud joint, seating nipple, special alloy joint, 2 jts 2-7/8" tubing, tubing anchor, 111 joints 2-7/8" tubing. TAC @ 3593'. Seating nipple @ 3691', and bottom of tubing @ 3721'. (23' above top perf) Install well head. SI
- 06/09/2005** Blow down 170 psi on tubing. Kill well. RIH w/ 2" insert pump, 10 – 1" steel rods, 94 – 7/8" steel rods, 41 – 1" steel rods. Seat and test pump action, hang off well. SI waiting on electricity to pumping unit.
- 06/10/2005** Electricity run to pumping unit. Turned on unit and check pump action. Put well into production . Rigged down.

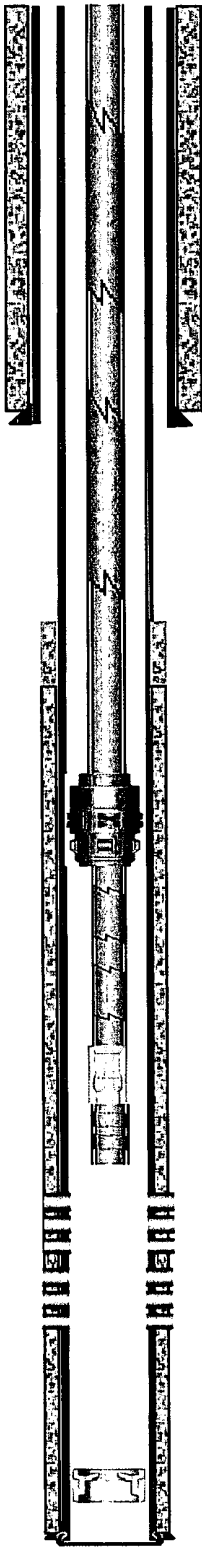




Dayton Hardy No. 4
New Well



Marathon Oil Company
Dayton Hardy No. 4
UL"J", Sec 20, T-21-S, R-37-E
10-Jun-05



Surface Casing
8 5/8" 24# K-55 set @ 406' w/ 260 sks cmt.
Cmt to surface

Top of any cement (CBL) on
production casing 1941'

Top of good cement (CBL) on
production casing @ 2462'

Tubing Anchor @ 3593'

Seating Nipple @ 3691'

Bottom of tubing @ 3721'

Penrose Skelly Grayburg Perforations
3744' to 3950'

PBTD 4120 float collar

Production Casing
5 1/2" 17# Set @ 4145' Cmt w/ 1400 sks

TD 4145'

Well Name & Number:	Dayton Hardy No. 4		Lease	Dayton Hardy	
County or Parish:	Lea	State/Prov.	New Mexico	Country:	USA
Perforations: (MD)	3744' to 3950'		(TVD)	4145'	
Date Completed:	06/10/05				RKB:
Prepared By:	Charles Kendrix		Last Revision Date:	07/05/05	