

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>30-025-29468</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>Mark Owen</b>
8. Well Number <b>9</b>
9. OGRID Number <b>14021</b>
10. Pool name or Wildcat <b>Penrose Skelly Grayburg (50350)</b>

11. Elevation (Show whether DR, RKB, RT, GR, etc.)  
**GL 3383'**

Pit or Below-grade Tank Application ☐ or Closure ☐

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 \_\_\_\_\_

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"/>
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>L</b> : <b>1830'</b> feet from the <b>South</b> line and <b>660'</b> feet from the <b>West</b> line Section <b>35</b> Township <b>21-S</b> Range <b>37-E</b> NMPM County <b>Lea</b>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) <b>GL 3383'</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: SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPLETION <input type="checkbox"/>	CASING TEST AND CEMENT JOB <input type="checkbox"/>	
OTHER: <input type="checkbox"/>		OTHER: <b>COMPLETE TO GRAYBURG</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 recently completed work to re-complete the Mark Owen No. 9 to the Penrose Skelly Grayburg pool. 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. Kendrick TITLE Engineering Technician DATE 11/05/2004

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 FEB 02 2005

Conditions of Approval, if any:

**2A Blinedry & Wartz Abc**

**Mark Owen No. 9**  
**Re-completion to the Penrose Skelly Grayburg**  
**Isolate Blinebry & Abo**

- 08/13/2004 Rigged up PU. Unseat pump and hot water tubing. POOH w/ rods and pump. Install BOP POOH w/ 96 jts 2 3/8" tubing. SI
- 08/16/2004 POOH w/ remaining tubing. RIH w/ 6 1/8" bit & 7" casing scraper on 237 jts. 2 3/8" tubing. Tag PBTB @ 7300'. POOH w/ 215 jts. SI
- 08/17/2004 POOH w/ remaining tubing. RIH w/ RBP on 145 jts 2 3/8" tubing. Set RBP @ 4520'. Circ hole w/ 140 bbls @ % KCL water. Test RBP & casing to 1000 psi. Drop ball catcher. SI
- 08/18/2004 Rig up wireline & perf from 3683' to 3800' in 4 gun runs w/ 3 1/8" slick gun w/ 311T 23 gram charges w/ 2 JSPF, 120 phasing using collar locator correlated to old logs in the following sequence:
- |               |    |                |
|---------------|----|----------------|
| 3683' – 3687' | 4' | 8 shots        |
| 3701' – 3705' | 4' | 8 shots        |
| 3720' – 3724' | 4' | 8 shots        |
| 3737' – 3741' | 4' | 8 shots        |
| 3745' – 3749' | 4' | 8 shots        |
| 3765' – 3769' | 4' | 8 shots        |
| 3778' – 3784' | 6' | 12 shots       |
| 3796' – 3800' | 4' | 8 shots        |
|               |    | 68 shots total |
- RIH w/ kill string. SI
- 08/19/2004 POOH w/ kill string. RIH w/ 2 7/8" work string & packer. Set packer @ 3868'. Load and test packer, RBP, & tubing to 1000 psi. PUH w/ packer to 3620' and reset. Tested casing annulus to 500 psi. SI
- 08/20/2004 RU Haliburton acid job. Acidize f/ 3683' – 3800' w/ 3077 gals 15% HCL acid @ 9 BPM. Dropped 120 ball sealers. Balled out perforations. Displaced w/ 40 bbls fresh water. Shut in well and rigged down Haliburton. Flowed back pressure and acid gas until well died. Opened packer by-pass and equalized well. Unset packer. RIH and retrieve ball catcher. POOH w/ work string and ball catcher. POOH laying down 2 7/8" work string. Install wellhead leaving 30 jts 2 7/8" kill string in well. SI waiting on frac.
- 08/23/2004 Rigged down Pulling Unit. Leave well shut in waiting on frac job.
- 09/08/2004 Rigged up PU. SI
- 09/09/2004 Kill well. Install BOP. Unload 3 1/2" work string. Set and load frac tanks.

09/10/2004 POOH w/ 2 7/8" kill string. Change pipe rams. RIH w/ packer, and 3 1/2" tubing. Hydro test tubing to 8000 psi. Set packer @ 3605' on 115 jts tubing. Load and test casing annulus to 1000 psi. SI

09/11/2004 RU Haliburton Frac equipment. Sand Frac f/ 3683' to 3800' w/ 847 bbls gel @ 28 BPM. Screened out sand on 4 ppg sand. Rig down Haliburton. SI

09/13/2004 RIH w/ sand line tag top of sand @ 3600'. POOH w/ sand line. Tried to pump into tubing. Pressured to 2200 psi could not pump. SI

09/14/2004 Install Enviro Pac Pan and Stripper head on BOP. Pressure casing to 500 psi. Unset packer. POOH laying down 3 1/2" work string & packer. RIH w/ 20 jts 3 1/2" tubing for kill string. SI

09/15/2004 POOH & lay down 3 1/2" kill string. RIH w/ bit, scraper, and 137 jts 2 7/8" tubing. Tagged top of sand fill @ 4243'. POOH RIH w/ mud joint, seating nipple, alloy joint, 2 jts tubing, tubing anchor, and 112 jts tubing. Bottom @ 3622'. SI

09/16/2004 Finnish running in hole w/ 2 jts 2 7/8" tubing. Total 117 above seating nipple. RIH w/ pump & rods. Seat pump. Space out pump. Load and test Tubing and pump action. Started well pumping to test tank. Secure well SI

09/17/2004 Left well producing to test tank. Rigged Down PU.

# Marathon Oil Company

## Perforating Report

Page 1 of 2

Legal Well Name: MARK OWEN NO 9  
 Common Well Name: MARK OWEN NO 9  
 Event Name: WORKOVER

Report #: 1  
 Start: 8/13/2004

Spud Date:  
 Report Date: 8/18/2004  
 End:

### General

Contractor: BAKER ATLAS  
 Job Method: PERFORATE  
 Perforated Assembly: PRODUCTION CASING

Supervisor: W. Holdridge  
 Conveyed Method: WIRELINE

### Initial Conditions

Fluid Type: KCL WATER  
 Surf. Pressure: (psi)  
 Fluid Level TVD: 200.0 (ft)  
 Hydro Pressure: 1,560 (psi)  
 Condition: NEUTRAL

Fluid Density: 8.34 (ppg)  
 Res. Pressure: 1,560 (psi) @ 3,800.0 (ft)  
 Fluid Head TVD: 3,600.0 (ft)  
 Pressure Diff.: 0 (psi)

### Summary

Gross Int.: 3,683.0 to 3,800.0 (ft)  
 # of Int.: 1  
 Total Shots: 68  
 AV Shot Dens.: 2.00 (/ft)

Start Date: 8/18/2004  
 End Date: 8/18/2004  
 Net Shot: 34.0 (ft)  
 Final Surface Pressure: (psi)  
 Final Surf. Pres. Date: 8/18/2004

Time: 10:00  
 Time: 11:30  
 Time: 12:00

### Perforated Intervals

Date/ Time	Formation / Pool Name	CCL @ (ft)	CCL-TS (ft)	TS-BS (ft)	Top (ft)	Base (ft)	S/(ft)	Add Shot/ Misfires	Diam. (in)	Can. Type / Carr. Manuf.	Cr. Size (in)	Phasing (°)	Charge Desc. / Charge Manuf.	Cg. Size (g)	Type / Reason	Misrun
2/25/2004 10:00	Grayburg	/ 3,680.0	3.00	4.00	3,683.0	3,687.0	2.00	/	0.410	Slick Gun	/	3.125	120.000	/		/
2/25/2004 10:00	Grayburg	/ 3,680.0	21.00	4.00	3,701.0	3,705.0	2.00	N /	0.410	Slick Gun	/	3.125	120.000	/		/ N
2/25/2004 10:30	Grayburg	/ 3,717.0	3.00	4.00	3,720.0	3,724.0	2.00	N /	0.410	Slick Gun	/	3.125	120.000	/		/ N
2/25/2004 10:30	Grayburg	/ 3,717.0	20.00	4.00	3,737.0	3,741.0	2.00	N /	0.410	Slick Gun	/	3.125	120.000	/		/ N
2/25/2004 11:00	Grayburg	/ 3,742.0	3.00	4.00	3,745.0	3,749.0	2.00	N /	0.410	Slick Gun	/	3.125	120.000	/		/ N
2/25/2004 11:00	Grayburg	/ 3,742.0	23.00	4.00	3,765.0	3,769.0	2.00	N /	0.410	Slick Gun	/	3.125	120.000	/		/ N

## Page 2 of 2

Report #: 1  
Start: 8/13/2004

Spud Date:  
Report Date: 8/18/2004  
End:

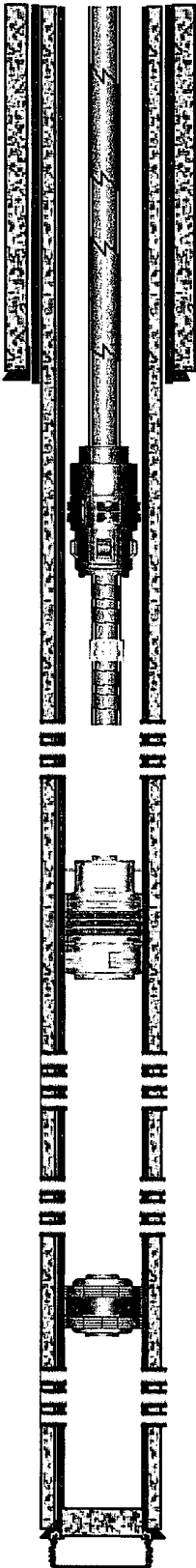
## Perforated Intervals

[illegible]



Mark Owen No. 9 Grayburg Completion  
(Blinebry, Abo & Granite Wash isolated)

Marathon Oil Company  
Mark Owen # 9  
4-Nov-04



Surface Casing  
9 5/8" set @ 1200' Cmtd w/ 700 sks

Tubing Anchor @ 3557'

Seating Nipple @ 3654'

Bottom of tubing @ 3685'

Penrose Skelly Grayburg Perf 3683' - 3800'

RBP @ 4520'

Blinebry Perfs 5740' - 5844'

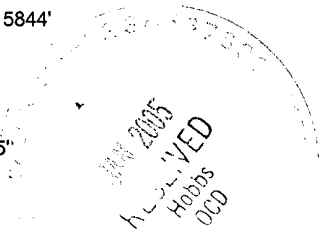
Abo Perfs 6568' - 7305'

CIBP @ 7330'

Granite Wash Perfs 7351' - 7405'

Production Casing  
7" 23 & 26# Set @ 7492' Cmtd w/ 2375 sks

TD @ 7500'



Well Name & Number:	Mark Owen No. 9		Lease	Mark Owen (Fee Lease)	
County or Parish:	Lea	State/Prov.	New Mexico	Country:	USA
Perforations: (MD)	3683' - 3800'		(TVD)	7500'	
Date Completed:	09/17/04			RKB:	
Prepared By:	Charles Kendrix		Last Revision Date:	11/04/04	