

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>30-015-33031</b>
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. <b>V-992</b>
7. Lease Name or Unit Agreement Name: <b>IB "32" State</b>
8. Well Number <b>6</b>
9. OGRID Number <b>14021</b>
10. Pool name or Wildcat <b>Indian Basin Upper Perm Associated</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>GL 4115'</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>L</b> : <b>1777'</b> feet from the <b>South</b> line and <b>685'</b> feet from the <b>West</b> line Section <b>33</b> Township <b>21-S</b> Range <b>24-E</b> NMPM County <b>Eddy</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 ☐ 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: **Drilled & Set Production Casing** ☐

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 setting of production casing on the IB "32" State No. 6. Please see attachment for details of production casing setting and test.**

RECEIVED

OCT 15 2004

OCD-ARTESIA

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 09/07/2004

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

E-mail address: **cekendrix@MarathonOil.com**

Telephone No. **713-296-2096**

For State Use Only

FOR RECORDS ONLY

OCT 25 2004

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

Conditions of Approval, if any:

## **IB "32" State No. 6**

### **Drill, Set, and Test Production Casing**

01/30/2004	Drilled w/ 8 ¾" bit 1785' to float shoe, Drilled out float shoe @ 1800'. Directional drilled and surveyed from 1800' to 2206'.
01/31/2004	Drilled directional hole building angle from 2206' to 2900'.
02/01/2004	Drilled directional hole from 2900' to 2900' to 3667'.
02/02/2004	Drilled directional hole from 3667' to 4289'. Trip for bit.
02/03/2004	Drilled directional hole from 4829' to 4890'.
02/04/2004	Drilled directional hole from 4890' to 5330'. Trip for bit.
02/05/2004	Drilled directional hole from 5330' to 6140'.
02/06/2004	Drilled directional hole from 6140' to 7015'.
02/07/2004	Drilled directional hole from 7015' to 7460'. Excessive torque. TOO H changed out bit and motor. TIH reamed 40', drilled directional hole 7460' to 7523'.
02/08/2004	Drilled directional hole from 7523' to 7967'. Lost returns, stuck DP Jarred on DP. Bit plugged, annulus full due to bridged off.
02/09/2004	Manually backed off DP. Removed DP screen. Screwed back into fish. RU Baker Atlas ran free point. Found no movement f/ top of 6 1/2" DC's 7316' to 6965'. Drilling jars @ 6903', 14 jts of 4 1/2" HWDP below jars. Could not go through small ID @ top of DC's w/ free pt tool. POOH w/ free pt tool. RIH w/ 1 5/8" Collar Locator & 5' sinker bar. Tagged @ top of DC's @ 7361'. Layed down top jt. DP. Added 10' DP sub. RU Haliburton coil tubing unit, and CT BOP and stripper. RI w/ 2.1" OD mill, Baker 1 3/4" motor on 1 1/2" coil tubing. RI tagged @ top of DC's @ 7361'. Washed to MWD tool @ 7891. Circulate 45 min.
02/10/2004	POOH w/ coil tubing & RD. RI w/ 2" gun. Perf DC @ 7355'. Pumped down DP. Broke Circ on annulus. Circ 1 1/2 hrs. Failed to jar fish free. Ran free point and made backoff at 7544'. Trip for jarring assembly.
02/11/2004	Screwed into fish w/ jarring assembly. Failed to jar fish free. Ran free point. Perforated DC @ 7813' & @ 7803'. Failed to jar fish free or circ w/ rig pumps.

02/12/2004 Made backoff at 7605'. Ran new fish assembly. Pumped high viscosity sweep. Circ hole clean.

02/13/2004 RU Haliburton pumped 4000 gals 15% Zonal coverage acid with 750 gals in annulus. Screwed into fish. Pumping and jarring on stuck pipe.

02/14/2004 Jarring on pipe and pumping acid.

02/15/2004 Failed to jar fish free. Failed to make backoff at 7730'. Ran freepoint. Made backoff at 7636'. Start to circ. and circulated gas through choke. Circulate and condition mud.

02/16/2004 POOH laid down fishing tools. Recovered 1 drill collar. Top of fish @ 7336'. Washed over fish from 7636' to 7705'.

02/17/2004 POOH w/ wash pipe. Picked up 6 additional jts wash pipe RIH. Tagged @ 7442'. Washed and reamed from 7636' to 7757'.

02/18/2004 Failed to jar fish free. Ran freepoint. Running string shot.

02/19/2004 Backed off DC's @ 7667'. POOH w/ 1 addition DC retrieved. Left in the hole 6 - 6 1/2" Drill collars, Cross over sub, MMDC, Teleco, Monel, Shock Sub, Motor, and bit. RIH open ended to 7459'. Spotted 275 sacks of cement (849'). Top of plug @ 6610'. POOH w/ DP and picked up new BHA.

02/20/2004 RIH w/ BHA. Inspected DC's and HWDP. RIH t/6519'. Washed f/ 6519 to 6977'. Drilled f/ 6977' to 6987.

02/21/2004 Drilled f/ 6987' to 7134'. POOH t/ dail up motor.

02/22/2004 Dialed up motor. RIH drilled f/ 7134' to 7149' 20% formation.

02/23/2004 Drill f/ 7149' to 7159'. Failed to sidetrack off cement plug @ 7159'. Trip for different BHA.

02/24/2004 RIH w/ sidetrack assembly. Time drill f/ 7159' to 7179' Formation percentage 40%. Last 13' insufficient samples caught.

02/25/2004 Drilled w/ sidetrack assembly f/ 7179' to 7190. Trip for directional BHA. Drilled f/ 7190' to 7232'. Survey @ 7172', 15.7, 241.1(Original hole - 7146', 17.8, 235.4)

02/26/2004 Drill directional f/ 7232' to 7795'. Pumped sweep. Circ hole clean.

02/27/2004 Drilled f/ 7795' to 7999'. Lost complete returns. Dry drilling from 7999' to 8611'.

02/28/2004 Drilled with no returns f/ 8611' to TD of 8826'. Made short trip. Attempted to log well. Tool failed to go below 7372'. Continuously, Pumping water down annulus at 4 bpm while tripping and logging. RIH to condition hole for running casing.

02/29/2004 Tagged @ 7430'. Rigged up kelly and washed and reamed from 7420' to 7528'. Laid down kelly and RIH to 8718'. Picked up kelly. Washed and reamed f/ 8718' to 8826'. Circulate and spotted pill on bottom. POOH w; drill pipe, and BHA laid down. Rig up Bull Rogers casing crew started running production casing string.

03/01/2004 Finished running 7" production string. Set bottom of casing at 8819'.  
Casing Details: Top to bottom

2 jts 7" 26 # K-55	Surface - 94'
98 jts 7" 23 # K-55	94' - 4675'
53 jts 7" 26 # K-55	4675' - 7155'
1 DV Tool	7155' - 7157'
1 Ext Casing Packer	7157' - 7175'
34 jts 7" 26 # K-55	7175' - 8769'
1 Float Collar	8769' - 8770'
1 jt. 7" 26 # K-55	8770' - 8817'
1 Float shoe	8817' - 8819'

Rigged up Haliburton cementers.

1<sup>st</sup> stage: Pumped 50,000 scf N2, 10 bbls fresh water, 24 bbls Superflush, 10 bbls fresh water, 100 sks Foamed Premium Acid soluble cement + 2% Zonesalant 2000 mixed at 15.2 ppg, 2.47 cuft/sk Yield, 170 sks Foamed Premium cement + 2% Zonesalant 2000 + 2% CaCl mixed at 15.2 ppg, 1.26 cuft/sk Yield, 120 sks Modified Super H + 0.4% CFR-3 + 5 #/ sk Gilsonite + 0.5% H-344 + 0.2% HR-7 + 1# / sk Salt mixed at 13.0 ppg, 1.67 cu ft/ sk Yield. Dropped plug, washed lines and displaced cement with 340 bbls fresh water. Bumped plug w/ 600 psi pump pressure. Gradually increased pressure to 3400 psi to set ECP. Dropped dart and waited 30 minutes. Opened DV tool. Attempted to circulate with rig pumps. Pumped approximately 700 with 200 psi. Never saw any pressure increase or returns. Decision made to abort 2<sup>nd</sup> Stage cement job. Dropped plug and displaced w/ 278 bbls fresh water. Closed DV Tool and pressured up to 2500 psi. Bled off pressure, and rigged down Haliburton. Picked up BOP's set slips on 7" casing. Cut off 7" and installed 11" X 7 1/16" 3M tubing head and DHT.

03/08/2004 Fill cellar with gravel. PU bit, scraper, and 2 7/8" tubing. RIH to DV Tool. Pressured up casing to 1000 psi. No bleed off. Drill out DV tool. Pressure up casing to 1000 psi. Pressure held.