

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>30-025-37653</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>17</b>
9. OGRID Number <b>14021</b>
10. Pool name or Wildcat <b>Undesignated Emice San Andres 24150</b>

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
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>N</b> : <b>510'</b> feet from the <b>South</b> line and <b>1650'</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>3370' GR</b>

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: **Initial Well Completion** ☒

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 has finished operations to complete the Mark Owen No. 17 in the San Andres formation. Please see attachment for details of completion work.**

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 ☐ for an (attached) alternative OCD-approved plan ☐

SIGNATURE Charles E. Kendrick TITLE Regulatory Compliance Rep DATE 05/04/2006  
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 MAY 18 2006  
Conditions of Approval, if any: \_\_\_\_\_

# **Mark Owen No. 17** **Initial Completion Work** **( San Andres)**

03/20/2006 RU perforating guns. RIH w/ 3 1/8" slick gun carrier w/ 311T 23 gram charges w/ 4 JSPF, 120° phasing w/ CCL. Get on depth perforate in 10% acedic acid. Perforated f/ 4002' to 4024' w/ 56 shots. RD Baker Atlas. RU kill truck. Pressure up on perforations to 2000 psi. Perfs broke down, pumped in @ 4.5 BPM @ 1900 psi. Pumped 35 bbls water. RD kill truck. RIH w/ 5 1/2" packer on 75 jts 2 7/8" tbg. SI well w/ packer swinging @ 2325'.

03/21/2006 Cont. in hole w/ pkr. Set pkr @ 3927'. Load and test casing annulus to 500 psi. RU Swab. RIH w/ swab. Initial fluid level @ 100' f/ surface. Made 7 swab runs. Recovered 28 bbls load water. Final fluid level @ 3700'. Well had 5% oil cut, slight gas blow. Wait one hr for fluid entry. RIH w/ swab tag fluid @ 3000' f/ surface. Made two swab runs swabbed well dry. SI

03/22/2006 RIH w/ swab. Fluid level @ 1000' f/ surface. RU acid pump truck. Acidize perfs w/ 30 bbls 15% HCL acid. Displace w/ 40 bbls water. RU swab. Swab 99 bbls load back. SI

03/23/2006 Tbg Press= 200 psi. Open well blow down pressure. RU swab. RIH w/ Swab initial fluid level @ 1200' f/ surface. Made 20 swab runs, recovered 57 bbls fluid w/ 5% oil cut. RD swab. SI

03/26/2006 Tbg Press= 600 psi. Blow down tubing. RU swab. IFL @ 1500' f/ surface. Made one swab run recovered 5 bbls. Release pkr & POOH. RIH w/ bull plugged perforated tbg sub, SN, Special Alloy joint, 4 jts 2 7/8" tbg, 5 1/2" tubing anchor, & 126 jts 2 7/8" tbg. Set TAC w/ 14 pts tension @ 3920', SN @ 4079', BOT @ 4084'. ND BOP, installed wellhead. SI

03/27/2006 RIH w/ 2" RWBC rod pump & rods. Hung well on and spaced out. Long stroke pump to check action. Good pump action. Left well pumping to test facilities. RUMO PU.

03/28/2006 Tested lower San Andres perforations with marginal amounts of oil and gas produced.

To 04/08/2006

04/09/2006 MIRU PU. POOH w/ rods & pump. SI

04/10/2006 NU BOP. POOH w/ tbg and BHA. RIH w/ CIBP on 128 jts 2 7/8" tbg. Set CIBP @ 3997'. PUH 4'. Bottom of tubing @ 3993'. RU acid truck. Circ hole w/ 65 bbls fresh water. Pressure test BOP & casing to 2500 psi. Pump 250 gals HCL Acid and displaced w/ 21 bbls water. POOH w/ tbg. Acid spotted f/ 3743' to 3993'. Closed blind rams. RU Baker Atlas perforating equipment. Perforate upper San Andres w/ 3 1/8" slick gun carrier w/ 311T 23 gram charges/ w/ 4JSPF, 120°phasing w/ collar locator. Perforated top down in acid w/ 2 guns runs w/ intervals as follows:

Interval	Feet	Shots
3950' – 3956'	6'	24
3960' – 3964'	4'	16
3968' – 3980'	12'	48
3986' – 3992'	<u>6'</u>	<u>24</u>
Totals	28'	112

RU pump truck. Load casing w/ 13 bbls water. Pump 2 bbls well on vacuum. Pumped total of 15 bbls water to flush acid off perforations. RIH w/ 2 7/8" bull plugged perf sub, SN, Alloy jt, 3 jts 2 7/8' tbg, TAC, 40 jts, SI.

04/11/2006 Finish in hole w/ tbg. Tbg Anchor @ 3865', SN @ 3992', Bottom of plugged perf sub @ 3996'. Set achor ND BOP. Install wellhead. RIH w/ 2" pump & rods. Hang off rods and space out. Check for pump action. Leave well producing to production facilities.