

Form 3160-5  
(April 2004)

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**

**JUL 28 2008  
OCD-ARTESIA**

FORM APPROVED  
OMB No. 1004-0137  
Expires: March 31, 2007

**SUNDRY NOTICES AND REPORTS ON WELLS**

*Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.*

**SUBMIT IN TRIPLICATE- Other instructions on reverse side.**

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. NMNM0556290
2. Name of Operator Marathon Oil Company ATTN: Charles E. Kendrix		6. If Indian, Allottee or Tribe Name
3a. Address PO Box 3487 Houston, Texas 77253-3487	3b. Phone No. (include area code) 713-296-2096	7. If Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Unit Letter "F", 1,980' FNL & 1,980' FWL, Section 15, T-20-S, R-29-E		8. Well Name and No. Williamson Fed #4
		9. API Well No. 30-015-21438
		10. Field and Pool, or Exploratory Area Burton Flat Strawn
		11. County or Parish, State Eddy, New Mexico

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input checked="" type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

SEE ATTACHED WELLBORE DIAGRAM

Pump 25 sx C cmt @ 5,608' CIBP previously set @ 5,608' on 12/17/2003 ✓

Pump 25 sx C cmt @ 3,165' WOC TAG

Cut and Pull 4 1/2" casing from ~2,700'

Pump 35 sx C cmt @ 2,750' -2,650' WOC & TAG (120' plug minimum)

\* Pump 35 sx C cmt @ 570'

Pump 14 sx C cmt @ 50' to surface 350' to Surface

Cut off wellhead & anchors, install dry hole marker, backfill cellar.

Cement : 25 sx min.

100' plus 10% per 1000'  
\* Add: Salt plug 1400' - 1250' WOC TAG.

**SEE ATTACHED FOR  
CONDITIONS OF APPROVAL**

**Accepted for record  
NMOCD**

**APPROVED**

JUL 24 2008

JAMES A. AMOS  
SUPERVISOR-EPS

14. I hereby certify that the foregoing is true and correct  
Name (Printed/Typed)

James F. Newman, P.E.

Title Engineer, Basic Energy Services

Signature Jim Newman D.R.

Date 07/23/2008

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

Well Name & No.		Williamson Federal #4		Field	South Parkway Strawn		Date	06/30/03
County	Eddy	API	30013214380	State	NEW MEXICO	By	R S, Bose	
Spudded	1/4/1975	Comp Drig	3/2/1975	Location	1880' FNL & WL, Section 15, Township 20S, Range 29E UL "F"			



17-1/2" Hole

12-1/4" Hole

7-7/8" Hole

2-3/8" 4.7# N-80 EUE w PLS pkr and on/off with X profile @ 5618'

13-3/8" 48# H-40 @ 520' w/500 Sx (Clrc'd)

8-5/8" 24 &amp; 32# K-55 @ 3115' w/1900 Sx Top-out w/ 685sx (surf)

5648-58' (4 SPF - Delaware)

CIBP with 35' cement at 6850'  
DV @ 7016' w/1000 sx (TOC @ 2700' calculated).

CIBP with 35' cement at 9400'

9432-44' (4 SPF - Wolfcamp)

CIBP with 35' cement at 10460'

10,476-85' 10,489-804' 10,814-20' (2 SPF - Strawn)

4-1/2" 11.8 &amp; 13.5# N-80 @ 11,016' w/800 Sx

GL: 3295' DF: 3311' KB: 3313'  
PSTD: 10425' TD: 11960'

- Jan '75 Drill and complete. Perforate Strawn 10,476'-10,620'. Acidize with 6,000 gals 15% NEA. FRR at 30 BOPD/100 MCFPD.
- Apr '86 Treat perms with 500 gals X-25 nitrosol, acidize with 3500 gals of 15% NEA and 100 balls. FRR at 8 BOPD.
- Feb '90 Acidz with 2000 gals 15% NEA using 50 balls. Frac Strawn with 341 MCF N2, 23,500# 20/40, 725 bbls fluid.
- Dec '93 Pull Gulberson Uni-V packer. Set SN at 10,508'. Put well on plunger lift. FRR 5BOPD/51 MCFPD. No fluid entry. Rot to prod flwg.
- Apr '03 Ran BHP on Strawn (+/- 1200 psi). Set CIBP at 10460' with 35' of cement. Test csg to 1000#. Perf Wolfcamp 9432-44 at 4SPF underbalanced. Acidize perms with 2500 gals of 15% HCL. Ran BHP - Wolfcamp depleting with +/- 1500 psi BHP.
- Jun '03 Set CIBP with cement at 9400' and 6850' with 35' cement on top of each. Perf Delaware 5648-58 at 4 SPF underbalanced. No fluid entry. Break down perms with water and swab test. No fluid entry. Spearhead 500 gals of 15% HCL. Frac well with 24000 gals and 50000 lbs 18/30 sand. Swab 100% water at 700 BWPD rate.

**BUREAU OF LAND MANAGEMENT**  
**Carlsbad Field Office**  
**620 East Greene Street**  
**Carlsbad, New Mexico 88220**  
**575-234-5972**

**Permanent Abandonment of Federal Wells**  
**Conditions of Approval**

Failure to comply with the following Conditions of Approval may result in a Notice of Incidents of Noncompliance (INC) in accordance with 43 CFR 3163.1.

1. Plugging operations shall commence within ninety (90) days from the approval date of this Notice of Intent to Abandon.

**If you are unable to plug the well by the 90<sup>th</sup> day provide this office, prior to the 90<sup>th</sup> day, with the reason for not meeting the deadline and a date when we can expect the well to be plugged. Failure to do so will result in enforcement action.**

2. **Notification:** Contact the appropriate BLM office at least 24 hours prior to the commencing of any plugging operations. For wells in Chaves and Roosevelt County, call 575-627-0272; Eddy County, call 575-361-2822; Lea County, call 575-393-3612.

3. **Blowout Preventers:** A blowout preventer (BOP), as appropriate, shall be installed before commencing any plugging operation. The minimum BOP requirement is a 2M system for a well not deeper than 9,090 feet; a 3M system for a well not deeper than 13,636 feet; and a 5M system for a well not deeper than 22,727 feet.

4. **Mud Requirement:** Mud shall be placed between all plugs. Minimum consistency of plugging mud shall be obtained by mixing at the rate of 25 sacks (50 pounds each) of gel per 100 barrels of water. Minimum nine (9) pounds per gallon.

5. **Cement Requirement:** Sufficient cement shall be used to bring any required plug to the specified depth and length. Any given cement volumes on the proposed plugging procedure are merely estimates and are not final. Unless specific approval is received, no plug except the surface plug shall be less than 25 sacks of cement. In lieu of a cement plug in a cased hole, a bridge plug set within 50 feet to 100 feet above the perforations shall be capped with 25 sacks of cement. If a bailer is used to cap this plug, 35 feet of cement shall be sufficient.

Unless otherwise specified in the approved procedure, the cement plug shall consist of either Neat Class "C", for up to 7,500 feet of depth or Neat Class "H", for deeper than 7,500 feet plugs.

6. **Dry Hole Marker:** All casing shall be cut-off at the base of the cellar or 3 feet below final restored ground level (whichever is deeper). The well bore shall then be capped with a 4-inch pipe, 10-feet in length, 4 feet above ground and embedded in cement. The following information shall be permanently inscribed on the dry hole marker: well name and number, name of the operator, lease serial number, surveyed location (quarter-quarter section, section, township and range or other authorized survey designation acceptable to the authorized officer such as metes and bounds).

7. **Subsequent Plugging Reporting:** Within 30 days after plugging work is completed, file one original and five copies of the Subsequent Report of Abandonment, Form 3160-5 to BLM. The report should give in detail the manner in which the plugging work was carried out, the extent (by depths) of cement plugs placed, and the size and location (by depths) of casing left in the well. **Show date well was plugged.**

8. **Trash:** All trash, junk and other waste material shall be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill. Burial on site is not permitted.

Following the submission and approval of the Subsequent Report of Abandonment, surface restoration conditions of approval will be developed and furnished to you.