

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
Oil Cons.  
N.M. DIV-Dist. 2  
1301 W. Grand Avenue  
Artesia, NM 88210

FORM APPROVED  
OMB NO. 1004-0135  
Expires: November 30, 2000

**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  
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator  
**Marathon Oil Company**

3a. Address  
**P.O. Box 552 Midland, TX 79702**

3b. Phone No. (include area code)  
**(915) 682-1626**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**Section 15, T-20-S, R-29-E  
600' FNL & 1980' FEL  
b60**

5. Lease Serial No.

**NM-0556290**

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No

8. Well Name and No.

**Williamson Federal 5**

9. API Well No.

**30-015-24957**

10. Field and Pool, or Exploratory Area  
**Getty**

11. County or Parish, State

**Eddy N.M.**

**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 recompleate 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 recompleation 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 final site is ready for final inspection.)

See attached plug and abandonment procedure and well bore schematic.

AMENDED - SEE ATTACHMENT

APPROVAL SUBJECT TO  
GENERAL REQUIREMENTS AND  
SPECIAL STIPULATIONS ATTACHED

RECEIVED  
2003 AUG 29 PM 1 21  
BUREAU OF LAND MGMT.  
CARLSBAD FIELD OFFICE

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

**Walter Duease**

Title

**Regulatory Affairs**

Date

**August 28, 2003**

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

Approved by

**(ORIG. SGD.) ALEXIS C. SMOBODA**

Title

**PETROLEUM ENGINEER**

Date

**OCT 14 2003**

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.

Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, makes 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.

**Williamson Federal #5  
600' FNL & 1980' FEL  
Section 15, T-20-S, R-29-E  
Eddy County, New Mexico  
API: 30-015-24957  
NM - 0556290**

Marathon Oil Company proposes the following final abandonment procedure for the Williamson Federal #5.

1. Run CBL to determine TOC in 4-1/2" – 8-5/8" annulus. If no cement is found, set a cement retainer approximately 10' above the top of the fish at 1849'
2. Sting into the retainer and attempt to establish an injection rate. Monitor 4-1/2" – 8-5/8" annular pressure. If unable to establish injection, sting out of retainer.
3. Perforate 4-1/2" casing with 4 JSPF above cement retainer at +/- 1845'.
4. Circulate cement up the 4-1/2" – 8-5/8" annulus to surface.
5. Set 150' plug on top of retainer.
6. Set surface plug.
7. Rig down pulling unit and install dryhole marker.
8. Begin location restoration.

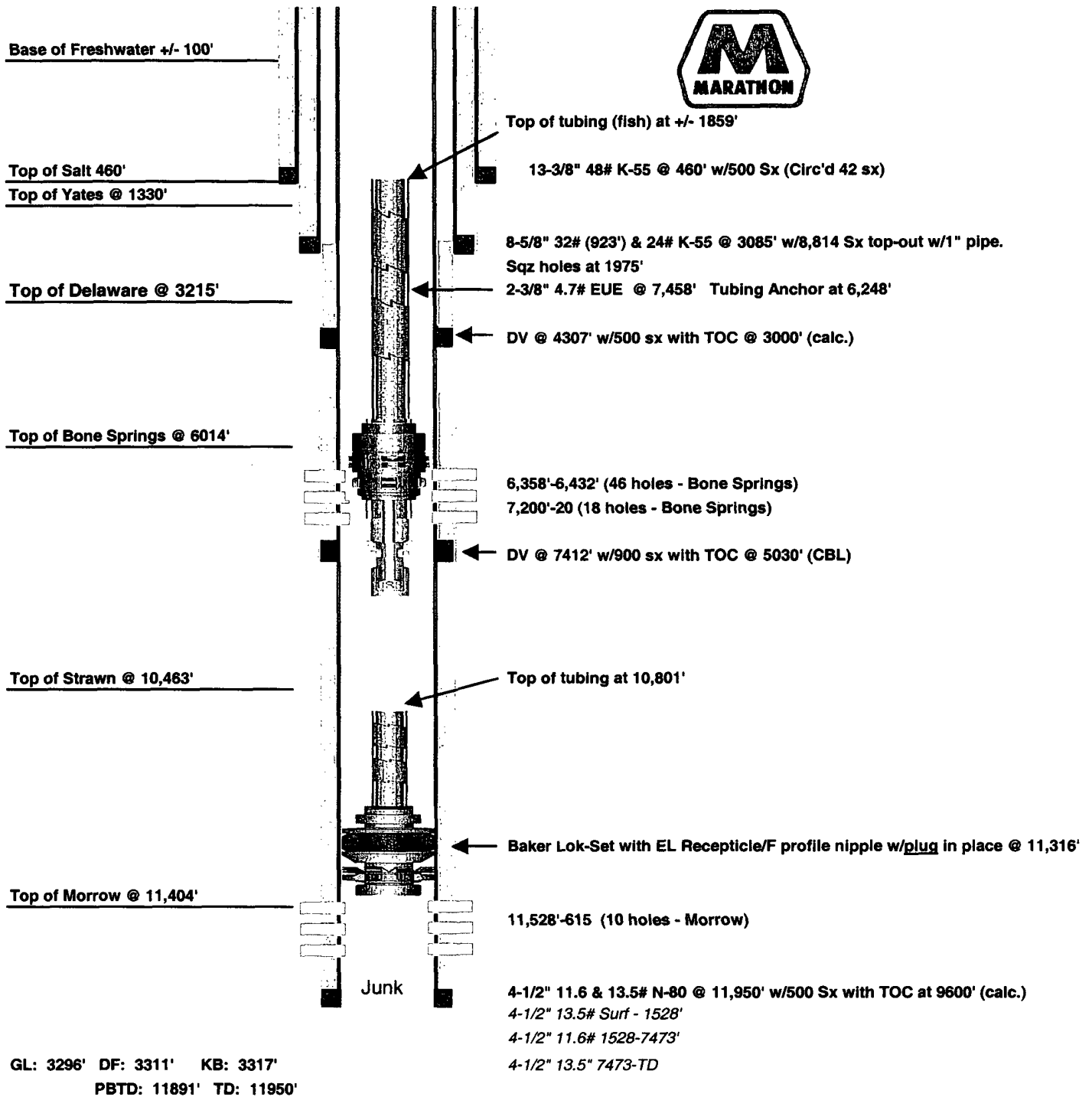
In an effort to recomplete this well to the Strawn formation, Marathon has encountered a highly corroded production string of 2-3/8" tubing which has precluded an effective means of re-entering the well to our desired zone of interest. To date, Marathon has conducted fishing operations for 44 days and has only recovered tubing to a depth of 1,859'. The average recovery of tubing has decreased to less than 30' per day and there are no indications of an improvement in tubing strength or condition.

Rather than continue cost prohibitive and risky well bore operations, Marathon is seeking a non-conventional means to permanently abandon the well bore. It is our belief that the Morrow formation is adequately isolated with a permanent packer and plug set at 11,316'. This tight formation was originally acid fractured and produced for one year yielding 7.8 MBO and 171 MMCF and is subnormally pressured and presents no risk to other formations open in the wellbore or surface resources.

The Bone Springs formation is also deemed as tight and was similarly acid fractured to produce and yielded 2.2MBO and 568 MMCF during its production life and is also subnormally pressured.

We believe that the proposed plugging program will adequately isolate the open portion of the Bone Spring formation and provide necessary surface groundwater resource protection. It is our belief that the deep setting depth (3085') of the 8-5/8" casing and primary intermediate cement job will prevent any well bore fluids from vertically migrating to the brackish waters of the Capitan Reef. The proposal to perforate the production casing and circulate cement to surface will further ensure protection of any shallow surface groundwater.

Well Name & No.		Williamson Federal #5		Field	Getty Bone Spring		Date	05/15/03
County	Eddy	API	3001524957	State	NEW MEXICO	By	R. S. Bose	
Spudded	8/18/1984	Comp Drig	11/3/1984	Location	660' FNL & 1980 EL, Section 15, Township 20S, Range 29E UL "B"			



- Jan '85 D&C. Perforate Morrow in acid 11,528', 29, 39, 41, 74, 75, 91, 92, 11614, 15 (10 holes). Acidize with 1,000 Gals 7-1/2%. Frac w/ 20,000 gals/14,500#/25% CO<sub>2</sub>. Left one bit cone in bottom of well.
- May '85 Isolate Morrow, perf Bone Springs 7200, 01, 03-20 (1 SPF - Total 18 holes). Acidize with 2,500 gals and BS.
- May '90 Install sliding sleeve in tubing string @ 7469'. Lost 1.87\" F plug and prong, rope socket, 50' wireline, 9' 1-1/2\" weight bars, spang jars, knuckle joint, fishing tool, rope socket, 10' weight bars, spang jars, knuckle joint, fishing tool in bottom of well.
- Oct '93 Well fails packer leakage test. Isolate Morrow by installing a planking plug in profile at 11,316'.
- Mar '94 Chemical cut tubing at 10,801'. Perforate Bone Spring 6358-63, 66-68, 71-79, 81-86, 89-92, 6407-16, 20-24, 30-32 (1 SPF - Total of 46 holes). Acidize 6358-6432 w/ 4000 gals of 7-1/2% adn 84 BS. Run CBL. Frac same interval w/ 65,000 gals and 188,000#.

Marathon Oil Company  
Williamson Federal #5  
660' FNL, 1980' FEL  
Section 15, T. 20 S., R. 29 E.,  
Eddy County, New Mexico

The proposed procedure to plug and abandon the Williamson Federal #5 is approved with the following changes.

Steps 1 and 2 are amended as follows:

1. After running CBL and determining TOC in 4-1/2" – 8-5/8" annulus and prior to setting a cement retainer, attempt to run in with coiled tubing or 1" tubing as deep as possible.

2. Cement to top of fish.

Continue with proposed Steps 3 and 4.

Steps 5 and 6 are amended so that cement will fill the 4-1/2" casing from the retainer to the surface.

Continue with proposed Steps 7 and 8.

10/14/03  
acs