

Oil Cons.
N.M. DIV-Dist. 2
1301 W. Grand Avenue
Artesia, NM 88210

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires January 31, 2004

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)
c/o 432-687-1994

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
**1815 FWL & 900 FSL, Unit Letter N
Section 11, T-20-S, R-29-E**

5. Lease Serial No.

NM - 0506771

6. If Indian, Allottee or Tribe Name

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

NM - 82101

8. Well Name and No.

Burton Flat Federal #1

9. API Well No.

30-015-26289

10. Field and Pool, or Exploratory Area

Burton Flat East Strawn

11. County or Parish, State

Eddy

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 procedure & wellbore diagrams.

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

James F. Newman, P.E.

Triple N Services, Inc. 432-687-1994
Title **Engineer**

Signature

Date **8/5/03**

THIS SPACE FOR FEDERAL AND STATE OFFICE USE

Approved by

(ORIG. SGD.) ALEXIS C. SWOPE

PETROLEUM ENGINEER

Date **AUG 07 2003**

Conditions of approval, if any, are attached. Approval of the notice does not warrant or certify that the applicant holds legal or equitable title to the lands or interests in the subject lease which would entitle the applicant to conduct operations thereon.

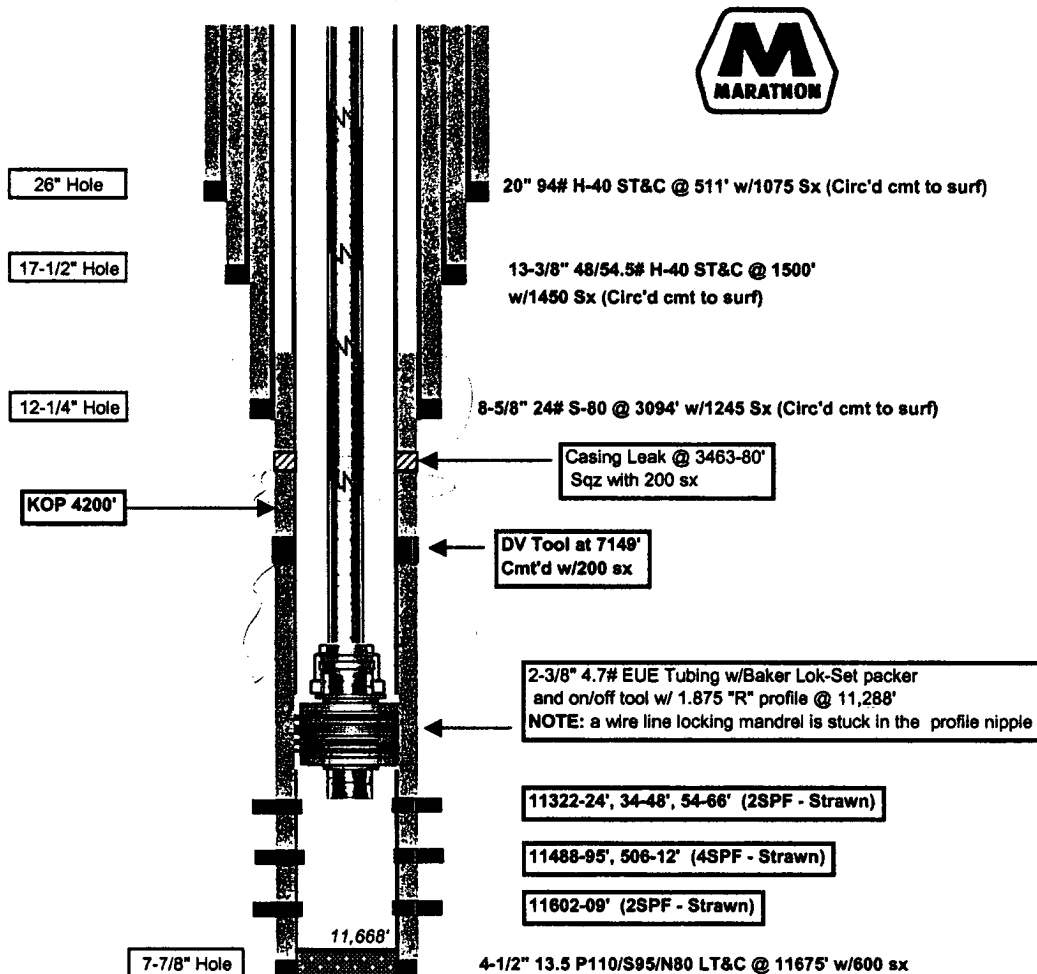
Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 322 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 reverse)

Well Name & No.		Burton Flat Federal #1		Field	BURTON FLAT EAST STRAWN		Date 11/25/02	
County	EDDY	API	3001526289	State	NEW MEXICO	By	RS Bose	
Spudded	2/16/1990	Comp Drig	7/5/1990	Location	1815' FWL & 900' FSL, Section 11, Township 20S, Range 29E, UL "N"			

Directional Wellbore - BHL 3116' S, 117' W of surface location



GL: 3301' DF: 3322' KB: 3323'
PBTD: 11668' TVD: 10874' MD: 11675

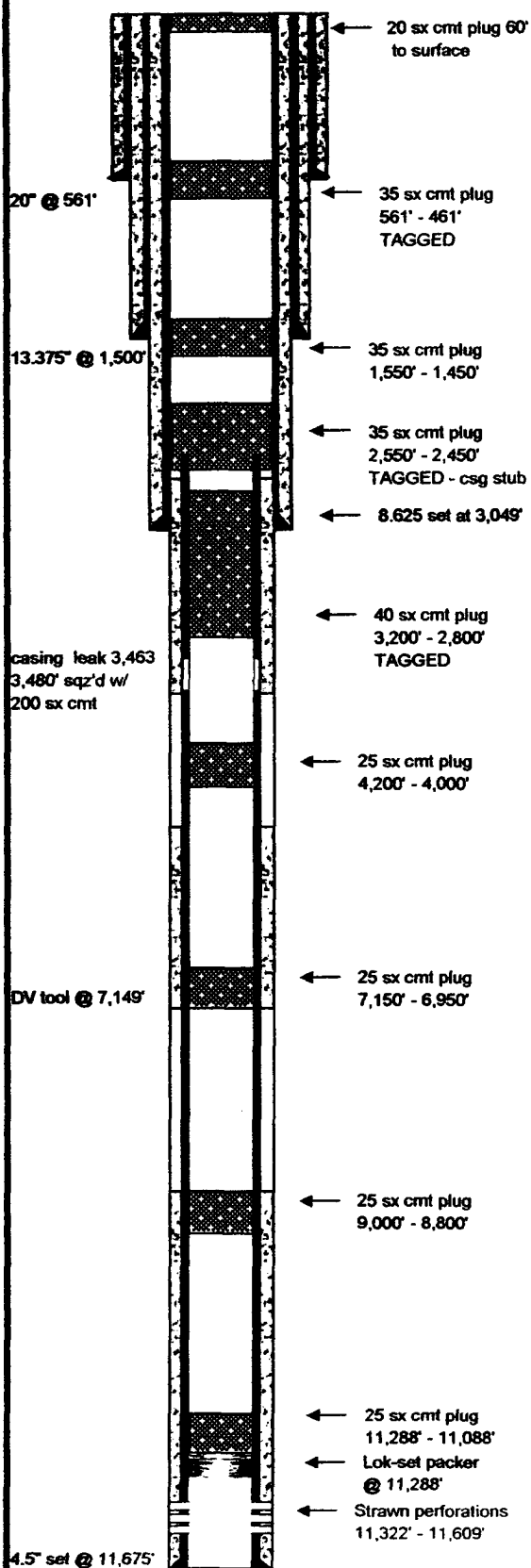
Apr '90 Perf'd Strawn 11,602-09' (2SPF) w/ 1-11/6" thru-tubing gun. Acidize perfs with 1,500 gals 15% with 25 ball sealers. Isolate perfs 11602-09 with RBP set at 11,557'. Spot perf acid. Perf Strawn 11,488-95' (4SPF) w/ 3-1/8" csg gun. Acidize 11,488-95' with 2500 gals of 15% using 40 ball sealers. Perf Strawn 11,506-12' (4SPF) w 3-1/8" csg gun. Acidize 11,488-512' w/ 13,000 gals of gelled 15% using 32 ball sealers. Reset RBP at 11,428'. Perf Strawn 11,322-24', 34-48', 54-66' (2SPF) w/ 3-3/8" csg gun. Acidize with 2500 gals of 15% using 75 ball sealers. Reacidize with 15,000 gals of 15% using ball sealers. Retrieve BP. Set tubing and pkr at 11,272'.

Oct '98 Remove packer, install plunger lift w/SN @ 11305'. FL 500' from surface. Swab 462 bbls water. Unable to kick well off.

Jan '99 Found hole in casing at 3463-80' and tight spot in casing at 8409'. Sqz csg lk with 200 sx. Tst sqz lk to 1000 psi. Set packer at 11,288'. Swab 600 bbls of water.

Feb '99 Acid stimulate perfs with 119 bbl blend of methanol and 15% HCL. Foam with 27 tons of CO2 and overdisplace with 4 tons. Swab back 391 bbls water.

Jun '99 Swab 266 BW. Indication of tubing or packer leak.



Field Name:	Burton Flat East Strawn		
County:	Eddy	Well Type:	Oil
State:	New Mexico	Depth:	11,668
RRC District:	N/A	Drilling Commenced:	2/16/1990
Section:	11	Drilling Completed:	7/5/1990
Township:	20S	Date Well Plugged:	
Range:	29E	Longitude:	
1815 FWL & 900 FSL		Latitude:	
Unit Letter N		Freshwater Depths:	
API #:	30-015-2689		
Lease or ID:			

Casing					
Description	Size (inches)	Depth (feet)	TOC (feet)	Cement (sacks)	Hole Size (inches)
Surface:	20	511	Surface	1075	26
Intermediate:	13.375	1,500	Surface	1450	17.5
Intermediate:	8.625	3,049	Surface	1245	12.25
Production:	4.5	11,675	9,047	600	7.875

Proposed Plugs					
Description	Top (feet)	Depth (feet)	Volume (sacks)	Volume (cu ft)	
1 Cement-Class C	11,088	112,880	25	33	
2 Cement-Class C	9,000	8,800	25	33	
3 Cement-Class C	4,200	4,300	25	33	
4 Cement-Class C	3,000 (tag'd)	3,200	40	53	
5 Cement- 50' inside csg stub	2450 (tag'd)	2,550	35	46	
6 Cement-Class C	1,450	1,550	35	46	
7 Cement-Class C	461 (tag'd)	561	35	46	
Cement-Class C	surface	60	20	26	

Perforations			
Formation	Top (feet)	Depth (feet)	
Strawn	11,322	11,324	
Strawn	11,488	11,495	
Strawn	11,602	11,609	

Formations		
Name	Top of Formation	

Comments

Prepared By: Jason Purdy
Date: 7/29/2003

**Proposed Plugging Procedure
Marathon Oil Company
Burton Flat Federal #1**

Surface casing: 20" 94# H-40 ST&C @ 511' w/ 1,075 sx, circulated
Intermediate csg: 13-3/8" 48/54.5# H-40 @ 1,500' w/ 1,450 sx, circulated
Intermediate csg: 8-5/8" 24# S-80 @ 3,094', cmt'd w/ 1,245 sx, circulated
Production csg: 4 1/2" 13.5# P-110/S95/N80 LT&C @ 11,675' cmt'd w/ 600 sx, TOC 9,000' calculated. DV tool @ 7,149' w/ 200 sx. Csg leak 3,463 – 80' sqz'd w/ 200 sx, estimated TOC 2,600'.
Open perfs: 11,322 – 11,609' (Strawn)
Tubing/packer: 2-3/8" 4.7# EUE with Lok-set packer 11,288'. Wireline locking mandrel stuck in profile nipple.

1. Dig, line, and fence 250 bbl earthen work pit and flow well down as needed.
2. MIRU plugging equipment. NU BOP. RU cementer and pressure test tubing to 500 psi. Release on/off tool and circulate hole w/ +/- 150 bbls plugging mud, pump 25 sx C cmt on top of Lok-Set packer.
3. POOH w/ tbg to ^{9,400' (7/WOLF CAMP)}~~9,000'~~. Load hole w/ plugging mud and pump 25 sx cmt 9,000 – 8,800'.
4. POOH w/ tbg to 7,150'. Load hole w/ plugging mud and pump 25 sx cmt 7,150 – 6,950'.
5. POOH w/ tbg to 4,200' ^{PERF & SQUEEZE} Load hole w/ plugging mud and pump ⁴⁰~~25~~ sx cmt 4,200 – 4,000'.
6. POOH w/ tbg to 3,200'. Load hole w/ plugging mud and pump 40 sx C cmt w/ 2% CaCl₂ @ 3,200'. WOC and tag this plug @ +/- 2,900'.
7. POOH w/ tbg standing back 2,500' and laying down remainder.
8. ND BOP and wellhead, stretch 4 1/2" casing to determine freepoint. RIH w/ wireline and cut casing @ freepoint. POOH w/ wireline, POOH w/ 4 1/2" casing. If casing is not free, RIH w/ AD-1 packer to 200' above casing cut and squeeze casing cut w/ 35 sx C cmt w/ 2% CaCl₂. If unable to establish rate at 1,000 psi or less, pump 35 sx C cmt w/ 2% CaCl₂ balanced plug across casing cut. WOC and tag this plug.
9. If casing not recovered in #8, cut casing based on stretch measurements and POOH w/ 4 1/2" casing. RIH w/ tubing to 50' inside csg stub & pump 35 sx C cmt w/ 2% CaCl₂. WOC and tag this plug at least 50' above casing stub.
10. POOH w/ tbg to 1,550'. Load hole w/ mud and pump 35 sx C cmt 1,550 – 1,450'.
11. POOH w/ tbg to 561'. Load hole w/ mud and pump 35 sx C cmt w/ 2% CaCl₂ @ 561'. WOC and tag this plug no deeper than 461'.
12. ND BOP and wellhead. RIH w/ tubing to 60' and pump 20 sx C cmt 60' to surface. RDMO.
13. Close working pit. Cut off wellhead and install dryhole marker. Cut off anchors and level location.