

UNIT STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

Oil Co. 3.  
N.M. DIV-Dist. 2  
1301 W. Grand Avenue  
Artesia, NM 88210

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

CLSF

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

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)  
915/687-8357

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
SHL @ Sec.20 T-21-S, R-24-E 475' FNL & 2522' FEL  
BHL @ Sec. 17, T-21-S, R-24-E

6. If Indian, Allottee or Tribe Name

N/A

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

8. Well Name and No.  
Indian Hills Unit # 42

9. API Well No.

10. Field and Pool, or Exploratory Area  
Indian Basin U. P. Assoc.  
Indian Basin Strawn

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

☒ Notice of Intent  
☐ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <u>Sidetrack</u>
<input type="checkbox"/> Change Plans	<input 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 final site is ready for final inspection.)

Please see attached document for details of intent.

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

Jerry Fletcher

Title

Engineer Tech.

Date 4/30/02

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by (ORIG. SGD.) ALEXIS C. SWCBODA

PETROLEUM ENGINEER

Date MAY 02 2002

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, 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.

RECEIVED  
2002 MAY -1 AM 8:44  
BUREAU OF LAND MGMT.  
ROSWELL OFFICE

Marathon Oil Company  
**Indian Hills Unit # 42**  
SHL @ Section 20, T-21-S R-24-E  
BHL @ Section 17, T-21-S, R-24-E  
Eddy County, New Mexico

Procedure to isolate lost Radioactive Source tool on the Indian Hills Unit # 42 is attached. At step "3" of the procedure we were unable to get the pipe below 8879' and into the wash pipe, so the 60 sack red dye plug was set at 8879'. After setting the plug we were unable to pull out of the plug. A free point was run and found pipe free at 8610' and stuck at 8630'. Ran string shot and backed off drill pipe @ 8600' W.L. depth. A 120' red dye cement plug and 250' HWDP and AOH tubing was left in hole above stuck wash pipe. Events below show procedures followed to date 4/29/02.

Trip in hole open ended to set cement plug in loss of circulation zone @ 8250'. Cement w/ 100 sks. Class "H" 14.2#, displace w/ 109 bbls. fresh water. WOC 6hrs.

Fill hole w/ water and checked for losses. 180 bbls./hr. Trip in hole to 8146' no cement.

Cement w/ 100 sks. class "H" w/ additives 14.2# displace w/ 109 bbls. water.

Fill hole w/ water still losing 10 bbls./hr. Trip in hole to 8146' no cement.

Circulate out contaminated cement for 30". Cement w/ 100 sks. w/ additives 14.2#, displace w/ 104 bbls. water. Check losses @ 7 bbls./hr. Spot 90 bbl. LCM pill from 7765-6700. Losses dropped to less than 2 bbl/hr.

Cement w/ 150 sks. Premium w/ additives 17.4# and displace w/ 81 bbls. water. Pull up to 6251' and cement w/ 150 sks. Premium w/ additives and displace w/ 78 bbls. water. WOC 6 hrs. TIH and tag cement @ 5945'.

Pick up drill collars and dress off plug @ 5945' Dress plug to approx. 6200'. **6200' will be kick off point for sidetrack to Upper Penn.**

**A subsequent report will be filed on the above events as well as any actions after kick off point.**



**Indian Hills Unit 42  
Indian Basin Field  
SHL @ 475' FNL & 2522' FEL, Section 20, T-21-S, R-24-E  
Eddy County, NM**

**April 26, 2002**

**Procedure to Isolate Lost Radioactive Source**

**Surface Casing:**

9 5/8", 36#, K55, STC casing set at 1818' Cemented with 700 sx foamed cement, 150 sx Class C, 3% Cacl<sub>2</sub>. Cement did not circulate. 275 sx foamed cement and 75 sx Class "C" were pumped down backside. Topped out with 250 sx Class C in 5 stages.

**Production Hole**

8 3/4" Hole drilled from 1818' to 8985'. Well was kicked off at 2000' and directionally drilled to a BHL 575' North & 2057' East of surface.

**Toolstring in hole**

Name	Length	Bottom	Top
Density	1.0'	8917'	8916'
Connectors	2.0'	8919'	8917'
HRLA	24.2'	8943'	8943'
Connectors	8.0'	8951'	8943'
NGT	9.2'	8961'	8961'
FMI	24.4'	8985'	8985'
Wash pipe	67.8'	8947'	8879'

**Radioactive source left in Hole**

- Cesium 137
- 1.7 curries

**Radioactive Source Isolation Plan**

1. RIH with bit. Confirm top of wash pipe is at +/- 8879' MD. POOH.
2. Notify OCD in Artesia, NM and BLM in Carlsbad, NM to allow onsite witness.
3. RIH open ended with 2 7/8" AOH stinger. Spot 60 sx plug from 8918' to 8818'. Plug to be Class "H", 0.75% CFR-3, 0.4% Red Dye, mixed at 17ppg, 0.99 cf/sx. POOH.
4. RIH w/ bit. Dress off cement plug to 8860'. WOC minimum of 6 hours before drilling out.
5. Condition hole for casing. Run and cement 7" production casing to 8860' according to original drilling program.
6. RDMO drilling rig.

See Sundry  
Report



7. MIRU pulling unit. Pick up bit, six 4" DC's, 2 7/8" L80 tubing. RIH to float collar. Drill out float collar and all but 3' of shoe joint. **DO NOT DRILL OUT FLOAT SHOE.**
8. POOH with bit, place junk on bottom of hole. Junk can be used bit, 2 pieces of polish rod 2'-3' long, several bit cones or similar non-drillable items.
9. Dump bail 10' of RED DYE cement on bottom of hole.
10. WOC 4 hrs. Tag top of cement.
11. Proceed with well completion
12. Well to be marked with sign (made of permanent material such as monel, SS) with following information. Sign will be provided by Schlumberger.
  - a. The word "CAUTION"
  - b. Trefoil radiation symbol not less than 4" diameter
  - c. Name of operator of well
  - d. Name and number of well
  - e. Legal location of well
  - f. Depth to top of radiation source
  - g. Brief description of recovery effort
  - h. Depth to top of plugs
  - i. Date of isolation with cement plugs
  - j. API number
  - k. Name of radionuclide and activity
  - l. Warning which says: "Do not drill below plug back depth before contacting the New Mexico Environment Department's Radiation Licensing and Registration Section."

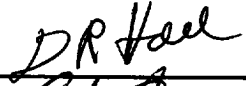
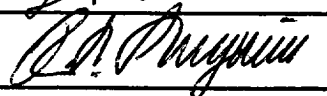
#### Notes

Verbal OCD approval for source isolation plan received from Van Barton & Mike Stubblefield (Artesia Field Office) by Jerry Fletcher on 4/26/02

Verbal BLM approval for source isolation plan received from Joe Laura (Carlsbad Field Office) by Jerry Fletcher on 4/26/02

Verbal approval for source isolation received from Schlumberger Radiation Safety Officer (Ray Dickes) for abandonment by Don Hall 4/26/02

Verbal approval from source isolation received from NM Environmental Department - Radiation Licensing & Registration Section by Ray Dickes 4/26/02

Prepared:	D.R. Hall	4/26/02	Signed	
Approved:	R.J. Longmire	4/26/02	Signed	

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