

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM 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.**5. Lease Serial No.  
NMLC064243A

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.  
NMNM70964A8. Well Name and No.  
INDIAN HILLS UNIT 429. API Well No.  
30-015-32355-00-S110. Field and Pool, or Exploratory  
INDIAN BASIN11. County or Parish, and State  
EDDY COUNTY, NM

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other2. Name of Operator  
MARATHON OIL COMPANY /Contact: GINNY LARKE  
E-Mail: vllarke@marathonoil.com3a. Address  
P O BOX 552  
MIDLAND, TX 797023b. Phone No. (include area code)  
Ph: 800.351.1417 Ext: 8321  
Fx: 915.687.8305

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 20 T21S R24E NWNE 475FNL 2522FEL

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input 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 checked="" 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 checked="" type="checkbox"/> Other Workover Operations
	<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 site is ready for final inspection.)

See attachment for detailed explanation of work

14. I hereby certify that the foregoing is true and correct.

**Electronic Submission #14793 verified by the BLM Well Information System  
For MARATHON OIL COMPANY, sent to the Carlsbad  
Committed to AFMSS for processing by Armando Lopez on 10/04/2002 (03AL0003SE)**

Name (Printed/Typed) GINNY LARKE

Title AUTHORIZED REPRESENTATIVE

Signature (Electronic Submission)

Date 10/04/2002

## THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

ACCEPTED

ALEXIS C SWOBODA  
Title PETROLEUM ENGINEER

Date 10/07/2002

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 Carlsbad

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.

\*\* REVISED \*\* REVISED \*\* REVISED \*\* REVISED \*\* REVISED \*\* REVISED \*\* REVISED \*\* REVISED \*\*

**INDIAN HILLS UNIT WELL NO. 42**  
**API #30-015-32355**

**ATTACHMENT TO FORM 3160-5**  
**DATED 10/3/02**

**Details of Workover Operations:**

9/25/02 Work began to add pay and acidize this well.

MIRU PU, ND wellhead and NU BOPs. POOH w/tbg, sub pump and RBP. Set plug @ 3100', loaded and tested to 500 psi, before continuing out of hole. NU spool and frac valve, RU wireline, & RIH w/4" proted guns w/23 gram 317T charges. Perfed 7" casing @ 8234'-8252', 8280'-8300', 8308'-8318', 8330'-8358' w/4 spf (304 holes) in 5 runs. RD wireline and RIH w/PPI tools. Dropped valves and acidized Upper Penn interval 8234'-8358' w/8,000 gals SBM 17% CCA sour acid using 4' spacing. Max breakdown = 1892 psi, avg breakdown = 1389 psi, AIR 1.67 BPM @ 1029 psi. Acidized old perms (8376'-8613') w/10,350 gals 12% HCl acid & xylene pad acid using 4' spacing. Max breakdown = 2484 psi, avg breakdown = 1851 psi, AIR 1.67 BPM @ 1420 psi. Fished valves & POOH w/collar locator, PPI packer & seating nipple on 3-1/2" tbg. RIH w/7" Halliburton BV RBP & set @ 3100'. Load & test to 500 psi. POOH, PU sub pump & auger system and RIH on 3-1/2" tbg. Made final splice, landed hanger in wellhead, ND BOPs & NU wellhead. RD pulling unit and turned well over to production. 9/30/02

