

NMOCD

Form 3160-4
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: November 30, 2000

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other		5. Lease Serial No. NMLC064391B	
b. Type of Completion <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr. Other _____		6. If Indian, Allottee or Tribe Name	
2. Name of Operator MARATHON OIL COMPANY		7. Unit or CA Agreement Name and No. NMNM70964A	
Contact: CHARLES KENDRIX E-Mail: cekendrix@marathonoil.com		8. Lease Name and Well No. INDIAN HILLS UNIT 46	
3. Address P O BOX 3487 HOUSTON, TX 77253-3487		9. API Well No. 30-015-33008-00-S1	
3a. Phone No. (include area code) Ph: 713.296.2096		10. Field and Pool, or Exploratory INDIAN BASIN UPPER PENN ASSOC	
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface NWNW Lot D 710FNL 794FWL At top prod interval reported below NWNW Lot D 710FNL 794FWL At total depth NWNW Lot D 710FNL 794FWL		11. Sec., T., R., M., or Block and Survey or Area Sec 29 T21S R24E Mer NMP	
14. Date Spudded 10/13/2003		15. Date T.D. Reached 10/26/2003	
16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 11/13/2003		17. Elevations (DF, KB, RT, GL)* 3709 GL	
18. Total Depth: MD 8117 TVD 8117		19. Plug Back T.D.: MD 8076 TVD 8076	
20. Depth Bridge Plug Set: MD TVD		21. Type Electric & Other Mechanical Logs Run (Submit copy of each) SPRETRALDENSIT NEUTRON SPECTRALGAMMARA	
22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Directional Survey? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis)			

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12.250	9.625 K55	36.0	0	1222		795		0	0
8.750	7.000 K55	26.0	0	8117	6236				

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.875	7804							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) UPPER PENN	7310	7729	7326 TO 7719		868	
B)						
C)						
D)						

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27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
7326 TO 7719	ACIDIZE PERFS W/ PPI PKRS IN 2' SETTINGS (124) W/ 100 GALS PER FT 17% CCA ACID, TOTAL 24,000 GALS.

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28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
11/13/2003	11/17/2003	24	→	267.0	947.0	1220.0			ELECTRIC PUMP SUB-SURFACE
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
	220	180.0	→	267	947	1220		PGW	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

ACCEPTED FOR RECORD

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ALEXIS C. SWOBODA
PETROLEUM ENGINEER

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #27575 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

29. Disposition of Gas(Sold, used for fuel, vented, etc.)
SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
UPPER PENN	7310	7729		SAN ANDRES GLORIETA YESO BONE SPRING WOLFCAMP CISCO	627 2254 2411 4501 6459 7310

32. Additional remarks (include plugging procedure):

Production casing in this well is two weights as follows top to bottom.

2 jts 7" K55 26#
96 jts 7" K55 23#
37 jts 7" K55 26#
DVD Tool
ECP
Pup jt 7" K55 26#
39 jts 7" K55 26#

33. Circle enclosed attachments:

- | | | | |
|---|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.) | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis | 7 Other: | |

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #27575 Verified by the BLM Well Information System.
For MARATHON OIL COMPANY, sent to the Carlsbad
Committed to AFMSS for processing by LINDA ASKWIG on 02/09/2004 (04LA0149SE)

Name (please print) CHARLES KENDRIXTitle AUTHORIZED REPRESENTATIVESignature (Electronic Submission)Date 02/09/2004

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.

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Additional data for transaction #27575 that would not fit on the form

32. Additional remarks, continued

float collar

1 jt 7" K55 26#

Inclination survey and logs will be sent to the BLM's Roswell office.

**McVAY DRILLING COMPANY**

Post Office Box 924
Hobbs, New Mexico 88241
(505) 397-3311
FAX: 39-DRILL

Well Name and Number: Indian Hills Unit # 46

Location: Sec 29, T21S, R24E

Operator: Marathon

Drilling Contractor: McVay Drilling Company

The undersigned certifies that he is an authorized representative of the drilling contractor who drilled the above described well and that he has conducted deviation tests and obtained the following results:

Degrees @ Depth		Degrees @ Depth		Degrees @ Depth	
1/2	379	3	3881	4	5015
1/2	727	3 1/4	4007	3 1/2	5142
1	1177	4	4132	2 3/4	5395
1 1/4	1640	3 3/4	4258	2 3/4	5713
1 1/4	2112	3 1/2	4385	2	6190
2	2588	3 3/4	4511	1 1/2	6415
2	2873	3 3/4	4638	1 1/2	6869
2 1/2	3252	3 3/4	4765	1 1/4	7313
2 3/4	3470	4	4888	1	7818
				1	8071

Drilling Contractor: McVay Drilling Company

By: Jan [Signature]

Subscribed and sworn to before me this 29th day of October, 2003

Jim Hemmick
Notary Public

My Commission Expires: 8-16-05

Lea County, New Mexico

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