

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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.

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

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)

915/687-8357

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

Sec.20, T-21-S, R-24-E SHL @ U/L "B" 475' FNL & 2522' FEL
BHL @ U/L "P" Section 17, T-21-S, R-24-E, 268' FSL & 345' FEL

5. Lease Serial No.

16-00-243A

6. If Indian, Allottee or Tribe Name

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.

30-015-32355

10. Field and Pool, or Exploratory Area

Indian Basin Upper Penn.
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

☐ Acidize ☐ Deepen ☐ Production (Start/Resume) ☐ Water Shut-Off
☐ Alter Casing ☐ Fracture Treat ☐ Reclamation ☐ Well Integrity
☐ Casing Repair ☐ New Construction ☐ Recomplete ☐ Other
☐ Change Plans ☐ Plug and Abandon ☐ Temporarily Abandon
☐ Convert to Injection ☐ Plug Back ☐ 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 Subsequent report to form 3160-5.

ACCEPTED FOR RECORD

MAY 29 2002

ALEXIS C. SWOBODA
PETROLEUM ENGINEER

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

Jerry Fletcher

Title

Engineer Tech.

Date 5/10/02

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Record Only

Title

Date

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.

Marathon Oil Company

Operations Summary Report

Page 1 of 17

Legal Well Name: INDIAN HILLS UNIT NO. 42
 Common Well Name: INDIAN HILLS UNIT NO. 42
 Event Name: ORIGINAL DRILLING
 Contractor Name: MCVAY DRILLING
 Rig Name: MCVAY DRILLING

Spud Date: 4/3/2002
 Start: 4/1/2002
 End:
 Rig Release:
 Group:
 Rig Number: 4

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
4/3/2002	07:00 - 12:00	5.00	MOBD		MIRU	Location: 475' FNL & 2522' FEL, Section 20 T-21-S, R-24-E (Surface) X: 442,227.1 Y: 535,039.5 150' FSL & 750' FEL, Section 17 T-21-S, R-24-E (UP top, 7750 TVD) X: 443,990.7 Y: 535,547.9 API #: 30-015xxxx
4/4/2002	12:00 - 23:00	11.00	MOBD		MIRU	Location built by Sweatt Construction. Rig move by Brantley Trucking.
	06:00 - 11:00	5.00	RURD		MIRU	R/U rig & equipment. Raised derrick @ 2:15 CST. R/U rig & equipment.
	11:00 - 11:30	0.50	BBHD		DRLSUR	Finish R/U rig. Hooking up flowline & pleasing up area.
4/5/2002						Picked up & made up Hammer & 8" collar. Installed kelly drive bushings & rubber.
	11:30 - 20:45	9.25	DOHR		DRLSUR	Drill Open Hole (Rotary) Spudded w/ 12 3/8" hammer.
	20:45 - 21:00	0.25	SURV		DRLSUR	WLS
	21:00 - 06:00	9.00	DOHR		DRLSUR	Drill Open Hole (Rotary)
	06:00 - 07:00	1.00	DOHR		DRLSUR	Drill Open Hole (Rotary) w/ 12 3/8" hammer.
	07:00 - 07:15	0.25	SURV		DRLSUR	Survey
	07:15 - 10:30	3.25	DOHR		DRLSUR	Drill Open Hole (Rotary) w/ 12 3/8" hammer.
	10:30 - 10:45	0.25	CANDC		DRLSUR	Circulate Blow hole clean.
	10:45 - 11:30	0.75	TRIP		DRLSUR	Tripping POOH t/ L/D hammer & bit.
	11:30 - 12:30	1.00	BBHD		DRLSUR	L/D Hammer & bit. Picked up 12 1/4" bit w/ shock sub & reamer.
	12:30 - 13:15	0.75	TRIP		DRLSUR	Tripping. TIH w/ 12 1/4" bit.
	13:15 - 13:45	0.50	WASHR		DRLSUR	Installed rubber & wash 34' t/ btm. No fill.
	13:45 - 20:45	7.00	DOHR		DRLSUR	Drill Open Hole (Rotary) w/ 12 1/4" bit.
	20:45 - 21:00	0.25	SURV		DRLSUR	Survey
	21:00 - 01:30	4.50	DOHR		DRLSUR	Drill Open Hole (Rotary) w/ 12 1/4" bit.
4/6/2002	01:30 - 02:15	0.75	CANDC		DRLSUR	Circulate. Blow hole clean.
	02:15 - 04:15	2.00	TRIP		DRLSUR	Tripping POOH L/D reamer, shock sub, & bit w/ 1-8" collar.
	04:15 - 06:00	1.75	RSCL		CSGSUR	R/U casers, held safety meeting, run 9 5/8" casing.
	06:00 - 06:15	0.25	RSCL		CSGSUR	Run 41 jt's of 9 5/8" 36# csg t/ 1818'. Washed 30' of last jt down t/ btm.
	06:15 - 10:30	4.25	COPS		CSGSUR	Held safety meeting & R/U Halliburton. Cemented w/ 700 sks of Nitrofiled cement Tailed w/ 150 sks. Dropped plug. Bumped plug t/ 700 PSI. @ 9:00 A.M.. Cir. no cement. Pumped 275 sks Nitrofiled cement down back side & capped w/ 75 sks. cement fell.
4/7/2002	10:30 - 13:00	2.50	WOC		CSGSUR	WO Cement
	13:00 - 15:00	2.00	NDNUD		CSGSUR	Picked up surface stack & cut off 9 5/8" csg. Pulled out surface stack & cut off conductor pipe. Pulled out surface flange.
	15:00 - 23:00	8.00	COPS		CSGSUR	Picked up 1" pipe t/ cement. Could only run 1" pipe down t/ 111'. Cemented down 1" pipe. Pumped 5 stages of 50 sks each stage. Waiting 1 1/2 hr's between stages. Till cir t/ surface. R/D Halliburton.
	23:00 - 00:00	1.00	PULD		CSGSUR	L/D 1" & put away. Cleaned up floor.
	00:00 - 06:00	6.00	NDNUD		CSGSUR	Welded on 11" X 3M braden head. N/U BOP's w/ choke manifold.
	06:00 - 07:00	1.00	NDNUD		DRLPRO	NU BOP's
	07:00 - 13:00	6.00	PLOT		DRLPRO	Pressure Test: LOT, Casing, BOP's
	13:00 - 14:45	1.75	BBHD		DRLPRO	BHA/Bit Handling
	14:45 - 16:45	2.00	TRIP		DRLPRO	Tripping
	16:45 - 17:45	1.00	DCP		DRLPRO	Drill Cement and float collar t/ 1793'.
	17:45 - 18:00	0.25	PLOT		DRLPRO	Pressure Test Shoe jt T/ 1000 psi w/ rig pump.
	18:00 - 18:15	0.25	DCP		DRLPRO	Drill Cement & guide shoe t/ 1818'.
	18:15 - 20:00	1.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	20:00 - 20:15	0.25	CANDC		DRLPRO	Circulate hole t/ run Gyro
	20:15 - 00:00	3.75	WLIN		DRLPRO	Wireline Operations. Ran 1st Gyro didn't get reading. Changed out tool. Ran 2nd Gyro same thing. Still didn't get reading. R/D wireline Unit while waiting f/ tools.
	00:00 - 00:45	0.75	DOHR		DRLPRO	Drill Open Hole (Rotary)

Operations Summary Report

Legal Well Name: INDIAN HILLS UNIT NO. 42

Common Well Name: INDIAN HILLS UNIT NO. 42

Event Name: ORIGINAL DRILLING

Start: 4/1/2002

Spud Date: 4/3/2002

Contractor Name: MCVAY DRILLING

Rig Release:

End:

Rig Name: MCVAY DRILLING

Rig Number: 4

Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
4/7/2002	00:45 - 01:00	0.25	CONN		DRLPRO	Connection & Survey
	01:00 - 01:15	0.25	DOHS		DRLPRO	Drill Open Hole (Slide)
	01:15 - 02:00	0.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	02:00 - 03:00	1.00	SAFE		DRLPRO	Safety Activities .Time Adjust.(Daylight Savings Time.)
	03:00 - 03:15	0.25	CONN		DRLPRO	Connection & Survey.
	03:15 - 03:30	0.25	DOHS		DRLPRO	Drill Open Hole (Slide)
	03:30 - 04:00	0.50	DOHR		DRLPRO	Drill Open Hole (Rotary)
	04:00 - 04:15	0.25	CONN		DRLPRO	Connection & Survey.
	04:15 - 04:30	0.25	DOHS		DRLPRO	Drill Open Hole (Slide)
	04:30 - 05:30	1.00	DOHR		DRLPRO	Drill Open Hole (Rotary)
	05:30 - 06:00	0.50	CANDC		DRLPRO	Circulate and Condition Hole
4/8/2002	06:00 - 07:00	1.00	WLIN		DRLPRO	Wireline Operations.Ran Gyro f/ 1880' t/ surface @ 50' interval's. R/D wireline truck.
	07:00 - 07:15	0.25	SURV		DRLPRO	Picked up kelly & Survey
	07:15 - 07:30	0.25	DOHS		DRLPRO	Drill Open Hole (Slide)
	07:30 - 08:00	0.50	DOHR		DRLPRO	Drill Open Hole (Rotary)
	08:00 - 08:15	0.25	CONN		DRLPRO	Connection & Survey
	08:15 - 08:30	0.25	DOHS		DRLPRO	Drill Open Hole (Slide)
	08:30 - 09:15	0.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	09:15 - 09:30	0.25	CONN		DRLPRO	Connection & Survey
	09:30 - 09:45	0.25	DOHS		DRLPRO	Drill Open Hole (Slide)
	09:45 - 10:15	0.50	DOHR		DRLPRO	Drill Open Hole (Rotary)
	10:15 - 10:30	0.25	CONN		DRLPRO	Connection & Survey
	10:30 - 10:45	0.25	DOHS		DRLPRO	Drill Open Hole (Slide)
	10:45 - 11:30	0.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	11:30 - 11:45	0.25	CONN		DRLPRO	Connection & Survey
	11:45 - 12:00	0.25	DOHS		DRLPRO	Drill Open Hole (Slide)
	12:00 - 12:45	0.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	12:45 - 13:00	0.25	CONN		DRLPRO	Connection & Survey
	13:00 - 13:15	0.25	DOHS		DRLPRO	Drill Open Hole (Slide)
	13:15 - 14:00	0.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	14:00 - 14:15	0.25	CONN		DRLPRO	Connection & Survey
	14:15 - 14:30	0.25	DOHS		DRLPRO	Drill Open Hole (Slide)
	14:30 - 15:00	0.50	DOHR		DRLPRO	Drill Open Hole (Rotary)
	15:00 - 15:15	0.25	CONN		DRLPRO	Connection & Survey
	15:15 - 15:30	0.25	DOHS		DRLPRO	Drill Open Hole (Slide)
	15:30 - 16:15	0.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	16:15 - 16:30	0.25	CONN		DRLPRO	Connection & Survey
	16:30 - 16:45	0.25	DOHS		DRLPRO	Drill Open Hole (Slide)
	16:45 - 17:30	0.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	17:30 - 17:45	0.25	CONN		DRLPRO	Connection & Survey
	17:45 - 18:00	0.25	DOHS		DRLPRO	Drill Open Hole (Slide)
	18:00 - 18:30	0.50	DOHR		DRLPRO	Drill Open Hole (Rotary)
	18:30 - 18:45	0.25	CONN		DRLPRO	Connection & Survey
	18:45 - 19:00	0.25	DOHS		DRLPRO	Drill Open Hole (Slide)
	19:00 - 19:45	0.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	19:45 - 20:00	0.25	CONN		DRLPRO	Connection & Survey
	20:00 - 20:15	0.25	DOHS		DRLPRO	Drill Open Hole (Slide)
	20:15 - 20:45	0.50	DOHR		DRLPRO	Drill Open Hole (Rotary)
	20:45 - 21:00	0.25	CONN		DRLPRO	Connection & Survey
	21:00 - 21:15	0.25	DOHS		DRLPRO	Drill Open Hole (Slide)
	21:15 - 21:45	0.50	DOHR		DRLPRO	Drill Open Hole (Rotary)
	21:45 - 22:00	0.25	CONN		DRLPRO	Connection & Survey

Marathon Oil Company
Operations Summary Report

Page 3 of 17

Legal Well Name: INDIAN HILLS UNIT NO. 42

Common Well Name: INDIAN HILLS UNIT NO. 42

Event Name: ORIGINAL DRILLING

Contractor Name: MCVAY DRILLING

Rig Name: MCVAY DRILLING

Start: 4/1/2002

Rig Release:

Rig Number: 4

Spud Date: 4/3/2002

End:

Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
4/8/2002	22:00 - 22:15	0.25	DOHS		DRLPRO	Drill Open Hole (Slide)
	22:15 - 23:00	0.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	23:00 - 23:30	0.50	CONN		DRLPRO	Connection & Survey. Packing on swab was replaced.
	23:30 - 23:45	0.25	DOHS		DRLPRO	Drill Open Hole (Slide)
	23:45 - 00:30	0.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	00:30 - 00:45	0.25	CONN		DRLPRO	Connection & Survey
	00:45 - 01:00	0.25	DOHS		DRLPRO	Drill Open Hole (Slide)
	01:00 - 01:30	0.50	DOHR		DRLPRO	Drill Open Hole (Rotary)
	01:30 - 01:45	0.25	CONN		DRLPRO	Connection & Survey
	01:45 - 02:00	0.25	DOHS		DRLPRO	Drill Open Hole (Slide)
	02:00 - 02:45	0.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	02:45 - 03:00	0.25	CONN		DRLPRO	Connection & Survey
	03:00 - 03:15	0.25	DOHS		DRLPRO	Drill Open Hole (Slide)
	03:15 - 04:00	0.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	04:00 - 04:15	0.25	CONN		DRLPRO	Connection & Survey
	04:15 - 04:30	0.25	DOHS		DRLPRO	Drill Open Hole (Slide)
	04:30 - 05:15	0.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	05:15 - 05:30	0.25	CONN		DRLPRO	Connection & Survey
	05:30 - 05:45	0.25	DOHS		DRLPRO	Drill Open Hole (Slide)
	05:45 - 06:00	0.25	DOHR		DRLPRO	Drill Open Hole (Rotary)
4/9/2002	06:00 - 06:30	0.50	DOHR		DRLPRO	Drill Open Hole (Rotary)
	06:30 - 06:45	0.25	CONN		DRLPRO	Connection & Survey
	06:45 - 07:00	0.25	DOHS		DRLPRO	Drill Open Hole (Slide)
	07:00 - 07:45	0.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	07:45 - 08:00	0.25	CONN		DRLPRO	Connection & Survey
	08:00 - 08:15	0.25	DOHS		DRLPRO	Drill Open Hole (Slide)
	08:15 - 09:00	0.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	09:00 - 09:15	0.25	CONN		DRLPRO	Connection & Survey
	09:15 - 09:30	0.25	DOHS		DRLPRO	Drill Open Hole (Slide)
	09:30 - 10:15	0.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	10:15 - 10:30	0.25	CONN		DRLPRO	Connection & Survey
	10:30 - 10:45	0.25	DOHS		DRLPRO	Drill Open Hole (Slide)
	10:45 - 12:30	1.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	12:30 - 12:45	0.25	CONN		DRLPRO	Connection & Survey
	12:45 - 15:00	2.25	DOHR		DRLPRO	Drill Open Hole (Rotary)
	15:00 - 15:15	0.25	CONN		DRLPRO	Connection & Survey
	15:15 - 17:00	1.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	17:00 - 17:15	0.25	CONN		DRLPRO	Connection & Survey
	17:15 - 17:30	0.25	DOHS		DRLPRO	Drill Open Hole (Slide)
	17:30 - 18:15	0.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	18:15 - 18:30	0.25	CONN		DRLPRO	Connection & Survey
	18:30 - 19:15	0.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	19:15 - 19:30	0.25	CONN		DRLPRO	Connection & Survey
	19:30 - 20:15	0.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	20:15 - 20:30	0.25	CONN		DRLPRO	Connection & Survey
	20:30 - 21:00	0.50	DOHR		DRLPRO	Drill Open Hole (Rotary)
	21:00 - 21:15	0.25	CONN		DRLPRO	Connection & Survey
	21:15 - 23:00	1.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	23:00 - 23:15	0.25	CONN		DRLPRO	Connection & Survey
	23:15 - 23:30	0.25	DOHS		DRLPRO	Drill Open Hole (Slide)
	23:30 - 01:30	2.00	DOHR		DRLPRO	Drill Open Hole (Rotary)
	01:30 - 01:45	0.25	CONN		DRLPRO	Connection & Survey
	01:45 - 02:15	0.50	DOHS		DRLPRO	Drill Open Hole (Slide)

Operations Summary Report

Legal Well Name: INDIAN HILLS UNIT NO. 42

Common Well Name: INDIAN HILLS UNIT NO. 42

Event Name: ORIGINAL DRILLING

Start: 4/1/2002

Spud Date: 4/3/2002

Contractor Name: MCVAY DRILLING

Rig Release:

End:

Rig Name: MCVAY DRILLING

Rig Number: 4

Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
4/9/2002	02:15 - 03:00	0.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	03:00 - 03:15	0.25	CONN		DRLPRO	Connection & Survey
	03:15 - 04:00	0.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	04:00 - 04:30	0.50	CANDC		DRLPRO	Circulate and Condition Hole
4/10/2002	04:30 - 06:00	1.50	TRIP		DRLPRO	POOH T/ R/U Halliburton & Run Cement Bond Log.
	06:00 - 07:00	1.00	TRIP		DRLPRO	Finish TOOH
	07:00 - 11:00	4.00	WLIN		DRLPRO	R/U Halliburton Wireline & Ran cement bond log f/ 1814' t/ surface. R/D wireline unit.
	11:00 - 12:00	1.00	BBHD		DRLPRO	Picked up same motor & added new bit t/ string w/ RT tool.up string.
	12:00 - 13:15	1.25	TRIP		DRLPRO	TIH w/ new bit.
	13:15 - 13:30	0.25	WASHR		DRLPRO	Wash t/ btm. 30' no fill.
	13:30 - 14:15	0.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	14:15 - 14:30	0.25	CONN		DRLPRO	Connection & Survey. BOP drill .
	14:30 - 14:45	0.25	DOHS		DRLPRO	Drill Open Hole (Slide)
	14:45 - 16:30	1.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	16:30 - 16:45	0.25	CONN		DRLPRO	Connection & Survey. BOP drill.
	16:45 - 17:00	0.25	DOHS		DRLPRO	Drill Open Hole (Slide)
	17:00 - 18:45	1.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	18:45 - 19:00	0.25	CONN		DRLPRO	Connection & Survey
	19:00 - 19:15	0.25	DOHS		DRLPRO	Drill Open Hole (Slide)
	19:15 - 19:30	0.25	RRCO		DRLPRO	Swap pumps. Swab went out on #2 pump. Pump #1 was slower pump rate 300 gals max. while drilling.
	19:30 - 21:00	1.50	DOHR		DRLPRO	Drill Open Hole (Rotary)
	21:00 - 21:15	0.25	RRCO		DRLPRO	Swapped back t/ #2 pump after repair. PZ-9
	21:15 - 21:45	0.50	DOHR		DRLPRO	Drill Open Hole (Rotary)
	21:45 - 22:00	0.25	CONN		DRLPRO	Connection & Survey
	22:00 - 22:30	0.50	DOHS		DRLPRO	Drill Open Hole (Slide)
	22:30 - 00:15	1.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	00:15 - 00:30	0.25	CONN		DRLPRO	Connection & Survey
	00:30 - 00:45	0.25	DOHS		DRLPRO	Drill Open Hole (Slide)
	00:45 - 02:30	1.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	02:30 - 02:45	0.25	CONN		DRLPRO	Connection & Survey
	02:45 - 03:00	0.25	DOHS		DRLPRO	Drill Open Hole (Slide)
	03:00 - 04:45	1.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	04:45 - 05:00	0.25	CONN		DRLPRO	Connection & Survey. BOP drill.
	05:00 - 05:50	0.83	DOHS		DRLPRO	Drill Open Hole (Slide)
4/11/2002	05:50 - 06:00	0.17	DOHR		DRLPRO	Drill Open Hole (Rotary)
	06:00 - 06:45	0.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	06:45 - 07:00	0.25	SURV		DRLPRO	Survey or Orienting Operations
	07:00 - 07:15	0.25	DOHS		DRLPRO	Drill Open Hole (Slide)
	07:15 - 09:15	2.00	DOHR		DRLPRO	Drill Open Hole (Rotary)
	09:15 - 09:30	0.25	SURV		DRLPRO	Survey or Orienting Operations
	09:30 - 11:45	2.25	DOHR		DRLPRO	Drill Open Hole (Rotary)
	11:45 - 12:00	0.25	SURV		DRLPRO	Survey or Orienting Operations
	12:00 - 14:00	2.00	DOHR		DRLPRO	Drill Open Hole (Rotary)
	14:00 - 14:15	0.25	SURV		DRLPRO	Survey or Orienting Operations
	14:15 - 16:45	2.50	DOHR		DRLPRO	Drill Open Hole (Rotary)
	16:45 - 17:00	0.25	SURV		DRLPRO	Survey or Orienting Operations
	17:00 - 17:15	0.25	DOHS		DRLPRO	Drill Open Hole (Slide)
	17:15 - 19:15	2.00	DOHR		DRLPRO	Drill Open Hole (Rotary)
	19:15 - 19:30	0.25	SURV		DRLPRO	Survey or Orienting Operations
	19:30 - 20:00	0.50	DOHS		DRLPRO	Drill Open Hole (Slide)
	20:00 - 22:00	2.00	DOHR		DRLPRO	Drill Open Hole (Rotary)

Marathon Oil Company

Operations Summary Report

Page 5 of 17

Legal Well Name: INDIAN HILLS UNIT NO. 42

Common Well Name: INDIAN HILLS UNIT NO. 42

Event Name: ORIGINAL DRILLING

Contractor Name: MCVAY DRILLING

Rig Name: MCVAY DRILLING

Start: 4/1/2002

Rig Release:

Rig Number: 4

Spud Date: 4/3/2002

End:

Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
4/11/2002	22:00 - 22:15	0.25	SURV		DRLPRO	Survey or Orienting Operations
	22:15 - 22:30	0.25	DOHS		DRLPRO	Drill Open Hole (Slide)
	22:30 - 00:00	1.50	DOHR		DRLPRO	Drill Open Hole (Rotary)
	00:00 - 00:30	0.50	DOHR		DRLPRO	Drill Open Hole (Rotary)
	00:30 - 00:45	0.25	SURV		DRLPRO	Survey or Orienting Operations
	00:45 - 01:00	0.25	DOHS		DRLPRO	Drill Open Hole (Slide)
	01:00 - 03:00	2.00	DOHR		DRLPRO	Drill Open Hole (Rotary)
	03:00 - 03:15	0.25	SURV		DRLPRO	Survey or Orienting Operations
	03:15 - 03:45	0.50	DOHS		DRLPRO	Drill Open Hole (Slide)
	03:45 - 05:45	2.00	DOHR		DRLPRO	Drill Open Hole (Rotary)
	05:45 - 06:00	0.25	SURV		DRLPRO	Survey or Orienting Operations
	06:00 - 08:00	2.00	DOHR		DRLPRO	Drill Open Hole (Rotary)
4/12/2002	08:00 - 08:15	0.25	SURV		DRLPRO	Survey or Orienting Operations. BOP drill.
	08:15 - 10:00	1.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	10:00 - 10:15	0.25	SURV		DRLPRO	Survey or Orienting Operations
	10:15 - 12:30	2.25	DOHR		DRLPRO	Drill Open Hole (Rotary)
	12:30 - 12:45	0.25	SURV		DRLPRO	Survey or Orienting Operations
	12:45 - 15:15	2.50	DOHR		DRLPRO	Drill Open Hole (Rotary)
	15:15 - 15:30	0.25	SURV		DRLPRO	Survey or Orienting Operations
	15:30 - 18:00	2.50	DOHR		DRLPRO	Drill Open Hole (Rotary)
	18:00 - 18:15	0.25	SURV		DRLPRO	Survey or Orienting Operations. BOP drill.
	18:15 - 20:45	2.50	DOHR		DRLPRO	Drill Open Hole (Rotary)
	20:45 - 21:00	0.25	SURV		DRLPRO	Survey or Orienting Operations
	21:00 - 23:15	2.25	DOHR		DRLPRO	Drill Open Hole (Rotary)
	23:15 - 23:30	0.25	SURV		DRLPRO	Survey or Orienting Operations
	23:30 - 00:00	0.50	DOHS		DRLPRO	Drill Open Hole (Slide)
	00:00 - 02:00	2.00	DOHR		DRLPRO	Drill Open Hole (Rotary)
	02:00 - 02:15	0.25	SURV		DRLPRO	Survey or Orienting Operations
	02:15 - 02:45	0.50	DOHS		DRLPRO	Drill Open Hole (Slide)
	02:45 - 05:00	2.25	DOHR		DRLPRO	Drill Open Hole (Rotary)
	05:00 - 05:45	0.75	DOHS		DRLPRO	Drill Open Hole (Slide)
	05:45 - 06:00	0.25	DOHR		DRLPRO	Drill Open Hole (Rotary)
4/13/2002	06:00 - 09:00	3.00	TRIP		DRLPRO	Motor locked up.TOH. Motor was locked. Bit in good cond.
	09:00 - 10:30	1.50	BBHD		DRLPRO	BHA/Bit Handling
	10:30 - 12:30	2.00	RRCO		DRLPRO	Repair Rig, Contractor- High drum clutch.
	12:30 - 15:00	2.50	TRIP		DRLPRO	TIH w/ new motor & new 8-3/4" bit (new style HP62-KPR has longer teeth). Moved RT-Tool to 3108' above bit (17 stds. above HWDP).
	15:00 - 15:30	0.50	WASHR		DRLPRO	Wash 37' to bottom w/ no fill.
	15:30 - 17:00	1.50	DOHR		DRLPRO	Drill Open Hole (Rotary)
	17:00 - 17:15	0.25	SURV		DRLPRO	Survey or Orienting Operations.BOP drill.
	17:15 - 17:45	0.50	DOHS		DRLPRO	Drill Open Hole (Slide)
	17:45 - 19:45	2.00	DOHR		DRLPRO	Drill Open Hole (Rotary)
	19:45 - 20:00	0.25	SURV		DRLPRO	Survey or Orienting Operations
	20:00 - 20:15	0.25	DOHS		DRLPRO	Drill Open Hole (Slide)
	20:15 - 22:15	2.00	DOHR		DRLPRO	Drill Open Hole (Rotary)
	22:15 - 22:30	0.25	SURV		DRLPRO	Connection & Survey or Orienting Operations
	22:30 - 22:45	0.25	SURV		DRLPRO	Change out transducer.Survey or Orienting Operations
	22:45 - 00:00	1.25	DOHR		DRLPRO	Drill Open Hole (Rotary)
	00:00 - 00:45	0.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	00:45 - 01:00	0.25	SURV		DRLPRO	Survey or Orienting Operations. BOP drill.
	01:00 - 03:00	2.00	DOHR		DRLPRO	Drill Open Hole (Rotary)
	03:00 - 03:15	0.25	SURV		DRLPRO	Survey or Orienting Operations
	03:15 - 05:30	2.25	DOHR		DRLPRO	Drill Open Hole (Rotary)

Marathon Oil Company
Operations Summary Report

Page 6 of 17

Legal Well Name: INDIAN HILLS UNIT NO. 42
Common Well Name: INDIAN HILLS UNIT NO. 42
Event Name: ORIGINAL DRILLING
Contractor Name: MCVAY DRILLING
Rig Name: MCVAY DRILLING

Start: 4/1/2002
Rig Release:
Rig Number: 4
Spud Date: 4/3/2002
End:
Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
4/13/2002	05:30 - 05:45	0.25	SURV		DRLPRO	Survey or Orienting Operations
	05:45 - 06:00	0.25	DOHR		DRLPRO	Drill Open Hole (Rotary)
4/14/2002	06:00 - 08:15	2.25	DOHR		DRLPRO	Drill Open Hole (Rotary)
	08:15 - 08:30	0.25	SURV		DRLPRO	Survey or Orienting Operations. BOP drill.
	08:30 - 08:45	0.25	DOHS		DRLPRO	Drill Open Hole (Slide)
	08:45 - 10:45	2.00	DOHR		DRLPRO	Drill Open Hole (Rotary)
	10:45 - 11:00	0.25	SURV		DRLPRO	Survey or Orienting Operations
	11:00 - 11:15	0.25	DOHS		DRLPRO	Drill Open Hole (Slide)
	11:15 - 13:15	2.00	DOHR		DRLPRO	Drill Open Hole (Rotary)
	13:15 - 13:30	0.25	SURV		DRLPRO	Survey or Orienting Operations
	13:30 - 14:00	0.50	DOHS		DRLPRO	Drill Open Hole (Slide)
	14:00 - 16:15	2.25	DOHR		DRLPRO	Drill Open Hole (Rotary)
	16:15 - 16:30	0.25	SURV		DRLPRO	Survey or Orienting Operations. BOP drill.
	16:30 - 19:15	2.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	19:15 - 19:30	0.25	SURV		DRLPRO	Survey or Orienting Operations
	19:30 - 20:00	0.50	DOHS		DRLPRO	Drill Open Hole (Slide)
	20:00 - 21:45	1.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	21:45 - 22:00	0.25	SURV		DRLPRO	Survey or Orienting Operations
	22:00 - 22:15	0.25	DOHS		DRLPRO	Drill Open Hole (Slide)
	22:15 - 00:00	1.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	00:00 - 00:15	0.25	SURV		DRLPRO	Survey or Orienting Operations
	00:15 - 00:45	0.50	DOHS		DRLPRO	Drill Open Hole (Slide)
	00:45 - 02:15	1.50	DOHR		DRLPRO	Drill Open Hole (Rotary)
	02:15 - 02:30	0.25	SURV		DRLPRO	Survey or Orienting Operations. BOP drill.
	02:30 - 04:15	1.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	04:15 - 04:30	0.25	SURV		DRLPRO	Survey or Orienting Operations
	04:30 - 06:00	1.50	DOHR		DRLPRO	Drill Open Hole (Rotary)
4/15/2002	06:00 - 06:15	0.25	DOHR		DRLPRO	Drill Open Hole (Rotary)
	06:15 - 06:30	0.25	SURV		DRLPRO	Survey or Orienting Operations
	06:30 - 08:30	2.00	DOHR		DRLPRO	Drill Open Hole (Rotary)
	08:30 - 08:45	0.25	SURV		DRLPRO	Survey or Orienting Operations
	08:45 - 09:15	0.50	DOHS		DRLPRO	Drill Open Hole (Slide)
	09:15 - 11:15	2.00	DOHR		DRLPRO	Drill Open Hole (Rotary)
	11:15 - 11:30	0.25	SURV		DRLPRO	Survey or Orienting Operations
	11:30 - 12:00	0.50	DOHS		DRLPRO	Drill Open Hole (Slide)
	12:00 - 14:00	2.00	DOHR		DRLPRO	Drill Open Hole (Rotary)
	14:00 - 14:15	0.25	SURV		DRLPRO	Survey or Orienting Operations
	14:15 - 14:45	0.50	DOHS		DRLPRO	Drill Open Hole (Slide)
	14:45 - 16:30	1.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	16:30 - 16:45	0.25	SURV		DRLPRO	Survey or Orienting Operations
	16:45 - 17:00	0.25	DOHS		DRLPRO	Drill Open Hole (Slide)
	17:00 - 18:45	1.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	18:45 - 19:00	0.25	SURV		DRLPRO	Survey or Orienting Operations
	19:00 - 19:15	0.25	DOHS		DRLPRO	Drill Open Hole (Slide)
	19:15 - 21:15	2.00	DOHR		DRLPRO	Drill Open Hole (Rotary)
	21:15 - 21:30	0.25	SURV		DRLPRO	Survey or Orienting Operations
	21:30 - 21:45	0.25	DOHS		DRLPRO	Drill Open Hole (Slide)
	21:45 - 23:30	1.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	23:30 - 23:45	0.25	SURV		DRLPRO	Survey or Orienting Operations
	23:45 - 01:30	1.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	01:30 - 01:45	0.25	SURV		DRLPRO	Survey or Orienting Operations
	01:45 - 02:00	0.25	RRCO		DRLPRO	Repair Rig, Contractor-Mud pump.
	02:00 - 04:00	2.00	DOHR		DRLPRO	Drill Open Hole (Rotary)

Marathon Oil Company
Operations Summary Report

Page 7 of 17

Legal Well Name: INDIAN HILLS UNIT NO. 42

Common Well Name: INDIAN HILLS UNIT NO. 42

Event Name: ORIGINAL DRILLING

Contractor Name: MCVAY DRILLING

Rig Name: MCVAY DRILLING

Start: 4/1/2002

Rig Release:

Rig Number: 4

Spud Date: 4/3/2002

End:

Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
4/15/2002	04:00 - 04:15	0.25	SURV		DRLPRO	Survey or Orienting Operations
	04:15 - 04:30	0.25	DOHS		DRLPRO	Drill Open Hole (Slide)
	04:30 - 06:00	1.50	DOHR		DRLPRO	Drill Open Hole (Rotary)
4/16/2002	06:00 - 06:15	0.25	DOHR		DRLPRO	Drill Open Hole (Rotary)
	06:15 - 06:30	0.25	SURV		DRLPRO	Survey or Orienting Operations
	06:30 - 07:00	0.50	DOHS		DRLPRO	Drill Open Hole (Slide)
	07:00 - 08:45	1.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	08:45 - 09:00	0.25	SURV		DRLPRO	Survey or Orienting Operations
	09:00 - 09:45	0.75	DOHS		DRLPRO	Drill Open Hole (Slide)
	09:45 - 11:30	1.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	11:30 - 11:45	0.25	SURV		DRLPRO	Survey or Orienting Operations
	11:45 - 12:15	0.50	DOHS		DRLPRO	Drill Open Hole (Slide). Pumped sweep @ 6652 for trip.
	12:15 - 13:45	1.50	DOHR		DRLPRO	Drill Open Hole (Rotary)
	13:45 - 14:00	0.25	CANDC		DRLPRO	Circulate and set kelly back.
	14:00 - 15:00	1.00	TRIP		DRLPRO	Tripping out 19 stds. to add 2nd RT-Tool.
	15:00 - 16:30	1.50	RRCO		DRLPRO	Repair Rig, Contractor. Replace rotary lock. Check drawworks chains.
	16:30 - 17:45	1.25	TRIP		DRLPRO	Add 2nd, 7-5/8" RT-Tool to string, 55jts. above 7-5/8" RT #1. TIH w/ RT-Tools @ 3108' above bit & 4850' above bit.
	17:45 - 18:00	0.25	WASHR		DRLPRO	Wash 18' to bottom w/ no fill.
	18:00 - 18:15	0.25	DOHR		DRLPRO	Drill Open Hole (Rotary)
	18:15 - 18:45	0.50	DOHS		DRLPRO	Drill Open Hole (Slide)
	18:45 - 21:00	2.25	DOHR		DRLPRO	Drill Open Hole (Rotary)
	21:00 - 21:15	0.25	SURV		DRLPRO	Survey or Orienting Operations
	21:15 - 21:45	0.50	DOHS		DRLPRO	Drill Open Hole (Slide)
	21:45 - 23:15	1.50	DOHR		DRLPRO	Drill Open Hole (Rotary)
	23:15 - 23:30	0.25	SURV		DRLPRO	Survey or Orienting Operations
	23:30 - 01:30	2.00	DOHR		DRLPRO	Drill Open Hole (Rotary)
	01:30 - 01:45	0.25	SURV		DRLPRO	Survey or Orienting Operations
	01:45 - 03:45	2.00	DOHR		DRLPRO	Drill Open Hole (Rotary)
	03:45 - 04:00	0.25	SURV		DRLPRO	Survey or Orienting Operations
	04:00 - 06:00	2.00	DOHR		DRLPRO	Drill Open Hole (Rotary)
4/17/2002	06:00 - 06:15	0.25	SURV		DRLPRO	Survey or Orienting Operations
	06:15 - 07:00	0.75	DOHS		DRLPRO	Drill Open Hole (Slide)
	07:00 - 09:00	2.00	DOHR		DRLPRO	Drill Open Hole (Rotary). BOP drill.
	09:00 - 09:15	0.25	SURV		DRLPRO	Survey or Orienting Operations
	09:15 - 09:45	0.50	DOHS		DRLPRO	Drill Open Hole (Slide)
	09:45 - 10:45	1.00	DOHR		DRLPRO	Drill Open Hole (Rotary)
	10:45 - 11:15	0.50	NDNUD		DRLPRO	Install rotating rubber.
	11:15 - 12:15	1.00	DOHR		DRLPRO	Drill Open Hole (Rotary)
	12:15 - 12:30	0.25	SURV		DRLPRO	Survey or Orienting Operations
	12:30 - 14:30	2.00	DOHR		DRLPRO	Drill Open Hole (Rotary)
	14:30 - 14:45	0.25	SURV		DRLPRO	Survey or Orienting Operations
	14:45 - 16:45	2.00	DOHR		DRLPRO	Drill Open Hole (Rotary). BOP drill.
	16:45 - 17:00	0.25	SURV		DRLPRO	Survey or Orienting Operations
	17:00 - 19:00	2.00	DOHR		DRLPRO	Drill Open Hole (Rotary)
	19:00 - 19:15	0.25	SURV		DRLPRO	Survey or Orienting Operations
	19:15 - 21:45	2.50	DOHR		DRLPRO	Drill Open Hole (Rotary). Bit torque increased during last 30 minutes. Had 3 rounds backlash on bottom & 2 off bottom.
	21:45 - 22:00	0.25	SURV		DRLPRO	Survey or Orienting Operations
	22:00 - 02:30	4.50	TRIP		DRLPRO	TOH w/ no problems. Had fairly smoothe pull after leaving bottom although drag was high near bottom.
	02:30 - 03:45	1.25	BBHD		DRLPRO	BHA/Bit Handling. L/D motor & bit. Bit had two loose cones w/ one thin chunk broke off one cone & many worn & broken teeth. Pick up new

Marathon Oil Company
Operations Summary Report

Page 8 of 17

Legal Well Name: INDIAN HILLS UNIT NO. 42
Common Well Name: INDIAN HILLS UNIT NO. 42
Event Name: ORIGINAL DRILLING
Contractor Name: MCVAY DRILLING
Rig Name: MCVAY DRILLING

Spud Date: 4/3/2002
Start: 4/1/2002
End:
Rig Release:
Group:
Rig Number: 4

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
4/17/2002	02:30 - 03:45	1.25	BBHD		DRLPRO	motor & new bit #6.
	03:45 - 06:00	2.25	TRIP		DRLPRO	TIH w/ new bit & motor, respacing both 7-5/8" RT-Tools to 13 stds. & 43 stds. above HWDP. Bottom RT 2728' from bit. Top RT 5578 from bit. Moved bottom RT down to start in area where constant sliding began.
4/18/2002	06:00 - 08:00	2.00	TRIP		DRLPRO	Finish TIH w/ new bit.
	08:00 - 08:45	0.75	WASHR		DRLPRO	Install rotating rubber & wash/ream f/ 20' t/ btm.
	08:45 - 10:45	2.00	DOHR		DRLPRO	Drill Open Hole (Rotary)
	10:45 - 11:00	0.25	CONN		DRLPRO	Connection / Survey
	11:00 - 11:15	0.25	DOHS		DRLPRO	Drill Open Hole (Slide)
	11:15 - 12:30	1.25	DOHR		DRLPRO	Drill Open Hole (Rotary)
	12:30 - 12:45	0.25	CONN		DRLPRO	Connection / Survey
	12:45 - 13:15	0.50	DOHS		DRLPRO	Drill Open Hole (Slide)
	13:15 - 13:45	0.50	DOHR		DRLPRO	Drill Open Hole (Rotary)
	13:45 - 14:00	0.25	CONN		DRLPRO	Connection / Survey
	14:00 - 14:30	0.50	DOHS		DRLPRO	Drill Open Hole (Slide)
	14:30 - 15:00	0.50	DOHR		DRLPRO	Drill Open Hole (Rotary)
	15:00 - 15:15	0.25	CONN		DRLPRO	Connection / Survey
	15:15 - 15:45	0.50	DOHS		DRLPRO	Drill Open Hole (Slide)
	15:45 - 16:15	0.50	DOHR		DRLPRO	Drill Open Hole (Rotary)
	16:15 - 16:30	0.25	CONN		DRLPRO	Connection / Survey
	16:30 - 17:00	0.50	DOHS		DRLPRO	Drill Open Hole (Slide)
	17:00 - 17:30	0.50	DOHR		DRLPRO	Drill Open Hole (Rotary)
	17:30 - 17:45	0.25	CONN		DRLPRO	Connection / Survey
	17:45 - 18:00	0.25	DOHS		DRLPRO	Drill Open Hole (Slide)
	18:00 - 18:30	0.50	DOHR		DRLPRO	Drill Open Hole (Rotary)
	18:30 - 18:45	0.25	CONN		DRLPRO	Connection / Survey
	18:45 - 19:15	0.50	DOHS		DRLPRO	Drill Open Hole (Slide)
	19:15 - 19:45	0.50	DOHR		DRLPRO	Drill Open Hole (Rotary)
	19:45 - 20:00	0.25	CONN		DRLPRO	Connection / Survey
	20:00 - 20:30	0.50	DOHS		DRLPRO	Drill Open Hole (Slide)
	20:30 - 20:45	0.25	DOHR		DRLPRO	Drill Open Hole (Rotary)
	20:45 - 21:00	0.25	CONN		DRLPRO	Connection / Survey
	21:00 - 21:30	0.50	DOHS		DRLPRO	Drill Open Hole (Slide)
	21:30 - 22:00	0.50	DOHR		DRLPRO	Drill Open Hole (Rotary)
	22:00 - 22:15	0.25	CONN		DRLPRO	Connection / Survey
	22:15 - 22:45	0.50	DOHS		DRLPRO	Drill Open Hole (Slide)
	22:45 - 23:15	0.50	DOHR		DRLPRO	Drill Open Hole (Rotary)
	23:15 - 23:30	0.25	CONN		DRLPRO	Connection / Survey
	23:30 - 00:00	0.50	DOHS		DRLPRO	Drill Open Hole (Slide)
	00:00 - 00:30	0.50	DOHR		DRLPRO	Drill Open Hole (Rotary)
	00:30 - 00:45	0.25	CONN		DRLPRO	Connection / Survey
	00:45 - 01:15	0.50	DOHS		DRLPRO	Drill Open Hole (Slide)
	01:15 - 01:45	0.50	DOHR		DRLPRO	Drill Open Hole (Rotary)
	01:45 - 02:00	0.25	CONN		DRLPRO	Connection / Survey
	02:00 - 02:30	0.50	DOHS		DRLPRO	Drill Open Hole (Slide)
	02:30 - 03:00	0.50	DOHR		DRLPRO	Drill Open Hole (Rotary)
	03:00 - 03:15	0.25	CONN		DRLPRO	Connection / Survey
	03:15 - 04:00	0.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	04:00 - 04:15	0.25	CONN		DRLPRO	Connection / Survey
	04:15 - 05:00	0.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	05:00 - 05:15	0.25	CONN		DRLPRO	Connection / Survey
	05:15 - 06:00	0.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
4/19/2002	06:00 - 06:15	0.25	CONN		DRLPRO	Connection / Surveys

Marathon Oil Company

Operations Summary Report

Page 9 of 17

Legal Well Name: INDIAN HILLS UNIT NO. 42
 Common Well Name: INDIAN HILLS UNIT NO. 42
 Event Name: ORIGINAL DRILLING
 Contractor Name: MCVAY DRILLING
 Rig Name: MCVAY DRILLING

Spud Date: 4/3/2002
 End:
 Group:

Start: 4/1/2002
 Rig Release:
 Rig Number: 4

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
4/19/2002	06:15 - 07:00	0.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	07:00 - 07:15	0.25	CONN		DRLPRO	Connection / Survey
	07:15 - 07:45	0.50	DOHS		DRLPRO	Drill Open Hole (Slide)
	07:45 - 09:00	1.25	DOHR		DRLPRO	Drill Open Hole (Rotary)
	09:00 - 09:15	0.25	CONN		DRLPRO	Connection / Survey
	09:15 - 09:45	0.50	DOHS		DRLPRO	Drill Open Hole (Slide)
	09:45 - 11:15	1.50	DOHR		DRLPRO	Drill Open Hole (Rotary)
	11:15 - 11:30	0.25	CONN		DRLPRO	Connection / Survey
	11:30 - 13:15	1.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	13:15 - 13:30	0.25	CONN		DRLPRO	Connection / Survey
	13:30 - 14:45	1.25	DOHR		DRLPRO	Drill Open Hole (Rotary) / Lost returns @ 8243'. Got back returns @ 8253'. Lost returns again @ 8258' & never got them back.
	14:45 - 15:00	0.25	CONN		DRLPRO	Connection / Survey
	15:00 - 15:30	0.50	DOHS		DRLPRO	Drill Open Hole (Slide)
	15:30 - 16:00	0.50	DOHR		DRLPRO	Drill Open Hole (Rotary) Pump sweep while drilling. Torqued up rotary table & stopped completely. Pump pressure was about 1800 PSI when pressure dropped & got stuck.
	16:00 - 16:45	0.75	WPIP		DRLPRO	Work Pipe. Stuck @ 8331'
	16:45 - 18:30	1.75	WASHR		DRLPRO	POOH w/ 3 it's t/ 8250'. Washed & reamed f/ 8250' t/ 8331'
	18:30 - 21:45	3.25	DOHR		DRLPRO	Drill Open Hole (Rotary). Pumped 40 bbl sweeps w/ LCM t/ try try t/ heal hole. No good.
	21:45 - 22:00	0.25	CANDC		DRLPRO	Spotted 90 bbl LCM pill on btm.
	22:00 - 03:30	5.50	TRIP		DRLPRO	Tripping. POOH t/ L/D R.T tool & stabilizer f/ above motor.
	03:30 - 04:00	0.50	RRCO		DRLPRO	Repair Rig, Contractor. Wo9rked on fresh wtr pump.
	04:00 - 05:15	1.25	TRIP		DRLPRO	TIH w/ same motor without upper stabiler & left out lower RT tool t/ reduce drag.
4/20/2002	05:15 - 06:00	0.75	SCDL		DRLPRO	Slip and Cut Drill Line
	06:00 - 08:45	2.75	TRIP		DRLPRO	Tripping hole after L/D Lower R.T tool & stabilizer above motor. But tripping in w/ same motor & bit.
	08:45 - 09:15	0.50	WASHR		DRLPRO	Install rubber & wash down 30' t/ btm.
	09:15 - 09:30	0.25	DOHR		DRLPRO	Drill Open Hole (Rotary)
	09:30 - 09:45	0.25	CONN		DRLPRO	Connection / Survey
	09:45 - 12:30	2.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	12:30 - 12:45	0.25	CONN		DRLPRO	Connection / Survey
	12:45 - 13:00	0.25	DOHS		DRLPRO	Drill Open Hole (Slide) . Tried t/ slide. Sticking t/ wall & not make any footage.
	13:00 - 13:45	0.75	DOHR		DRLPRO	Drill Open Hole (Rotary). Without being able t/ slide. Incline would be t/ high by T.D.
	13:45 - 14:00	0.25	CANDC		DRLPRO	Spotted LCM pill on btm.
	14:00 - 18:30	4.50	TRIP		DRLPRO	Tripping. POOH t/ L/D motor.
	18:30 - 20:00	1.50	BBHD		DRLPRO	L/D motor, check bit. Picked up 7 7/8" roller reamer & added stabilizer above teleco.
	20:00 - 00:30	4.50	TRIP		DRLPRO	Tripping
	00:30 - 01:00	0.50	WASHR		DRLPRO	Pick up rotating head & wash t/ btm 37'.
4/21/2002	01:00 - 01:45	0.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	01:45 - 02:00	0.25	CONN		DRLPRO	Connection / Survey
	02:00 - 06:00	4.00	DOHR		DRLPRO	Drill Open Hole (Rotary)
	06:00 - 06:15	0.25	DOHR		DRLPRO	Drill Open Hole (Rotary)
	06:15 - 06:30	0.25	CONN		DRLPRO	Connection & Survey
	06:30 - 11:30	5.00	DOHR		DRLPRO	Drill Open Hole (Rotary)
	11:30 - 11:45	0.25	CONN		DRLPRO	Connection & Survey. BOP drill.
	11:45 - 16:45	5.00	DOHR		DRLPRO	Drill Open Hole (Rotary)
	16:45 - 17:00	0.25	CONN		DRLPRO	Connection & Survey. BOP drill.

Marathon Oil Company
Operations Summary Report

Page 10 of 17

Legal Well Name: INDIAN HILLS UNIT NO. 42
Common Well Name: INDIAN HILLS UNIT NO. 42
Event Name: ORIGINAL DRILLING
Contractor Name: MCVAY DRILLING
Rig Name: MCVAY DRILLING

Start: 4/1/2002
Rig Release:
Rig Number: 4
Spud Date: 4/3/2002
End:
Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
4/21/2002	17:00 - 23:15	6.25	DOHR		DRLPRO	Drill Open Hole (Rotary)
	23:15 - 23:30	0.25	CONN		DRLPRO	Connection & Survey.
	23:30 - 02:30	3.00	DOHR		DRLPRO	Drill Open Hole (Rotary)
	02:30 - 04:00	1.50	CANDC		DRLPRO	Circulate and Condition Hole Got back about 10% returns
	04:00 - 05:15	1.25	TRIP		DRLPRO	Short trip 10 stands
4/22/2002	05:15 - 05:30	0.25	WASHR		DRLPRO	Picked up kelly & washed 41' t/ btm. No fill.
	05:30 - 06:00	0.50	CANDC		DRLPRO	Spotted sweep on btm.
	06:00 - 11:00	5.00	TRIP		DRLPRO	TOOH f/ logs.(Strapped out)
	11:00 - 12:00	1.00	BBHD		DRLPRO	L/D BHA.(Monel collar, Teledrift, Thruster, & bit.
	12:00 - 13:30	1.50	WLIN		DRLPRO	Wireline Operations. R/U Schlumberger & held safety meeting.
	13:30 - 16:00	2.50	WLIN		DRLPRO	Wireline Operations. RIH w/ platform express w/ FMI. t/ btm. Stuck tool @ 8854'.
	16:00 - 21:00	5.00	WLIN		DRLPRO	Wireline Operations. Worked stuck tool until fisherman arrived.
	21:00 - 23:00	2.00	WLIN		DRLPRO	Wireline Operations. Unloaded fishing tools & hung up shive in derrick.
	23:00 - 00:00	1.00	WLIN		DRLPRO	Wireline Operations. Picked up lubricator & set T-Bar & cut logging line. Installed rope sockets.
	00:00 - 06:00	6.00	WLIN		DRLPRO	Wireline Operations. Picked up fishing tools.(Guide shoe, overshot, 2-extensions, Bushing, Cross over sub, Pump out sub, 23 HWDP jts, & drillpipe. (Takes lots of time stripping in hole w/ pipe over line).
4/23/2002	06:00 - 10:00	4.00	TRIP		DRLPRO	Finish TIH w/ over shot & strapped & picked up 19 jt's f/ rack to replace collars.Tagged up @ 8786.
	10:00 - 11:30	1.50	WOE		DRLPRO	Waited on packoff. Had wrong size of pack-off to use while cir. down hole w/ drillpipe. .
	11:30 - 16:00	4.50	WASHR		DRLPRO	Made up chickson & packoff. Wash down f/ 8786' to 8818'. Pumping sweeps of gel would allow pipe t/ slide down hole. Had lot of drag going down & when POOH. Picked up 550 PSI on pump pressure when latched on to logging tools.
	16:00 - 19:30	3.50	WLIN		DRLPRO	L/D 2 jt's of pipe. Installed T-bar & pulled wire line f/ rope socket. R/D shives f/ top of derrick & set up to spool up cable. Thought to have left 100 to 150' of wireline in hole by schlumberger figures since it did not part on rope socket. R/D logging truck.
	19:30 - 00:00	4.50	TRIP		DRLPRO	Chain out of hole w/ fish.
4/24/2002	00:00 - 02:30	2.50	BBHD		DRLPRO	L/D logging tools & overshot. Logging tool parted in the middel of the HRMS tool which left GSR source in hole.(Other tools in hole are 2-knuckle jts, HRLA, 2-knuckle jts, DTA, NGT tools. Total of 70' in hole.)
	02:30 - 06:00	3.50	WOE		DRLPRO	WO Equipment. Needed to look @ logging tools to make sure the fishing equipment we run is right tools.
	06:00 - 07:15	1.25	BBHD		DRLPRO	Made up BHA w / 7 3/8" guide shoe w / 4 1/2" grappel & 5" guide w / 3 1/2' extension of 7 3/8" w / 23 jt's of HWDP.
	07:15 - 09:15	2.00	TRIP		DRLPRO	TIH w / overshot & 15 stands of drill pipe.
	09:15 - 10:45	1.50	WOO		DRLPRO	Shut down going in hole. WO Orders
	10:45 - 12:15	1.50	TRIP		DRLPRO	POOH change in plans.
	12:15 - 18:00	5.75	WOE		DRLPRO	WO Equipment. Strapped & calipared tools.
	18:00 - 19:00	1.00	BBHD		DRLPRO	BHA/Bit Handling. Picked up wash pipe w / Tomsons shoe & set of fishing jars.
	19:00 - 20:00	1.00	TRIP		DRLPRO	TIH w / HWDP & 13 stands of D.P.
	20:00 - 21:00	1.00	SERT		DRLPRO	R/U cable for power swivel before we got into open hole.
	21:00 - 00:30	3.50	TRIP		DRLPRO	TIH 8534'. Tagged up on bridge.
	00:30 - 01:15	0.75	PULD		DRLPRO	POOH L/D 12 jt's & finish TIH w / D.P. out of derrick.
	01:15 - 06:00	4.75	WASHR		DRLPRO	Picked up kelly. Wash & ream f/ 8527' to 8883'. Pumping sweeps down hole would allow wash pipe t/ go down hole alot smoother. Had to ream a couple of spot down hole.

Operations Summary Report

Legal Well Name: INDIAN HILLS UNIT NO. 42

Common Well Name: INDIAN HILLS UNIT NO. 42

Event Name: ORIGINAL DRILLING

Contractor Name: MCVAY DRILLING

Rig Name: MCVAY DRILLING

Start: 4/1/2002

Rig Release:

Rig Number: 4

Spud Date: 4/3/2002

End:

Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
4/25/2002	06:00 - 07:00	1.00	SERT		DRLPRO	RU 3.5 power swivel.
	07:00 - 07:45	0.75	RRCO		DRLPRO	Repair Rig / Contractor mud line.
	07:45 - 09:00	1.25	WASHR		DRLPRO	Wash/Ream f/ 8866- 8896 w/ power swivel. From 8883-8896, hole was too tight for swivel to rotate pipe. After working pipe continuously, was able to rotate at a slow rate w/ 3400-3800 ft.lb.tq.
	09:00 - 12:30	3.50	CANDC		DRLPRO	Continue working pipe @ 8866-8896, mixing & pumping gel sweeps w/ LCM. Weatherford ordered S-200 power swivel w/ 12,000 ft. lb. tq. (4.5) @ appx. 9:30 AM.
	12:30 - 13:00	0.50	SERT		DRLPRO	RD 3.5 swivel & PU kelly.
	13:00 - 16:15	3.25	CANDC		DRLPRO	Circulate and Condition Hole . Waiting on bigger swivel. Mixing LCM to regain returns.
	16:15 - 17:15	1.00	RURD		DRLPRO	RU Power S-200 power swivel.
	17:15 - 20:30	3.25	WPIP		DRLPRO	Work Pipe. S-200 swivel still couldn't rotate pipe w/ 11000 ft lb.Tq . Swivel would torque out when tagging out on btm.
	20:30 - 22:00	1.50	RURD		DRLPRO	RD power swivel, L/D 2 jts & picked up kelly. Tagged up @ 8896'.
	22:00 - 05:45	7.75	WASHR		DRLPRO	Wash/Ream f/ 8894' t/ 8944' rotating @ 54 rpm w/ 4 point on shoe. Started washing over fish @ 8918'.
4/26/2002	05:45 - 06:00	0.25	CANDC		DRLPRO	Circulate & pump heavy pill on btm.
	06:00 - 11:00	5.00	TRIP		DRLPRO	TOH w/ 7-5/8" x 7-3/8" Drag Shoe worn slick & had splits due to expansion from going over fish that was larger than ID of shoe. Thompson finger catchers were all missing.
	11:00 - 13:00	2.00	BBHD		DRLPRO	L/D BHA. Discussed options on site & w/ Midland. Weld more wire rope inside 5' extension to go between shoe & washpipe. Weld wire rope in shoe above Thompson catcher.
	13:00 - 17:00	4.00	TRIP		DRLPRO	TIH w/ 7-5/8" x 7-3/8" Tex. pattern shoe w/ Thompson catcher, 5' extension w/ wire rope, 2 jts. of 7-3/8" washpipe, 7-3/8" extension, bushing w/ Thompson catcher & top bushing (WP assembly total 80.56), & jars on HWDP & 4-1/2" DP w/ normal drag. Hung up @ 8840'.
	17:00 - 18:15	1.25	WPIP		DRLPRO	Work stuck pipe @ 8840. Worked & jarred free @ 100K over string wt. of 175K.
	18:15 - 19:30	1.25	WPIP		DRLPRO	P/U kelly & work / jar plugged drillstring free. L/D 2 jts. of drillpipe & break circulation.
	19:30 - 21:00	1.50	WASHR		DRLPRO	Wash/Ream f/ 8802 t/ 8944 w/ no problems & fairly fast, going over TOF @ 8918 w/ no problem (Did not see TOF).
	21:00 - 01:00	4.00	WASHR		DRLPRO	Wash/Ream f/ 8944 t/ 8947 w/ increased torque & had to increase wt. on shoe t/ 12-15K to progress. Added Polyol HM to decrease torque w/ minimal visual results. Loosing appx. 60 BPH. Penetration stopped.
	01:00 - 01:30	0.50	CANDC		DRLPRO	Spot gel pill on bottom.
	01:30 - 05:30	4.00	TRIP		DRLPRO	TOH (chain out). Came out w/ top 12.74 of washpipe assembly, including top bushing, extension, & complete bushing w/ Thompson catcher intact. Washpipe parted in threads (pin pulled out of box), leaving 67.82 of washpipe (2 full jts, extension & shoe). * Left washpipe box looking up at 8879 w/ top of logging tool at 8918.
4/27/2002	05:30 - 06:00	0.50	BBHD		DRLPRO	BHA Handling. Visually inspect washpipe. Upper Thompson catchers were still in bushing. Box on bushing was swelled out & bottom pin at parting point was intact w/ minimal wear & did not appear to have been parted for a long period of time during washover operation.
	06:00 - 07:00	1.00	BBHD		DRLPRO	BHA Handling. Break & L/D BHA.
	07:00 - 10:00	3.00	WOO		DRLPRO	WO Orders. Held conference meeting via IBGP / Midland offices to discuss options. Decided to stop fishing, isolate radioactive logging tools w/ cement & proceed to run 7" csg. & complete well.
	10:00 - 12:00	2.00	SERT		DRLPRO	Service Tools (RURD, Repair, Etc). R/D & L/D 4.5 power swivel, clear floor & catwalk of fishing tools.

Marathon Oil Company
Operations Summary Report

Page 12 of 17

Legal Well Name: INDIAN HILLS UNIT NO. 42
Common Well Name: INDIAN HILLS UNIT NO. 42
Event Name: ORIGINAL DRILLING
Contractor Name: MCVAY DRILLING
Rig Name: MCVAY DRILLING

Start: 4/1/2002
Rig Release:
Rig Number: 4
Spud Date: 4/3/2002
End:
Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
4/27/2002	12:00 - 14:00	2.00	TRIP		DRLPRO	TIH 19, 6-1/2" DC'S & 2 jts. of HWDP from derrick. TOH L/D same to clear floor for more room & safer work area.
	14:00 - 17:30	3.50	TRIP		DRLPRO	TIH (SLM) w/ 8-3/4" bit, 6 jts. HWDP, fishing jars, & 17 HWDP on 4-1/2" DP
	17:30 - 18:30	1.00	RRCO		DRLPRO	Repair Rig, Contractor. Replace engine water pump.
	18:30 - 19:15	0.75	CANDC		DRLPRO	Fill up DP.
	19:15 - 21:15	2.00	TRIP		DRLPRO	TIH (SLM) w/ normal drag & stuck @ 8530.
	21:15 - 22:45	1.50	TRIP		DRLPRO	P/U kelly. Jar & pump back out to 8509 working pipe @ 95k over string wt. of 180k. SLM was 1' different than original tally.
	22:45 - 23:45	1.00	TRIP		DRLPRO	L/D 8 jts. of DP & TIH w/ 3 stds. f/ derrick.
4/28/2002	23:45 - 02:45	3.00	WASHR		DRLPRO	Wash/Ream f/ 8520 to top of washpipe fish @ 8879 w/ appx. 90% returns.
	02:45 - 04:15	1.50	CANDC		DRLPRO	Pump sweep & circ. out.
	04:15 - 06:00	1.75	TRIP		DRLPRO	Pump bottom 2 jts. out. TOH.
	06:00 - 08:45	2.75	TRIP		DRLPRO	TOH w/ 8-3/4" bit.
	08:45 - 14:30	5.75	TRIP		DRLPRO	P/U Muleshoe & 3 jts. of 2-7/8" AOH, XO, 9jts. HWDP, fishing jars, 14 jts. HWDP & TIH on 4-1/2" DP w/ normal drag. Tagged on top of washpipe fish @ 8879'.
	14:30 - 16:30	2.00	WPIP		DRLPRO	Work Pipe @ 8879 attempting to enter washpipe fish & set cement plug on top of logging tool @ 8918. P/U kelly & unplug drillstring (muleshoe plugged while TIH). Break circ. Failed attempts to enter washpipe w/ rotation, pumping & working up/down. OCD Rep. Phil Hawkins was on location during operations & he had no problem w/ cementing f/ top of washpipe (25' plug required). Made no progress past 8879. Held safety meeting & R/U HES. Set back kelly & P/U one jt. of D/P. Tag washpipe @ 8879 & work pipe w/ normal drag, setting pipe @ 8878 & tie-in HES line.
	16:30 - 17:00	0.50	COPS		DRLPRO	HES pumped 5 BBLs. of water ahead. Cemented w/ 60 sks. of Class "H", 0.75% CFR-3, 1% Red Dye mixed @ 17ppg @ 6 BPM, 320#.
	17:00 - 18:30	1.50	WPIP		DRLPRO	Displace w/ 117 BBLs.fresh water to spot @ 8 BPM, 127# final press. w/ no problems. Shut down @ 17:03PM.
	18:30 - 20:30	2.00	WOE		DRLPRO	Work pipe & jar, rapidly increasing pull & jarring wt. to 310,000 (string wt. 175k) w/ no movement. Attempt rotating w/ no movement. 310k was as high as McVay pusher allowed. Made no progress. Called out wireline truck @ 6:15.
	20:30 - 00:00	3.50	WLIN		DRLPRO	WO WL truck.
4/29/2002	00:00 - 02:45	2.75	TRIP		DRLPRO	Pre-job meeting. R/U Rotary W.L. Ran free point. Found pipe free @ 8610, stuck @ 8630. String Shot- Backoff @ 8600' W.L. depth.
	02:45 - 04:00	1.25	SCDL		DRLPRO	TOH slow/ chain out.
	04:00 - 04:30	0.50	TRIP		DRLPRO	Slip and Cut Drill Line
	04:30 - 05:30	1.00	SERT		DRLPRO	Finish TOH L/D fishing jars & shot jt. of HWDP. Left 7jts. HWDP, XO & 3 jts. 2-7/8" AOH in well.
	05:30 - 06:00	0.50	TRIP		DRLPRO	L/D & load out Weatherford fishing tools. P/U drilling jars.
	06:00 - 08:00	2.00	TRIP		DRLPRO	TIH 9 jts. HWDP, drilling jars, & 6 jts. HWDP on 4-1/2" DP
	08:00 - 09:30	1.50	WOE		DRLPRO	TIH open end to 8146 to set cement plugs in loss circ. zone @ 8250.
	09:30 - 10:00	0.50	COPS		DRLPRO	WO bulk cement (1-1/2 hr late/ ordered appx.1:30 AM) Circulate.
	10:00 - 10:30	0.50	TRIP		DRLPRO	Safety meeting. R/U HES. Pump 5 bbls. water ahead. Cement w/ 100 sks. "H", 5% gil., 1/4# flocele,10# cal seal, mixed @ 14.2#. Displaced w/ 109 bbls. fresh water. Reciprocate while cementing.
	10:30 - 15:30	5.00	WOC		DRLPRO	TOH 15 stds. to 6730'. * HES recommends 6 hr. WOC.
	15:30 - 16:15	0.75	TRIP		DRLPRO	WO Cement. Filled hole w/ water after 5 hrs. & monitored losses @ 180 bbls./ hr. Order bulk cement @ 3:20 cst.
					DRLPRO	TIH to 8146 / no cement. Pump DP capacity & R/U f/ cement.

Marathon Oil Company
Operations Summary Report

Page 13 of 17

Legal Well Name: INDIAN HILLS UNIT NO. 42
Common Well Name: INDIAN HILLS UNIT NO. 42
Event Name: ORIGINAL DRILLING
Contractor Name: MCVAY DRILLING
Rig Name: MCVAY DRILLING

Start: 4/1/2002
Rig Release:
Rig Number: 4
Spud Date: 4/3/2002
End:
Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
4/29/2002	16:15 - 19:15	3.00	WOC		DRLPRO	WO bulk cement / ordered @ 3:20 cst. Held pre-job meeting.
	19:15 - 20:15	1.00	COPS		DRLPRO	Pump 5 bbls. water ahead. Cement w/ 100 sks. "H", 10# cal seal, 5% gil., 1/4# flocele, mixed @ 14.2#. Displaced to spot w/ 109 bbls. of fresh water. Reciprocated pipe.
	20:15 - 23:15	3.00	TRIP		DRLPRO	TOH
	23:15 - 02:45	3.50	PLOT		DRLPRO	Pressure Test all BOP's & equipment to 250# / 3000#. Test annular to 250 / 1500#. Retrieve test plug.
	02:45 - 03:15	0.50	PLOT		DRLPRO	Fill csg. w/ water & R/D BOP tester. Still loosing fluid. Order bulk cement.
4/30/2002	03:15 - 06:00	2.75	TRIP		DRLPRO	TIH to 8146 w/ no cement. Check losses @ 10 bbl/hr. @ 06:40.
	06:00 - 08:00	2.00	WOC		DRLPRO	WO Bulk Cement. Check fluid loss @ 10 bbl./hr. Circulating & working pipe. Ordered cement @ appx. 03:30. Held pre job meeting. R/U HES w/ mud out of balance. Hook back up to rig pump.
	08:00 - 09:00	1.00	CANDC		DRLPRO	Circulate BU w/ returns full of contaminated cement. Had cement in returns for appx. 30 minutes.
	09:00 - 09:30	0.50	COPS		DRLPRO	Cement w/ 100 sks. "H", 10# cal seal, 5% gil., 1/4# flocele mixed @ 14.2#. Displace w/ 104.5 bbls. of system water.
	09:30 - 10:00	0.50	TRIP		DRLPRO	TOH 15 stds. w/ 1st 4 stds. wet.
	10:00 - 15:15	5.25	WOC		DRLPRO	WO Cement circulating well. Check losses @ 7 bbl/hr @ 12:00 & 13:00. Finish mixing LCM pill.
	15:15 - 16:00	0.75	TRIP		DRLPRO	TIH & tag soft cement @ 7815. Pull up to 7765.
	16:00 - 18:00	2.00	CANDC		DRLPRO	Circulate bottoms-up, circ. out contaminated cement. Pulled rotating rubber & check fluid loss-losing 1.5 bbls./hr. Spot 90 bbl. LCM pill from 7765-6700. Called out kick-off cement @ 17:35.
	18:00 - 18:45	0.75	CANDC		DRLPRO	TOH to 6503 to set kick-off plug.
	18:45 - 21:15	2.50	WOC		DRLPRO	WO Bulk Cement
	21:15 - 22:00	0.75	COPS		DRLPRO	Pre-job meeting. Pump 10 bbls. of fresh water ahead. Cement w/ 150 sks. Premium, .75% CFR-3 mixed @ 17.4#. Displace w/ 81 bbls. of water.
	22:00 - 23:00	1.00	CANDC		DRLPRO	Pull DP to 6251. Circulate bottoms-up recovering appx. 12 bbls. w/ cement. Circulate clean.
	23:00 - 23:45	0.75	COPS		DRLPRO	Pump 10 bbls. of fresh water ahead. Cement w/ 150 sks. Premium, .75% CFR-3 mixed @ 17.4#. Displace w/ 78.5 bbls. of fresh water.
	23:45 - 00:15	0.50	TRIP		DRLPRO	TOH w/ 15 stds. to 4833.
	00:15 - 05:45	5.50	WOC		DRLPRO	WO Cement circulating / working pipe. Setting DC's / BHA on pipe racks.
5/1/2002	05:45 - 06:00	0.25	TRIP		DRLPRO	TIH & tag cement @ 5945 @ 06:25
	06:00 - 06:30	0.50	TRIP		DRLPRO	TIH & tag cement @ 5945 w/ DP. Top still soft.
	06:30 - 07:30	1.00	TRIP		DRLPRO	Circulate. Move drill pipe around in derrick (different wts., grades, & preferences) to prepare to L/D 38 excess stds. of DP from derrick. Pipe leftover from fishing / cementing.
	07:30 - 10:00	2.50	TRIP		DRLPRO	TOH standing back to HWDP. TIH w/ excess pipe in derrick.
	10:00 - 12:15	2.25	PULD		DRLPRO	R/U l/d truck & held pre-job meeting. TOH L/D excess DP.
	12:15 - 14:15	2.00	TRIP		DRLPRO	TOH-Trip check HWDP & Jars - All OK.
	14:15 - 15:45	1.50	BBHD		DRLPRO	BHA/Bit Handling. P/U bit, shock sub, 18-61/2" DC's, jars, & 10 new HWDP.
	15:45 - 16:15	0.50	SERT		DRLPRO	R/D laydown truck.
	16:15 - 18:45	2.50	TRIP		DRLPRO	TIH-SLM & tag cement @ 5935. P/U kelly & break circulation.
	18:45 - 01:45	7.00	DCP		DRLPRO	Drill Cement from 5935 to 6167 to attempt kick-off at dog leg beginning at 6170. Drilled cement w/ 54 RPM's @ 30-34 ft/hr w/ 20k.
	01:45 - 02:30	0.75	CANDC		DRLPRO	Pump sweep & circulate out same.
	02:30 - 05:00	2.50	TRIP		DRLPRO	TOH l/d bit & shock sub.
	05:00 - 06:00	1.00	BBHD		DRLPRO	P/U directional BHA.

Marathon Oil Company

Operations Summary Report

Page 14 of 17

Legal Well Name: INDIAN HILLS UNIT NO. 42
 Common Well Name: INDIAN HILLS UNIT NO. 42
 Event Name: ORIGINAL DRILLING
 Contractor Name: MCVAY DRILLING
 Rig Name: MCVAY DRILLING

Spud Date: 4/3/2002
 End:
 Group:

Start: 4/1/2002
 Rig Release:
 Rig Number: 4

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
5/2/2002	06:00 - 09:45	3.75	TRIP		DRLPRO	TIH w/ bit #9 & 1.8 degree motor
	09:45 - 10:00	0.25	WASHR		DRLPRO	P/U kelly & Wash 22' t/ btm. No fill.
	10:00 - 11:00	1.00	SURV		DRLPRO	Survey & Orienting Operations
	11:00 - 06:00	19.00	DTD		DRLPRO	Drill (Time Drill) 20% limestone & 80% cement. Motor turning @ 111 RPM. Started getting shows of formation @ around 6180'.
5/3/2002	06:00 - 12:45	6.75	DTD		DRLPRO	Drill (Time Drill)
	12:45 - 15:45	3.00	TRIP		DRLPRO	POOH to redail motor
	15:45 - 16:15	0.50	BBHD		DRLPRO	Redail motor to 1.3 degree & added 7 7/8" IB stabilizer to top of motor.
	16:15 - 19:45	3.50	TRIP		DRLPRO	TIH w/ same bit, motor, added IBS & thruster to drill string.
	19:45 - 20:00	0.25	CANDC		DRLPRO	P/U kelly & broke cir.
	20:00 - 20:15	0.25	WASHR		DRLPRO	Wash to btm 40'. No fill.
	20:15 - 20:30	0.25	DOHS		DRLPRO	Drill Open Hole (Slide)
	20:30 - 22:30	2.00	DOHR		DRLPRO	Drill Open Hole (Rotary)
	22:30 - 23:00	0.50	WASHR		DRLPRO	L/D 1 jt & Reamed. f/ 6167' to 6231'.
	23:00 - 23:15	0.25	CONN		DRLPRO	Connection / Orient
	23:15 - 23:30	0.25	DOHS		DRLPRO	Drill Open Hole (Slide)
	23:30 - 00:30	1.00	DOHR		DRLPRO	Drill Open Hole (Rotary)
	00:30 - 00:45	0.25	CONN		DRLPRO	Connection / Survey
	00:45 - 01:00	0.25	DOHS		DRLPRO	Drill Open Hole (Slide)
	01:00 - 02:00	1.00	DOHR		DRLPRO	Drill Open Hole (Rotary)
	02:00 - 02:15	0.25	CONN		DRLPRO	Connection / Survey
	02:15 - 03:00	0.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	03:00 - 03:15	0.25	CONN		DRLPRO	Connection / Survey
	03:15 - 04:15	1.00	DOHR		DRLPRO	Drill Open Hole (Rotary)
	04:15 - 04:30	0.25	CONN		DRLPRO	Connection / Survey
	04:30 - 05:00	0.50	DOHS		DRLPRO	Drill Open Hole (Slide)
	05:00 - 06:00	1.00	DOHR		DRLPRO	Drill Open Hole (Rotary)
5/4/2002	06:00 - 06:15	0.25	DOHS		DRLPRO	Drill Open Hole (Slide)
	06:15 - 07:45	1.50	DOHR		DRLPRO	Drill Open Hole (Rotary)
	07:45 - 08:00	0.25	CONN		DRLPRO	Connection / Survey
	08:00 - 08:30	0.50	DOHS		DRLPRO	Drill Open Hole (Slide)
	08:30 - 10:00	1.50	DOHR		DRLPRO	Drill Open Hole (Rotary)
	10:00 - 10:15	0.25	CONN		DRLPRO	Connection / Survey. BOP drill.
	10:15 - 10:45	0.50	DOHS		DRLPRO	Drill Open Hole (Slide)
	10:45 - 11:30	0.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	11:30 - 11:45	0.25	CONN		DRLPRO	Connection / Survey
	11:45 - 12:15	0.50	DOHS		DRLPRO	Drill Open Hole (Slide)
	12:15 - 12:45	0.50	DOHR		DRLPRO	Drill Open Hole (Rotary)
	12:45 - 13:00	0.25	CONN		DRLPRO	Connection / Survey
	13:00 - 13:30	0.50	DOHS		DRLPRO	Drill Open Hole (Slide)
	13:30 - 14:00	0.50	DOHR		DRLPRO	Drill Open Hole (Rotary)
	14:00 - 14:15	0.25	CONN		DRLPRO	Connection / Survey
	14:15 - 14:45	0.50	DOHS		DRLPRO	Drill Open Hole (Slide)
	14:45 - 15:30	0.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	15:30 - 15:45	0.25	CONN		DRLPRO	Connection / Survey
	15:45 - 16:30	0.75	DOHS		DRLPRO	Drill Open Hole (Slide)
	16:30 - 17:00	0.50	DOHR		DRLPRO	Drill Open Hole (Rotary)
	17:00 - 17:15	0.25	CONN		DRLPRO	Connection / Survey
	17:15 - 18:00	0.75	DOHS		DRLPRO	Drill Open Hole (Slide)
	18:00 - 18:30	0.50	DOHR		DRLPRO	Drill Open Hole (Rotary)
	18:30 - 18:45	0.25	CONN		DRLPRO	Connection / Survey
	18:45 - 19:15	0.50	DOHS		DRLPRO	Drill Open Hole (Slide)
	19:15 - 20:00	0.75	DOHR		DRLPRO	Drill Open Hole (Rotary)

Marathon Oil Company

Operations Summary Report

Page 15 of 17

Legal Well Name: INDIAN HILLS UNIT NO. 42
 Common Well Name: INDIAN HILLS UNIT NO. 42
 Event Name: ORIGINAL DRILLING
 Contractor Name: MCVAY DRILLING
 Rig Name: MCVAY DRILLING

Spud Date: 4/3/2002
 End:
 Group:
 Start: 4/1/2002
 Rig Release:
 Rig Number: 4

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
5/4/2002	20:00 - 20:15	0.25	CONN		DRLPRO	Connection / Survey. BOP drill.
	20:15 - 20:30	0.25	DOHS		DRLPRO	Drill Open Hole (Slide)
	20:30 - 21:15	0.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	21:15 - 21:30	0.25	CONN		DRLPRO	Connection / Survey
	21:30 - 21:45	0.25	DOHS		DRLPRO	Drill Open Hole (Slide)
	21:45 - 22:30	0.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	22:30 - 22:45	0.25	CONN		DRLPRO	Connection / Survey
	22:45 - 23:15	0.50	DOHS		DRLPRO	Drill Open Hole (Slide)
	23:15 - 23:45	0.50	DOHR		DRLPRO	Drill Open Hole (Rotary)
	23:45 - 00:00	0.25	CONN		DRLPRO	Connection / Survey
	00:00 - 00:15	0.25	DOHS		DRLPRO	Drill Open Hole (Slide)
	00:15 - 01:00	0.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	01:00 - 01:15	0.25	CONN		DRLPRO	Connection / Survey. BOP drill.
	01:15 - 01:30	0.25	DOHS		DRLPRO	Drill Open Hole (Slide)
	01:30 - 02:00	0.50	DOHR		DRLPRO	Drill Open Hole (Rotary)
	02:00 - 02:15	0.25	CONN		DRLPRO	Connection / Survey
	02:15 - 02:45	0.50	DOHS		DRLPRO	Drill Open Hole (Slide)
	02:45 - 03:15	0.50	DOHR		DRLPRO	Drill Open Hole (Rotary)
	03:15 - 03:30	0.25	CONN		DRLPRO	Connection / Survey
	03:30 - 04:30	1.00	DOHR		DRLPRO	Drill Open Hole (Rotary)
	04:30 - 04:45	0.25	CONN		DRLPRO	Connection / Survey
	04:45 - 06:00	1.25	DOHR		DRLPRO	Drill Open Hole (Rotary)
5/5/2002	06:00 - 06:30	0.50	DOHR		DRLPRO	Drill Open Hole (Rotary)
	06:30 - 07:00	0.50	CANDC		DRLPRO	Circulate and Survey.
	07:00 - 10:15	3.25	TRIP		DRLPRO	TOOH t/ change out motor & bit.
	10:15 - 11:15	1.00	BBHD		DRLPRO	Changed out motor & bit. Tested motor O.K.
	11:15 - 14:45	3.50	TRIP		DRLPRO	TIH w/ new motor & bit.
	14:45 - 15:00	0.25	WASHR		DRLPRO	Wash 40' to btm. No fill.
	15:00 - 15:15	0.25	DOHR		DRLPRO	Drill Open Hole (Rotary)
	15:15 - 15:30	0.25	CONN		DRLPRO	Connection / Survey
	15:30 - 16:30	1.00	DOHR		DRLPRO	Drill Open Hole (Rotary)
	16:30 - 16:45	0.25	CONN		DRLPRO	Connection / Survey
	16:45 - 17:15	0.50	DOHS		DRLPRO	Drill Open Hole (Slide)
	17:15 - 18:00	0.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	18:00 - 18:15	0.25	CONN		DRLPRO	Connection / Survey
	18:15 - 19:30	1.25	DOHR		DRLPRO	Drill Open Hole (Rotary)
	19:30 - 19:45	0.25	CONN		DRLPRO	Connection / Survey
	19:45 - 20:45	1.00	DOHR		DRLPRO	Drill Open Hole (Rotary)
	20:45 - 21:00	0.25	CONN		DRLPRO	Connection / Survey
	21:00 - 23:00	2.00	DOHR		DRLPRO	Drill Open Hole (Rotary)
	23:00 - 23:15	0.25	CONN		DRLPRO	Connection / Survey
	23:15 - 01:30	2.25	DOHR		DRLPRO	Drill Open Hole (Rotary)
	01:30 - 01:45	0.25	CONN		DRLPRO	Connection / Survey
	01:45 - 04:00	2.25	DOHR		DRLPRO	Drill Open Hole (Rotary)
	04:00 - 04:15	0.25	CONN		DRLPRO	Connection / Survey
	04:15 - 06:00	1.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
5/6/2002	06:00 - 07:00	1.00	DOHR		DRLPRO	Drill Open Hole (Rotary)
	07:00 - 07:15	0.25	CONN		DRLPRO	Connection / Survey
	07:15 - 07:30	0.25	DOHS		DRLPRO	Drill Open Hole (Slide)
	07:30 - 08:15	0.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	08:15 - 08:30	0.25	CONN		DRLPRO	Connection / Survey. BOP drill
	08:30 - 09:30	1.00	DOHR		DRLPRO	Drill Open Hole (Rotary)
	09:30 - 09:45	0.25	CONN		DRLPRO	Connection / Survey

Operations Summary Report

Legal Well Name: INDIAN HILLS UNIT NO. 42

Common Well Name: INDIAN HILLS UNIT NO. 42

Event Name: ORIGINAL DRILLING

Contractor Name: MCVAY DRILLING

Rig Name: MCVAY DRILLING

Start: 4/1/2002

Rig Release:

Rig Number: 4

Spud Date: 4/3/2002

End:

Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
5/6/2002	09:45 - 10:15	0.50	DOHS		DRLPRO	Drill Open Hole (Slide)
	10:15 - 11:00	0.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	11:00 - 11:15	0.25	CONN		DRLPRO	Connection / Survey
	11:15 - 11:45	0.50	DOHS		DRLPRO	Drill Open Hole (Slide)
	11:45 - 12:15	0.50	DOHR		DRLPRO	Drill Open Hole (Rotary)
	12:15 - 12:30	0.25	CONN		DRLPRO	Connection / Survey
	12:30 - 13:00	0.50	DOHS		DRLPRO	Drill Open Hole (Slide)
	13:00 - 14:00	1.00	DOHR		DRLPRO	Drill Open Hole (Rotary)
	14:00 - 14:15	0.25	CONN		DRLPRO	Connection / Survey
	14:15 - 14:45	0.50	DOHS		DRLPRO	Drill Open Hole (Slide)
	14:45 - 15:45	1.00	DOHR		DRLPRO	Drill Open Hole (Rotary)
	15:45 - 16:00	0.25	CONN		DRLPRO	Connection / Survey. BOP drill.
	16:00 - 16:30	0.50	DOHS		DRLPRO	Drill Open Hole (Slide)
	16:30 - 17:15	0.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	17:15 - 17:30	0.25	CONN		DRLPRO	Connection / Survey
	17:30 - 18:00	0.50	DOHS		DRLPRO	Drill Open Hole (Slide)
	18:00 - 18:45	0.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	18:45 - 19:00	0.25	CONN		DRLPRO	Connection / Survey
	19:00 - 19:30	0.50	DOHS		DRLPRO	Drill Open Hole (Slide)
	19:30 - 20:15	0.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	20:15 - 20:30	0.25	CONN		DRLPRO	Connection / Survey
	20:30 - 21:00	0.50	DOHS		DRLPRO	Drill Open Hole (Slide)
	21:00 - 21:30	0.50	DOHR		DRLPRO	Drill Open Hole (Rotary)
	21:30 - 21:45	0.25	CONN		DRLPRO	Connection / Survey
	21:45 - 22:15	0.50	DOHS		DRLPRO	Drill Open Hole (Slide)
	22:15 - 22:45	0.50	DOHR		DRLPRO	Drill Open Hole (Rotary)
	22:45 - 23:00	0.25	CONN		DRLPRO	Connection / Survey
	23:00 - 23:30	0.50	DOHS		DRLPRO	Drill Open Hole (Slide)
	23:30 - 00:15	0.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	00:15 - 00:30	0.25	CONN		DRLPRO	Connection / Survey. BOP drill
	00:30 - 01:15	0.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	01:15 - 01:30	0.25	CONN		DRLPRO	Connection / Survey
	01:30 - 02:30	1.00	DOHR		DRLPRO	Drill Open Hole (Rotary)
	02:30 - 02:45	0.25	CONN		DRLPRO	Connection / Survey
	02:45 - 04:00	1.25	DOHR		DRLPRO	Drill Open Hole (Rotary)
	04:00 - 04:15	0.25	CONN		DRLPRO	Connection / Survey
	04:15 - 05:15	1.00	DOHR		DRLPRO	Drill Open Hole (Rotary)
	05:15 - 05:30	0.25	CONN		DRLPRO	Connection / Survey
	05:30 - 06:00	0.50	DOHR		DRLPRO	Drill Open Hole (Rotary)
5/7/2002	06:00 - 07:30	1.50	DOHR		DRLPRO	Drill Open Hole (Rotary)
	07:30 - 07:45	0.25	CONN		DRLPRO	Connection / Survey
	07:45 - 08:15	0.50	DOHS		DRLPRO	Drill Open Hole (Slide)
	08:15 - 10:00	1.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	10:00 - 10:15	0.25	CONN		DRLPRO	Connection / Survey
	10:15 - 11:45	1.50	DOHR		DRLPRO	Drill Open Hole (Rotary)
	11:45 - 12:00	0.25	CONN		DRLPRO	Connection / Survey. BOP drill.
	12:00 - 12:45	0.75	DOHS		DRLPRO	Drill Open Hole (Slide)
	12:45 - 13:30	0.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	13:30 - 17:00	3.50	TRIP		DRLPRO	POOH L/D top RT tool & moving btm RT tool up hole.
	17:00 - 17:45	0.75	SCDL		DRLPRO	Slip and Cut Drill Line
	17:45 - 20:30	2.75	TRIP		DRLPRO	TIH w/ DP. R.T. tool 5 stands above HWDP.
	20:30 - 21:00	0.50	WASHR		DRLPRO	Installed rotating rubber, wash 22' to btm. 2' fill.
	21:00 - 22:30	1.50	DOHR		DRLPRO	Drill Open Hole (Rotary). Drill w/ #1 pump. Changed out pump swab on

Operations Summary Report

Legal Well Name: INDIAN HILLS UNIT NO. 42

Common Well Name: INDIAN HILLS UNIT NO. 42

Event Name: ORIGINAL DRILLING

Contractor Name: MCVAY DRILLING

Rig Name: MCVAY DRILLING

Start: 4/1/2002

Rig Release:

Rig Number: 4

Spud Date: 4/3/2002

End:

Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
5/7/2002	21:00 - 22:30	1.50	DOHR		DRLPRO	# 2.
	22:30 - 22:45	0.25	CONN		DRLPRO	Connection / Survey. BOP drill.
	22:45 - 23:30	0.75	DOHS		DRLPRO	Drill Open Hole (Slide)
	23:30 - 01:15	1.75	DOHR		DRLPRO	Drill Open Hole (Rotary)
	01:15 - 01:30	0.25	CONN		DRLPRO	Connection / Survey
	01:30 - 03:00	1.50	DOHR		DRLPRO	Drill Open Hole (Rotary). Lost returns @ 8239'. Pumped 20 bbl LCM sweeps while drilling.
	03:00 - 03:45	0.75	CONN		DRLPRO	Connection. Couldn't get down past 8236' by washing down. Set jt back in mouse hole. Rereamed f/ 8234' to 8281'.
	03:45 - 05:30	1.75	DOHR		DRLPRO	Drill Open Hole (Rotary). Pump 20 BBL LCM sweep while drilling.
	05:30 - 05:45	0.25	CONN		DRLPRO	Connection. No survey & no pump pressure.
	05:45 - 06:00	0.25	DOHR		DRLPRO	Drill Open Hole (Rotary). Pump 40 bbl LCM sweep while drilling. Still no pump pressure.
5/8/2002	06:00 - 02:15	20.25	DOHR		DRLPRO	Drill Open Hole (Rotary) .Dry drill. Took no surveys. Had no pump pressure while drilling f/ lost returns 8239' to 8935' T.D. Pumped heavy vis sweeps w/ LCM to try to regain pump pressure no good.
	02:15 - 03:00	0.75	CANDC		DRLPRO	Pumped 25 bbl sweep up into lost cir. zone to clean out well bore.
	03:00 - 04:30	1.50	TRIP		DRLPRO	Short trip pipe up 10 stands. & checked crown-o-matic. O.K.
	04:30 - 05:00	0.50	WASHR		DRLPRO	Installed rubber & wash 38' to btm. 14' fill.
	05:00 - 06:00	1.00	CANDC		DRLPRO	Pump 25 bbl sweep. Pump up hole. Spot heavy pill on btm.

Operations Summary Report

Legal Well Name: INDIAN HILLS UNIT NO. 42

Common Well Name: INDIAN HILLS UNIT NO. 42

Event Name: ORIGINAL COMPLETION

Contractor Name: MCVAY DRILLING

Rig Name: MCVAY DRILLING

Start: 4/1/2002

Rig Release:

Rig Number: 4

Spud Date: 4/3/2002

End:

Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
5/9/2002	06:00 - 12:30	6.50	LDDP		CSGPR	Lay down DP
	12:30 - 13:15	0.75	LDDP		CSGPR	Lay down DP. Break kelly & pull rotating rubber.
	13:15 - 14:45	1.50	BBHD		CSGPR	BHA/ Bit Handling. L/D BHA; 18-DC's, jars, motor & bit.
	14:45 - 16:00	1.25	RURDEQ		CSGPR	Install 7" rams. Held safety meeting. R/U csg. crew.
	16:00 - 00:30	8.50	RSCL		CSGPR	Run 7" 26# & 23#, K55, LT&C csg. in high winds & rough running conditions due to downward drag & sudden release while running. Had to run slow & fill-up several times due to hole conditions. Tagged solid @ 8860.
	00:30 - 02:15	1.75	RSCL		CSGPR	Wash last two jts. down from 8845 to TD 8935 w/ no returns. Well was on a screaming vacuum each time pump was shut down. R/D csg. crew.
5/10/2002	02:15 - 03:15	1.00	CANDC		CSGPR	Circulate & held safety meeting w/ HES.
	03:15 - 06:00	2.75	COPS		CSGPR	R/U HES & test lines to 5000#. Pump water spacer & 50,000 SCF N2 ahead. Cement w/ 300 sks. Premium Acid Soluble Cement, 1300 sks. Premium w/ 170,000 SCF N2, & 120 sks. of Super "H". Used a total of 220,000 SCF of N2 downhole + 20,000 SCF on cool down. Drop plug & start displacement w/ no returns.
	-					Safety Meetings: Cementing with N2. ND BOP's. Driving to and from work.
	06:00 - 06:30	0.50	COPS		CSGPR	Displace cement w/ 345 bbls. of fresh water beginning @ 8 bpm, 20#. Displaced last 325 bbls. @ 4 bpm w/ final & max. pressure of 90#. Bumped plug to 710# @ 0628 CST. Float held. Circulated no cement or N2 to surface. Only had a moderate blow of natural gas while cementing.
	06:30 - 14:00	7.50	WOC		CSGPR	WO Cement w/ well shut in, per HES recommendations.
	14:00 - 15:15	1.25	BHPD		CSGPR	Open well w/ 0-PSI on csg. & blow down 7" 9-5/8" annulus w/ 80% LEL / 100+ PPM H2S. Attempt to load annulus w/ fresh water @ 6 BPM. Pumped 410 bbls. @ 6 BPM w/ well on strong vacuum @ 0-PSI. (Theoretical volume of 8-3/4" hole = 226 bbls. @ 8239' / loss cir. depth)
5/11/2002	15:15 - 18:30	3.25	WOC		CSGPR	Discuss options & WO Bulk Cement. Midland & HES discussing options. Decided to set csg slips / packoff prior to cementing 7" / 9-5/8" annulus.
	18:30 - 20:30	2.00	NDNUW		CSGPR	Check 9-5/8" annulus w/ no gas. N/D BOP. Set all / 198,000 csg. wt. on csg. slips & energized packoff. NU BOP. Closed 7" pipe rams above csg. spool / packoff.
	20:30 - 06:00	9.50	WOC		CSGPR	WO HES Bulk Cement & equipment & set-up same. Offload bulk cement from transports into main bin & move in N2.
	-					Safety Meetings: Cementing with N2. L/D swivel & kelly. Rigging down rig & equipment.
	06:00 - 07:45	1.75	WOE		OTHER	WO HES to set up cementing / N2 equipment. Held pre-job meeting.
	07:45 - 09:30	1.75	COPS		OTHER	Test lines. Pump 20 bbls. of fresh water ahead @ 3 bpm, 60# down 7" x 9-5/8" annulus. Cemented w/ 300 sks. Premium mixed @ 15#, 2# / sk. cal seal 100# / sk. calcium carbonate, 1.5% zonesseal 2000 & N2 @ 1500 SCFM. Used 60,000 SCF N2. Cemented @ 3 bpm, 830# csg. press. Displace w/ 47 bbls. of fresh water w/ press. dropping gradually to 0#. Allow 13 more bbls. to gravity in @ 1 bpm. Shut in well on vacuum.
5/11/2002	09:30 - 13:30	4.00	WOC		OTHER	WO Cement
	13:30 - 15:00	1.50	BHPD		OTHER	HES pumped 400 bbls. of fresh water in attempt to load hole @ 6 bpm, 120#. Shut down on vacuum.
	15:00 - 16:00	1.00	COPS		OTHER	Pumped same cement & N2 as above, 300 sks. mixed @ 15#, using 70,500 SCF of N2. Pumped cement @ 3 bpm w/ 1000# csg. press. Displaced w/ 30 bbls. of fresh water @ final rate 3 bpm, 120#. Shut

Marathon Oil Company
Operations Summary Report

Page 2 of 2

Legal Well Name: INDIAN HILLS UNIT NO. 42
Common Well Name: INDIAN HILLS UNIT NO. 42
Event Name: ORIGINAL COMPLETION
Contractor Name: MCVAY DRILLING
Rig Name: MCVAY DRILLING

Start: 4/1/2002
Rig Release:
Rig Number: 4

Spud Date: 4/3/2002
End:
Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
5/11/2002	15:00 - 16:00	1.00	COPS		OTHER	down on vacuum of 1 bpm / gravity. Shut well in w/ 34 bbls. of displacement in, w/ well on vacuum. Used a total of 190,500 SCF of N2 today.
	16:00 - 21:00	5.00	NDNUW		OTHER	ND BOP's. Safe Work Permit. Rough cut 7" csg. w/ csg. slips & primary seal already set w/ all csg. wt./ 198,000 on slips. L/D cutoff. ND & dismantle complete rental BOP stack. Made final cut on 7" csg. Install new 11", 3M X 11", 3M WoodGroup C-22, Tbg. Spool w/ 7" secondary csg. seal & 3-1/16", 3M Gate Valves. Test 7" csg. seals to 3000# (ok). Install 11", 3M Cap w/ 3" Gate Valve. Released rig @ 21:00 CST. * WoodGroup did not have cost for wellhead. Used costs from IHU 39 + additional for cap & valve.

Casing Report

Legal Well Name: INDIAN HILLS UNIT NO. 42
 Common Well Name: INDIAN HILLS UNIT NO. 42
 Event Name: ORIGINAL DRILLING

Report #: 1
 Start: 4/1/2002

Spud Date: 4/3/2002
 Report Date: 4/6/2002
 End:

General Information

String Type: SURFACE CASING	Permanent Datum:	KELLY BUSHING	Hole Size:	Hole TMD:	1,818.0 (ft)
Hole TVD: 1,818.0 (ft)	KB-Datum:	0.00 (ft)	Water TMD:	Str. Wt. on Slips:	(lb)
Ground Level: 4,205.00 (ft)	CF Elevation:	(ft)	Liner Overlap:	Max Hole Angle:	(°)
Circ Hours: 0.30 (hr)	Mud Lost:	(bb)	KB to Cutoff:	Days From Spud:	3 (days)

Casing Flange / Wellhead

Manufacturer: Woods Group
 Hanger Model: Model: IC C-22
 Packoff Model:

Top Hub/Flange: (in) / (psi)
 BTM Hub/Flange: (in) / (psi)

Actual TMD Set: 1,819,280 (ft)

Integral Casing Detail

Item	Size (in)	Weight (lb/ft)	Grade	Drift (in)	Threads	JTS	Length (ft)	Top (ft)	MU Torq. (ft-lbf)	THD	Manufacturer	Model	Cond.	Max OD (in)	Min ID (in)	Comp. Name
CASING JOINT(S)	9.625	36.00	J-55	8.765	8 ROUND	40	1,771.990	1,771.99						10.625	8.921	
CASING FLOAT COLLA	9.625	36.00					1,200									
CASING JOINT(S)	9.625	36.00	J-55	8.765	8 ROUND	1	44.640	1,773.19						10.625	8.921	
CASING FLOAT SHOE	9.625	36.00					1,450	1,817.83								

Non-Integral Casing Accessories

Accessory	Manufacturer	Number	Spacing (ft)	Interval	How Fixed
CENTRALIZER	Weatherford	9	120.0	Top (ft) Bottom (ft)	

Marathon Oil Company

Cementing Report

Page 1 of 2

Legal Well Name: INDIAN HILLS UNIT NO. 42	Report #: 1	Spud Date: 4/3/2002
Common Well Name: INDIAN HILLS UNIT NO. 42	Start: 4/1/2002	Report Date: 4/6/2002
Event Name: ORIGINAL DRILLING		End:

Cement Job Type: Primary

Primary	Squeeze Open Hole	Squeeze Casing	Plug
Hole Size: 12.250 (in)	Hole Size:	Hole Size:	Hole Size:
TMD Set: 1,818.0 (ft)	SQ TMD: (ft)	TMD Set:	Top Set: (ft)
Date Set: 4/5/2002	SQ Date:	Date Set:	BTM set: (ft)
Csg Type: SURFACE CASING	SQ Type:	Csg Type:	Plug Date:
Csg Size: 9.625 (in)		SQ TMD:	Plug Type:
		SQ Date:	Drilled Out:
Cmtd. Csg: SURFACE CASING	Cmtd. Csg:	Cmtd. Csg:	Cmtd. Csg:

Cement Co: HALLIBURTON	Cementer:	Pipe Movement: NO MOVEMENT
------------------------	-----------	----------------------------

Pipe Movement

Rot Time Start: :	Time End: :	RPM:	Init Torque: (ft-lbf)	Avg Torque: (ft-lbf)	Max Torque: (ft-lbf)
Rec Time Start: :	Time End: :	SPM:	Stroke Length: (ft)	Drag Up: (lb)	Drag Down: (lb)

Stage No: 1 of 1

Type: PRIM CMT 1ST STAGE	Start Mix Cmt: 08:00	Disp Avg Rate: 6.00 (bbl/min)	Returns: 0
Volume Excess %: 200.00	Start Slurry Displ: :	Disp Max Rate: 6.00 (bbl/min)	Total Mud Lost: (bbl)
Meas. From: Surface	Start Displ: :	Bump Plug: Y	Cmt Vol to Surf: (bbl)
Time Circ Prior	End Pumping: :	Press Prior: 600 (psi)	
To Cementing:	End Pump Date:	Press Bumped: 700 (psi)	Ann Flow After: N
Mud Circ Rate: (gpm)	Top Plug: N	Press Held: 5 (min)	Mixing Method:
Mud Circ Press: (psi)	Bottom Plug: N	Float Held: Y	Density Meas By:

Mud Data

Type: FRESH WATER	Density: 8.4 (ppg)	Visc: 28 (s/qt)	PV/YP: (cp)/ (lb/100ft ²)	Gels 10 sec: (lb/100ft ²)	Gels 10 min: (lb/100ft ²)
Bottom Hole Circulating Temperature: 75 (°F)			Bottom Hole Static Temperature: (°F)		
Displacement Fluid Type: FRESH WATER		Density: 8.4 (ppg)	Volume: 137.00 (bbl)		

Stage No: 1 Slurry No: 1 of 2

Slurry Data

Fluid Type: SPACER	Description: FOAM	Class: OTHER	Purpose: FILLER CEM
Slurry Interval: 1,800.00 (ft) To: ()	Cmt Vol: 700 (sk)	Density: 14.8 (ppg)	Yield: 1.34 (ft ³ /sk)
Water Source: Frac-tank	Slurry Vol: 20.0 (bbl)	Water Vol: 6.3 (bbl)	Other Vol: ()
			Mix Water: 6.30 (gal/sk)
			Foam Job: Y

Test Data

	Time	Temp	Pressure
Thickening Time:	Temperature: (°F)	Compressive Strength 1: (°F)	(psi)
Free Water: (%)	Temperature: (°F)	Compressive Strength 2: (°F)	(psi)
Fluid Loss: (cc)	Temperature: (°F)		
Fluid Loss Pressure: (°F)			

Cementing Report

Legal Well Name: INDIAN HILLS UNIT NO. 42
 Common Well Name: INDIAN HILLS UNIT NO. 42
 Event Name: ORIGINAL DRILLING

Report #: 1
 Start: 4/1/2002

Spud Date: 4/3/2002
 Report Date: 4/6/2002
 End:

Stage No: 1 Slurry No: 2 of 2**Slurry Data**

Fluid Type: TAIL	Description: NEAT	Class: CLASS C	Purpose: FW PROTEC
Slurry Interval: 1,700.00 (ft) To: 1,818 ()	Cmt Vol: 150 (sk)	Density: 14.8 (ppg)	Yield: 1.34 (ft³/sk)
Water Source: Frac-tank	Slurry Vol: (bbl)	Water Vol: 6.3 (bbl)	Other Vol: ()
			Mix Water: 38.00 (gal/sk)
			Foam Job: N

Test Data

	Time	Temp	Pressure
Thickening Time:	Temperature: (°F)	Compressive Strength 1:	(°F) (psi)
Free Water: (%)	Temperature: (°F)	Compressive Strength 2:	(°F) (psi)
Fluid Loss: (cc)	Temperature: (°F)		
Fluid Loss Pressure: (°F)			

Casing Test**Shoe Test****Liner Top Test**

Test Press: (psi)
 For: (min)
 Cement Found between
 Shoe and Collar:

Pressure: (ppge)
 Tool:
 Open Hole: (ft)
 Hrs Before Test:

Liner Lap:
 Pos Test: (ppge) Tool:
 Neg Test: (ppge) Tool:
 Hrs Before Test:
 Cement Found on Tool:

Log/Survey Evaluation**Interpretation Summary**

CBL Run:
 Under Pressure: (psi)
 Bond Quality:
 Cet Run:
 Bond Quality:
 Temp Survey:
 Hrs Prior to Log:

Cement Top: (ft)
 How Determined:
 TOC Sufficient:
 Job Rating:
 If Unsuccessful Detection Indicator:
 Remedial Cementing Required:
 Number of Remedial Squeezes:

Remarks

Did not circ cement to surface. Pumped 275 sks Nitrofiged cement down backside. Held 105 psi while pumping cement. Ran 75 sks of liquid cement for cap. Lost all pressure while pumping cap. Cement fell. 1" backside w/ 250 sks P+ w/ 3% CC. Did 5 stages of 50 sks per stage ever 1 1/2hr's till cement surfaced.

Casing Report

Legal Well Name: INDIAN HILLS UNIT NO. 42
 Common Well Name: INDIAN HILLS UNIT NO. 42
 Event Name: ORIGINAL COMPLETION

Report #: 1
 Start: 4/1/2002

Spud Date: 4/3/2002
 Report Date: 5/9/2002
 End:

General Information

String Type: PRODUCTION CASING #1 Permanent Datum: KELLY BUSHING Hole Size: 8.935.0 (ft)
 Hole TVD: 8,611.0 (ft) KB-Datum: 0.00 (ft) Water TMD: Str Wt on Slips: (lb)
 Ground Level: 4,205.00 (ft) CF Elevation: (ft) Liner Overlap: Max Hole Angle: (°)
 Circ Hours: (hr) Mud Lost: (bbl) KB to Cutoff: 17.00 (ft) Days From Spud: (days)

Casing Flange / Wellhead

Manufacturer: WoodGroup Model: FMC-C22 Top Hub/Flange: 7.062 (in) / 3.000 (psi)
 Hanger Model: Tbg. Spool Packoff Model: BTM Hub/Flange: 1.000 (in) / 3.000 (psi)

Actual TMD Set: 8,935.000 (ft)

Integral Casing Detail

Item	Size (in)	Weight (lb/ft)	Grade	Drift (in)	Threads	JTS	Length (ft)	Top (ft)	MU Torq. (ft-lb)	THD	Manufacturer	Model	Cond.	Max OD (in)	Min ID (in)	Comp. Name
CASING JOINT(S)	7.000	26.00	K-55	6.151	LT&C	1	22.230	17.00					NEW	7.656	6.276	
CASING JOINT(S)	7.000	23.00	K-55	6.241	LT&C	103	4,580.750	39.23					NEW	7.656	6.366	
CASING JOINT(S)	7.000	26.00	K-55		LT&C	95	4,268.380	4,619.98					NEW			
CASING FLOAT COLLA	7.000				LT&C	1	1.500	8,888.36					NEW			
CASING JOINT(S)	7.000				LT&C	1	43.640	8,889.86					NEW			
CASING FLOAT SHOE	7.000	26.00	K-55		LT&C	1	1.500	8,933.50					NEW			

Non-Integral Casing Accessories

Accessory	Manufacturer	Number	Spacing (ft)	Interval	How Fixed
CENTRALIZER	Weatherford	1		8,912.0	CLAMPED
CENTRALIZER	Weatherford	15	90.0	7,585.0	BOLTED

Remarks

19 Jts. of 23# leftover & 1 Jt. of 26#.

Cementing Report

Legal Well Name: INDIAN HILLS UNIT NO. 42

Common Well Name: INDIAN HILLS UNIT NO. 42

Event Name: ORIGINAL COMPLETION

Report #: 1

Start: 4/1/2002

Spud Date: 4/3/2002

Report Date: 5/9/2002

End:

Cement Job Type: Primary

Primary	Squeeze Open Hole	Squeeze Casing	Plug
Hole Size: 8.750 (in)	Hole Size:	Hole Size:	Hole Size:
TMD Set: 8,935.0 (ft)	SQ TMD: (ft)	TMD Set:	Top Set: (ft)
Date Set: 5/9/2002	SQ Date:	Date Set:	BTM set: (ft)
Csg Type: PRODUCTION CASIN	SQ Type:	Csg Type:	Plug Date:
Csg Size: 1.000 (in)		SQ TMD:	Plug Type:
		SQ Date:	Drilled Out:
Cmtd. Csg: OPEN HOLE	Cmtd. Csg:	Cmtd. Csg:	Cmtd. Csg:

Cement Co: HALLIBURTON

Cementer:

Pipe Movement: NO MOVEMENT

Pipe Movement

Rot Time Start: :	Time End: :	RPM:	Init Torque: (ft-lbf)	Avg Torque: (ft-lbf)	Max Torque: (ft-lbf)
Rec Time Start: :	Time End: :	SPM:	Stroke Length: (ft)	Drag Up: (lb)	Drag Down: (lb)

Stage No: 1 of 1

Type: PRIM CMT 1ST STAGE	Start Mix Cmt: 03:45	Disp Avg Rate: 4.00 (bbl/min)	Returns: No Returns
Volume Excess %:	Start Slurry Displ: :	Disp Max Rate: 8.00 (bbl/min)	Total Mud Lost: (bbl)
Meas. From:	Start Displ: :	Bump Plug: Y	Cmt Vol to Surf: (bbl)
Time Circ Prior	End Pumping: :	Press Prior: 90 (psi)	
To Cementing: 1.50	End Pump Date:	Press Bumped: 710 (psi)	Ann Flow After: N
Mud Circ Rate: 378 (gpm)	Top Plug: N	Press Held: 5 (min)	Mixing Method:
Mud Circ Press: (psi)	Bottom Plug: Y	Float Held: Y	Density Meas By:

Mud Data

Type: FRESH WATER Density: 8.5 (ppg) Visc: (s/qt) PV/YP: (cp)/(lb/100ft²) Gels 10 sec: (lb/100ft²) Gels 10 min: (lb/100ft²)

Bottom Hole Circulating Temperature: (°F) Bottom Hole Static Temperature: (°F)

Displacement Fluid Type: FRESH WATER Density: 8.4 (ppg) Volume: 345.00 (bbl)

Stage No: 1 Slurry No: 1 of 4**Slurry Data**

Fluid Type: OTHER	Description: NITRIFIED 50,000 SCF N2	Class:	Purpose:
Slurry Interval: (ft) To: ()	Cmt Vol: (sk)	Yield: (ft ³ /sk)	Mix Water: (gal/sk)
Water Source:	Slurry Vol: (bbl)	Water Vol: (bbl)	Other Vol: ()
			Foam Job: N

Test Data

	Time	Temp	Pressure
Thickening Time:	Temperature: (°F)	Compressive Strength 1: (°F)	(psi)
Free Water: (%)	Temperature: (°F)	Compressive Strength 2: (°F)	(psi)
Fluid Loss: (cc)	Temperature: (°F)		
Fluid Loss Pressure: (°F)			

Marathon Oil Company

Cementing Report

Page 2 of 3

Legal Well Name: INDIAN HILLS UNIT NO. 42
 Common Well Name: INDIAN HILLS UNIT NO. 42
 Event Name: ORIGINAL COMPLETION

Report #: 1
 Start: 4/1/2002

Spud Date: 4/3/2002
 Report Date: 5/9/2002
 End:

Stage No: 1 Slurry No: 2 of 4

Slurry Data

Fluid Type: LEAD	Description:	Class:	Purpose: FILLER CEM
Slurry Interval: (ft) To: ()	Cmt Vol: 300 (sk)	Density: 15.0 (ppg)	Yield: 2.55 (ft³/sk)
Water Source:	Slurry Vol: (bbl)	Water Vol: (bbl)	Other Vol: ()
			Mix Water: 11.10 (gal/sk)
			Foam Job: N

Test Data

Thickening Time: 0.50	Temperature: (°F)	Compressive Strength 1:	Time	Temp	Pressure
Free Water: (%)	Temperature: (°F)	Compressive Strength 2:		(°F)	(psi)
Fluid Loss: (cc)	Temperature: (°F)			(°F)	(psi)
Fluid Loss Pressure: (°F)					

Stage No: 1 Slurry No: 2 of 4 - Additives

Trade Name	Type	Concentration	Units	Liquid Conc.	Units
100LB/SKFDP-C558	2%Zonesealant				

Stage No: 1 Slurry No: 3 of 4

Slurry Data

Fluid Type: LEAD	Description: NITRIFIED	Class:	Purpose: FILLER CEM
Slurry Interval: (ft) To: ()	Cmt Vol: 1,300 (sk)	Density: 15.2 (ppg)	Yield: 1.18 (ft³/sk)
Water Source:	Slurry Vol: (bbl)	Water Vol: (bbl)	Other Vol: ()
			Mix Water: 5.20 (gal/sk)
			Foam Job: Y

Test Data

Thickening Time: 1.17	Temperature: (°F)	Compressive Strength 1:	Time	Temp	Pressure
Free Water: (%)	Temperature: (°F)	Compressive Strength 2:		(°F)	(psi)
Fluid Loss: (cc)	Temperature: (°F)			(°F)	(psi)
Fluid Loss Pressure: (°F)					

Stage No: 1 Slurry No: 3 of 4 - Additives

Trade Name	Type	Concentration	Units	Liquid Conc.	Units
170.000scf N2	2% Zonesealant				

Stage No: 1 Slurry No: 4 of 4

Slurry Data

Fluid Type: TAIL	Description:	Class:	Purpose: FILLER CEM
Slurry Interval: (ft) To: ()	Cmt Vol: 120 (sk)	Density: 14.8 (ppg)	Yield: 1.67 (ft³/sk)
Water Source:	Slurry Vol: (bbl)	Water Vol: (bbl)	Other Vol: ()
			Mix Water: 6.50 (gal/sk)
			Foam Job: N

Test Data

Thickening Time:	Temperature: (°F)	Compressive Strength 1:	Time	Temp	Pressure
Free Water: (%)	Temperature: (°F)	Compressive Strength 2:		(°F)	(psi)
Fluid Loss: (cc)	Temperature: (°F)			(°F)	(psi)
Fluid Loss Pressure: (°F)					

Marathon Oil Company

Cementing Report

Page 3 of 3

Legal Well Name: INDIAN HILLS UNIT NO. 42
 Common Well Name: INDIAN HILLS UNIT NO. 42
 Event Name: ORIGINAL COMPLETION

Report #: 1
 Start: 4/1/2002

Spud Date: 4/3/2002
 Report Date: 5/9/2002
 End:

Stage No: 1 Slurry No: 4 of 4 - Additives

Trade Name	Type	Concentration	Units	Liquid Conc.	Units
0.4%CFR3,5#Gilsonite					
0.5%Halad-344					
0.2% HR-7, 1# Salt					

Casing Test

Shoe Test

Liner Top Test

Test Press: (psi)
 For: (min)
 Cement Found between
 Shoe and Collar:

Pressure: (ppge)
 Tool:
 Open Hole: (ft)
 Hrs Before Test:

Liner Lap:
 Pos Test: (ppge) Tool:
 Neg Test: (ppge) Tool:
 Hrs Before Test:
 Cement Found on Tool:

Log/Survey Evaluation

Interpretation Summary

CBL Run:
 Under Pressure: (psi)
 Bond Quality:
 Cet Run:
 Bond Quality:
 Temp Survey:
 Hrs Prior to Log:

Cement Top: (ft)
 How Determined:
 TOC Sufficient:
 Job Rating:
 If Unsuccessful Detection Indicator:
 Remedial Cementing Required:
 Number of Remedial Squeezes:

Remarks

No cement or N2 reached surface. Only had a moderate blow of natural gas at surface.