

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
Oil Cons.
N.M. Div-Dist. 2
1301 W. Grand Avenue
Artesia, NM 88210

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

SUNDRY NOTICES AND REPORTS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Marathon Oil Company

3a. Address

P.O. Box 552 Midland, TX 79702

3b. Phone No. (include area code)

915-687-8360

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

SHL @ 2679' FSL & 1396' FEL Sec. 33, T-21-S, R-24-E

BHL @ approx. 1500' FNL & 660' FEL, Sec. 33, T-21-S, R-24-E

Eddy Co. N.M.

5. Lease Serial No.

NM-07260

6. If Indian, Allottee or Tribe Name

N/A

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

Indian Hills Unit

8. Well Name and No.

Indian Hills Unit # 44

9. API Well No.

30-015-32656

10. Field and Pool, or Exploratory Area

Indian Basin U.P. Assoc.

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

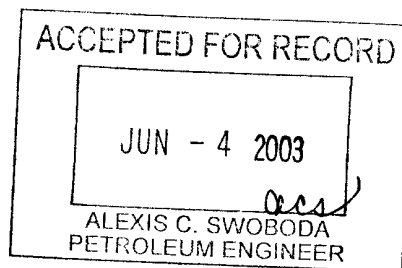
- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

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 the attached end of well report.



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

Jerry Fletcher

Title

Engineer Tech.

Date **6/2/03**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

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.

Operations Summary Report

Legal Well Name: INDIAN HILLS UNIT NO. 44

Common Well Name: INDIAN HILLS UNIT NO. 44

Event Name: ORIGINAL DRILLING

Contractor Name:

Rig Name:

Start: 3/2/2003

Rig Release:

Rig Number:

Spud Date: 12/19/2002

End:

Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
4/6/2003	08:00 - 20:00	12.00	RIG	MIRU	MIRU	Set 40' of 14" conductor.N/U Surface stack Move-in & rigged up equipment Location: Sec.-33 , T-21-S R-24-E Eddy, Co. N.M.
4/7/2003	08:00 - 20:00	12.00	RIG	MIRU	MIRU	Finish R/U rig equipment. Picked up BH collar, R/U Red Man air equipment, flowline, Wind walls.Strapped & ID collars w/ subs.
4/8/2003	07:30 - 10:00	2.50	TRIP	BBHD	DRLSUR	Started motors,Picked up monel collar & hammer.Installing rotating rubber.Notified BLM @ 9:00A.M. 4/7/03
	10:00 - 13:00	3.00	DRILL	HAMR	DRLSUR	Hammer Drill .Spudded w/ 12 1/4" bit.
	13:00 - 14:00	1.00	STUCK	WPIP	DRLSUR	Work Pipe in tight spot f/ 179' to 198'.
	14:00 - 16:00	2.00	DRILL	HAMR	DRLSUR	Hammer Drill w/ 12 1/4" hammer bit..
	16:00 - 16:15	0.25	SURV	TOTC	DRLSUR	Survey with TOTCO Tools.Single shot in monel collar.
	16:15 - 21:00	4.75	DRILL	HAMR	DRLSUR	Hammer Drill
	21:00 - 21:30	0.50	SURV	TOTC	DRLSUR	Survey with TOTCO Tools.Single shot in monel collar.
	21:30 - 02:15	4.75	DRILL	HAMR	DRLSUR	Hammer Drill
	02:15 - 02:30	0.25	SURV	TOTC	DRLSUR	Survey with TOTCO Tools.Single shot in monel collar.
	02:30 - 06:00	3.50	DRILL	HAMR	DRLSUR	Hammer Drill
4/9/2003	06:00 - 07:00	1.00	DRILL	HAMR	DRLSUR	Hammer Drill
	07:00 - 07:30	0.50	SURV	TOTC	DRLSUR	Survey with TOTCO Tools
	07:30 - 11:45	4.25	DRILL	HAMR	DRLSUR	Hammer Drill
	11:45 - 12:00	0.25	SURV	TOTC	DRLSUR	Survey with TOTCO Tools
	12:00 - 17:00	5.00	DRILL	HAMR	DRLSUR	Hammer Drill
	17:00 - 17:15	0.25	SURV	TOTC	DRLSUR	Survey with TOTCO Tools
	17:15 - 21:30	4.25	DRILL	HAMR	DRLSUR	Hammer Drill
	21:30 - 21:45	0.25	SURV	TOTC	DRLSUR	Survey with TOTCO Tools
	21:45 - 02:00	4.25	DRILL	HAMR	DRLSUR	Hammer Drill
	02:00 - 02:15	0.25	SURV	TOTC	DRLSUR	Survey with TOTCO Tools
	02:15 - 03:00	0.75	DRILL	HAMR	DRLSUR	Hammer Drill.T.D. Never got any water back.
	03:00 - 03:30	0.50	CIRC	CLN	DRLSUR	Blow hole clean.
4/10/2003	03:30 - 06:00	2.50	TRIP	BIT	DRLSUR	Trip out for Hammer & Bit.
	06:00 - 10:00	4.00	CSG	RUN	CSGSUR	Safety meeting. Ran Casing 41 jts of 9 5/8",36# csg. Landed @ 1815'.
	10:00 - 13:00	3.00	WAIT	EQUIP	CSGSUR	Pumped on hole. 15 mins. Wait on Equipment. HES Van to arrive f/ Odessa.
	13:00 - 13:30	0.50	CEMT	PRIM	CSGSUR	Pumped 10,000 SCF of N2, 10 bbls of N2- water, 20 bbls of N2 gelled water, 10 bbls of N2 water. Blew o- ring on Cmt head. Waited on O-ring.
	13:30 - 15:30	2.00	WAIT	EQUIP	CSGSUR	Waited on O-ring.
	15:30 - 17:30	2.00	CEMT	PRIM	CSGSUR	Cemented 9 5/8" surface casing with 900 sks Nitrofiend Premium Plus cement. Tailed w/ 150 sks Premium Plus. Plug down @ 1715 hrs .Circ 150 sks cement. Good returns thought out entire job. Pumped 75 sks of Premium Plus cement down the annulus.
	17:30 - 20:30	3.00			CSGSUR	Wait on Cement
	20:30 - 00:00	3.50	NUND	UwLH	CSGSUR	ND 13 5/8" Divertor. Cut off 14" conductor & 9 5/8" csg. Welded on 11" 3M SOW Casing Head. Tested t/ 1000 psi.
	00:00 - 05:00	5.00	NUND	UBOP	CSGSUR	Install BOP Equipment 11" 5M BOP & Hydril, 3" choke.
	05:00 - 06:00	1.00			CSGSUR	Tested Pipe, Blind rams, Choke t/ 3000 psi & 250 psi low.Testing BOP's @ 0600 hrs.
4/11/2003	06:00 - 07:30	1.50	TEST	BOP	CSGSUR	Tested BOP's & Hydril, Choke & valves . All tested good.
	07:30 - 12:30	5.00	EQUIP	PEQP	CSGSUR	After pulling Mousehole shuck to snub out the Divertor. Mouse hole caved in leaving 12' of fill. Had to pick up motor & bit to drill out mousehole. Had to spud on Mousehole shuck the last 8' .
	12:30 - 14:30	2.00	TRIP	BBHD	CSGSUR	PU 8 3/4" bit, Motor, NM DC's. Tst motor.
	14:30 - 15:30	1.00	TRIP	BIT	CSGSUR	Trip in hoe w/ 8 3/4" bit. Tagged @ 1765'.
	15:30 - 15:45	0.25	TEST	PLGS	CSGSUR	Test Casing. 1500 psi.

Operations Summary Report

Legal Well Name: INDIAN HILLS UNIT NO. 44

Common Well Name: INDIAN HILLS UNIT NO. 44

Event Name: ORIGINAL DRILLING

Contractor Name:

Rig Name:

Start: 3/2/2003

Rig Release:

Rig Number:

Spud Date: 12/19/2002

End:

Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
4/11/2003	15:45 - 17:00	1.25	DRILL	CEMT	CSGSUR	Drill Cement / Drill Shoe 1/ 1815'.
	17:00 - 17:45	0.75	EQUIP	REQP	CSGSUR	Install Driver & Rotating head rubber.
	17:45 - 19:45	2.00	DRILL	DOHR	DRLPR	Drill Open Hole Rotary KOP 1900'
	19:45 - 20:00	0.25	DRILL	DOHS	DRLPR	Drill Open Slide
	20:00 - 20:45	0.75	SURV	MWD	DRLPR	Survey with MWD Tools
	20:45 - 21:00	0.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	21:00 - 21:45	0.75	DRILL	DOHS	DRLPR	Drill Open Slide
	21:45 - 22:00	0.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	22:00 - 22:15	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	22:15 - 22:30	0.25	DRILL	DOHS	DRLPR	Drill Open Slide
	22:30 - 23:15	0.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	23:15 - 23:45	0.50	DRILL	DOHS	DRLPR	Drill Open Slide
	23:45 - 00:00	0.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	00:00 - 00:15	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	00:15 - 00:45	0.50	DRILL	DOHS	DRLPR	Drill Open Slide
	00:45 - 01:00	0.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	01:00 - 01:30	0.50	DRILL	DOHS	DRLPR	Drill Open Slide
	01:30 - 01:45	0.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	01:45 - 02:00	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	02:00 - 02:30	0.50	DRILL	DOHS	DRLPR	Drill Open Slide
	02:30 - 02:45	0.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	02:45 - 03:15	0.50	DRILL	DOHS	DRLPR	Drill Open Slide
	03:15 - 03:30	0.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	03:30 - 03:45	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	03:45 - 04:00	0.25	DRILL	DOHS	DRLPR	Drill Open Slide
	04:00 - 04:15	0.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	04:15 - 05:00	0.75	DRILL	DOHS	DRLPR	Drill Open Slide
	05:00 - 05:15	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	05:15 - 05:30	0.25	DRILL	DOHS	DRLPR	Drill Open Slide
	05:30 - 06:00	0.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
4/12/2003	06:00 - 06:30	0.50	DRILL	DOHS	DRLPR	Drill Open Slide
	06:30 - 06:45	0.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	06:45 - 07:00	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	07:00 - 07:15	0.25	DRILL	DOHS	DRLPR	Drill Open Slide
	07:15 - 08:00	0.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	08:00 - 08:30	0.50	DRILL	DOHS	DRLPR	Drill Open Slide
	08:30 - 09:00	0.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	09:00 - 09:15	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	09:15 - 09:30	0.25	DRILL	DOHS	DRLPR	Drill Open Slide
	09:30 - 10:00	0.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	10:00 - 10:15	0.25	DRILL	DOHS	DRLPR	Drill Open Slide
	10:15 - 10:45	0.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	10:45 - 11:00	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	11:00 - 11:15	0.25	DRILL	DOHS	DRLPR	Drill Open Slide
	11:15 - 12:00	0.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	12:00 - 12:15	0.25	DRILL	DOHS	DRLPR	Drill Open Slide
	12:15 - 12:45	0.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	12:45 - 13:00	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	13:00 - 13:15	0.25	DRILL	DOHS	DRLPR	Drill Open Slide
	13:15 - 14:30	1.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	14:30 - 14:45	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	14:45 - 15:00	0.25	DRILL	DOHS	DRLPR	Drill Open Slide
	15:00 - 16:15	1.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary

Operations Summary Report

Legal Well Name: INDIAN HILLS UNIT NO. 44

Common Well Name: INDIAN HILLS UNIT NO. 44

Event Name: ORIGINAL DRILLING

Start: 3/2/2003

Spud Date: 12/19/2002

Contractor Name:

Rig Release:

End:

Rig Name:

Rig Number:

Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
4/12/2003	16:15 - 16:30	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	16:30 - 17:45	1.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	17:45 - 18:00	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	18:00 - 19:15	1.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	19:15 - 19:30	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	19:30 - 19:45	0.25	DRILL	DOHS	DRLPR	Drill Open Slide
	19:45 - 21:00	1.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	21:00 - 21:15	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	21:15 - 22:30	1.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	22:30 - 22:45	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	22:45 - 23:45	1.00	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	23:45 - 00:00	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	00:00 - 00:45	0.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	00:45 - 01:00	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	01:00 - 01:15	0.25	DRILL	DOHS	DRLPR	Drill Open Slide
	01:15 - 02:00	0.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	02:00 - 02:15	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	02:15 - 02:30	0.25	DRILL	DOHS	DRLPR	Drill Open Slide
	02:30 - 03:30	1.00	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	03:30 - 03:45	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	03:45 - 05:00	1.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	05:00 - 05:15	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	05:15 - 05:30	0.25	DRILL	DOHS	DRLPR	Drill Open Slide
	05:30 - 06:00	0.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
4/13/2003	06:00 - 06:15	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	06:15 - 07:45	1.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	07:45 - 08:00	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	08:00 - 08:15	0.25	DRILL	DOHS	DRLPR	Drill Open Slide
	08:15 - 09:15	1.00	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	09:15 - 09:30	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	09:30 - 10:45	1.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	10:45 - 11:00	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	11:00 - 11:15	0.25	DRILL	DOHS	DRLPR	Drill Open Slide
	11:15 - 12:45	1.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	12:45 - 13:00	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	13:00 - 14:45	1.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	14:45 - 15:00	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	15:00 - 16:30	1.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	16:30 - 16:45	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	16:45 - 18:00	1.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	18:00 - 18:15	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	18:15 - 18:45	0.50	DRILL	DOHS	DRLPR	Drill Open Slide
	18:45 - 20:15	1.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	20:15 - 20:30	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	20:30 - 21:45	1.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	21:45 - 22:00	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	22:00 - 23:30	1.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	23:30 - 23:45	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	23:45 - 01:00	1.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	01:00 - 01:15	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	01:15 - 02:15	1.00	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	02:15 - 02:30	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	02:30 - 04:00	1.50	DRILL	DOHS	DRLPR	Drill Open Slide

Operations Summary Report

Legal Well Name: INDIAN HILLS UNIT NO. 44

Common Well Name: INDIAN HILLS UNIT NO. 44

Event Name: ORIGINAL DRILLING

Start: 3/2/2003

Spud Date: 12/19/2002

Contractor Name:

Rig Release:

End:

Rig Name:

Rig Number:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
4/13/2003	04:00 - 04:15	0.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	04:15 - 04:30	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	04:30 - 05:45	1.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	05:45 - 06:00	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
4/14/2003	06:00 - 06:15	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	06:15 - 07:45	1.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	07:45 - 08:00	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	08:00 - 09:45	1.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	09:45 - 10:00	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	10:00 - 11:30	1.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	11:30 - 11:45	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	11:45 - 13:15	1.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	13:15 - 13:30	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	13:30 - 15:00	1.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	15:00 - 15:15	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	15:15 - 15:30	0.25	DRILL	DOHS	DRLPR	Drill Open Slide
	15:30 - 17:00	1.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	17:00 - 17:15	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	17:15 - 17:30	0.25	DRILL	DOHS	DRLPR	Drill Open Slide
	17:30 - 18:15	0.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	18:15 - 18:30	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	18:30 - 20:15	1.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	20:15 - 20:30	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	20:30 - 21:30	1.00	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	21:30 - 21:45	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	21:45 - 22:45	1.00	DRILL	DOHS	DRLPR	Drill Open Slide
	22:45 - 23:45	1.00	DRILL	DOHR	DRLPR	Drill Open Hole Rotary. Slow P-rate
	23:45 - 02:30	2.75	TRIP	BIT	DRLPR	Trip out hole w/ bit # 3.
	02:30 - 03:30	1.00	TRIP	BBHD	DRLPR	BHA/Bit Handling. PU new bit & motor. Dailed in Motor. Tested.
4/15/2003	03:30 - 06:00	2.50	TRIP	BIT	DRLPR	Trip in w/ bit # 3.
	06:00 - 08:00	2.00	TRIP	BIT	DRLPR	Trip in w/ bit #3.
	08:00 - 08:45	0.75	DRILL	WSHR	DRLPR	Wash/Ream 63'.
	08:45 - 09:30	0.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	09:30 - 10:00	0.50	DRILL	DOHS	DRLPR	Drill Open Slide
	10:00 - 10:30	0.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	10:30 - 10:45	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	10:45 - 11:00	0.25	DRILL	DOHS	DRLPR	Drill Open Slide
	11:00 - 12:15	1.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	12:15 - 12:30	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	12:30 - 12:45	0.25	DRILL	DOHS	DRLPR	Drill Open Slide
	12:45 - 14:00	1.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	14:00 - 14:15	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	14:15 - 14:45	0.50	DRILL	DOHS	DRLPR	Drill Open Slide
	14:45 - 15:45	1.00	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	15:45 - 16:00	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	16:00 - 16:30	0.50	DRILL	DOHS	DRLPR	Drill Open Slide
	16:30 - 17:30	1.00	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	17:30 - 17:45	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	17:45 - 18:45	1.00	DRILL	DOHS	DRLPR	Drill Open Slide
	18:45 - 20:00	1.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	20:00 - 20:15	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	20:15 - 21:45	1.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	21:45 - 22:00	0.25	SURV	MWD	DRLPR	Survey with MWD Tools

Operations Summary Report

Legal Well Name: INDIAN HILLS UNIT NO. 44

Common Well Name: INDIAN HILLS UNIT NO. 44

Event Name: ORIGINAL DRILLING

Start: 3/2/2003

Spud Date: 12/19/2002

Contractor Name:

Rig Release:

End:

Rig Name:

Rig Number:

Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
4/15/2003	22:00 - 23:15	1.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	23:15 - 23:30	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	23:30 - 01:00	1.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	01:00 - 01:15	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	01:15 - 02:00	0.75	DRILL	DOHS	DRLPR	Drill Open Slide
	02:00 - 03:00	1.00	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	03:00 - 03:15	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	03:15 - 04:00	0.75	DRILL	DOHS	DRLPR	Drill Open Slide
	04:00 - 06:00	2.00	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	06:00 - 07:30	1.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
4/16/2003	07:30 - 07:45	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	07:45 - 08:30	0.75	DRILL	DOHS	DRLPR	Drill Open Slide
	08:30 - 10:00	1.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	10:00 - 10:15	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	10:15 - 11:00	0.75	DRILL	DOHS	DRLPR	Drill Open Slide
	11:00 - 12:15	1.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	12:15 - 12:30	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	12:30 - 13:00	0.50	DRILL	DOHS	DRLPR	Drill Open Slide
	13:00 - 14:30	1.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	14:30 - 14:45	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	14:45 - 16:15	1.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	16:15 - 16:30	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	16:30 - 17:15	0.75	DRILL	DOHS	DRLPR	Drill Open Slide
	17:15 - 18:45	1.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	18:45 - 19:00	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	19:00 - 19:30	0.50	DRILL	DOHS	DRLPR	Drill Open Slide
	19:30 - 21:00	1.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	21:00 - 21:15	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	21:15 - 22:45	1.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	22:45 - 23:00	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	23:00 - 00:30	1.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	00:30 - 00:45	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	00:45 - 01:15	0.50	DRILL	DOHS	DRLPR	Drill Open Slide
	01:15 - 02:30	1.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	02:30 - 02:45	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	02:45 - 03:15	0.50	DRILL	DOHS	DRLPR	Drill Open Slide
	03:15 - 04:45	1.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	04:45 - 05:00	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	05:00 - 06:00	1.00	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
4/17/2003	06:00 - 06:15	0.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	06:15 - 06:30	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	06:30 - 07:15	0.75	DRILL	DOHS	DRLPR	Drill Open Slide 10R
	07:15 - 08:30	1.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	08:30 - 08:45	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	08:45 - 09:30	0.75	DRILL	DOHS	DRLPR	Drill Open Slide 10R
	09:30 - 10:45	1.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	10:45 - 11:00	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	11:00 - 11:45	0.75	DRILL	DOHS	DRLPR	Drill Open Slide H/S
	11:45 - 13:00	1.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	13:00 - 13:15	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	13:15 - 14:00	0.75	DRILL	DOHS	DRLPR	Drill Open Slide H/S
	14:00 - 15:15	1.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	15:15 - 15:30	0.25	SURV	MWD	DRLPR	Survey with MWD Tools

Operations Summary Report

Legal Well Name: INDIAN HILLS UNIT NO. 44

Common Well Name: INDIAN HILLS UNIT NO. 44

Event Name: ORIGINAL DRILLING

Contractor Name:

Rig Name:

Start: 3/2/2003

Rig Release:

Rig Number:

Spud Date: 12/19/2002

End:

Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
4/17/2003	15:30 - 16:30	1.00	DRILL	DOHS	DRLPR	Drill Open Slide H/S
	16:30 - 17:45	1.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	17:45 - 18:00	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	18:00 - 18:30	0.50	DRILL	DOHS	DRLPR	Drill Open Slide H/S
	18:30 - 20:00	1.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	20:00 - 20:15	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	20:15 - 20:45	0.50	DRILL	DOHS	DRLPR	Drill Open Slide 40R
	20:45 - 22:15	1.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	22:15 - 22:30	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	22:30 - 23:00	0.50	DRILL	DOHS	DRLPR	Drill Open Slide 60R
	23:00 - 00:45	1.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	00:45 - 01:00	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	01:00 - 02:30	1.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	02:30 - 02:45	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	02:45 - 03:15	0.50	DRILL	DOHS	DRLPR	Drill Open Slide H/S
	03:15 - 04:45	1.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	04:45 - 05:00	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	05:00 - 06:00	1.00	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
4/18/2003	06:00 - 06:30	0.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	06:30 - 06:45	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	06:45 - 07:15	0.50	DRILL	DOHS	DRLPR	Drill Open Slide 10R
	07:15 - 08:45	1.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	08:45 - 09:00	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	09:00 - 09:30	0.50	DRILL	DOHS	DRLPR	Drill Open Slide H/S
	09:30 - 10:45	1.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	10:45 - 11:00	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	11:00 - 12:45	1.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	12:45 - 13:00	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	13:00 - 14:45	1.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	14:45 - 15:00	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	15:00 - 15:45	0.75	DRILL	DOHS	DRLPR	Drill Open Slide 10L
	15:45 - 17:15	1.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	17:15 - 17:30	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	17:30 - 18:15	0.75	DRILL	DOHS	DRLPR	Drill Open Slide 30L
	18:15 - 19:30	1.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	19:30 - 19:45	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	19:45 - 20:30	0.75	DRILL	DOHS	DRLPR	Drill Open Slide 10L
	20:30 - 21:15	0.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	21:15 - 21:30	0.25	DRILL	DOHS	DRLPR	Drill Open Slide H/S
	21:30 - 22:00	0.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	22:00 - 22:15	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	22:15 - 23:00	0.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	23:00 - 23:15	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	23:15 - 01:00	1.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	01:00 - 01:15	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	01:15 - 03:00	1.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	03:00 - 03:15	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	03:15 - 04:00	0.75	DRILL	DOHS	DRLPR	Drill Open Slide 30L
	04:00 - 04:45	0.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
4/19/2003	04:45 - 05:45	1.00	DRILL	DOHS	DRLPR	Drill Open Slide 30L
	05:45 - 06:00	0.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	06:00 - 06:15	0.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	06:15 - 06:30	0.25	SURV	MWD	DRLPR	Survey with MWD Tools

Operations Summary Report

Legal Well Name: INDIAN HILLS UNIT NO. 44

Common Well Name: INDIAN HILLS UNIT NO. 44

Event Name: ORIGINAL DRILLING

Contractor Name:

Rig Name:

Start: 3/2/2003

Rig Release:

Rig Number:

Spud Date: 12/19/2002

End:

Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
4/19/2003	06:30 - 07:15	0.75	DRILL	DOHS	DRLPR	Drill Open Slide 30L
	07:15 - 07:30	0.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	07:30 - 07:45	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	07:45 - 10:45	3.00	TRIP	BHA	DRLPR	Trip for BHA
	10:45 - 11:45	1.00	TRIP	BBHD	DRLPR	L/D bit & motor. P/U new motor & 7 7/8" stabilizer which was installed above motor.
	11:45 - 12:00	0.25	TEST	BOP	DRLPR	Worked blind rams & tested motor.
	12:00 - 15:00	3.00	TRIP	BIT	DRLPR	TIH w/ used bit & redressed motor w/ stabilizer above motor.
	15:00 - 18:45	3.75	DRILL	WSHR	DRLPR	Ream f/ 7330' to 7532' tring to knock out dog leg @ 7381' to 7445'.
	18:45 - 19:45	1.00	DRILL	DOHS	DRLPR	Drill Open Slide 30L
	19:45 - 20:45	1.00	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	20:45 - 21:00	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	21:00 - 21:45	0.75	DRILL	DOHS	DRLPR	Drill Open Slide 15L
	21:45 - 22:45	1.00	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	22:45 - 23:45	1.00	DRILL	DOHS	DRLPR	Drill Open Slide 15L
	23:45 - 00:15	0.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	00:15 - 00:30	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	00:30 - 01:15	0.75	DRILL	DOHS	DRLPR	Drill Open Slide 15L
	01:15 - 02:00	0.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	02:00 - 02:30	0.50	DRILL	DOHS	DRLPR	Drill Open Slide H/S
	02:30 - 03:15	0.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	03:15 - 03:30	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	03:30 - 03:45	0.25	DRILL	DOHS	DRLPR	Drill Open Slide 40R
	03:45 - 04:30	0.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	04:30 - 05:15	0.75	DRILL	DOHS	DRLPR	Drill Open Slide 25R
	05:15 - 06:00	0.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
4/20/2003	06:00 - 06:45	0.75	DRILL	DOHS	DRLPR	Drill Open Slide 10R
	06:45 - 07:15	0.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	07:15 - 08:15	1.00	DRILL	DOHS	DRLPR	Drill Open Slide 20R
	08:15 - 08:45	0.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	08:45 - 09:00	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	09:00 - 09:45	0.75	DRILL	DOHS	DRLPR	Drill Open Slide 15R
	09:45 - 10:45	1.00	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	10:45 - 11:15	0.50	DRILL	DOHS	DRLPR	Drill Open Slide 45R
	11:15 - 12:00	0.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	12:00 - 12:15	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	12:15 - 14:00	1.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	14:00 - 14:15	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	14:15 - 15:00	0.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	15:00 - 15:30	0.50	DRILL	DOHS	DRLPR	Drill Open Slide 10R
	15:30 - 16:15	0.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	16:15 - 16:30	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	16:30 - 16:45	0.25	DRILL	DOHS	DRLPR	Drill Open Slide 20R
	16:45 - 17:30	0.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	17:30 - 17:45	0.25	DRILL	DOHS	DRLPR	Drill Open Slide 20R
	17:45 - 18:15	0.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	18:15 - 18:30	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	18:30 - 19:45	1.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	19:45 - 20:00	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	20:00 - 20:15	0.25	DRILL	DOHS	DRLPR	Drill Open Slide 170R
	20:15 - 21:00	0.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	21:00 - 21:15	0.25	DRILL	DOHS	DRLPR	Drill Open Slide 170L
	21:15 - 21:45	0.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary

Operations Summary Report

Legal Well Name: INDIAN HILLS UNIT NO. 44

Common Well Name: INDIAN HILLS UNIT NO. 44

Event Name: ORIGINAL DRILLING

Contractor Name:

Rig Name:

Start: 3/2/2003

Rig Release:

Rig Number:

Spud Date: 12/19/2002

End:

Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
4/20/2003	21:45 - 22:00	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	22:00 - 22:30	0.50	DRILL	DOHS	DRLPR	Drill Open Slide 170L
	22:30 - 23:45	1.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	23:45 - 00:00	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	00:00 - 00:45	0.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	00:45 - 01:00	0.25	DRILL	DOHS	DRLPR	Drill Open Slide . Wouldn't slide . 8292' Lost complete returns & pump pressure went to 0 PSI .
	01:00 - 01:15	0.25	CIRC	HOLE	DRLPR	Circulate until started to show some pump pressure.Picking up off btm. Started to show about 200 psi on pump.
	01:15 - 03:30	2.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	03:30 - 04:00	0.50	SURV	MWD	DRLPR	Survey with MWD Tools
	04:00 - 06:00	2.00	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
4/21/2003	06:00 - 06:15	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	06:15 - 07:45	1.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary . No returns.
	07:45 - 08:00	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	08:00 - 09:45	1.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary . No returns
	09:45 - 10:00	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	10:00 - 10:30	0.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary . No returns
	10:30 - 12:00	1.50	CIRC	HOLE	DRLPR	Pump sweeps ring to get returns back.Pump pressure got up to 1650 psi showing little flow. Condition Hole
	12:00 - 13:00	1.00	TRIP	LOGS	DRLPR	Round trip 10 stand short trip before logs.
	13:00 - 14:30	1.50	CIRC	HOLE	DRLPR	Pump sweep & circulated spotted pill to surface. Condition Hole
	14:30 - 18:30	4.00	TRIP	LOGS	DRLPR	Trip for Logs
	18:30 - 19:30	1.00	TRIP	BBHD	DRLPR	L/D monel,Teleco,Pony monel, SS, Motor & bit.
	19:30 - 01:15	5.75			EVALPR	Held safety meeting,R/U loggers & run Open Hole Log. Made one run , run Spectral Density Dual Spaced Neutron Spectral Gamma. R/D loggers.Sticky from 8460' to 8250'

Casing Report

Legal Well Name: INDIAN HILLS UNIT NO. 44
 Common Well Name: INDIAN HILLS UNIT NO. 44
 Event Name: ORIGINAL DRILLING

Report #: 1
 Start: 3/2/2003

Spud Date: 12/19/2002
 Report Date: 4/9/2003
 End:

General Information

String Type: SURFACE CASING	Permanent Datum: KELLY BUSHING	Hole Size:	Hole TMD: 1,825.0 (ft)
Hole TVD: 1,815.0 (ft)	KB-Datum: 0.00 (ft)	Water TMD:	Str Wt on Slips: (lb)
Ground Level: 4,062.00 (ft)	CF Elevation: (ft)	Liner Overlap: (ft)	Max Hole Angle: 0.75 (°)
Circ Hours: 1.00 (hr)	Mud Lost: (bbl)	KB to Cutoff: (ft)	Days From Spud: 2 (days)

Casing Flange / Wellhead

Manufacturer: WOOD GROUP	Model: FMC C-22	Top Hub/Flange: 11.000 (in) / 3,000 (psi)
Hanger Model: SOW	Packoff Model:	BTM Hub/Flange 9.625 (in) / (psi)

Actual TMD Set: 1,815.520 (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	36.0	K-55	8.765	8 ROUND	40	1,768.180			N				9.625	8.900	
CASING FLOAT COLLA	9.625	36.0	K-55	8.765	8 ROUND		1.200	1,768.18						9.625	8.900	
CASING JOINT(S)	9.625	36.0	K-55	8.765	8 ROUND	1	44.940	1,769.38		N				9.625	8.900	
CASING FLOAT SHOE	9.625	36.0	K-55	8.765	8 ROUND		1.200	1,814.32		N				9.625	8.900	

Non-Integral Casing Accessories

Accessory	Manufacturer	Number	Spacing (ft)	Interval		How Fixed
				Top (ft)	Bottom (ft)	
CENTRALIZER	GEMCO	12	128.0	351.0	1,800.0	CLAMPED

Marathon Oil Company

Cementing Report

Page 1 of 3

Legal Well Name: INDIAN HILLS UNIT NO. 44 Report #: 1 Spud Date: 12/19/2002
Common Well Name: INDIAN HILLS UNIT NO. 44 Start: 3/2/2003 Report Date: 4/9/2003
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: 1,815.0 (ft)	SQ TMD: (ft)	TMD Set:	Top Set: (ft)
Date Set: 4/9/2003	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: 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: :	Disp Avg Rate: (bbl/min)	Returns:
Volume Excess %: 150.00	Start Slurry Displ: :	Disp Max Rate: (bbl/min)	Total Mud Lost: (bbl)
Meas. From:	Start Displ: :	Bump Plug: Y	Cmt Vol to Surf: 75.00 (bbl)
Time Circ Prior	End Pumping: :	Press Prior: 520 (psi)	
To Cementing:	End Pump Date:	Press Bumped: 2,800 (psi)	Ann Flow After: N
Mud Circ Rate: (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: 8.6 (ppg) Visc: 26 (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: 8.6 (ppg) Volume: 137.85 (bbl)

Stage No: 1 Slurry No: 1 of 4

Slurry Data

Fluid Type: LEAD	Description: FOAM	Class: CLASS C	Purpose: FILLER CEM
Slurry Interval: 213.00 (ft) To: 1,750.00 (ft)	Cmt Vol: 900 (sk)	Density: 14.8 (ppg)	Yield: 1.35 (ft ³ /sk)
Water Source: Frac Tank	Slurry Vol: 10.0 (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: 12.00	(°F) 600 (psi)
Free Water: (%)	Temperature: (°F)	Compressive Strength 2: 24.00	(°F) 1,250 (psi)
Fluid Loss: (cc)	Temperature: (°F)		
Fluid Loss Pressure: (°F)			

Cementing Report

Legal Well Name: INDIAN HILLS UNIT NO. 44
 Common Well Name: INDIAN HILLS UNIT NO. 44
 Event Name: ORIGINAL DRILLING

Report #: 1
 Start: 3/2/2003

Spud Date: 12/19/2002
 Report Date: 4/9/2003
 End:

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

Trade Name	Type	Concentration	Units	Liquid Conc.	Units
CACL2 (LIQUID)	ACCELERATOR	2.00			% BWOC

Stage No: 1 Slurry No: 2 of 4**Slurry Data**

Fluid Type: TAIL Description: NEAT Class: CLASS C Purpose: SHOE INTEG
 Slurry Interval: 17,750.00 (ft) To: 1,815.00 (ft) Cmt Vol: 150 (sk) Density: 14.8 (ppg) Yield: 1.35 (ft³/sk) Mix Water: 6.30 (gal/sk)
 Water Source: Frac tank Slurry Vol: 10.0 (bbl) Water Vol: 6.3 (bbl) Other Vol: () Foam Job: N

Test Data

	Time	Temp	Pressure
Thickening Time:	Compressive Strength 1: 12.00	(°F)	1,250 (psi)
Free Water: (%)	Compressive Strength 2: 24.00	(°F)	2,300 (psi)
Fluid Loss: (cc)			
Fluid Loss Pressure: (°F)			

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

Trade Name	Type	Concentration	Units	Liquid Conc.	Units
CALC2	ACCELERATOR	2.00			% BWOC
CalSeal		10.00			% BWOC

Stage No: 1 Slurry No: 3 of 4**Slurry Data**

Fluid Type: SPACER Description: FOAM Class: CLASS C Purpose: FILLER CEM
 Slurry Interval: 213.00 (ft) To: 640.00 (ft) Cmt Vol: 400 (sk) Density: 14.8 (ppg) Yield: 1.35 (ft³/sk) Mix Water: 6.40 (gal/sk)
 Water Source: Frac Tank Slurry Vol: (bbl) Water Vol: 6.3 (bbl) Other Vol: () Foam Job: Y

Test Data

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

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

Trade Name	Type	Concentration	Units	Liquid Conc.	Units
CALC2	ACCELERATOR	2.00			% BWOC

Cementing Report

Legal Well Name: INDIAN HILLS UNIT NO. 44
 Common Well Name: INDIAN HILLS UNIT NO. 44
 Event Name: ORIGINAL DRILLING

Report #: 1
 Start: 3/2/2003

Spud Date: 12/19/2002
 Report Date: 4/9/2003
 End:

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

Fluid Type: OTHER Description: OTHER Class: CLASS H Purpose: FILLER CEM
 Slurry Interval: (ft) To: 150.00 (ft) Cmt Vol: 75 (sk) Density: 14.8 (ppg) Yield: 1.47 (ft³/sk) Mix Water: 6.84 (gal/sk)
 Water Source: Slurry Vol: (bbl) Water Vol: (bbl) Other Vol: (l) 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)			

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

Trade Name	Type	Concentration	Units	Liquid Conc.	Units
CACL2 (LIQUID)	ACCELERATOR	2.00			% BWOC

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

Test Press: (psi)	Pressure: (ppge)	Liner Lap:
For: (min)	Tool:	Pos Test: (ppge) Tool:
Cement Found between	Open Hole: (ft)	Neg Test: (ppge) Tool:
Shoe and Collar:	Hrs Before Test:	Hrs Before Test:
		Cement Found on Tool:

Log/Survey Evaluation**Interpretation Summary**

CBL Run:	Cement Top: (ft)
Under Pressure: (psi)	How Determined:
Bond Quality:	TOC Sufficient:
Cet Run:	Job Rating:
Bond Quality:	If Unsuccessful Detection Indicator:
Temp Survey:	Remedial Cementing Required:
Hrs Prior to Log:	Number of Remedial Squeezes:

Remarks

10,000 SCF of N2, 10 bbls fresh water w/ N2, 20 bbls of gelled water w/ N2, 10 bbls of N2 Water, 215 bbls of Foamed lead, 36 bbls of Tail.

Casing Report

Legal Well Name: INDIAN HILLS UNIT NO. 44
 Common Well Name: INDIAN HILLS UNIT NO. 44
 Event Name: ORIGINAL COMPLETION

Report #: 1
 Start: 3/31/2003

Spud Date: 12/19/2002
 Report Date: 4/22/2003
 End:

General Information

String Type: PRODUCTION CASING #1	Permanent Datum: KELLY BUSHING	Hole Size:	Hole TMD: 8,600.0 (ft)
Hole TVD: 8,426.0 (ft)	KB-Datum: 0.00 (ft)	Water TMD:	Str Wt on Slips: (lb)
Ground Level: 4,062.00 (ft)	CF Elevation: (ft)	Liner Overlap: (ft)	Max Hole Angle: (°)
Circ Hours: 2.00 (hr)	Mud Lost: (bbl)	KB to Cutoff: (ft)	Days From Spud: (days)

Casing Flange / Wellhead

Manufacturer: WOOD GROUP	Model: FMC C-22	Top Hub/Flange: (in) / (psi)
Hanger Model:	Packoff Model:	BTM Hub/Flange: (in) / (psi)

Actual TMD Set: 8,600.330 (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)	7.000	26.0	K-55	6.276	8 ROUND	2	70.180							7.656	6.151	
CASING JOINT(S)	7.000	23.0	K-55	6.366	8 ROUND	86	3,784.190	70.18						7.656	6.241	
D.V. Tool	7.000	26.0	L-80	6.276	8 ROUND		2.200	3,854.37						7.656	6.151	
PUP JOINT	7.000	26.0	K-55	6.276	8 ROUND		7.000	3,856.57						7.656	6.151	
ECP	7.000	26.0	L-80	6.276	8 ROUND		11.000	3,863.57						7.656	6.151	
CASING JOINT(S)	7.000	23.0	K-55	6.366	8 ROUND	24	1,037.400	3,874.57						7.656	6.241	
CASING JOINT(S)	7.000	26.0	K-55	6.276	8 ROUND	85	3,642.110	4,911.97						7.656	6.151	
CASING FLOAT COLLA	7.000	26.0	L-80	6.276	8 ROUND		1.200	8,554.08						7.656		
CASING JOINT(S)	7.000	26.0	K-55		8 ROUND	1	43.700	8,555.28						7.656		
CASING FLOAT SHOE	7.000	26.0	L-55		8 ROUND		1.350	8,598.98						7.656		

Non-Integral Casing Accessories

Accessory	Manufacturer	Number	Spacing (ft)	Interval		How Fixed
				Top (ft)	Bottom (ft)	
CENTRALIZER	Weatherford	30	120.0			BOLTED

Casing Report

Legal Well Name: INDIAN HILLS UNIT NO. 44
Common Well Name: INDIAN HILLS UNIT NO. 44
Event Name: ORIGINAL COMPLETION

Report #: 1
Start: 3/31/2003

Spud Date: 12/19/2002
Report Date: 4/22/2003
End:

Remarks

Short jt # 13 th above Float collar @ 8009.62' . (length 34.33)
2nd short jt # 31 above Float collar @ 7230.55' . (length 37.82)

Cementing Report

Legal Well Name: INDIAN HILLS UNIT NO. 44

Common Well Name: INDIAN HILLS UNIT NO. 44

Event Name: ORIGINAL COMPLETION

Report #: 1

Start: 3/31/2003

Spud Date: 12/19/2002

Report Date: 4/22/2003

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: 8,600.0 (ft)	SQ TMD: (ft)	TMD Set:	Top Set: (ft)
Date Set: 4/22/2003	SQ Date:	Date Set:	BTM set: (ft)
Csg Type: PRODUCTION CASIN	SQ Type:	Csg Type:	Plug Date:
Csg Size: 7.000 (in)		SQ TMD:	Plug Type:
		SQ Date:	Drilled Out:
Cmt. Csg: PRODUCTION CASIN	Cmt. Csg:	Cmt. Csg:	Cmt. 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 2

Type: PRIM CMT 1ST STAGE	Start Mix Cmt: 05:30	Disp Avg Rate: 10.00 (bbl/min)	Returns: none
Volume Excess %: 100.00	Start Slurry Displ: :	Disp Max Rate: 10.00 (bbl/min)	Total Mud Lost: (bbl)
Meas. From: 8600	Start Displ: :	Bump Plug:	Cmt Vol to Surf: (bbl)
Time Circ Prior	End Pumping: :	Press Prior: (psi)	
To Cementing: 3.00	End Pump Date:	Press Bumped: (psi)	Ann Flow After:
Mud Circ Rate: 168 (gpm)	Top Plug:	Press Held: (min)	Mixing Method:
Mud Circ Press: 50 (psi)	Bottom Plug:	Float Held:	Density Meas By:

Mud Data

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

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

Fluid Type: LEAD	Description: OTHER	Class: CLASS H	Purpose: SHOE INTEG
Slurry Interval: 7,500.00 (ft) To: 8,600.00 (ft)	Cmt Vol: 210 (sk)	Density: 13.0 (ppg)	Yield: 1.67 (ft ³ /sk)
Water Source: frac tank	Slurry Vol: 10.0 (bbl)	Water Vol: 13.0 (bbl)	Other Vol: ()
			Mix Water: 8.26 (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)			

Cementing Report

Legal Well Name: INDIAN HILLS UNIT NO. 44
 Common Well Name: INDIAN HILLS UNIT NO. 44
 Event Name: ORIGINAL COMPLETION

Report #: 1
 Start: 3/31/2003

Spud Date: 12/19/2002
 Report Date: 4/22/2003
 End:

Stage No: 2 of 2

Type: PRIM CMT 2ND STAGE	Start Mix Cmt: 10:30	Disp Avg Rate: 10.00 (bbl/min)	Returns: 90%
Volume Excess %: 100.00	Start Slurry Displ: :	Disp Max Rate: (bbl/min)	Total Mud Lost: (bbl)
Meas. From: ECP	Start Displ: :	Bump Plug:	Cmt Vol to Surf: (bbl)
Time Circ Prior	End Pumping: :	Press Prior: (psi)	
To Cementing: 4.00	End Pump Date:	Press Bumped: (psi)	Ann Flow After:
Mud Circ Rate: 294 (gpm)	Top Plug:	Press Held: (min)	Mixing Method:
Mud Circ Press: 220 (psi)	Bottom Plug:	Float Held:	Density Meas By:

Mud Data

Type: Density: (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: Density: (ppg) Volume: (bbl)

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

Fluid Type: LEAD	Description: NITRIFIED	Class: CLASS C	Purpose: FILLER CEM
Slurry Interval: (ft) To: 3,865.00 (ft)	Cmt Vol: 320 (sk)	Density: 11.9 (ppg)	Yield: 2.46 (ft ³ /sk)
Water Source: frac tank	Slurry Vol: 20.0 (bbl)	Water Vol: 13.8 (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)			

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

Fluid Type: TAIL	Description: OTHER	Class: CLASS C	Purpose: FILLER CEM
Slurry Interval: 3,000.00 (ft) To: 3,865.00 (ft)	Cmt Vol: 100 (sk)	Density: 14.8 (ppg)	Yield: 1.35 (ft ³ /sk)
Water Source: frac tank	Slurry Vol: (bbl)	Water Vol: 6.4 (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)			

Cementing Report

Legal Well Name: INDIAN HILLS UNIT NO. 44
Common Well Name: INDIAN HILLS UNIT NO. 44
Event Name: ORIGINAL COMPLETION

Report #: 1
Start: 3/31/2003

Spud Date: 12/19/2002
Report Date: 4/22/2003
End:

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:

Operations Summary Report

Legal Well Name: INDIAN HILLS UNIT NO. 44
 Common Well Name: INDIAN HILLS UNIT NO. 44
 Event Name: ORIGINAL COMPLETION
 Contractor Name: Key Energy Services
 Rig Name: Lencho Marquez

Start: 3/31/2003
 Rig Release: 356
 Spud Date: 12/19/2002
 End:
 Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
4/21/2003	01:15 - 06:00	4.75	TRIP	BIT	CSGPRO	Trip in hole w/ bit.
4/22/2003	06:00 - 06:15	0.25	TRIP	BIT	CSGPRO	TIH w/ bit to 8480'. Tagged up.
	06:15 - 09:00	2.75	DRILL	WSHR	CSGPRO	Wash & clean out fill f/ 8480' to 8600'.
	09:00 - 10:30	1.50	CIRC	HOLE	CSGPRO	Pumped hole. Did not cir. Spotted sweep on btm.
	10:30 - 16:30	6.00	TRIP	LDDP	CSGPRO	POOH L/D D.P. & Collars.
	16:30 - 18:00	1.50	CSG	RUN	CSGPRO	Held safety meeting & R/U casers. Picking up float guide shoe, float collar, ECP, & D.V. tool & set on floor.
	18:00 - 02:00	8.00	CSG	RUN	CSGPRO	Run 195 jt's 7" 23# & 26# to 8460'. Tagged out.
	02:00 - 04:30	2.50	CIRC	WSHD	CSGPRO	Work & wash 7" casing from 8460' to 8600' w/ rig pump.
	04:30 - 05:30	1.00	CIRC	CLN	CSGPRO	Pumped down hole & broke cir. w/ 30% returns for about 20 min. Then losted again. (Held Safety meeting w/ Halliburton while pumping down hole & R/U head.)
	05:30 - 06:00	0.50	CEMT	PRIM	CSGPRO	Primary Cementing Operations. Pumped 10 bbl's 10% ca-seal, 10bbl spacer, 1000 gals of 101 super flush, followed w/ 10 bbl spacer, & 210 sks of P- Super H. Pumping displacement.
4/23/2003	06:00 - 06:30	0.50	CEMT	OTHR	CSGPRO	Pumped displacement & bumped plug. @ 6:30 A.M. Texas Time.
	06:30 - 10:30	4.00	WAIT	CEMT	CSGPRO	Dropped bomb & opened D.V. tool. Broke cir w/ Hall. pump. Switched to rig pump & Cir D.V. tool.
	10:30 - 11:15	0.75	CEMT	PRIM	CSGPRO	Pump 2nd stage cement job. Pumped 20 bbl wtr spacer. Started pumping lead of 320 sks interfil C, tailed w/ 100 sks Premuim + Bumped plug @ 11:15 A.M. Cir 50 sks to pit.
	11:15 - 12:00	0.75	EQUIP	RURD	CSGPRO	RD Halliburton equipment.
	12:00 - 12:30	0.50	NUND	DBOP	CSGPRO	N/D bop stack & picked up.
	12:30 - 16:30	4.00	WAIT	EQIP	CSGPRO	Wait on Equipment. Wellhead equipment was called f/ @ 7:00 A.M.. Woods Group did not have tbq hanger ready.
	16:30 - 18:00	1.50	NUND	DBOP	CSGPRO	Remove BOP Equipment Set slips & cut off 7" csg. Pulled out stack & R/U Tbg hanger. & tested. O.K.
5/7/2003	06:00 - 06:30	0.50	SAFETY	SMTG	RCMP	Released rig from well @ 1800Hr Texas Time.
	06:30 - 08:00	1.50	PLNRNP	PTBG	RCMP	Safety Meeting
	08:00 - 13:00	5.00	PERF	WLNC	RCMP	POOH w/ tbq.
	13:00 - 16:30	3.50	RIG	RDMO	RCMP	RU Baker Atlas. Tstd lub to 1500#. RIH w/ temp log f/ 8505' to 7720'. RIH w/ first gun & gam tool corr -HES OH log 4/20/03. Pfd 8096'-8102, 8134-41, 52-58, 99-8205 in 3 runs w/ 4" Case guns- Owen 317T charges @ 2 JSPF. FL 600' (1) 800' (2) 1200' (3) Total holes 48. RIH w/ complete 2 7/8" tbq string. Closed and locked pipe rams. Chained dwn tbq and capped TIW valve. Will RD and move over to IHU #29 in the morning.
5/12/2003	06:00 - 06:30	0.50	SAFETY	SMTG	RCMP	Safety Meeting
	06:30 - 08:00	1.50	RIG	MIRU	MIRU	Move in / RU Rig, Workover Unit, etc.
	08:00 - 17:30	9.50	PKRPLG	RUN	RCMP	POOH w/ 2 7/8" prod tbq. Stand back. PU 7" RTTS pkr - PU and RIH w/ 253 jts of 3 1/2" L-80 workstring to a depth of 7920'. Set RTTS. Load and test backside to 500 psig. OK SDFN
5/13/2003	06:00 - 06:30	0.50	SAFETY	SMTG	RCMP	Safety Meeting
	06:30 - 13:30	7.00	STIM	FRAC	STIM	RU HES. PJSM. Gel tanks. Test lines to 8500#. Acid frac'd well w/ 4000gls gel, 8000 gals 17% CCA sour, 3000 gals gel, 6000 gals 17% CCA sour, 3000 gals gel, 6000gals CCA sour over flushed. Total acid 20,00 gals, Total water frac gel G (40#) 10,000 gals. 3000 gals of fresh water flush. Avg trt psi - 3125 @ 30 BPM. Max trt psi - 4518 psig Only one significant break. RD Halliburton Frac equip
	13:30 - 18:30	5.00	PLNRNP		RCMP	RU pipe racks and LD machine. POH LD 3 1/2" WS. Change pipe rams to 2 7/8". RIH w/ 30 stds of 2 7/8" killstring. SDFN
5/14/2003	06:00 - 06:30	0.50	SAFETY	SMTG	RCMP	Safety Meeting
	06:30 - 08:00	1.50	PLNRNP	PTBG	RCMP	POOH w/ tbq.

Operations Summary Report

Legal Well Name: INDIAN HILLS UNIT NO. 44

Common Well Name: INDIAN HILLS UNIT NO. 44

Event Name: ORIGINAL COMPLETION

Contractor Name: Key Energy Services

Rig Name: Lencho Marquez

Start: 3/31/2003

Rig Release:

Rig Number: 356

Spud Date: 12/19/2002

End:

Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
5/14/2003	08:00 - 14:00	6.00	PERF	WLNC	RCMP	PJSM. Well had app 50# on tbg. POOH w/ tbg. RU Baker Atlas. std lub to 1500#. Made 11 perf runs w/ 4" port guns 4JSPF-120deg phs(8009-29,7990-96,8029-44,59-66,70-79,83-8103,46-42,11-19,46-62,24-44,86-8306,8198,8208,8272-8282) RD Baker Atlas.
5/15/2003	14:00 - 17:30	3.50	RIG	RDMO	RCMP	RIH w/ 7" PPI pkr to 7885'. Closed and locked pipe rams. SDFN
	06:00 - 06:30	0.50	SAFETY	SMTG	RCMP	Safety Meeting
	06:30 - 14:00	7.50	STIM	ACID	RCMP	RU Halliburton. Titrate acid. PJSM. Bled off. RIH w/ PPI pkrs to 8306'. Drpd retrievable valves. Test tbg and tool to 4500#. Funct.test RFCV. Open 2230# Close 560# PUH acidizing new perms w/ 17% CCA sour. Made on 4 settings - PUH above perms - chg to water.
5/16/2003	14:00 - 14:30	0.50	SHUTDN	SIFN	RCMP	Secure Well/Location, SIFN Very gusty winds.
	06:00 - 06:30	0.50	SAFETY	SMTG	RCMP	Safety Meeting
	06:30 - 11:30	5.00	STIM	ACID	RCMP	PJSM. Bled off. RIH w/ PPI pkrs to next setting. Funct.test RFCV. Open 2230# Close 560# PUH acidizing new perms w/ 100 gals of 17% CCA sour. Total of 95 settings and a total of 19,000 gallons. Over flushed with 100 bbls of fresh water. RD Halliburton. Fished retrievable valves.
5/18/2003	11:30 - 15:30	4.00	PKRPLG	PULL	RCMP	Released PPI packers and POOH. RIH w/ RBP to 2986'. Set RBP. Load and test to 500 psig. OK POOH w/ tbg.
	15:30 - 18:30	3.00	EQUIP	RURD	RCMP	PU Centrilift pump equipment and assembled. Did not assemble top two pumps do to mishandling. Sent top pumps back to shop. Scheduled to return Sunday morning.
	05:30 - 06:00	0.50	SAFETY	SMTG	RCMP	Safety Meeting
5/19/2003	06:00 - 11:30	5.50	STIM	ACID	RCMP	PJSM. Assembled pumps. RU spoolers. Checked clamps - WRONG SIZE!! S. Fulwider ordered new clamps. Forced to SD due to wrong equipment.
	05:30 - 06:00	0.50	SAFETY	SMTG	RCMP	Safety Meeting
	06:00 - 14:00	8.00	PLRNRP		RCMP	PJSM. Assembled pumps. RU spoolers. Checked clamps CIH w/ 112 jts of 2 7/8" tbg to RBP. Latch on equ - CIH w/ rem 151 jts. PU hgr, meas & make final splice. Ld hgr in WH. ND BOPs. NU wellhead. RDMO to IHU #19. Tied chemical pumps to CTs and started pumps. CTs at 7987' & 8187'. Used 525 cable clamps from pump to surface. Move out / RD Rig, Workover Unit to IHU #19
5/20/2003	14:00 - 15:30	1.50	RIG	RDMO	RDMO	Pre start check list - Started pump at 09:30. Fluid to surface in 16 minutes. IPIP - 1063 psig. Stabilized PIP - 1017 psig. Charlie Williams turned pump to production.
	08:00 - 10:00	2.00	TEST		FLOW	