

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 ON WELLS

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

SUBMIT IN TRIPLICATE - Other instructions on reverse side

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)

432-687-8366

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

Sections 21 & 29 Township 21 South, Range 24 East N.M.P.M.

surface location- 453' FSL & 350' FWL Sec.21

bottom hole location- 179' FNL & 1207' FEL Sec.29

5. Lease Serial No.

LC-06439B

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 G.C.56

9. API Well No.

30-015-32878

10. Field and Pool, or Exploratory Area

Indian Basin

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

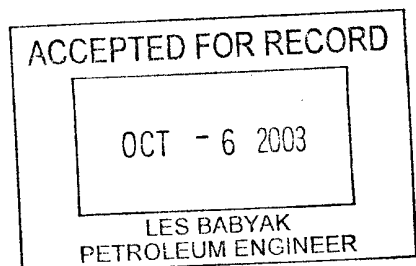
☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

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 well summary report.



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

Mike Mick

Title

Engineer Tech

Date 10-02-03

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 GC NO 56
 Common Well Name: INDIAN HILLS UNIT GC NO 56
 Event Name: ORIGINAL DRILLING
 Contractor Name: MCVAY DRILLING
 Rig Name: MCVAY DRILLING

Start: 8/26/2003
 Rig Release: 9/15/2003
 Rig Number: 4

Spud Date: 8/24/2003
 End:
 Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
9/1/2003	06:00 - 19:00	13.00	RIG	MIRU	MIRU	Location built by Key Const. Drilled & set 40' of 14" conductor pipe. Cmt t/ suface. MIRU McVay #4.
9/2/2003	06:00 - 08:30	2.50	WAIT	DRLG	MIRU	Shut down .Started rig motors.
	08:30 - 09:00	0.50	TRIP	BBHD	MIRU	PU 12 1/4" Hammer.
	09:00 - 12:00	3.00	DRILL	AIR	DRLSUR	Spudded 12 1/4" hole @ 0900 hrs. Aired drilled f/ 56' t/ 179' water @ 110'.
	12:00 - 12:15	0.25	SURV	GYRO	DRLSUR	Survey with GYRO system
	12:15 - 16:30	4.25	DRILL	AIR	DRLSUR	Air Drilling
	16:30 - 17:00	0.50	SURV	GYRO	DRLSUR	Survey with GYRO system
	17:00 - 17:30	0.50	DRILL	AIR	DRLSUR	Sired drilled t/ 446'. P-rate slowed.
	17:30 - 18:30	1.00	WAIT	OTHR	DRLSUR	Waited on hole to blow down. Would not blow down. Would head evey 10 mins. Pumping water down hole w/ Rig pump.
	18:30 - 20:30	2.00	TRIP	BIT	DRLSUR	TOOH w/ Hammer. (stripped) L/D Hammer. PU Bit, Shock sub, 1-DC's, Reamer.
	20:30 - 23:00	2.50	TRIP	BIT	DRLSUR	TIH w/ 12 1/4" bit. 3 1/2 hrs before hoe quit unloaded water.
9/3/2003	23:00 - 03:30	4.50	DRILL	AIR	DRLSUR	Aired drilled f/ 446' t/ 590'. Pumping 16 gals/hr 2 gals/hr of soap.
	03:30 - 03:45	0.25	SURV	GYRO	DRLSUR	Survey with GYRO system
	03:45 - 06:00	2.25	DRILL	AIR	DRLSUR	Aired drilled.
	06:00 - 08:45	2.75	DRILL	AIR	DRLSUR	Air Drilling 3500 SCF/min of air, 20 gals of hr of water, 4 gals of soap/hr.
	08:45 - 09:00	0.25	SURV	GYRO	DRLSUR	Survey with GYRO system
	09:00 - 12:15	3.25	DRILL	AIR	DRLSUR	Air drilled
	12:15 - 12:30	0.25	SURV	GYRO	DRLSUR	Survey with GYRO system
	12:30 - 16:00	3.50	DRILL	AIR	DRLSUR	Air drilled
	16:00 - 16:15	0.25	SURV	GYRO	DRLSUR	Survey with GYRO system
	16:15 - 17:45	1.50	DRILL	AIR	DRLSUR	Air drilled
9/4/2003	17:45 - 18:00	0.25	CIRC	CLN	DRLSUR	Circulate Clean
	18:00 - 21:00	3.00	TRIP	BIT	DRLSUR	TOOH. L/D 3-8" DC's, & BHA.(Stripped) water flow/blow
	21:00 - 23:00	2.00	CSG	RUN	CSGSUR	Safety meeting. RU. Ran 27 jts of 9/58", 36#, K-55 csg. Landed @ 1208'. Well died out after 2 1/2 hrs.
	23:00 - 01:30	2.50	CEMT	PRIM	CSGSUR	Safety meeting. RU Cmt head. Tested lines t/ 3000 psi. Pumped csg capacity. Pumped 10,000 SCF of N2, 20 bbls of gelled water, 600 sks of Foamed Premium Plus, 1.5% Zonesealant, 2% CaCl2, tailed w/ 150 sks of Premium Plus w/ 1.5% Zonesealant, 2% CaCl2. Circ 65 sks. Capped w/ 75 sks of Neat w/ 2% Cacl2.
	01:30 - 04:30	3.00	WAIT	CEMT	CSGSUR	Wait on Cement
	04:30 - 06:00	1.50	NUND	DBOP	CSGSUR	ND Diverter. Cut off 9 5/8" csg @ 0600 hrs.
	06:00 - 10:30	4.50	NUND	DBOP	CSGSUR	Finish cutting surface pipe & pulled surface stack.(Location muddy & slick)
	10:30 - 13:00	2.50	WELD	WLHD	CSGSUR	Weld on Csg head WG-22 11" 3M X 9 5/8" SOW wellhead.
	13:00 - 18:00	5.00	NUND	UBOP	CSGSUR	Installed 11" 5M bop,install & weld on flow line,R/U manifold & choke line.Dumped 25 yards of ready mix behind 9 5/8" surface csg. Cement to surface.
	18:00 - 23:00	5.00	TEST	BOP	CSGSUR	Test bop's,choke manifold line,kelly & mud line to 3000 PSI O.K. (Replaced 4" valve on choke manifold, lower kelly valve, repaired leaks on mud line.)
9/5/2003	23:00 - 00:00	1.00	TRIP	BBHD	CSGSUR	Picked up motor w/ bit, 7 7/8" Nortrac, Shock sub,SNMDC, Teleco, X-over sub,NMDC.
	00:00 - 03:00	3.00	TRIP	MOTR	CSGSUR	TIH w/ motor , Picking up jars & set 10 stands HWDP below jars.Tagged up @ 1062'. L/D 4jt's of HWDP.
	03:00 - 06:00	3.00	DRILL	CEMT	CSGSUR	Tagged up on cement @ 1062' .Drill Cement w/ 4 to 5 points
	06:00 - 07:00	1.00	DRILL	CEMT	CSGSUR	Drill Cement / Drill Shoe

Operations Summary Report

Legal Well Name: INDIAN HILLS UNIT GC NO 56
 Common Well Name: INDIAN HILLS UNIT GC NO 56
 Event Name: ORIGINAL DRILLING
 Contractor Name: MCVAY DRILLING
 Rig Name: MCVAY DRILLING

Start: 8/26/2003
 Rig Release: 9/15/2003
 Rig Number: 4
 Spud Date: 8/24/2003
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Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
9/5/2003	07:00 - 07:15	0.25	TEST	CSG	CSGSUR	Test shoe jt to 1000 psi w/ rig pump.
	07:15 - 07:30	0.25	DRILL	CEMT	CSGSUR	Drill Cement / Drill Shoe
	07:30 - 09:30	2.00	DRILL	DOH	DRLPR	Drill Open Hole w/ 8 3/4" bit w/ 1.3 motor.
	09:30 - 09:45	0.25	DRILL	DOHS	DRLPR	Drill Open Slide 180 Azm
	09:45 - 10:30	0.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	10:30 - 10:45	0.25	DRILL	DOHS	DRLPR	Drill Open Slide 190 Azm
	10:45 - 11:00	0.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	11:00 - 11:15	0.25	DRILL	DOHS	DRLPR	Drill Open Slide 190 Azm
	11:15 - 11:45	0.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	11:45 - 12:00	0.25	DRILL	DOHS	DRLPR	Drill Open Slide 190 Azm.
	12:00 - 12:15	0.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	12:15 - 12:30	0.25	DRILL	DOHS	DRLPR	Drill Open Slide 190 Azm.
	12:30 - 13:00	0.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	13:00 - 13:15	0.25	DRILL	DOHS	DRLPR	Drill Open Slide 10L.
	13:15 - 13:45	0.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	13:45 - 14:00	0.25	DRILL	DOHS	DRLPR	Drill Open Slide H/S
	14:00 - 14:30	0.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	14:30 - 14:45	0.25	DRILL	DOHS	DRLPR	Drill Open Slide H/S
	14:45 - 15:15	0.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	15:15 - 15:30	0.25	DRILL	DOHS	DRLPR	Drill Open Slide H/S
	15:30 - 16:15	0.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	16:15 - 16:30	0.25	DRILL	DOHS	DRLPR	Drill Open Slide H/S
	16:30 - 17:15	0.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary . Switched to pump #1.Changing out Liner & piston on # 2
	17:15 - 17:30	0.25	DRILL	DOHS	DRLPR	Drill Open Slide H/S.
	17:30 - 18:15	0.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	18:15 - 18:30	0.25	DRILL	DOHS	DRLPR	Drill Open Slide
	18:30 - 19:15	0.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	19:15 - 19:30	0.25	DRILL	DOHS	DRLPR	Drill Open Slide
	19:30 - 20:15	0.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary . Switched back to pump # 2
	20:15 - 20:30	0.25	DRILL	DOHS	DRLPR	Drill Open Slide
	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
	21:30 - 22:45	1.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	22:45 - 23:15	0.50	DRILL	DOHS	DRLPR	Drill Open Slide
	23:15 - 00:00	0.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	00:00 - 00:15	0.25	DRILL	DOHS	DRLPR	Drill Open Slide 35L
	00:15 - 00:45	0.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	00:45 - 01:15	0.50	DRILL	DOHS	DRLPR	Drill Open Slide 35L
	01:15 - 02:30	1.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	02:30 - 03:00	0.50	DRILL	DOHS	DRLPR	Drill Open Slide 60L
	03:00 - 03:45	0.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	03:45 - 04:00	0.25	DRILL	DOHS	DRLPR	Drill Open Slide 100L
	04:00 - 04:30	0.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	04:30 - 05:00	0.50	DRILL	DOHS	DRLPR	Drill Open Slide 100L
	05:00 - 05:30	0.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	05:30 - 05:45	0.25	DRILL	DOHS	DRLPR	Drill Open Slide
	05:45 - 06:00	0.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
9/6/2003	06:00 - 06:45	0.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	06:45 - 07:00	0.25	DRILL	DOHS	DRLPR	Drill Open Slide 120R
	07:00 - 07:45	0.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	07:45 - 08:00	0.25	DRILL	DOHS	DRLPR	Drill Open Slide 110R
	08:00 - 08:45	0.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary

Operations Summary Report

Legal Well Name: INDIAN HILLS UNIT GC NO 56
 Common Well Name: INDIAN HILLS UNIT GC NO 56
 Event Name: ORIGINAL DRILLING
 Contractor Name: MCVAY DRILLING
 Rig Name: MCVAY DRILLING

Start: 8/26/2003
 Rig Release: 9/15/2003
 Rig Number: 4

Spud Date: 8/24/2003
 End:
 Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
9/6/2003	08:45 - 09:15	0.50	DRILL	DOHS	DRLPR	Drill Open Slide 115R
	09:15 - 10:00	0.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	10:00 - 10:15	0.25	DRILL	DOHS	DRLPR	Drill Open Slide 115R
	10:15 - 10:45	0.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	10:45 - 11:00	0.25	DRILL	DOHS	DRLPR	Drill Open Slide 120R
	11:00 - 12:00	1.00	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	12:00 - 12:30	0.50	DRILL	DOHS	DRLPR	Drill Open Slide 110R
	12:30 - 13:15	0.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	13:15 - 13:30	0.25	DRILL	DOHS	DRLPR	Drill Open Slide 120R
	13:30 - 14:00	0.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	14:00 - 14:30	0.50	DRILL	DOHS	DRLPR	Drill Open Slide 120R
	14:30 - 15:15	0.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	15:15 - 15:45	0.50	DRILL	DOHS	DRLPR	Drill Open Slide 120R
	15:45 - 16:15	0.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	16:15 - 16:45	0.50	DRILL	DOHS	DRLPR	Drill Open Slide 110R
	16:45 - 17:15	0.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	17:15 - 17:30	0.25	DRILL	DOHS	DRLPR	Drill Open Slide 90R
	17:30 - 18:45	1.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	18:45 - 19:00	0.25	SURV	MWD	DRLPR	Survey with MWD Tools. Check shot.
	19:00 - 19:45	0.75	DRILL	DOHS	DRLPR	Drill Open Slide 90R
	19:45 - 21:00	1.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	21:00 - 21:45	0.75	DRILL	DOHS	DRLPR	Drill Open Slide 90R
	21:45 - 23:15	1.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	23:15 - 23:45	0.50	DRILL	DOHS	DRLPR	Drill Open Slide 110R
	23:45 - 00:45	1.00	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	00:45 - 01:15	0.50	DRILL	DOHS	DRLPR	Drill Open Slide 105R
	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 110R
	02:30 - 03:30	1.00	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	03:30 - 03:45	0.25	DRILL	DOHS	DRLPR	Drill Open Slide 110R
	03:45 - 05:00	1.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	05:00 - 05:15	0.25	DRILL	DOHS	DRLPR	Drill Open Slide
	05:15 - 06:00	0.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
9/7/2003	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 - 07:30	1.00	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	07:30 - 07:45	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	07:45 - 08:15	0.50	DRILL	DOHS	DRLPR	Drill Open Slide 125R
	08:15 - 10:00	1.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	10:00 - 10:15	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	10:15 - 12:15	2.00	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	12:15 - 12:30	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	12:30 - 13:15	0.75	DRILL	DOHS	DRLPR	Drill Open Slide 165R
	13:15 - 15:15	2.00	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	15:15 - 15:30	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	15:30 - 17:45	2.25	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 180
	18:30 - 20:45	2.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	20:45 - 21:00	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	21:00 - 23:30	2.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	23:30 - 23:45	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	23:45 - 02:45	3.00	DRILL	DOHR	DRLPR	Drill Open Hole Rotary

Operations Summary Report

Legal Well Name: INDIAN HILLS UNIT GC NO 56
 Common Well Name: INDIAN HILLS UNIT GC NO 56
 Event Name: ORIGINAL DRILLING
 Contractor Name: MCVAY DRILLING
 Rig Name: MCVAY DRILLING

Start: 8/26/2003
 Rig Release: 9/15/2003
 Rig Number: 4
 Spud Date: 8/24/2003
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 Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
9/7/2003	02:45 - 03:00	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	03:00 - 03:15	0.25	DRILL	DOHS	DRLPR	Drill Open Slide 180
	03:15 - 06:00	2.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
9/8/2003	06:00 - 06:15	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	06:15 - 07:15	1.00	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	07:15 - 09:15	2.00	TRIP	MOTR	DRLPR	Trip for Motor
	09:15 - 10:15	1.00	TRIP	BBHD	DRLPR	Replaced motor & bit. Turned motor to 1.3 degree. Check motor. O.K.
	10:15 - 11:45	1.50	TRIP	BIT	DRLPR	TIH w/ motor #2 w/ new bit.
	11:45 - 12:00	0.25	DRILL	WSHR	DRLPR	Picked up 1 jt & wash down to btm 32' no fill.
	12:00 - 14:15	2.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary. Used pump #1
	14:15 - 14:30	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	14:30 - 15:00	0.50	DRILL	DOHS	DRLPR	Drill Open Slide 90R
	15:00 - 17:00	2.00	DRILL	DOHR	DRLPR	Drill Open Hole Rotary. Switched back to #2 pump.
	17:00 - 17:15	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	17:15 - 17:45	0.50	DRILL	DOHS	DRLPR	Drill Open Slide. 75R
	17:45 - 19:45	2.00	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	19:45 - 20:00	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	20:00 - 21:45	1.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	21:45 - 22:00	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	22:00 - 22:45	0.75	DRILL	DOHS	DRLPR	Drill Open Slide. H/S
	22:45 - 01:00	2.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	01:00 - 01:15	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	01:15 - 03:45	2.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	03:45 - 04:00	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	04:00 - 06:00	2.00	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
9/9/2003	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 - 07:00	0.50	DRILL	DOHS	DRLPR	Drill Open Slide. H/S
	07:00 - 09:15	2.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	09:15 - 09:30	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	09:30 - 12:00	2.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	12:00 - 12:15	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	12:15 - 15:00	2.75	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. 75L
	15:30 - 17:45	2.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	17:45 - 18:00	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	18:00 - 18:45	0.75	DRILL	DOHS	DRLPR	Drill Open Slide.
	18:45 - 21:15	2.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	21:15 - 21:30	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	21:30 - 00:00	2.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	00:00 - 00:45	0.75	SURV	MWD	DRLPR	Survey with MWD Tools. Tried to take survey no good. Worked w/ panel couldn't get f/ locking up to take survey.
	00:45 - 02:00	1.25	TRIP	BIT	DRLPR	TOOH to RT tool to move up hole.
	02:00 - 05:00	3.00	WAIT	EQUIP	DRLPR	Wait on Equipment. Panel is coming f/ Odessa.
	05:00 - 05:15	0.25	TRIP	BIT	DRLPR	Started in hole shut down. Computer still wouldn't run right.
	05:15 - 06:00	0.75	CHECK	OTHR	DRLPR	Perform Check Other. Checking computer still won't work.
9/10/2003	06:00 - 09:00	3.00	WAIT	Crew	DRLPR	Tried to get Directional panel working. No good. Waited on tech to get here to start up & program panel. (TIH w/ drill pipe moving RT tool up hole. 24 stands above HWD.)
	09:00 - 09:30	0.50	SURV	MWD	DRLPR	Picked up kelly & wash down to btm. No fill & took survey w/ MWD.
	09:30 - 10:00	0.50	DRILL	DOHS	DRLPR	Drill Open Slide. 105L
	10:00 - 12:30	2.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary

Operations Summary Report

Legal Well Name: INDIAN HILLS UNIT GC NO 56
 Common Well Name: INDIAN HILLS UNIT GC NO 56
 Event Name: ORIGINAL DRILLING
 Contractor Name: MCVAY DRILLING
 Rig Name: MCVAY DRILLING

Start: 8/26/2003
 Rig Release: 9/15/2003
 Rig Number: 4
 Spud Date: 8/24/2003
 End:
 Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
9/10/2003	12:30 - 12:45	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	12:45 - 15:30	2.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	15:30 - 15:45	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	15:45 - 18:30	2.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	18:30 - 18:45	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	18:45 - 19:15	0.50	DRILL	DOHS	DRLPR	Drill Open Slide. 60L
	19:15 - 22:00	2.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	22:00 - 22:15	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	22:15 - 00:30	2.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	00:30 - 00:45	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	00:45 - 03:00	2.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	03:00 - 03:15	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	03:15 - 05:30	2.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	05:30 - 05:45	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	05:45 - 06:00	0.25	DRILL	DOHS	DRLPR	Drill Open Slide
	06:00 - 08:00	2.00	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
9/11/2003	08:00 - 08:15	0.25	SURV	GYRO	DRLPR	Survey with GYRO system
	08:15 - 08:45	0.50	DRILL	DOHS	DRLPR	Drill Open Slide
	08:45 - 11:15	2.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	11:15 - 11:30	0.25	SURV	GYRO	DRLPR	Survey with GYRO system
	11:30 - 12:30	1.00	DRILL	DOHS	DRLPR	Drill Open Slide
	12:30 - 14:45	2.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	14:45 - 15:00	0.25	DRILL	DOHS	DRLPR	Drill Open Slide
	15:00 - 15:30	0.50	EQUIP	RURD	DRLPR	Ck pump eff.- # 1- pump @ 89%(Duplex) #2 pump 88% Triplex
	15:30 - 18:00	2.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary. Motor locked up.
	18:00 - 20:30	2.50	TRIP	MOTR	DRLPR	Trip for Motor
	20:30 - 21:30	1.00	TRIP	BHA	DRLPR	BHA. L/D Motor.(Would not turn) Bit- Cone # 1- 6 broken compacts heal-row, 4 broke on #2, 4 broke on # 3. Seals good. Ran new bit. PU new motor. Tested.
	21:30 - 00:30	3.00	TRIP	BIT	DRLPR	Trip in / out for Bit. Washed to bottom. No fill.
	00:30 - 01:45	1.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	01:45 - 02:00	0.25	SURV	GYRO	DRLPR	Survey with GYRO system
	02:00 - 04:00	2.00	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	04:00 - 04:15	0.25	SURV	GYRO	DRLPR	Survey with GYRO system
9/12/2003	04:15 - 06:00	1.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	06:00 - 07:15	1.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	07:15 - 07:30	0.25	SURV	GYRO	DRLPR	Survey with GYRO system
	07:30 - 08:15	0.75	DRILL	DOHS	DRLPR	Drill Open Slide
	08:15 - 11:45	3.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	11:45 - 12:00	0.25	SURV	GYRO	DRLPR	Survey with GYRO system
	12:00 - 12:45	0.75	DRILL	DOHS	DRLPR	Drill Open Slide
	12:45 - 14:30	1.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	14:30 - 14:45	0.25	SURV	GYRO	DRLPR	Survey with GYRO system
	14:45 - 15:30	0.75	DRILL	DOHS	DRLPR	Drill Open Slide
	15:30 - 18:00	2.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	18:00 - 18:15	0.25	SURV	GYRO	DRLPR	Survey with GYRO system
	18:15 - 19:15	1.00	DRILL	DOHS	DRLPR	Drill Open Slide
	19:15 - 22:00	2.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	22:00 - 22:15	0.25	SURV	GYRO	DRLPR	Survey with GYRO system
	22:15 - 23:15	1.00	DRILL	DOHS	DRLPR	Drill Open Slide
	23:15 - 02:00	2.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	02:00 - 02:15	0.25	SURV	GYRO	DRLPR	Survey with GYRO system
	02:15 - 06:00	3.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary

Marathon Oil Company
Operations Summary Report

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Legal Well Name: INDIAN HILLS UNIT GC NO 56
Common Well Name: INDIAN HILLS UNIT GC NO 56
Event Name: ORIGINAL DRILLING
Contractor Name: MCVAY DRILLING
Rig Name: MCVAY DRILLING

Spud Date: 8/24/2003
End:
Group:

Start: 8/26/2003
Rig Release: 9/15/2003
Rig Number: 4

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
9/13/2003	06:00 - 06:15	0.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	06:15 - 06:30	0.25	SURV	GYRO	DRLPR	Survey with GYRO system
	06:30 - 07:00	0.50	DRILL	DOHS	DRLPR	Drill Open Slide
	07:00 - 08:15	1.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	08:15 - 08:30	0.25	SURV	GYRO	DRLPR	Survey with GYRO system
	08:30 - 10:45	2.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	10:45 - 11:00	0.25	SURV	GYRO	DRLPR	Survey with GYRO system
	11:00 - 13:00	2.00	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	13:00 - 13:15	0.25	SURV	GYRO	DRLPR	Survey with GYRO system
	13:15 - 14:15	1.00	DRILL	DOHS	DRLPR	Drill Open Slide
	14:15 - 15:15	1.00	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	15:15 - 15:30	0.25	SURV	GYRO	DRLPR	Survey with GYRO system
	15:30 - 16:00	0.50	DRILL	DOHS	DRLPR	Drill Open Slide
	16:00 - 16:45	0.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	16:45 - 17:00	0.25	SURV	GYRO	DRLPR	Survey with GYRO system
	17:00 - 17:30	0.50	DRILL	DOHS	DRLPR	Drill Open Slide
	17:30 - 18:30	1.00	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	18:30 - 19:30	1.00	DRILL	DOHS	DRLPR	Drill Open Slide
	19:30 - 20:30	1.00	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	20:30 - 20:45	0.25	SURV	GYRO	DRLPR	Survey with GYRO system
	20:45 - 21:45	1.00	DRILL	DOHS	DRLPR	Drill Open Slide
	21:45 - 22:30	0.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	22:30 - 22:45	0.25	SURV	GYRO	DRLPR	Survey with GYRO system
	22:45 - 23:15	0.50	DRILL	DOHS	DRLPR	Drill Open Slide
	23:15 - 00:00	0.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	00:00 - 00:15	0.25	SURV	GYRO	DRLPR	Survey with GYRO system
	00:15 - 01:00	0.75	DRILL	DOHS	DRLPR	Drill Open Slide
	01:00 - 01:30	0.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	01:30 - 01:45	0.25	SURV	GYRO	DRLPR	Survey with GYRO system
	01:45 - 02:45	1.00	DRILL	DOHS	DRLPR	Drill Open Slide
	02:45 - 03:30	0.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	03:30 - 03:45	0.25	SURV	GYRO	DRLPR	Survey with GYRO system
	03:45 - 04:00	0.25	DRILL	DOHS	DRLPR	Drill Open Slide
	04:00 - 04:45	0.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	04:45 - 05:00	0.25	SURV	GYRO	DRLPR	Survey with GYRO system
9/14/2003	05:00 - 06:00	1.00	DRILL	DOHS	DRLPR	Drill Open Slide
	06:00 - 07:00	1.00	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	07:00 - 07:15	0.25	SURV	GYRO	DRLPR	Survey with GYRO system
	07:15 - 09:15	2.00	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	09:15 - 09:30	0.25	SURV	GYRO	DRLPR	Survey with GYRO system
	09:30 - 11:30	2.00	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	11:30 - 11:45	0.25	SURV	GYRO	DRLPR	Survey with GYRO system
	11:45 - 12:15	0.50	DRILL	DOHS	DRLPR	Drill Open Slide
	12:15 - 14:00	1.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	14:00 - 14:15	0.25	SURV	GYRO	DRLPR	Survey with GYRO system
	14:15 - 16:00	1.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	16:00 - 16:15	0.25	SURV	GYRO	DRLPR	Survey with GYRO system
	16:15 - 17:30	1.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary. 50% returns @ 7495'.
	17:30 - 17:45	0.25	LSCIRC	PSPT	DRLPR	Pumped 50 bbl pill. 80 vis 20#/bbl of LCM.
	17:45 - 18:45	1.00	DRILL	DOHR	DRLPR	Drill Open Hole Rotary. 50% returns @ 7495'. Lost all returns @ 7590'. Dry drilled.
	18:45 - 19:00	0.25	SURV	GYRO	DRLPR	Survey with GYRO system
	19:00 - 20:30	1.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary. No returns.

Operations Summary Report

Legal Well Name: INDIAN HILLS UNIT GC NO 56
 Common Well Name: INDIAN HILLS UNIT GC NO 56
 Event Name: ORIGINAL DRILLING
 Contractor Name: MCVAY DRILLING
 Rig Name: MCVAY DRILLING

Start: 8/26/2003
 Rig Release: 9/15/2003
 Rig Number: 4

Spud Date: 8/24/2003
 End:
 Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
9/14/2003	19:00 - 20:30	1.50	DRILL	DOHR	DRLPR	
	20:30 - 20:45	0.25	SURV	GYRO	DRLPR	Survey with GYRO system
	20:45 - 22:15	1.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary. No returns.
	22:15 - 22:30	0.25	SURV	GYRO	DRLPR	Survey with GYRO system
	22:30 - 23:45	1.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary. No returns.
	23:45 - 00:15	0.50	DRILL	DOHS	DRLPR	Drill Open Slide
	00:15 - 01:15	1.00	SURV	GYRO	DRLPR	Survey with GYRO system
	01:15 - 01:30	0.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary. No returns.
	01:30 - 03:00	1.50	SURV	GYRO	DRLPR	Survey with GYRO system
	03:00 - 03:15	0.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary. No returns.
	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. No returns.
9/15/2003	06:00 - 08:15	2.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	08:15 - 08:30	0.25	SURV	GYRO	DRLPR	Survey with GYRO system
	08:30 - 11:15	2.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	11:15 - 11:30	0.25	SURV	GYRO	DRLPR	Survey with GYRO system
	11:30 - 14:30	3.00	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	14:30 - 14:45	0.25	SURV	GYRO	DRLPR	Survey with GYRO system
	14:45 - 15:30	0.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary No returns.
	15:30 - 16:15	0.75	CIRC	CLN	DRLPR	Pumped 40 bbl sweep.
	16:15 - 17:30	1.25	TRIP	WTRP	DRLPR	Wiper Trip. No major drag or fill. (10 stds)
	17:30 - 18:30	1.00	CIRC	CLN	DRLPR	Spotted 60 bbl pill on bottom. Switched t/ completion report.

Casing Report

Legal Well Name: INDIAN HILLS UNIT GC NO 56
 Common Well Name: INDIAN HILLS UNIT GC NO 56
 Event Name: ORIGINAL DRILLING

Report #: 1
 Start: 8/26/2003

Spud Date: 8/24/2003
 Report Date: 9/2/2003
 End:

General Information

String Type:	Permanent Datum: KELLY BUSHING	Hole Size:	Hole TMD: 1,208.0 (ft)
Hole TVD: 1,208.0 (ft)	KB-Datum: 0.00 (ft)	Water TMD:	Str Wt on Slips: (lb)
Ground Level: 3,667.00 (ft)	CF Elevation: (ft)	Liner Overlap: (ft)	Max Hole Angle: 0.40 (°)
Circ Hours: (hr)	Mud Lost: (bbl)	KB to Cutoff: (ft)	Days From Spud: 1 (days)

Casing Flange / Wellhead

Manufacturer: WOOD GROUP	Model: FMC C-22	Top Hub/Flange: 11.000 (in) / 3,000 (psi)
Hanger Model: 11" x 9 5/8"	Packoff Model:	BTM Hub/Flange: 9.625 (in) / (psi)

Actual TMD Set: 1,208.200 (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 FLOAT SHOE	9.625	36.0	K-55	8.765	8 ROUND	1	1.100						NEW		8.921	
CASING JOINT(S)	9.625	36.0	K-55	8.765	8 ROUND	1	45.050	1.10					NEW		8.921	
CASING FLOAT COLLA	9.625	36.0	K-55	8.765	8 ROUND	1	1.100	46.15					NEW		8.921	
CASING JOINT(S)	9.625	36.0	K-55	8.765	8 ROUND	26	1,160.950	47.25					NEW		8.921	

Non-Integral Casing Accessories

Accessory	Manufacturer	Number	Spacing (ft)	Interval		How Fixed
				Top (ft)	Bottom (ft)	
CENTRALIZER	GEMCO	11	90.0	45.0	1,195.0	CLAMPED

Cementing Report

Legal Well Name: INDIAN HILLS UNIT GC NO 56

Common Well Name: INDIAN HILLS UNIT GC NO 56

Event Name: ORIGINAL DRILLING

Report #: 1

Start: 8/26/2003

Spud Date: 8/24/2003

Report Date: 9/2/2003

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: 1,208.0 (ft)	SQ TMD: (ft)	TMD Set:	Top Set: (ft)
Date Set: 9/2/2003	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: 22:45	Disp Avg Rate: 4.00 (bbl/min)	Returns: 50% returns
Volume Excess %: 100.00	Start Slurry Displ: :	Disp Max Rate: 6.00 (bbl/min)	Total Mud Lost: (bbl)
Meas. From: KB	Start Displ: :	Bump Plug: Y	Cmt Vol to Surf: 25.00 (bbl)
Time Circ Prior	End Pumping: :	Press Prior: 900 (psi)	
To Cementing: 1.00	End Pump Date:	Press Bumped: 1,500 (psi)	Ann Flow After: N
Mud Circ Rate: 250 (gpm)	Top Plug: N	Press Held: 5 (min)	Mixing Method:
Mud Circ Press: 300 (psi)	Bottom Plug: Y	Float Held: Y	Density Meas By:

Mud Data

Type: AIR/GAS 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: 76 (°F)	Bottom Hole Static Temperature: (°F)
Displacement Fluid Type: FRESH WATER	Density: 8.4 (ppg) Volume: 138.00 (bbl)

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

Fluid Type: LEAD	Description: FOAM	Class: CLASS C	Purpose: FILLER CEM
Slurry Interval: (ft) To: 837.00 (ft)	Cmt Vol: 600 (sk)	Density: 14.8 (ppg)	Yield: 1.34 (ft ³ /sk)
Water Source: Frac-tanks	Slurry Vol: 10.0 (bbl)	Water Vol: 114.0 (bbl)	Other Vol: ()
			Mix Water: 6.36 (gal/sk)
			Foam Job: Y

Test Data

	Time	Temp	Pressure
Thickening Time: 3.00	Temperature: (°F)	Compressive Strength 1: 12.00	(°F) 600 (psi)
Free Water: (%)	Temperature: (°F)	Compressive Strength 2: 24.00	(°F) 1,950 (psi)
Fluid Loss: 800.0 (cc)	Temperature: (°F)		
Fluid Loss Pressure: (°F)			

Cementing Report

Legal Well Name: INDIAN HILLS UNIT GC NO 56
 Common Well Name: INDIAN HILLS UNIT GC NO 56
 Event Name: ORIGINAL DRILLING

Report #: 1
 Start: 8/26/2003

Spud Date: 8/24/2003
 Report Date: 9/2/2003
 End:

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

Trade Name	Type	Concentration	Units	Liquid Conc.	Units
1.5% ZoneSeal		1.50			% BWOC
CALC2	ACCELERATOR	2.00			% BWOC

Stage No: 1 Slurry No: 2 of 3**Slurry Data**

Fluid Type: TAIL Description: NEAT Class: CLASS C Purpose: SHOE INTEG
 Slurry Interval: (ft) To: (ft) Cmt Vol: 150 (sk) Density: 14.8 (ppg) Yield: 1.34 (ft³/sk) Mix Water: 6.34 (gal/sk)
 Water Source: Frac tanks Slurry Vol: (bbl) Water Vol: 36.0 (bbl) Other Vol: () Foam Job: N

Test Data

Thickening Time: Temperature: (°F) Compressive Strength 1: 12.00 (°F) 1,800 (psi)
 Free Water: (%) Temperature: (°F) Compressive Strength 2: 24.00 (°F) 3,200 (psi)
 Fluid Loss: (cc) Temperature: (°F)
 Fluid Loss Pressure: (°F)

Stage No: 1 Slurry No: 2 of 3 - Additives

Trade Name	Type	Concentration	Units	Liquid Conc.	Units
CALC2	ACCELERATOR	2.00			% BWOC
Cal-Seal		10.00			% BWOC

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

Fluid Type: OTHER Description: BENTONITE ACCEL. Class: CLASS C Purpose: CONDUCTOR
 Slurry Interval: (ft) To: (ft) Cmt Vol: 75 (sk) Density: 14.8 (ppg) Yield: 1.32 (ft³/sk) Mix Water: 14.80 (gal/sk)
 Water Source: Slurry Vol: (bbl) Water Vol: (bbl) Other Vol: () Foam Job: N

Test Data

Thickening Time: Temperature: (°F) Compressive Strength 1: 12.00 (°F) 1,800 (psi)
 Free Water: (%) Temperature: (°F) Compressive Strength 2: 24.00 (°F) 3,200 (psi)
 Fluid Loss: 200.0 (cc) Temperature: (°F)
 Fluid Loss Pressure: (°F)

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

Trade Name	Type	Concentration	Units	Liquid Conc.	Units
CALC2	ACCELERATOR	2.00			% BWOC
Cal-Seal		10.00			% BWOC

Cementing Report

Legal Well Name: INDIAN HILLS UNIT GC NO 56
Common Well Name: INDIAN HILLS UNIT GC NO 56
Event Name: ORIGINAL DRILLING

Report #: 1
Start: 8/26/2003
Spud Date: 8/24/2003
Report Date: 9/2/2003
End:

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

Test Press: 2,000 (psi)
For: 10 (min)
Cement Found between
Shoe and Collar: Y

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

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

Log/Survey Evaluation**Interpretation Summary**

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

Cement Top: 100 (ft)
How Determined: Water Volume/Filled
TOC Sufficient: N
Job Rating:
If Unsuccessful Detection Indicator:
Remedial Cementing Required: N
Number of Remedial Squeezes:

Marathon Oil Company
Operations Summary Report

Page 1 of 2

Legal Well Name: INDIAN HILLS UNIT GC NO 56
Common Well Name: INDIAN HILLS UNIT GC NO 56
Event Name: ORIGINAL COMPLETION
Contractor Name: MCVAY DRILLING
Rig Name: MCVAY DRILLING

Start: 8/26/2003
Rig Release: 9/15/2003
Rig Number: 4
Spud Date: 8/24/2003
End:
Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
9/15/2003	18:30 - 03:00	8.50	TRIP	LDDP	CSGPRO	LD DP DC's & BHA.
	03:00 - 06:00	3.00	CSG	RUN	CSGPRO	Safety meeting. RU csg crew. Running 7" 26# & 23# Casing
9/16/2003	06:00 - 11:00	5.00	CSG	RUN	CSGPRO	Ran Float shoe, shoe jt, float collar, 38 jts of 7", 26#, ECP/DV, 39 jts of 7"-26#, 99 jts of 7"-23#, 2- jts of 26#.
	11:00 - 14:00	3.00	CIRC	FILL	CSGPRO	Washed the last 3 jts to bottom @ 8310'. (tight hole) Well flowed on last jt. Shut in. Bled off gas bubble. Landed Float collar @ 8261', DV tool @ 6480'. Pumped on csg while rigging up HES.
	14:00 - 16:15	2.25	CEMT	PRIM	CSGPRO	Pumped 50,000 SCF/N2, 10 bbls of 10% CC water, 10 bbl water spacer, 24 bbls of Super-Fush, 10 bbl water spacer, 47 bbls (100 sks of Acid Soluble cmt, 37 bbls (160 sks) Premuim, 36 bbls (120 sks) of Super "H". Displaced w/ 321 bbls of water. Set ECP 3200 psi.
	16:15 - 18:30	2.25	CEMT	PRIM	CSGPRO	Dropped bomb. Opened DV tool @ 6480'. (Switched t/ rig pump) Circ 100 sks on 1 st stage.Switched to steel pits. Monitor gain/loss. No loss of fluid.
	18:30 - 21:30	3.00	CEMT	PRIM	CSGPRO	Cmt 2 nd stage w/ 580 sks of Super "H" tailed w/ 100 sks of Premuim Plus.Circ 40 sks to pit. Good returns until last 20 bbls into displacement. FL in BOP. Not dropping.
	21:30 - 00:30	3.00	NUND	DBOP	CSGPRO	ND BOP. Set 7" slips, 150K, Cut off 7" csg. Snubbed out 11" BOP. NU 11"3M x 7 1/16" 3M Tubing head. Tested t/ 3000 psi.
	00:30 - 02:00	1.50	RIG	DMOB	CSGPRO	Cleaned pits. Released Rig @ 0200 hrs.9/16 Will move rig on Thursday.
9/18/2003	06:30 - 18:30	12.00	RIG		OTHER	Set rig anchors and MIRU service unit. NU BOP. PU bit and scraper and C-1 2-7/8" EUE 8rd L-80 tubing. Tag DV tool @ 6495' and drill out same. CIH and tag PBTD @ 8260'. Circulate hole clean. SWIFN
9/19/2003	06:30 - 18:30	12.00	RIG			Tailgate safety meeting. POH w/bit and scraper. RU Baker Atlas to run Spectral Gamma Ray, X-Mac and Neutron logs. Tailgate safety meeting on wireline ops. RIH w/logging tools and tag PBTD @ 8257' WLM. Ran 2000' of of X-Mac from PBTD and GR/Neutron to surface. CBL showed no cement behind pipe from PBTD to 8082' with good cement beginning at ~8046'. Engineering decided to not pressure casing for micro-annulus becasue bottom perf will be >50' above the good cement. RD loggers. RIH w/openended tbg. ND BOP and landed tubing with tubing flange. RDMO. Will rig back up on Wednesday to continue with completion after surface work is completed and perforations are picked.
9/23/2003	06:30 - 08:30	2.00	RIG	MIRU	MIRU	Move in / RU Rig, Workover Unit, etc. ND WH. NU BOPs. Function test. OK
	08:30 - 11:30	3.00	CLEAN	WELL	RCMP	RU Halliburton acid equipment. Held pre - job safety meeting. Loaded casing w/ 1000 gallons of 15% HCl spotted to bottom. Reverse circulated (pickled) casing and tbg. Circulated well clean. RD Halliburton.
	11:30 - 13:30	2.00	PLRNR	PTBG	RCMP	POH w/ 264 jts of 2 7/8" L-80 tubing. Installed 7" 3M "frac" valve. Closed and SDFN
9/24/2003	06:30 - 16:30	10.00	PERF	WLNC	RCMP	PJSM. RU Baker Atlas. Tested lubricator to 1000#. RIH w/ first gun and gamma tool. Correlated correct depth with cased hole CNL dated 9/19/2003. Perforated as follows: Gun 1) 7957-7976' 2) 7933'-7948 3) 7918'-7933' 4) 7882'-7896' 5) 7862'-7882' 6) 7827'-7851' 7) 7778'-7802' 8) 7740'-7764' 9) 7715'-7731' 10) 7699'-7615' @ 4JSPF in 120 deg phasing using 3 3/8" slick guns and 23 gram charges. All shots fired. RD Baker Atlas. PU PPI pks, assembled and RIH on killstring. SDFN
9/25/2003	06:30 - 13:30	7.00	PKRPLG		RCMP	PJSM. RIH w/ PPI to locate collar at 7988'. PUH above perfs. Set and function test packers. SDFN Halliburton unable to stimulate today.

Operations Summary Report

Legal Well Name: INDIAN HILLS UNIT GC NO 56

Common Well Name: INDIAN HILLS UNIT GC NO 56

Event Name: ORIGINAL COMPLETION

Contractor Name: MCVAY DRILLING

Rig Name: MCVAY DRILLING

Start: 8/26/2003

Rig Release: 9/15/2003

Rig Number: 4

Spud Date: 8/24/2003

End:

Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
9/26/2003	05:30 - 15:00	9.50	STIM	ACID	STIM	RU Halliburton. Mixed and titrated acid. PJSM. Ran in hole w/ PPI pkr to bottom setting @ 7976.5'. Dropped retrievable valves and function tested. PUH stimulating new perms from 7975'-7699' w/ 100 gals/ft of 17% CCA in 100 settings total of 20,000 gals of CCA sour acid. Avg brk 1905#, Avg treat - 1560#, Max treat psi - 2980# Min treat - 885#. Max break psi @ 2991 and min break @ 900 psig. Fished retrievable valves. RD HES.
	15:00 - 19:30	4.50	PKRPLG		RCMP	POOH w/ tbg and PPI packers. LD PPI packers. PU 7" RBP and RIH to 3645'. Set RBP. OK Stung back in to RBP and opened bypass valve. SDWE

Casing Report

Legal Well Name: INDIAN HILLS UNIT GC NO 56
 Common Well Name: INDIAN HILLS UNIT GC NO 56
 Event Name: ORIGINAL COMPLETION

Report #: 1
 Start: 8/26/2003

Spud Date: 8/24/2003
 Report Date: 9/15/2003
 End:

General Information

String Type: PRODUCTION CASING #1	Permanent Datum: KELLY BUSHING	Hole Size:	Hole TMD: 8,310.0 (ft)
Hole TVD: 8,077.0 (ft)	KB-Datum: 0.00 (ft)	Water TMD:	Str Wt on Slips: (lb)
Ground Level: 3,667.00 (ft)	CF Elevation: (ft)	Liner Overlap: (ft)	Max Hole Angle: 14.00 (°)
Circ Hours: 1.50 (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: 11.000 (in) / 3,000 (psi)
Hanger Model: 11"3M	Packoff Model:	BTM Hub/Flange: 9.625 (in) / 3,000 (psi)

Actual TMD Set: 8,310.030 (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	6.151	8 ROUND	2	94.820		3,410				NEW		6.276	
CASING JOINT(S)	7.000	23.0	K-55	6.241	8 ROUND	100	4,585.170	94.82	3,410				NEW		6.366	
CASING JOINT(S)	7.000	26.0	K-55	6.151	8 ROUND	39	1,798.930	4,679.99	3,410	N			NEW		6.276	
STAGE COLLAR	7.000	26.0	K-55	6.151	8 ROUND	1	2.500	6,478.92					NEW		6.276	
ECP	7.000	26.0	K-55	6.151	8 ROUND	1	10.520	6,481.42					NEW		6.276	
PUP JOINT	7.000	26.0	K-55	6.151	8 ROUND	1	7.000	6,491.94					NEW		6.276	
CASING JOINT(S)	7.000	26.0	K-55	6.151	8 ROUND	38	1,761.510	6,498.94	3,410				NEW		6.276	
CASING FLOAT COLLA	7.000	26.0	K-55	6.151	8 ROUND		1.900	8,260.45	3,410	Y	GEMCO		NEW		6.276	
CASING JOINT(S)	7.000	26.0	K-55	6.151	8 ROUND	1	45.780	8,262.35	3,410	Y			NEW		6.276	
CASING FLOAT SHOE	7.000	26.0	K-55	6.151	8 ROUND		1.900	8,308.13	3,410	Y	GEMCO		NEW		6.276	

Non-Integral Casing Accessories

Accessory	Manufacturer	Number	Spacing (ft)	Interval		How Fixed
				Top (ft)	Bottom (ft)	
CENTRALIZER	GEMCO	26	45.0	7,600.0	8,500.0	CLAMPED

Marathon Oil Company

Cementing Report

Page 1 of 4

Legal Well Name: INDIAN HILLS UNIT GC NO 56	Report #: 1	Spud Date: 8/24/2003
Common Well Name: INDIAN HILLS UNIT GC NO 56	Start: 8/26/2003	Report Date: 9/15/2003
Event Name: ORIGINAL COMPLETION		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: 8,310.0 (ft)	SQ TMD: (ft)	TMD Set:	Top Set: (ft)
Date Set: 9/15/2003	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:
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: 205 (lb)	Drag Down: 180 (lb)

Stage No: 1 of 3

Type: PRIM CMT 1ST STAGE	Start Mix Cmt: 15:00	Disp Avg Rate: 7.00 (bbl/min)	Returns: 100%
Volume Excess %: 100.00	Start Slurry Displ: :	Disp Max Rate: 5.00 (bbl/min)	Total Mud Lost: (bbl)
Meas. From:	Start Displ: :	Bump Plug: Y	Cmt Vol to Surf: 47.00 (bbl)
Time Circ Prior	End Pumping: :	Press Prior: 1,500 (psi)	
To Cementing: 1.45	End Pump Date:	Press Bumped: 3,300 (psi)	Ann Flow After: N
Mud Circ Rate: 388 (gpm)	Top Plug: N	Press Held: 5 (min)	Mixing Method:
Mud Circ Press: 1,500 (psi)	Bottom Plug: N	Float Held: Y	Density Meas By:

Mud Data

Type: FRESH WATER Density: 8.7 (ppg) Visc: 45 (s/qt) PV/YP: (cp)/8 (lb/100ft²) Gels 10 sec: (lb/100ft²) Gels 10 min: (lb/100ft²)

Bottom Hole Circulating Temperature: 126 (°F) Bottom Hole Static Temperature: (°F)

Displacement Fluid Type: FRESH WATER Density: 8.3 (ppg) Volume: 334.00 (bbl)

Stage No: 1 Slurry No: 1 of 1

Slurry Data

Fluid Type: LEAD	Description: Acid Soluble	Class: CLASS H	Purpose: FILLER CEM
Slurry Interval: (ft) To: (ft)	Cmt Vol: 100 (sk)	Density: 15.0 (ppg)	Yield: 2.55 (ft ³ /sk)
Water Source: 7-Rivers	Slurry Vol: (bbl)	Water Vol: 47.0 (bbl)	Other Vol: ()
			Mix Water: 11.10 (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)			

Marathon Oil Company

Cementing Report

Page 2 of 4

Legal Well Name: INDIAN HILLS UNIT GC NO 56	Report #: 1	Spud Date: 8/24/2003
Common Well Name: INDIAN HILLS UNIT GC NO 56	Start: 8/26/2003	Report Date: 9/15/2003
Event Name: ORIGINAL COMPLETION		End:

Stage No: 2 of 3

Type: PRIM CMT 2ND STAGE	Start Mix Cmt: 06:04	Disp Avg Rate: 5.00 (bbl/min)	Returns: 100%
Volume Excess %: 100.00	Start Slurry Displ: :	Disp Max Rate: 5.00 (bbl/min)	Total Mud Lost: (bbl)
Meas. From:	Start Displ: :	Bump Plug: Y	Cmt Vol to Surf: 47.00 (bbl)
Time Circ Prior	End Pumping: :	Press Prior: 1,500 (psi)	
To Cementing: 9.00	End Pump Date:	Press Bumped: 3,300 (psi)	Ann Flow After: Y
Mud Circ Rate: 388 (gpm)	Top Plug: N	Press Held: (min)	Mixing Method:
Mud Circ Press: (psi)	Bottom Plug: N	Float Held: Y	Density Meas By:

Mud Data

Type: FRESH WATER Density: 8.7 (ppg) Visc: 45 (s/qt) PV/YP: (cp)/8 (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 1

Slurry Data

Fluid Type: LEAD	Description: FOAM	Class: FOAMED	Purpose: FILLER CEM
Slurry Interval: 6,500.00 (ft) To: 8,310.00 (ft) Cmt Vol: 120 (sk)	Density: 13.0 (ppg)	Yield: 2.00 (ft ³ /sk)	Mix Water: 5.20 (gal/sk)
Water Source: 7-Rivers	Slurry Vol: 10.0 (bbl)	Water Vol: 116.0 (bbl)	Other Vol: ()
			Foam Job: Y

Test Data

		Time	Temp	Pressure
Thickening Time:	Temperature: (°F)	Compressive Strength 1: 12.00	(°F)	1,150 (psi)
Free Water: (%)	Temperature: (°F)	Compressive Strength 2: 24.00	(°F)	2,100 (psi)
Fluid Loss: (cc)	Temperature: (°F)			
Fluid Loss Pressure: (°F)				

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

Trade Name	Type	Concentration	Units	Liquid Conc.	Units
Zone Sealant		2.00			% BWOC

Stage No: 3 of 3

Type: PRIM CMT 3RD STAGE	Start Mix Cmt: :	Disp Avg Rate: 5.00 (bbl/min)	Returns: 100%
Volume Excess %: 60.00	Start Slurry Displ: :	Disp Max Rate: 5.00 (bbl/min)	Total Mud Lost: (bbl)
Meas. From:	Start Displ: :	Bump Plug: Y	Cmt Vol to Surf: 43.00 (bbl)
Time Circ Prior	End Pumping: :	Press Prior: 1,500 (psi)	
To Cementing:	End Pump Date:	Press Bumped: 3,090 (psi)	Ann Flow After: N
Mud Circ Rate: 388 (gpm)	Top Plug: Y	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: 8.7 (ppg) Visc: 45 (s/qt) PV/YP: (cp)/8 (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: 8.3 (ppg) Volume: 334.00 (bbl)

Marathon Oil Company

Cementing Report

Page 3 of 4

Legal Well Name: INDIAN HILLS UNIT GC NO 56
 Common Well Name: INDIAN HILLS UNIT GC NO 56
 Event Name: ORIGINAL COMPLETION

Report #: 1
 Start: 8/26/2003

Spud Date: 8/24/2003
 Report Date: 9/15/2003
 End:

Stage No: 3 Slurry No: 1 of 3

Slurry Data

Fluid Type: TAIL Description: OTHER Class: CLASS H Purpose: SHOE INTEG
 Slurry Interval: 6,980.00 (ft) To: 8,315.00 (ft) Cmt Vol: 120 (sk) Density: 13.0 (ppg) Yield: 1.67 (ft³/sk) Mix Water: 8.20 (gal/sk)
 Water Source: Corky Glenn Slurry Vol: (bbl) Water Vol: 36.0 (bbl) Other Vol: () Foam Job: N

Test Data

	Temperature: (°F)	Time	Temp	Pressure
Thickening Time:		Compressive Strength 1: 12.00	(°F)	150 (psi)
Free Water: (%)	Temperature: (°F)	Compressive Strength 2: 24.00	(°F)	600 (psi)
Fluid Loss: 1,000.0 (cc)	Temperature: (°F)			
Fluid Loss Pressure: (°F)				

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

Trade Name	Type	Concentration	Units	Liquid Conc.	Units
CFR-3		4.00			% BWOC
Gilsonite		5.00			lbs/sack
HR-344		5.00			% BWOC
HR-7		0.20			% BWOC
Salt		1.00			lbs/sack

Stage No: 3 Slurry No: 2 of 3

Slurry Data

Fluid Type: LEAD Description: OTHER Class: CLASS H Purpose: SHOE INTEG
 Slurry Interval: (ft) To: 5,180.00 (ft) Cmt Vol: 580 (sk) Density: 11.9 (ppg) Yield: 2.46 (ft³/sk) Mix Water: 11.90 (gal/sk)
 Water Source: Slurry Vol: (bbl) Water Vol: (bbl) Other Vol: () Foam Job: N

Test Data

	Temperature: (°F)	Time	Temp	Pressure
Thickening Time:		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: 3 Slurry No: 2 of 3 - Additives

Trade Name	Type	Concentration	Units	Liquid Conc.	Units
3#/sl KCL		3.00			lbs/sack

Cementing Report

Legal Well Name: INDIAN HILLS UNIT GC NO 56 Report #: 1 Spud Date: 8/24/2003
 Common Well Name: INDIAN HILLS UNIT GC NO 56 Start: 8/26/2003 Report Date: 9/15/2003
 Event Name: ORIGINAL COMPLETION End:

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

Fluid Type: TAIL Description: Premuim Plus Class: CLASS H Purpose: FILLER CEM
 Slurry Interval: 5,180.00 (ft) To: 6,480.00 (ft) Cmt Vol: 100 (sk) Density: 14.8 (ppg) Yield: 1.32 (ft³/sk) Mix Water: 5.30 (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)			

Stage No: 3 Slurry No: 3 of 3 - 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

Retuns 200 bls in displacmnt of 321 bbls. Circ. 120 sks to pits on 1 st stage. Circ 40 sks on 2 nd stage. Lost returns with 20 bbls of displacement left. FL @ surface. Was not dropping.