Form 3160-5
(August 1999)

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

S

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE - Other instructions on reverse side

5. Lease Serial No.
NM-06953

6. If Indian, Allottee or Tribe Name
N/A

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

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.
Federal "C" 35 # 4

2. Name of Operator
Marathon Oil Company

9. API Well No.
30-015-32453

3a. Address
P.O. Box 552 Midland, TX 79702

3b. Phone No. *(include area code)*
915-687-8360

10. Field and Pool, or Exploratory Area
Indian Basin U. P. Assoc.

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec. 35, T-21-S, R-23-E SHL @ 2310' FNL & 1980' FEL
Eddy Co. N.M. BHL @ 2540' FNL & 660' FEL

11. County or Parish, State
Eddy N.M.

RECEIVED
APR 2003
OCD - ARTESIA

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

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ 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 recomplete 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 recompletion 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 find the attached end of well report for the Federal C-35 # 4.

ACCEPTED FOR RECORD
APR 14 2003
ALEXIS C. SWOBODA
PETROLEUM ENGINEER

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

Title
Engineer Technician

Signature: Jerry Fletcher

Date 4/10/03

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.

Marathon Oil Company

Operations Summary Report

Legal Well Name: FED "C" 35 NO. 4
Common Well Name: FED "C" 35 NO. 4 — Spud Date: 3/20/2003
Event Name: ORIGINAL DRILLING — Start: 3/20/2003 — End:
Contractor Name: MCVAY DRILLING — Rig Release: — Group:
Rig Name: MCVAY DRILLING — Rig Number: 4

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
3/20/2003	08:00 - 20:00	12.00	RIG	MIRU	MIRU	Set 40' of 14" conductor. N/U Divertor. Move in / RU Rig. Fed "C" 35 # 4 Location:Sec. 35, T-21-S, R-23-E. Eddy Co. N.M. SHL @ 2310' FNL & 1980' FEL BHL @ 2540' FNL & 660' FEL
3/21/2003	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.
3/22/2003	07:00 - 07:30	0.50	SAFETY	SMTG	DRLSUR	Safety Meeting
	07:30 - 08:00	0.50	RIG	SERV	DRLSUR	Service Rig . Started motor & check equipment.
	08:00 - 09:15	1.25	TRIP	BBHD	DRLSUR	Picked up Hammer bit & hammer. Made up to D.C. & Kelly. Check hammer.
	09:15 - 10:00	0.75	DRILL	DOH	DRLSUR	Spudded w/ 12 3/8" hammer w/ air. @ 0915 HR.Drill f/ 55' to 87'.
	10:00 - 11:00	1.00	EQUIP	RURD	DRLSUR	RU Smith True Torque to check Rig torque gauge. Check bit make up.
	11:00 - 15:30	4.50	DRILL	AIR	DRLSUR	Air Drilling w/ hammer. Lost partial returns @ 204'.
	15:30 - 15:45	0.25	SURV	TOTC	DRLSUR	Ran wireline survey & made conn.
	15:45 - 16:00	0.25	RIG	RCNT	DRLSUR	Rig Repair, Worked on air boaster.
	16:00 - 16:30	0.50	DRILL	AIR	DRLSUR	Air Drilling w/ hammer. Hit water @ 425'
	16:30 - 17:00	0.50	RIG	RCNT	DRLSUR	Rig Repair, Worked on air boaster.
	17:00 - 21:45	4.75	DRILL	AIR	DRLSUR	Air Drilling w/ hammer. Started slowing down @ 636'
	21:45 - 23:00	1.25	TRIP	BIT	DRLSUR	L/D 3 jt's of HWDP & POOH.
	23:00 - 00:30	1.50	TRIP	BBHD	DRLSUR	Broke & L/D hammer tool & Picked up shock sub & reamer.
	00:30 - 01:45	1.25	TRIP	BIT	DRLSUR	TIH w/ new 12 1/4" bit
	01:45 - 02:00	0.25	DRILL	WSHR	DRLSUR	Installed rotating rubber & wash down 16' w/ 2' of fill.
	02:00 - 06:00	4.00	DRILL	AIR	DRLSUR	Air Drilling w/ 12 1/4" bit w/ shock sub & reamer.
3/23/2003	06:00 - 07:00	1.00	DRILL	AIR	DRLSUR	Air Drilling w/ 12 1/4" bit w/ S>S> & reamer.
	07:00 - 07:30	0.50	SURV	TOTC	DRLSUR	Survey with TOTCO Tools
	07:30 - 15:00	7.50	DRILL	AIR	DRLSUR	Air Drilling w/ 12 1/4" bit to surface T.D.
	15:00 - 15:30	0.50	SURV	TOTC	DRLSUR	Blow hole clean & .Survey with TOTCO Tools
	15:30 - 16:15	0.75	RIG	RCNT	DRLSUR	Rig Repair, Contractor owned . Repaired oiler chain in drawworks.
	16:15 - 17:30	1.25	TRIP	BIT	DRLSUR	POOH L/D 3-8" D.C., reamer, S.S., & bit.
	17:30 - 18:15	0.75	SAFETY	SMTG	CSGSUR	Safety Meeting & R/U caser's.
	18:15 - 20:00	1.75	CSG	RUN	CSGSUR	Ran 29 jt's of 9 5/8" 36 # casing to 1242'.
	20:00 - 21:30	1.50	CIRC	FILL	CSGSUR	Cir. & clean hole w/ rig pump.(R/D casers)
	21:30 - 22:45	1.25	SAFETY	SMTG	CSGSUR	Safety Meeting & R/U cementers. & tested lines.
	22:45 - 00:00	1.25	CEMT	PRIM	CSGSUR	Primary Cementing Operations.Cemented w/ 460 sks nitrofied cement, tailed w/ 150 sks of liquid cement.Plug down @ Midnight.Cir. till foam was dirty w/ some show of cement. But real green.
	00:00 - 01:00	1.00	CEMT	OTHR	CSGSUR	Pumped 275 sks of nitrofied cement down the back side & capped w/ 75 sks of liquid cement.
	01:00 - 04:00	3.00	WAIT	CEMT	CSGSUR	Wait on Cement
	04:00 - 06:00	2.00	NUND	DBOP	CSGSUR	Check back side & N/D Picked up surface stack. Cut off 9 5/8" casing.
3/24/2003	06:00 - 07:30	1.50	NUND	UwLH	DRLPR	Install Wellhead 11" 3M X 9 5/8" SOW, (Surface, Casing, Production, etc.)Tested to 1000 PSI
	07:30 - 11:30	4.00	NUND	UBOP	DRLPR	Picked up & installed BOP,Manifold,Kill line, & flowline.
	11:30 - 14:00	2.50	WAIT	EQIP	DRLPR	Wait on Equipment. Notified for tester @ 8:00A.M Sunday morning to be on location @ 12:00 Noon. All tester were out. Ended up w/ shophand for tester.
	14:00 - 16:30	2.50	TEST	BOP	DRLPR	BOP and Well Control Testing .Tested Blind & pipe rams,stand pipe, mud line,kelly valves,(upper,btm, & floor)Hydril to 1500 psi.
	16:30 - 17:45	1.25	TRIP	BBHD	DRLPR	Picked up new 8 3/4" bit & shock sub.TIH picking up jars also.
	17:45 - 18:00	0.25	DRILL	WSHR	DRLPR	Break cir. & wash to btm. 1208'.
	18:00 - 18:15	0.25	TEST	CSG	DRLPR	Test Casing to 1000 psi w/ rig pump. O.K.
	18:15 - 19:15	1.00	DRILL	CEMT	DRLPR	Drill Cement,float collar, & 10' out of shoe jt.

Operations Summary Report

Legal Well Name: FED "C" 35 NO. 4
Common Well Name: FED "C" 35 NO. 4
Event Name: ORIGINAL DRILLING
Contractor Name: MCVAY DRILLING
Rig Name: MCVAY DRILLING

Start: 3/20/2003
Rig Release:
Rig Number: 4

Spud Date: 3/20/2003
End:
Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
3/24/2003	19:15 - 19:30	0.25	TEST	CSG	DRLPR	Test shoe jt to 1000 psi. w/ rig pump.
	19:30 - 19:45	0.25	DRILL	CEMT	DRLPR	Finish drill cement out of shoe jt to 1242'. Unloaded hole.
	19:45 - 02:00	6.25	DRILL	AIR	DRLPR	Air Drilling w/ 8 3/4" bit w/ shock sub using 3200scf of air.
	02:00 - 02:15	0.25	SURV	TOTC	DRLPR	Survey with TOTCO Tools
	02:15 - 06:00	3.75	DRILL	AIR	DRLPR	Air Drilling w/ 8 3/4" bit.
3/25/2003	06:00 - 08:00	2.00	DRILL	AIR	DRLPR	Air Drilling w/ 8 3/4" bit.
	08:00 - 08:15	0.25	SURV	TOTC	DRLPR	Survey with TOTCO Tools. BOP drill & work annular.
	08:15 - 12:45	4.50	DRILL	AIR	DRLPR	Air Drilling w/ 8 3/4" bit.
	12:45 - 13:00	0.25	SURV	TOTC	DRLPR	Survey with TOTCO Tools
	13:00 - 18:00	5.00	DRILL	AIR	DRLPR	Air Drilling w/ 8 3/4" bit.
	18:00 - 18:15	0.25	SURV	TOTC	DRLPR	Survey with TOTCO Tools. BOP drill.
	18:15 - 02:30	8.25	DRILL	AIR	DRLPR	Air Drilling w/ 8 3/" bit.
	02:30 - 02:45	0.25	SURV	TOTC	DRLPR	Survey with TOTCO Tools. BOP drill.
	02:45 - 06:00	3.25	DRILL	AIR	DRLPR	Air Drilling w/ 8 3/4" bit.
3/26/2003	06:00 - 09:00	3.00	DRILL	AIR	DRLPR	Air Drilling to KOP w/ 8 3/4" bit .
	09:00 - 10:00	1.00	CIRC	HOLE	DRLPR	Blow hole clean ,Load, Circulate and Condition Hole
	10:00 - 11:30	1.50	TRIP	BHA	DRLPR	L/D 5 jts D.P.Trip for motor.
	11:30 - 12:30	1.00	TRIP	BBHD	DRLPR	L/D shock sub & changed out valve on flow line.BHA/Bit Handling
	12:30 - 14:30	2.00	TRIP	BBHD	DRLPR	BHA/Bit Handling. Picked up motor, stabilizer,S.S. .Monel Pony DC, Teleco. Orientated motor w/ Teleco & tested motor.Installed bit,Picking up Monel
	14:30 - 16:15	1.75	TRIP	BIT	DRLPR	Trip in hole w/ motor #1.
	16:45 - 17:00	0.25	DRILL	WSHR	DRLPR	Pull drive off kelly & wash 37' to btm. No fill.
	17:00 - 17:30	0.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	17:30 - 17:45	0.25	DRILL	DOHS	DRLPR	Drill Open Slide .100 grid
	17:45 - 18:15	0.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	18:15 - 18:30	0.25	SURV	MWD	DRLPR	Conn. & Survey with MWD Tools
	18:30 - 18:45	0.25	DRILL	DOHS	DRLPR	Drill Open Slide 100 Grid
	18:45 - 19:15	0.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	19:15 - 19:45	0.50	DRILL	DOHS	DRLPR	Drill Open Slide 100 grid
	19:45 - 20:15	0.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	20:15 - 20:30	0.25	SURV	MWD	DRLPR	Conn. & Survey with MWD Tools
	20:30 - 21:15	0.75	DRILL	DOHS	DRLPR	Drill Open Slide 100 Grid.
	21:15 - 21:45	0.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	21:45 - 22:15	0.50	CIRC	CLN	DRLPR	Circulate Clean
	22:15 - 00:15	2.00	SURV	GYRO	DRLPR	Survey with GYRO system
	00:15 - 01:00	0.75	DRILL	DOHS	DRLPR	Drill Open Slide 100 Grid
	01:00 - 01:30	0.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	01:30 - 01:45	0.25	SURV	MWD	DRLPR	Conn. & Survey with MWD Tools
	01:45 - 02:00	0.25	DRILL	DOHS	DRLPR	Drill Open Slide 100 Grid
	02:00 - 02:45	0.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	02:45 - 03:00	0.25	DRILL	DOHS	DRLPR	Drill Open Slide 100 Grid
	03:00 - 03:45	0.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	03:45 - 04:00	0.25	SURV	MWD	DRLPR	Conn & Survey with MWD Tools
	04:00 - 04:15	0.25	DRILL	DOHS	DRLPR	Drill Open Slide TFO 15R
	04:15 - 05:00	0.75	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
3/27/2003	06:00 - 06:15	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	06:15 - 06:30	0.25	DRILL	DOHS	DRLPR	Drill Open Slide
	06:30 - 07:15	0.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	07:15 - 07:30	0.25	DRILL	DOHS	DRLPR	Drill Open Slide
	07:30 - 08:00	0.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary

Operations Summary Report

Legal Well Name: FED "C" 35 NO. 4
Common Well Name: FED "C" 35 NO. 4
Event Name: ORIGINAL DRILLING
Contractor Name: MCVAY DRILLING
Rig Name: MCVAY DRILLING

Start: 3/20/2003
Rig Release:
Rig Number: 4

Spud Date: 3/20/2003
End:
Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
3/27/2003	08:00 - 08:15	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	08:15 - 08:30	0.25	DRILL	DOHS	DRLPR	Drill Open Slide
	08:30 - 09:15	0.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	09:15 - 09:45	0.50	DRILL	DOHS	DRLPR	Drill Open Slide
	09:45 - 10:15	0.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	10:15 - 10:30	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	10:30 - 10:45	0.25	DRILL	DOHS	DRLPR	Drill Open Slide
	10:45 - 11:45	1.00	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	11:45 - 12:00	0.25	DRILL	DOHS	DRLPR	Drill Open Slide
	12:00 - 12:30	0.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	12:30 - 12:45	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	12:45 - 13:15	0.50	DRILL	DOHS	DRLPR	Drill Open Slide
	13:15 - 14:00	0.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	14:00 - 14:15	0.25	DRILL	DOHS	DRLPR	Drill Open Slide
	14:15 - 14:45	0.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	14:45 - 15:00	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	15:00 - 15:30	0.50	DRILL	DOHS	DRLPR	Drill Open Slide
	15:30 - 16:15	0.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	16:15 - 17:15	1.00	DRILL	DOHS	DRLPR	Drill Open Slide
	17:15 - 17:30	0.25	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 - 19:00	0.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	19:00 - 19:30	0.50	DRILL	DOHS	DRLPR	Drill Open Slide
	19:30 - 19:45	0.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	19:45 - 20:15	0.50	SURV	MWD	DRLPR	Survey with MWD Tools
	20:15 - 21:00	0.75	DRILL	DOHS	DRLPR	Drill Open Slide
	21:00 - 21:30	0.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	21:30 - 22:00	0.50	DRILL	DOHS	DRLPR	Drill Open Slide
	22:00 - 22:15	0.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	22:15 - 22:45	0.50	DRILL	DOHS	DRLPR	Drill Open Slide
	22:45 - 00:00	1.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	00:00 - 00:30	0.50	DRILL	DOHS	DRLPR	Drill Open Slide
	00:30 - 00:45	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	00:45 - 02:00	1.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	02:00 - 02:15	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	02:15 - 03:45	1.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	03:45 - 04:00	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	04:00 - 05:30	1.50	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
3/28/2003	06:00 - 07:15	1.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	07:15 - 07:30	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	07:30 - 08:00	0.50	DRILL	DOHS	DRLPR	Drill Open Slide
	08:00 - 09:15	1.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	09:15 - 09:30	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	09:30 - 10:00	0.50	DRILL	DOHS	DRLPR	Drill Open Slide
	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 - 12:00	0.25	DRILL	DOHS	DRLPR	Drill Open Slide
	12:00 - 13:00	1.00	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	13:00 - 13:15	0.25	RIG	RCNT	DRLPR	Rig Repair, Contractor owned Pump- Broken rod.
	13:15 - 13:30	0.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary

Operations Summary Report

Legal Well Name: FED "C" 35 NO. 4
Common Well Name: FED "C" 35 NO. 4
Spud Date: 3/20/2003
Event Name: ORIGINAL DRILLING
Start: 3/20/2003
End:
Contractor Name: MCVAY DRILLING
Rig Release:
Group:
Rig Name: MCVAY DRILLING
Rig Number: 4

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
3/28/2003	13:30 - 13:45	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	13:45 - 14:15	0.50	DRILL	DOHS	DRLPR	Drill Open Slide
	14:15 - 16:00	1.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	16:00 - 16:15	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	16:15 - 16:45	0.50	DRILL	DOHS	DRLPR	Drill Open Slide
	16:45 - 18:30	1.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	18:30 - 19:00	0.50	RIG	RCNT	DRLPR	Rig Repair, Contractor owned- Gelograph
	19:00 - 19:15	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	19:15 - 20:00	0.75	DRILL	DOHS	DRLPR	Drill Open Slide
	20:00 - 21:15	1.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	21:15 - 21:30	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	21:30 - 22:00	0.50	DRILL	DOHS	DRLPR	Drill Open Slide
	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 - 00:30	0.75	DRILL	DOHS	DRLPR	Drill Open Slide
	00:30 - 01:15	0.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	01:15 - 01:30	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	01:30 - 02:00	0.50	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 - 03:45	0.50	DRILL	DOHS	DRLPR	Drill Open Slide
	03:45 - 04:45	1.00	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	04:45 - 05:00	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	05:00 - 05:30	0.50	DRILL	DOHS	DRLPR	Drill Open Slide
	05:30 - 06:00	0.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
3/29/2003	06:00 - 07:00	1.00	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	07:00 - 07:30	0.50	DRILL	DOHS	DRLPR	Drill Open Slide
	07:30 - 08:15	0.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	08:15 - 08:30	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	08:30 - 09:00	0.50	DRILL	DOHS	DRLPR	Drill Open Slide
	09:00 - 10:00	1.00	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	10:00 - 10:15	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	10:15 - 10:45	0.50	DRILL	DOHS	DRLPR	Drill Open Slide
	10:45 - 11:45	1.00	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	11:45 - 12:00	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	12:00 - 12:30	0.50	DRILL	DOHS	DRLPR	Drill Open Slide
	12:30 - 13:45	1.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	13:45 - 14:00	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	14:00 - 14:30	0.50	DRILL	DOHS	DRLPR	Drill Open Slide
	14:30 - 15:45	1.25	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 - 17:45	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
	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 - 21:00	0.75	DRILL	DOHS	DRLPR	Drill Open Slide
	21:00 - 22:15	1.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	22:15 - 22:30	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	22:30 - 23:15	0.75	DRILL	DOHS	DRLPR	Drill Open Slide
	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

Marathon Oil Company

Operations Summary Report

Legal Well Name: FED "C" 35 NO. 4
Common Well Name: FED "C" 35 NO. 4 Spud Date: 3/20/2003
Event Name: ORIGINAL DRILLING Start: 3/20/2003 End:
Contractor Name: MCVAY DRILLING Rig Release: Group:
Rig Name: MCVAY DRILLING Rig Number: 4

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
3/29/2003	01:15 - 01:45	0.50	DRILL	DOHS	DRLPR	Drill Open Slide
	01:45 - 02:15	0.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	02:15 - 03:15	1.00	DRILL	DOHS	DRLPR	Drill Open Slide
	03:15 - 04:00	0.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	04:00 - 04:15	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	04:15 - 06:00	1.75	TRIP	MOTR	DRLPR	Trip for Motor. Pumped slug. Pumped pressure incresed t/ 1900 psi off bottom. Drop in angle.
3/30/2003	06:00 - 08:30	2.50	TRIP	MOTR	DRLPR	Trip for Motor
	08:30 - 09:30	1.00	TRIP	BBHD	DRLPR	BHA/Bit Handling. L/D Motor. Chg out Motor. Chg Stabilzer f/ 8 1/4" t/ 7 7/8", Chg out bit.
	09:30 - 12:15	2.75	TRIP	BIT	DRLPR	Trip in hole.
	12:15 - 12:30	0.25	CIRC	FILL	DRLPR	Wash to bottom. No fill. 30'
	12:30 - 13:00	0.50	DRILL	DOHS	DRLPR	Drill Open Slide
	13:00 - 13:30	0.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	13:30 - 13:45	0.25	DRILL	DOHS	DRLPR	Drill Open Slide
	13:45 - 14:15	0.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	14:15 - 14:30	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	14:30 - 14:45	0.25	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 - 16:15	0.25	DRILL	DOHS	DRLPR	Drill Open Slide
	16:15 - 17:00	0.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	17:00 - 17:30	0.50	SURV	MWD	DRLPR	Survey with MWD Tools
	17:30 - 17:45	0.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	17:45 - 18:00	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	18:00 - 18:15	0.25	DRILL	DOHS	DRLPR	Drill Open Slide
	18:15 - 19:45	1.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	19:45 - 20:00	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	20:00 - 20:30	0.50	DRILL	DOHS	DRLPR	Drill Open Slide
	20:30 - 21:45	1.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	21:45 - 22:15	0.50	SURV	MWD	DRLPR	Survey with MWD Tools
	22:15 - 23:00	0.75	DRILL	DOHS	DRLPR	Drill Open Slide
	23:00 - 00:00	1.00	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	00:00 - 00:15	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	00:15 - 01:00	0.75	DRILL	DOHS	DRLPR	Drill Open Slide
	01:00 - 02:00	1.00	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	02:00 - 02:15	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	02:15 - 02:45	0.50	DRILL	DOHS	DRLPR	Drill Open Slide
	02:45 - 03:45	1.00	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	03:45 - 04:00	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	04:00 - 04:15	0.25	DRILL	DOHS	DRLPR	Drill Open Slide
	04:15 - 05:30	1.25	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. Drilling @ 35'/hr.
3/31/2003	06:00 - 06:45	0.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	06:45 - 07:00	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	07:00 - 07:30	0.50	DRILL	DOHS	DRLPR	Drill Open Slide
	07:30 - 08:15	0.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	08:15 - 08:30	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	08:30 - 09:15	0.75	DRILL	DOHS	DRLPR	Drill Open Slide
	09:15 - 10:30	1.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	10:30 - 10:45	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	10:45 - 11:30	0.75	DRILL	DOHS	DRLPR	Drill Open Slide

Operations Summary Report

Legal Well Name: FED "C" 35 NO. 4
Common Well Name: FED "C" 35 NO. 4
Spud Date: 3/20/2003
Event Name: ORIGINAL DRILLING
Start: 3/20/2003
End:
Contractor Name: MCVAY DRILLING
Rig Release:
Group:
Rig Name: MCVAY DRILLING
Rig Number: 4

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
3/31/2003	11:30 - 13:00	1.50	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
	14:00 - 15:45	1.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	15:45 - 16:00	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	16:00 - 16:15	0.25	DRILL	DOHS	DRLPR	Drill Open Slide
	16:15 - 18:00	1.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	18:00 - 18:15	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	18:15 - 19:00	0.75	DRILL	DOHS	DRLPR	Drill Open Slide
	19:00 - 19:30	0.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	19:30 - 20:45	1.25	DRILL	DOHS	DRLPR	Drill Open Slide
	20:45 - 21:15	0.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	21:15 - 21:30	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	21:30 - 22:15	0.75	DRILL	DOHS	DRLPR	Drill Open Slide
	22:15 - 22:45	0.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	22:45 - 23:45	1.00	DRILL	DOHS	DRLPR	Drill Open Slide
	23:45 - 00:15	0.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	00:15 - 00:30	0.25	DRILL	DOHS	DRLPR	Drill Open Slide
	00:30 - 01:15	0.75	SURV	MWD	DRLPR	Survey with MWD Tools
	01:15 - 01:45	0.50	DRILL	DOHS	DRLPR	Drill Open Slide
	01:45 - 02:30	0.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	03:00 - 03:15	0.25	DRILL	DOHS	DRLPR	Drill Open Slide
	03:15 - 04:00	0.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	04:00 - 04:30	0.50	SURV	MWD	DRLPR	Survey with MWD Tools
	04:30 - 05:00	0.50	DRILL	DOHS	DRLPR	Drill Open Slide
	05:00 - 05:15	0.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	05:15 - 05:45	0.50	DRILL	DOHS	DRLPR	Drill Open Slide
	05:45 - 06:00	0.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary Avg 28'/hr.
4/1/2003	06:00 - 06:15	0.25	DRILL	DOHS	DRLPR	Drill Open Slide
	06:15 - 07:00	0.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	07:00 - 07:30	0.50	DRILL	DOHS	DRLPR	Drill Open Slide
	07:30 - 08:00	0.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	08:00 - 08:15	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	08:30 - 09:15	0.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	09:15 - 10:00	0.75	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 - 12:30	1.75	DRILL	DOHS	DRLPR	Drill Open Slide
	12:30 - 12:45	0.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	12:45 - 14:00	1.25	DRILL	DOHS	DRLPR	Drill Open Slide
	14:00 - 14:45	0.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	14:45 - 15:15	0.50	DRILL	DOHS	DRLPR	Drill Open Slide
	15:15 - 15:30	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	15:30 - 16:30	1.00	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	16:30 - 17:15	0.75	DRILL	DOHS	DRLPR	Drill Open Slide
	17:15 - 17:45	0.50	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
	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 - 21:15	1.25	DRILL	DOHS	DRLPR	Drill Open Slide
	21:15 - 21:30	0.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	21:30 - 22:15	0.75	DRILL	DOHS	DRLPR	Drill Open Slide

Marathon Oil Company

Operations Summary Report

Legal Well Name: FED "C" 35 NO. 4
Common Well Name: FED "C" 35 NO. 4 Spud Date: 3/20/2003
Event Name: ORIGINAL DRILLING Start: 3/20/2003 End:
Contractor Name: MCVAY DRILLING Rig Release: Group:
Rig Name: MCVAY DRILLING Rig Number: 4

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
4/1/2003	22:15 - 22:45	0.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	22:45 - 23:00	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	23:00 - 23:15	0.25	DRILL	DOHS	DRLPR	Drill Open Slide
	23:15 - 00:00	0.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	00:00 - 00:30	0.50	DRILL	DOHS	DRLPR	Drill Open Slide
	00:30 - 01:00	0.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	01:00 - 01:15	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	01:30 - 02:00	0.50	DRILL	DOHS	DRLPR	Drill Open Slide
	02:30 - 03:00	0.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	03:00 - 03:15	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	03:15 - 03:30	0.25	DRILL	DOHS	DRLPR	Drill Open Slide
	03:30 - 04:30	1.00	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	04:30 - 04:45	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	04:45 - 06:00	1.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary. Full returns. Drilling @ 36'/hr.
4/2/2003	06:00 - 07:00	1.00	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	07:00 - 07:15	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	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 - 10:15	1.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	10:15 - 10:30	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	10:30 - 11:45	1.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	11:45 - 12:00	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	12:00 - 13:45	1.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	13:45 - 14:00	0.25	SURV	MWD	DRLPR	Survey with MWD Tools 45K drag
	14:00 - 16:15	2.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary. Top of Redbed shale @ 8000'.
	16:15 - 16:30	0.25	SURV	MWD	DRLPR	Survey with MWD Tools 55K drag
	16:30 - 17:15	0.75	DRILL	DOHS	DRLPR	Drill Open Slide
	17:15 - 17:45	0.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	17:45 - 18:15	0.50	CIRC	CLN	DRLPR	Stuck DP on connection Jarred free. Worked DP. 50-70 drag.
	18:15 - 19:30	1.25	TRIP	WTRP	DRLPR	Wiper Trip 5 std.
	19:30 - 21:00	1.50	CIRC	MUD	DRLPR	Circulate and Condition Mud. Pumped 80 bbl sweep. Circ bottom's up. Large amounts of shale. Mudded up.
	21:00 - 22:15	1.25	DRILL	DOHS	DRLPR	Drill Open Slide
	22:15 - 23:15	1.00	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	23:15 - 23:30	0.25	SURV	MWD	DRLPR	Survey with MWD Tools 45-50K drag
	23:30 - 00:00	0.50	DRILL	DOHS	DRLPR	Drill Open Slide
	00:30 - 02:45	2.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	02:45 - 03:00	0.25	SURV	MWD	DRLPR	Survey with MWD Tools 45-50K drag
	03:00 - 06:00	3.00	DRILL	DOHR	DRLPR	Drill Open Hole Rotary. Drilling @ 18'/hr. Normal drag. Rot wt 200K, drag 50K 95% returns.
4/3/2003	06:00 - 06:15	0.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	06:15 - 06:30	0.25	SURV	MWD	DRLPR	Conn. & Survey with MWD Tools
	06:30 - 09:00	2.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	09:00 - 09:15	0.25	SURV	MWD	DRLPR	Conn. & Survey with MWD Tools
	09:15 - 10:00	0.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	10:00 - 10:45	0.75	RIG	RCNT	DRLPR	Rig Repair, Contractor owned . Changed out tubo on #1 motor.
	10:45 - 12:15	1.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	12:15 - 12:30	0.25	SURV	MWD	DRLPR	Conn. & Survey with MWD Tools
	12:30 - 13:30	1.00	DRILL	DOHS	DRLPR	Drill Open Slide 20L
	13:30 - 16:00	2.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	16:00 - 16:15	0.25	SURV	MWD	DRLPR	Conn. & Survey with MWD Tools
	16:15 - 16:45	0.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary. Pumped 40 bbl sweep.
	16:45 - 18:45	2.00	CIRC	HOLE	DRLPR	Circulate and Condition Hole

Marathon Oil Company

Operations Summary Report

Legal Well Name: FED "C" 35 NO. 4
Common Well Name: FED "C" 35 NO. 4
Event Name: ORIGINAL DRILLING
Contractor Name: MCVAY DRILLING
Rig Name: MCVAY DRILLING

Start: 3/20/2003
Rig Release:
Rig Number: 4

Spud Date: 3/20/2003
End:
Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
4/3/2003	18:45 - 20:00	1.25	TRIP	WTRP	DRLPR	Wiper Trip. 10 stand short trip.Wash 25'. 5' of fill.
	20:00 - 20:30	0.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary. Drilled 10' more for casing to fit.
	20:30 - 22:30	2.00	CIRC	HOLE	DRLPR	Circulate and Condition Hole

Marathon Oil Company
Casing Report

Legal Well Name: FED "C" 35 NO. 4
Common Well Name: FED "C" 35 NO. 4
Event Name: ORIGINAL DRILLING

Report #: 1
Start: 3/20/2003

Spud Date: 3/20/2003
Report Date: 3/23/2003
End:

General Information

String Type: SURFACE CASING
Hole TVD: 1,242.0 (ft)
Ground Level: 3,928.00 (ft)
Circ Hours: 0.50 (hr)

Permanent Datum: KELLY BUSHING
KB-Datum: 0.00 (ft)
CF Elevation: (ft)
Mud Lost: (bbl)

Hole Size:
Water TMD:
Liner Overlap: (ft)
KB to Cutoff: (ft)

Hole TMD: 1,242.0 (ft)
Str Wt on Slips: (lb)
Max Hole Angle: 1.25 (°)
Days From Spud: 2 (days)

Casing Flange / Wellhead

Manufacturer:
Hanger Model:

Model:
Packoff Model:

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

Actual TMD Set: 1,241.950 (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	J-55	8.921	8 ROUND	28	1,216.700									
CASING FLOAT COLLA	9.625			8.921	8 ROUND		1.200	1,216.70								
CASING JOINT(S)	9.625	36.0	J-55	8.921	8 ROUND	1	22.600	1,217.90								
CASING FLOAT SHOE	9.625			8.921	8 ROUND		1.450	1,240.50								

Marathon Oil Company
Cementing Report

Legal Well Name: FED "C" 35 NO. 4
Common Well Name: FED "C" 35 NO. 4
Event Name: ORIGINAL DRILLING
Report #: 1
Start: 3/20/2003
Spud Date: 3/20/2003
Report Date: 3/23/2003
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: 1,242.0 (ft)	SQ TMD: (ft)	TMD Set:	Top Set: (ft)
Date Set: 3/23/2003	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: SURFACE CASING	Cmtd. Csg:	Cmtd. Csg:	Cmtd. Csg:

Cement Co: HALLIBURTON Cementer: Pipe Movement: NO MOVEMENT

Pipe Movement

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

Stage No: 1 of 1

Type: PRIM CMT 1ST STAGE	Start Mix Cmt: :	Disp Avg Rate: (bbl/min)	Returns:
Volume Excess %: 80.00	Start Slurry Displ: :	Disp Max Rate: (bbl/min)	Total Mud Lost: (bbl)
Meas. From: kb	Start Displ: :	Bump Plug: Y	Cmt Vol to Surf: (bbl)
Time Circ Prior	End Pumping: :	Press Prior: 200 (psi)	
To Cementing:	End Pump Date:	Press Bumped: 800 (psi)	Ann Flow After: N
Mud Circ Rate: 350 (gpm)	Top Plug: N	Press Held: 500 (min)	Mixing Method:
Mud Circ Press: (psi)	Bottom Plug: Y	Float Held: Y	Density Meas By:

Mud Data

Type: FRESH WATER Density: 8.4 (ppg) Visc: 27 (s/qt) PV/YP: (cp)/ (lb/100ft²) Gels 10 sec: (lb/100ft²) Gels 10 min: (lb/100ft²)
Bottom Hole Circulating Temperature: (°F) Bottom Hole Static Temperature: (°F)
Displacement Fluid Type:FRESH WATER Density: 8.4 (ppg) Volume: 94.00 (bbl)

Stage No: 1 Slurry No: 1 of 4

Slurry Data

Fluid Type: LEAD Description: FOAM Class: CLASS C Purpose: FILLER CEM
Slurry Interval: 1,242.00 (ft)To: 800.00 (ft) Cmt Vol: 460 (sk) Density: (ppg) Yield: 14.80 (ft³/sk) Mix Water: 6.36 (gal/sk)
Water Source: frac tank Slurry Vol30.0 (bbl) Water Vol: (bbl) Other Vol: () Foam Job: Y

Test Data

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

Cementing Report

Legal Well Name:	FED "C" 35 NO. 4			Spud Date:	3/20/2003
Common Well Name:	FED "C" 35 NO. 4	Report #:	1	Report Date:	3/23/2003
Event Name:	ORIGINAL DRILLING	Start:	3/20/2003	End:	

Stage No: 1 Slurry No: 2 of 4

Slurry Data

Fluid Type: TAIL	Description: OTHER		Class: CLASS C	Purpose: SHOE INTEG	
Slurry Interval: 800.00 (ft) To: 1,242.00 (ft)	Cmt Vol: 150 (sk)	Density: (ppg)	Yield: 1.34 (ft³/sk)	Mix Water: 6.37 (gal/sk)	
Water Source: frac tank	Slurry Vol: (bbl)	Water Vol: 36.0 (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: 1 Slurry No: 3 of 4

Slurry Data

Fluid Type: OTHER	Description: FOAM		Class: CLASS C	Purpose: FILLER CEM	
Slurry Interval: 250.00 (ft) To: 250.00 (ft)	Cmt Vol: 275 (sk)	Density: (ppg)	Yield: 1.35 (ft³/sk)	Mix Water: 6.37 (gal/sk)	
Water Source: frac tank	Slurry Vol: (bbl)	Water Vol: 66.0 (bbl)	Other Vol: ()	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)					

Stage No: 1 Slurry No: 4 of 4

Slurry Data

Fluid Type: OTHER	Description: BENTONITE ACCEL.		Class: CLASS C	Purpose: FW PROTEC	
Slurry Interval: (ft) To: 75.00 (ft)	Cmt Vol: 75 (sk)	Density: (ppg)	Yield: 1.48 (ft³/sk)	Mix Water: 6.80 (gal/sk)	
Water Source: frac tank	Slurry Vol: (bbl)	Water Vol: 18.0 (bbl)	Other Vol: ()	Foam Job: N	

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

Marathon Oil Company

Cementing Report

Legal Well Name:	FED "C" 35 NO. 4			Spud Date:	3/20/2003
Common Well Name:	FED "C" 35 NO. 4	Report #:	1	Report Date:	3/23/2003
Event Name:	ORIGINAL DRILLING	Start:	3/20/2003	End:	

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

Started to cir well to surface on last 15 to 20 bbl's before bumping plug.Cir. foam had some signs of cement. Pumped 275 sks of foam cement down back side showing about 85 psi while pumping. Capped w/ 75 sks liquid cement. Pressure dropped to 0. After N/D stack & cutting off 9 5/8" casing Ran string line down backside & tagged around 75 to 80 '. Poured 5 1/2 yards on backside to surface.

Marathon Oil Company

Casing Report

Legal Well Name:	FED "C" 35 NO. 4			Spud Date:	3/20/2003
Common Well Name:	FED "C" 35 NO. 4	Report #:	1	Report Date:	4/3/2003
Event Name:	ORIGINAL COMPLETION	Start:	4/7/2003	End:	

General Information

String Type:	PRODUCTION CASING #1	Permanent Datum:	KELLY BUSHING	Hole Size:		Hole TMD:	8,465.0 (ft)
Hole TVD:	8,274.0 (ft)	KB-Datum:	0.00 (ft)	Water TMD:		Str Wt on Slips:	(lb)
Ground Level:	3,928.00 (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:	TBGHD 7 1/16	Packoff Model:	Secseal	BTM Hub/Flange:	(in) / (psi)

Actual TMD Set: 8,465.840 (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	75.160							7.656	6.151	
CASING JOINT(S)	7.000	23.0	K-55	6.366	8 ROUND	105	4,564.200	75.16						7.656	6.241	
CASING JOINT(S)	7.000	26.0	K-55	6.276	8 ROUND	87	3,794.140	4,639.36						7.656	6.151	
CASING FLOAT COLLA	7.000	26.0		6.276	8 ROUND		1.200	8,433.50						7.656	6.151	
CASING JOINT(S)	7.000	26.0	K-55	6.276	8 ROUND	1	29.790	8,434.70						7.656	6.151	
CASING FLOAT SHOE	7.000	26.0		6.276	8 ROUND		1.350	8,464.49						7.656	6.151	

Non-Integral Casing Accessories

Accessory	Manufacturer	Number	Spacing (ft)	Interval Top (ft)	Interval Bottom (ft)	How Fixed
CENTRALIZER	Weatherford	30	90.0			CLAMPED

Remarks

Marker jt # 17 above shoe jt.Length 36.41' & also # 22 Lenght 38.91' .All the rest of pipe around this 2 jt's are 40' or longer.

Marathon Oil Company

Cementing Report

Legal Well Name:	FED "C" 35 NO. 4			Spud Date:	3/20/2003
Common Well Name:	FED "C" 35 NO. 4	Report #:	1	Report Date:	4/3/2003
Event Name:	ORIGINAL COMPLETION	Start:	4/7/2003	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: 8,474.8 (ft)	SQ TMD: (ft)	TMD Set:	Top Set: (ft)
Date Set: 4/3/2003	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: PRODUCTION CASIN	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:	Start Mix Cmt: :	Disp Avg Rate: (bbl/min)	Returns:
Volume Excess %:	Start Slurry Displ: :	Disp Max Rate: (bbl/min)	Total Mud Lost: (bbl)
Meas. From:	Start Displ: :	Bump Plug:	Cmt Vol to Surf: (bbl)
Time Circ Prior	End Pumping: :	Press Prior: (psi)	
To Cementing:	End Pump Date:	Press Bumped: (psi)	Ann Flow After:
Mud Circ Rate: (gpm)	Top Plug:	Press Held: (min)	Mixing Method:
Mud Circ Press: (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: 1 Slurry No: 1 of 4

Slurry Data

Fluid Type: SCAVENGER SLURRY	Description: FOAM		Class: CLASS H	Purpose: FILLER CEM	
Slurry Interval: (ft)	To: 8,465.00 (ft)	Cmt Vol: 100 (sk)	Density: 15.0 (ppg)	Yield: 2.55 (ft³/sk)	Mix Water: 11.07 (gal/sk
Water Source: Frac tank		Slurry Vol:10.0 (bbl)	Water Vol: 26.4 (bbl)	Other Vol: ()	Foam Job: Y

Test Data

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

Cementing Report

Legal Well Name: FED "C" 35 NO. 4
Common Well Name: FED "C" 35 NO. 4
Event Name: ORIGINAL COMPLETION
Report #: 1
Start: 4/7/2003
Spud Date: 3/20/2003
Report Date: 4/3/2003
End:

Stage No: 1 Slurry No: 2 of 4

Slurry Data

Fluid Type: LEAD		Description: NITRIFIED			Class: CLASS H	Purpose: FILLER CEM
Slurry Interval: (ft)	To: 7,400.00 (ft)	Cmt Vol: 1,050 (sk)	Density: 15.0 (ppg)		Yield: 1.28 (ft³/sk)	Mix Water: 6.01 (gal/sk)
Water Source: Frac tank		Slurry Vol: (bbl)	Water Vol: 150.0 (bbl)		Other Vol: ()	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)					

Stage No: 1 Slurry No: 3 of 4

Slurry Data

Fluid Type: TAIL		Description: BENTONITE ACCEL.			Class: CLASS H	Purpose: SHOE INTEG
Slurry Interval: 7,400.00 (ft)	To: 8,465.00 (ft)	Cmt Vol: 120 (sk)	Density: 13.0 (ppg)		Yield: 1.67 (ft³/sk)	Mix Water: 8.23 (gal/sk)
Water Source: Frac tank		Slurry Vol: (bbl)	Water Vol: 23.5 (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: 1 Slurry No: 4 of 4

Slurry Data

Fluid Type: OTHER		Description: THIXOTROPIC			Class: CLASS C	Purpose: WELLHEAD L
Slurry Interval: (ft)	To: 75.00 (ft)	Cmt Vol: 75 (sk)	Density: 14.8 (ppg)		Yield: 1.47 (ft³/sk)	Mix Water: 6.87 (gal/sk)
Water Source: frac tank		Slurry Vol: (bbl)	Water Vol: 12.3 (bbl)		Other Vol: ()	Foam Job: N

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

Marathon Oil Company

Cementing Report

Legal Well Name:	FED "C" 35 NO. 4			Spud Date:	3/20/2003
Common Well Name:	FED "C" 35 NO. 4	Report #:	1	Report Date:	4/3/2003
Event Name:	ORIGINAL COMPLETION	Start:	4/7/2003	End:	

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: