

New Mexico

1468

Date 06/99

District I - (505) 393-6161

1625 R. French Dr

Hobbs, NM 88241-1980

District II - (505) 748-1283

811 S. First

Artesia, NM 88210

District III - (505) 334-6178

1000 Rio Brazos Road

Aztec, NM 87410

District IV - (505) 827-7131

Energy Minerals and Natural Resources Department

Oil Conservation Division

2040 South Pacheco Street

Santa Fe, New Mexico 87505

(505) 827-7131

SUBMIT ORIGINAL
PLUS 2 COPIES
TO THE SANTA FE
OFFICE

DEC 13 1999

APPLICATION FOR NEW WELL STATUS

I. Operator and Well

Operator name & address <i>Marathon Oil Company</i> <i>P.O. Box 552</i> <i>Midland, TX 79702</i>							OGRID Number <i>014021</i>	
Contact Party <i>Tim Chase</i>							Phone <i>915-687-8268</i>	
Property Name <i>Henry Courtman 4 State Com</i>					Well Number <i>1</i>		API Number <i>30-015-30060</i>	
UL <i>G</i>	Section <i>4</i>	Townshi <i>P 19S</i>	Range <i>28E</i>	Feet From The <i>1780</i>	North/South Line <i>North</i>	Feet From The <i>1650</i>	East/West Line <i>East</i>	County <i>Eddy</i>

II. Date/Time Information

Spud Date <i>8-12-99</i>	Spud Time <i>7:00 AM</i>	Date Completed <i>10-29-99</i>	Pool <i>Travis; Upper Penn</i>
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III. Attach copies of Form C-103 or Federal Form 3160-5 showing date/time of drilling commenced and Form C-105 or Federal Form 3160-4 showing well was completed as a producer.

IV. Attach a list of all working interest owners with their percentage interests.

V. AFFIDAVIT:

State of Texas)
County of Midland) ss.

Tim Chase, being first duly sworn, upon oath states:

1. I am the Operator, or authorized representative of the Operator, of the above-referenced well.
To the best of my knowledge, this application is complete and correct.

Signature *Tim Chase* Title Advanced Engineer Technician Date December 9, 1999

SUBSCRIBED AND SWORN TO before me this 9th day of December, 1999

My Commission expires: 01/15/00

Notary Public *Maria Keil*

FOR OIL CONSERVATION DIVISION USE ONLY:

VI. CERTIFICATION OF APPROVAL:

This Application is hereby approved and the above referenced well is designated a New Well. By copy hereof, the Division notifies the Secretary of the Taxation and Revenue Department of this Approval.

Signature <i>Mark Rahmy</i>	Title <i>P.E. Spore</i>	Date <i>12-29-99</i>
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VII. DATE OF NOTIFICATION TO THE SECRETARY OF THE TAXATION AND REVENUE DEPARTMENT: 12/29/99

NOTICE: The operator must notify all working interest owners of this New Well certification.

PVZV2007338720

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

DISTRICT I
P.O. Box 1980, Hobbs NM 88241-1980

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION

2040 Pacheco St.
Santa Fe, NM 87505

WELL API NO. 30-015-30060
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Henry Courtman 4 State Com
8. Well No. 1
9. Pool name or Wildcat Travis; Upper Penn

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: OIL WELL ☒ GAS WELL ☐ OTHER ☐	
2. Name of Operator Marathon Oil Company	
3. Address of Operator P.O. Box 2409 Hobbs, NM 88240	
4. Well Location Unit Letter G : 1780 Feet From The North Line and 1650 Feet From The East Line Section 4 Township 19-S Range 28-E NMPM Eddy County	
10. Elevation (Show whether DF, RKB, RT, GK, etc.) GL 3533' KB 3549'	

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	PLUG AND ABANDONMENT ☐
PULL OR ALTER CASING ☐		CASING TEST AND CEMENT JOB ☐	
OTHER: ☐		OTHER: Horizontal Completion ☒	

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

10/5 RIH, rel pkr, POOH. RIH w/pkr. Tag lateral TD at 11,130'. Set pkr at 9314'. Test, OK. Rel pkr. RIH, enter 2nd lateral to 11,133. Displace w/28x HCL. Set pkr at 9314'. Frac w/2000 gals purgel LT-30. Communicated w/annulus. Rel pkr, would not reset, POOH. Redress subs.

10/12 RIH w/pkr. Tag 2nd lateral at 11,145', set pkr at 9298'. Pump chemical pkr. Displace w/2300 gals 28x acid. Frac w/10,584 gals purgel, 20,454 gals acid. Flow back to frac tank.

10/13 Rel pkr at 9298'. POOH. RIH w/prod tbg & pkr. Set pkr at 9614'. Test, OK. Swab.

10/19 SWI - waiting on pumping unit.

10/21 RIH, rel pkr, POOH. RIH latch onto whipstock at 9687'. POOH. Drill and knock out CIBP at 9692'. Clean out to 9942'.

10/28 RIH w/2 7/8" tbg. RIH w/pump and rods.
TAC at 9612'
SN at 9804' End of tbg 9836'

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Kelly Cook TITLE Records Processor DATE 11/17/99
 TYPE OR PRINT NAME Kelly Cook TELEPHONE NO. 393-7106

(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____
 CONDITIONS OF APPROVAL, IF ANY:

PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Grande Rd., Artesia, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-104

Revised October 18, 1994

Instructions on back

Submit to Appropriate District Office

5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

1 Operator name and Address Marathon Oil Company P.O. Box 2490 Hobbs, NM 88240		2 OGRID Number 014021
4 APT Number 30-0 30-015-30060		3 Reason for Filing Code Drill Horizontal Eff 9/4/99
5 Pool Name Travis; Upper Penn		6 Pool Code 59860
7 Property Code 22548	8 Property Name Henry Courtman 4 State Com	9 Well Number 1

II. Surface Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
G	4	19-S	28-E		1780	North	1650	East	Eddy

Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
B	4	19-S	28-E			North		East	Eddy
12 Les Code S	13 Producing Method Code Pumping	14 Gas Connection Date	15 C-129 Permit Number	16 C-129 Effective Date	17 C-129 Expiration Date				

III. Oil and Gas Transporters

18 Transporter OGRID	19 Transporter Name and Address	20 POD	21 OAG	22 POD ULSTR Location and Description
174238	TEPPCO Crude Oil Liberty Tower, 100 N. Broadway #2500 Oklahoma City, OK 73102	2821154	0	UL 1, Sec. 33, T-18-S, R-28-E Battery/Buchanan 33 No. 1 location.
000990	ARCO PO Box 1610 Midland, TX 79702	2821417	G	UL 6, Sec. 4, T-19-S, R-28-E Meter on well location.

IV. Produced Water

23 POD	24 POD ULSTR Location and Description
2821156	UL 1, Sec. 33, T-18-S, R-28-E Battery/Buchanan 33 St. No. 1

V. Well Completion Data

25 Spud Date	26 Ready Date	27 TD	28 FBTD	29 Performances	30 DHC, DC, MC
8/12/99	9/4/99	11,115'	10,815' CIRP	9687-11,145' OH	
31 Hole Size	32 Casing & Tubing Size	33 Depth Set	34 Sacks Cement		
See Original					
	2 7/8"	9836'			

VI. Well Test Data

35 Date New Oil	36 Gas Delivery Date	37 Test Date	38 Test Length	39 Tbg. Pressure	40 Csg. Pressure
9/4/99	11/10/99	11/16/99	24	500	65
41 Choke Size	42 Oil	43 Water	44 Gas	45 AOF	46 Test Method
	12	24	11		Pumping

47 I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: *Kelly Cook*

Printed name:

Kelly Cook

Title:

Records Processor

Date: 11/17/99

Phone: 393-7106

Approved by:

Title:

Approval Date:

OIL CONSERVATION DIVISION

47 If this is a change of operator fill in the OGRID number and name of the previous operator

Previous Operator Signature	Printed Name	Title	Date

Submit to Appropriate
District Office
State Lease - 6 copies
Fee Lease - 3 copies
DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 Pacheco St.

Santa Fe, NM 87505

Form C-105
Revised 1-1-89

WELL COMPLETION OR RECOMPLETION REPORT AND LOG						WELL API NO. 30-015-30060	
1a. Type of Well: OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER _____						5. Indicate Type Of Lease STATE ☒ FEE ☐	
b. Type of Completion: NEW WELL ☐ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF RESVR ☐ OTHER <u>Drill Horizontal</u>						6. State Oil & Gas Lease No.	
2. Name of Operator Marathon Oil Company						7. Lease Name or Unit Agreement Name Henry Courtman 4 State Com	
3. Address of Operator P.O. Box 2409 Hobbs, NM 88240						8. Well No. 1	
4. Well Location Unit Letter <u>G</u> : <u>1780</u> Feet From The <u>North</u> Line and <u>1650</u> Feet From The <u>East</u> Line Section <u>4</u> Township <u>19-S</u> Range <u>28-E</u> NMPM <u>Eddy</u> County						9. Pool name or Wildcat Travis: Upper Penn	
10. Date Spudded 8/12/99	11. Date T.D. Reached 9/4/99	12. Date Compl.(Ready to Prod.) 9/4/99	13. Elevations(DP & RKB, RT, GR, etc.) GL 3533' KB 3549'	14. Elev. Casinghead			
15. Total Depth 11,115'	16. Plug Back T.D. 10,815' CIBP	17. If Multiple Compl. How Many Zones?	18. Intervals Drilled By	Rotary Tools	Cable Tools		
19. Producing Interval(s), of this completion - Top, Bottom, Name Travis: Upper Penn Curve: 9687-9872' Ltr1 1: 9872-10,782' Ltr1 2: 10,139-11,145'						20. Was Directional Survey Made Yes-See Attached	
21. Type Electric and Other Logs Run						22. Was Well Cored	
23. CASING RECORD (Report all strings set in well)							
CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD		AMOUNT PULLED	
See Original							
24. LINER RECORD				25. TUBING RECORD			
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2 7/8"	9836'	
26. Perforation record (interval, size, and number)				27. ACID, SHOT, FRACTURE, CEMENT, SOEEZE, ETC.			
Curve: 9687-9872' MD Open hole				DEPTH INTERVAL			
Lateral 1: 9872-10,782' MD 9798-9717' TVD Open Hole				AMOUNT AND KIND MATERIAL USED			
Lateral 2: 10,139-11,145' MD 9758-9682' TVD Open Hole				9476-9663 Cmt sqz w/300 sxs cmt			
				#2 10,603-11,145 Acid frac w/10,584 gals purgel.			
				20,454 gals acid			
28. PRODUCTION							
Date First Production 9/4/99		Production Method (Flowing, gas lift, pumping - Size and type pump) Pumping				Well Status (Prod. or Shut-In) Producing	
Date of Test 11/16/99	Hours Tested 24	Choke Size	Prod'n For Test Period	Oil - Bbl. 12	Gas - MCF 11	Water - Bbl. 24	Gas - Oil Ratio 917
Flow Tubing Press. 500	Casing Pressure 65	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API (Corr.)	
29. Disposition of Gas (Sold, used for fuel, vented, etc.) Sold						Test Witnessed By	
30. List Attachments Directional Survey							
31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief							
Signature <u>Kelly Cook</u>			Printed Name <u>Kelly Cook</u>		Title <u>Records Processor</u>		Date <u>11/17/99</u>

Henry Courtman 4 State Com No. 1
Working Interest Owners

%

Marathon Oil Company
125 W. Missouri
Midland, TX 79702

83.66574

Reed & Stevens, Inc.
Oil Producers
P.O. Box 1518
Roswell, NM 88202

.78125

Roy G. Barton, Jr., Trustee
P.O. Box 978
Hobbs, NM 88241

.78125

Yates Petroleum Corporation
105 S. Fourth
Artesia, NM 88210

14.77176

100.0000

Horizontal Completion

TRAVIS FIELD

Co. Man: Adan R Ramirez

KB: 16'

Rod Report

Pump Report

No. of Jts & Rods Returned :

✦over Report

Mid-Continent Region @ 0600 Hrs CST

Well Name:	Henry Courtman "4" St. #1		Field:	Travis	State:	NM	County:	Eddy
Rpt Date:	10/29/99	Actual Day:	AFE Days:	7	AFE #:	306498	Co Man:	Adan R Ramirez (drh)
Present Op:	Waiting on pump jack.					Rig: Key # 352		
Purpose:	Pull whipstock, Rod up							
Last PBTD:	Current PBTD: 10,815' Vert. Hole CIBP				No	Accidents Reported In Last 24 Hrs		
Orig Perfs:	9724'-43', 9760'-70', 9775'-84', 9919'-26'				New Perfs: 4 3/4" OH- 9687'-11,145'			
Tot Load 1:	1,394	TR (BO): 32	TR (BW): 600	TLTR (BW): 632	Csg/Lnr #1: 5 12" csg 17# & 20#			
Tot Load 2:	130	TR (BO):	TR (BW):	TLTR (BW): 130	Csg/Lnr #2:			

Operations Summary

RIH w/ insert pump on 7/8" steel rods & 1 1/2" Fibercom rods. Seated & loaded tbg & tested pump. O.K.

R/D rig & released.

[illegible]

Daily Cost: 25,075 Cum Cost: 201,077 Drill & Comp: 560,531 AFE: 100,000
<http://mweb.mid.mcc.com/allmcc/drilling/reports/Today.xls> 10/29/99

<http://mweb.mid.moc.com/allmoc/drilling/reports/Today.xls> 10/29/99

•kover Report

Mid-Continent Region @ 0600 Hrs CST

Well Name:	Henry Courtman "4" St. #1		Field:	Travis		State:	NM		County:	Eddy				
Rpt Date:	10/28/99 Actual Day:		AFE Days:	6		AFE #:	306498		Co Man:	BC Holmes				
Present Op:	Run rods on Monday							Rig:	Key # 352					
Purpose:	Pull whipstock, Rod up													
Last PBTD:						Current PBTD:	10,815' Vert. Hole CIBP					No Accidents Reported In Last 24 Hrs		
Orig Perfs:	9724'-43', 9760'-70', 9775'-84', 9919'-26'					New Perfs:	4 3/4" OH- 9687'-11,145'							
Tot Load 1:	1,394		TR (BO):	32		TR (BW):	600		TLTR (BW):	632		Csg/Lnr #1:	5 12" csg 17# & 20#	
Tot Load 2:	130		TR (BO):			TR (BW):			TLTR (BW):	130		Csg/Lnr #2:		

Operations Summary

0 psi on tbg & csg. RIH w/ 4 5/8" bit, Bulldog Bailer t/ 9765'. Clean fill t/ 10,200'. POOH w/ Bailer. Unloaded Bailer.

tbgs. RI t/ 10800'. Spotted packer in rathole. L/D 28 jts. Landed SN @ 9808'. TAC- 9692'.

ND BOP. Set TAC. NU Wellhead. SIFN

[illegible]

Daily Cost: 1,754 Cum Cost: 176,002 Drill & Comp: 535,456
http://mweb.mid.moc.com/allmoc/drilling/reports/Thursday%2010/29/99

AFE: 100,000

Well Name:	Henry Courtman "4" St. #1		Field:	Travis		State:	NM		County:	Eddy	
Rpt Date:	10/27/99 Actual Day: 17		AFE Days:	6		AFE #:	306498		Co Man:	A.R.Ramirez (drh)	
Present Op:	RIH w/ production tbg.							Rig:	Key # 352		
Purpose:	Pull whipstock, Rod up										
Last PBTD:						Current PBTD:	10,815' Vert. Hole CIBP			No	Accidents Reported In Last 24 Hrs
Orig Perfs:	9724'-43', 9760'-70', 9775'-84', 9919'-26'					New Perfs:	4 3/4" OH- 9687'-11,145'				
Tot Load 1:	1,394		TR (BO):	32		TR (BW):	600		TLTR (BW):	632	
	Csg/Lnr #1: 5 12" csg 17# & 20#										
Tot Load 2:	130		TR (BO):			TR (BW):			TLTR (BW):	130	
	Csg/Lnr #2:										

Operations Summary

0 psi on tbg & csg. RIH w/ 4 5/8" bit, Bulldog Bailer t/ 9765'. Clean fill t/ 9868'. POOH w/ Bailer. Unloaded Bailer.

RIH w/ killstring & SIFN.

[illegible]

Daily Cost: 2,593 Cum Cost: 176,841 Drill & Comp: 536,295

AFE: 100,000

•kover Report

Mid-Continent Region @ 0600 Hrs CST

Well Name:	Henry Courtman "4" St. #1		Field:	Travis		State:	NM		County:	Eddy		
Rpt Date:	10/26/99	Actual Day:	16	AFE Days:	6	AFE #:	306498		Co Man:	BC Holmes	(drh)	
Present Op:	Run rods on Monday							Rig:	Key # 352			
Purpose:	Pull whipstock, Rod up											
Last PBTD:						Current PBTD:	10,815' Vert. Hole CIBP			No	Accidents Reported In Last 24 Hrs	
Orig Perfs:	9724'-43', 9760'-70', 9775'-84', 9919'-26'					New Perfs: 4 3/4" OH- 9687'-11,145'						
Tot Load 1:	1,394	TR (BO):	32	TR (BW):	600	TLTR (BW):	632	Csg/Lnr #1: 5 12" csg 17# & 20#				
Tot Load 2:	130	TR (BO):		TR (BW):		TLTR (BW):	130	Csg/Lnr #2:				

Operations Summary

0 psi on tbg & csg. RIH w/ 4 5/8" bit, Bulldog Bailer to 9765'. Clean fill to 9868'. POOH w/ Bailer. Unloaded Bailer.

RIH w/ killstring & SIFN.

[illegible]

Daily Cost: 3,040 Cum Cost: 174,248 Drill & Comp: 533,702
http://mweb.mid.moc.com/allmoc/drillingreports/Tuesday.xls 10/29/99

AFE: 100,000

Mid-Continent Region @ 0600 Hrs CST

Well Name:	Henry Courtman "4" St. #1		Field:	Travis	State:	NM	County:	Eddy	
Rpt Date:	10/24/99	Actual Day:	15	AFE Days:	6	AFE #:	306498	Co Man:	BC Holmes
Present Op:	Monday - RIH. Clean out fill						Rig:	Key # 352	
Purpose:	Pull whipstock, Rod up								
Last PBTD:					Current PBTD:	10,815' Vert. Hole CIBP	No	Accidents Reported In Last 24 Hrs	
Orig Perfs:	9724'-43', 9760'-70', 9775'-84', 9919'-26'				New Perfs: 4 3/4" OH- 9687'-11,145'				
Tot Load 1:	1,394	TR (BO):	32	TR (BW):	600	TLTR (BW):	632	Csg/Lnr #1: 5 12" csg 17# & 20#	
Tot Load 2:	130	TR (BO):		TR (BW):		TLTR (BW):	130	Csg/Lnr #2:	

Operations Summary

0 psi on tbg and csg. Drilled CIBP at 9692'. Bit and bailer fell to 9724'. (top of perfs) Bailed fill to 9790'.

TOOH. Unloaded bailer. RIH to 2000'. SI for Sunday.

[illegible]

•kover Report

Mid-Continent Region @ 0600 Hrs CST

Well Name:	Henry Courtman "4" St. #1		Field:	Travis	State:	NM	County:	Eddy	
Rpt Date:	10/24/99	Actual Day:	15	AFE Days:	6	AFE #:	306498	Co Man:	BC Holmes
Present Op:	Monday - RIH. Clean out fill						Rig:	Key # 352	
Purpose:	Pull whipstock, Rod up								
Last PBTD:	Current PBTD: 10,815' Vert. Hole CIBP				No	Accidents Reported In Last 24 Hrs			
Orig Perfs:	9724'-43', 9760'-70', 9775'-84', 9919'-26'				New Perfs: 4 3/4" OH- 9687'-11,145'				
Tot Load 1:	1,394	TR (BO):	32	TR (BW):	600	TLTR (BW):	632	Csg/Lnr #1:	5 12" csg 17# & 20#
Tot Load 2:	130	TR (BO):		TR (BW):		TLTR (BW):	130	Csg/Lnr #2:	

Operations Summary

0 psi on tbg and csg. Drilled CIBP at 9692'. Bit and bailer fell to 9724'. (top of perms) Bailed fill to 9790'.

TOOH. Unloaded bailer. RIH to 2000'. SI for Sunday.

[illegible]

Daily Cost: 3,190	Cum Cost: 177,438	Drill & Comp: 536,892	AFE: 100,000
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•kover Report

Mid-Continent Region @ 0600 Hrs CST

Well Name:	Henry Courtman "4" St. #1		Field:	Travis		State:	NM		County:	Eddy	
Rpt Date:	10/23/99 Actual Day: 14		AFE Days:	6		AFE #:	306498		Co Man:	BC Holmes	
Present Op:	Drill out CIBP							Rig:	Key # 352		
Purpose:	Pull whipstock, Rod up										
Last PBTD:						Current PBTD:	10,815' Vert. Hole CIBP				
							No	Accidents Reported In Last 24 Hrs			
Orig Perfs:	9724'-43', 9760'-70', 9775'-84', 9919'-26'					New Perfs:	4 3/4" OH- 9687'-11,145'				
Tot Load 1:	1,394	TR (BO):	32	TR (BW):	600	TLTR (BW):	632	Csg/Lnr #1:	5 12" csg 17# & 20#		
Tot Load 2:	130	TR (BO):		TR (BW):		TLTR (BW):	130	Csg/Lnr #2:			

Operations Summary

0 psi on tbg & csg. PU Re-cut 3-1/2" Weatherford Drill bailer. RIH w/ same on Sand line.

Knocked down on CIBP at 9692'. POOH w/ bailer. Found bailer damaged. Shoulder flared out - again.

Waited on Bulldog bailer. TIH w/ 4-3/4" bit & Bulldog bailer to 9692'. Drilled on plug for 1-1/2 hrs. PU. SIFN

[illegible]

AFE: 100,000

Mid-Continent Region @ 0600 Hrs CST

Operations Summary

[illegible]

Marathon Oil Company

Well Bore Schematic

Bottom flange on Tree 7 1/16" 5M)

{ No scale }

Tubing Hanger (Wraparound in head) Screw type

Tubing Head 11" 3M x 7 1/16" 3 Need combo bolts & ring 1500 series Tree X 900 series head.

"B" section 13 5/8" 3M x 11" 3M

Casing Head 13 5/8" 3M SOW

AFE 306498

Well Name **Henry Courtman "4" #1**
Diagram Date **36442**
Location Surf. **1780' FNL & 1650' FEL Sec. 4, T-19-S, R-28-E**
Field **Travis**
County **Eddy**
State **New Mexico**
G.L. Elevation **3533'**
K.B. Elevation **3549'**

CONDUCTOR 40' of 20" GL
Cement w/ Ready-Mixed to surface

CASING Surface 13 3/8", 48#, H-40, set @ 440'
Cement w/
Cement 420 sks Class C w/ additives (Circ 143 sks)

CASING Intermediate 9 5/8", 36#, K-55, STC Set @ 2958'
Cement w/
Cement 750 sks Class C w/ additives (Circ 178 sks)

Top of cement 3540'

DV tool 8514' 307 jts of 2 7/8" L-80
Tubing 9596.83' of 2 7/8" L-80, on/off tool w/ 2.313 "X" profile. @ 9612.83'
Sszq perfs Howco PSL packer @ 9614.09', 2.205 "XN" seating nipple @ 9618.59'.
KOP- Collar w/re-entry guide @ 9619.57'.
End of Curve 9476'-83', 9542'-51', 9564'-74', 9660'-63', 9671'-73'

Y- 9687'
9872'
10,319'

CIBP 9692'
Abandoned Perfs 9724'-43', 9760'-70', 9775'-84', 9919'-26', 10, 898'-10918'
CIBP 10,815'
FLOAT COL. 11,024'
SHOE 11,114'
TD 11,115'

Production csg

TD- 1 st lateral @ 10,782' (4 3/4" OH)

TD 2 nd lateral 11,145' (4 3/4" OH)

5 1/2" 17#, 20#, L-80, LTC set @ 11115'
Cemented w/ 1st. Stage- 760 sks, circ 22 sks
2 nd stage- 1350' sks TOC @ 3540'

Mid-Continent Region @ 0600 Hrs CST

Operations Summary

(well tried to flow 10 to 15 mins after swab runs. Fluid fluxing up & down tbg.)

Daily Cost:	1.100	Cum Cost:	156,788	Drill & Comp:	516,242	AFE:	100,000
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Mid-Continent Region @ 0600 Hrs CST

Operations Summary
.Swabbed well into frac tank.Made 23 swab runs,recovered 97 bbl's wtr.Fluid level @ 4700'.
Secure well & SIFN.
(well tried t/ flow f/ 5 t/ 10 mins after swab runs.Fluid fluxing up & down tbg.)

Court4_1HDH.xls 10/20/99

Mid-Continent Region @0600 Hrs CST

Court4 1HDH.xls 10/20/99

Mid-Continent Region @ 0600 Hrs CST

Operations Summary

[illegible]

Mid-Continent Region @ 0600 Hrs CST

Operations Summary
Well blew down .Released UNI-5 pkr & POOH w/ tbg L/D pkr & PH-6 pipe.
RIH w/ prod tbg & cir pkr fluid t/ surface.Set pkr & N/D bop & R/U tree.Tested pkr
R/D rig.

Operations Summary

R/D rig.

11

AFE: 100,000

Marathon Oil Company Daily Completion - Workover Report

Mid-Continent Region @ 0600 Hrs CST

Well Name:	Henry Courtman "4" St. #1		Field:	Travis	State:	NM	County:	Eddy	
Rpt Date:	10/12/99	Actual Day:	6	AFE Days:	6	AFE #:	306498	Co Man:	Adan R Ramirez-(rlk)
Present Op:	Flowing back well to frac tank.						Rig:	Key # 347	
Purpose:	Acidize Strawn HDH								
Last PBDT:					Current PBDT:	11130'	No	Accidents Reported In Last 24 Hrs	
Orig Perfs:	9724'-43', 9542'-51', 9564'-74', 9660'-63', 9671'-73'				New Perfs:	4 3/4" OH- 9687'-11,145'			
Tot Load 1:	1,394	TR (BO):		TR (BW):	220	TLTR (BW):	1,174	Csg/Lnr #1:	5 12" csg 17# & 20#
Tot Load 2:		TR (BO):		TR (BW):		TLTR (BW):		Csg/Lnr #2:	

Operations Summary

POOH w/ pkr. RIH w/ bull nose & PH-6 pipe w/ jet subs spaced out.Pumped chemical pkr & set pkr to frac well.

Frac well w/ high rate & pressure.R/D Halliburton. Flowing well back to frac tank.Recovered 220 bbls.

Start	End	Hours	Operations In Sequence
8:00	8:30	0.5	POOH w/ killstring & 5 1/2" Uni-5 Pkr.
8:30	14:00	5.5	RIH w/ 2 7/8" AOH Bullnose,1-jt 2 7/8" AOH pipe, X-over sub f/ 2 7/8" AOH t/ 2 7/8" PH-6 2-jts 2 7/8" PH-6, Jet sub,4-jts 2 7/8" PH-6,Jet sub,10-jts 2 7/8" PH-6,Jet sub,42-jts 2 7/8" PH-6,X-over sub,5 1/2" UNI-5 Guiberson pkr w/ L.H. Set. & 297 jts of 2 7/8" L-80 8rd tbg t/ surface.Hydro-test tbg t/ 8000PSI f/ pkr t/ surface.Tagged up on 2nd lateral @ 11145'. Spaced out tbg.Btm of bullnose @ 11137',btm jet @ 11039.91'-11041.66',2nd jet @ 10914.99' t/ 10916.64'. 3rd jet @ 10603.57'-10605.32',Pkr @ 9298.83'.
14:00	14:30	0.5	R/U Halliburton & held safety meeting. Tested lines to 3000 psi.
14:30	15:45	1.25	Started pumping 12bbl's 50# gel sweep,2000 gal. Breaker wtr w/ KCL & SP,1000 gal spacer KCL w/ HYG-3-2000 gal. Chemical pkr,Shut down & dropped wiper plug. Displaced wiper plug w/ 2300 gals 28% acid w/ 9 bbls flush wtr w/ KCL.Bumped plug. (Took 20 t/22 bbls before we broke circulation)
15:45	16:00	0.25	Worked & set UNI-5 pkr.
16:00	17:00	1	Loaded annulas t/ test pkr t/ 1000 psi.No good.
17:00	17:15	0.25	Worked UNI-5 pkr up & down & reset.Setting 30000# on pkr.
17:15	17:30	0.25	Tested pkr t/ 1000# O.K. & reset POP of on wellhead.
17:30	22:30	5	R/U Halliburton Frac.Tested lines t/ 9000#.O.K.Pumped 10584 gals Purgel,20454 gals ZCA acid.Tagging acid w/ SC-46 w/ 26 mil.Flushed w/ 9345 gals w/ flush & overflush. Max rate 16.5 BPM Max pressure 8388 PSI Avg rate 15.2 BPM Avg pressure 7398 PSI ISTP 3850 psi,5 min shut in 3610 psi,10 min shut-in 3534 psi, 15 min shut-in 3476 psi. R/D Halliburton
22:30	6:00	7.5	Flow back well t/ frac tank.Recovered 220bbls.Recovered most of the fluid in first 3HR. Avg now is about 10 bbls an hr last 3 hr. (30/64" choke)
Total Hours Today		22	
Daily Cost: 81,843			Cum Cost: 143,463
			Drill & Comp: 502,917
			AFE: 100,000

4over Report

Mid-Continent Region @ 0600 Hrs CST

Well Name:	Henry Courtman "4" St. #1		Field:	Travis		State:	NM		County:	Eddy	
Rpt Date:	10/11/99 Actual Day: 5		AFE Days:	6		AFE #:	306498		Co Man:	BC Holmes-(rlk)	
Present Op:	PU 2 7/8" production tbg.							Rig:	Key # 347		
Purpose:	Acidize Strawn HDH										
Last PBTD:						Current PBTD:	11130'		No	Accidents Reported In Last 24 Hrs	
Orig Perfs:	9724'-43', 9542'-51', 9564'-74', 9660'-63', 9671'-73'					New Perfs:	4 3/4" OH- 9687'-11,145'				
Tot Load 1:	TR (BO):		TR (BW):		TLTR (BW):		Csg/Lnr #1:				
Tot Load 2:	TR (BO):		TR (BW):		TLTR (BW):		Csg/Lnr #2:				

Operations Summary

PU 9 jts of 2/8" tbg off rack. Packer stopped @ 282'. Could not release. Ran string shot. Backed off @ 251'. (1 jt above prk)

RIH w/ overshot DC & jars. Jarred packer free. L/D packer. Ck OK. RI w/ 4 3/4" bit, 5 1/2" scraper. RI t/ 360'.

Did not tag any obstruction. RIH w/ new Uni-V packer t/ 360'. Did not tag up. SIFN

[illegible]

Daily Cost: 8,160 Cum Cost: 61,620 Drill & Comp: 421,074

AFE: 100,000

Mid-Continent Region @ 0600 Hrs CST

Well Name:	Henry Courtman "4" St. #1		Field:	Travis		State:	NM		County:	Eddy	
Rpt Date:	10/10/99 Actual Day: 4		AFE Days:	6		AFE #:	306498		Co Man:	BC Holmes-(rlk)	
Present Op:	PU 2 7/8" production tbg.							Rig:	Key # 347		
Purpose:	Acidize Strawn HDH										
Last PBTD:						Current PBTD:	11130'		No	Accidents Reported In Last 24 Hrs	
Orig Perfs:	9724'-43', 9542'-51', 9564'-74', 9660'-63', 9671'-73'					New Perfs:	4 3/4" OH- 9687'-11,145'				
Tot Load 1:	TR (BO):		TR (BW):		TLTR (BW):		Csg/Lnr #1:				
Tot Load 2:	TR (BO):		TR (BW):		TLTR (BW):		Csg/Lnr #2:				

POOH. L/D 2 7/8" tbg. Stood back 2 7/8" PH-6 tbg. Servalal jts externally pitted.RIH w/ 57 jts of 2 7/8" PH-6 tbg. Re-dress subs. SIFN

[illegible]

Well Name:	Henry Courtman "4" St. #1		Field:	Travis	State:	NM	County:	Eddy	
Rpt Date:	10/9/99	Actual Day:	3	AFE Days:	6	AFE #:	306498	Co Man:	BC Holmes-(rlk)
Present Op:	POOH L/D production tbg						Rig:	Key # 347	
Purpose:	Acidize Strawn HDH								
Last PBTD:					Current PBTD:	11130'			
					No	Accidents Reported In Last 24 Hrs			
Orig Perfs:	9724'-43', 9542'-51', 9564'-74', 9660'-63', 9671'-73'					New Perfs:	4 3/4" OH- 9687'-11,145'		
Tot Load 1:	TR (BO):		TR (BW):		TLTR (BW):		Csg/Lnr #1:		
Tot Load 2:	TR (BO):		TR (BW):		TLTR (BW):		Csg/Lnr #2:		

Operations Summary

RIH w/ 2 7/8" , L-80 tbg. Tagged TD @ 11,133'. Pumped gel sweep. Spotted Chemical packer. Dropped tbg plug.

Disp w/ 28% HCL. Set packer @ 9314'. Tested back side.RU Frac equip. Pumped 2000 gals of Purgel @ 9 1/2 BPM @ 7500 psi.

(Had communication to annulas side.) Released packer & attempted to reset. Packer would not set.

POOH w/ 30 stds of tbg. SIFN

Start	End	Hours	Operations In Sequence
			80 psi on tbq. Bled off. No csg pressure.
8:00	9:00	1	RIH w/ 2 7/8" tbq. Entered 2 nd lateral t/ 11,133'. Jet subs @ 11035', 10900', 10606'.
9:00	10:30	1.5	RU Halliburton. Pumped 12 bbls of 50# gel sweep. Pumped 240 bbls of 2% behind sweep.
10:30	14:45	4.25	Held safety meeting. Tested lines t/ 9000 psi. Spotted 2000 gals of preflush, 1000 gals of gelled spacer, and 1050 gals of Chemical packer. Displaced wiper plug w/ 28% HCL acid to top of bent jt. @ 11098'. (Max pressure- 7500 psi @ 2 BPM.) Set packer @ 9314'. Tested back side t/ 400 psi.
14:45	16:15	1.5	Shut down for 1 hr. RU frac equipment.
16:15	17:00	0.75	Held safety meeting. Tested lines t/ 10000 psi. Pumped 2,000 gals of Purgel LT-30 @ 9.5 BPM @ 7500 psi. Pressure on backside built to 1100 psi. Shut down to allow acid to work on formation. Had direct communication from tbq to annulus. Displaced acid to bottom @ 11,133'.
17:00	17:30	0.5	Released packer. Attempted to reset. Could not set packer.
17:00	18:00	1	POOH w/ 30 stds of tbq. SIFN
			Tbg string is pitted on outside. Will lay down all tbq & replace with new tbq. Hole in tbq or packer failed.
Total Hours Today		10.5	

Daily Cost: 5.364

Cum Cost: 19.604

Drill & Comp: 379,058

AFE: 100,000

Mid-Continent Region @ 0600 Hrs CST

[illegible]

Mid-Continent Region @ 0600 Hrs CST

Well Name:	Henry Courtman "4" St. #1			Field:	Travis	State:	NM	County:	Eddy
Rpt Date:	10/5/99	Actual Day:	1	A/E Days:	6	A/E #:	306498	Co Man:	BC Holmes (wjt)
Present Op:	RIH w/ 2 7/8" prod tbg.							Rig:	Key # 347
Purpose:	Acidize Strawn HDH								
Last PBTD:						Current PBTD:	11145'	No	Accidents Reported In Last 24 Hrs
Orig Perfs:	9724'-43', 9542'-51', 9564'-74', 9660'-63', 9671'-73'					New Perfs:	4 3/4" OH- 9687'-11,145'		
Tot Load 1:	TR (BO):		TR (BW):		TLTR (BW):		Csg/Lnr #1:		
Tot Load 2:	TR (BO):		TR (BW):		TLTR (BW):		Csg/Lnr #2:		
Operations Summary									
MIRU.Pumped 20 bbls of 2% KCL down tbg. ND Tree. NU BOP. Tested to 2500 psi. Released PSL. POOH.									
PU BN, 1-jt of AOH, 2 jts of PH-6 Ported sub,4 jts, of PH-6, Ported sub,10 jts of PH-6, Ported sub, 40 jts of 2 7/8" PH-6.									
Hydro-tested to 8500 psi. SIFN									
Start	End	Hours	Operations In Sequence						
8:00	9:30	1.5	MIRU Key # 347						
9:30	11:00	1.5	Pumped 20 bbls of 2% KCL water down tbg. ND Tree. NU 7 1/16" 5M BOP.						
11:00	11:30	0.5	Tested Pipe rams V 2500 psi. Tested above hanger.						
11:30	12:00	0.5	Jayed off packer. Equalized fluid. Jayed onto packer. Released 5 1/2" PSL.						
12:00	15:30	3.5	POOH w/ 2 7/8" tbg.(SLM)						
15:30	16:30	1	Waited on Halliburton tools.						
16:30	19:00	2.5	PU Bull Nose, 1-jt of AOH, 2 jts of PH-6 Ported sub,4 jts, of PH-6, Ported sub,10 jts of PH-6,						
			Ported sub, 40 jts of 2 7/8" PH-6. Hydrotested to 8500 psi. SIFN						
Total Hours Today		11							
Daily Cost:	4,870	Cum Cost:	4,870	Drill & Comp:	364,254	AFE: 100,000			

Marathon Oil Company
Midland, Texas

RPT#: 24
AFE#: 306498
AFE Total Depth: 11,265 MD

Date: 9/8/99
GL: 3,533'
County: EDDY

Location Days: 24
KB: 16(11)
State: NEW MEX

Spud Days: 24
MOC WI: 83.7
MOC NI: 66.3

WELL NAME: COURTMAN # 1		RIG: KEY SWAB RIG		FTG: 0'		DEPTH:(MD) 11,145'		(TVD) 9,682'	
CSG SIZE: 5 1/2"		CSG MD: 11,115'		CSG TVD: 11,115'		SHOE TEST:		MAX. SI:	
LINER TOP:									
PRESENT OP: Rig Released									
EXECUTIVE SUMMARY		Swabbed 225 bbls fluid in three days (33 hrs) Fluid level staying around 8500-9300' from surface. Oil cut increased to 40% on the third day. Rig down and released Key Rig.							
MW	VIS	PV	YP	GELS	WL	SLD	OIL	WTR	MUD LOSSES
pH	Pm	Pf	Mf	CL	CA	LIME	BKGD	CONN	TRIP
BIT#	SIZE	COMPANY	TYPE	SERIAL#	OFF	FTG	HRS	FT/HR	RPM
BIT#	I O D L B G O T R		PRESS.	GPM	JETS	TFA	ANNULAR VELOCITY		BIT HP
BHA #:									
Length:									
DRILL PIPE DESCRIPTION: MAX PULL:									
DLY ROT HRS	CUM ROT HRS	JARS	TORQUE	WEIGHT (1000)			BHA:		
				Pu:	Rot:	So:	Eff:		
MEA. DEPTH	ANGLE	DIRECTION		TVD	VERT. SEC.		N/S	E/W	DOG LEG
11,050.00	94.200	23.50		9688.84	1266.22		1311.78	213.63	2.94
11,081.00	93.900	22.70		9686.65	1297.07		1340.23	225.76	2.75
11,145.00	93.900	22.70		9682.29	1360.75		1399.13	250.40	0.00
Start	End	Hours	Operations In Sequence						
7:00	18:00	11	9/3/1999 Swabbed tubing recovering 65 bbls fluid (no oil)						
			Initial fluid level - 2000' from surface. Final fluid level - 6000' from surface.						
			22 Swab runs. No pressure						
7:00	18:00	11	9/4/1999 Swabbed tubing recovering 84 bbls fluid (15% oil)						
			Initial fluid level - 6000' from surface. Final fluid level - 8800' from surface.						
			29 Swab runs. No pressure.						
7:00	18:00	11	9/8/1999 Swabbed tubing recovering 76 bbls fluid (40% oil)						
			Initial fluid level - 8500" from surface. Final fluid level - 9300' from surface.						
			21 Swab runs. Small gas pressure. Well would flow for 10-15 minutes before loading up.						
			Received orders to rig down. Evaluating results for acid recommendation.						
			Total fluid swabbed/recovered in three days - 225 bbls. (Appx .40 bbls oil)						
			Existing Sidetrack Lateral # 2 MD: 10,139-11,145 KB (1006') KOP @ 10,139 KB						
			Existing Lateral # 1 MD: 9872-10,782 KB (910')						
			Existing Curve MD: 9687-9872 KB (185') Existing Curve TVD: 9687-9798 KB (111')						
Total Hours Today		33	IS THIS REPORT CONTINUED ON NEXT PAGE ?????						
AFE: DH \$256,100		TST/CSG:	COMP:		TOT: \$309,150		LAST PIT DRILL DATE:		
MUD COST ACTUAL:		WELL COST ACTUAL:		LAST BOPE TEST DATE: 8/11/99					

Mid-Continent Region @0600 Hrs CST

Daily Cost:	Cum Cost:	Drill & Comp:	AFE:
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Mid-Continent Region @ 0600 Hrs CST

Operations Summary	

[illegible]

Mid-Continent Region @ 0600 Hrs CST

Well Name:	Henry Courtman 4 State No.1			Field:	Travis	State:	NM	County:	Eddy
Rpt Date:	9/4/99	Actual Day:		AFE Days:		AFE #:	306498	Co Man:	T. Kacir (drh)
Present Op:	Swabbing						Rig:	Key # 317	
Purpose:									
Last PBTD:				Current PBTD:				Accidents Reported In Last 24 Hrs	
Orig Perfs:	Curve: 9687'-9872' MD; Lateral #1: 9872'-10782' MD; Lateral #2: 10139'-11145' MD								
Tot Load 1:	TR (BO):		TR (BW):		TLTR (BW):		Csg/Lnr #1: 5.5", 17 & 20#, L-80 @ 11,115'		
Tot Load 2:	TR (BO):		TR (BW):		TLTR (BW):		Csg/Lnr #2:		

Operations Summary

[illegible]

Marathon Oil Company
Midland, Texas

RPT#: 23
AFE#: 306498
AFE Total Depth: 11,265 MD

Date: 9/3/99
GL: 3,533'
County: EDDY

Location Days: 23
KB: 16(11)
State: NEW MEX

Spud Days: 23
MOC WI: 83.7
MOC NI: 66.3

WELL NAME: COURTMAN # 1 RIG: KEY # 117 FTG: 0' DEPTH:(MD) 11,145' (TVD) 9,682'

CSG SIZE: 5 1/2" CSG MD: 11,115' CSG TVD: 11,115' SHOE TEST: MAX. SI:

LINER TOP:

PRESENT OP: Rig Released

EXECUTIVE SUMMARY
Finished running 2 7/8" production tubing. Set packer. Pumped packer fluid. Jayed on on-off tool
Tested packer 500 # N/D BOP'S. N/U same wellhead tubing valves. Released Key 117 at 6:00 PM

MW	VIS	PV	YP	GELS	WL	SLD	OIL	WTR	MUD LOSSES

pH	Pm	Pf	Mf	CL	CA	LIME	BKGD	CONN	TRIP	MAX

BIT#	SIZE	COMPANY	TYPE	SERIAL#	OFF	FTG	HRS	FT/HR	RPM	WOB	CPF
3	4 3/4"	Reed	EHP53AK	W12289	11,145'	611'	81	7.5	192	6-45K	

BIT#	IODLBGOTR	PRESS.	GPM	JETS	TFA	ANNULAR VELOCITY	BIT HP
3	3/3/CT/G1/EI/WT/TD	2300	120	open		205	

BHA #:	Length:

DRILL PIPE DESCRIPTION:

MAX PULL:

DLY ROT HRS	CUM ROT HRS	JARS	TORQUE	WEIGHT (1000)	BHA:		
10.50	279.75			Pu:	Rot:		
				So:	Eff:		
MEA. DEPTH	ANGLE	DIRECTION	TVD	VERT. SEC.	N/S	E/W	DOG LEG
11,050.00	94.200	23.50	9688.84	1266.22	1311.78	213.63	2.94
11,081.00	93.900	22.70	9686.65	1297.07	1340.23	225.76	2.75
11,145.00	93.900	22.70	9682.29	1360.75	1399.13	250.40	0.00

Start	End	Hours	Operations In Sequence
6:00	18:00	12	Finished running 320 jts 2 7/8" production tubing, on-off tool, packer, and profile nipple.
			Set 5 1/2 " HES packer at 9,638 KB. Un-jay off on-off tool and circulated Nalco Packer fluid
			Latched on-off tool and tested packer to 500 #. N/D BOP stack. N/U same wellhead
			Tubing Valve Assembly.
			Rigging down Key 117 - Released rig at 6:00 PM 9-2-99
			Existing Sidetrack Lateral # 2 MD: 10,139-11,145 KB (1006') KOP @ 10,139 KB
			Existing Lateral # 1 MD: 9872-10,782 KB (910')
			Existing Curve MD: 9687-9872 KB (185') Existing Curve TVD: 9687-9798 KB (111')
Total Hours Today		12	IS THIS REPORT CONTINUED ON NEXT PAGE ?????

AFE: DH	\$256,100	TST/CSG:	COMP:	TOT: \$309,150	LAST PIT DRILL DATE:
MUD COST ACTUAL:			WELL COST ACTUAL:		LAST BOPE TEST DATE: 8/11/99

Marathon Oil Company
Midland, Texas

RPT#: 22

Date: 9/2/99

Location Days: 22

Spud Days: 22

AFE#: 306498

GL: 3,533'

KB: 16(11)

MOC WI: 83.7

AFE Total Depth: 11,265 MD

County: EDDY

State: NEW MEX

MOC NI: 66.3

WELL NAME: COURTMAN # 1 RIG: KEY # 117 FTG: 77' DEPTH:(MD) 11,145' (TVD) 9,682'

CSG SIZE: 5 1/2" CSG MD: 11,115' CSG TVD: 11,115' SHOE TEST: MAX. SI:

LINER TOP:

PRESENT OP: Running 2 7/8" Production Tubing

EXECUTIVE SUMMARY
Drilled and finished Sidetrack Lateral # 2 rotating from 11,068-11,145 KB (TD). Circulate fresh water.
TOH to 10,125 KB. TIH and circulate at the end of the first lateral at 10,782. TOH w/ lateral drilling assembly laying.
Running 2 7/8" Production tubing This AM

MW	VIS	PV	YP	GELS	WL	SLD	OIL	WTR	MUD LOSSES		
8.4	34	2	7	0/1	12.5	TR		100.0			
pH	Pm	PI	Mf	CL	CA	LIME	BKGD	CONN	TRIP	MAX	
11.4		0.3	0.8	950	60		3 - 10	15			
BIT#	SIZE	COMPANY	TYPE	SERIAL#	OFF	FTG	HRS	FT/HR	RPM	WOB	CPF
3	4 3/4"	Reed	EHP53AK	W12289		77'	10.5	7.3	192	6-45K	
					ACC	611'	81	7.5	192	6-45K	
BIT#	IODLBGOTR			PRESS.	GPM	JETS	TFA	ANNULAR VELOCITY			BIT HP
3				2300	120	open		205			

BHA #: 5 4 3/4" Bit, 1.83 Lateral motor, Float sub, Gr sub, Flex collar, SS sub,
Length: 96.01 Flo-sub, SS sub, crossover, Slick Monel, crossover

DRILL PIPE DESCRIPTION: 2 7/8" American Open Hole (Weatherford) MAX PULL:

DLY ROT HRS	CUM ROT HRS	JARS	TORQUE	WEIGHT (1000)			BHA:	
10.50	279.75			Pu: 110000	Rot: 98000	So:	Eff:	
MEA. DEPTH	ANGLE	DIRECTION		TVD	VERT. SEC.	N/S	E/W	DOG LEG
11,050.00	94.200	23.50		9688.84	1266.22	1311.78	213.63	2.94
11,081.00	93.900	22.70		9686.65	1297.07	1340.23	225.76	2.75
11,145.00	93.900	22.70		9682.29	1360.75	1399.13	250.40	0.00

Start	End	Hours	Operations In Sequence
6:00	16:30	10.5	Drilled and finished sidetrack Lateral # 2 rotating 11,068-11,145 KB with full returns. (TD)
16:30	18:00	1.5	Circulate fresh water to reserve pit.
18:00	20:30	2.5	L/D 32 jts drill pipe and ran bit/motor into first lateral to 10,782 KB
20:30	22:00	1.5	Circulate fresh water to reserve pit.
22:00	5:00	7	TOH w/ lateral drilling assembly laying down drill pipe and motor.
5:00	6:00	1	TIH w/ 5 1/2 " HES packer w/ on-off tool on same 2 7/8" production tubing. This AM
			Existing Sidetrack Lateral # 2 MD: 10,139-11,145 KB (1006') KOP @ 10,139 KB
			Existing Lateral # 1 MD: 9872-10,782 KB (910')
			Existing Curve MD: 9687-9872 KB (185') Existing Curve TVD: 9687-9798 KB (111')
Total Hours Today		24	IS THIS REPORT CONTINUED ON NEXT PAGE ?????

AFE: DH \$256,100 TST/CSG: COMP: TOT: \$309,150 LAST PIT DRILL DATE:
MUD COST ACTUAL: WELL COST ACTUAL: LAST BOPE TEST DATE: 8/11/99

RPT#:	<u>21</u>	Date:	<u>9/1/99</u>	Location Days:	<u>21</u>	Spud Days:	<u>21</u>
AFE#:	<u>306498</u>	GL:	<u>3,533'</u>	KB:	<u>16(11)</u>	MOC WI:	<u>83.7</u>
AFE Total Depth:	<u>11,265 MD</u>	County:	<u>EDDY</u>	State:	<u>NEW MEX</u>	MOC NI:	<u>66.3</u>

WELL NAME: COURTMAN # 1		RIG: KEY # 117		FTG: 160'		DEPTH:(MD) 11,068'		(TVD) 9,687'	
CSG SIZE: 5 1/2"		CSG MD: 11,115'		CSG TVD: 11,115'		SHOE TEST:		MAX. SI:	
LINER TOP:									
PRESENT OP: Drilling Sidetrack #2 Lateral									
EXECUTIVE SUMMARY		Drilled Sidetrack Lateral # 2 rotating and sliding to maintain proper angle from 10,908-11,068 KB.							
MW	VIS	PV	YP	GELS	WL	SLD	OIL	WTR	MUD LOSSES
8.4	34	2	7	0/1	12.5	TR		100.0	
pH	Pm	Pf	Mf	CL	CA	LIME	BKGD	CONN	TRIP
11.4		0.3	0.8	950	60		3 - 10	15	
BIT#	SIZE	COMPANY	TYPE	SERIAL#	OFF	FTG	HRS	FT/HR	RPM
3	4 3/4"	Reed	EHP53AK	W12289		160'	23	7.0	192
					ACC	534'	70.5	7.6	192
BIT#	I O D L B G O T R		PRESS.	GPM	JETS	TFA	ANNULAR VELOCITY		BIT HP
3			2300	120	open		205		
BHA #: 5 4 3/4" Bit, 1.83 Lateral motor, Float sub, Gr sub, Flex collar, SS sub,									
Length: 96.01 Flo-sub, SS sub, crossover, Slick Monel, crossover									
DRILL PIPE DESCRIPTION: 2 7/8" American Open Hole (Weatherford) MAX PULL:									
DLY ROT HRS	CUM ROT HRS	JARS	TORQUE	WEIGHT (1000)			BHA:		
23.00	269.25			Pu: 110000			Rot: 98000		So: Eff:
MEA. DEPTH	ANGLE	DIRECTION		TVD		VERT. SEC.		N/S	E/W
10,955.00	93.700	22.70		9696.15		1224.61		1224.61	176.59
10,987.00	94.600	23.00		9693.83		1253.97		1253.97	189.12
11,018.00	94.700	22.70		9691.32		1282.44		1282.44	201.11
Start	End	Hours	Operations In Sequence						
6:00	8:30	2.5	Drilled sidetrack Lateral # 2 rotating 10,908-10,930 KB with full returns. Circ and survey.						
8:30	12:30	4	Drilled sidetrack Lateral # 2 sliding 10,930-10,945 KB with full returns. TF HS 40K WOB						
12:30	15:00	2.5	Drilled sidetrack Lateral # 2 rotating 10,945-10,962 KB with full returns. Circ and survey.						
15:00	18:00	3	Drilled sidetrack Lateral # 2 sliding 10,962-10,971 KB with full returns. TF HS 40K WOB						
18:00	6:00	12	Drilled sidetrack Lareral # 2 rotating 10,791-11,068 KB with full returns. Circ and survey.						
			(Daily total circulation and survey - 1 hr.)						
			Existing Sidetrack Lateral # 2 MD: 10,139-11,068 (929') KOP @ 10,139 KB						
			Existing Lateral # 1 MD: 9872-10,782 (910')						
			Existing Curve MD: 9687-9872 KB (185') Existing Curve TVD: 9687-9798 KB (111')						
Total Hours Today		24	IS THIS REPORT CONTINUED ON NEXT PAGE ?????						
AFE: DH \$256,100		TST/CSG:	COMP:		TOT: \$309,150		LAST PIT DRILL DATE:		
MUD COST ACTUAL:		WELL COST ACTUAL:		LAST BOPE TEST DATE: 8/11/99					

Marathon Oil Company
Midland, Texas

RPT#: 20
AFE#: 306498

Date: 8/31/99
GL: 3,533'

Location Days: 20
KB: 16(11)

Spud Days: 20
MOC WI: 83.7

AFE Total Depth: 11,265 MD County: EDDY

State: NEW MEX

MOC NI: 66.3

WELL NAME: COURTMAN # 1 RIG: KEY # 117 FTG: 158' DEPTH:(MD) 10,908' (TVD) 9,698'

CSG SIZE: 5 1/2" CSG MD: 11,115' CSG TVD: 11,115' SHOE TEST: MAX SI:

LINER TOP:

PRESENT OP: Drilling Sidetrack #2 Lateral

EXECUTIVE SUMMARY
Drilled Sidetrack Lateral # 2 rotating and sliding to maintain proper angle from 10,750-10,908 KB. This AM

MW	VIS	PV	YP	GELS	WL	SLD	OIL	WTR	MUD LOSSES		
8.4	32	2	8	0/0	11.0	TR		100.0			
pH	Pm	PI	MI	CL	CA	LIME	BKGD	CONN	TRIP	MAX	
10.9		0.3	0.8	1000	60		3 - 10	15			
BIT#	SIZE	COMPANY	TYPE	SERIAL#	OFF	FTG	HRS	FT/HR	RPM	WOB	CPF
3	4 3/4"	Reed	EHP53AK	W12289		158'	23	6.9	192	6-45K	
					ACC	374'	47.5	7.9	192	6-45K	
BIT#	IODLBGOTR		PRESS.	GPM	JETS	TFA	ANNULAR VELOCITY			BIT HP	
3			2300	120	open		205				

BHA #: 5
Length: 96.01
4 3/4" Bit, 1.83 Lateral motor, Float sub, Gr sub, Flex collar, SS sub,
Flo-sub, SS sub, crossover, Slick Monel, crossover

DRILL PIPE DESCRIPTION: 2 7/8" American Open Hole (Weatherford) MAX PULL:

DLY ROT HRS	CUM ROT HRS	JARS	TORQUE	WEIGHT (1000)			BHA:	
23.00	246.25			Pu: 110000	Rot: 98000	So:		Eff:
MEA. DEPTH	ANGLE	DIRECTION		TVD	VERT. SEC.	N/S	E/W	DOG LEG
10,796.00	88.900	21.00		9701.35	1013.46	1077.25	117.23	2.38
10,828.00	90.600	21.10		9701.49	1045.29	1107.12	128.73	5.32
10,860.00	92.800	21.30		9700.54	1077.12	1136.94	140.29	6.90

Start	End	Hours	Operations in Sequence
6:00	12:00	6	Drilled sidetrack Lateral # 2 rotating 10,750-10,803 KB with full returns. Circ and survey.
12:00	15:00	3	Drilled sidetrack Lateral # 2 sliding 10,803-10,815 KB with full returns. TF 10R 40K WOB
15:00	18:00	3	Drilled sidetrack Lateral # 2 rotating 10,815-10,835 KB with full returns. Circ and survey.
18:00	20:00	2	Drilled sidetrack Lateral # 2 sliding 10,835-10,847 KB with full returns. TF HS
20:00	21:30	1.5	Drilled sidetrack Lateral # 2 rotating 10,847-10,855 KB with full returns. Circ and survey.
21:30	0:00	2.5	Drilled sidetrack Lateral # 2 sliding 10,855-10,865 KB with full returns. TF HS
0:00	6:00	6	Drilled sidetrack Lateral # 2 rotating 10,865-10,908 KB with full returns. Circ and survey.
			(Daily total circulation and survey - 1 hr.)
			Existing Sidetrack Lateral # 2 MD: 10,139-10,908 (769') KOP @ 10,139 KB
			Existing Lateral # 1 MD: 9872-10,782 (910')
			Existing Curve MD: 9687-9872 KB (185') Existing Curve TVD: 9687-9798 KB (111')
Total Hours Today		24	IS THIS REPORT CONTINUED ON NEXT PAGE ?????

AFE: DH \$256,100 TST/CSG: COMP: TOT: \$309,150 LAST PIT DRILL DATE:
MUD COST ACTUAL: WELL COST ACTUAL: LAST BOPE TEST DATE: 8/11/99

Marathon Oil Company
Midland, Texas

RPT#: 19
AFE#: 306498
AFE Total Depth: 11,265 MD

Date: 8/30/99
GL: 3,533'
County: EDDY

Location Days: 19
KB: 16(11)
State: NEW MEX

Spud Days: 19
MOC WI: 83.7
MOC NI: 66.3

WELL NAME: COURTMAN # 1 RIG: KEY # 117 FTG: 195' DEPTH:(MD) 10,750' (TVD) 9,701'
CSG SIZE: 5 1/2" CSG MD: 11,115' CSG TVD: 11,115' SHOE TEST: MAX. SI:

LINER TOP:

PRESENT OP: Drilling Sidetrack #2 Lateral

EXECUTIVE SUMMARY
Drilled Sidetrack Lateral #2 rotating and sliding to maintain proper angle from 10,555-10,750 KB. This AM

MW	VIS	PV	YP	GELS	WL	SLD	OIL	WTR	MUD LOSSES		
8.4	30	2	5	0/0	12.0	TR		100.0			
pH	Pm	Pf	Mf	CL	CA	LIME	BKGD	CONN	TRIP	MAX	
11.0		0.3	0.7	1000	60		3 - 10	15			
BIT#	SIZE	COMPANY	TYPE	SERIAL#	OFF	FTG	HRS	FT/HR	RPM	WOB	CPF
3	4 3/4"	Reed	EHP53AK	W12289		195'	22.25	8.8	192	6-45K	
					ACC	216'	24.5	8.8	192	6-45K	
BIT#	IODLBGOTR		PRESS.	GPM	JETS	TFA	ANNULAR VELOCITY			BIT HP	
3			2300	120	open		205				

BHA #: 5 4 3/4" Bit, 1.83 Lateral motor, Float sub, Gr sub, Flex collar, SS sub,
Length: 96.01 Flo-sub, SS sub, crossover, Slick Monel, crossover

DRILL PIPE DESCRIPTION: 2 7/8" American Open Hole (Weatherford) MAX PULL:

DLY ROT HRS	CUM ROT HRS	JARS	TORQUE	WEIGHT (1000)			BHA:	
22.25	223.25			Pu: 110000	Rot: 98000	So:	Eff:	
MEA. DEPTH	ANGLE	DIRECTION		TVD	VERT. SEC.	N/S	E/W	DOG LEG
10,638.00	88.000	17.80		9699.20	856.60	929.00	62.80	6.32
10,669.00	89.100	19.30		9700.00	887.30	958.40	72.60	6.00
10,701.00	89.100	21.00		9700.50	919.00	988.40	83.70	5.31

Start	End	Hours	Operations in Sequence
6:00	9:45	3.75	Drilled sidetrack Lateral # 2 sliding 10,555-10,578 KB with full returns TF-180. Circ and survey.
9:45	15:30	5.75	Drilled sidetrack Lateral # 2 rotating 10,578-10,645 KB with full returns. Circ and survey.
15:30	17:15	1.75	Drilled sidetrack Lateral # 2 sliding 10,645-10,657 KB with full returns TF-HS.
17:15	19:45	2.5	Drilled sidetrack Lateral # 2 rotating 10,657-10,677 KB with full returns. Circ and survey.
19:45	21:00	1.25	Drilled sidetrack Lateral # 2 sliding 10,677-10,685 KB with full returns TF-60R.
21:00	22:00	1	Drilled sidetrack Lateral # 2 rotating 10,685-10,694 KB with full returns.
22:00	22:30	0.5	Service rig. Change out automatic driller.
22:30	0:15	1.75	Drilled sidetrack Lateral # 2 rotating 10,694-10,708 KB with full returns. Circ and survey. C/O rubber.
0:15	2:15	2	Drilled sidetrack Lateral # 2 sliding 10,708-10,719 KB with full returns TF-10R.
2:15	5:00	2.75	Drilled sidetrack Lateral # 2 rotating 10,719-10,740 KB with full returns. Circ and survey.
5:00	6:00	1	Drilled sidetrack Lateral # 2 rotating 10,740-10,750 KB with full returns.
			(Daily total circulation and survey - 1 1/4 hr.)
			Existing Sidetrack Lateral # 2 MD: 10,139-10,750 (611') KOP @ 10,139 KB
			Existing Lateral # 1 MD: 9872-10,782 (910')
			Existing Curve MD: 9687-9872 KB (185') Existing Curve TVD: 9687-9798 KB (111')
Total Hours Today		24	IS THIS REPORT CONTINUED ON NEXT PAGE ?????

AFE: DH \$256,100 TST/CSG: COMP: TOT: \$309,150 LAST PIT DRILL DATE:
MUD COST ACTUAL: WELL COST ACTUAL: LAST BOPE TEST DATE: 8/11/99

Marathon Oil Company
Midland, Texas

RPT#: 18

Date: 8/29/99

Location Days: 18

Spud Days: 18

AFE#: 306498

GL: 3,533'

KB: 16(11)

MOC WI: 83.7

AFE Total Depth: 11,265 MD

County: EDDY

State: NEW MEX

MOC NI: 66.3

WELL NAME: COURTMAN # 1		RIG: KEY # 117		FTG: 93'		DEPTH:(MD) 10,555'		(TVD) 9,697'	
CSG SIZE: 5 1/2"		CSG MD: 11,115'		CSG TVD: 11,115'		SHOE TEST:		MAX. SI:	
LINER TOP:									
PRESENT OP: Drilling Sidetrack #2 Lateral									
EXECUTIVE SUMMARY		Drilled Sidetrack Lateral #2 rotating and sliding to maintain proper angle from 10,462-10,534 KB. Motor stalling, torquing up. TOH to replace bit and BHA #4. TIH with new bit and BHA #5. Orient into sidetrack, ream last 20' to bottom. Drilled Sidetrack Lateral #2 rotating from 10,534-10,555 KB.							
MW	VIS	PV	YP	GELS	WL	SLD	OIL	WTR	MUD LOSSES
8.4	30	1	5	0/0	11.3	TR		100.0	
pH	Pm	Pf	Mf	CL	CA	LIME	BKGD	CONN	TRIP
10.0							3 - 10	15	26
BIT#	SIZE	COMPANY	TYPE	SERIAL#	OFF	FTG	HRS	FT/HR	RPM
RR1	4 3/4"	Reed	EHP53AK	W12056	10,534'	646'	109.75	5.9	192
3	4 3/4"	Reed	EHP53AK	W12289		21'	2.25	9.3	192
BIT#	IODLBGOTR		PRESS.	GPM	JETS	TFA	ANNULAR VELOCITY		BIT HP
RR1	3/6/BT/G3/F1/WT/PR		2600	120	open		205		
3			2300	120	open		205		
BHA #:		5 4 3/4" Bit, 1.83 Lateral motor, Float sub, Gr sub, Flex collar, SS sub,							
Length:		96.01 Flo-sub, SS sub ,crossover, Slick Monel, crossover							
DRILL PIPE DESCRIPTION: 2 7/8" American Open Hole (Weatherford) MAX PULL:									
DLY ROT HRS	CUM ROT HRS	JARS	TORQUE	WEIGHT (1000)				BHA:	
13.00	201.00			Pu: 110000		Rot: 98000		So: Eff:	
MEA. DEPTH	ANGLE	DIRECTION		TVD		VERT. SEC.		N/S	E/W
10,449.00	101.000	14.90		9709.00		670.40		750.60	2.70
10,480.00	98.200	16.40		9703.90		700.40		780.10	11.00
10,512.00	94.400	19.20		9700.30		731.80		810.30	20.70
Start	End	Hours	Operations in Sequence						
6:00	6:45	0.75	Drilled sidetrack Lateral # 2 rotating 10,462-10,466 KB with full returns.						
6:45	15:15	8.5	Drilled sidetrack Lateral # 2 sliding 10,466-10,519 KB with full returns TF-140R. Circ and survey.						
			(Had 35K WOB while sliding. Not stalling motor.)						
15:15	17:00	1.75	Drilled sidetrack Lateral # 2 rotating 10,519-10,534 KB with full returns. Stalling motor, torquing up.						
17:00	21:00	4	TOH to replace bit. L/D BHA #4.						
21:00	22:00	1	P/U new motor, replaced MWD and bit. (BHA #5)						
22:00	1:45	3.75	TIH w/ lateral drilling assembly to lateral/sidetrack junction.						
1:45	3:00	1.25	P/U swivel. Orient into sidetrack. TIH. Washed and reamed 10,514-10,534 KB.						
3:00	4:45	1.75	Drilled sidetrack Lateral # 2 rotating 10,534-10,551 KB with full returns. (6K WOB, high torque.)						
4:45	5:30	0.75	Service rig, change out stripping rubber. Circ and survey.						
5:30	6:00	0.5	Drilled sidetrack Lateral # 2 rotating 10,551-10,555 KB with full returns.						
			(Daily total circulation and survey - 1/2 hr.)						
			Existing Sidetrack Lateral # 2 MD: 10,139-10,555 (416') KOP @ 10,139 KB						
			Existing Lateral # 1 MD: 9872-10,782 (910')						
			Existing Curve MD: 9687-9872 KB (185') Existing Curve TVD: 9687-9798 KB (111')						
Total Hours Today		24	IS THIS REPORT CONTINUED ON NEXT PAGE ?????						
AFE: DH \$256,100		TST/CSG:		COMP:		TOT: \$309,150		LAST PIT DRILL DATE:	
MUD COST ACTUAL:				WELL COST ACTUAL:				LAST BOPE TEST DATE: 8/11/99	

Marathon Oil Company
Midland, Texas

RPT#: 17

Date: 8/28/99

Location Days: 17

Spud Days: 17

AFE#: 306498

GL: 3,533'

KB: 16(11)

MOC WI: 83.7

AFE Total Depth: 11,265 MD

County: EDDY

State: NEW MEX

MOC NI: 66.3

WELL NAME: COURTMAN # 1		RIG: KEY # 117		FTG: 265'		DEPTH:(MD) 10,462'		(TVD) 9,707'	
CSG SIZE: 5 1/2"		CSG MD: 11,115'		CSG TVD: 11,115'		SHOE TEST:		MAX. SI:	
LINER TOP:									
PRESENT OP: Drilling Sidetrack #2 Lateral									
EXECUTIVE SUMMARY		Drilled Sidetrack Lateral #2 rotating and sliding to maintain proper angle from 10,197-10,462 KB This AM							
MW	VIS	PV	YP	GELS	WL	SLD	OIL	WTR	MUD LOSSES
8.4	31	2	7	0/1	10.2	TR		100.0	
pH	Pm	PI	Mf	CL	CA	LIME	BKGD	CONN	TRIP
10.0							3 - 10	15	
BIT#	SIZE	COMPANY	TYPE	SERIAL#	OFF	FTG	HRS	FT/HR	RPM
RR1	4 3/4"	Reed	EHP53AK	W12056		329'	44.5	7.4	192
					ACC	574'	99	5.8	
BIT#	I O D L B G O T R		PRESS.	GPM	JETS	TFA	ANNULAR VELOCITY		BIT HP
RR1			2600	120	open		205		
BHA #: 4		4 3/4" Bit, 1.83 Lateral motor, Float sub, Gr sub, Flex collar, SS sub,							
Length: 95.82		Flo-sub, SS sub, crossover, Slick Monel, crossover							
DRILL PIPE DESCRIPTION:		2 7/8" American Open Hole (Weatherford)						MAX PULL:	
DLY ROT HRS	CUM ROT HRS	JARS	TORQUE	WEIGHT (1000)			BHA:		
22.00	188.00			Pu: 110000		Rot: 98000		So: Eff:	
MEA DEPTH	ANGLE	DIRECTION		TVD		VERT. SEC.		N/S	E/W
10,354.00	97.100	13.30		9726.28		579.15		660.30	-20.97
10,385.00	101.100	14.60		9721.38		608.97		690.00	-13.59
10,417.00	101.200	15.40		9715.19		639.68		720.33	-5.46
Start	End	Hours	Operations in Sequence						
6:00	7:00	1	Drilled sidetrack Lateral # 2 rotating 10,197-10,203 KB with full returns. Circ and survey.						
7:00	9:30	2.5	Drilled sidetrack Lateral # 2 sliding 10,203-10,235 KB with full returns TF-30R. Circ and survey.						
9:30	12:30	3	Drilled sidetrack Lateral #2 rotating 10,235-10,298 KB with full returns. Circ and survey.						
12:30	15:15	2.75	Drilled sidetrack Lateral #2 rotating 10,298-10,329 KB with full returns. Circ and survey.						
15:15	17:45	2.5	Drilled sidetrack Lateral #2 rotating 10,329-10,361 KB with full returns. Circ and survey.						
17:45	20:30	2.75	Drilled sidetrack Lateral # 2 sliding 10,361-10,382 KB with full returns TF-30R.						
20:30	22:00	1.5	Drilled sidetrack Lateral # 2 sliding 10,382-10,393 KB with full returns TF-70R. Circ and survey.						
22:00	1:15	3.25	Drilled sidetrack Lateral #2 rotating 10,393-10,424 KB with full returns. Circ and survey.						
1:15	5:15	4	Drilled sidetrack Lateral #2 rotating 10,424-10,456 KB with full returns. Circ and survey.						
5:15	6:00	0.75	Drilled sidetrack Lateral #2 rotating 10,456-10,462 KB with full returns.						
			(Daily total circulation and survey - 2 hr.)						
			Existing Sidetrack Lateral # 2 MD: 10,139-10,462 (323') KOP @ 10,139 KB						
			Existing Lateral # 1 MD: 9872-10,782 (910')						
			Existing Curve MD: 9687-9872 KB (185')						
			Existing Curve TVD: 9687-9798 KB (111')						
Total Hours Today		24	IS THIS REPORT CONTINUED ON NEXT PAGE ?????						
AFE: DH \$256,100		TST/CSG:	COMP:		TOT: \$309,150		LAST PIT DRILL DATE:		
MUD COST ACTUAL:		WELL COST ACTUAL:		LAST BOPE TEST DATE: 8/11/99					

Marathon Oil Company
Midland, Texas

RPT#: 16
AFE#: 306498
AFE Total Depth: 11,265 MD

Date: 8/27/99
GL: 3,533'
County: EDDY

Location Days: 16
KB: 16(11)
State: NEW MEX

Spud Days: 16
MOC WI: 83.7
MOC NI: 66.3

WELL NAME: COURTMAN # 1		RIG: KEY # 117		FTG: 64'		DEPTH:(MD) 10,197'		(TVD) 9,747'	
CSG SIZE: 5 1/2"		CSG MD: 11,115'		CSG TVD: 11,115'		SHOE TEST:		MAX. SI:	
LINER TOP:									
PRESENT OP: Drilling Sidetrack # 2 Lateral									
EXECUTIVE SUMMARY		Time Drilled sidetrack lateral # 1 10,263-10,269 KB Bit / motor followed old lateral. L/D drill pipe							
		Picked new sidetrack depth at 10,139. Timed drilled sidetrack # 2 10,139-10,169 KB w/ full returns							
		Drilled Sidetrack # 2 Lateral 10,169-10,197 KB w/ full returns This AM							
MW	VIS	PV	YP	GELS	WL	SLD	OIL	WTR	MUD LOSSES
8.4	31	2	6	0/1	10.2	TR		100.0	
pH	Pm	Pf	Mf	CL	CA	LIME	BKGD	CONN	TRIP
10.8							7		
BIT#	SIZE	COMPANY	TYPE	SERIAL#	OFF	FTG	HRS	FT/HR	RPM
RR1	4 3/4"	Reed	EHP53AK	W12056		64'	22.5	2.8	192
					ACC	309'	77	4.0	
BIT#	IODLBGOTR		PRESS.	GPM	JETS	TFA	ANNULAR VELOCITY		BIT HP
RR1			2600	120	open		205		
BHA #: 4		4 3/4" Bit, 1.83 Lateral motor, Float sub, Gr sub, Flex collar, SS sub,							
Length: 95.82		Flo-sub, SS sub, crossover, Slick Monel, crossover							
DRILL PIPE DESCRIPTION:		2 7/8" American Open Hole (Weatherford)							MAX PULL:
DLY ROT HRS	CUM ROT HRS	JARS	TORQUE	WEIGHT (1000)			BHA:		
22.50	166.00			Pu: 110000			Rot: 98000		
				So:			Eff:		
MEA. DEPTH	ANGLE	DIRECTION		TVD		VERT. SEC.		N/S	E/W
10,782.00	90.000	31.00		9716.70		1004.40		1053.50	143.90
10,133.00	102.000	16.30		9758.45		365.72		448.74	-75.76
Start	End	Hours	Operations In Sequence						
6:00	8:00	2	Time drilled sidetrack # 1 10,263-10,268 KB w/ full returns						
8:00	8:30	0.5	Drilled lateral sliding w/ 5-6K on bit 10,268-10,269 KB when motor / bit went into old lateral						
			Discussed options w/ Midland. Decided to sidetrack # 2 @ 10,139 KB.						
8:30	9:30	1	L/D drill pipe for new sidetrack						
9:30	1:30	16	Time drilled sidetrack # 2 from 10,139-10,169 KB w/ full returns TF-140L						
1:30	3:30	2	Drilled side track # 2 lateral sliding w/ 5-6K on bit 10,169-10,181 KB						
3:30	6:00	2.5	Drilled lateral # 2 rotating 10,181-10,197 KB w/ full returns This AM						
			Existing Sidetrack Lateral # 2 9872-10,197 (325') KOP @ 10,139 KB						
			Existing Lateral 9872-10,782 (910')						
			Existing Curve MD: 9687-9872 KB (185')						
			Existing Curve TVD: 9687-9798 KB (111')						
Total Hours Today		24	IS THIS REPORT CONTINUED ON NEXT PAGE ?????						
AFE: DH \$256,100		TST/CSG:	COMP:		TOT: \$309,150		LAST PIT DRILL DATE:		
MUD COST ACTUAL:				WELL COST ACTUAL:			LAST BOPE TEST DATE: 8/11/99		
DAILY: \$0		CUM: \$5,600	DAILY: \$14,400		CUM: \$246,300		ACCIDENTS REPORTED TODAY: 0		
DRILLING SUPERVISOR: D. J. Gasser			Daily Man Hours: 175		Cum Man Hours: 3214		(wjt)		

Marathon Oil Company
Midland, Texas

RPT#: 15

Date: 8/26/99

Location Days: 15

Spud Days: 15

AFE#: 306498

GL: 3,533'

KB: 16(11)

MOC WI: 83.7

AFE Total Depth: 11,265 MD

County: EDDY

State: NEW MEX

MOC NI: 66.3

WELL NAME: COURTMAN # 1 RIG: KEY # 117 FTG: 13' DEPTH(MD) 10,263' (TVD) 9,731'

CSG SIZE: 5 1/2" CSG MD: 11,115' CSG TVD: 11,115' SHOE TEST: MAX SI:

LINER TOP:

PRESENT OP: Side Tracking lateral

EXECUTIVE SUMMARY
Drilled lateral rotating and sliding to maintain proper angle from 10,735- 10,782 KB w/ full returns.
Received orders to side track lateral at 10,250. L/D 17 joints. Time drilled from 10,250-10,263 KB w/ full returns. This AM

MW	VIS	PV	YP	GELS	WL	SLD	OIL	WTR	MUD LOSSES		
8.4	31	1	6	0/0	12.0	TR		100.0			
pH	Pm	Pf	Mf	CL	CA	LIME	BKGD	CONN	TRIP	MAX	
11.0							7				
BIT#	SIZE	COMPANY	TYPE	SERIAL#	OFF	FTG	HRS	FT/HR	RPM	WOB	CPF
RR1	4 3/4"	Reed	EHP53AK	W12056	10,735'	60'	26.5	2.2	192	12K	
					ACC	245'	54.5	4.4			
BIT#	IODLBGOTR		PRESS.	GPM	JETS	TFA	ANNULAR VELOCITY			BIT HP	
RR1			2200	120	open		205				
2	4/6/CT/G1/E/1WT/HR										

BHA #: 4 4 3/4" Bit, 1.83 Lateral motor, Float sub, Gr sub, Flex collar, SS sub,
Length: 95.82 Flo-sub, SS sub, crossover, Slick Monel, crossover

DRILL PIPE DESCRIPTION: 2 7/8" American Open Hole (Weatherford) MAX PULL:

DLY ROT HRS	CUM ROT HRS	JARS	TORQUE	WEIGHT (1000)			BHA:	
22.75	143.50			Pu: 110000	Rot:	So:	Eff:	
MEA. DEPTH	ANGLE	DIRECTION		TVD	VERT. SEC.	N/S	E/W	DOG LEG
10,733.00	90.100	28.30		9717.00	955.43	1010.93	119.63	2.90
10,228.00	101.500	16.40		9736.95	456.65	537.55	-49.82	7.35

Start	End	Hours	Operations In Sequence
6:00	14:00	8	Drilled lateral sliding 10,747-10,765 KB w/ full returns Circ and survey.
14:00	14:15	0.25	Worked pipe on connection pie dragging to 140K. Worked stuck pipe.
			Got rotation back and worked pipe up / down until free.
14:15	15:00	0.75	Drilled slack off rotating from 10,665-10,771 KB w full returns.
15:00	18:00	3	Drilled lateral sliding 10,771- 10,782 KB w/ full returns Circ and survey.
			Received orders to side track existing lateral.
18:00	19:00	1	L/D 17 joints drill pipe. Tight pulling bit / motor. Worked, rotated and pumped out of hole.
19:00	6:00	11	Time drilled from 10,250-10,263 KB to kick off lateral w/ full returns. This AM
			(Tool Face while kicking off 140 L)
			Existing Lateral # 1 9872-10,782 (910')
			Existing Lateral # 2 9872-10,263 (391') KOP- 10,250 KB
			Existing Curve MD: 9687-9872 KB (185')
			Existing Curve TVD: 9687-9798 KB (111')
Total Hours Today		24	IS THIS REPORT CONTINUED ON NEXT PAGE ?????

AFE: DH \$256,100 TST/CSG: COMP: TOT: \$309,150 LAST PIT DRILL DATE:
MUD COST ACTUAL: WELL COST ACTUAL: LAST BOPE TEST DATE: 8/11/99

Marathon Oil Company
Midland, Texas

RPT#: 14
AFE#: 306498
AFE Total Depth: 11,265 MD

Date: 8/25/99
GL: 3,533'
County: EDDY

Location Days: 14
KB: 16(11)
State: NEW MEX

Spud Days: 14
MOC WI: 83.7
MOC NI: 66.3

WELL NAME: COURTMAN # 1		RIG: KEY # 117		FTG: 67'		DEPTH(MD) 10,747'		(TVD) 9,717'			
CSG SIZE: 5 1/2"		CSG MD: 11,115'		CSG TVD: 11,115'		SHOE TEST:		MAX SI:			
LINER TOP:											
PRESENT OP: Drilling Lateral											
EXECUTIVE SUMMARY		Drilled lateral rotating and sliding to maintain proper angle from 10,680-10,735 KB w/ full returns. TOH and replaced motor and bit. TIH. Drilled lateral rotating and sliding from 10,735-10,747 KB w/ full returns This AM									
MW	VIS	PV	YP	GELS	WL	SLD	OIL	WTR	MUD LOSSES		
8.4	30	1	4	O/O	11.1	TR		100.0			
pH	Pm	Pf	Mf	CL	CA	LIME	BKGD	CONN	TRIP MAX		
11.1							3	6	14		
BIT#	SIZE	COMPANY	TYPE	SERIAL#	OFF	FTG	HRS	FT/HR	RPM	WOB	CPF
2	4 3/4"	Reed	EHP53AK	Y96665	10,735'	863'	87	9.9	192	12K	
RR1	4 3/4"	Reed	EHP53AK	W12056		12'	3.5	3.4	192	12K	
BIT#	IODLBGOTR		PRESS.	GPM	JETS	TFA	ANNULAR VELOCITY			BIT HP	
2			2200	120	open		205				
RR1			2200	120	open		205				
BHA #: 4		4 3/4" Bit, 1.83 Lateral motor, Float sub, Gr sub, Flex collar, SS sub,									
Length: 95.82		Flo-sub, SS sub, crossover, Slick Monel, crossover									
DRILL PIPE DESCRIPTION: 2 7/8" American Open Hole (Weatherford) MAX PULL:											
DLY ROT HRS	CUM ROT HRS	JARS	TORQUE	WEIGHT (1000)				BHA:			
12.75	120.75			Pu: 110000		Rot: 98000		So: Eff:			
MEA. DEPTH	ANGLE	DIRECTION		TVD		VERT. SEC.		N/S	E/W	DOG LEG	
10,638.00	89.400	23.70		9715.61		860.49		925.63	77.93	2.25	
10,669.00	88.400	24.60		9716.21		891.44		953.91	90.61	4.34	
10,701.00	89.700	27.50		9716.74		923.43		982.65	104.66	9.93	
Start	End	Hours	Operations In Sequence								
6:00	13:00	7	Drilled lateral sliding 10,680-10,716 KB w/ full returns Circ and survey.								
13:00	15:00	2	Drilled lateral rotating 10,716-10,735 w/ full returns. Circ and survey.								
15:00	19:00	4	TOH to replace bit. Max drag 140K								
19:00	21:00	2	P/U new motor, replaced MWD and bit.								
21:00	0:00	3	TIH w/ lateral drilling assembly								
0:00	2:30	2.5	P/U swivel. Washed / reamed 10,695-10,735. Hole packing off. Pumped sweep and circ.								
2:30	3:15	0.75	Drilled lateral rotating 10,735-10,740 KB w/ full returns								
3:15	6:00	2.75	Drilled lateral sliding 10,740-10,747 KB w/ full returns This AM								
			(Daily Total circulation and survey - 1 hr.)								
			Existing Lateral 9872-10,680 (875')								
			Existing Curve MD: 9687-9872 KB (185')								
			Existing Curve TVD: 9687-9798 KB (111')								
Total Hours Today		24	IS THIS REPORT CONTINUED ON NEXT PAGE ?????								
AFE: DH \$256,100		TST/CSG:	COMP:		TOT: \$309,150		LAST PIT DRILL DATE:				
MUD COST ACTUAL:		WELL COST ACTUAL:		LAST BOPE TEST DATE: 8/11/99							

Marathon Oil Company
Midland, Texas

RPT#: 12
AFE#: 3C J

Date: 8/24/99
GL: 3,533'
County: EDDY

Location D: 13
16(11)
State: NEW MEX

Spud Days: 13
MOC WI: 83.7
MOC NI: 66.3

AFE Total Depth: 11,265 MD

WELL NAME: COURTMAN # 1		RIG: KEY # 117		FTG: 188'		DEPTH:(MD) 10,680'		(TVD) 9,716'	
CSG SIZE: 5 1/2"		CSG MD: 11,115'		CSG TVD: 11,115'		SHOE TEST:		MAX. SI:	
LINER TOP:									
PRESENT OP: Drilling Lateral									
EXECUTIVE SUMMARY		Drilled Lateral rotating and sliding to maintain proper angle from 10,492-10,680 KB This AM							
MW	VIS	PV	YP	GELS	WL	SLD	OIL	WTR	MUD LOSSES
8.4	31	2	4	O/O	10.1	TR		100.0	
pH	Pm	PI	MI	CL	CA	LIME	BKGD	CONN	TRIP
11.1							7	20	
BIT#	SIZE	COMPANY	TYPE	SERIAL#	OFF	FTG	HRS	FT/HR	RPM
2	4 3/4"	Reed	EHP53AK	Y96665		188'	21	8.9	192
					ACC	808'	78	10.4	192
BIT#	IOD LBG OTR		PRESS.	GPM	JETS	TFA	ANNULAR VELOCITY		BIT HP
2	2/3/I		2200	120	open		205		
BHA #: 3		4 3/4" Bit, 1.83 Lateral motor, Float sub, Gr sub, Flex collar, SS sub,							
Length: 94.00		Flo-sub, SS sub, crossover, Slick Monel, crossover							
DRILL PIPE DESCRIPTION: 2 7/8" American Open Hole (Weatherford) MAX PULL:									
DLY ROT HRS	CUM ROT HRS	JARS	TORQUE	WEIGHT (1000)				BHA:	
21.00	108.00			Pu: 104000		Rot: 92000		So: Eff:	
MEA. DEPTH	ANGLE	DIRECTION		TVD		VERT. SEC.		N/S	E/W
10,575.00	89.400	18.80		9714.62		797.69		867.54	53.63
10,606.00	88.800	24.10		9715.11		828.54		896.38	64.97
10,638.00	89.400	23.70		9715.61		860.49		925.63	77.93
Start	End	Hours	Operations in Sequence						
6:00	11:00	5	Drilled lateral rotating 10,492- 10,550 KB w/ full returns Circ and survey.						
11:00	13:00	2	Pulled motor/bit into casing for pump repairs. Repaired pump-swabs.						
			TIH w/ lateral drilling assembly. R/U swivel						
13:00	23:00	10	Drilled lateral sliding 10,550- 10,612 KB w/ full returns Circ and survey.						
23:00	4:30	5.5	Drilled lateral rotating 10,612-10,675 w/ full returns						
4:30	6:00	1.5	Drilled lateral sliding 10,675-10,680 KB w/ full returns This AM						
			(Daily Total survey and circulation - 1 hr)						
			Existing Lateral 9872-10,680 (808')						
			Existing Curve MD: 9687-9872 KB (185')						
			Existing Curve TVD: 9687-9798 KB (111')						
Total Hours Today		24	IS THIS REPORT CONTINUED ON NEXT PAGE ?????						
AFE: DH \$256,100		TST/CSG:	COMP:		TOT: \$309,150		LAST PIT DRILL DATE:		
MUD COST ACTUAL:				WELL COST ACTUAL:				LAST BOPE TEST DATE: 8/11/99	
DAILY: \$0		CUM: \$5,000		DAILY: \$11,100		CUM: \$205,900		ACCIDENTS REPORTED TODAY: 0	
DRILLING SUPERVISOR: D. J. Gasser			Daily Man Hours: 168			Cum Man Hours: 2689			(wjt)

Marathon Oil Company
Midland, Texas

RPT#: 12

Date: 8/23/99

Location Days: 12

Spud Days: 12

AFE#: 306498

GL: 3,533'

KB: 16(11)

MOC WI: 83.7

AFE Total Depth: 11,265 MD

County: EDDY

State: NEW MEX

MOC NI: 66.3

WELL NAME: COURTMAN # 1		RIG: KEY # 117		FTG: 215'		DEPTH(MD) 10,492'		(TVD) 9,717'	
CSG SIZE: 5 1/2"		CSG MD: 11,115'		CSG TVD: 11,115'		SHOE TEST:		MAX SI:	
LINER TOP:									
PRESENT OP: Drilling Lateral									
EXECUTIVE SUMMARY: Drilled Lateral rotating and sliding to maintain proper angle from 10,277-10492 KB This AM									
MW	VIS	PV	YP	GELS	WL	SLD	OIL	WTR	MUD LOSSES
8.4	30	2	3	O/O	12.2	TR		100.0	
pH	Pm	Pf	Mf	CL	CA	LIME	BKGD	CONN	TRIP
11.0							8	15	
BIT#	SIZE	COMPANY	TYPE	SERIAL#	OFF	FTG	HRS	FT/HR	RPM
2	4 3/4"	Reed	EHP53AK	Y96665		215'	22	9.8	192
					ACC	620'	57	10.9	192
BIT#	IODLBGOTR		PRESS.	GPM	JETS	TFA	ANNULAR VELOCITY		BIT HP
2	2/3/I		2200	120	open		205		
BHA #: 3 4 3/4" Bit, 1.83 Lateral motor, Float sub, Gr sub, Flex collar, SS sub,									
Length: 94.00 Flo-sub, SS sub, crossover, Slick Monel, crossover									
DRILL PIPE DESCRIPTION: 2 7/8" American Open Hole (Weatherford) MAX PULL:									
DLY ROT HRS	CUM ROT HRS	JARS	TORQUE	WEIGHT (1000)				BHA:	
22.00	87.00			Pu: 104000		Rot: 92000		So: Eff:	
MEA. DEPTH	ANGLE	DIRECTION		TVD		VERT. SEC.		N/S	E/W
10,365.00	91.800	17.20		9720.88		610.62		686.03	-2.14
10,417.00	91.700	17.30		9719.90		642.13		716.58	7.35
10,449.00	91.600	17.00		9718.98		673.65		747.14	16.78
Start	End	Hours	Operations in Sequence						
6:00	12:30	6.5	Drilled lateral rotating and sliding 10,277-10,337 KB w/ full returns Circ and survey.						
			Geologist changed TD back to 9720 TVD. Will rotate to build angle..						
12:30	17:30	5	Drilled lateral rotating 10,337-10,391 KB w/ full returns Circ and survey						
			Geologist changed TD to 9710 TVD.						
17:30	6:00	12.5	Drilled lateral rotating 10,391-10,492 KB w/ full returns Circ and survey.						
			(Daily Total survey and circulation - 2 hrs)						
			Existing Lateral 9872-10,492 (620')						
			Existing Curve MD: 9687-9872 KB (185')						
			Existing Curve TVD: 9687-9798 KB (111')						
Total Hours Today		24	IS THIS REPORT CONTINUED ON NEXT PAGE ?????						
AFE: DH \$256,100		TST/CSG:	COMP:		TOT: \$309,150		LAST PIT DRILL DATE:		
MUD COST ACTUAL:		WELL COST ACTUAL:		LAST BOPE TEST DATE: 8/11/99					

Marathon Oil Company
Midland, Texas

RPT#: 11
AFE#: 306498

Date: 8/22/99
GL: 3,533'

Location Days: 11
KB: 16(11)

Spud Days: 11
MOC WI: 83.7

AFE Total Depth: 11,265 MD County: EDDY

State: NEW MEX

MOC NI: 66.3

WELL NAME: COURTMAN # 1		RIG: KEY # 117		FTG: 255'		DEPTH:(MD) 10,277'		(TVD) 9,728'	
CSG SIZE: 5 1/2"		CSG MD: 11,115'		CSG TVD: 11,115'		SHOE TEST:		MAX. SI:	
LINER TOP:									
PRESENT OP: Drilling Lateral									
EXECUTIVE SUMMARY: Drilled Lateral rotating and sliding to maintain proper angle from 10,022-10,277 KB This AM									
MW	VIS	PV	YP	GELS	WL	SLD	OIL	WTR	MUD LOSSES
8.4	31	2	5	2/2	10.2	TR		100.0	
pH	Pm	Pf	MF	CL	CA	LIME	BKGD	CONN	TRIP MAX
11.2							8	25	
BIT#	SIZE	COMPANY	TYPE	SERIAL#	OFF	FTG	HRS	FT/HR	RPM WOB CPF
2	4 3/4"	Reed	EHP53AK	Y96665		255'	20	12.8	192 12K
					ACC	405'	35	11.6	192 12K
BIT#	IODLBGOTR		PRESS.	GPM	JETS	TFA	ANNULAR VELOCITY BIT HP		
2	2/3/I		1800	120	open		205		
BHA #: 3 4 3/4" Bit, 1.83 Lateral motor, Float sub, Gr sub, Flex collar, SS sub, Length: 94.00 Flo-sub, SS sub, crossover, Slick Monel, crossover									
DRILL PIPE DESCRIPTION: 2 7/8" American Open Hole (Weatherford) MAX PULL:									
DLY ROT HRS	CUM ROT HRS	JARS	TORQUE	WEIGHT (1000)				BHA:	
20.00	65.00			Pu: 104000		Rot: 92000		So: Eff:	
MEA. DEPTH	ANGLE	DIRECTION		TVD		VERT. SEC.		N/S	E/W DOG LEG
10,164.00	103.700	16.60		9751.56		395.43		477.72	-67.20 5.56
10,196.00	103.800	15.90		9743.95		425.98		507.56	-58.51 2.15
10,228.00	101.500	16.40		9736.95		456.65		537.55	-49.82 7.35
Start	End	Hours	Operations in Sequence						
6:00	9:30	3.5	Drilled lateral sliding 10,022-10,044 KB w/ full returns Geologist changed TD to 9720 TVD						
9:30	13:30	4	Drilled lateral rotating 10,044-10,107 KB w/ full returns Circ and survey						
13:30	15:30	2	Drilled lateral sliding 10,107-10,122 KB w/ full returns						
15:30	17:00	1.5	Drilled lateral rotating 10,122-10,139 KB w/ full returns Circ and survey						
17:00	18:30	1.5	Drilled lateral sliding 10,139-10,149 KB w/ full returns						
18:30	21:30	3	Drilled lateral rotating 10,149-10,175 KB w/ full returns. Circ and survey						
21:30	23:30	2	Repair power swivel. (Replaced packing)						
23:30	0:30	1	Drilled lateral rotating 10,175-10,201 w/ full returns. Drilling rate picked up.						
0:30	1:00	0.5	Drilled rotating 10,201-10,207 w/ full returns. Geologist changed TD to 9734 TVD.						
1:00	2:00	1	Drilled sliding 10,207-10,217 KB to compensate change.						
2:00	6:00	4	Drilled lateral rotating and sliding to maintain proper angle 10,217-10,277 KB This AM						
(Daily Total survey and circulation time - 2 hrs.)									
Existing Lateral 9872-10,277 (405')									
Existing Curve MD: 9687-9872 KB (185')									
Existing Curve TVD: 9687-9798 KB (111')									
Total Hours Today		24	IS THIS REPORT CONTINUED ON NEXT PAGE ?????						
AFE: DH \$256,100		TST/CSG:	COMP:		TOT: \$309,150		LAST PIT DRILL DATE:		
MUD COST ACTUAL:					WELL COST ACTUAL:		LAST BOPE TEST DATE: 8/11/99		

JOB NAME: COURTMAN #1		NO. KEY # 117		FTR: 150'		DEPTH: 10,022		(TWS) 9,778'	
CASO CODE: 5 1/2"		CASO NO: 11,115'		CASO TWD: 11,115'		SHAKE TEST:		MAIL R:	
LIMER TOP:									
PRECEDENT OP: Drilling Lateral									
Finish TOH w/ curve motor. T1H w/ lateral drilling easy. Re-survey Curve. Drilled Lateral 9872-9817 KB sliding w/ full returns. Drilled lateral rotating 9817-10,012 KB w/ full returns. Drilled lateral sliding 10,012-10,022 KB This AM									
EXECUTIVE SUMMARY									
SW	VS	W	VP	CEL	WL	EL	GL	WVR	MUD LOSS
8.4	30	2	4	1/1	13.5	TR		100.0	
ph	Pa	PI	BI	CL	CA	LINE	BGCD	CONN	TRP
11.1							5		
RTS	SIZE	COMPANY	TYPE	SERIAL	OFF	FTG	NSH	FTNR	SPW
1	4 3/4"	Reed	EMHPSAK	W12055	9,872	195	28	7.0	113
2	4 3/4"	Reed	EMHPSAK	Y98965		150	15	10.0	182
RTS	100 LBS GTR	PRDSZ	GRN	JTS	TF	ANGULAR VELOCITY			
1	25M	2000	153	open		222			
2		1800	120	open		205			
BHA 3		4 3/4" B1,1,83 Lateral motor, Float sub, Gr sub, Flex collar, SS sub, Length: 94.00 Fib-sub, SS sub, crossover, Slick Monel, crossover							
DRILL PIPE DESCRIPTION: 2 7/8" American Open Hole (Westbarford)									
BAX FULL:									
OLY ROT HRS	CUM ROT HRS	JARS	TORQUE	WEIGHT (HRS)		BAX:			
17.00	45.00			Ph: 104000	Rot: 82000	So:	EIR:		
MEAS DEPTH	ANGLE	DIRECTION	TVD		VERT. SEC.	WB	EW	DOO LEO	
9911	99.000	14.90	9794.90		150.99	237.99	-135.04	15.22	
9943	99.000	15.50	9799.90		181.93	285.49	-128.76	1.85	
9975	99.200	14.70	9795.11		212.90	299.04	-118.51	3.52	
Start	End	Hours	Operations in Sequence						
6:00	6:30	0.5	Finish TOH w/ curve drilling assembly. LJO motor and bit.						
6:30	9:00	2.5	PAJ lateral motor w/ 1.83 degree and new 4 3/4" bit. Replaced MWD and tested ok.						
9:00	12:00	3	T1H w/ lateral drilling assembly.						
12:00	13:00	1	Re-survey curve w/ MWD and proper monel spacing.						
13:00	20:00	7	Tagged at 9872 MD. Drilled lateral sliding 9872-9917 KB w/ full returns.						
20:00	4:00	8	Drilled lateral rotating 9917-10,012 KB w/ full returns. C/o and survey.						
4:00	6:00	2	Drilled lateral sliding 10,012-10,022 KB w/ full returns. This AM						
Existing Lateral 9872-10,022 (150') Existing Curve MD: 9887-9872 KB (185') Existing Curve TVD: 9887-9799 KB (111') Total From Today 24									
IS THIS REPORT CONTINUED ON NEXT PAGE ?????									
APR: ON \$250,100		TSTCRO:		COMP:		TOT: \$309,150		LAST PT DRILL DATE:	
SUB COST ACTUAL:				WELL COST ACTUAL:				LAST HOPE TEST DATE: 8/11/90	
DAILY: \$800		CUSE: \$4,800		DAILY: \$14,400		CUSE: \$170,000		ACCIDENTY REPORTED TODAY: 0	
DRILLING SUPERVISOR: D. J. Gassaw		Daily Man Hours:		776		Cum Man Hours: 716		(W)	

[illegible]

Marathon Oil Company	RPT#: 9	Date: 8/20/99	Location Days: 9	Spud Days: 9
Midland, Texas	AFE#: 306498	GL: 3,533'	KB: 16(11)	MOC WI: 83.7
	AFE Total Depth: 11,265 MD	County: EDDY	State: NEW MEX	MOC NI: 66.3

WELL NAME: COURTMAN # 1		RIG: KEY # 117		FTG: 92'		DEPTH:(MD) 9,872'		(TVD) 9,798'			
CSG SIZE: 5 1/2"		CSG MD: 11,115'		CSG TVD: 11,115'		SHOE TEST:		MAX SI:			
LINER TOP:											
PRESENT OP: TOH w/ curve motor / P/U lateral motor											
EXECUTIVE SUMMARY		Drilled Curve 9780-9806 KB w/ full returns. TOH w/ curve drilling assy. Replaced motor and TIH w/ same bit and curve drilling assy. Drilled and finished curve curve 9806-9872 w/full returns TOH w/ curve drilling assembly lateral motors.									
MW	VIS	PV	YP	GELS	WL	SLD	OIL	WTR	MUD LOSSES		
8.4	32	2	8	1/1	10.2	TR		100.0			
pH	Pm	Pf	MF	CL	CA	LIME	BKGD	CONN	TRIP	MAX	
11.1							5				
BIT#	SIZE	COMPANY	TYPE	SERIAL#	OFF	FTG	HRS	FT/HR	RPM	WOB	CPF
1	4 3/4"	Reed	EHP53AK	W12056	9,872'	92'	12.5	7.4	113	13K	
					ACC	185'	28	6.6			
BIT#	IODLB G O T R		PRESS.	GPM	JETS	TFA	ANNULAR VELOCITY			BIT HP	
1			2000	133	open		222				
BHA #: 2		4 3/4" Bit, motor,float sub, Gr sub, ss sub,non-mag, ss sub, UBHO, flex sub, x-over.									
Length: 77.78											
DRILL PIPE DESCRIPTION: 2 7/8" American Open Hole (Weatherford)										MAX PULL:	
DLY ROT HRS	CUM ROT HRS	JARS	TORQUE	WEIGHT (1000)				BHA:			
12.50	28.00			Pu: 104000		Rot: 90000		So:		Eff:	
MEA. DEPTH	ANGLE	DIRECTION		TVD		VERT. SEC.		N/S	EW	DOG LEG	
9825	67.900	12.00		9790.33		67.84		155.27	-155.79	57.64	
9835	73.500	13.10		9793.64		76.97		164.47	-153.74	56.95	
9845	79.100	13.20		9796.00		86.41		173.93	-151.53	56.01	
Start	End	Hours	Operations In Sequence								
6:00	9:00	3	Drilled Curve 9780-9806 KB w/ full returns. Projected existing build rates (Too Low)								
9:00	10:00	1	Circulated and discussed options. Decided to pull existing motor								
10:00	14:00	4	TOH w/ curve drilling assembly. Tools looked ok. Replaced motor w/ 4 degree build								
14:00	18:00	4	TIH w/ same 4 3/4" bit on curve drilling assembly # 2. Tagged at 9806. P/U Swivel.								
18:00	2:30	8.5	Drilled and finished curve 9806-9872 KB w/ full returns. Projected TVD to bit 9797.63 (94 degrees)								
2:30	3:30	1	Circulated hole clean								
3:30	6:00	2.5	TOH w/ curve drilling assembly This AM for lateral motor.								
			Existing curve MD: 9687-9872 KB (185')								
			Existing curve TVD: 9687-9797 KB (110')								

RPT#: <u>8</u>	Date: <u>8/19/99</u>	Location Days: <u>8</u>	Spud Days: <u>8</u>
AFE#: <u>306498</u>	GL: <u>3,533'</u>	KB: <u>16(11)</u>	MOC WI: <u>83.7</u>
AFE Total Depth: <u>11,265 MD</u>	County: <u>EDDY</u>	State: <u>NEW MEX</u>	MOC NI: <u>66.3</u>

WELL NAME:		COURTMAN # 1		RIG: KEY # 117		FTG:		93'		DEPTH:(MD)		9,780'		(TVD)		9,765'	
CSG SIZE:		5 1/2"		CSG MD:		11,115'		CSG TVD:		11,115'		SHOE TEST:		MAX SI:			
LINER TOP:																	
PRESENT OP: Drilling Curve																	
EXECUTIVE SUMMARY		Finish TIH w/ curve drilling assembly. R/U Scientific Wireline. Orient and time drilled curve 9687-9703 KB Drilled curve 9703-9780 w/ full returns. This AM															
MW	VIS	PV	YP	GELS	WL	SLD	OIL	WTR	MUD LOSSES								
8.4	31	2	5	1/1	12.2			100.0									
pH	Pm	Pf	Mf	CL	CA	LIME	BKGD	CONN	TRIP	MAX							
10.9							36199										
BIT#	SIZE	COMPANY	TYPE	SERIAL#	OFF	FTG	HRS	FT/HR	RPM	WOB	CPF						
1	4 3/4"	Reed	EHP53AK	W12056		93'	15.5	6.0	113	10K							
BIT#	ID L B G O T R		PRESS.	GPM	JETS	TFA	ANNULAR VELOCITY				BIT HP						
1			2000	133	open		222										
BHA #:	1		4 3/4" Bit, motor,float sub, Gr sub, ss sub,non-mag, ss sub, UBHO, flex sub, x-over.														
Length:	78.11																
DRILL PIPE DESCRIPTION: 2 7/8" American Open Hole (Weatherford) MAX PULL:																	
DLY ROT HRS	CUM ROT HRS	JARS	TORQUE	WEIGHT (1000)				BHA:									
15.50	15.50			Pu: 104000				Rot: 94000				So:				Eff:	
MEA. DEPTH	ANGLE	DIRECTION		TVD		VERT. SEC.		N/S	E/W	DOG LEG							
9735	22.500	9.80		9728.25		9.05		93.93	-164.86	50.95							
9745	27.800	9.00		9737.30		13.10		98.12	-164.17	53.11							
9755	32.700	8.80		9745.94		17.88		103.10	-163.39	49.01							
Start	End	Hours	Operations In Sequence														
6:00	8:00	2	Finished TIH w/ Sperry curve drilling assembly.														
8:00	10:30	2.5	R/U Scientific Wireline. P/U swivel and orient motor. Tagged at 9687 KB (KOP)														
10:30	15:30	5	Time drilled with Scientific wireline checking orientation/angle 9687-9703 KB w/ full returns														
15:30	17:30	2	Pull out w/ wireline and made connection at 9703 KB. Ran Scientific wireline for 2nd joint check.														
17:30	23:30	6	Drilled curve 9703-9743 KB w/ full returns (Note:Corrected tally depth - Added 8' to correlate to GR)														
23:30	1:30	2	Pull out w/ wireline and made connection at 9743 KB. R/D Scientific Wireline.														
1:30	6:00	4.5	Drilled curve 9743-9780 KB w/ full returns. This AM														
			Projected TVD at EOC-9800'														
Total Hours Today		24	IS THIS REPORT CONTINUED ON NEXT PAGE ??????														
APE: DH		TST/CSG:		COMP:		TOT:		LAST PIT DRILL DATE:									
								LAST BOPE TEST DATE: 8/11/99									
DAILY:		\$4,000	CUM:		\$4,000	DAILY:		\$29,650	CUM:		\$134,800	ACCIDENTS REPORTED TODAY: 0					

Marathon Oil Company
Midland, Texas

RPT#: 1
AFE#: 306498
AFE Total Depth: 11,265 MD

Date: 8/18/99
GL: 3,533'
County: EDDY

Location Days: 7
KB: 16(11)
State: NEW MEX

Spud Days: 7
MOC WI: 83.7
MOC NI: 66.3

WELL NAME: COURTMAN # 1		RIG: KEY # 117		FTG: 15'		DEPTH(MD) 9,687'		(TVD) 9,680'	
CSG SIZE: 5 1/2"		CSG MD: 11,115'		CSG TVD: 11,115'		SHOE TEST:		MAX. SI:	
LINER TOP:									
PRESENT OP: Orient Motor / Drilling Curve									
EXECUTIVE SUMMARY		MIRU Key Horizontal Rig # 117. N/U 7 1/6" 3M Hydril on top of Dual BOP's.							
		P/U swivel and drilled casing window w/ 4 5/8" mills 9673-9687 KB w/ full returns.							
		TOH w/ mills. TIH w/ Sperry curve drilling assembly. . This AM							
MW	VIS	PV	YP	GELS	WL	SLD	OIL	WTR	MUD LOSSES
8.3	FW								
pH	Pm	Pf	MY	CL	CA	LIME	BKGD	CONN	TRIP
BIT#	SIZE	COMPANY	TYPE	SERIAL#	OFF	FTG	HRS	FT/HR	RPM
1	4 3/4"	Reed	EHP53AK	W12056					
BIT#	I O D L B G O T R		PRESS.	GPM	JETS	TFA	ANNULAR VELOCITY		BIT HP
1									
BHA #: 1		4 3/4" Bit, motor, float sub, Gr sub, ss sub, non-mag, ss sub, UBHO, flex sub, x-over.							
Length: 78.11									
DRILL PIPE DESCRIPTION: MAX PULL:									
DLY ROT HRS	CUM ROT HRS	JARS	TORQUE	WEIGHT (1000)				BHA:	
				Pu:		Rot:		So:	
								Eff:	
MEA. DEPTH	ANGLE	DIRECTION		TVD		VERT. SEC.		N/S	E/W
Start	End	Hours	Operations In Sequence						
6:00	15:00	9	MIRU Key Horizontal Drilling Rig # 117. N/U 7 1/16" 3M Key Hydril on top of Dual BOP'S						
			N/U flow nipple and stripper rubber. Hooked up flowline and P/U 3.5 swivel. Tagged						
			top whipstock at 9673 KB. Circulated to reserve pit. (Repairing steel pits)						
15:00	18:00	3	Drilled casing window 9673-9687 KB w/ full returns. Worked pipe w/ normal drag.						
18:00	20:00	2	Pumped one gallon EZ mud sweep and circulated hole one hour. Pumped another gallon						
			and circulated hole clean.						
20:00	23:30	3.5	TOH w/ mills. L/D mill and string mills. Ordered cross over sub with larger ID for wireline.						
23:30	4:00	4.5	P/U Sperry curve drilling assembly, install Sperry MWD, pump thru motor and test MWD						
4:00	6:00	2	TIH w/ motor assembly. This AM						
Total Hours Today		24	IS THIS REPORT CONTINUED ON NEXT PAGE ?????						
AFE: DH		TST/CSG:	COMP:		TOT:		LAST PIT DRILL DATE:		
MUD COST ACTUAL:		WELL COST ACTUAL:		LAST BOPE TEST DATE: 8/11/99					

Mid-Continent Region @ 0600 Hrs CST

Well Name:	Henry Courtman "4" State #1		Field:	Travis		State:	New Mex		County:	Eddy	
Rpt Date:	8/17/99 Actual Day: 6		AFE Days:	17		AFE #:	306498		Co Man:	D. Gasser (wjt)	
Present Op:	Rig released / MIRU Key Drilling Rig							Rig:	Key Rig 285 / Key Rev Unit		
Purpose:	Drill Horizontal in Strawn Formation										
Last PBDT:	10,815		Current PBDT:	9692 (CIBP)				0	Accidents Reported In Last 24 Hrs		
Orig Perfs:	9476-10,918					New Perfs:					
Tot Load 1:	_____ TR (BO): _____		TR (BW): _____		TLTR (BW): _____		Csg/Lnr #1: 5 1/2" @ 11,115				
Tot Load 2:	_____ TR (BO): _____		TR (BW): _____		TLTR (BW): _____		Csg/Lnr #2: _____				

Operations Summary

Drilled starter mill 9673 - 9674.5 w/ full returns. TOH w/ starter mill. TIH w/ 4 5/8" mill and string mills

Shut Well In R/D key 275 and released at 8:00 pm Will R/U Key Drilling Rig in AM

[illegible]

Daily Cost:	14,650	Cum Cost:	68,700	Drill & Comp:	AFE: 309,150
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Mld-Continent Region @ 0600 Hrs CST

Operations Summary
Finish TIH w/ 4 5/8" mills. Tagged at 9692 KB (Wireline Depth). TOH. TIH w/ 3 Degree Baker Whipstock on 2 7/8"
Drill Pipe. R/U Scientific and orient whipstock. Set Whipstock and checked at 13.3 Degree Azimuth
Shut Well in.

Daily Cost:	20,950	Cum Cost:	54,050	Drill & Comp:	AFE: 309,150
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AFE: 309,150

Mid-Continent Region @ 0600 Hrs CST

Operations Summary	
Drilled cement 9468-9692 (CIBP) w/ full returns. Tested sqz 500# ok. TOH w/ 4 3/4" bit. L/D 2 7/8" prod tubing.	
TIH w/ 4 5/8" mill and string mills on 2 7/8" American Open Hole Drill Pipe.	SDFN

Daily Cost:	4,950	Cum Cost:	33,100	Drill & Comp:	AFE: 309,150
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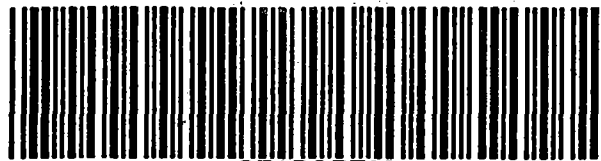
Marathon Oil Company Daily Completion - Workover Report

Mid-Continent Region @ 0600 Hrs CST

Well Name:	Henry Courtman "4" State #1		Field:	Travis	State:	New Mex	County:	Eddy	
Rpt Date:	8/13/99	Actual Day:	2	AFE Days:	17	AFE #:	306498	Co Man:	D. Gasser (wjt)
Present Op:	TOH w/ RTTS / Drill Cement						Rig:		Key Rig 285 / Key Rev Unit
Purpose:	Drill Horizontal in Strawn Formation								
Last PBTD:	10,815	Current PBTD:	9,214 (Cmt)		0	Accidents Reported In Last 24 Hrs			
Orig Perfs:	9476-10,918				New Perfs:				
Tot Load 1:		TR (BO):		TR (BW):		TLTR (BW):		Csg/Lnr #1:	5 1/2" @ 11,115
Tot Load 2:		TR (BO):		TR (BW):		TLTR (BW):		Csg/Lnr #2:	
Operations Summary									
TOH w/ production tubing and packer. R/U wireline and set CIBP at 9692 KB. TIH w/ 5 1/2"									
RTTS. Tested CIBP. Re-set RTTS and squeezed perfs 9476-9662 w/ 300 sks cement.									
Shut well in.									
Start	End	Hours	Operations In Sequence						
7:00	11:00	4	Casing pressure 150 #. Bled to steel pit and pumped fresh water down annulus.						
			Worked packer and TOH w/ 2 7/8" production tubing. Stood up.						
11:00	15:00	4	R/U Baker wireline unit. N/U 7 1/16" 3M pack off. Ran 4 3/4" gauge ring to 9750.						
			Ran 5 1/2" CIBP w/ GR-CCL. Correlated to open hole log and set top of CIBP @ 9692 KB						
			R/D Baker wireline. N/D packoff flange. N/U Stripper head.						
15:00	18:00	3	Established injection rate down annulus into perfs 4 BPM @ 300 #. Discussed cement						
			procedure. TIH w/ 5 1/2" RTTS on 2 7/8" tubing. Tagged CIBP @ 9698 KB (Tbg Tally)						
18:00	23:00	5	Tested CIBP to 1000 # ok. Re-set RTTS at 9214' KB Tested backside to 500 #. Established						
			injection rate into perfs 9476-9663 KB 3 BPM at 600 #. Squeezed perfs with 30 sks						
			Premium Howco Lite, 120 sks Premium cont. .6 % Halad 322 and 150 sks Premium						
			Neat Cement. Total cement slurry 67 bbls. Total tubing displacement 53 bbls						
			Washed up after mixing cement and displaced cement into perfs. Caught pressure						
			after 40 bbls cement into perfs. Pressured increased to 1000 # at 1/4 bpm.						
			Pumped 5 bbls at 1/4 bpm with pressure increasing but not locking down.						
			Attempted to bleed off and reverse out. Perfs flowed back. Pumped into perfs at 1/4 bpm						
			with pressure increasing to 1500 #. Attempted to bleed off with perfs flowing back at						
			350 #. Pumped into perfs at 1/4 bpm for a total of 46 bbls displaced. Opened unloader						
			and unable to reverse out. Released packer, pulled 330' Reversed out 7 bbls cement						
			at 2500 #. Pulled and re-set RTTS at 8574 KB. Loaded backside and pressured up						
			on perfs to 500 #. Shut well in.						
Total Hours Today		16							
Daily Cost:	14,200	Cum Cost:	23,450	Drill & Comp:	AFE: 309,150				

Mid-Continent Region @ 0600 Hrs CST

Well Name:	Henry Courtman "4" State #1		Field:	Travis		State:	New Mex		County:	Eddy	
Rpt Date:	8/12/99		Actual Day:	1		AFE Days:	17		AFE #:	306498	
						Co Man:	D. Gasser		(wjt)		
Present Op:	Set CIBP / Cement perms					Rig:	Key / Key Rev Unit				
Purpose:	Drill Horizontal in Strawn Formation										
Last PBTD:	10,815		Current PBTD:	10,815			0		Accidents Reported In Last 24 Hrs		
Orig Perfs:	9476-10,918					New Perfs:					
Tot Load 1:	TR (BO):		TR (BW):		TLTR (BW):		Csg/Lnr #1: 5 1/2" @ 11,115				
Tot Load 2:	TR (BO):		TR (BW):		TLTR (BW):		Csg/Lnr #2:				
Operations Summary											
MIRU Key workover unit and Key reverse unit. N/U BOP's and tested. Killed well with fresh water. Start out with 2 7/8" prod tubing. Tubing line parted. Repaired/replaced drilling line This AM.											
Start	End	Hours	Operations In Sequence								
7:00	12:00	5	MIRU Key workover unit. R/U Key reverse unit. R/U H2S safety trailer. Held Pre-job tailgate safety meeting. Discussed safety policies and procedure.								
12:00	17:00	5	Dug reserve pit and lined and fenced. Unloaded 375 jts 2 7/8" American Open Hole Drill Pipe on rental racks. Killed tubing with fresh water. Initial pressure 150#.								
			Removed tubing master valve assembly and installed 2 7/8" TIW valve.								
			Set tubing on wraparound. N/U 7 1/16" 3m dual hydraulic BOP. Function tested ok.								
17:00	19:00	2	Tested pipe rams to 1000# ok. Tested blind rams 1000# ok. Bled backside to steel pit. Initial pressure 1000#. Would not bleed off. Killed backside with fresh water. Worked pipe to release packer. Packer would come free but re-set on each joint. Worked packer. Tubing came in. Shut TIW valve. Attempt to circulate well. Packer would not allow fluid to circulate. Sheared packer w/ 45K over tubing weight. Worked pipe and killed backside. Packer would come up but would not go back down. Well staying dead at 3/4 BPM.								
19:00	20:00	1	Packer not dragging at all. Pulled 47 jts with 3/4 bpm going down backside to keep well dead. As pulling joint #48, the tubing/drilling line parted dropping the blocks to the ground and tubing line came crashing to the ground everywhere. Tubing stayed 15' above BOP's and was bent over as blocks fell. Shut well in on BOP's. Notified Key Management and discussed repairs on location. Key ordered new line and inspected rig. No other damage except bent rails on floor. Waited on line.								
20:00	23:00	3	Arrived at 11:00 PM. Installed new tubing line. R/U lights for operation. NO INJURIES REPORTED !!!!! Note: After shearing the packer, crew tied the tubing line on two lines for the trip out of the hole. The part of line which parted would have been on the drum during the shearing operation.								
Total Hours Today		16									
Daily Cost:		9,250	Cum Cost:		9,250	Drill & Comp:		AFE: 309,150			



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