

District I
 PO Box 1980, Hobbs, NM 88241-1980
 District II
 PO Drawer DD, Artesia, NM 88211-0719
 District III
 1000 Rio Brazos Rd., Aztec, 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 API Number 30-0 30-025-34204		³ Reason for Filing Code RC Eff 7/22/99	
⁵ Pool Name Monument; Tubb		⁶ Pool Code 47090	
⁷ Property Code 6366	⁸ Property Name Bertha Barber PC No. 957		⁹ Well Number 17

II. ¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
F	5	20-S	37-E		2230	North	1850	West	Lea

¹¹ 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

¹² Lse Code P	¹³ Producing Method Code Pumping	¹⁴ Gas Connection Date 2/3/98	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date
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III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ POD	²¹ O/G	²² POD ULSTR Location and Description
21778	Sunco 1004 N. Big Spring, Suite #515 Midland, TX 79701	2819477	0	UL K, Sec.5, T-20-S, R-37-E Battery at Well No. 16 location.
20809	Sid Richardson Gasoline PO Box 1226 Jal, NM 88252	2819478	G	UL K, Sec.5, T-20-S, R-37-E Meter at battery location.

IV. Produced Water

²³ POD 2819479	²⁴ POD ULSTR Location and Description
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V. Well Completion Data

²⁵ Spud Date 7/20/99	²⁶ Ready Date 7/22/99	²⁷ TD 7800'	²⁸ PBTB 7095' CIBP	²⁹ Perforations 6443-6453'	³⁰ DHC, DC, MC
³¹ Hole Size See Orig.	³² Casing & Tubing Size	³³ Depth Set 2 3/8"	³⁴ Sacks Cement 6615'		

VI. Well Test Data

³⁵ Date New Oil 7/22/99	³⁶ Gas Delivery Date 7/22/99	³⁷ Test Date 8/15/99	³⁸ Test Length 24	³⁹ Tbg. Pressure 450	⁴⁰ Csg. Pressure 50
⁴¹ Choke Size	⁴² Oil 104	⁴³ Water 0	⁴⁴ Gas 278	⁴⁵ AOF	⁴⁶ Test Method 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: <i>Kelly Cook</i> Printed name: Kelly Cook Title: Records Processor Date: 8/17/99 Phone: 393-7106	OIL CONSERVATION DIVISION Approved by: ORIGINAL SIGNED BY CHRIS WILLIAMS DISTRICT I SUPERVISOR Title: Approval Date: SEP 24 1999		
	Previous Operator Signature _____ Printed Name _____ Title _____ Date _____		

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

A

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.
30-025-34204

5. Indicate Type of Lease
STATE FEE

6. State Oil & Gas Lease No.

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.)

7. Lease Name or Unit Agreement Name
Bertha Barber PC No.957

1. Type of Well:
OIL WELL GAS WELL OTHER

8. Well No.
17

2. Name of Operator
Marathon Oil Company

9. Pool name or Wildcat
Monument: Tubb

3. Address of Operator
P.O. Box 2490 Hobbs, NM 88240

4. Well Location
Unit Letter F : 2230 Feet From The North Line and 1850 Feet From The West Line
Section 5 Township 20-S Range 37-E NMPM Lea County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)
GL 3559' KB 3572'

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
TEMPORARILY ABANDON CHANGE PLANS
PULL OR ALTER CASING
OTHER:

REMEDIAL WORK ALTERING CASING
COMMENCE DRILLING OPNS. PLUG AND ABANDONMENT
CASING TEST AND CEMENT JOB
OTHER: Abandon Abo - RC Monument Tubb

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.

- 7/20 MIRU pulling unit. POOH w/pump & rods. ND wellhead. NU BOP. POOH w/tbg.
- 7/21 RIH set CIBP at 7095'. Dump 35' cmt on top. TIH w/pkr, set at 7025'. Test CIBP to 2000 psi. OK. Re1 pkr. PUH to 6458'. Spot 500 gals 15% acid. POOH w/pkr.
- 7/22 Perf 6443-52' w/4 SPF, 120 deg phas, 36 holes. RIH w/pkr, hydrotesting to 8000 psi. Set pkr at 6363'. Acidize w/1500 gals 15% acid w/70 BS. Swab.
- 7/24 Sand frac 6443-52' w/34,200 gals 25# Crosslinked Delta frac fluid & 81,000# 16/30 sand. Flush w/1536 gals of 25# Linear gel. Flow back well.
- 7/27 RIH, tag sand at 7025'. Swab.
- 7/29 RIH, rel pkr. POOH. RIH w/2 3/8" prod tbg. ND BOP.
- 7/30 RIH w/pump & rods. Load & test, OK. RD pulling unit.
TAC at 6276'
SN at 6562' End of tbg 6615'

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 8/17/99
TYPE OR PRINT NAME Kelly Cook TELEPHONE NO. 393-7106

(This space for State Use)

ORIGINAL SIGNED BY CHRIS WILLIAMS
DISTRICT I SUPERVISOR

SEP 24 1999

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

JC

2A Monument Abo *[Signature]*

Submit to Appropriate District Office
 State Lease - 6 copies
 Fee Lease - 5 copies
 DISTRICT I
 P.O. Box 1980, Hobbs, NM 88240

State of New Mexico
 Energy, Minerals and Natural Resources Department

Form C-105
 Revised 1-1-89

OIL CONSERVATION DIVISION

2040 Pacheco St.
 Santa Fe, NM 87505

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

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

WELL API NO.
30-025-34204

5. Indicate Type Of Lease
 STATE FEE

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name
Bertha Barber PC No.957

8. Well No.
17

9. Pool name or Wildcat
Monument; Tubb

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well:
 OIL WELL GAS WELL DRY OTHER _____

b. Type of Completion:
 NEW WELL WORK OVER DEEPEN PLUG BACK DIFF RESVR OTHER **RC**

2. Name of Operator
Marathon Oil Company

3. Address of Operator
P.O. Box 2490 Hobbs, NM 88240

4. Well Location
 Unit Letter **F** : **2230** Feet From The **North** Line and **1850** Feet From The **West** Line

Section **5** Township **20-S** Range **37-E** NMPM **Lea** County

10. Date Spudded **7/20/99** 11. Date T.D. Reached **7/22/99** 12. Date Compl.(Ready to Prod.) **7/22/99** 13. Elevations(DF & RKB, RT, GR, etc.) **GL 3559' KB 3572'** 14. Elev. Casinghead

15. Total Depth **7800'** 16. Plug Back T.D. **7095' CIBP** 17. If Multiple Compl. How Many Zones? 18. Intervals Drilled By Rotary Tools **X** Cable Tools

19. Producing Interval(s), of this completion - Top, Bottom, Name **Monument; Tubb 6443-6453'** 20. Was Directional Survey Made

21. Type Electric and Other Logs Run 22. Was Well Cored

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
See Orig.					

24. LINER RECORD				25. TUBING RECORD			
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2 3/8"	6615'	

26. Perforation record (interval, size, and number) 6443-6453' 4 SPF 36 holes	27. ACID, SHOT, FRACTURE, CEMENT, SOEZE, ETC.	
	DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
	6443-6453'	1500 gals 15% acid w/70 BS
6443-6453'	34,000 gals Xlinked Delta Frac & 81,000 16/30 sand	

PRODUCTION

28. Date First Production **7/22/99** Production Method (Flowing, gas lift, pumping - Size and type pump) **Pumping** Well Status (Prod. or Shut-in) **Producing**

Date of Test **8/15/99** Hours Tested **24** Choke Size _____ Prod'n For Test Period _____ Oil - Bbl. **104** Gas - MCF **278** Water - Bbl. **0** Gas - Oil Ratio **2673**

Flow Tubing Press. **450** Casing Pressure **50** 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

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 *Kelly Cook*

Printed Name **Kelly Cook** Title **Records Processor** Date **8/17/99**

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 Energy Minerals & Natural Resources Department

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⁴ API Number 30-0 30-025-34204		³ Reason for Filing Code RT Eff 7/22/99 7000 Bbls	
⁵ Pool Name Monument; Tubb		⁶ Pool Code 47090	
⁷ Property Code 6366	⁸ Property Name Bertha Barber PC No. 957		⁹ Well Number 17

II. ¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
F	5	20-S	37-E		2230	North	1850	West	Lea

¹¹ 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

¹² Lse Code P	¹³ Producing Method Code Pumping	¹⁴ Gas Connection Date 2/3/98	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date
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III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ POD	²¹ O/G	²² POD ULSTR Location and Description
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IV. Produced Water

²³ POD 2819479	²⁴ POD ULSTR Location and Description
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V. Well Completion Data

²⁵ Spud Date 7/20/99	²⁶ Ready Date 7/22/99	²⁷ TD 7800'	²⁸ PBSD 7095' CIBP	²⁹ Perforations 6443-6453'	³⁰ DHC, DC, MC
³¹ Hole Sie	³² Casing & Tubing Size	³³ Depth Set	³⁴ Sacks Cement		
See Orig.					

VI. Well Test Data

³⁵ Date New Oil	³⁶ Gas Delivery Date	³⁷ Test Date	³⁸ Test Length	³⁹ Tbg. Pressure	⁴⁰ Csg. Pressure
⁴¹ Choke Size	⁴² Oil	⁴³ Water	⁴⁴ Gas	⁴⁵ AOF	⁴⁶ Test Method

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: 8/2/99
 Phone: 393-7106

OIL CONSERVATION DIVISION
 Approved by: ORIGINAL SIGNED BY CHRIS WILLIAMS
 Title: DISTRICT SUPERVISOR
 Approval Date: AUG 05 1999

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
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to Appropriate
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State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

OIL CONSERVATION DIVISION

2040 Pacheco St.
Santa Fe, NM 87505

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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

WELL API NO.
30-025-34204

5. Indicate Type of Lease
STATE FEE

6. State Oil & Gas Lease No.

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.)

7. Lease Name or Unit Agreement Name
BERTHA BARBER

1. Type of Well:
OIL WELL GAS WELL OTHER

8. Well No.
17

2. Name of Operator
Marathon Oil Company

3. Address of Operator
P.O. Box 552, Midland, TX 79702

9. Pool name or Wildcat
MONUMENT (TUBB)

4. Well Location
Unit Letter **F** : **2230** Feet From The **NORTH** Line and **1850** Feet From The **WEST** Line
Section **5** Township **20-S** Range **37-E** NMPM **LEA** County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)
3559' GL

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
TEMPORARILY ABANDON CHANGE PLANS
PULL OR ALTER CASING
OTHER: **RECOMPLETE**

REMEDIAL WORK ALTERING CASING
COMMENCE DRILLING OPNS. PLUG AND ABANDONMENT
CASING TEST AND CEMENT JOB
OTHER:

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.

PROPOSE TO ABANDON THE ABO FORMATION AND RECOMPLETE IN THE MONUMENT (TUBB).

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

SIGNATURE *R. J. Longmire* TITLE **DRILLING SUPERINTENDENT** DATE **6/24/99**
TYPE OR PRINT NAME **R. J. LONGMIRE** TELEPHONE NO. **915/687-8356**

(This space for State Use)

APPROVED BY ORIGINAL SIGNED BY DISTRICT SUPERVISOR TITLE _____ DATE **JUN 28 1999**
CONDITIONS OF APPROVAL, IF ANY:

J
C

Workover Procedure

Bertha Barber #17
 South Monument Field
 2230' FNL, & 1850' FWL
 Spot F, Section 5, T20S & R37E
 API #30-025-34204-0000
 Lea County, New Mexico

Date: February 10, 1999 **AFE No.:** 303999

AFE Cost: \$ 120,000

AFE Days: 20

WI: 100.0 % **NRI:** 87.50 %

Purpose: TA Well in Abo and Test Tubb & Blinebry

Well Status: Currently pumping ± 1 bopd & 20 mcfpd from Abo

Open Perfs: Upper Abo
 7,179' to 7,239'
 7,262' to 7,275'
 7,289' to 7,302'
 (344 Shots)

Elevation: TD: 7,792' PBTd: 7,699'(WL) KB: 3,572' GL: 3,559'

Surface Casing: 11 3/4" 42# H-40 ST&C, set at 500'. Cemented with 271 sx Class "C" + 2.00% CaCl₂ + 0.25 PPS Flocele mixed at 14.8 ppg (363 ft³) Circulated 45 sx to pit (60 ft³)

Intermediate: 8 5/8" 24# & 32#, K-55. Set @ 3,302'. Cemented w/700 sx Halliburton Lite "C" + 0.3% CFR-3 + 0.2% Econolite mixed at 12.4 ppg as lead (1386 ft³). Followed by 205 sx Class "C" mixed + 0.2% Econolite mixed at 14.8 ppg as tail. (271 ft³). Did not circ TOC is estimated to be 450' based upon displacement pressure.

Production: 5 1/2" set @ 7792' Run as follows: 44 jts 17# L-80 & 122 jts 15.5# K-55. Cemented 1st stage with 510 sx 50/50 Pozmix "H" + 2.0% Gel + 0.6% Halad-9 + 3.0% KCl + 5.0% Microbond mixed at 14.2 ppg (678 ft³). Circulated 93 sx off tool (124 ft³). DV/ECP tool at 5,070'. Cemented 2nd stage w/ 300 sx Interfill "C" + 10% Gel + 8# Salt + 0.25# Flocele mixed at 11.9 ppg (744 ft³) as lead. followed by 100 sx 50/50 Pozmix "C" + 0.6% Halad-9 + 3.0% KCl + 5.0% Microbond mixed at 14.2 ppg (Total 133 ft³) as a tail. Did not circulate. Estimated TOC @ 770'

Casing:	<u>Grade & Wt.</u>	<u>I.D.</u>	<u>Drift I.D.</u>	<u>Burst</u>	<u>Collapse</u>
	K-55 15.5#	4.950"	4.825"	4810 psi	4040 psi
	L-80 17.0#	4.892"	4.767"	7740 psi	6280 psi

Tubing:	<u>Size & Wt.</u>	<u>I.D.</u>	<u>Drift I.D.</u>	<u>Burst</u>	<u>Collapse</u>
	2 3/8" 4.7#	1.995'	1.901"	11,200 psi	11,780 psi

Wellhead: 6" (900) Series

Est Press Info:	Blinebry:	5,711' to 5,878'	Est. BHP = ± 1500 psi
	Tubb:	6,443' to 6,452'	Est. BHP = ± 1500 psi
	Abo:	7,179' to 7,302'	Est. BHP = ± 2000 psi

Safety: Run enough tubing to act as a killstring when necessary, install H2S monitoring alarm and rescue equipment.

PROCEDURE:

1. Notify Hobbs personnel of impending workover.
2. Obtain sample of Tubb lease crude from Bertha Barber #18Y and a sample of Blinebry lease crude from the Bertha Barber #10 and submit to Halliburton Lab in Hobbs for acid/oil compatibility testing.
3. Test safety anchors to 22,500 lbs if necessary.
4. MIRU pulling unit
5. Kill well as necessary with lease water.
6. Disconnect surface equipment. Hang off pumping unit, lay down polish rod. POOH with rod string and IP. Lay down pump.
7. ND wellhead. Install 7 1/16", 3M psi hydraulic BOP w/ 2 3/8" pipe rams on top and blind rams on bottom. Install (2) 2 1/16", 3M psi gate valves on BOP outlets below blind rams. Pressure test BOPE as per Midland Drilling Dept's specifications.
8. Release TAC @ 7134' and POOH with 253 jts of 2 3/8" tubing. Visually inspect tubing for paraffin, scale and wear. Replace tubing as needed.
9. MIRU wireline w/ packoff. RIH with 5 1/2" 17.0# gauge ring to 7,200'. Run a wireline set CIBP w/ a GR/CCL. Correlate to GR/DNL dated 1/18/98. Set the CIBP at ±7,100'. PU bailer and spot 35' of cement on the CIBP then SION.
10. RIH with packer on 2 3/8" tubing to ± 7,050'. Test the CIBP to ± 2,000 psi.
11. PU to 6,452' and pickle the tubing string with 250 gallons of 15% Ferchek .
12. Spot 250 gallons of 15% Ferchek SC across the Tubb interval. POH with tubing & packer.
13. MIRU wireline w/ full lubricator. Test lubricator to 1,000 psi. Perforate the Tubb w/ a 3 3/8" port gun from the top down as follows: 6,443' to 6,452'. All shots w/ 23 gram charges and 4SPF, 90° phasing.
14. PU 10K 5 1/2" treating packer and RIH on 2 3/8" 4.7# N-80 to ± 6,400'. Set packer then reverse any remaining spot acid into tubing and close by-pass. Drop SV and test tubing to 5,000 psi, fish SV.
15. Load backside with 2.00% KCl water and test to 1,000 psi.
16. MIRU Halliburton and acidize the Tubb with 1,000 gallons of 15% Ferchek SC @ 4-6 bpm carrying (70) 7/8" 1.3SG ballsealers for diversion. Once the acid has been flushed w/ 1100 gals 2.0% KCl, surge the balls off of the perms vigorously then wait 30 minutes before flowing/swabbing the load back.
17. Swab test the Tubb as necessary. If the interval is productive then pump test Tubb zone for 2-3 months before proceeding. If Tubb is unproductive then squeeze the interval as per Howco recommendation.
18. RIH w/ 5 1/2" 17# RBP & packer on tubing to ±6,400'. PU and set packer to test RBP to 2,000 psi. PU to 5,880' and spot 250 gals 15% Ferchek SC across the lower Blinebry. POH w/ tubing & pkr.
19. MIRU wireline w/ full lubricator. Test lubricator to 1,000 psi. Run a GR/CCL and correlate with the GR/DNL dated 1/18/98. Perforate the lower Blinebry w/ a 3 3/8" port gun from the top down as follows: 5,873' to 5,878'. All shots w/ 23 gram charges and 4 SPF, 90° phasing.
20. PU 10K 5 1/2" 17.0# treating packer and RIH on 2 3/8" 4.7# N-80 to ± 5,825'. Set packer then reverse any remaining spot acid into tubing and close by-pass. Drop SV and test tubing to 5,000 psi, fish SV. Load the backside with KCl water and test to 1000 psi.
21. MIRU Halliburton and acidize the lower Blinebry with 1000 gallons of 15% Ferchek SC @ 4-6 bpm. Flush w/ 1000 gals 2.00% KCl water and shut-in for 15 minutes before swabbing/flowing the load back.
22. Swab test the lower Blinebry as necessary. If lower Blinebry is unproductive then squeeze the interval as per Howco recommendation and retrieve RBP @ 6400', else continue as follows:

23. Release the packer and POOH w/ the tbg. PU 5 1/2" 17# RBP and 5 1/2" 15.5# packer, RIH on 2 3/8" tubing to ± 5,850'. Set RBP and PU to ± 5,760 and set packer to test RBP to 2,000 psi. (Casing changes weight from 15.5# to 17.0# @ 5,787')
24. Release packer and spot 250 gals of 15% Ferchek SC acid across the upper Blinebry. POOH w/ packer & tubing.
25. MIRU wireline w/ full lubricator. Test lubricator to 1,000 psi. Run a GR/CCL and correlate with the GR/DNL dated 1/18/98. Perforate the lower Blinebry w/ a 3 3/8" port gun from the top down as follows: 5711' to 5719', 5721' to 5730', 5735' to 5743', 5750' to 5760'. All shots w/ 23 gram charges and 4 SPF, 90° phasing.
26. Configure "PPI" tool such that the packer elements are (2 ft) apart. RIH w/ PPI & CCL on 2 3/8" tubing to ± 5,760'. Set PPI, drop SV and test tubing to 5,000 psi. Fish SV and drop FCV.
27. MIRU Halliburton and acidize the upper Blinebry with 1750 gals of 15% Ferchek SC @ ±1 bpm via a PPI tool assembly. Start from the bottom perf at 5760' and pull the tool up the hole in (2 ft) increments. Pump 100 gals of 15% Ferchek SC acid at each of the (17) tool settings.
28. Once the acid job is done fish the FCV and SV from the PPI tool and PU to ± 5,700'. Set the tool and start swab testing the upper Blinebry for entry and cut.
29. POOH w/ 2 3/8" tubing LD PPI tool.
30. RIH w/ 2 3/8" tubing and retrieving tool for RBP's @ 5,850' & 6,400'. POOH with tubing.
31. Space out tubing such that the SN is at ± 6,500' and the 5 1/2" TAC is at ± 5,650'.
32. ND BOPE. Set TAC at ± 2,700' & NU Wellhead.
33. Install rod BOPE and RIH with IP pump and rod string. Space out plunger and hang well on.
34. RDMO PU.
35. Start well pumping on test. Turn over to production.

Approvals:

D.K. Barker
New Mexico Engineering Supervisor

R. L. Kliev
Senior Drilling Engineer

Distr:

S. Landon
R. Skinner
T. Kacir
J. Patterson
G. Muse
K. Cook
M. Wiskofske
R. Edgeman
Midland Files

District I
 PO Box 1980, Hobbs, NM 88241-1980
 District II
 811 S. 1st Street, Artesia, NM 88210-2834
 District III
 1000 Rio Brazos Rd., Aztec, NM 87410
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 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-102
 Revised October 18, 1994
 Instructions on back
 Submit to Appropriate District Office
 State Lease - 4 Copies
 Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-34204		² Pool Code 47090		³ Pool Name MONUMENT (TUBB)	
⁴ Property Code 6366		⁵ Property Name BERTHA BARBER			⁶ Well Number
⁷ OGRID No. 14021		⁸ Operator Name Marathon Oil Company			⁹ Elevation 3559'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
F	5	20-S	37-E		2230	NORTH	1850	WEST	LEA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County

¹² Dedicated Acres 80.32	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
--	-------------------------------	----------------------------------	-------------------------

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	<p>¹⁷ OPERATOR CERTIFICATION</p> <p><i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</i></p> <p><i>W. J. Duncan</i></p> <p>Signature</p> <p>R. J. LONGMIRE</p> <p>Printed Name</p> <p>DRILLING SUPERINTENDENT</p> <p>Title</p> <p>3/31/99</p> <p>Date</p>
	<p>¹⁸ SURVEYOR CERTIFICATION</p> <p><i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i></p> <p>_____</p> <p>Date of Survey</p> <p>Signature and Seal of Professional Surveyer:</p> <p>_____</p> <p>Certificate Number</p>

District I
 PO Box 1980, Hobbs, NM 88241-1980
 District II
 811 S. 1st Street, Artesia, NM 88210-2834
 District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV
 2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
 En. Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
 2040 South Pacheco
 Santa Fe, NM 87505

Form C-101
 Revised October 18, 1994
 Instructions on back
 Submit to Appropriate District Office
 State Lease - 6 Copies
 Fee Lease - 5 Copies

AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator name and Address		² OGRID Number
Marathon Oil Company P.O. Box 552 Midland, TX 79702		14021
		³ API Number
		30-0 25-34204
⁴ Property Code	⁵ Property Name	⁶ Well No.
6366	BERTHA BARBER	17

⁷ Surface Location									
UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
F	5	20S	37E		2230	NORTH	1850	WEST	LEA

⁸ Proposed Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
⁹ Proposed Pool 1					¹⁰ Proposed Pool 2				
MONUMENT (TUBB)									

¹¹ Work Type Code	¹² Well Type Code	¹³ Cable/Rotary	¹⁴ Lease Type Code	¹⁵ Ground Level Elevation
P	O	W/O	P	3559'
¹⁶ Multiple	¹⁷ Proposed Depth	¹⁸ Formation	¹⁹ Contractor	²⁰ Spud Date
NO	6500'	TUBB	KEY	4/5/99

²¹ Proposed Casing and Cement Program					
Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
*14 3/4"	11 3/4"	42	500	271	CIRC'D 45 SX
*11"	8 5/8"	24. 32	3302'	905	450'
*7 7/8"	5 1/2"	17. 15.5	7792'	910	770'

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary

PROPOSE TO ABANDON MONUMENT ABO AND RECOMPLET IN MONUMENT TUBB.

*CASING IN PLACE

Permit Expires 1 Year from Approval
 Date Unless Drilling Underway
 Plugback

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature: *R. J. Longmire*
 Printed name: R. J. LONGMIRE
 Title: DRILLING SUPERINTENDENT

OIL CONSERVATION DIVISION	
Approved by:	ORIGINAL SIGNED BY GARY VILK
Title:	
Approval Date:	Expiration Date:

3

CT

DISTRICT I
P.O. Box 1980, Hobbs, NM 88341-1980

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised February 10, 1994
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

DISTRICT II
P.O. Drawer ED, Artesia, NM 88211-0719

OIL CONSERVATION DIVISION

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

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

DISTRICT IV
P.O. Box 2088, Santa Fe, NM 87504-2088

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number <i>30-025-34204</i>	Pool Code <i>47090</i>	Pool Name Monument (Tubb)
Property Code <i>6366</i>	Property Name BERTHA BARBER	
Well Number 17	Operator Name MARATHON OIL COMPANY	
OCRID No. 14021	Elevation 3559	

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	5	20 S	37 E		2230	NORTH	1850	WEST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
80			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

LOT 4 40.30 AC. LOT 3 40.39 AC. LOT 2 40.47 AC. LOT 1 40.55 AC.

← Lease Boundary

← 80 Acre Proration Unit

1850'

2230'

OPERATOR CERTIFICATION

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

Boyd C. Bohlen
Signature

D.P. Nordt
Printed Name

Drilling Supt.
Title

11/18/97
Date

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

OCTOBER 28, 1997
Date Surveyed

JLP

Signature & Seal of Professional Surveyor

Ronald J. Eidson
W.O. Num. 97-11-1745

Certificate No. RONALD J. EIDSON, 3239
GARY G. EIDSON, 12641
MASON McDONALD, 12185

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

OIL CONSERVATION DIVISION

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

2040 Pacheco St.
Santa Fe, NM 87505

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

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

WELL API NO.
30-025-34204

5. Indicate Type of Lease
STATE FEE

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name

BERTHA BARBER

8. Well No.
17

9. Pool name or Wildcat
MONUMENT (TUBB, ABO, PADDOCK)

10. Elevation (Show whether DF, RKB, RT, GR, etc.)
3559' G.L.

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 552 Midland, TX 79702

4. Well Location
Unit Letter F : 2230 Feet From The NORTH Line and 1850 Feet From The WEST Line
Section 5 Township 20-S Range 37-E NMPM LEA County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)
3559' G.L.

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK PLUG AND ABANDON
TEMPORARILY ABANDON CHANGE PLANS
PULL OR ALTER CASING
OTHER:

SUBSEQUENT REPORT OF:

REMEDIAL WORK ALTERING CASING
COMMENCE DRILLING OPNS. PLUG AND ABANDONMENT
CASING TEST AND CEMENT JOB
OTHER:

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.

SEE ATTACHED FOR DETAIL

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

SIGNATURE *D. P. Wortt* TITLE DRILLING SUPERINTENDENT DATE 3/3/98

TYPE OR PRINT NAME D. P. WORDT TELEPHONE NO. 915/682-1626

(This space for State Use)

ORIGINAL SIGNED BY CHRIS WILLIAMS
DISTRICT I SUPERVISOR

APPROVED BY _____ TITLE _____ DATE 3/18/98

CONDITIONS OF APPROVAL, IF ANY:



P.O. Box 552
Midland, TX 79702-0552
Telephone 915/682-1626

**BERTHA BARBER #17
2230' FNL & 1850' FWL
SECTION 5, T-20-S, R-37-E
LEA COUNTY, NEW MEXICO**

12/27/97 - MIRU PATTERSON 71. SPUD 14 3/4" HOLE @ 1945 HRS. DRILLED TO 500'. RAN 12 JTS, 11 3/4", 42#, H-40, STC CSG. SHOE @ 499', INSERT @ 457'. HOWCO MIXED & PUMPED 271 SX PREPLUS. BUMPED PLUG & CIRC'D 45 SX TO PIT. CUT CSG. INSTALLED 13" 3M X 11 3/4" SOW "A" SECTION. NU 11" 3M DUAL RAM BOPE. TESTED CSG & BOPE TO 650 PSI. TIH W/11" BIT, TOTAL WOC 14.25 HRS. DRILLED PLUG & SHOE, DRILLED FORMATION TO 3300'. RAN 76 JTS 8 5/8", 32# & 24#, K-55, STC CSG TO 3300'. SHOE @ 3298', COLLAR @ 3256'. HOWCO MIXED & PUMPED 700 SX LITE PREPLUS. TAILED IN W/205 SX PREM PLUS. PLUG DOWN @ 1900 HRS 1/2/98, DID NOT CIRC CMT. EST TOC @ 450'. SET SLIPS, CUT CSG, NU "B" SECTION. TEST BOPE TO 1500 PSI, CSG TO 1000 PSI. TOTAL WOC - 12.75 HRS. TIH W 7.875" BIT. DRILLED FLOAT EQUIP & RESUMED DRLG FORMATION. HAD SEVER LOSSES 3650'-6100'.

DRILLED TO 7800' TD PRODUCTION HOLE @ 2230 HRS 1/17/98, LOGGED WELL W/PLATFORM EXPRESS. 7794' - 5000', CNL/GF TO SURF. FMI 7794' - 5100'.

RAN 44 JTS, 5 1/2", 17#, 16 JTS, 15.5#, 107 JTS 15.5# K-55 & L-80 PROD CSG TO 7792'.

CEMENTED W/510 SX 50/50 POZ A W/2% GEL WT - 14.2, YIELD 1.33. PLUG DN @ 11:40 HRS 1/19/98. INFLATED PKR, OPENED DV TOOL, CIRC 93 SX TO SURF.

CMTD 2ND STAGE W/300 SX "C" W/10% GEL, 8PPS NAACL, WT 11.9, YIELD 2.46. TAILED IN W/100 SX 50/50 POZ A W/2% GEL, WT - 14.2, YIELD 1.33. BUMPED PLUG, CLOSED TOOL. ND BOPE, PU STACK, SET SLIPS, INSTALLED 11" 3M X 7 1/16" 3M TBG SPOOL. RELEASED RIG @ 2100 HRS 1/19/98.

District I
 PO Box 1980, Hobbs, NM 88241-1980
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 1000 Rio Brazos Rd., Aztec, NM 87410
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 2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
 Energy, Minerals & Natural Resources Department

Form C-104
 Revised October 18, 1994
 Instructions on back
 Submit to Appropriate District Office
 5 Copies

OIL CONSERVATION DIVISION
 2040 South Pacheco
 Santa Fe, NM 87505

AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Marathon Oil Company P.O. Box 2409 Hobbs, NM 88240		² OGRID Number 014021	
THIS WELL HAS BEEN PLACED IN THE POOL DENOTED BELOW. IF YOU DO NOT CONCUR NOTIFY THIS OFFICE.		³ Reason for Filing Code NW	
⁴ API Number 30-0 30-025-34204	⁵ Pool Name Monument; Abo		⁶ Pool Code 46970
⁷ Property Code 6366	⁸ Property Name Bertha Barber PC #957		⁹ Well Number 17

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
F	5	20-S	37-E		2230	North	1850	West	Lea

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
¹² Lse Code P	¹³ Producing Method Code Pumping		¹⁴ Gas Connection Date 2/3/98		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 O/G	²² POD ULSTR Location and Description
021778	Sun Company, Inc. 1004 N. Big Spring, Suite #515 Midland, TX 79701	2819477	0	UL K, Sec.5, T-20-S, R-37-E Battery at Well No.16 location.
20809	Sid Richardson Gasoline PO Box 1226 Jal, NM 88252	2819478	G	UL K, Sec.5, T-20-S, R-37-E Meter at battery location.

IV. Produced Water

²³ POD	²⁴ POD ULSTR Location and Description
2819479	

V. Well Completion Data

²⁵ Spud Date	²⁶ Ready Date	²⁷ TD	²⁸ PBTD	²⁹ Perforations	³⁰ DHC, DC, MC
12/28/97	1/26/98	7800'	7430' CIBP	7179-7302'	
³¹ Hole Size	³² Casing & Tubing Size		³³ Depth Set	³⁴ Sacks Cement	
17 1/2"	16"		40'	Circ to Surface	
14 3/4"	11 3/4"	42#	500'	271 sxs Circ to Surface	
11"	8 5/8"	32#	3302'	905 sxs Est.CM Top 450'	
7 7/8"	5 1/2"	17#	7792'	920 sxs	

VI. Well Test Data

³⁵ Date New Oil	³⁶ Gas Delivery Date	³⁷ Test Date	³⁸ Test Length	³⁹ Tbg. Pressure	⁴⁰ Csg. Pressure
2/3/98	2/3/98	2/20/98	24	270	0
⁴¹ Choke Size	⁴² Oil	⁴³ Water	⁴⁴ Gas	⁴⁵ AOF	⁴⁶ Test Method
	22	6	36		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: 2/24/98

Phone: 393-7106

OIL CONSERVATION DIVISION

Approved by: ORIGINAL SIGNED BY
GARY WINK

Title: FIELD REP. II

Approval Date: MAR 02 1998

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