

REFERENCE SHEET FOR UNDESIGNATED WELLS

DATE 3/2/98

OIL/GAS Oil

COUNTY Lea

OPERATOR Marathon Oil Co

ADDRESS PO Box 2409 Hobbs NM 88240

LEASE NAME, WELL NO. Bertha Barber #17-F

FOOTAGE LOCATION 2230 FROM THE N LINE AND 1850 FROM THE W LINE

SECTION 5 TOWNSHIP 20s RANGE 32E

COMPLETION DATE 2/3/98

NAME OF PRODUCING FORMATION Abo

TOP OF PERFORATIONS 7179-7302

DEPTH TO CASING SHOE _____

C-123 FILED _____

NAME OF POOL FOR WHICH EXTENSION WAS ASKED _____

ADVERTISED FOR _____ HEARING CASE NO. _____

NAME OF POOL FOR WHICH EXTENSION WAS ADVERTISED _____

PLACED IN _____ BY ORDER NO. R- _____

REMARKS Monument Abo

Submit to Appropriate
District Office
State Lease - 6 copies
Fee Lease - 5 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-105
Revised 1-1-89

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

OIL CONSERVATION DIVISION

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

2040 Pacheco St.
Santa Fe, NM 87505

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.

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 ☐

2. Name of Operator
Marathon Oil Company

7. Lease Name or Unit Agreement Name

Bertha Barber PC No.957

3. Address of Operator

P.O. Box 2409 Hobbs, NM 88240

8. Well No.

17

9. Pool name or Wildcat

Monument: Abo

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 12/28/97 11. Date T.D. Reached 1/18/98 12. Date Compl.(Ready to Prod) 1/26/98 13. Elevations(DF & RKB, RT, GR, etc.) GL 3559' KB 3572' 14. Elev. Casinghead

15. Total Depth 7800' 16. Plug Back T.D. 7430' CIBP 17. If Multiple Compl. How Many Zones? CIBP 18. Intervals Drilled By X Rotary Tools Cable Tools

19. Producing Interval(s), of this completion - Top, Bottom, Name Monument Abo 7179-7302' 20. Was Directional Survey Made Yes-See Attached

21. Type Electric and Other Logs Run Yes-See Attached 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
16"		40'	17 1/2"	Circ. to Surface	
11 3/4"	42#	500'	14 3/4"	271 sxs Circ to Surface	
8 5/8"	32#	3302'	11"	905 sxs Est CM Top 450'	
5 1/2"	17#	7792'	7 7/8"	910 sxs	

24. LINER RECORD				25. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET
					2 3/8"	7413'

26. Perforation record (interval, size, and number)			27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
INTERVAL	SIZE	NUMBER	DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
7179-7239'	2 JSPF	120 holes	7179-7239'	5500 gals acid w/180 BS
7262-7302'	2 JSPF	52 holes	7262-7302'	2500 gals acid w/100 BS

28. PRODUCTION

Date First Production 2/3/98 Production Method (Flowing, gas lift, pumping - Size and type pump) Pumping Well Status (Prod. or Shut-in) Producing

Date of Test 2/20/98 Hours Tested 24 Choke Size 22 Prod'n For Test Period 36 Oil - Bbl. 6 Gas - MCF 1682 Water - Bbl. 1637 Gas - Oil Ratio 1637

Flow Tubing Press. 270 Casing Pressure 0 Calculated 24-Hour Rate 1637 Oil - Bbl. 1637 Gas - MCF 1637 Water - Bbl. 1637 Oil Gravity - API (Corr.) 1637

29. Disposition of Gas (Sold, used for fuel, vented, etc.) Sold Test Witnessed By

30. List Attachments

Logs, Deviation 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 Kelly Cook Printed Name Kelly Cook Title Records Processor Date 2/24/98

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northeastern New Mexico

T. Anhy	
T. Salt	1195'
B. Salt	
T. Yates	2459'
T. 7 Rivers	
T. Queen	3220'
T. Grayburg	3457'
T. San Andres	4012'
T. Glorieta	5151'
T. Paddock	5280'
T. Blinebry	5708'
T. Tubb	6345'
T. Drinkard	6461'
T. Abo	6888'
T. Wolfcamp	
T. Penn	
T. Cisco (Bough C)	

T. Canyon _____
T. Strawn _____
T. Atoka _____
T. Miss _____
T. Devonian _____
T. Silurian _____
T. Montoya _____
T. Simpson _____
T. McKee _____
T. Ellenburger _____
T. Gr. Wash _____
T. Delaware Sand _____
T. Bone Springs _____
T. _____
T. _____
T. _____
T. _____

T. Ojo Alamo _____
T. Kirtland-Fruitland _____
T. Pictured Cliffs _____
T. Cliff House _____
T. Menefee _____
T. Point Lookout _____
T. Mancos _____
T. Gallup _____
Base Greenhorn _____
T. Dakota _____
T. Morrison _____
T. Todilto _____
T. Entrada _____
T. Wingate _____
T. Chinle _____
T. Permian _____
T. Penn "A" _____

T. Penn. "B" _____
T. Penn. "C" _____
T. Penn. "D" _____
T. Leadville _____
T. Madison _____
T. Elbert _____
T. McCracken _____
T. Ignacio Otzte _____
T. Granite _____
T. _____
T. _____
T. _____
T. _____
T. _____
T. _____
T. _____
T. _____

OIL OR GAS SANDS OR ZONES

No. 1, from to

No. 3, from..... to

No. 2, from to

No. 4, from to

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

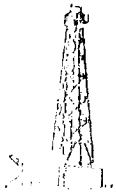
No. 1, from to feet

No. 2, from to feet

No. 3. from to feet

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness in Feet	Lithology



Patterson Drilling Company

410 N. Loraine Street — (915) 682-9401
Midland, Texas 79701

January 29, 1998

Marathon Oil Company
Box 552
Midland, TX 79702

RE: Deviation Report
Bertha Barber #17

Unit F 5-20s-37e 2230/N 1850/W
30-025-34204

Gentlemen:

The following is a deviation survey on the above referenced well located in Lea County, New Mexico.

500' - 3/4 °	3545' - 1 1/4 °
942' - 3/4 °	3919' - 3/4 °
1411' - 1/2 °	4386' - 1 1/4 °
1911' - 3/4 °	5000' - 1 1/2 °
2386' - 3/4 °	5443' - 3/4 °
2887' - 2 1/4 °	6038' - 1 °
3011' - 1 1/4 °	6507' - 1 1/4 °
3300' - 1 3/4 °	6928' - 3/4 °
3389' - 2 °	7491' - 1/2 °

Sincerely,

Treva Forrester

Treva Forrester

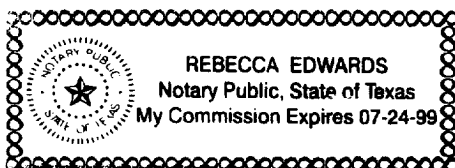
STATE OF TEXAS)
)
COUNTY OF MIDLAND)

The foregoing was acknowledged before me this 29th day of January, 1998 by Treva Forrester.

MY COMMISSION EXPIRES:

Rebecca Edwards

NOTARY PUBLIC





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 <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
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: Abo

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 <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER	
2. Name of Operator Marathon Oil Company	
3. Address of Operator P.O. Box 2409 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:

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: **New Well 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.

1/22/98 RIH w/bit & dc's. Drill out to 7699'. Circ clean. POOH. RIH w/tbg to 7302', pickle w/750 gals 15% acid. 1/27 Perforate 7262-7302' w/2 SPF 90 deg phasing. RIH w/pkr, set at 7189'. Swab well. 1/29 Acidize w/2500 gals 15% acid w/100 BS. Swab well. 1/30 Rel pkr at 7189'. POOH. Run logs. RIH, set CIBP at 7252'. 1/31 Spot 100 gals acid across 7179-7239'. RIH, perforate 7179-7239' w/2 SPF, 120 deg phasing. RIH w/pkr, set at 7109'. Acidize w/5500 gals acid w/180 BS. Swab well. 2/5 Rel pkr at 7109'. POOH. RIH, knock out CIBP at 7250'. Chase to bottom. RIH w/2 3/8" tbg & pkr, set pkr at 7120'. Flow well.

2/20 RIH & rel pkr at 7120'. RIH & set CIBP at 7430'. RIH w/2 3/8" production tbg, pump & rods. Start well pumping.

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 2/24/98
TYPE OR PRINT NAME Kelly Cook TELEPHONE NO. 393-7106

(This space for State Use)

ORIGINAL SIGNED BY
GARY WINK
FIELD REP. II

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

MAR 02 1998