

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103-1D1
Revised 1-1-89

OIL CONSERVATION DIVISION

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

2040 Pacheco St.
Santa Fe, NM 87505

WELL API NO.

30-025-06879

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.)

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

7. Lease Name or Unit Agreement Name

WILLIAM TURNER

WM

8. Well No.

3

9. Pool name or Wildcat

PADDOCK

4. Well Location

Unit Letter SI 1960 Feet From The SOUTH Line and 330 Feet From The EAST Line

Section 29 Township 21-S Range 37-E NMPM LEA County

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

3476' KB

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:

Plugback ☐

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 RE-ENTER SI WELL, PULL PRODUCTION EQUIPMENT, REPAIR CASING LEAK, ABANDON BLINBRY PERFS
(5751' - 5955')
AND TEST THE PADDOCK.

SEE ATTACHED PROCEDURE FOR DETAIL.

Plugback

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

SIGNATURE

W. J. Longmire

TITLE

DRILLING SUPERINTENDENT

DATE

2/10/00

TYPE OR PRINT NAME

R. J. LONGMIRE

TELEPHONE NO.

800-351-1417

(This space for State Use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY

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
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 30-025-06879	² Pool Code 49210 007358	³ Pool Name PADDOCK
⁴ Property Code 6479	⁵ Property Name Wm WILLIAM TURNER	⁶ Well Number 3
⁷ OGRID No. 14021	⁸ Operator Name Marathon Oil Company	⁹ Elevation 3476'

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
8 I	29	21-S	37-E		1960	SOUTH	330	EAST	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 40		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

	¹⁷ OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</i> Signature R. J. LONGMIRE Printed Name DRILLING SUPERINTENDENT Title 2/10/00 Date
	¹⁸ SURVEYOR CERTIFICATION <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> Date of Survey Signature and Seal of Professional Surveyer: Certificate Number

Recompletion Procedure

William Turner No. 3

1960' FSL & 330' FEL
Section 29, T-21-S, R-37-E
Lea County, New Mexico

AFE Numbers: 309099 – Restore Wellbore Utility 309199 – Test Paddock Formation

Date: February 07, 2000

Purpose: Recover production equipment left in well for the last six years, identify and repair potential casing leak, and test the Paddock formation.

Estimated Cost: \$74,000

Estimated Recompletion Duration: 15 days

WI: 100% **NRI:** 87.5%

Elevation: 3476'KB 3465'GL

Drillers TD: 7912'KB **PBTD:** 6082' (18' Cement & CIBP)

Surface Casing: 13-3/8", 48# H-40 casing @ 300'. Cemented w/ 300 sacks, circulated cmt to pit.

Intermediate Casing: 8-5/8", 32# J-55 casing @ 2836'. Cemented with 1500 sacks, circulated cement to pit.

Production Casing: 5-1/2", 17# J-55 casing @ 7911'. Cemented with 950 sacks, did not circulate any cement. TOC not known as CBL (04/83) not pulled above 5000'.

Tubing Spool: Unknown.

Tubing String: 182 jts of 2-3/8" 4.7# J-55 tubing, 1 2-3/8" tubing anchor @ ~5710' (based on rod count as no tubing tally is available), 7 jts of 2-3/8" 4.7# J-55 tubing, a 2-3/8" API seating nipple (1.78" ID) @ 5940' (based on rod count), and a 2-3/8" mud joint.

Rod String: 29 - 7/8" steel rods, 207 – 3/4" steel rods, and an 18' insert pump (no rod tally available)

Open Perforations: Blinbry (2 JSPF-1984): 5751', 58', 65', 86', 88', 5812', 35', 39', 48', 59', 62', 78', 91', 5900', 04', 26', 37', 43', 55' (38 holes)

Abandoned Perfs: Blinbry (4 JSPF-1956, 2 JSPF-1957): 5570-5620' (300 holes)
Tubb (2 JSPF, 1957): 6100-6230' (520 holes)
Wantz-Abo (1 JSPF, 1983): 6794-99', 6803-08', 6823-26', 6844-49', 6872-76', 6955-58', 6965-68', 6972-78', 7050-62', 7075-76', 7104-07', 7145-52' (69 holes)
Simpson-McKee (4 JSPF, 1949): 7858-88', 7892-97', 7901-07' (164 holes)

Tubular Capacities: 5-1/2", 17.0#, J-55 Casing – Drift ID = 4.767" - 80% Burst = 4260
2-3/8", 4.6#, J-55 Production Tubing – Drift ID = 1.901" - 80% Burst = 6160 psi
2-7/8", 6.4#, L-80 Workstring – Drift ID = 2.347" - 80% Burst = 8460 psi

Anticipated Bottom Hole Pressure: Paddock – estimated 500 psi (should not be able to flow)

Safety Considerations:

- Run a sufficient amount of killstring during any extended shut-in period.
- Hold daily safety meetings explaining the proposed procedure.
- H2S concentration – estimated at 6,000 PPM.
- Keep TIW on rig floor for all pipe connections at all times.
- Use fresh water to kill well if necessary.

Operational Considerations:

- Casing was run in 1949, and the primary cement job may have not reached the shoe of the intermediate string.
- Well has been shut-in due to a casing leak for six years.
- Fluid level is currently 500' from surface.
- Therefore, there is a strong possibility that the pump and or TAC could be stuck in the well. The tubing and rods may also be very brittle.
- Further, due to strong concerns about the integrity of the casing, care should be taken to minimize pressure placed on the casing.
- If wellbore utility cannot be restored in a timely and economic manner, the well will be plugged and abandoned.

PROCEDURE:

- 1.) Notify Hobbs personnel of impending workover.
 - 2.) MIRUPU. Disconnect surface equipment. Attempt to unseat pump and PCOH with same. If pump is stuck, call the Drilling Department for further instructions.
 - 3.) ND tree. NU 7-1/16" 3M Hydraulic BOPE with 2-3/8" pipe rams and two valves below blind rams. Due to casing integrity concerns, and minimal BHP, the BOPE will not be pressure tested.
- NOTE 1: BOPE test procedure to be cleared by MCR Drilling Superintendent prior to MIRUPU.
- 4.) Attempt to release TAC at approximately 5710' and POOH and visually inspect and tally the 2-3/8" tubing, TAC, and mud joint. If TAC will not release easily, call the Drilling Department for further instructions as it is important NOT to part the tubing. Note: If the tubing is in poor condition, lay down all joints that need replacing.
 - 5.) PU necessary joints of 2-3/8" production tubing to replace junked tubing. RIH with 4-3/4" bit and scraper to to ~5700'. POOH with same.
 - 6.) RU Wedge Wireline Company and pack-off. RIH with a 5-1/2" CIBP and set at approximately 5385' (Note: Casing collars at 5369', and 5409'). Wireline dump bail 35' of cement on the CIBP.
 - 7.) Fill casing with fresh water and pressure test to 500 psi. If pressure holds for several minutes, proceed to Step 12.
 - 8.) If casing does not hold pressure, run Wedge's PIPE inspection log from 5600' to surface. Evaluate the PIPE log to determine whether or not to run a CBL from 5600' to surface. This decision will be made based on the thickness and number of holes in the casing. RD Wedge Wireline Company.
 - 9.) Await for orders from the Drilling Department on how the casing leak will be squeezed.
 - 10.) RU Halliburton and squeeze casing leak according to service company recommendation. RD Halliburton.
 - 11.) RU power swivel. PU 4-3/4" bit and 4 3-3/4" drill collars and RIH on 2-3/8" J-55 production tubing. Drill out cement and cementing equipment and chase to PBTD at ~ 5640. Pressure test casing to 500 psi. If casing doesn't test, call the Drilling Department for further instructions. POOH with tubing and bit. RD power swivel.
 - 12.) RU Electric Line company and pack-off. Using a Gamma gun to correlate depth with Schlumberger open hole log dated 09/22/49, perforate the Paddock formation with 2 JSPF 120 degree phasing 4" port guns with 23 gram tungsten-lined charges between: 5136-43', 5151-58', 5166-68', 5172-79', 5190-95', 5199-5201', 5213-18', 5220-24' (78 shots). RD Electric Line Company and pack-off.
 - 13.) RU Hydrotesters. Pick up and RIH a 5-1/2" treating packer on 2-3/8" 4.6.# J-55 tubing hydrotesting to 6100 psi below the slips. Set packer at ± 5070' (Note: Casing collars at 5042' & 5084'). RD Hydrotesters
 - 14.) MIRU Halliburton. Test surface lines to 8200 psi. Set pop-off valve on annulus and test at 50 psi. Place 200 psi on the annulus. Acidize with 2500 gals of 15% Carbonate Completion Acid with 125 1.3 SG ball sealers at 3 - 5 BPM. Flush to bottom perf with 2% KCl water. Surge the balls off the perms vigorously after acid job and wait 30 minutes before flowing/swabbing the load back. Anticipated average treating pressure = 4500 psi. Maximum treating pressure limit = 8000 psi. RD Halliburton.
 - 15.) RU swab equipment. Swab back spent acid load. Notify Midland New Mexico Engineering Department with swab results so that the decision can be made whether or not to proceed with any further stimulation. RD swab equipment.
 - 16.) Release packer and POOH. RIH w/ 2-3/8" slotted mud anchor, 1.78" API seating nipple, 2-3/8" tubing, 5-1/2" x 2-3/8" TAC, and 2-3/8" production tubing. Space out tubing using a mandrel tubing hanger to allow proper well control should the well kick. Set TAC at ± 5000', and seating nipple at 5260'.

- 17.) ND BOPE. NU pumping wellhead.
- 18.) PU and RIH with pump and rods. Space out plunger and hang well on. RDMOPU.
- 19.) Turn well over to Hobbs Production Department. Monitor producing rates and fluid levels.

Xc: D.P. Nordt
R.J. Longmire
D.W. Arnst
R.L. Kleiv
T.P. Kacir
S.F. Millican

Wellfile



MARATHON OIL COMPANY
MID-CONTINENT REGION
MIDLAND OPERATIONS NORTHWEST NEW MEXICO

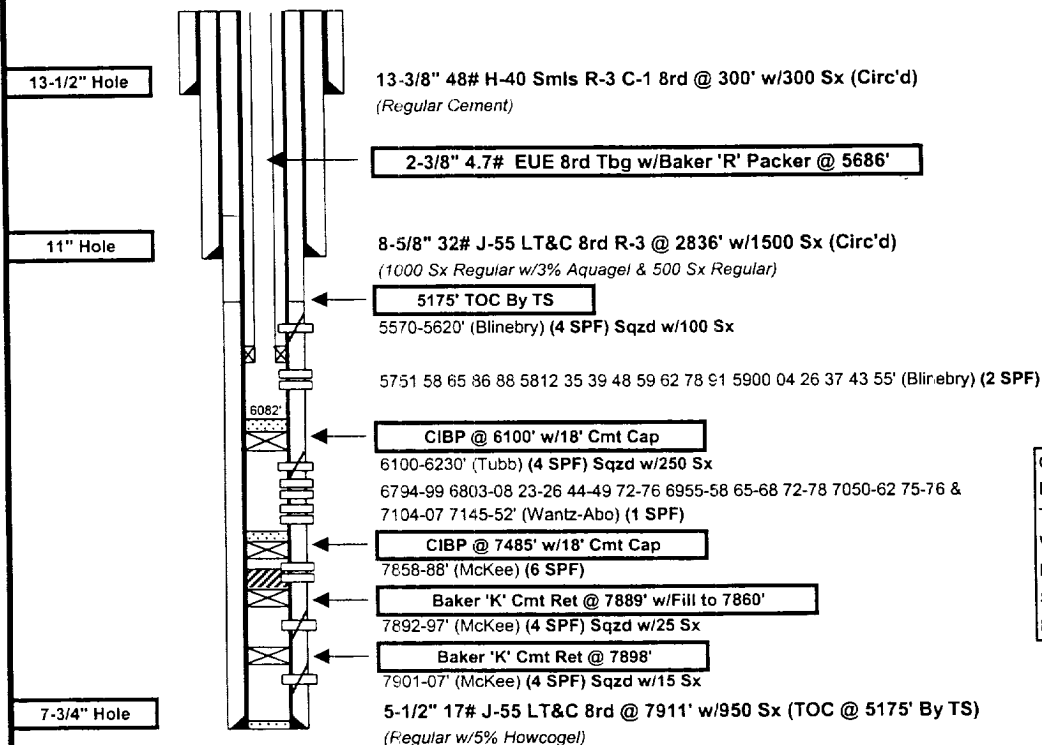
FIELD: DRINKARD
LEASE: WILLIAM TURNER
COUNTY: LEA

GL = 3465'
KB = 3476'

DATE: 07/06/99
BY: TL CHASE
WELL: 3
STATE: NEW MEXICO

SPUD DATE: 07/15/49
REACHED TD: 09/21/49
COMPLETED: 10/01/49

LOCATION: 1960' FSL & 330' FEL. SECTION 29, TOWNSHIP 21S, RANGE 37E, UNIT LETTER "J"



Formation Tops

Glorietta	5120'
Blinebry	5350'
Tubb	6090'
Wantz Abo	6770'
Montoya	7250'
Simpson	7525'
McKee	7825'

PBTD: 6082'
TD: 7912'

Well History

Sep '49 Perf'd McKee w/4 SPF @ 790'-07'. Sqzd same w/15 sx cmt. (Baker 'K' cmt ret @ 7898'). Perf'd McKee w/4 SPF @ 7892-97'. Sqzd same w/25 sx cmt. (Baker 'K' cmt ret @ 7889'). Perf'd McKee w/4 SPF @ 7858-88'. IP = 696 topd flwg thru 2-3/8" tbg.

Apr '52 Installed pumping equipment. Ret to prod ppg.

May-Nov-Dec '54 Replaced pump due to sanding up.

June '55 Fished parted tbg. Frac'd McKee perms 7858-88' w/8800# sand in 8800 gal refined oil. Ret to prod ppg.

June '56 Set Baker 'K' CIBP @ 5705' w/18' cmt cap. Perf'd Blinebry w/4 SPF @ 5570-5620'. Acddz same w/500 gal MCA. Frac'd same w/ 10,000# sand in 10,000 gal refined oil. Turned to prod flwg thru 2-3/8" tbg.

Aug-Sep-Oct '57 Set Baker 'K' magnesium BP @ 5500' w/1-1/2 sx cmt cap. Perf'd Blinebry w/2 SPF @ 5374-75'. Sqzd same w/400 sx total. D/O BP. Re-perf'd Blinebry w/2 SPF @ 5570-5620'. Acddz same w/500 gal MCA. Flwd back. Acddz same w/2000 gal XLST. D/O CIBP @ 5705'. Set Baker CIBP @ 6425' w/1 sx cmt cap. Perf'd Tubb w/4 SPF @ 6100-6230'. Acddz same w/500 gal MCA. Frac'd same w/10,000# sand in 10,000 gal refined oil. Turned to prod flwg from Tubb/Blinebry.

Apr-May-Jun '83 C/O to 6374'. Sqzd Tubb perms 6100-6230' w/250 sx total 'H' cmt. Sqzd Blinebry perms 5570-5620' w/100 sx 'H' cmt. D/O - C/O to 7860'. Set CIBP @ 7485' w/2 sx cmt cap. Perf'd Wantz-Abo w/1 SPF @ 6794-99 6803-08 23-26 44-49 72-76 6955-58 65-68 72-78 7050-62 75-76 7104-07 & 45-52'. Acddz same w/7500 gal 15% HCL DS-30 w/102 BS's. Frac'd same w/17,500# 20-40 mesh sand in 14,750 gal gelled water. Re-frac'd same w/6700# 20-40 sand in 13,100 gal gelled water. Turned to prod ppg.

Nov-Dec '84 Set CIBP @ 6100' w/18' cmt cap. Perf'd Blinebry w/2 SPF @ 5751 58 65 86 88 5812 35 39 48 59 62 78 91 5900 04 26 37 43 55'. Acddz same w/3500 gal 15% NeFe w/60 BS's. Frac'd same w/70,000 gal Pur-gel w/130,000# 20-40 mesh sand w/10 BS's. Turned to prod flwg 88 bopd, 1813 mcfpd & 6 bwpd.