

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-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 Marathon Oil Company P.O. Box 552 Midland Tx. 79702		² OGRID Number 14021
⁴ Property Code 6482	⁵ Property Name L.G. WARLICK	³ API Number 30-0 25-06598
		⁶ Well No. # 7

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
"O"	15	21-S	37-E		405'	SOUTH	2310'	EAST	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 PENROSE SKELLY GRAYBURG	¹⁰ Proposed Pool 2
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¹¹ Work Type Code ADD ZONE	¹² Well Type Code OIL	¹³ Cable/Rotary	¹⁴ Lease Type Code FEE	¹⁵ Ground Level Elevation 3415
¹⁶ Multiple	¹⁷ Proposed Depth 7520'	¹⁸ Formation GRAYBURG	¹⁹ Contractor	²⁰ Spud Date

²¹ Proposed Casing and Cement Program

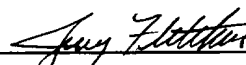
Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
surface	13-3/8	48#	305'	300	surface
intermediate	8-5/8	32#	2802	1200	SURFACE
production	5-1/2	17#	7688	1000	2940

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 TUBB, DRINKARD, AND MCKEE PERFORATIONS. WILL PERFORATE AND STIMULATE GRAYBURG PERFORATIONS AS PER ATTACHED RECOMPLETION PROCEDURE INDICATES.

Permit Expires 1 Year From Approval
Date Unless ~~Drilling~~ Underway

* Casing is cemented in place.

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. Signature: 	OIL CONSERVATION DIVISION ORIGINAL SIGNED BY: JERRY FLETCHER DISTRICT I SUPERVISOR	
Printed name: JERRY FLETCHER	Title:	
Title: DRILLING ENG. TECH.	Approval Date: 25 2000	Expiration Date:

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State of New Mexico
Energy Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, NM 87504-2088

Form C-102
Revised February 10, 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 30-025-06598	² Pool Code 50350	³ Pool Name Penrose Stelly-Grayburg
⁴ Property Code 6482	⁵ Property Name L.G. Warlick "C"	
⁷ OGRID No. 14021	⁸ Operator Name Marathon Oil Company	⁶ Well Number #7
		⁹ Elevation

¹⁰ Surface Location

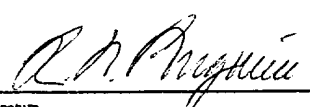
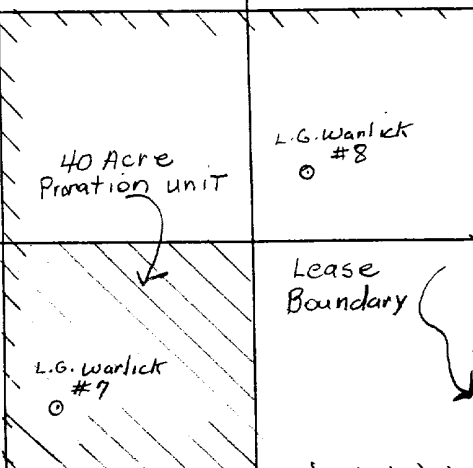
UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
0	15	21-S	37-E		405'	South	2310'	East	Lea

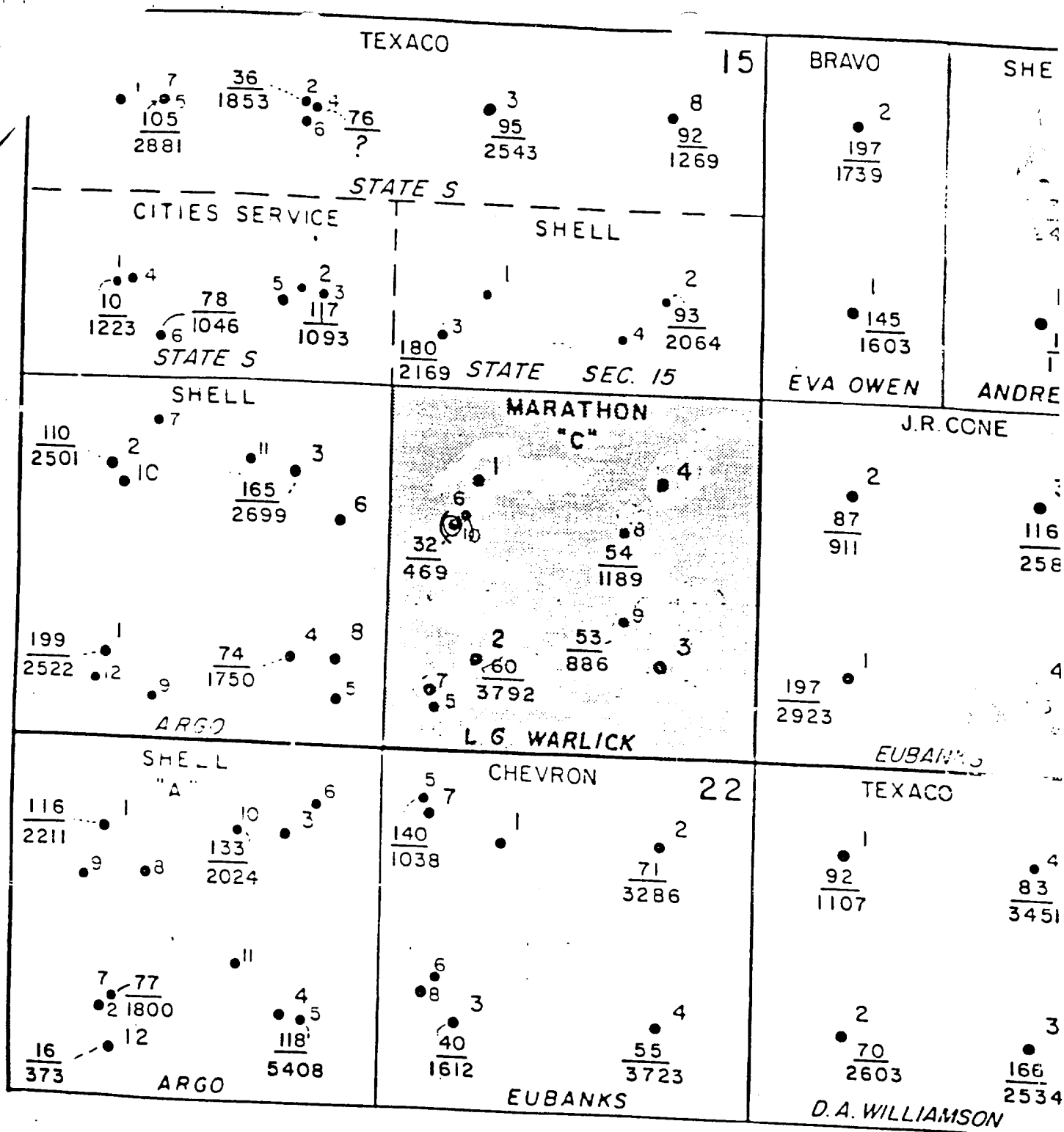
¹¹ Bottom Hole Location If Different From Surface

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.
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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 hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  Signature R.J. Longmire Printed Name Drilling Superintendent Title 4-10-00 Date
				18 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. Date of Survey Signature and Seal of Professional Surveyor: Certificate Number
				



BLINEBRY PRODUCTION
 CUM OIL THRU 12/31/85 (MBO)
 CUM GAS THRU 12/31/85 (MMCF)
 (FROM NMOCC ANNUAL REPORTS)

MARATHON OIL COMPANY
 800-CONTINENT RESERVOIR

L. G. WARLICK "C" LEASE
 SEC. 15, T-21-S, R-37-E
 LEA COUNTY, NEW MEXICO

0 SCALE 1000'

Recompletion Procedure

L.G. Warlick "C" #7
405' FSL, 2310' FEL
Section 15, T21S & R37E, U/L "O"
Penrose-Skelly (Grayburg) Field
Lea County, New Mexico
API # 30-025-06598-0000-

Date: March 23, 2000

Purpose: Complete SI well in Grayburg

AFE #301800	Cost: \$130,000	Est Time: 10 Days
Before Payout:	WI: 100.000 %	NRI: 87.5000 %
After Payout:	WI: 70.5078 %	NRI: 61.6943 %

Perforations: Tubb 6033-40', 6048', 6069-76', 6093', 6144', 6155', 6162', 6171-84', 6195', 6198', 6202', 6205', 6215-25'

Drinkard 6412', 6422', 6430', 6435', 6447', 6453', 6460', 6467', 6472', 6480', 6490', (1 SPF)
6517', 6532', 6565', 6588', 6598' (2 SPF)

McKee 7430-35', 7445-60', 7594-02', 7614-40' (4 SPF)

Elevation: TD: 7,690' PBTD: 6,002' KB: 3,429' GL: 3,415'

Surface Casing: 13 5/8" 44# H-40 ST&C set @ 305 ft. Cement w/ 300 sx Portland. Circulated unknown amt to surf.

Intermediate: 8 1/2" 120 J-85 LBC set @ 2002 ft. Cement w/ 1000 sx Portland + 4% Gel as lead followed by 200 sx Portland next as tail. Circulated unknown amt to surf.

Production: 5 1/2" 17# J-55 set @ 7,688'. Cemented w/ 1000 sx Portland + 4% Gel. Did not circulate. Est TOC 2,940 ft based upon temp log.

Casing	Grade & Wt.	I.D.	Drift I.D.	Burst	Collapse
5 1/2"	J-55 17.0#	4.592"	4.767"	5,320 psi	4,910 psi
Tubing	Grade & Wt.	I.D.	Drift I.D.	Burst	Collapse
2 3/8"	J-55 4.7#	1.995"	1.901"	7,700 psi	5,100 psi
2 1/4"	L-80 6.5#	2.441"	2.347"	10,570 psi	11,160 psi

Wellhead: Unknown

Safety: Run killstring when needed. Install H2S monitoring alarm and rescue equipment.

PROCEDURE:

1. Notify Hobbs personnel of impending workover.
2. Inspect surface location and improve if necessary. Test mast anchors to 22,500 lbs.
3. MIRU PU.
4. ND Wellhead.
5. Install 7 1/16" 3M BOP stack w/ 2 3/8" pipe rams on top and blind rams on bottom. Install (2) 2 1/16" 3M gate valves on BOP outlets below the blind rams. Pressure test BOP equipment to 2,000 psi as per MCR Drilling Department's specifications.
6. TOOH w/ 2 3/8" production log, laying down. (Have 2 3/8" log inspected, replace as needed to obtain 3,850 ft.)

L.G. Warlick "C" #7 Recompletion Procedure (Continued)

7. Flange full opening valve to top of the BOPE. MIRU wireline co. w/ pack-off. Dump bail 5 sx of cmt on CIBP located @ 6,002. TIH w/ wireline set 5 1/2" 17# CIBP and set @ ± 4,200'. Dump 2 sx sand on plug.
8. Change out pipe rams to 2 7/8" and trip in hole w/ 5 1/2" 17# packer on 2 7/8" 6.5# L-80 rental string. Drop SV & test tubing to 1,000 psi, fish SV. Test CIBP located @ ± 4,200' to 1,000 psi. Test casing to ± 500 psi.
9. PU to ± 3,827'. MIRU acid co, pickle tubing w/ 300 gals 15% Nefe acid. Spot 200 gals 15% Nefe across Grayburg from 3,631 to 3,827'. TOO H w/ tbg & pkr.
10. MIRU wireline co. w/ full lubricator. Test lubricator to 1,000 psi. Correlate depth w/ Halliburton GR/CNL dated 3/9/00. Perforate the Grayburg from the top down as follows: 3730 - 3740', 3745 - 3763', 3787 - 3804', 3823 - 3827'. All shots w/ 23 gram charges @ 2 SPF & 120° phasing.
11. MIRU Hydrotesters. Test in hole w/ 5 1/2" 17# packer on 2 7/8" workstring to 7,500 psi. Set packer at ± 3,650'. Load backside & test to ± 500 psi.
12. MIRU acid co. Breakdown perms w/ 3,000 gals of 15% HCl w/ additives at 4 - 6 bpm. Drop 140 7/8" 1.3 SG ballsealers evenly for diversion. Surge balls and flow/swab back load, report entry & cut to Midland.
13. Release packer and run past bottom perforation @ 3,827' to knock any remaining ballsealers off of the perforations. PU to ± 3,650 and set packer.
14. Spot and visually inspect (2) clean manifolded frac tanks. Add biocide prior to filling w/ 850 bbls 2% KCl water.
15. MIRU Halliburton. Prepare to fracture stimulate the Grayburg w/ 28,500 gals Delta-Frac 20 carrying 750 sacks of 16/30 Ottawa sand. The treatment is designed to be pumped at 18 bpm w/ an estimated surface treating pressure of ± 5,000 psi. The proposed pumping schedule and material requirements are as follows:

Stage	Fluid	Volume (gals)	Conc. (lbs/gal)	Amount (lbs)	Proppant	Rate (bpm)	Press (psi)
Pad	Delta-Frac	11,000				18	4,157
Prop-laden	Delta-Frac	1,000	1	1,000	16/30 Ottawa	18	4,252
Prop-laden	Delta-Frac	1,500	2	3,000	16/30 Ottawa	18	4,355
Prop-laden	Delta-Frac	2,000	3	6,000	16/30 Ottawa	18	4,468
Prop-laden	Delta-Frac	4,000	4	16,000	16/30 Ottawa	18	4,587
Prop-laden	Delta-Frac	5,000	5	25,000	16/30 Ottawa	18	4,713
Prop-laden	Delta-Frac	4,000	6	24,000	16/30 Ottawa	18	4,789
Flush	Linear Gel	900				18	4,157
		29,400		75,000			

Frac Fluid: Delta-Frac 140 35,700 gals

Containing Per 1,000 gals

5.00	gpt	LGC-IV	Gellant
167.	ppt	KCl	Provided by MOC
1.00	gpt	Lo-Surf 300	Non-emulsifier
1.50	gpt	BC-140	Crosslinker/Buffer
0.50	ppt	GBW-30	Breaker
0.25	ppt	Opti-Flo HTE	Breaker
0.30	ppt	BE-5	Biocide

Proppant: 16/30 Ottawa 75,000 lbs

16. Once the main treatment has been flushed, obtain an ISIP then immediately initiate flowback at ± 2 bpm via a Guardian choke manifold to an open topped flowback tank. Flow well until it dies, or closure is reached. SION.
17. MIRU Slickline co. Tag sand fill w/ 1 1/4" sinker bar. If an insufficient amount of rathole is available for optimal placement of production equipment then cleanout to PBTD, else proceed as follows.
18. Swab back frac load to determine entry & cut. Report results to Midland.
19. Release packer and TOO H w/ workstring laying down.
20. Change out pipe rams to 2 3/8" and TIH w/ production tubing. Space out tubing such that the SN is located at approximately 3,850 ft.

L.G. Warlick "C" #7 Recompletion Procedure (Continued)

21. ND BOPE & NU Wellhead. RIH w/ rod string & pump. Space out plunger and hang well on. Test for pump action. Connect surface equipment.
22. Turn well over to Hobbs for extended production testing.

Approvals:

D.P. Nordt
Permian Basin Engineering Supervisor

Distr:

M. Wiskofske
A. Schwandt
T. Kacir
D. Arnst
T. Hallum
K. Cook
B. Longmire
W. Tank
Well File

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State of New Mexico
Energy, Minerals & Natural Resources Department

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Revised February 10, 1994
Instructions on back
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5 Copies

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, NM 87504-2088

☐ 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
		³ Reason for Filing Code 5197 AG / REQUEST POD
⁴ API Number 30-025-06598	⁵ Pool Name Subb Oil & Gas (etc)	⁶ Pool Code 60240
⁷ Property Code 6482	⁸ Property Name L. G. WARLICK "C"	⁹ Well Number 7

II. ¹⁰ Surface Location

UL or lot no. 2	Section 15	Township 21-S	Range 37-E	Lot. Idn	Feet from the 405	North/South Line S	Feet from the 2310	East/West line E	County LEA
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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	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 O/G	²² POD ULSTR Location and Description
020809	SID RICHARDSON GASOLINE P.O. BOX 1226 JAL NM 88252	2819323	G	UL J, SEC. 15, T-21-S, R-37-E METER @ L.G. WARLICK BATTERY

IV. Produced Water

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

²⁵ Spud Date	²⁶ Ready Date	²⁷ TD	²⁸ PBTD	²⁹ Perforations
³⁰ Hole Sie	³¹ Casing & Tubing Size	³² Depth Set	³³ Sacks Cement	

VI. Well Test Data

³⁴ Date New Oil	³⁵ Gas Delivery Date	³⁶ Test Date	³⁷ Test Length	³⁸ Tbg. Pressure	³⁹ Csg. Pressure
⁴⁰ Choke Size	⁴¹ Oil	⁴² Water	⁴³ Gas	⁴⁴ AOF	⁴⁵ Test Method

⁴⁶ 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:

Date:

5/7/97

Phone:

505-393-7106

OIL CONSERVATION DIVISION

Approved by:

Orig. Signed by:
Paul Kautz
Geologist

Title:

Approval Date:

MAY 28 1997

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 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-163
Revised 1-1-89

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

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

WELL API NO. 30-025-06598
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 L. G. WARLICK C
8. Well No. 7
9. Pool name or Wildcat TUBB OIL AND GAS

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 <input type="checkbox"/>	
2. Name of Operator Marathon Oil Company	
3. Address of Operator P.O. Box 552 Midland, Tx. 79702	
4. Well Location Unit Letter <u>0</u> : <u>405</u> Feet From The <u>SOUTH</u> Line and <u>2310</u> Feet From The <u>EAST</u> Line Section <u>15</u> Township <u>21-S</u> Range <u>37-E</u> NMPM LEA County 10. Elevation (Show whether DP, RKB, RT, GR, etc.) GL: 3415' DF: 3429'	

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: REQUEST TA STATUS ☒

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.

9/22/92 MIRU PU. POOH W/239 3/4" & 7 7/8" RODS AND PUMP. ND WELLHEAD.
NU BOPs. POOH W/202 JTS OF 2-3/8" TUBING RIH W/5-1/2" CIBP
ON 2-3/8" TUBING. SET CIBP @ 6007'. CLOSED PIPE RAMS. SDFN.

9/23/92 LOADED CASING W/2% KCL WATER W/0.5% INHIBITOR. TESTED CASING
TO 580 PSI W/0 PSI DROP IN 30 MINUTES (TEST WITNESSED BY CHARLIE
PERRIN OF NMCD). RELEASED PRESSURE. POOH W/2-3/8" TUBING AND
SETTING TOOL. RIH W/197 JTS OF 2-3/8" TUBING. ND BOPs.
NU WELLHEAD. SIW. RD PU. CLEANED UP LOCATION. MOL.

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

SIGNATURE Brent D Lockhart TITLE ADVANCED ENG. TECH. DATE 9/28/92
TYPE OR PRINT NAME BRENT D. LOCKHART TELEPHONE NO. 682-1626

(This space for State Use)

ORIGINAL SIGNED BY JERRY SEXTON
DISTRICT I SUPERVISOR

APPROVED BY _____ DATE OCT 15 1992

CONDITIONS OF APPROVAL, IF ANY:

This Approval of Temporary
Abandonment Expires 10-1-97