Form 3160-5 (June 2019)

# UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021

BURI	EAU OF LAND MANAGEMENT	5. Lease Serial No.	5. Lease Serial No. NMNM136221					
Do not use this f	OTICES AND REPORTS ON Worm for proposals to drill or to Use Form 3160-3 (APD) for suc	re-enter an		or Tribe Name				
	TRIPLICATE - Other instructions on pag	e 2	7. If Unit of CA/Ag	reement, Name and/or No.				
1. Type of Well  Oil Well  Gas W	Vell Other		8. Well Name and N	8. Well Name and No. DOGIE DRAW E25 WC FED COM/				
2. Name of Operator MARATHON OI	L PERMIAN LLC		9. API Well No. 300					
3a. Address 990 TOWN & COUNTR		(include area code	2) 10. Field and Pool o					
4. Location of Well (Footage, Sec., T.,R SEC 14/T25S/R34E/NMP	.,M., or Survey Description)		11. Country or Paris	h, State				
12. CHE	CK THE APPROPRIATE BOX(ES) TO INI	DICATE NATURI	E OF NOTICE, REPORT OR O	THER DATA				
TYPE OF SUBMISSION		TY	PE OF ACTION					
Notice of Intent		en raulic Fracturing	Production (Start/Resume	Water Shut-Off Well Integrity				
Subsequent Report		Construction and Abandon	Recomplete Temporarily Abandon	Other				
Final Abandonment Notice		Back	Water Disposal					
completed. Final Abandonment Not is ready for final inspection.)  Please see the attached drill p Marathon Oil respectfully requestigned approved plan - 9-5/8' Proposed option 2 plan - 8-5/8  Also please see the drill plan for	" casing & 9-7/8" hole size or additional changes to cement design	s, including reclar om #7H well. the intermediate	nation, have been completed and casing.					
14. I hereby certify that the foregoing is TERRI STATHEM / Ph: (713) 296-2	· · · · · · · · · · · · · · · · · · ·	Regulator Title	y Compliance Manager					
Signature (Electronic Submissio	n)	Date 11/16/2023						
	THE SPACE FOR FED	ERAL OR ST	ATE OFICE USE					
Approved by								
ZOTA M STEVENS / Ph: (575) 234	1-5998 / Approved	Title Petro	oleum Engineer	11/17/2023 Date				
	ned. Approval of this notice does not warran quitable title to those rights in the subject le duct operations thereon.		RLSBAD					
	3 U.S.C Section 1212, make it a crime for arents or representations as to any matter with		ly and willfully to make to any	department or agency of the United States				

(Instructions on page 2)

#### **GENERAL INSTRUCTIONS**

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

#### SPECIFIC INSTRUCTIONS

*Item 4* - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

### **NOTICES**

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

**BURDEN HOURS STATEMENT:** Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

(Form 3160-5, page 2)

# **Additional Information**

#### **Location of Well**

0. SHL: NESW / 2602 FSL / 1786 FWL / TWSP: 25S / RANGE: 34E / SECTION: 14 / LAT: 32.1303906 / LONG: -103.4435221 ( TVD: 27 feet, MD: 27 feet )
PPP: NENW / 0 FNL / 1321 FWL / TWSP: 25S / RANGE: 34E / SECTION: 23 / LAT: 32.1232478 / LONG: -103.4450177 ( TVD: 12522 feet, MD: 14876 feet )
PPP: NESW / 2310 FSL / 1322 FWL / TWSP: 25S / RANGE: 34E / SECTION: 14 / LAT: 32.1294653 / LONG: -103.444552 ( TVD: 12522 feet, MD: 12887 feet )
BHL: SWSW / 330 FSL / 1323 FWL / TWSP: 25S / RANGE: 34E / SECTION: 23 / LAT: 32.1096407 / LONG: -103.4450157 ( TVD: 12522 feet, MD: 19826 feet )

County or Parish/State: LEA /

FED COM

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

Well Name: DOGIE DRAW E25 WC Well Location: T25S / R34E / SEC 14 /

NESW / 32.1303906 / -103.4435221

1110

Well Number: 7H Type of Well: OIL WELL Allottee or Tribe Name:

Lease Number: NMNM136221 Unit or CA Name: Unit or CA Number:

US Well Number: 300254701500X1 Well Status: Approved Application for Operator: MARATHON OIL

Permit to Drill PERMIAN LLC

#### **Notice of Intent**

Sundry ID: 2761825

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 11/16/2023

Time Sundry Submitted: 07:17

Date proposed operation will begin: 12/01/2023

**Procedure Description:** Please see the attached drill plans for the Dogie Draw E25 WC Fed Com #7H well. Marathon Oil respectfully request approval to have two (2) options for the intermediate casing. Original approved plan - 9-5/8" casing & 12-1/4" hole size Proposed option 2 plan - 8-5/8" casing & 9-7/8" hole size Also please see the drill plan for additional changes to cement design due to the hole & casing size change.

## **NOI Attachments**

#### **Procedure Description**

C102\_Dogie\_Draw\_7H\_20231116162808.pdf

 $8.625\_32.00\_AXIS\_P110\_HC\_TLW\_\_Alt\_drift\_\_7.875\_20231116071620.pdf$ 

Dogie\_Draw\_7H\_Drill\_Plan\_Option\_2\_20231116071516.pdf

Dogie\_Draw\_7H\_Drill\_Plan\_20231116071458.pdf

Received by OCD: Well Walle 3000 to DRAME25 WC

FED COM

**US Well Number: 300254701500X1** 

Well Location: T25S / R34E / SEC 14 /

County or Parish/State: LEA /

NESW / 32.1303906 / -103.4435221

Well Number: 7H Type of Well: OIL WELL

Unit or CA Number: Lease Number: NMNM136221 Unit or CA Name:

Well Status: Approved Application for Permit to Drill

Operator: MARATHON OIL

Allottee or Tribe Name:

Page 5 of 21

PERMIAN LLC

# **Conditions of Approval**

#### **Specialist Review**

Dogie\_Draw\_E25\_WC\_Fed\_Com\_\_7H\_COA\_20231117093231.pdf

# **Operator**

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

**Operator Electronic Signature: TERRI STATHEM** Signed on: NOV 16, 2023 04:28 PM

Name: MARATHON OIL PERMIAN LLC Title: Regulatory Compliance Manager

Street Address: 990 TOWN & COUNTRY BLVD City: HOUSTON State: TX

Phone: (713) 296-2113

Email address: TSTATHEM@MARATHONOIL.COM

#### **Field**

Representative Name:

Street Address:

City: State: Zip:

Phone:

Email address:

## **BLM Point of Contact**

**BLM POC Name: ZOTA M STEVENS BLM POC Title:** Petroleum Engineer

**BLM POC Phone: 5752345998** BLM POC Email Address: ZSTEVENS@BLM.GOV

Disposition: Approved Disposition Date: 11/17/2023

Signature: Zota Stevens

Page 2 of 2

District IV

1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 <u>District II</u> 811 S. Firrs St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 <u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170

1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

# State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

☐ AMENDED REPORT

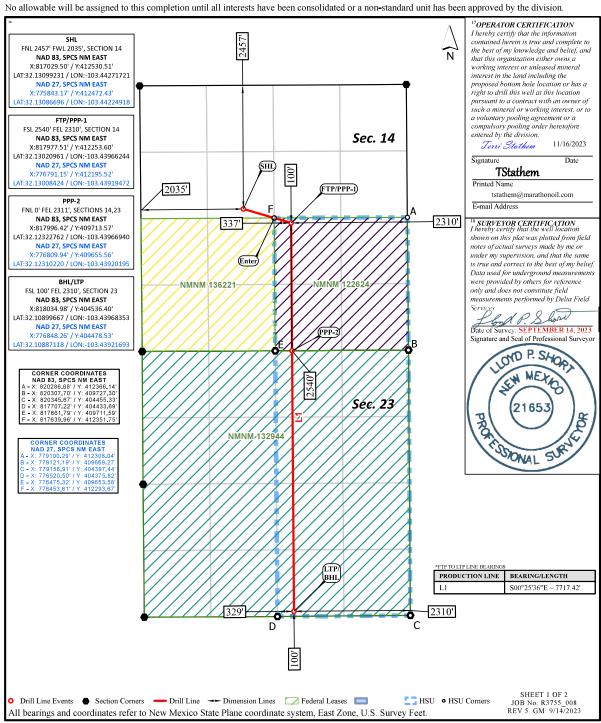
#### WELL LOCATION AND ACREAGE DEDICATION PLAT

30-025-4701	<sup>2</sup> Pool C 969		<sup>3</sup> Pool Name 'H; WOLFCAMP (SOUTH)
<sup>4</sup> Property Code 327334		DOGIE DRAW E25 WC Fed Com	<sup>6</sup> Well Number 7H
<sup>7</sup> OGRID No. 372098	MA	<sup>8</sup> Operator Name ARATHON OIL PERMIAN LLC	<sup>5</sup> Elevation 3333'

<sup>10</sup> Surface Location

Range

	F	14	25S	34E		2457'	NORTH	2035'	WEST	LEA
<sup>11</sup> Bottom Hole Location If Different From Surface										
- 1	UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	O	23	25S	34E		100'	SOUTH	2310'	EAST	LEA
	12 Dedicated Acres 480.00	<sup>13</sup> Je	oint or Infill	<sup>14</sup> Cons	solidation Code	<sup>15</sup> Order No.				





# TEC-LOCK WEDGE 8.625" 32.00 LB/FT (.352"Wall)

**AXIS P110 HC** 

# **Pipe Body Data**

Nominal OD:	8.625	in
Nominal Wall:	.352	in
Nominal Weight:	32.00	lb/ft
Plain End Weight:	31.13	lb/ft
Material Grade:	P110 HC	
Mill/Specification:	AXIS	
Yield Strength:	110,000	psi
Tensile Strength:	125,000	psi
Nominal ID:	7.921	in
API Drift Diameter:	7.796	in
Special Drift Diameter:	7.875	in
RBW:	87.5 %	
Body Yield:	1,006,000	lbf
Burst:	7,860	psi
Collapse:	4,170	psi

# **Connection Data**

Standard OD:	9.000	in
Pin Bored ID:	7.921	in
Critical Section Area:	8.614	in²
Tensile Efficiency:	94.2 %	
Compressive Efficiency:	98.5 %	
Longitudinal Yield Strength:	948,000	lbf
Compressive Limit:	991,000	lbf
Internal Pressure Rating:	7,860	psi
External Pressure Rating:	4,170	psi
Maximum Bend:	55.1	°/100ft

# **Operational Data**

Minimum Makeup Torque:	26,900	ft*lbf
Optimum Makeup Torque:	33,600	ft*lbf
Maximum Makeup Torque:	74,300	ft*lbf
Minimum Yield:	82,600	ft*lbf
Makeup Loss:	5.97	in

Notes Operational Torque is equivalent to the Maximum Make-Up Torque



Generated on 7/26/2022

# MARATHON OIL PERMIAN, LLC. DRILLING AND OPERATIONS PLAN



WELL NAME & NUMBER:

**DOGIE DRAW E25 WC 7H** 

LOCATION: SECTION 14 TOWNSHIP 25S RANGE 34E

LEA COUNTY, NEW MEXICO

Section 1:

#### **GEOLOGICAL FORMATIONS**

Name of Surface Formation: Permian Elevation: 3333 feet

**Estimated Tops of Important Geological Markers:** 

Formation	TVD (ft)	MD (ft)	Elevation (ft SS)	Lithologies	Mineral Resources	Producing Formation?
Rustler	857	857	2476	Anhydrite	Brine	No
Salado	1363	1363	1970	Salt/Anhydrite	Brine	No
Castile	3562	3562	-229	Salt/Anhydrite	Brine	No
Base of Salt (BX)	5370	5370	-2037	Salt/Anhydrite	Brine	No
Lamar	5370	5370	-2037	Sandstone/Shale	None	No
Bell Canyon	5402	5402	-2069	Sandstone	Oil	No
Cherry Canyon	6710	6710	-3377	Sandstone	Oil	No
Brushy Canyon	8013	8013	-4680	Sandstone	Oil	No
Bone Spring Lime	9296	9296	-5963	Limestone	None	No
Upper Avalon Shale	9296	9296	-5963	Shale	Oil	Yes
1st Bone Spring Sand	10346	10346	-7013	Sandstone	Oil	Yes
2nd Bone Spring Carbonate	10346	10346	-7013	Limestone/Shale	None	No
2nd Bone Spring Sand	10925	10925	-7592	Sandstone	Oil	Yes
3rd Bone Spring Carbonate	11966	11966	-8633	Limestone	Oil	No
3rd Bone Spring Sand	11966	11966	-8633	Sandstone	Oil	Yes
Wolfcamp	12422	12422	-9089	Sandstone/Shale/Carbonates	Natural Gas / Oil	Yes
Wolfcamp A	12565	12565	-9232	Sandstone/Shale/Carbonates	Natural Gas / Oil	Yes
Wolfcamp B	12918	12918	-9585	Sandstone/Shale/Carbonates	Natural Gas / Oil	No
Wolfcamp C	13020	13020	-9687	Sandstone/Shale/Carbonates	Natural Gas / Oil	No
Wolfcamp D	13352	13352	-10019	Sandstone/Shale/Carbonates	Natural Gas / Oil	No

#### Section 2:

#### **BLOWOUT PREVENTER TESTING PROCEDURE**

Pressure Rating (PSI): 10M Rating Depth: 10000

Equipment: 13 5/8 BOP Annular (5,000 psi WP) and BOP Stack (10,000 psi WP) will be installed and tested before drilling all holes.

Requesting Variance?

Yes

Variance Request:

A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.

**Testing Procedure:** 

BOP/BOPE will be tested to 250 psi low and a high of 100% WP for the Annular and 5,000psi for the BOP Stack before drilling the intermediate hole, 10,000psi for the BOP Stacking before drilling the production hole. Testing will be conducted by an independent service company per 43 CFR 3172 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the Equipment Description above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams and Blind rams will be operationally checked on each trip out of the hole, but not to exceed more than once per day. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock, full opening safety valve / inside BOP and choke lines and choke manifold. See attached schematics.

Formation integrity test will be performed per 43 CFR 3172. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with 43 CFR 3172. A multibowl wellhead is being used. The BOP will be tested per 43 CFR 3172 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. See attached schematic.

Marathon Oil Permian LLC. Drilling & Operations Plan - Page 2 of 4

# Section 3: CASING PROGRAM et al. et

String Type	Hole Size	Casing Size	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Weight (lbs/ft)	Grade	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
Surface	17.5	13.375	0	882	0	882	3333	2451	54.5	J55	втс	5.22	1.81	BUOY	4.52	BUOY	4.52
Intermediate	9.875	8.625	0	12022	0	11922	3333	-8589	32	P110HC	TLW	1.20	1.42	BUOY	2.44	BUOY	2.44
Production	7.875	5.5	0	20579	0	12500	3333	-9167	20	P110HC	TLW	2.45	1.26	BUOY	2.21	BUOY	2.21
	All casing strings will be tested in accordance with 43 CFR 3172.												Safety	Factors wi	ll Meet or	Exceed	

Casing Condition:NewCasing Standard:APITapered String?No

Yes or No

	res or No
Is casing new? If used, attach certification as required in 43 CFR 3171.	Yes
Does casing meet API specifications? If no, attach casing specification sheet.	Yes
Is premium or uncommon casing planned? If yes attach casing specification sheet.	No
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Yes
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Yes
Is well located within Capitan Reef?	No
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is proposed well within the designated four string boundary?	
Is well located in R-111-P and SOPA?	No
If yes, are the first three strings cemented to surface?	
Is the second string set 100' to 600' below the base of salt?	
Is well located in SOPA but not in R-111-P?	No
If yes, are the first 2 strings cemented to surface and third string cement tied back 500' into previous casing?	
Is well located in high Cave/Karst?	No
If yes, are there two strings cemented to surface?	
If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	No
If yes, are there three strings cemented to surface?	

Section 4: CEMENT PROGRAM										
String Type	Lead/Tail	Top MD	Bottom MD	Quantity (sks)	Yield (ft³/sks)	Density (ppg)	Slurry Volume (ft³)	Excess (%)	Cement Type	Additives
Surface	Lead	0	732	323	2.12	12.5	684	25	Class C	Extender,Accelerator,LCM
Surface	Tail	732	882	99	1.32	14.8	130	25	Class C	Accelerator
Intermediate	Lead	0	11522	1003	2.18	12.4	2187	25	Class C	Extender,Accelerator,LCM
Intermediate	Tail	11522	12022	59	1.33	14.8	79	25	Class C	Retarder
Production	Tail	11722	20579	1169	1.68	13	1964	25	Class H	Retarder, Extender, Fluid Loss, Suspension Agent

Stage tool depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. Stage tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

 Pilot Hole?
 No
 Plugging Procedure for Pilot Hole:
 N/A

 $\begin{array}{lll} \textbf{Pilot Hole Depth:} & \text{N/A} \\ \textbf{KOP Depth:} & \text{N/A} \\ \end{array}$ 

Plug Top	Plug Bottom	Excess (%)	Quantity (sx)	Density (ppg)	Yield (ft3/sks)	Water gal/sk	Slurry Description and Cement Type

Marathon Oil Permian LLC. Drilling & Operations Plan - Page 3 of 4

# Section 5: CIRCULATING MEDIUM

Mud System Type: Closed
Will an air or gas system be used? No

#### Describe what will be on location to control well or mitigate other conditions:

The necessary mud products for additional weight and fluid loss control will be on location at all times.

#### Describe the mud monitoring system utilized:

Losses or gains in the mud system will be monitored visually/manually as well as with an electronic PVT.

#### **Circulating Medium Table:**

Top Depth	Bottom Depth	Mud Type	Min. Weight (ppg)	Max Weight (ppg)
0	882	Water Based Mud	8.4	8.8
882	12022	Brine or Oil Based Mud	9.2	10.2
12022	20579	Oil Based Mud	10.5	12.5

#### Section 6:

#### **TESTING, LOGGING, CORING**

#### List of production tests including testing procedures, equipment and safety measures:

GR from TD to surface (horizontal well - vertical portion of hole)

#### List of open and cased hole logs run in the well:

GR while drilling from Intermediate casing shoe to TD.

#### Coring operation description for the well:

Run gamma-ray (GR) and corrected neutron log (CNL) or analogous to surface for future development of the area, one per shared well pad not to exceed 200' radial distance.

Section 7:	ANTICIPATED PRESSURE
Anticipated Bottom Hole Pressure:	<b>8125</b> PSI
Anticipated Bottom Hole Temperature:	195 °F
Anticipated Abnormal Pressure?	No
Anticipated Abnormal Temperature?	No

#### Potential Hazards:

H2S detection equipment will be in operation after drilling out the surface casing shoe until the production casing has been cemented. Breathing equipment will be on location from drilling out the surface shoe until production casing is cemented. If H2S is encountered the operator will comply with 43 CFR 3176. Adequate flare lines will be installed off the mud/gas separator where gas may be flared safely. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. See attached H2S Contingency Plan.

#### Section 8: OTHER INFORMATION

#### **Auxiliary Well Control and Monitoring Equipment:**

A Kelly cock will be in the drill string at all times. A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor unobstructed and readily accessible at all times.

Hydrogen Sulfide detection equipment will be in operation after drilling out the surface casing shoe until the production casing is cemented. Breathing equipment will be on location upon drilling the surface casing shoe until total depth is reached. If Hydrogen Sulfide is encountered, measured amounts and formations will be reported to the BLM.

#### **Anticipated Starting Date and Duration of Operations:**

Road and location construction will begin after the BLM has approved the APD. Anticipated spud date will be as soon as possible after BLM approval and as soon as a rig will be available. Move in operations and drilling is expected to take 30 days.

# MARATHON OIL PERMIAN, LLC. DRILLING AND OPERATIONS PLAN



WELL NAME & NUMBER:

**DOGIE DRAW E25 WC 7H** 

LOCATION: SECTION 14 TOWNSHIP 25S RANGE 34E

LEA COUNTY, NEW MEXICO

Section 1:

#### **GEOLOGICAL FORMATIONS**

Name of Surface Formation:PermianElevation:3333 feet

**Estimated Tops of Important Geological Markers:** 

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Bone Spring Lime	9296	9296	-5963	Limestone	None	No
Upper Avalon Shale	9296	9296	-5963	Shale	Oil	Yes
1st Bone Spring Sand	10346	10346	-7013	Sandstone	Oil	Yes
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3rd Bone Spring Carbonate	11966	11966	-8633	Limestone	Oil	No
3rd Bone Spring Sand	11966	11966	-8633	Sandstone	Oil	Yes
Wolfcamp	12422	12422	-9089	Sandstone/Shale/Carbonates	Natural Gas / Oil	Yes
Wolfcamp A	12565	12565	-9232	Sandstone/Shale/Carbonates	Natural Gas / Oil	Yes
Wolfcamp B	12918	12918	-9585	Sandstone/Shale/Carbonates	Natural Gas / Oil	No
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BOP/BOPE will be tested to 250 psi low and a high of 100% WP for the Annular and 5,000psi for the BOP Stack before drilling the intermediate hole, 10,000psi for the BOP Stacking before drilling the production hole. Testing will be conducted by an independent service company per 43 CFR 3172 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the Equipment Description above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams and Blind rams will be operationally checked on each trip out of the hole, but not to exceed more than once per day. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock, full opening safety valve / inside BOP and choke lines and choke manifold. See attached schematics.

Formation integrity test will be performed per 43 CFR 3172. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with 43 CFR 3172. A multibowl wellhead is being used. The BOP will be tested per 43 CFR 3172 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. See attached schematic.

Section 3:

Marathon Oil Permian LLC. Drilling & Operations Plan - Page 2 of 3 CASING PROGRAM

#### Weight (lbs/ft) Bottom Set MSL Bottom Set MD Bottom Set TVD Joint Type Joint SF Type Body SF Type String Type Collapse SF Casing Size **Burst SF** Hole Size Top Set MD Top Set TVD Top Set MSL SF SF Grade Joint ! Body Surface BUOY 17.5 13.375 0 882 0 882 3333 2451 54.5 J55 BTC 5.22 1.81 4.52 BUOY 4.52 Intermediate 12.25 9.625 -8589 P110HC втс 1.42 BUOY BUOY 2.44 0 12022 0 11922 3333 40 1.20 2.44 Production 8.75 5.5 0 20579 0 12500 3333 -9167 23 P110HC $\mathsf{TLW}$ 2.53 1.26 BUOY 2.22 BUOY 2.22

All casing strings will be tested in accordance with 43 CFR 3172.

**Casing Condition:** New API **Casing Standard:** Tapered String? No

Yes or No

Safety Factors will Meet or Exceed

	res or No
Is casing new? If used, attach certification as required in 43 CFR 3171.	Yes
Does casing meet API specifications? If no, attach casing specification sheet.	Yes
Is premium or uncommon casing planned? If yes attach casing specification sheet.	No
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Yes
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Yes
Is well located within Capitan Reef?	No
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is proposed well within the designated four string boundary?	
Is well located in R-111-P and SOPA?	No
If yes, are the first three strings cemented to surface?	
Is the second string set 100' to 600' below the base of salt?	
Is well located in SOPA but not in R-111-P?	No
If yes, are the first 2 strings cemented to surface and third string cement tied back 500' into previous casing?	
Is well located in high Cave/Karst?	No
If yes, are there two strings cemented to surface?	
If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	No
If yes, are there three strings cemented to surface?	

Section 4:	Section 4: CEMENT PROGRAM									
String Type	Lead/Tail	Тор МD	Bottom MD	Quantity (sks)	Yield (ft³/sks)	Density (ppg)	Slurry Volume (ft³)	Excess (%)	Cement Type	Additives
Surface	Lead	0	732	323	2.12	12.5	684	25	Class C	Extender,Accelerator,LCM
Surface	Tail	732	882	99	1.32	14.8	130	25	Class C	Accelerator
Intermediate	Lead	0	11522	2094	2.18	12.4	4565	25	Class C	Extender,Accelerator,LCM
Intermediate	Tail	11522	12022	147	1.33	14.8	196	25	Class C	Retarder
Production	Tail	11722	20579	1705	1.68	13	2865	25	Class H	Retarder, Extender, Fluid Loss, Suspension Agent

Stage tool depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. Stage tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Pilot Hole? No Plugging Procedure for Pilot Hole: N/A

Pilot Hole Depth: N/A **KOP Depth:** N/A

Plug Top	Plug Bottom	Excess (%)	Quantity (sx)	Density (ppg)	Yield (ft3/sks)	Water gal/sk	Slurry Description and Cement Type

Marathon Oil Permian LLC.

Drilling & Operations Plan - Page 3 of 3

# Section 5: CIRCULATING MEDIUM

Mud System Type: Closed
Will an air or gas system be used? No

#### Describe what will be on location to control well or mitigate other conditions:

The necessary mud products for additional weight and fluid loss control will be on location at all times.

#### Describe the mud monitoring system utilized:

Losses or gains in the mud system will be monitored visually/manually as well as with an electronic PVT.

#### **Circulating Medium Table:**

Top Depth	Bottom Depth	Mud Type	Min. Weight (ppg)	Max Weight (ppg)
0	882	Water Based Mud	8.4	8.8
882	12022	Brine or Oil Based Mud	9.2	10.2
12022	20579	Oil Based Mud	10.5	12.5

#### Section 6:

#### **TESTING, LOGGING, CORING**

#### List of production tests including testing procedures, equipment and safety measures:

GR from TD to surface (horizontal well - vertical portion of hole)

#### List of open and cased hole logs run in the well:

GR while drilling from Intermediate casing shoe to TD.

#### Coring operation description for the well:

Run gamma-ray (GR) and corrected neutron log (CNL) or analogous to surface for future development of the area, one per shared well pad not to exceed 200' radial distance.

Section 7:	ANTICIPATED PRESSURE	
Anticipated Bottom Hole Pressure:	<b>8125</b> PSI	
Anticipated Bottom Hole Temperature:	195 °F	
Anticipated Abnormal Pressure?	No	
Anticipated Abnormal Temperature?	No	

#### Potential Hazards:

H2S detection equipment will be in operation after drilling out the surface casing shoe until the production casing has been cemented. Breathing equipment will be on location from drilling out the surface shoe until production casing is cemented. If H2S is encountered the operator will comply with 43 CFR 3176. Adequate flare lines will be installed off the mud/gas separator where gas may be flared safely. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. See attached H2S Contingency Plan.

#### Section 8: OTHER INFORMATION

#### **Auxiliary Well Control and Monitoring Equipment:**

A Kelly cock will be in the drill string at all times. A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor unobstructed and readily accessible at all times.

Hydrogen Sulfide detection equipment will be in operation after drilling out the surface casing shoe until the production casing is cemented. Breathing equipment will be on location upon drilling the surface casing shoe until total depth is reached. If Hydrogen Sulfide is encountered, measured amounts and formations will be reported to the BLM.

#### **Anticipated Starting Date and Duration of Operations:**

Road and location construction will begin after the BLM has approved the APD. Anticipated spud date will be as soon as possible after BLM approval and as soon as a rig will be available. Move in operations and drilling is expected to take 30 days.

# PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: Marathon
LEASE NO.: NMNM136221
LOCATION: Section 14, T.25 S, R.34 E., NMPM
COUNTY: Lea County, New Mexico

WELL NAME & NO.: Dogie Draw E25 WC Fed Com 7H
SURFACE HOLE FOOTAGE: 2457'/N & 2035'/W
BOTTOM HOLE FOOTAGE: 100'/S & 2310'/E

Changes approved through engineering via **Sundry 2761825**\_ on **11-17-2023**. Any previous COAs not addressed within the updated COAs still apply.

COA

H <sub>2</sub> S	© Yes	No		
Potash / WIPP	None	Secretary	C R-111-P	□ WIPP
Cave / Karst	© Low	Medium	C High	Critical
Wellhead	Conventional	• Multibowl	O Both	<ul><li>Diverter</li></ul>
Cementing	Primary Squeeze	Cont. Squeeze	EchoMeter	DV Tool
Special Req	Break Testing	Water Disposal	<b>▼</b> COM	Unit
Variance	Flex Hose	Casing Clearance	Pilot Hole	Capitan Reef
Variance	Four-String	Offline Cementing	Fluid-Filled	Open Annulus
		Batch APD / Sundry		

## A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area must meet all requirements from **43 CFR 3176**, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

# **B. CASING**

- 1. The 13-3/8 inch surface casing shall be set at approximately 950 feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8** hours or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the 8-5/8 inch intermediate casing is:
  - Cement to surface. If cement does not circulate see B.1.a, c-d above.

Wait on cement (WOC) time for a primary cement job is to include the tail cement slurry due to cave/karst.

- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
  - Cement should tie-back at least **200 feet** into previous casing string.

Operator is approved to use contingency plan. Operator shall notify BLM before proceeding with the contingency plan.

## C. PRESSURE CONTROL

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
- 2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the casing shoe shall be 10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - c. Manufacturer representative shall install the test plug for the initial BOP test.
  - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
  - e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.

# D. SPECIAL REQUIREMENT (S)

# **Communitization Agreement**

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in 43 CFR 3171 and 3172.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

# **GENERAL REQUIREMENTS**

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
  - Eddy County
    Email or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, BLM\_NM\_CFO\_DrillingNotifications@BLM.GOV (575) 361-2822
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.

- a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
- b. When the operator proposes to set surface casing with Spudder Rig
  - Notify the BLM when moving in and removing the Spudder Rig.
  - Notify the BLM when moving in the 2<sup>nd</sup> Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
  - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 3172** as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

#### A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- 2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours.

WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.

- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

# B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in 43 CFR part 3170 Subpart 3172 and API STD 53 Sec. 5.3.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.

- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - c. Manufacturer representative shall install the test plug for the initial BOP test.
  - d. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR part 3170 Subpart 3172 must be followed.
  - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
  - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
  - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
  - c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR part 3170 Subpart 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per 43 CFR part 3170 Subpart 3172.

# C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

### D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

ZS 11/17/2023

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505** 

CONDITIONS

Action 287537

## **CONDITIONS**

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
990 Town & Country Blvd.	Action Number:
Houston, TX 77024	287537
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

#### CONDITIONS

Created By	Condition	Condition Date
pkautz	None	11/21/2023