Sundry Print Report

Page 1 of 9

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

Well Name: MAXIMUS 5 WXY FED

COM

Well Location: T23S / R28E / SEC 6 /

LOT 5 / 32.337352 / -104.1334132

County or Parish/State: EDDY /

NM

Well Number: 2H

Type of Well: CONVENTIONAL GAS

WELL

IONAL GAS Allottee or Tribe Name:

Lease Number: NMNM32636

Unit or CA Name:

Unit or CA Number:

**US Well Number: 3001553405** 

Operator: MARATHON OIL PERMIAN

LĽC

### **Subsequent Report**

**Sundry ID**: 2819676

Type of Submission: Subsequent Report

Type of Action: Drilling Operations

Date Sundry Submitted: 10/29/2024

Time Sundry Submitted: 02:56

Date Operation Actually Began: 04/05/2023

**Actual Procedure:** While drilling the Maximus 5 WXY Fed Com 2H well learned our offsets had encountered losses while drilling intermediate casing string. Requested approval from the BLM to set intermediate casing @ 8888' to avoid potential issues. Please see attached drill plan for change to intermediate casing and cement design.

### **SR Attachments**

### **PActual Procedure**

Maximus\_2H\_Drill\_Plan\_Chg\_Int\_csg\_20241029145644.pdf

Received by OCD: WERWARDANA 2M 5 & PMXY FED

Well Location: T23S / R28E / SEC 6 / LOT 5 / 32.337352 / -104.1334132

County or Parish/State: EDDY /

Page 2 of 9

Well Number: 2H Type of Well: CONVENTIONAL GAS

Allottee or Tribe Name:

Lease Number: NMNM32636

Unit or CA Name:

**Unit or CA Number:** 

**US Well Number: 3001553405** Operator: MARATHON OIL PERMIAN

LLC

### **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: OCT 29, 2024 02:55 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: KEITH P IMMATTY BLM POC Title: ENGINEER** 

**BLM POC Phone:** 5759884722 BLM POC Email Address: KIMMATTY@BLM.GOV

Disposition: Accepted Disposition Date: 10/29/2024

Signature: Keith Immatty

Page 2 of 2

Form 3160-5 (June 2019)

# UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 202

(June 2017)	DEF	PARTMENT OF THE I	NTERIOR			Expires: October 31,	2021
	BUR	EAU OF LAND MANA	AGEMENT		5. Lease Serial No.	NMNM32636	
•	SUNDRY N	IOTICES AND REPO	RTS ON W	ELLS	6. If Indian, Allottee or Tr	ibe Name	
		form for proposals t					
арапоо		Use Form 3160-3 (A			7. If Unit of CA/Agreement	nt Nama and/or No	
	SUBMIT IN	TRIPLICATE - Other instru	ıctions on page	2	- /. If Offit of CA/Agreeme	nt, mame and/or no.	
1. Type of Well  Oil Well	<b>✓</b> Gas V	<del></del>			8. Well Name and No.  MAXIMUS 5 WXY FED COM/2H		
2. Name of Operator MA	ARATHON OI	L PERMIAN LLC			9. API Well No. 3001553	3405	
			3b. Phone No. (	include area code)	10. Field and Pool or Expl		
			(713) 296-211	3	BOBCAT DRAW/BONE SPRII	NG, SOUTH	
4. Location of Well (Food SEC 6/T23S/R28E/N		R.,M., or Survey Description)			11. Country or Parish, State	te	
	12. CHE	CK THE APPROPRIATE BO	OX(ES) TO IND	ICATE NATURE (	OF NOTICE, REPORT OR	OTHER DATA	
TYPE OF SUBM	ISSION			TYPE	E OF ACTION		
Notice of Intent		Acidize	Deepe	n [	Production (Start/Resur	me) Water Shu	ut-Off
reduce of intent		Alter Casing	Hydra Hydra	ulic Fracturing [	Reclamation	Well Integ	grity
Subsequent Repo	rt	Casing Repair	New C	Construction	Recomplete	<b>V</b> Other	
		Change Plans	Plug a	nd Abandon	Temporarily Abandon		
Final Abandonme	ent Notice	Convert to Injection	Plug F	Back	Water Disposal		
completed. Final Ab is ready for final insp While drilling the Requested appropriate see attact	andonment No pection.)  Maximus 5 V  oval from the  hed drill plan	ons. If the operation results in tices must be filed only after VXY Fed Com 2H well lear BLM to set intermediate cafor change to intermediate for change to intermediate.	all requirements, med our offsets asing @ 8888' t casing and ce	, including reclama had encountered o avoid potential	tion, have been completed a	and the operator has de	etennined that the site
TERRI STATHEM / P				Regulatory Title	Compliance Manager		
Signature (Electro	nic Submissio	on)		Date	10/2	29/2024	
		THE SPACE	FOR FEDE	RAL OR STA	TE OFICE USE		
Approved by							
KEITH P IMMATTY /	Ph: (575) 988	8-4722 / Accepted		Title ENGIN	NEER	Date 1	0/29/2024
	holds legal or o	hed. Approval of this notice of equitable title to those rights induct operations thereon.			LSBAD		
Title 18 U.S.C Section 10	001 and Title 4	3 U.S.C Section 1212, make	it a crime for any	y person knowingly	and willfully to make to an	y department or agend	cy of the United States

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 State any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(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

### **Additional Information**

### **Location of Well**

0. SHL: LOT 5 / 1605 FNL / 442 FWL / TWSP: 23S / RANGE: 28E / SECTION: 6 / LAT: 32.337352 / LONG: -104.1334132 ( TVD: 0 feet, MD: 0 feet ) PPP: LOT 4 / 660 FNL / 330 FWL / TWSP: 23S / RANGE: 28E / SECTION: 6 / LAT: 32.3399497 / LONG: -104.13374 ( TVD: 9315 feet, MD: 9477 feet ) PPP: LOT 1 / 661 FNL / 1341 FEL / TWSP: 23S / RANGE: 28E / SECTION: 5 / LAT: 32.3400712 / LONG: -104.1048931 ( TVD: 9465 feet, MD: 18079 feet ) BHL: LOT 1 / 660 FNL / 330 FEL / TWSP: 23S / RANGE: 28E / SECTION: 5 / LAT: 32.340104 / LONG: -104.1016149 ( TVD: 9489 feet, MD: 19400 feet )

## MARATHON OIL PERMIAN, LLC. DRILLING AND OPERATIONS PLAN



WELL NAME & NUMBER:

### **MAXIMUS 5 WXY FED COM 2H**

LOCATION: SECTION 6 TOWNSHIP 23S RANGE 28E

EDDY COUNTY, NEW MEXICO

Section 1:

### **GEOLOGICAL FORMATIONS**

Name of Surface Formation: Permian Elevation: 3045 feet

### **Estimated Tops of Important Geological Markers:**

Formation	TVD (ft)	MD (ft)	Elevation Lithologies		Mineral Resources	Producing Formation?
Rustler	N/A	N/A	N/A	Anhydrite	Brine	No
Salado	326	356	2724	Salt/Anhydrite	Brine	No
Castile	850	880	2200	Salt/Anhydrite	Brine	No
Base of Salt (BX)	2128	2158	922	Anhydrite	Brine	No
Lamar	2373	2403	677	Sandstone/Shale	None	No
Bell Canyon	2458	2488	592	Sandstone	Oil	No
Cherry Canyon	3172	3202	-122	Sandstone	Oil	No
Brushy Canyon	4314	4344	-1264	Sandstone	Oil	No
Bone Spring Lime	5814	5844	-2764	Limestone	None	No
Upper Avalon Shale	5854	5884	-2804	Shale	Oil	Yes
1st Bone Spring Sand	6825	6855	-3775	Sandstone	Oil	Yes
2nd Bone Spring Carbonate	7125	7155	-4075	Limestone/Shale	None	No
2nd Bone Spring Sand	7570	7600	-4520	Sandstone	Oil	Yes
3rd Bone Spring Carbonate	7781	7811	-4731	Limestone	Oil	No
3rd Bone Spring Sand	8899	8929	-5849	Sandstone	Oil	Yes
Wolfcamp	9196	9226	-6146	Sandstone/Shale/Carbonates	Natural Gas / Oil	Yes
Wolfcamp X Sand	9225	9255	-6175	Sandstone/Shale/Carbonates	Natural Gas / Oil	Yes
Wolfcamp Y Sand	9290	9320	-6240	Sandstone/Shale/Carbonates	Natural Gas / Oil	Yes
Wolfcamp A	9340	9370	-6290	Sandstone/Shale/Carbonates	Natural Gas / Oil	Yes
Wolfcamp B	9551	9581	-6501	Sandstone/Shale/Carbonates	Natural Gas / Oil	Possible
Wolfcamp C	9794	9824	-6744	Sandstone/Shale/Carbonates	Natural Gas / Oil	Yes
Wolfcamp D	10067	10097	-7017	Sandstone/Shale/Carbonates	Natural Gas / Oil	Yes

### 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 Stacking before drilling 12.25" intermediate hole, 10,000psi for the BOP Stacking before drilling the 8.75" production hole. Testing will be conducted by an independent service company per Onshore Order 2 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 will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. 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 Onshore Order #2. 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 Onshore Oil and Gas Order #2 III.B.1.i. A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 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 3

### Section 3: CASING PROGRAM Weight (lbs/ft) Body SF Type Bottom Set MD Bottom Set TVD Bottom Set MSL Joint SF Type String Type Casing Size Collapse SF Joint Type Hole Size Top Set MD Top Set TVD Top Set MSL **Burst SF** Joint SF SF Grade Body Surface 17.5 13.375 480 0 450 3045 2595 54.5 J55 BTC 1.00 1.15 BUOY 1.30 BUOY 1.30 Intermediate BUOY 12.25 9.625 0 8888 0 2388 3045 657 40 P110HC BTC 1.00 1.15 BUOY 1.30 1.30 Production 0 19400 0 9489 3045 -6444 23 P110HC TLW 1.00 1.15 BUOY 1.30 BUOY 1.30 All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h Safety Factors will Meet or Exceed

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

Topered String.	Yes or No
Is casing new? If used, attach certification as required in Onshore Order #1.	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:	ection 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	180	97	2.12	12.5	205	25	Class C	Extender, Accelerator, LCM
Surface	Tail	180	480	197	1.32	14.8	260	25	Class C	Accelerator
Intermediate	Lead	0	8388	1520	2.18	12.4	3314	25	Class C	Extender, Accelerator, LCM
Intermediate	Tail	8388	8888	147	1.33	14.8	196	25	Class C	Retarder
Production	Tail	8588	19400	2073	1.68	13	3482	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	450	Water Based Mud	8.4	8.8
450	2418	Brine or Oil Based Mud	9.2	10.2
2418	19400	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:	6169 DCI
Anticipated Bottom Hole Pressure.	<b>6168</b> PSI
Anticipated Bottom Hole Temperature:	<b>195</b> °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 Onshore Order #6. 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.

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 397410

### **CONDITIONS**

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
990 Town & Country Blvd.	Action Number:
Houston, TX 77024	397410
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

### CONDITIONS

Created By	Condition	Condition Date
ward.rikala	All original COA's still apply.	11/3/2024