Form 3160-3 (June 2015)		FORM APPROVED OMB No. 1004-0137			
UNITED STA	ATES	Expires: January 31, 2018			
DEPARTMENT OF TI BUREAU OF LAND M		5. Lease Serial No.			
APPLICATION FOR PERMIT T		6. If Indian, Allotee or Tribe Name			
AFFLICATION FOR FLRMIT					
		7. If Unit or CA Agreement, Name and No.			
1a. Type of work: DRILL	REENTER	, if our of orregion on , tune and two			
1b. Type of Well: Oil Well Gas Well	Other	8. Lease Name and Well No.			
1c. Type of Completion: Hydraulic Fracturing	Single Zone Multiple Zone				
		[333888]			
2. Name of Operator [372098]		9. API Well No. 30-025-5126			
3a. Address	3b. Phone No. (include area code)	10. Field and Pool, or Exploratory			
4. Location of Well (Report location clearly and in accord	ance with any State requirements.*)	11. Sec., T. R. M. or Blk. and Survey or Area			
At surface					
At proposed prod. zone					
14. Distance in miles and direction from nearest town or po	st office*	12. County or Parish 13. State			
 15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 	16. No of acres in lease 17. Spa	cing.Unit dedicated to this well			
18. Distance from proposed location*	19. Proposed Depth 20, BL	M/BIA Bond No. in file			
to nearest well, drilling, completed, applied for, on this lease, ft.					
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration			
	24. Attachments				
The following, completed in accordance with the requireme (as applicable)	ents of Onshore Oil and Gas Order No. 1, and the	Hydraulic Fracturing rule per 43 CFR 3162.3-3			
 Well plat certified by a registered surveyor. A Drilling Plan. 	4. Bond to cover the operatility Item 20 above).	ons unless covered by an existing bond on file (se			
3. A Surface Use Plan (if the location is on National Forest SUPO must be filed with the appropriate Forest Service (System Lands, the 5. Operator certification.	formation and/or plans as may be requested by the			
25. Signature	Name (Printed/Typed)	Date			
Title		I			
Approved by (Signature)	Name (Printed/Typed)	Date			
Title	Office	I			
Application approval does not warrant or certify that the ap applicant to conduct operations thereon. Conditions of approval, if any, are attached.	plicant holds legal or equitable title to those righ	ts in the subject lease which would entitle the			
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 12 of the United States any false, fictitious or fraudulent statem					
NGMP Rec 03/31/2023		1			

SL

(Continued on page 2)





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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 Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

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

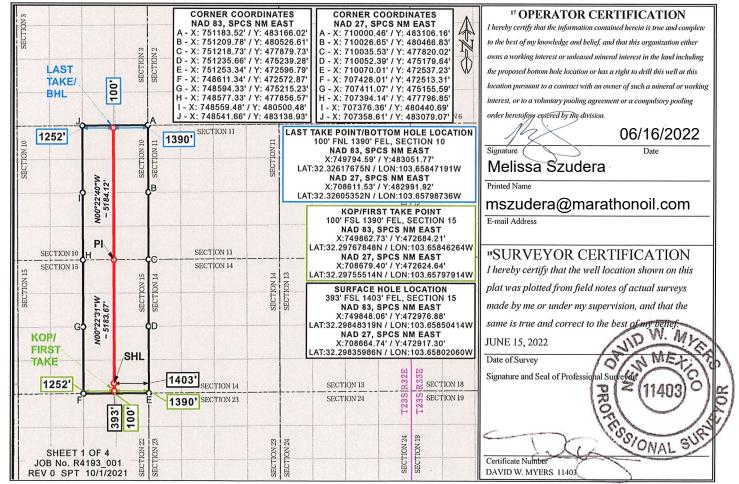
State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

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

AMENDED REPORT

			WELL	LUCA	101	N AND ACR	EAGE DEDIC	CATION PLA					
	PI Number 025-5	4000		² Poo	l Code			³ Pool Na	me				
30-	025-5	1266		17644 DIAMONDTAIL; BONE S					SPRIN	PRING			
⁴ Property C	ode					⁵ Property I	Name			6 1	⁶ Well Number		
333888				ING CI	LAV	VSBY 15-10	TB FEDERA	L COM			3Н		
⁷ OGRID N	⁷ OGRID No. ⁸ Operator Name ⁹ Elevation					⁹ Elevation							
372098 MARATHON OIL PERMIAN LLC 37					3709'								
						¹⁰ Surface I	Location						
UL or lot no.	Section	Townshi) Ra	ige Lo	ot Idn	Feet from the	North/South line	Feet from the	Eas	t/West line	County		
0	15	238	3 32E	/		393	SOUTH	1403	EAS	ST	LEA		
			11]	Bottom	Hol	le Location If	Different From	n Surface					
UL or lot no.	Section	Townshi	o Ra	ige Le	ot Idn	Feet from the	North/South line	Feet from the	Eas	t/West line	County		
В	10	238	32E			100	NORTH	1390	EAS	ST	LEA		
¹² Dedicated Acres	¹³ Joint of	r Infill	14 Consolidat	ion Code	¹⁵ Or	der No.							
640.0								2					

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.



Distances/areas relative to NAD 83 Combined Scale Factor: 0.99914426 Convergence Angle: 00°07'17.93119" Horizontal Spacing Unit State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: ____

MARATHON OIL PERMIAN, LLC. OGRID: 372098 Date: 06 / 20 / 2022

II. Type: \square Original \square Amendment due to \square 19.15.27.9.D(6)(a) NMAC \square 19.15.27.9.D(6)(b) NMAC \square Other. If Other, please describe:

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
30-025-51266	O-15-23S-32E	393 FSL 1403 FEL	2300	6400	8800
	O-15-23S-32E	393 FSL 1433 FEL	2575	7055	6175
	P-15-23S-32E	392 FSL 1313 FEL	2575	7055	6175
		30-025-51266 O-15-23S-32E O-15-23S-32E O-15-23S-32E	30-025-51266 O-15-23S-32E 393 FSL 1403 FEL O-15-23S-32E 393 FSL 1433 FEL P-15-23S-32E 392 FSL	30-025-51266 O-15-23S-32E 393 FSL 1403 FEL 2300 O-15-23S-32E 393 FSL 1433 FEL 2575 P-15-23S-32E 392 FSL 392 FSL 2575	30-025-51266 O-15-23S-32E 393 FSL 1403 FEL 2300 6400 O-15-23S-32E 393 FSL 1433 FEL 2575 7055 P-15-23S-32E 392 FSL 392 FSL 2575 7055

IV. Central Delivery Point Name:

BING CLAWSBY CTB

[See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
BING CLAWSBY 15-10 TB FEDERAL COM 3H	30-025-51266	6/22/2023	7/28/2023	1/17/2024	3/10/2024	3/10/2024
BING CLAWSBY 15-10 WA FEDERAL COM 2H		6/22/2023	9/1/2023	1/22/2024	3/10/2024	3/10/2024
BING CLAWSBY 15-10 WA FEDERAL COM 6H		6/22/2023	10/6/2023	1/28/2024	3/10/2024	3/10/2024

VI. Separation Equipment: 🛛 Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: \boxtimes Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: 🛛 Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

 \boxtimes Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. \Box Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system \Box will \Box will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator \Box does \Box does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

 \Box Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: \Box Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

 \boxtimes Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

 \Box Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. *If Operator checks this box, Operator will select one of the following:*

Well Shut-In. \Box Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. \Box Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

Signature:	12
Printed Name:	Melissa Szudera
Title:	Adv. Regulatory Compliance Representative
E-mail Address:	mszudera@marathonoil.com
Date:	6/20/2022
Phone:	713-296-3179
	OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:	
Title:	
Approval Date:	
Conditions of Approval:	

Page 6 of 27

APPENDIX

Section 1 - Parts VI, VII, and VIII

VI. Separation Equipment: 🛛 Attach a complete description of how Operator will size separation equipment to optimize gas capture.

- Separation equipment is sized to allow for retention time and velocity to adequately separate oil, gas, and water at anticipated peak rates.
- All central tank battery equipment is designed to efficiently capture the remaining gas from the liquid phase.
- Valves and meters are designed to service without flow interruption or venting of gas.

VII. Operational Practices: Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

- ♦ 19.15.27.8 (A) Venting and Flaring Of Natural Gas
 - Marathon Oil Permian's field operations are designed with the goal of minimizing flaring and preventing venting of natural gas. If capturing the gas is not possible then the gas is combusted/flared using properly sized flares or combustors in accordance with state air permit rules.
- 19.15.27.8 (B) Venting and Flaring During Drilling Operations
 - A properly-sized flare stack will be located at a minimum 100' from the nearest surface hole location on the pad.
 - All natural gas produced during drilling operations will be flared. Venting will only occur if there is an
 equipment malfunction and/or to avoid risk of an immediate and substantial adverse impact on safety,
 public health, or the environment.
- 19.15.27.8 (C) Venting and Flaring During Completion or Recompletion Operations
 - During all phases of flowback, wells will flow through a sand separator, or other appropriate flowback separation equipment, and the well stream will be directed to a central tank battery (CTB) through properly sized flowlines.
 - The CTB will have properly sized separation equipment for maximum anticipated flow rates.
 - Multiple stages of separation will be used to separate gas from liquids. All gas will be routed to a sales
 outlet. Fluids will be routed to tanks equipped with a closed loop system that will recover any residual
 gas from the tanks and route such gas to a sales outlet.
- ◆ 19.15.27.8 (D) Venting and Flaring During Production Operations
 - During production, the well stream will be routed to the CTB where multiple stages of separation will separate gas from liquids. All gas will be routed to a sales outlet. Fluids will be routed to tanks equipped with a closed loop system that will recover any residual gas from the tanks and route such gas to a sales outlet, minimizing tank emissions.
 - Flares are equipped with auto-ignition systems and continuous pilot operations.
 - Automatic gauging equipment is installed on all tanks.

• 19.15.27.8 (E) – Performance Standards

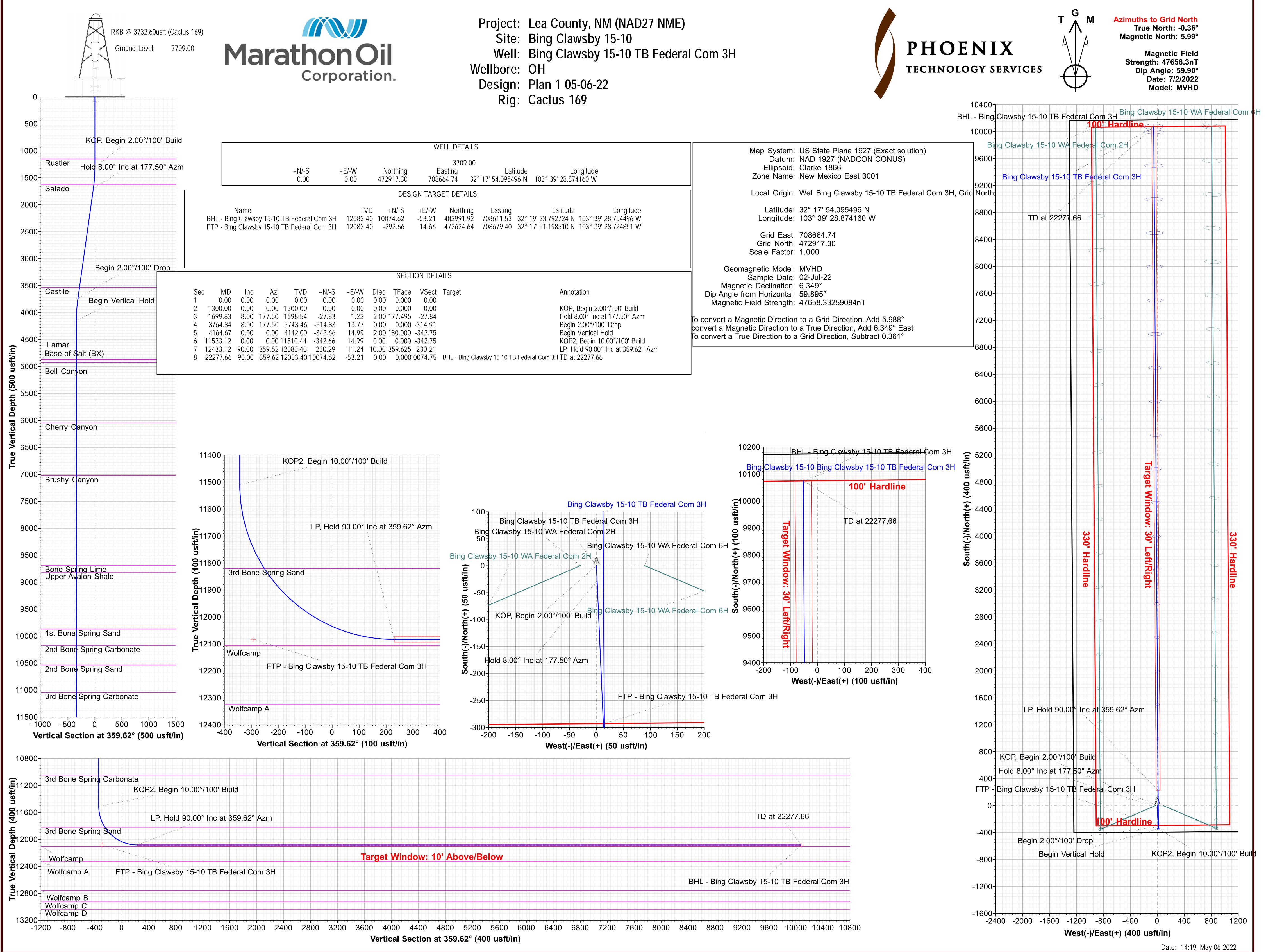
- Production equipment will be designed to handle maximum anticipated rates and pressure.
- Automatic gauging equipment is installed on all tanks to minimize venting.
- All flared gas will be combusted in a flare stack that is properly sized and designed to ensure proper combustion.
- Flares are equipped with continuous pilots and auto-ignitors along with remote monitoring of the pilot status.
- Weekly AVOs and monthly LDAR inspections will be performed on all wells and facilities that produce more than 60 MCFD.
- Gas/H2S detectors will be installed throughout the facilities and wellheads to detect leaks and enable timely repairs.

▶ 19.15.27.8 (F) – Measurement or Estimation of Vented and Flared Natural Gas

- All high pressure flared gas is measured by equipment conforming to API 14.10.
- No meter bypasses are installed.
- When metering is not practical due to low pressure/low rate, the vented or flared volume will be estimated through flare flow curves with the assistance of air emissions consultants, as necessary.

VIII. Best Management Practices: 🛛 Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

- Marathon Oil Permian will use best management practices to vent as minimally as possible during well intervention operations and downhole well maintenance.
- All natural gas is routed into the gas gathering system and directed to one of Marathon Oil Permian's multiple gas sales outlets.
- All venting events will be recorded and all start-up, shutdown, maintenance logs will be kept for control equipment.
- All control equipment will be maintained to provide highest run-time possible.
- All procedures are drafted to keep venting and flaring to the absolute minimum.



			W	ELL DETAILS					
	+E/-W 0.00	Northing 472917.30		3709.00 asting 664.74 32°	Latit 2 17' 54.09549	tude 96 N 103° 39	Longitud 9' 28.874160 V		
		DESIC	GN TARC	ET DETAILS					
Com 3H Com 3H		10074.62	+E/-W -53.21 14.66	Northing 482991.92 472624.64		32° 19' 33.79		Longitude 39' 28.754496 W 39' 28.724851 W	
		SECTI	ON DETA	AILS					
+N/-S 0.00		Dleg TFace 0.00 0.000	VSect 0.00	Target			Annotation		
0.00 -27.83	0.00	0.00 0.000 2.00 177.495	0.00 -27.84				0	2.00°/100' Build nc at 177.50° Azm	
-21.03	Ⅰ.∠∠	2.00 1/7.490	-Z1.04					IC ALT / JOU AZIII	

0.00	0.00	0.00 0.000 0.00	KOP, Begin 2.00°/100' Build
-27.83	1.22	2.00 177.495 -27.84	Hold 8.00° Inc at 177.50° Azm
314.83	13.77	0.00 0.000 -314.91	Begin 2.00°/100' Drop
342.66	14.99	2.00 180.000 -342.75	Begin Vertical Hold
342.66	14.99	0.00 0.000 -342.75	KOP2, Begin 10.00°/100' Build
230.29	11.24	10.00 359.625 230.21	LP, Hold 90.00° Inc at 359.62° Az
074.62	-53.21	0.00 0.00010074.75	BHL - Bing Clawsby 15-10 TB Federal Com 3H TD at 22277.66





Marathon Oil Permian LLC

Lea County, NM (NAD27 NME) Bing Clawsby 15-10 Bing Clawsby 15-10 TB Federal Com 3H

OH

Plan: Plan 1 05-06-22

Standard Planning Report

06 May, 2022



Received by OCD: 3/31/2023 10:30:47 AM

PHOENIX TECHNOLOGY SERVICES		3 10:30:47			Planning R	eport			MarathonOil Corporation.		
Database: Company: Project: Site: Well: Wellbore: Design:	Marat Lea C Bing (Bing (OH	Compass hon Oil Perm county, NM (N Clawsby 15-1 Clawsby 15-1 I 05-06-22	IAD27 NME) 0		TVD Ref MD Refe North Re			RKB @ 3732	2.60usft (Cactus 2.60usft (Cactus		
Project	Lea Co	ounty, NM (N	AD27 NME)								
Map System: Geo Datum: Map Zone:	NAD 19	e Plane 1927 27 (NADCON exico East 300	I CONUS)	tion)	System D	atum:	Ν	/lean Sea Leve	el		
Site	Bing C	lawsby 15-10)								
Site Position: From: Position Uncerta	Map inty:		East	hing: ing: Radius:	-	917.30 usft 634.73 usft 13-3/16 "				2° 17' 54.097368 N 3° 39' 29.223684 W 0.361 °	
Well	Bing Cl	awsby 15-10	TB Federal	Com 3H							
Well Position	+N/-S +E/-W	30.0	0 usft E	orthing: asting:		472,917.3 708,664.7	4 usft Lo	atitude: ongitude:		2° 17' 54.095496 N 3° 39' 28.874160 W	
Position Uncerta	inty	1.0	0 usft V	Vellhead Ele	vation:		G	round Level:		3,709.00 usft	
Wellbore	OH										
Magnetics	Мос	del Name	Samp	le Date	Declina (°)			Angle (°)	Field S ^e (n		
		MVHD		7/2/2022		6.349		59.895	47,658	3.33259084	
Design	Plan 1	05-06-22									
Audit Notes:											
Version:			Pha		PLAN		ie On Depth:		0.00		
Vertical Section:		De	epth From (` (usft)	TVD)	+N/-S (usft)		E/-W usft)	Di	rection (°)		
			0.00		0.00		0.00	3	359.62		
Plan Survey Too Depth From (usft)	-	n To	5/6/2022 / (Wellbore)		Tool Name		Remarks				
1 0.00	•	7.66 Plan 1			MWD+HRG	M	Nemarks				
	,_,			,	OWSG MWI						
Plan Sections											
Measured Depth Incl (usft)	lination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000		
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00					
1,699.83 3,764.84	8.00 8.00	177.50 177.50	1,698.54 3,743.46	-27.83 -314.83	1.22 13.77	2.00 0.00	0.00	0.00	0.000		
4 164 67	0 00	0 00	4 142 00	-342.66	14 00	2.00	<u>-20(</u>	n n n n n n n n n n n n n n n n n n n	180 000		

5/6/2022 2:13:22PM

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11,533.12

12,433.12

22,277.66

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14.99

11.24

-53.21

-342.66

-342.66

230.29

10,074.62

-2.00

0.00

10.00

0.00

2.00

0.00

10.00

0.00

0.000 BHL - Bing Clawsby

180.000

359.625

0.000

0.00

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0.00

0.00

90.00

90.00

0.00

0.00

359.62

359.62

4,142.00

11,510.44

12,083.40

12,083.40



Planning Report

Page 12 of 27 MarathonOil Corporation.

Database:	USA Compass	Local Co-ordinate Reference:	Well Bing Clawsby 15-10 TB Federal Com 3H
Company:	Marathon Oil Permian LLC	TVD Reference:	RKB @ 3732.60usft (Cactus 169)
Project:	Lea County, NM (NAD27 NME)	MD Reference:	RKB @ 3732.60usft (Cactus 169)
Site:	Bing Clawsby 15-10	North Reference:	Grid
Well:	Bing Clawsby 15-10 TB Federal Com 3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ОН	-	
Design:	Plan 1 05-06-22		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00 1,151.40	0.00 0.00	0.00 0.00	0.00 1,151.40	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
Rustler 1,300.00	0.00 n 2.00°/100' B u	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00 1,500.00	2.00 4.00	177.50 177.50	1,399.98 1,499.84	-1.74 -6.97	0.08 0.30	-1.74 -6.97	2.00 2.00	2.00 2.00	0.00 0.00
1,600.00 1,627.11	6.00 6.54	177.50 177.50	1,599.45 1,626.40	-15.68 -18.64	0.69 0.82	-15.68 -18.64	2.00 2.00	2.00 2.00	0.00 0.00
Salado 1,699.83	8.00	177.50	1,698.54	-27.83	1.22	-27.84	2.00	2.00	0.00
Hold 8.00° 1,700.00 1,800.00	Inc at 177.50° 8.00 8.00	Azm 177.50 177.50	1,698.70 1,797.73	-27.85 -41.75	1.22 1.83	-27.86 -41.76	0.00 0.00	0.00 0.00	0.00 0.00
1,900.00 2,000.00 2,100.00 2,200.00 2,300.00	8.00 8.00 8.00 8.00 8.00 8.00	177.50 177.50 177.50 177.50 177.50 177.50	1,896.76 1,995.78 2,094.81 2,193.84 2,292.87	-55.65 -69.55 -83.45 -97.34 -111.24	2.43 3.04 3.65 4.26 4.87	-55.66 -69.57 -83.47 -97.37 -111.27	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
2,400.00 2,500.00 2,600.00 2,700.00 2,800.00	8.00 8.00 8.00 8.00 8.00	177.50 177.50 177.50 177.50 177.50	2,391.89 2,490.92 2,589.95 2,688.98 2,788.01	-125.14 -139.04 -152.94 -166.84 -180.73	5.47 6.08 6.69 7.30 7.91	-125.17 -139.08 -152.98 -166.88 -180.78	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
2,900.00 3,000.00 3,100.00 3,200.00 3,300.00	8.00 8.00 8.00 8.00 8.00	177.50 177.50 177.50 177.50 177.50	2,887.03 2,986.06 3,085.09 3,184.12 3,283.14	-194.63 -208.53 -222.43 -236.33 -250.23	8.51 9.12 9.73 10.34 10.95	-194.68 -208.59 -222.49 -236.39 -250.29	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
3,400.00 3,500.00 3,553.72	8.00 8.00 8.00	177.50 177.50 177.50	3,382.17 3,481.20 3,534.40	-264.12 -278.02 -285.49	11.55 12.16 12.49	-264.19 -278.10 -285.56	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
Castile	0100		0,000	200110		200100	0.00	0.00	0.00
3,600.00 3,700.00	8.00 8.00	177.50 177.50	3,580.23 3,679.25	-291.92 -305.82	12.77 13.38	-292.00 -305.90	0.00 0.00	0.00 0.00	0.00 0.00
3,764.84	8.00	177.50	3,743.46	-314.83	13.77	-314.91	0.00	0.00	0.00
3,800.00 3,900.00 4,000.00 4,100.00	° /100' Drop 7.29 5.29 3.29 1.29	177.50 177.50 177.50 177.50	3,778.31 3,877.70 3,977.42 4,077.33	-319.50 -330.45 -337.93 -341.93	13.98 14.46 14.78 14.96	-319.59 -330.54 -338.02 -342.02	2.00 2.00 2.00 2.00	-2.00 -2.00 -2.00 -2.00	0.00 0.00 0.00 0.00
4,164.67	0.00	0.00	4,142.00	-342.66	14.99	-342.75	2.00	-2.00	-274.45
Begin Vert 4,895.07	0.00	0.00	4,872.40	-342.66	14.99	-342.75	0.00	0.00	0.00
Base of Sa 4,947.07 Bell Canyo	l t (BX) - Lama 0.00 on	r 0.00	4,924.40	-342.66	14.99	-342.75	0.00	0.00	0.00
6,070.07 Cherry Ca	0.00 nyon	0.00	6,047.40	-342.66	14.99	-342.75	0.00	0.00	0.00
7,047.07 Brushy Ca	0.00 nyon	0.00	7,024.40	-342.66	14.99	-342.75	0.00	0.00	0.00
8,710.07	0.00	0.00	8,687.40	-342.66	14.99	-342.75	0.00	0.00	0.00

COMPASS 5000.15 Build 93A

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Planning Report

Page 13 of 27 MarathonOil Corporation.

Database:	USA Compass	Local Co-ordinate Reference:	Well Bing Clawsby 15-10 TB Federal Com 3H
Company:	Marathon Oil Permian LLC	TVD Reference:	RKB @ 3732.60usft (Cactus 169)
Project:	Lea County, NM (NAD27 NME)	MD Reference:	RKB @ 3732.60usft (Cactus 169)
Site:	Bing Clawsby 15-10	North Reference:	Grid
Well:	Bing Clawsby 15-10 TB Federal Com 3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH	-	
Design:	Plan 1 05-06-22		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
Bone Sprin									
8,840.07	0.00	0.00	8,817.40	-342.66	14.99	-342.75	0.00	0.00	0.00
Upper Ava		0.00	0.070.40	0.40.00	44.00	040 75	0.00	0.00	0.00
9,893.07	0.00	0.00	9,870.40	-342.66	14.99	-342.75	0.00	0.00	0.00
10,195.07	Spring Sand 0.00	0.00	10,172.40	-342.66	14.99	-342.75	0.00	0.00	0.00
,	Spring Carbon		10,172.40	042.00	14.00	042.10	0.00	0.00	0.00
10,560.07	0.00	0.00	10,537.40	-342.66	14.99	-342.75	0.00	0.00	0.00
2nd Bone	Spring Sand								
11,068.07	0.00	0.00	11,045.40	-342.66	14.99	-342.75	0.00	0.00	0.00
,	Spring Carbon		,						
11,533.12	0.00	0.00	11,510.44	-342.66	14.99	-342.75	0.00	0.00	0.00
	jin 10.00°/100'								
11,600.00 11,700.00	6.69 16.69	359.62 359.62	11,577.18 11,674.98	-338.76 -318.53	14.96 14.83	-338.85 -318.62	10.00 10.00	10.00 10.00	0.00 0.00
11,700.00	26.69	359.62 359.62	11,674.98	-318.53	14.83	-318.62	10.00	10.00	0.00
11,860.62	32.75	359.62	11,820.40	-251.58	14.39	-251.67	10.00	10.00	0.00
-	32.75 Spring Sand	559.62	11,020.40	-201.00	14.59	-201.07	10.00	10.00	0.00
11,900.00	36.69	359.62	11,852.76	-229.16	14.25	-229.25	10.00	10.00	0.00
12,000.00	46.69	359.62	11,927.35	-162.74	13.81	-162.82	10.00	10.00	0.00
12,100.00	56.69	359.62	11,989.26	-84.37	13.30	-84.46	10.00	10.00	0.00
12,200.00	66.69	359.62	12,036.63	3.55	12.72	3.47	10.00	10.00	0.00
12,300.00	76.69	359.62	12,068.01	98.37	12.10	98.28	10.00	10.00	0.00
12,400.00 12,433.12	86.69 90.00	359.62 359.62	12,082.44 12,083.40	197.19 230.29	11.46 11.24	197.11 230.21	10.00 10.00	10.00 10.00	0.00 0.00
,	0.00° Inc at 359		12,003.40	230.29	11.24	230.21	10.00	10.00	0.00
12,500.00	90.00	359.62	12,083.40	297.17	10.80	297.09	0.00	0.00	0.00
12,600.00	90.00	359.62	12,083.40	397.17	10.15	397.09	0.00	0.00	0.00
12,700.00	90.00	359.62	12,083.40	497.16	9.49	497.09	0.00	0.00	0.00
12,800.00	90.00	359.62	12,083.40	597.16	8.84	597.09	0.00	0.00	0.00
12,900.00	90.00	359.62	12,083.40	697.16	8.18	697.09	0.00	0.00	0.00
13,000.00 13,100.00	90.00 90.00	359.62 359.62	12,083.40 12,083.40	797.16 897.16	7.53 6.87	797.09 897.09	0.00 0.00	0.00 0.00	0.00 0.00
13,200.00 13,300.00	90.00 90.00	359.62 359.62	12,083.40 12.083.40	997.15 1,097.15	6.22 5.56	997.09 1,097.09	0.00 0.00	0.00 0.00	0.00 0.00
13,400.00	90.00	359.62	12,083.40	1,197.15	4.91	1,197.09	0.00	0.00	0.00
13,500.00	90.00	359.62	12,083.40	1,297.15	4.25	1,297.09	0.00	0.00	0.00
13,600.00	90.00	359.62	12,083.40	1,397.14	3.60	1,397.09	0.00	0.00	0.00
13,700.00	90.00	359.62	12,083.40	1,497.14	2.95	1,497.09	0.00	0.00	0.00
13,800.00	90.00	359.62	12,083.40	1,597.14	2.29	1,597.09	0.00	0.00	0.00
13,900.00 14,000.00	90.00 90.00	359.62 359.62	12,083.40 12,083.40	1,697.14 1,797.14	1.64 0.98	1,697.09 1,797.09	0.00 0.00	0.00 0.00	0.00 0.00
14,100.00	90.00	359.62	12,083.40	1,897.13	0.33	1,897.09	0.00	0.00	0.00
14,200.00	90.00	359.62	12,083.40	1,997.13	-0.33	1,997.09	0.00	0.00	0.00
14,300.00	90.00	359.62	12,083.40	2,097.13	-0.98	2,097.09	0.00	0.00	0.00
14,400.00	90.00	359.62	12,083.40	2,197.13	-1.64	2,197.09	0.00	0.00	0.00
14,500.00	90.00	359.62	12,083.40	2,297.13	-2.29	2,297.09	0.00	0.00	0.00
14,600.00	90.00	359.62	12,083.40	2,397.12	-2.95	2,397.09	0.00	0.00	0.00
14,700.00	90.00	359.62	12,083.40	2,497.12	-3.60	2,497.09	0.00	0.00	0.00
14,800.00 14,900.00	90.00 90.00	359.62 359.62	12,083.40 12.083.40	2,597.12 2.697.12	-4.26 -4.91	2,597.09 2,697.09	0.00 0.00	0.00 0.00	0.00 0.00
15,000.00	90.00	359.62	12,083.40	2,797.11	-4.91	2,797.09	0.00	0.00	0.00
15,100.00	90.00	359.62	12,083.40	2,897.11	-6.22	2,897.09	0.00	0.00	0.00

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Planning Report

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USA Compass Local Co-ordinate Reference: Well Bing Clawsby 15-10 TB Federal Com 3H Database: Marathon Oil Permian LLC Company: **TVD Reference:** RKB @ 3732.60usft (Cactus 169) Project: Lea County, NM (NAD27 NME) MD Reference: RKB @ 3732.60usft (Cactus 169) Site: Bing Clawsby 15-10 North Reference: Grid Bing Clawsby 15-10 TB Federal Com 3H Minimum Curvature Well: Survey Calculation Method: Wellbore: OH Design: Plan 1 05-06-22

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
15,200.00	90.00	359.62	12,083.40	2,997.11	-6.87	2,997.09	0.00	0.00	0.00
15,300.00 15.400.00	90.00 90.00	359.62 359.62	12,083.40 12,083.40	3,097.11 3,197.11	-7.53 -8.18	3,097.09 3.197.09	0.00 0.00	0.00 0.00	0.00 0.00
15,500.00	90.00	359.62	12,083.40	3,297.10	-8.84	3,297.09	0.00	0.00	0.00
15,600.00	90.00	359.62	12,083.40	3,397.10	-9.49	3,397.09	0.00	0.00	0.00
15,700.00	90.00	359.62	12,083.40	3,497.10	-10.15	3,497.09	0.00	0.00	0.00
15,800.00 15,900.00	90.00 90.00	359.62 359.62	12,083.40 12.083.40	3,597.10 3,697.10	-10.80 -11.46	3,597.09 3,697.09	0.00 0.00	0.00 0.00	0.00 0.00
16,000.00	90.00	359.62	12,083.40	3,797.09	-12.11	3,797.09	0.00	0.00	0.00
16,100.00	90.00	359.62	12,083.40	3,897.09	-12.77	3,897.09	0.00	0.00	0.00
16,200.00	90.00	359.62	12,083.40	3,997.09	-13.42	3,997.09	0.00	0.00	0.00
16,300.00 16,400.00	90.00 90.00	359.62 359.62	12,083.40 12,083.40	4,097.09 4,197.08	-14.07 -14.73	4,097.09 4,197.09	0.00 0.00	0.00 0.00	0.00 0.00
16,500.00	90.00	359.62	12,083.40	4,297.08	-15.38	4,297.09	0.00	0.00	0.00
16,600.00	90.00	359.62	12,083.40	4,397.08	-16.04	4,397.09	0.00	0.00	0.00
16,700.00	90.00	359.62	12,083.40	4,497.08	-16.69	4,497.09	0.00	0.00	0.00
16,800.00 16,900.00	90.00 90.00	359.62 359.62	12,083.40 12,083.40	4,597.08 4,697.07	-17.35 -18.00	4,597.09 4,697.09	0.00 0.00	0.00 0.00	0.00 0.00
17,000.00	90.00	359.62	12,083.40	4,797.07	-18.66	4,797.09	0.00	0.00	0.00
17,100.00	90.00	359.62	12,083.40	4,897.07	-19.31	4,897.09	0.00	0.00	0.00
17,200.00	90.00	359.62	12,083.40	4,997.07	-19.97	4,997.09	0.00	0.00	0.00
17,300.00	90.00	359.62	12,083.40	5,097.07	-20.62	5,097.09 5.197.09	0.00 0.00	0.00	0.00
17,400.00 17,500.00	90.00 90.00	359.62 359.62	12,083.40 12,083.40	5,197.06 5,297.06	-21.28 -21.93	5,197.09	0.00	0.00 0.00	0.00 0.00
17,600.00	90.00	359.62	12,083.40	5,397.06	-22.59	5,397.09	0.00	0.00	0.00
17,700.00	90.00	359.62	12,083.40	5,497.06	-23.24	5,497.09	0.00	0.00	0.00
17,800.00 17,900.00	90.00 90.00	359.62 359.62	12,083.40 12,083.40	5,597.06 5,697.05	-23.89 -24.55	5,597.09 5,697.09	0.00 0.00	0.00 0.00	0.00 0.00
18,000.00	90.00	359.62	12,083.40	5,797.05	-24.33	5,797.09	0.00	0.00	0.00
18,100.00	90.00	359.62	12,083.40	5,897.05	-25.86	5,897.09	0.00	0.00	0.00
18,200.00	90.00	359.62	12,083.40	5,997.05	-26.51	5,997.09	0.00	0.00	0.00
18,300.00 18,400.00	90.00 90.00	359.62 359.62	12,083.40 12,083.40	6,097.04 6,197.04	-27.17 -27.82	6,097.09 6,197.09	0.00 0.00	0.00 0.00	0.00 0.00
18,500.00	90.00	359.62	12,083.40	6,297.04	-28.48	6,297.09	0.00	0.00	0.00
18,600.00	90.00	359.62	12,083.40	6,397.04	-29.13	6,397.09	0.00	0.00	0.00
18,700.00	90.00	359.62	12,083.40	6,497.04	-29.79	6,497.09	0.00	0.00	0.00
18,800.00 18,900.00	90.00 90.00	359.62 359.62	12,083.40 12,083.40	6,597.03 6,697.03	-30.44 -31.10	6,597.09 6,697.09	0.00 0.00	0.00 0.00	0.00 0.00
19,000.00	90.00	359.62	12,083.40	6,797.03	-31.75	6,797.09	0.00	0.00	0.00
19,100.00	90.00	359.62	12,083.40	6,897.03	-32.40	6,897.09	0.00	0.00	0.00
19,200.00	90.00	359.62	12,083.40	6,997.03	-33.06	6,997.09	0.00	0.00	0.00
19,300.00 19,400.00	90.00 90.00	359.62 359.62	12,083.40 12,083.40	7,097.02 7,197.02	-33.71 -34.37	7,097.09 7,197.09	0.00 0.00	0.00 0.00	0.00 0.00
19,500.00	90.00	359.62	12,083.40	7,297.02	-35.02	7,297.09	0.00	0.00	0.00
19,600.00	90.00	359.62	12,083.40	7,397.02	-35.68	7,397.09	0.00	0.00	0.00
19,700.00	90.00	359.62	12,083.40	7,497.01	-36.33	7,497.09	0.00	0.00	0.00
19,800.00 19,900.00	90.00 90.00	359.62 359.62	12,083.40 12,083.40	7,597.01 7,697.01	-36.99 -37.64	7,597.09 7,697.09	0.00 0.00	0.00 0.00	0.00 0.00
20,000.00	90.00	359.62	12,083.40	7,797.01	-38.30	7,797.09	0.00	0.00	0.00
20,100.00	90.00	359.62	12,083.40	7,897.01	-38.95	7,897.09	0.00	0.00	0.00
20,200.00	90.00	359.62	12,083.40	7,997.00	-39.61	7,997.09	0.00	0.00	0.00
20,300.00 20,400.00	90.00 90.00	359.62 359.62	12,083.40 12.083.40	8,097.00 8,197.00	-40.26 -40.92	8,097.09 8.197.09	0.00 0.00	0.00 0.00	0.00 0.00
20,400.00	90.00	359.62	12,083.40	8,197.00	-40.92 -41.57	8,297.09	0.00	0.00	0.00
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Planning Report



USA Compass Local Co-ordinate Reference: Well Bing Clawsby 15-10 TB Federal Com 3H Database: Marathon Oil Permian LLC Company: **TVD Reference:** RKB @ 3732.60usft (Cactus 169) Project: Lea County, NM (NAD27 NME) MD Reference: RKB @ 3732.60usft (Cactus 169) Bing Clawsby 15-10 Site: North Reference: Grid Bing Clawsby 15-10 TB Federal Com 3H Minimum Curvature Well: Survey Calculation Method: Wellbore: OH Design: Plan 1 05-06-22

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
20,600.00	90.00	359.62	12,083.40	8,397.00	-42.22	8,397.09	0.00	0.00	0.00
20,700.00 20,800.00 20,900.00 21,000.00 21,100.00	90.00 90.00 90.00 90.00 90.00	359.62 359.62 359.62 359.62 359.62 359.62	12,083.40 12,083.40 12,083.40 12,083.40 12,083.40	8,496.99 8,596.99 8,696.99 8,796.99 8,896.98	-42.88 -43.53 -44.19 -44.84 -45.50	8,497.09 8,597.09 8,697.09 8,797.09 8,897.09	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
21,200.00 21,300.00 21,400.00 21,500.00 21,600.00	90.00 90.00 90.00 90.00 90.00	359.62 359.62 359.62 359.62 359.62	12,083.40 12,083.40 12,083.40 12,083.40 12,083.40	8,996.98 9,096.98 9,196.98 9,296.98 9,396.97	-46.15 -46.81 -47.46 -48.12 -48.77	8,997.09 9,097.09 9,197.09 9,297.09 9,397.09	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
21,700.00 21,800.00 21,900.00 22,000.00 22,100.00	90.00 90.00 90.00 90.00 90.00	359.62 359.62 359.62 359.62 359.62	12,083.40 12,083.40 12,083.40 12,083.40 12,083.40	9,496.97 9,596.97 9,696.97 9,796.97 9,896.96	-49.43 -50.08 -50.73 -51.39 -52.04	9,497.09 9,597.09 9,697.09 9,797.09 9,897.09	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
22,200.00 22,277.66 TD at 2227	90.00 90.00	359.62 359.62	12,083.40 12,083.40	9,996.96 10,074.62	-52.70 -53.21	9,997.09 10,074.75	0.00 0.00	0.00 0.00	0.00 0.00

Design Targets

Target Name - hit/miss target _ [- Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP - Bing Clawsby 1 - plan misses target - Point	0.00 t center by		12,083.40 at 12000.0	-292.66 Ousft MD (11	14.66 927.35 TVD,	472,624.64 -162.74 N, 13.81		17' 51.198511	N 3° 39' 28.724851 W
BHL - Bing Clawsby 1 - plan hits target ce	0.00 nter	359.62	12,083.40	10,074.62	-53.21	482,991.92	708,611.5332°	19' 33.792724	N 3° 39' 28.754496 W

- Rectangle (sides W60.00 H9,844.54 D20.00)

Casing Points

easured Depth (usft)	Vertical Depth (usft)		Name	Casing Diameter (")	Hole Diameter (")
22,278.08	12,083.40	20" Casing		20	24

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Planning Report

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USA Compass Local Co-ordinate Reference: Well Bing Clawsby 15-10 TB Federal Com 3H Database: Marathon Oil Permian LLC Company: **TVD Reference:** RKB @ 3732.60usft (Cactus 169) Project: Lea County, NM (NAD27 NME) MD Reference: RKB @ 3732.60usft (Cactus 169) Bing Clawsby 15-10 Site: North Reference: Grid Bing Clawsby 15-10 TB Federal Com 3H Minimum Curvature Well: Survey Calculation Method: Wellbore: OH Design: Plan 1 05-06-22

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,151.40	1,151.40	Rustler			
1,627.11	1,626.40	Salado			
3,553.72	3,534.40	Castile			
4,895.07	4,872.40	Base of Salt (BX)			
4,895.07	4,872.40	Lamar			
4,947.07	4,924.40	Bell Canyon			
6,070.07	6,047.40	Cherry Canyon			
7,047.07	7,024.40	Brushy Canyon			
8,710.07	8,687.40	Bone Spring Lime			
8,840.07	8,817.40	Upper Avalon Shale			
9,893.07	9,870.40	1st Bone Spring Sand			
10,195.07	10,172.40	2nd Bone Spring Carbonate			
10,560.07	10,537.40	2nd Bone Spring Sand			
11,068.07	11,045.40	3rd Bone Spring Carbonate			
11,860.62	11,820.40	3rd Bone Spring Sand			

Plan Annotations

Measured	Vertical	Local Coor	dinates	
Depth (usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
1,300.00	1,300.00	0.00	0.00	KOP, Begin 2.00°/100' Build
1,699.83	1,698.54	-27.83	1.22	Hold 8.00° Inc at 177.50° Azm
3,764.84	3,743.46	-314.83	13.77	Begin 2.00°/100' Drop
4,164.67	4,142.00	-342.66	14.99	Begin Vertical Hold
11,533.12	11,510.44	-342.66	14.99	KOP2, Begin 10.00°/100' Build
12,433.12	12,083.40	230.29	11.24	LP, Hold 90.00° Inc at 359.62° Azm
22,277.66	12,083.40	10,074.62	-53.21	TD at 22277.66

Marathon Oil

MARATHON OIL PERMIAN, LLC. DRILLING AND OPERATIONS PLAN

WELL NAME & NUMBER:		BING CLA	WSBY 15-10	TB FED	ERAL COM 3H	
LOCATION:	SECTION	15	TOWNSHIP	23S	RANGE	32E
		LEA	COUNTY,		NEW MEXICO	

Section 1:

GEOLOGICAL FORMATIONS

Name of Surface Formation: Elevation: Permian 3709 *feet*

Estimated Tops of Important Geological Markers:

Formation	TVD (ft)	MD (ft)	Elevation (ft SS)	Lithologies	Mineral Resources	Producing Formation?
Rustler	1191	1191	2518	Anhydrite	Brine	No
Salado	1666	1666	2043	Salt/Anhydrite	Brine	No
Castile	3574	3574	135	Salt/Anhydrite	Brine	No
Base of Salt (BX)	4912	4912	-1203	Salt/Anhydrite	Brine	No
Lamar	4912	4912	-1203	Sandstone/Shale	None	No
Bell Canyon	4964	4964	-1255	Sandstone	Oil	No
Cherry Canyon	6087	6087	-2378	Sandstone	Oil	No
Brushy Canyon	7064	7064	-3355	Sandstone	Oil	No
Bone Spring Lime	8727	8727	-5018	Limestone	None	No
Upper Avalon Shale	8857	8857	-5148	Shale	Oil	Yes
1st Bone Spring Sand	9910	9990	-6201	Sandstone	Oil	Yes
2nd Bone Spring Carbonate	10212	10292	-6503	Limestone/Shale	None	No
2nd Bone Spring Sand	10577	10657	-6868	Sandstone	Oil	Yes
3rd Bone Spring Carbonate	11085	11165	-7376	Limestone	Oil	No
3rd Bone Spring Sand	11860	11940	-8151	Sandstone	Oil	Yes
Wolfcamp	12146	12226	-8437	Sandstone/Shale/Carbonates	Natural Gas / Oil	Yes
Wolfcamp A	12365	12445	-8656	Sandstone/Shale/Carbonates	Natural Gas / Oil	Yes
Wolfcamp B	12801	12881	-9092	Sandstone/Shale/Carbonates	Natural Gas / Oil	No
Wolfcamp C	12967	13047	-9258	Sandstone/Shale/Carbonates	Natural Gas / Oil	No
Wolfcamp D	13078	13158	-9369	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 50% WP for the Annular and 10,000 psi for the BOP Stacking. 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.

Drilling & Operations Plan - Page 2 of 3

Marathon Oil Permian LLC.	
Section 3:	

CASING PROGRAM

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 (Ibs/ft)	Grade	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
Surface	17.5	13.375	0	1216	0	1216	3709	2493	54.5	J55	BTC	5.22	1.81	BUOY	4.52	BUOY	4.52
Intermediate	12.25	9.625	0	11433	0	11410	3709	-7701	40	P110HC	BTC	1.20	1.42	BUOY	2.44	BUOY	2.44
Production	8.75	5.5	0	22277	0	12083	3709	-8374	23	P110HC	TLW	2.53	1.26	BUOY	2.22	BUOY	2.22
	All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h								Safety	Factors wi	ll Meet or	Exceed					

 Casing Condition:
 New

 Casing Standard:
 API

 Tapered String?
 No

	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:						CEME	NT PROG	RAM		
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	916	398	2.12	12.5	844	25	Class C	Extender,Accelerator,LCM
Surface	Tail	916	1216	197	1.32	14.8	260	25	Class C	Accelerator
Intermediate	Lead	0	10933	1998	2.18	12.4	4355	25	Class C	Extender,Accelerator,LCM
Intermediate	Tail	10933	11433	147	1.33	14.8	196	25	Class C	Retarder
Production	Tail	11133	22277	2135	1.68	13	3587	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? Pilot Hole Depth: KOP Depth:		No N/A N/A		Plugging I	Procedure for Pilot	Hole: N/A	
Plug Top	Plug Bottom	Excess (%)	Quantity (sx)	Density (ppg)	Yield (ft3/sks)	Water gal/sk	Slurry Description and Cement Type

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Marathon Oil Permian LLC.
Section 5:

CIRCULATING MEDIUM

Mud System Type: Will an air or gas system be used? Closed 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	1216	Water Based Mud	8.4	8.8
1216	11433	Brine or Oil Based Mud	9.2	10.2
11433	22277	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:	7854 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 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.

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Marathon
LEASE NO.:	NMNM84728
LOCATION:	Section 15, T.23 S., R.32 E., NMPM
COUNTY:	Lea County, New Mexico

WELL NAME & NO.:	Bing Clawsby 15-10 TB Fed Com 3H
SURFACE HOLE FOOTAGE:	393'/S & 1403'/E
BOTTOM HOLE FOOTAGE	100'/N & 1390'/E

COA

H2S	C Yes	💽 No	
Potash	None	C Secretary	C R-111-P
Cave/Karst Potential	• Low	C Medium	C High
Cave/Karst Potential	Critical		
Variance	C None	• Flex Hose	C Other
Wellhead	Conventional	Multibowl	C Both
Other	□4 String Area	Capitan Reef	□ WIPP
Other	Fluid Filled	Cement Squeeze	Pilot Hole
Special Requirements	□ Water Disposal	COM	🗖 Unit

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 shall meet Onshore Order 6 requirements, 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 **1216** feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite and above the salt) 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 $\underline{8}$

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.

Intermediate casing must be kept 50% fluid filled to meet BLM minimum collapse requirement.

- 2. The minimum required fill of cement behind the **9-5/8** 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 shall provide method of verification.

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).
- 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 surface 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 OOGO2.III.A.2.i 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.
- 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. <u>When the Communitization Agreement number is known, it shall also be on the sign.</u>

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 Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822
 - Lea County Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 689-5981
- 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. Operator is approved 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. Operator is approved 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 2nd 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 Onshore Oil and Gas Order No. 2 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.
- <u>Wait on cement (WOC) for Potash Areas:</u> 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 <u>24 hours</u>. 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. <u>Wait on cement (WOC) for Water Basin:</u> 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 <u>8 hours</u>. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.

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- 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 Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 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 OOGO2.III.A.2.i 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 Onshore Order 2 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 Onshore Order No. 2.

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. **ZS032923**

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

District IV 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

Op	arator:	OGRID:
	MARATHON OIL PERMIAN LLC	372098
	990 Town & Country Blvd.	Action Number:
	Houston, TX 77024	202724
		Action Type:
		[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

CONDITIC		
Created By	Condition	Condition Date
pkautz	Will require a name change complying with OCD policy prior to putting the well into production.	4/5/2023
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104	4/5/2023
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	4/5/2023
pkautz	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	4/5/2023
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing	4/5/2023

CONDITIONS

Action 202724