

Submit 1 Copy To Appropriate District
Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103
Revised July 18, 2013

WELL API NO. 30-025-44666
5. Indicate Type of Lease STATE ☐ FEE ☒
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name BLUEBERRY HILL FEE 24 35 19 WXY
8. Well Number 4H
9. OGRID Number 372098
10. Pool name or Wildcat WC-025 G-09 S243532M; WOLFBONE
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3337' GL

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐

2. Name of Operator
Marathon Oil Permian LLC

3. Address of Operator
5555 San Felipe St., Houston, TX 77056

4. Well Location
Unit Letter H : 2416 feet from the NORTH line and 1316 feet from the EAST line
Section 19 Township 24S Range 35E NMPM County LEA

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
3337' GL

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☒	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
DOWNHOLE COMMINGLE ☐			
CLOSED-LOOP SYSTEM ☐			
OTHER: ☐		OTHER: ☐	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Marathon Oil Permian LLC requests to make the following changes to the approved APD.

Change name from Blueberry Hill Fee 24 35 19 WXY 4H to Blueberry Hill 19 WA Fee 4H

Change FTP from 150' FSL & 1316' FEL to 100' FSL & 1316' FEL

Change LTP/BHL 150' FNL & 1323' FEL to 100' FNL & 1323' FEL

Change to the proposed casing and cementing program (changes in yellow)

Type	Hole Size	Casing Size	Casing Weight/lb	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	1100	997	0
Int1	9.875	7.625	29	11800	1518	0
Prod	6.75	5.5	23	19906	563	11500

Remove Liner

Spud Date:

4/15/2019

Rig Release Date:

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

SIGNATURE



TITLE CTR - Technician HES

DATE 5/16/2019

Type or print name

Adrian Covarrubias

E-mail address:

acovarrubias@marathonoil.com

PHONE: 713-296-3368

For State Use Only

APPROVED BY:



TITLE

Petroleum Engineer

DATE

05/23/19

Conditions of Approval (if any):

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
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

¹ API Number 30-025-44666	² Pool Code 98098	³ Pool Name WILDCAT WOLFBONE OIL POOL
⁴ Property Code 321168	⁵ Property Name BLUEBERRY HILL 19 WA FEE	⁶ Well Number 4H
⁷ OGRID No. 372098	⁸ Operator Name MARATHON OIL PERMIAN LLC	⁹ Elevation 3337'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	19	24S	35E		2416	NORTH	1316	EAST	LEA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	18	24S	35E		100	NORTH	1323	EAST	LEA

¹² Dedicated Acres 480.0	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

Defining Well	CORNER COORDINATES NAD 83, SPCS NM EAST A - X: 827909.13' / Y: 446745.98' B - X: 830555.18' / Y: 446768.25' C - X: 830624.22' / Y: 438848.31' D - X: 827982.44' / Y: 438824.00'	CORNER COORDINATES NAD 27, SPCS NM EAST A - X: 786724.15' / Y: 446686.88' B - X: 786370.13' / Y: 446709.13' C - X: 789438.83' / Y: 438789.40' D - X: 786797.10' / Y: 438765.11'	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or undivided mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature: <i>Adrian Covarrubias</i> Date: 4/8/2019 Printed Name: Adrian Covarrubias E-mail Address:
	LAST TAKE POINT/BOTTOM HOLE LOCATION 100' FNL 1323' FEL, SECTION 18 NAD 83, SPCS NM EAST X: 829233.22' / Y: 446857.12' LAT: 32.22450798N / LON: 103.40234380W NAD 27, SPCS NM EAST X: 788048.21' / Y: 446598.01' LAT: 32.22438265N / LON: 103.40167199W		
	FIRST TAKE POINT 2548' FNL 1316' FEL, SECTION 19 NAD 83, SPCS NM EAST X: 829308.10' / Y: 438938.20' LAT: 32.20328490N / LON: 103.40231796W NAD 27, SPCS NM EAST X: 788122.74' / Y: 438877.30' LAT: 32.20315945N / LON: 103.40184737W		
	KICK OFF POINT 2548' FNL 1316' FEL, SECTION 19 NAD 83, SPCS NM EAST X: 829308.10' / Y: 438938.20' LAT: 32.20328490N / LON: 103.40231796W NAD 27, SPCS NM EAST X: 788122.74' / Y: 438877.30' LAT: 32.20315945N / LON: 103.40184737W		
SURFACE HOLE LOCATION 2416' FNL 1316' FEL, SECTION 19 NAD 83, SPCS NM EAST X: 829308.18' / Y: 439087.81' LAT: 32.20364663N / LON: 103.40231403W NAD 27, SPCS NM EAST X: 788122.82' / Y: 439008.91' LAT: 32.20352119N / LON: 103.40184342W			18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. APRIL 4, 2019 Date of Survey Signature and Seal of Professional Surveyor: <i>Lloyd P. Short</i> Certificate Number: LLOYD P. SHORT 21653

Distances/areas relative to NAD 83 Combined Scale Factor: 1.00000407 Convergence: 0.49619996°

Marathon Oil Permian, LLC

Lea County, NM (NAD27-NME)

Blueberry Hill Pad

Blueberry Hill 19 WA Fee #4H

OH

Plan: Plan #3

Standard Planning Report

05 April, 2019



www.scientificdrilling.com

Scientific Drilling, Intl Planning Report

Database: Midland District
Company: Marathon Oil Permian, LLC
Project: Lea County, NM (NAD27-NME)
Site: Blueberry Hill Pad
Well: Blueberry Hill 19 WA Fee #4H
Wellbore: OH
Design: Plan #3

Local Co-ordinate Reference: Well Blueberry Hill 19 WA Fee #4H
TVD Reference: KB=25' @ 3362.00usft
MD Reference: KB=25' @ 3362.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,666.00	0.00	0.00	3,666.00	0.00	0.00	0.00	0.00	0.00	0.00
BUILD 2.0°/100									
3,951.00	5.70	180.00	3,950.53	-14.16	0.00	-14.16	2.00	2.00	0.00
HOLD									
4,951.00	5.70	180.00	4,945.59	-113.48	0.00	-113.48	0.00	0.00	0.00
DROP 2.0°/100									
5,236.00	0.00	0.00	5,230.12	-127.65	0.00	-127.64	2.00	-2.00	-63.16
HOLD									
11,844.38	0.00	0.00	11,838.50	-127.65	0.00	-127.64	0.00	0.00	0.00
BUILD 10.0°/100									
12,304.31	45.99	359.45	12,250.60	47.24	-1.69	47.25	10.00	10.00	-0.12
FTP[#4H]									
12,784.38	94.00	359.45	12,410.06	485.25	-5.93	485.28	10.00	10.00	0.00
EOC - HOLD									
19,905.88	94.00	359.45	11,913.29	7,589.07	-74.61	7,589.44	0.00	0.00	0.00
TD at 19905.88 - BHL[#4H]									

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (bearing)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
BHL[#4H]	-94.00	359.45	11,913.29	7,589.07	-74.61	446,598.01	788,048.21	32° 13' 27.777 N	103° 24' 6.739 W
- plan hits target center									
- Rectangle (sides W60.00 H20.00 D7,200.00)									
FTP[#4H]	0.00	0.00	12,444.00	-131.61	-0.08	438,877.30	788,122.74	32° 12' 11.374 N	103° 24' 6.651 W
- plan misses target center by 263.43usft at 12304.31usft MD (12250.60 TVD, 47.24 N, -1.69 E)									
- Point									

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
3,666.00	3,666.00	0.00	0.00	BUILD 2.0°/100
3,951.00	3,950.53	-14.16	0.00	HOLD
4,951.00	4,945.59	-113.48	0.00	DROP 2.0°/100
5,236.00	5,230.12	-127.65	0.00	HOLD
11,844.38	11,838.50	-127.65	0.00	BUILD 10.0°/100
12,784.38	12,410.06	485.25	-5.93	EOC - HOLD
19,905.88	11,913.29	7,589.07	-74.61	TD at 19905.88

Marathon Oil Corporation

LEA COUNTY, NM (NAD27-NME)
BLUEBERRY HILL PAD
BLUEBERRY HILL 19 WA FEE #4H

PLAN #3

WELL DETAILS:

GROUND LEVEL: 3337.00
NORTHING: 439008.91 EASTING: 753122.82 LATITUDE: 32° 12' 12.675 N LONGITUDE: 103° 24' 5.635 W

SECTION DETAILS

MD	INC	AZ	TVD	+N-S	+E-W	DLEG	TFACE	VSECT	TARGET
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5999.03	0.00	0.00	3999.00	0.00	0.00	0.00	0.00	0.00	
3951.03	5.70	180.00	3950.00	-14.19	0.30	2.00	160.00	-14.19	
4951.00	5.70	180.00	4950.00	-13.48	0.00	0.00	0.00	-13.48	
5236.03	0.00	0.00	5230.00	-127.65	0.00	2.00	180.00	-127.65	
1844.39	0.00	0.00	1838.50	-127.95	0.00	0.00	0.00	-127.95	
2754.38	94.33	356.45	2640.00	435.25	-5.93	0.00	356.45	435.25	
9905.85	94.00	359.45	11913.29	7589.17	-74.61	0.00	0.00	7589.43	BHL[64H]

DESIGN TARGET DETAILS

Name	TVD	+N-S	+E-W	Northing	Easting
BHL[64H]	11913.29	7589.07	-74.61	445598.01	788048.21
FTP[64H]	12444.00	-131.61	-0.08	438877.30	788122.74

TARGET WINDOW: 12444' TVD @ OVS // 94.0° INC
DRILLING TARGET: 10' UP // 10' DOWN - 30' L / 30' R

SITE DETAILS: BLUEBERRY HILL PAD
SITE CENTRE NORTHING: 439008.91
EASTING: 753092.82

POSITIONAL UNCERTAINTY: 0.00
CONVERGENCE: 0.50
LOCAL NORTH: GRD

PROJECT DETAILS: LEA COUNTY, NM (NAD27-NME)
GEOCENTRIC SYSTEM: US STATE PLANE 1927 (EXACT SOLUTION)
DATUM: NAD 1927 (NADCON CONUS)
ELLIPSOID: CLARKE 1866
ZONE: NEW MEXICO EAST 3001
SYSTEM DATUM: MEAN SEA LEVEL

FORMATION TOP DETAILS

NO FORMATION DATA IS AVAILABLE

MAP SYSTEM: US STATE PLANE 1927 (EXACT SOLUTION)
DATUM: NAD 1927 (NADCON CONUS)
ELLIPSOID: CLARKE 1866
ZONE NAME: NEW MEXICO EAST 3001

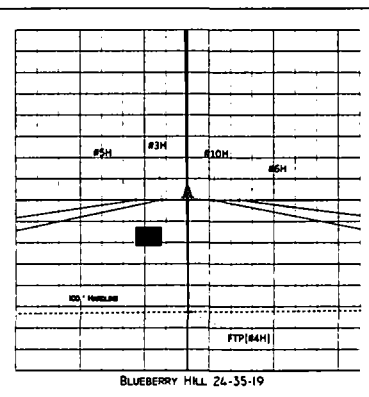
LOCAL ORIGIN: WELL BLUEBERRY HILL 9 WA FEE #4H, GRD NORTH

LATITUDE: 32° 12' 12.675 N
LONGITUDE: 103° 24' 5.635 W

GRID EAST: 753122.82
GRID NORTH: 439008.91
SCALE FACTOR: 1.000

GEOMAGNETIC MODEL: HDGM
SAMPLE DATE: 31-APR-19
MAGNETIC DECLINATION: 9.53°
DIP ANGLE FROM HORIZONTAL: 59.53°
MAGNETIC FIELD STRENGTH: 4916

TO CONVERT A MAGNETIC DIRECTION TO A GRID DIRECTION, ADD 0.1°
TO CONVERT A MAGNETIC DIRECTION TO A TRUE DIRECTION, ADD 9.53° EAST
TO CONVERT A TRUE DIRECTION TO A GRID DIRECTION, SUBTRACT 0.50°



BLUEBERRY HILL 24-35-19

CASING DETAILS

No casing data is available



To convert a True Direction to a Grid Direction, Subtract 0.50°
To convert a Magnetic Direction to a Grid Direction, Add 9.14°

AZIMUTH TO GRID NORTH:
True North: 00.50°
Magnetic North: 9.14°
Magnetic Field:
Strength: 4916.25
Dip Angle: 59.53°
Date: 11-APR-19
Model: HDGM

