

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

Form C-103
Revised July 18, 2013

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

WELL API NO. 30-025-44663
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 TB
8. Well Number 10H
9. OGRID Number 372098
10. Pool name or Wildcat WC-025 G-09 S243532M; WOLFBONE

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR LOG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-104) 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 : 2417 feet from the NORTH line and 1256 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 TB 10H to Blueberry Hill 19 TB Fee 10H
Change SHL from 2417' FNL & 1256' FEL to 2417' FNL & 1286' FEL
Change FTP from 2502' FNL & 330' FEL to 2550' FNL & 825' FEL
Change LTP/BHL 150' FNL & 330' FEL to 100' FNL & 825' FEL
Change dedicated acres from 240 to 480 acres.
Change proposed Casing and cementing program (changes in yellow)

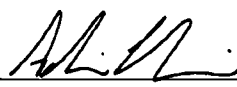
Type	Hole Size	Casing Size	Casing Weight/Rt	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	1100	997	0
Int1	9.875	7.625	29	11700	1508	0
Prod	6.75	5.5	23	19869	613	11400

Spud Date:

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 30-025-44663	² Pool Code 98098	³ Pool Name WILDCAT WOLFBONE OIL POOL
⁴ Property Code 321167	⁵ Property Name BLUEBERRY HILL 19 TB FEE	⁶ Well Number 10H
⁷ OGRID No. 372098	⁸ Operator Name MARATHON OIL PERMIAN LLC	⁹ Elevation 3338'

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		2417	NORTH	1286	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
A	18	24S	35E		100	NORTH	825	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.

Infill Well LAST TAKE/ BHL SECTION 7 A SECTION 8 B SECTION 9 SECTION 17 C SECTION 16 SECTION 18 D SECTION 19 SECTION 20 SHL KOP/ FIRST TAKE SHEET 1 OF 3 JOB No. R3837_005 REV 7 JCS 4/30/2019	CORNER COORDINATES NAD 83, SPCS NM EAST A - X: 827908.13' / Y: 446745.98' B - X: 830555.18' / Y: 446768.25' C - X: 830824.22' / Y: 438848.31' D - X: 827982.44' / Y: 438824.00'	CORNER COORDINATES NAD 27, SPCS NM EAST A - X: 786724.15' / Y: 446886.88' B - X: 789370.13' / Y: 446709.13' C - X: 789438.63' / Y: 438789.40' D - X: 786787.10' / 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 unleased 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. <i>[Signature]</i> 5/16/2019 Signature Date Adrian Covarrubias Printed Name E-mail Address 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. MAY 1, 2019 Date of Survey Signature and Seal of Professional Surveyor <i>[Signature]</i> Certificate Number LLOYD P. SHORT 21653
	LAST TAKE POINT/BOTTOM HOLE LOCATION 100' FNL 825' FEL, SECTION 18 NAD 83, SPCS NM EAST X: 829730.93' / Y: 446861.31' LAT: 32.22450783N / LON: 103.40073438W NAD 27, SPCS NM EAST X: 788545.90' / Y: 446802.20' LAT: 32.22438229N / LON: 103.40026266W		
	FIRST TAKE POINT 2550' FNL 825' FEL, SECTION 19 NAD 83, SPCS NM EAST X: 829798.12' / Y: 438940.72' LAT: 32.20328562N / LON: 103.40073052W NAD 27, SPCS NM EAST X: 788613.75' / Y: 438881.81' LAT: 32.20316015N / LON: 103.40026001W		
	KICK OFF POINT 2550' FNL 825' FEL, SECTION 19 NAD 83, SPCS NM EAST X: 829798.12' / Y: 438940.72' LAT: 32.20328562N / LON: 103.40073052W NAD 27, SPCS NM EAST X: 788613.75' / Y: 438881.81' LAT: 32.20316015N / LON: 103.40026001W		
SURFACE HOLE LOCATION 2417' FNL 1286' FEL, SECTION 19 NAD 83, SPCS NM EAST X: 829338.18' / Y: 439067.81' LAT: 32.20364592N / LON: 103.40221705W NAD 27, SPCS NM EAST X: 788152.82' / Y: 439008.91' LAT: 32.20352047N / LON: 103.40174844W			PROFESSIONAL SURVEYOR LLOYD P. SHORT 21653

Distances/areas relative to NAD 83 Combined Scale Factor: 0.99983586 Convergence: 00°08'49.08002"

Marathon Oil Corporation

LEA COUNTY, NM (NAD27-NME)
BLUEBERRY HILL PAD
BLUEBERRY HILL 19 TB FEE #10H

PLAN #3

WELL DETAILS:

UPHOLD LEVEL: 3557.10
NORTHING: 459009.9 EASTING: 788778.0
NAD27-NME 52° 2' 26.74" N 03° 24' 6.297" W

SECTION DETAILS:

MD	NC	AC	TC	+N-S	+E-W	CLEAR	TR-CE	/SEC	TARGET
0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	
2.20.00	0.00	0.00	242.10	0.00	0.00	0.00	0.00	1.00	
1370.00	0.00	0.00	3552.90	-53.80	13.10	2.00	0.40	-32.2	
4510.00	0.00	0.00	4298.20	-95.20	472.4	0.00	0.00	-99.40	
5520.00	0.00	0.00	5230.80	-25.15	628.4	2.00	80.0	-1.5	
5530.00	0.00	0.00	5230.80	-25.15	628.4	2.00	80.0	-1.5	
2743.50	94.00	359.49	2285.36	456.85	6 9.73	0.00	359.49	-5.32	
9869.32	94.00	359.49	1789.10	7594.64	556.98	0.00	0.00	559.38	BHL# 0H

DESIGN TARGET DETAILS:

Name	TVD	+N-S	+E-W	Northing	Easting
BHL#10H	11789.30	7594.64	556.98	44603.58	788709.80
FTP#10H	12320.00	-125.59	625.25	43883.32	788778.07

TARGET WINDOW: 12320' TVD @ 0VS // 94.0° INC
DRILLING TARGET: 10' UP // 10' DOWN - 30' L / 30' R

SITE DETAILS: BLUEBERRY HILL PAD
SITE CENTRE POINTING: 459008.91
EASTING: 58092.82

POSITIONAL UNCERTAINTY: 0.00
CONVEYANCE: 0.50
LOCAL NORTH: GRID

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

FORMATION TOP DETAILS:

FORMATION DATA IS AVAILABLE

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

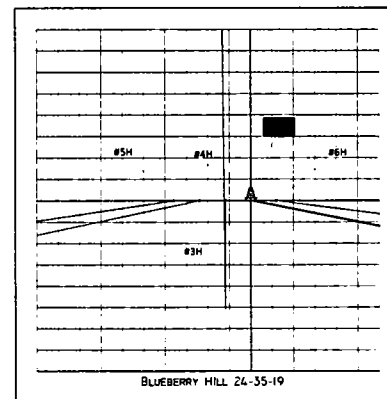
LOCAL CO-ORDINATE: WELL BLUEBERRY HILL 19 TB FEE #10H, GRID NORTH

LATITUDE: 32° 2' 26.74" N
LONGITUDE: 103° 24' 6.297" W

GRID EAST: 788778.07
GRID NORTH: 459009.91
SCALE FACTOR: 1.000

GEOMAGNETIC MODEL: MAGNETIC
SOURCE: C-100-10-9
MAGNETIC DECLINATION: 9.53°
DIP ANGLE FROM HORIZONTAL: 59.8°
MAGNETIC FIELD STRENGTH: 29.4

TO CONVERT A MAGNETIC DECLINATION TO A GRID DECLINATION, ADD 0.50°
TO CONVERT A MAGNETIC DECLINATION TO A TRUE DECLINATION, ADD 9.03° EAST
TO CONVERT A TRUE DECLINATION TO A GRID DECLINATION, SUBTRACT 0.50°

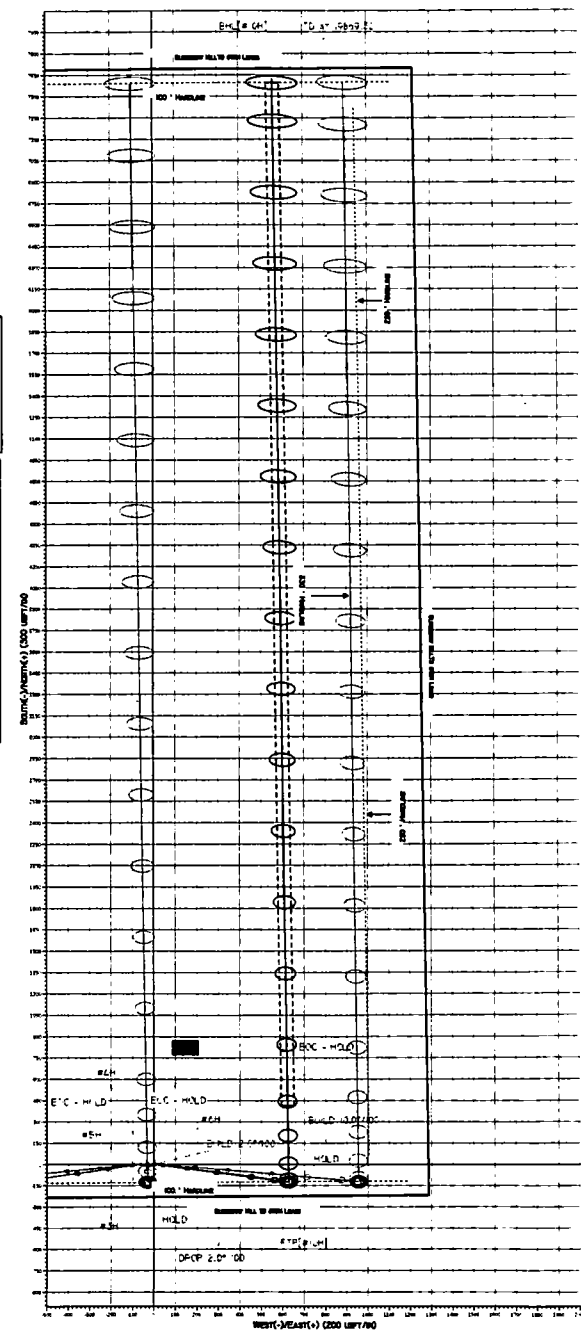
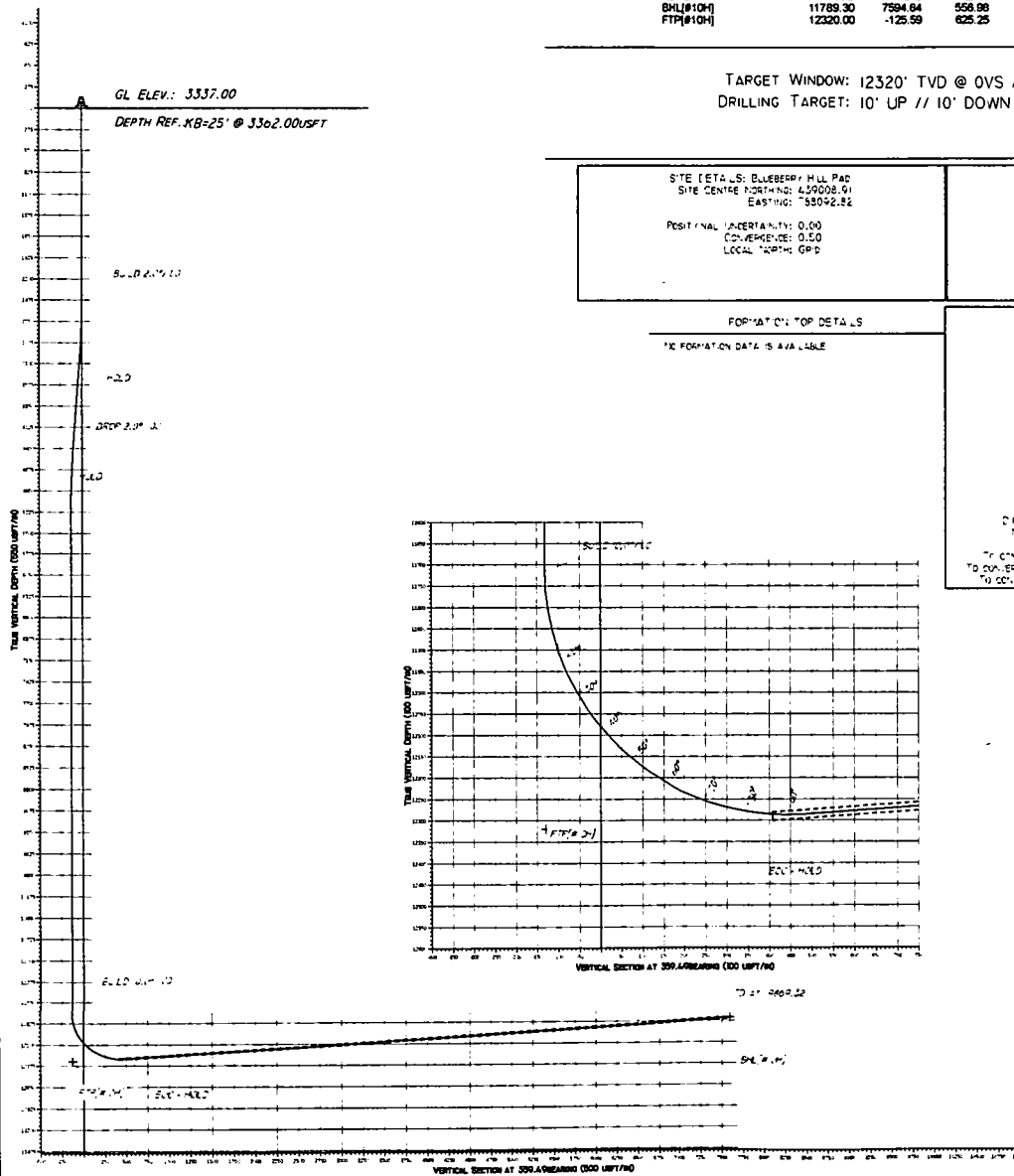


CASING DETAILS
No casing data is available



To convert a True Direction to a Grid Direction, Subtract 0.50°
To convert a Magnetic Direction to a Grid Direction, Add 8.14°

32 HOURS TO GRID NORTH
TRUE NORTH: 0.5°
MAGNETIC NORTH: 8.14°
MAGNETIC FIELD
STRENGTH: 29.4
DIP ANGLE: 59.8°
DATE: 11/15/2019
TIME: 10:00



Marathon Oil Permian, LLC

Lea County, NM (NAD27-NME)

Blueberry Hill Pad

Blueberry Hill 19 TB Fee #10H

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 TB Fee #10H
Wellbore: OH
Design: Plan #3

Local Co-ordinate Reference: Well Blueberry Hill 19 TB Fee #10H
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
2,420.00	0.00	0.00	2,420.00	0.00	0.00	0.00	0.00	0.00	0.00
BUILD 2.0°/100									
3,370.00	19.00	101.40	3,352.68	-30.85	153.00	-32.21	2.00	2.00	0.00
HOLD									
4,370.00	19.00	101.40	4,298.20	-95.20	472.14	-99.40	0.00	0.00	0.00
DROP 2.0°/100									
5,320.00	0.00	0.00	5,230.89	-126.05	625.14	-131.61	2.00	-2.00	-10.67
HOLD									
11,803.90	0.00	0.00	11,714.78	-126.05	625.14	-131.61	0.00	0.00	0.00
BUILD 10.0°/100									
12,267.23	46.33	359.49	12,129.24	51.30	623.58	45.74	10.00	10.00	-0.11
FTP[#10H]									
12,743.90	94.00	359.49	12,286.34	486.85	619.73	481.32	10.00	10.00	0.00
EOC - HOLD									
19,869.32	94.00	359.49	11,789.30	7,594.64	556.98	7,589.38	0.00	0.00	0.00
TD at 19869.32 - BHL[#10H]									

Design Targets

Target Name

- hit/miss target - Shape	Dip Angle (°)	Dip Dir. (bearing)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
BHL[#10H] - plan hits target center - Rectangle (sides W60.00 H200.00 D7,200.00)	-94.00	359.49	11,789.30	7,594.64	556.98	446,603.58	788,709.80	32° 13' 27.776 N	103° 23' 59.038 W
FTP[#10H] - plan misses target center by 260.15usft at 12267.23usft MD (12129.24 TVD, 51.30 N, 623.58 E) - Point	0.00	0.00	12,320.00	-125.59	625.25	438,883.32	788,778.07	32° 12' 11.377 N	103° 23' 59.024 W

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,420.00	2,420.00	0.00	0.00	BUILD 2.0°/100
3,370.00	3,352.68	-30.85	153.00	HOLD
4,370.00	4,298.20	-95.20	472.14	DROP 2.0°/100
5,320.00	5,230.89	-126.05	625.14	HOLD
11,803.90	11,714.78	-126.05	625.14	BUILD 10.0°/100
12,743.90	12,286.34	486.85	619.73	EOC - HOLD
19,869.32	11,789.30	7,594.64	556.98	TD at 19869.32