

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. 30-025-44665
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 WA
8. Well Number 6H
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 BACK TO 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 <u>H</u> : <u>2417</u> feet from the <u>NORTH</u> line and <u>1286</u> feet from the <u>EAST</u> line Section <u>19</u> Township <u>24S</u> Range <u>35E</u> NMPM County <u>LEA</u>	
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:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☒
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐
CLOSED-LOOP SYSTEM ☐
OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐
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 WA 6H to Blueberry Hill 19 WA Fee 6H

Change SHL from 2417' FNL & 1286' FEL to 2417' FNL & 1256' FEL

Change FTP from 150' FSL & 330' FEL to 100' FSL & 330' FEL

Change LTP/BHL 150' FNL & 330' FEL to 100' FNL & 330' FEL

Change proposed casing and cementing program (changes in yellow)

Type	Hole Size	Casing Size	Casing Weight/ft	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	20191	543	11500

Remove Liner

Spud Date:

4/12/2019

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:

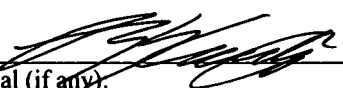
acovarrubias@marathonoil.com

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
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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 30-025-44665	² Pool Code 98098	³ Pool Name WILDCAT WOLFBONE OIL POOL
⁴ Property Code 321166	⁵ Property Name BLUEBERRY HILL 19 WA FEE	⁶ Well Number 6H
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		2417	NORTH	1256	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	330	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 CORNER COORDINATES NAD 83, SPCS NM EAST A - X: 827809.13' / Y: 446745.98' B - X: 830555.18' / Y: 446768.25' C - X: 830824.22' / Y: 438848.31' D - X: 827882.44' / Y: 438824.00' CORNER COORDINATES NAD 27, SPCS NM EAST A - X: 786724.15' / Y: 446868.88' B - X: 789370.13' / Y: 446709.13' C - X: 789438.83' / Y: 438789.40' D - X: 786797.10' / Y: 438765.11' LAST TAKE POINT/BOTTOM HOLE LOCATION 100' FNL 330' FEL, SECTION 18 NAD 83, SPCS NM EAST X: 830225.92' / Y: 446865.47' LAT: 32.22450728N / LON: 103.39913378W NAD 27, SPCS NM EAST X: 789040.88' / Y: 446808.36' LAT: 32.22438189N / LON: 103.39866212W FIRST TAKE POINT 2552' FNL 330' FEL, SECTION 19 NAD 83, SPCS NM EAST X: 830294.12' / Y: 438945.28' LAT: 32.20328633N / LON: 103.39913024W NAD 27, SPCS NM EAST X: 789108.74' / Y: 438886.37' LAT: 32.20318085N / LON: 103.39865979W KICK OFF POINT 2552' FNL 330' FEL, SECTION 18 NAD 83, SPCS NM EAST X: 830294.12' / Y: 438945.28' LAT: 32.20328633N / LON: 103.39913024W NAD 27, SPCS NM EAST X: 789108.74' / Y: 438886.37' LAT: 32.20318085N / LON: 103.39865979W SURFACE HOLE LOCATION 2417' FNL 1256' FEL, SECTION 19 NAD 83, SPCS NM EAST X: 829388.18' / Y: 439087.81' LAT: 32.20364520N / LON: 103.40212007W NAD 27, SPCS NM EAST X: 788182.82' / Y: 439008.91' LAT: 32.20351976N / LON: 103.40164947W LAST TAKE/ BHL NAD 83, SPCS NM EAST X: 830225.92' / Y: 446865.47' LAT: 32.22450728N / LON: 103.39913378W NAD 27, SPCS NM EAST X: 789040.88' / Y: 446808.36' LAT: 32.22438189N / LON: 103.39866212W PI NAD 83, SPCS NM EAST X: 830225.92' / Y: 446865.47' LAT: 32.22450728N / LON: 103.39913378W NAD 27, SPCS NM EAST X: 789040.88' / Y: 446808.36' LAT: 32.22438189N / LON: 103.39866212W SHL NAD 83, SPCS NM EAST X: 830225.92' / Y: 446865.47' LAT: 32.22450728N / LON: 103.39913378W NAD 27, SPCS NM EAST X: 789040.88' / Y: 446808.36' LAT: 32.22438189N / LON: 103.39866212W KOP/ FIRST TAKE NAD 83, SPCS NM EAST X: 830225.92' / Y: 446865.47' LAT: 32.22450728N / LON: 103.39913378W NAD 27, SPCS NM EAST X: 789040.88' / Y: 446808.36' LAT: 32.22438189N / LON: 103.39866212W SHEET 1 OF 3 JOB NO. R3837_004 REV 6 JCS 4/3/2019	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> 4/8/2019 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. APRIL 4, 2019 Date of Survey Signature and Seal of Professional Surveyor <i>[Signature]</i> Certificate Number LLOYD P. SHORT 21653
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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 #6H

OH

Plan: Plan #3

Standard Planning Report

05 April, 2019



www.scientificdrilling.com

Scientific Drilling, Intl Planning Report

Database:	Midland District	Local Co-ordinate Reference:	Well Blueberry Hill 19 WA Fee #6H
Company:	Marathon Oil Permian, LLC	TVD Reference:	KB=25' @ 3362.00usft
Project:	Lea County, NM (NAD27-NME)	MD Reference:	KB=25' @ 3362.00usft
Site:	Blueberry Hill Pad	North Reference:	Grid
Well:	Blueberry Hill 19 WA Fee #6H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #3		

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
1,940.00	0.00	0.00	1,940.00	0.00	0.00	0.00	0.00	0.00	0.00
BUILD 2.0°/100									
3,167.50	24.55	97.50	3,130.28	-33.80	256.76	-36.04	2.00	2.00	0.00
HOLD									
4,167.50	24.55	97.50	4,039.88	-88.04	668.70	-93.87	0.00	0.00	0.00
DROP 2.0°/100									
5,395.00	0.00	0.00	5,230.17	-121.84	925.46	-129.91	2.00	-2.00	-7.94
HOLD									
12,127.50	0.00	0.00	11,962.66	-121.84	925.46	-129.91	0.00	0.00	0.00
BUILD 10.0°/100									
12,589.97	46.25	359.50	12,376.53	54.89	923.92	46.82	10.00	10.00	-0.11
FTP[#6H]									
13,067.50	94.00	359.50	12,534.22	491.06	920.11	483.01	10.00	10.00	0.00
EOC - HOLD									
20,191.48	94.00	359.50	12,037.28	7,597.42	858.06	7,589.64	0.00	0.00	0.00
TD at 20191.48 - BHL[#6H]									

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[#6H]	-94.00	359.50	12,037.28	7,597.42	858.06	446,606.36	789,040.88	32° 13' 27.775 N	103° 23' 55.184 W
- plan hits target center									
- Rectangle (sides W60.00 H20.00 D7,200.00)									
FTP[#6H]	0.00	0.00	12,568.00	-122.54	925.92	438,886.37	789,108.74	32° 12' 11.379 N	103° 23' 55.175 W
- plan misses target center by 261.05usft at 12589.97usft MD (12376.53 TVD, 54.89 N, 923.92 E)									
- Point									

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,940.00	1,940.00	0.00	0.00	BUILD 2.0°/100
3,167.50	3,130.28	-33.80	256.76	HOLD
4,167.50	4,039.88	-88.04	668.70	DROP 2.0°/100
5,395.00	5,230.17	-121.84	925.46	HOLD
12,127.50	11,962.66	-121.84	925.46	BUILD 10.0°/100
13,067.50	12,534.22	491.06	920.11	EOC - HOLD
20,191.48	12,037.28	7,597.42	858.06	TD at 20191.48



LEA COUNTY, NM (NAD27-NME)
BLUEBERRY HILL PAD
BLUEBERRY HILL 19 WA FEE #6H

PLAN #3

WELL DETAILS:

GROUND LEVEL: 3337.10		LATITUDE		LONGITUDE	
N/-S	E/-W	EASTING	NORTH	EASTING	NORTH
0.00	0.00	499152.82	52° 12' 12.67" N	24	5,538 N

[illegible]

DESIGN TARGET DETAILS					
Name	TVD	+N/-S	+E/-W	Northing	Easting
BH1[66H]	12037.28	7597.42	858.08	446806.36	789040.88
FTP[66H]	12568.00	-122.54	925.92	436886.37	789106.74

TARGET WINDOW: 12568' TVD @ OVS // 94.0° INC
DRILLING TARGET: 10' UP // 10' DOWN - 30' L/ 30' R

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SITE DETAILS: BLUEBERRY HILL PAD
SITE CENTRE NORTH NG: 459008.91
EASTING: 758092.82

POSITIONAL UNCERTAINTY: 0.00
CONVERGENCE: 0.50
LOCAL NORTH: GRID

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PROJECT DETAILS: LEA COUNTY, NM (MADON-NAME)
 GEODETIC SYSTEM: US STATE PLANE 1927 (EXACT SOLUTION)
 DATUM: NAD 1927 (MADCON CONUS)
 ELLIPSOID: CLARKE 1866
 ZONE: NEW MEXICO EAST 5001
 SYSTEM DATUM: MEAN SEA LEVEL

FORMATION TOP DETAILS

NO FORMATION DATA IS AVAILABLE

MAP SYSTEM: US STATE PLANE 1927 (EXACT SOLUTION)
DATUM: NAD 1927 (NAD CON CONTUS)
ELLIPSOID: CLARKE 1866
ZONE NAME: NEW MEXICO EAST 300'

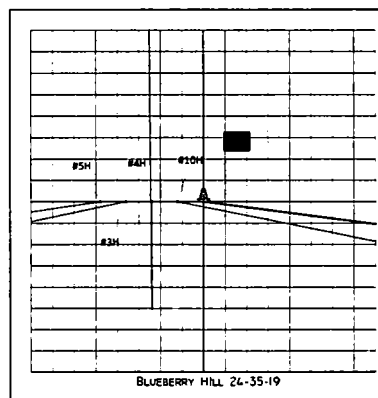
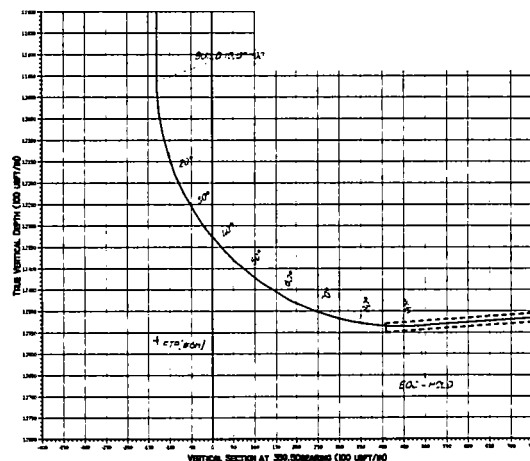
LOCAL ORIGIN: WELL BLUEBERRY HILL 19 WA FEE 45H, GRID NORTH

LATITUDE: 32° 12' 12.571 N
LONGITUDE: 03° 24' 5.938 W

GPD EAST: 795:92.52
 GPD NORTH: 439008.91
 SCALE FACTOR: 1.000

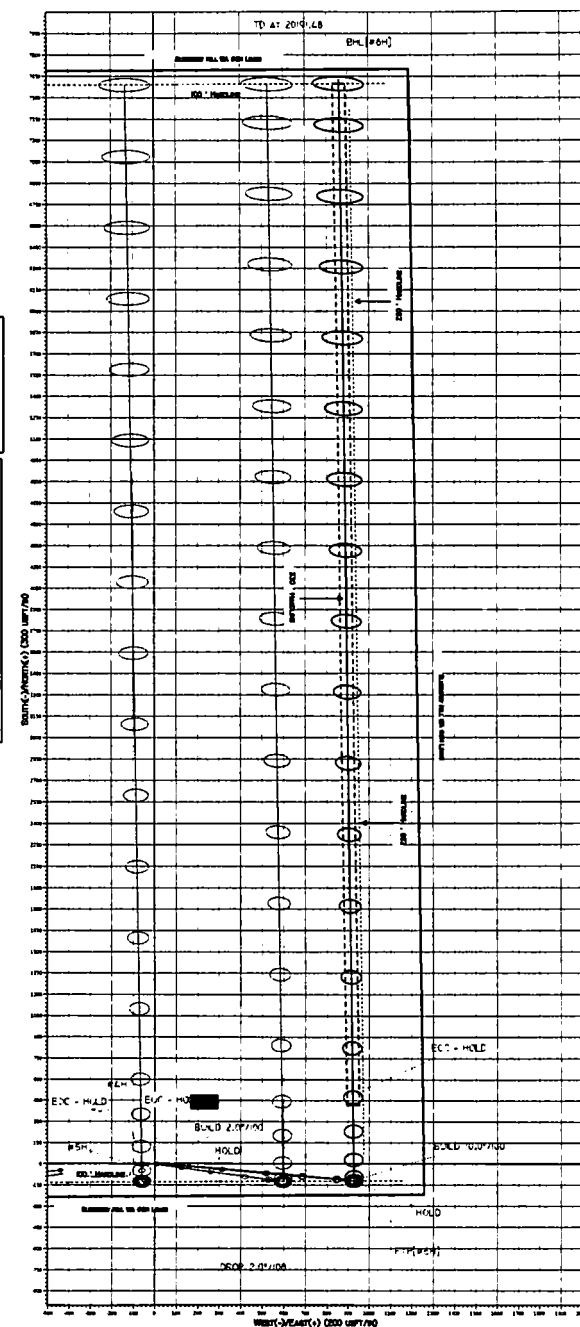
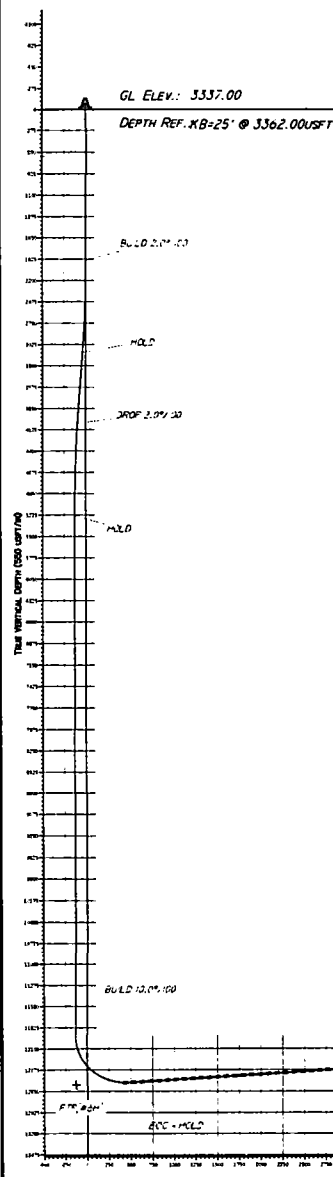
GEOMAGNETIC MODEL: HDGM
SAMPLE DATE: 06-APR-9
MAGNETIC DECLINATION: 6.55°
ANGLE FROM HORIZONTAL: 59.37°
MAGNETIC FIELD STRENGTH: 47914

TO CONVERT A MAGNETIC DIRECTION TO A GRID DIRECTION, ADD 6.14°
TO CONVERT A MAGNETIC DIRECTION TO A TRUE DIRECTION, ADD 6.53° EAST
TO CONVERT A TRUE DIRECTION TO A GRID DIRECTION, SUBTRACT 0.50°



CASING DETAILS

No census data is available



To convert a Magnetic Direction to a Grid Direction, Add 6.14°

AZIMUTH TO GRID NORTH
 TRUE NORTH: 0.5°
 MAGNETIC NORTH: 0.4°
 MAGNETIC FIELD
 STRENGTH: 479 ± 20nT
 DIP ANGLE: 89.87°
 DATE: 4-1-2016
 MODEL: MEJIM