

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.
30-025-44664

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 5H

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 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 G : 2415 feet from the NORTH line and 1376 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:

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 5H to Blueberry Hill 19 WA Fee 5H

Change FTP from 150' FSL & 2316' FEL to 100' FSL & 2316' FEL

Change LTP/BHL 150' FNL & 2316' FEL to 100' FNL & 2316' FEL

Changes to the Proposed Casing and Cement 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	20197	550	11500

Remove Liner

Spud Date:

4/18/2019

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

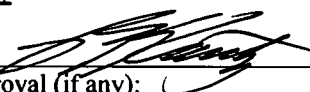
E-mail address:

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):

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 #5H

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 #5H
Company:	Marathon Oil Permian, LLC	TVD Reference:	KB=25' @ 3363.00usft
Project:	Lea County, NM (NAD27-NME)	MD Reference:	KB=25' @ 3363.00usft
Site:	Blueberry Hill Pad	North Reference:	Grid
Well:	Blueberry Hill 19 WA Fee #5H	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
1,920.00	0.00	0.00	1,920.00	0.00	0.00	0.00	0.00	0.00	0.00
BUILD 2.0°/100									
3,159.00	24.78	261.50	3,120.73	-38.99	-260.88	-36.57	2.00	2.00	0.00
HOLD									
4,159.00	24.78	261.50	4,028.66	-100.94	-675.41	-94.69	0.00	0.00	0.00
DROP 2.0°/100									
5,398.00	0.00	0.00	5,229.39	-139.93	-936.29	-131.26	2.00	-2.00	7.95
HOLD									
12,131.36	0.00	0.00	11,962.75	-139.93	-936.29	-131.26	0.00	0.00	0.00
BUILD 10.0°/100									
12,593.66	46.23	359.47	12,376.50	36.67	-937.93	45.34	10.00	10.00	-0.11
FTP[#5H]									
13,071.36	94.00	359.47	12,534.31	472.97	-941.97	481.66	10.00	10.00	0.00
EOC - HOLD									
20,196.78	94.00	359.47	12,037.27	7,580.73	-1,007.81	7,589.73	0.00	0.00	0.00
TD at 20196.78 - BHL[#5H]									

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (bearing)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
BHL[#5H]	-94.00	359.47	12,037.27	7,580.73	-1,007.81	446,589.67	787,055.01	32° 13' 27.780 N	103° 24' 18.301 W
- hit/miss target									
- Shape									
- plan hits target center									
- Rectangle (sides W60.00 H20.00 D7,200.00)									
FTP[#5H]	0.00	0.00	12,568.00	-140.77	-936.74	438,868.14	787,126.08	32° 12' 11.369 N	103° 24' 18.250 W
- plan misses target center by 261.07usft at 12593.66usft MD (12376.50 TVD, 36.67 N, -937.93 E)									
- Point									

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
1,920.00	1,920.00	0.00	0.00	BUILD 2.0°/100
3,159.00	3,120.73	-38.99	-260.88	HOLD
4,159.00	4,028.66	-100.94	-675.41	DROP 2.0°/100
5,398.00	5,229.39	-139.93	-936.29	HOLD
12,131.36	11,962.75	-139.93	-936.29	BUILD 10.0°/100
13,071.36	12,534.31	472.97	-941.97	EOC - HOLD
20,196.78	12,037.27	7,580.73	-1,007.81	TD at 20196.78



LEA COUNTY, NM (NAD27-NME)
BLUEBERRY HILL PAD
BLUEBERRY HILL 19 WA FEE #5H

PLAN #3

WELL DETAILS:

GROUND LEVEL: 3338.00
NORTHING: 439008.91 EASTING: 785092.52 LATITUDE: 32° 12' 12.681" N LONGITUDE: 103° 24' 7.335" W

SECTION DETAILS

WD	INC	TD	NV-S	-E-W	GLR	TFACE	VSECT	TARGET
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
920.00	0.10	0.20	920.00	0.00	0.01	0.00	0.00	
505.00	24.75	25.15	512.73	-26.99	-240.88	2.75	251.50	-35.57
-50.00	24.75	25.15	4128.56	-10.94	-575.47	0.00	0.00	-34.85
5108.00	0.00	0.00	5229.19	-129.93	-626.29	2.00	180.00	-31.25
2.3135	0.00	0.00	962.75	-129.93	-626.29	0.00	0.00	-31.25
1507.35	9.00	359.47	2534.5	472.97	-461.97	0.00	359.47	481.55
2396.78	94.00	359.47	2037.27	7580.73	-1007.81	0.00	0.00	7589.73

DESIGN TARGET DETAILS

Name	TVD	+N-S	+E-W	Northing	Easting
SHL[SH]	12037.27	7580.73	-1007.81	446588.67	787055.01
FTM[SH]	12568.00	-140.77	-436.74	438868.14	787128.06

TARGET WINDOW: 12568' 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: 785092.52

POSITIONAL UNCERTAINTY: 0.00
CONVERGENCE: 0.50
LOCAL NORTH: GRID

PROJECT DETAILS: LEA COUNTY, NM (NAD27-NME)
GEODETIC SYSTEM: US STATE PLANE (27) (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 (27) (EXACT SOLUTION)
DATUM: NAD 1927 (NADCON CONUS)
ELLIPSOID: CLARKE 1866
ZONE: NEW MEXICO EAST 3001

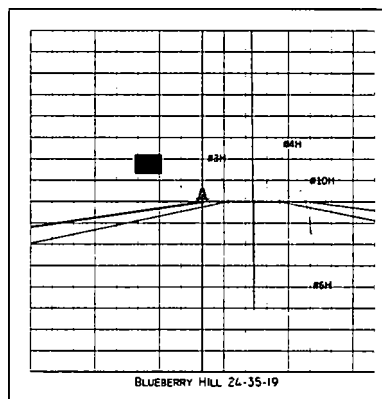
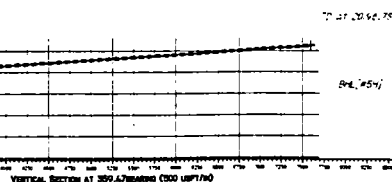
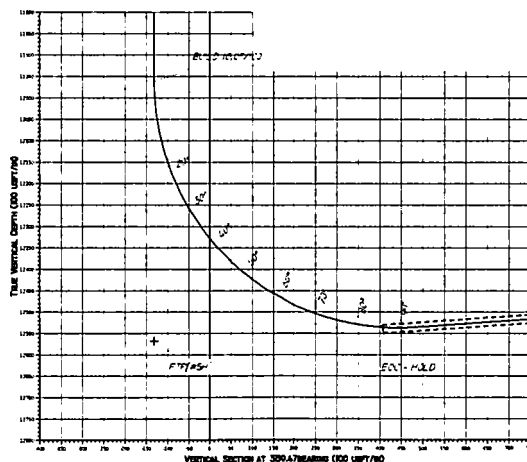
LOCAL ORIGIN: WELL BLUEBERRY HILL 19 WA FEE #5H, GRID NORTH

LETITUDE: 32° 12' 12.681" N
LONGITUDE: 103° 24' 7.335" W

GRID EAST: 785092.52
GRID NORTH: 439008.91
SCALE FACTOR: 1.000

GEOMAGNETIC MODEL: MAGN
SAMPLE DATE: 04-APR-19
MAGNETIC DECLINATION: 6.63°
DIP ANGLE FROM HORIZONTAL: 59.87°
MAGNETIC FIELD STRENGTH: 47914

TO CONVERT A MAGNETIC DIRECTION TO A GRID DIRECTION, ADD 6.6°
TO CONVERT A MAGNETIC DIRECTION TO A TRUE DIRECTION, ADD 6.63° EAST
TO CONVERT A TRUE DIRECTION TO A GRID DIRECTION, 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 6.14°

ADJUSTING TO GRID NORTH
TRUE NORTH: 0.50°
MAGNETIC NORTH: 6.14°
MAGNETIC FIELD
STRENGTH: 47914
DIP ANGLE: 59.87°
DATE: 4-2-2019
MODEL: MAGN

