

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.
30-015-44603

5. Indicate Type of Lease
STATE ☐ FEE ☒

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name
Trebuchet Fee 23 28 19 WA

8. Well Number 5H

9. OGRID Number
372098

10. Pool name or Wildcat
Purple Sage; Wolfcamp

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 D : 270 feet from the North line and 900 feet from the West line
Section 19 Township 23S Range 28E NMPM County Eddy

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
3084'

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. respectfully requests to make the following changes to the above listed well: NM OIL CONSERVATION
SHL Updated to 267' FSL 1311' FWL, N-19-T23S-R28E
BHL Updated to 330' FNL 1323' FWL, D-19T23S-R28E
Casing & Cement Updated:

Casing Type	Setting Depth	Hole Size	Casing Size	Weight	Sacks of Cement	TOC
Surface	490	17.5	13.375	54.5	505	0
Int 1	2445	12.25	9.625	36	726	0
Int 2	9815	8.75	7	29	860	0
Production	14113	6.125	4.5	13.5	540	8715

Attached is an updated directional plan, GCP & C-102.

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 Melissa Szudera TITLE Regulatory Compliance Representative DATE 02/06/2017

Type or print name Melissa Szudera E-mail address: mszudera@marathonoil.com PHONE: 713-296-3179

For State Use Only

APPROVED BY: Raymond K. Budany TITLE Geologist DATE 2-7-2018
Conditions of Approval (if any):



EDDY COUNTY, NM (NAD27)
TREBUCHET FEE 23-28-19
WA #5H
PLAN #1
PRECISION 59L

WELL DETAILS:

GROUND LEVEL: 3087.00
EASTING: 562673.28
LONGITUDE: 32° 17' 2.41" N 104° 7' 19.91" W

SECTION DETAILS:

NO	INS	ASL	TVD	ANUS	-E+AW	DLOG	TEFAGE	VSIG	T-AGE*
0.00	0.00	0.30	0.30	0.00	0.00	0.00	0.00	0.00	
2000.30	0.00	0.00	2000.30	0.00	0.00	0.00	0.00	0.00	
2200.30	4.00	175.00	2199.84	-5.95	3.91	2.00	175.00	-5.95	
2400.30	0.00	0.00	2400.30	0.00	0.00	0.00	0.00	0.00	
4600.30	0.00	0.00	4599.80	-52.49	15.58	2.00	4600.30	-52.49	
8915.24	0.00	0.30	8916.04	-52.49	15.58	0.30	0.00	-52.49	
9415.24	92.00	255.95	9443.30	470.07	5.92	0.00	559.95	470.07	
14113.14	96.00	255.95	9443.30	470.07	5.92	0.00	0.00	470.07	

DESIGN TARGET DETAILS:

Name	TVD	+N-S	+E-W	Northing	Easting
BH(TFWA#5H)	9483.00	4711.97	9.48	4671567.4	5626827.6
FTPT(TFWA#5H)	9483.00	4711.97	13.88	4671567.4	5626827.6

GL ELEV.: 3087.00

DEPTH REF.: KB = 25' @ 3 1/2' 000USFT (PRECISION 59L)

KOP - Build 2.07 / 100

EOB - HOLD

DROP 2.07 / 100

EOB - HOLD

Curve KOP - Build 2.07 / 100

Curve KOP - Build 2.07 / 100

BH(TFWA#5H)

TD 14113.14

Vertical Section at 0.000000 (100 LIFT/IN)

SITE DETAILS: TREBUCHET FEE 23-28-19

SITE CENTRE NORTHING: 467096.80

EASTING: 562643.28

POSITIONAL UNCERTAINTY: 0.00

LOCAL NORTH: GRID

PROJECT DETAILS: EDDY COUNTY, NM (NAD27)

GEODETIC SYSTEM: US STATE PLANE 1927 (EXACT SOLUTION)

DATUM: NAD 1983 (NADCON CONUS)

ELLIPSOID: CLARKE 1866

ZONE: NEW MEXICO EAST 3001

SYSTEM DATUM: MEAN SEA LEVEL

FORMATION TOP DETAILS

NO FORMATION DATA IS AVAILABLE

*NAD 1983 US STATE PLANE 1927 (EXACT SOLUTION)

DATUM: NAD 1983 (NADCON CONUS)

ELLIPSOID: CLARKE 1866

ZONE: NEW MEXICO EAST 3001

LOCAL OSHA WELL WA #5H, 2ND NORTH

LATITUDE: 32° 17' 2.41" N

LONGITUDE: 104° 7' 19.91" W

GRID EAST: 562643.28

GRID NORTH: 467096.80

SCALE FACTOR: 1.0001

GEODETIC SYSTEM: US STATE PLANE 1927

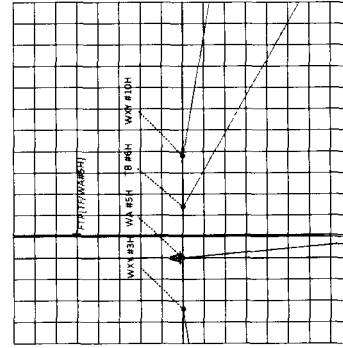
MAGNETIC DECLINATION: 7.32°

DEVIATION: 0.00°

TO CONVERT MAGNETIC NORTH TO GRID, ADD 7.32°

TO CONVERT MAGNETIC NORTH TO TRUE, ADD 3.2° EAST

TO CONVERT TRUE NORTH TO GRID, SUBTRACT 0.1°



TREBUCHET FEE 23-28-19



Scientific Drilling

Marathon Oil Permian, LLC

Eddy County, NM (NAD27)

Trebuchet Fee 23-28-19

WA #5H

OH

Plan: Plan #1

Standard Planning Report

02 February, 2018



www.scientificdrilling.com

Planning Report

Database	Midland District	Location	Well WA #5H
Company	Marathon Oil Permian, LLC	Tie Reference	KB = 25' @ 3112.00usft (Precision 594)
Project	Eddy County, NM (NAD27)	MD Reference	KB = 25' @ 3112.00usft (Precision 594)
Site	Trebuchet Fee 23-28-19	North Arrow	Grid
Well	WA #5H	Survey Calculation Method	Minimum Curvature
Wellbore	OH		
Design	Plan #1		

Project	Eddy County, NM (NAD27)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		Using geodetic scale factor

Site		Trebuchet Fee 23-28-19			
Site Position:		Northing:	467,096.80 usft	Latitude:	32° 17' 2.411 N
From:	Map	Easting:	562,643.28 usft	Longitude:	104° 7' 50.260 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.11 °

Well	WA #5H					
Well Position	+N/-S	0.00 usft	Northing:	467,096.80 usft	Latitude:	32° 17' 2.411 N
	+E/-W	30.00 usft	Easting:	562,673.28 usft	Longitude:	104° 7' 49.910 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	3,087.00 usft

Wellbore	OH				
Magnetic	Model Name	Sample Date	Declination	Dip Angle	Field Strength (G)
	HDGM	2/2/2018	7.32	60.07	48,033

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	N/A	ABW	Direction
	(usft)	(usft)	(usft)	(Degrees)
	0.00	0.00	0.00	0.00

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (Degrees)	Vertical Depth (usft)	N/A (usft)	ABW (usft)	Depth Rate (usft/ft)	Rate (usft/ft)	Turn Rate (usft/ft)	TBD (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,200.00	4.00	175.00	2,199.84	-6.95	0.61	2.00	2.00	0.00	175.00	
4,200.00	4.00	175.00	4,194.97	-145.93	12.77	0.00	0.00	0.00	0.00	
4,400.00	0.00	0.00	4,394.80	-152.89	13.38	2.00	-2.00	0.00	180.00	
8,915.24	0.00	0.00	8,910.04	-152.89	13.38	0.00	0.00	0.00	0.00	
9,815.24	90.00	359.95	9,483.00	420.07	12.92	10.00	10.00	0.00	359.95	
14,113.14	90.00	359.95	9,483.00	4,717.97	9.46	0.00	0.00	0.00	0.00	BHL[TF/WA#5H]

Planning Report

Client:	Midland District	Local Coordinates Reference:	Well WA #5H
Company:	Marathon Oil Permian, LLC	Map Reference:	KB = 25' @ 3112.00usft (Precision 594)
Project:	Eddy County, NM (NAD27)	Map Reference:	KB = 25' @ 3112.00usft (Precision 594)
Site:	Trebuchet Fee 23-28-19	North Reference:	Grid
Well:	WA #5H	Survey Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Assumed Azimuth (best fit)	Vertical Depth (usft)	True North (usft)	True East (usft)	Vertical Depth (usft)	Depth (usft)	Bulk (usft)	True North (usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP - Build 2.0° / 100									
2,100.00	2.00	175.00	2,099.98	-1.74	0.15	-1.74	2.00	2.00	0.00
2,200.00	4.00	175.00	2,199.84	-6.95	0.61	-6.95	2.00	2.00	0.00
EOB - HOLD									
2,300.00	4.00	175.00	2,299.59	-13.90	1.22	-13.90	0.00	0.00	0.00
2,400.00	4.00	175.00	2,399.35	-20.85	1.82	-20.85	0.00	0.00	0.00
2,500.00	4.00	175.00	2,499.11	-27.80	2.43	-27.80	0.00	0.00	0.00
2,600.00	4.00	175.00	2,598.86	-34.75	3.04	-34.75	0.00	0.00	0.00
2,700.00	4.00	175.00	2,698.62	-41.70	3.65	-41.70	0.00	0.00	0.00
2,800.00	4.00	175.00	2,798.38	-48.65	4.26	-48.65	0.00	0.00	0.00
2,900.00	4.00	175.00	2,898.13	-55.60	4.86	-55.60	0.00	0.00	0.00
3,000.00	4.00	175.00	2,997.89	-62.54	5.47	-62.54	0.00	0.00	0.00
3,100.00	4.00	175.00	3,097.65	-69.49	6.08	-69.49	0.00	0.00	0.00
3,200.00	4.00	175.00	3,197.40	-76.44	6.69	-76.44	0.00	0.00	0.00
3,300.00	4.00	175.00	3,297.16	-83.39	7.30	-83.39	0.00	0.00	0.00
3,400.00	4.00	175.00	3,396.91	-90.34	7.90	-90.34	0.00	0.00	0.00
3,500.00	4.00	175.00	3,496.67	-97.29	8.51	-97.29	0.00	0.00	0.00
3,600.00	4.00	175.00	3,596.43	-104.24	9.12	-104.24	0.00	0.00	0.00
3,700.00	4.00	175.00	3,696.18	-111.19	9.73	-111.19	0.00	0.00	0.00
3,800.00	4.00	175.00	3,795.94	-118.14	10.34	-118.14	0.00	0.00	0.00
3,900.00	4.00	175.00	3,895.70	-125.09	10.94	-125.09	0.00	0.00	0.00
4,000.00	4.00	175.00	3,995.45	-132.04	11.55	-132.04	0.00	0.00	0.00
4,100.00	4.00	175.00	4,095.21	-138.98	12.16	-138.98	0.00	0.00	0.00
4,200.00	4.00	175.00	4,194.97	-145.93	12.77	-145.93	0.00	0.00	0.00
DROP 2.0° / 100									
4,300.00	2.00	175.00	4,294.82	-151.15	13.22	-151.15	2.00	-2.00	0.00
4,400.00	0.00	0.00	4,394.80	-152.89	13.38	-152.89	2.00	-2.00	0.00
EOD - HOLD									
4,500.00	0.00	0.00	4,494.80	-152.89	13.38	-152.89	0.00	0.00	0.00
4,600.00	0.00	0.00	4,594.80	-152.89	13.38	-152.89	0.00	0.00	0.00
4,700.00	0.00	0.00	4,694.80	-152.89	13.38	-152.89	0.00	0.00	0.00
4,800.00	0.00	0.00	4,794.80	-152.89	13.38	-152.89	0.00	0.00	0.00
4,900.00	0.00	0.00	4,894.80	-152.89	13.38	-152.89	0.00	0.00	0.00

Planning Report

Database:	Midland District	Well:	Well WA #5H
Company:	Marathon Oil Permian, LLC	KB = 25' @ 3112.00usft (Precision 594)	
Project:	Eddy County, NM (NAD27)	KB = 25' @ 3112.00usft (Precision 594)	
Site:	Trebuchet Fee 23-28-19	Grid	
Well:	WA #5H	Minimum Curvature	
Wellbore:	OH		
Design:	Plan #1		

Planned Survey									
Measured Depth (ft)	Reduction (ft)	Asimuth (Degrees)	Vertical Depth (ft)	True Azimuth (ft)	True Depth (ft)	True Azimuth (ft)	Depth (ft)	Build Rate (ft/100ft)	Turn Rate (ft/100ft)
5,000.00	0.00	0.00	4,994.80	-152.89	13.38	-152.89	0.00	0.00	0.00
5,100.00	0.00	0.00	5,094.80	-152.89	13.38	-152.89	0.00	0.00	0.00
5,200.00	0.00	0.00	5,194.80	-152.89	13.38	-152.89	0.00	0.00	0.00
5,300.00	0.00	0.00	5,294.80	-152.89	13.38	-152.89	0.00	0.00	0.00
5,400.00	0.00	0.00	5,394.80	-152.89	13.38	-152.89	0.00	0.00	0.00
5,500.00	0.00	0.00	5,494.80	-152.89	13.38	-152.89	0.00	0.00	0.00
5,600.00	0.00	0.00	5,594.80	-152.89	13.38	-152.89	0.00	0.00	0.00
5,700.00	0.00	0.00	5,694.80	-152.89	13.38	-152.89	0.00	0.00	0.00
5,800.00	0.00	0.00	5,794.80	-152.89	13.38	-152.89	0.00	0.00	0.00
5,900.00	0.00	0.00	5,894.80	-152.89	13.38	-152.89	0.00	0.00	0.00
6,000.00	0.00	0.00	5,994.80	-152.89	13.38	-152.89	0.00	0.00	0.00
6,100.00	0.00	0.00	6,094.80	-152.89	13.38	-152.89	0.00	0.00	0.00
6,200.00	0.00	0.00	6,194.80	-152.89	13.38	-152.89	0.00	0.00	0.00
6,300.00	0.00	0.00	6,294.80	-152.89	13.38	-152.89	0.00	0.00	0.00
6,400.00	0.00	0.00	6,394.80	-152.89	13.38	-152.89	0.00	0.00	0.00
6,500.00	0.00	0.00	6,494.80	-152.89	13.38	-152.89	0.00	0.00	0.00
6,600.00	0.00	0.00	6,594.80	-152.89	13.38	-152.89	0.00	0.00	0.00
6,700.00	0.00	0.00	6,694.80	-152.89	13.38	-152.89	0.00	0.00	0.00
6,800.00	0.00	0.00	6,794.80	-152.89	13.38	-152.89	0.00	0.00	0.00
6,900.00	0.00	0.00	6,894.80	-152.89	13.38	-152.89	0.00	0.00	0.00
7,000.00	0.00	0.00	6,994.80	-152.89	13.38	-152.89	0.00	0.00	0.00
7,100.00	0.00	0.00	7,094.80	-152.89	13.38	-152.89	0.00	0.00	0.00
7,200.00	0.00	0.00	7,194.80	-152.89	13.38	-152.89	0.00	0.00	0.00
7,300.00	0.00	0.00	7,294.80	-152.89	13.38	-152.89	0.00	0.00	0.00
7,400.00	0.00	0.00	7,394.80	-152.89	13.38	-152.89	0.00	0.00	0.00
7,500.00	0.00	0.00	7,494.80	-152.89	13.38	-152.89	0.00	0.00	0.00
7,600.00	0.00	0.00	7,594.80	-152.89	13.38	-152.89	0.00	0.00	0.00
7,700.00	0.00	0.00	7,694.80	-152.89	13.38	-152.89	0.00	0.00	0.00
7,800.00	0.00	0.00	7,794.80	-152.89	13.38	-152.89	0.00	0.00	0.00
7,900.00	0.00	0.00	7,894.80	-152.89	13.38	-152.89	0.00	0.00	0.00
8,000.00	0.00	0.00	7,994.80	-152.89	13.38	-152.89	0.00	0.00	0.00
8,100.00	0.00	0.00	8,094.80	-152.89	13.38	-152.89	0.00	0.00	0.00
8,200.00	0.00	0.00	8,194.80	-152.89	13.38	-152.89	0.00	0.00	0.00
8,300.00	0.00	0.00	8,294.80	-152.89	13.38	-152.89	0.00	0.00	0.00
8,400.00	0.00	0.00	8,394.80	-152.89	13.38	-152.89	0.00	0.00	0.00
8,500.00	0.00	0.00	8,494.80	-152.89	13.38	-152.89	0.00	0.00	0.00
8,600.00	0.00	0.00	8,594.80	-152.89	13.38	-152.89	0.00	0.00	0.00
8,700.00	0.00	0.00	8,694.80	-152.89	13.38	-152.89	0.00	0.00	0.00
8,800.00	0.00	0.00	8,794.80	-152.89	13.38	-152.89	0.00	0.00	0.00
8,900.00	0.00	0.00	8,894.80	-152.89	13.38	-152.89	0.00	0.00	0.00
8,915.24	0.00	0.00	8,910.04	-152.89	13.38	-152.89	0.00	0.00	0.00
Curve KOP - Build 10.0° / 100									
8,950.00	3.48	359.95	8,944.78	-151.83	13.37	-151.83	10.00	10.00	0.00
9,000.00	8.48	359.95	8,994.49	-146.63	13.37	-146.63	10.00	10.00	0.00
9,050.00	13.48	359.95	9,043.56	-137.11	13.36	-137.11	10.00	10.00	0.00
9,100.00	18.48	359.95	9,091.62	-123.35	13.35	-123.35	10.00	10.00	0.00
9,150.00	23.48	359.95	9,138.29	-105.46	13.34	-105.46	10.00	10.00	0.00
9,200.00	28.48	359.95	9,183.22	-83.57	13.32	-83.57	10.00	10.00	0.00
9,250.00	33.48	359.95	9,226.08	-57.84	13.30	-57.84	10.00	10.00	0.00
9,300.00	38.48	359.95	9,266.53	-28.48	13.28	-28.48	10.00	10.00	0.00
9,350.00	43.48	359.95	9,304.27	4.30	13.25	4.30	10.00	10.00	0.00
9,400.00	48.48	359.95	9,339.00	40.24	13.22	40.24	10.00	10.00	0.00
9,450.00	53.48	359.95	9,370.48	79.07	13.19	79.07	10.00	10.00	0.00

Planning Report

Database	Midland District	Local Coordinates Reference	Well WA #5H
Company	Marathon Oil Permian, LLC	TVD Reference	KB = 25' @ 3112.00usft (Precision 594)
Project	Eddy County, NM (NAD27)	MDR Reference	KB = 25' @ 3112.00usft (Precision 594)
Site	Trebuchet Fee 23-28-19	North Reference	Grid
Well	WA #5H	Survey Method	Minimum Curvature
Wellbore	OH		
Diagram	Plan #1		

Planned Survey										
Measured Depth (usft)	inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	TVD (usft)	Borehole Angle (°)	Vertical Depth (usft)	Dogleg Rate (1/100usft)	Build Rate (1/100usft)	Turn Rate (1/100usft)	
9,499.61	58.44	359.95	9,398.24	120.17	13.16	120.17	10.00	10.00	0.00	
FTP(TF/WA#5H)										
9,500.00	58.48	359.95	9,398.44	120.50	13.16	120.50	10.00	10.00	0.00	
9,550.00	63.48	359.95	9,422.70	164.21	13.12	164.21	10.00	10.00	0.00	
9,600.00	68.48	359.95	9,443.04	209.86	13.08	209.86	10.00	10.00	0.00	
9,650.00	73.48	359.95	9,459.34	257.11	13.05	257.11	10.00	10.00	0.00	
9,700.00	78.48	359.95	9,471.45	305.61	13.01	305.61	10.00	10.00	0.00	
9,750.00	83.48	359.95	9,479.29	354.97	12.97	354.97	10.00	10.00	0.00	
9,800.00	88.48	359.95	9,482.80	404.83	12.93	404.83	10.00	10.00	0.00	
9,815.24	90.00	359.95	9,483.00	420.07	12.92	420.07	10.00	10.00	0.00	
EOC - HOLD										
9,900.00	90.00	359.95	9,483.00	504.83	12.85	504.83	0.00	0.00	0.00	
10,000.00	90.00	359.95	9,483.00	604.83	12.77	604.83	0.00	0.00	0.00	
10,100.00	90.00	359.95	9,483.00	704.83	12.69	704.83	0.00	0.00	0.00	
10,200.00	90.00	359.95	9,483.00	804.83	12.61	804.83	0.00	0.00	0.00	
10,300.00	90.00	359.95	9,483.00	904.83	12.53	904.83	0.00	0.00	0.00	
10,400.00	90.00	359.95	9,483.00	1,004.83	12.45	1,004.83	0.00	0.00	0.00	
10,500.00	90.00	359.95	9,483.00	1,104.83	12.36	1,104.83	0.00	0.00	0.00	
10,600.00	90.00	359.95	9,483.00	1,204.83	12.28	1,204.83	0.00	0.00	0.00	
10,700.00	90.00	359.95	9,483.00	1,304.83	12.20	1,304.83	0.00	0.00	0.00	
10,800.00	90.00	359.95	9,483.00	1,404.83	12.12	1,404.83	0.00	0.00	0.00	
10,900.00	90.00	359.95	9,483.00	1,504.83	12.04	1,504.83	0.00	0.00	0.00	
11,000.00	90.00	359.95	9,483.00	1,604.83	11.96	1,604.83	0.00	0.00	0.00	
11,100.00	90.00	359.95	9,483.00	1,704.83	11.88	1,704.83	0.00	0.00	0.00	
11,200.00	90.00	359.95	9,483.00	1,804.83	11.80	1,804.83	0.00	0.00	0.00	
11,300.00	90.00	359.95	9,483.00	1,904.83	11.72	1,904.83	0.00	0.00	0.00	
11,400.00	90.00	359.95	9,483.00	2,004.83	11.64	2,004.83	0.00	0.00	0.00	
11,500.00	90.00	359.95	9,483.00	2,104.83	11.56	2,104.83	0.00	0.00	0.00	
11,600.00	90.00	359.95	9,483.00	2,204.83	11.48	2,204.83	0.00	0.00	0.00	
11,700.00	90.00	359.95	9,483.00	2,304.83	11.40	2,304.83	0.00	0.00	0.00	
11,800.00	90.00	359.95	9,483.00	2,404.83	11.32	2,404.83	0.00	0.00	0.00	
11,900.00	90.00	359.95	9,483.00	2,504.83	11.24	2,504.83	0.00	0.00	0.00	
12,000.00	90.00	359.95	9,483.00	2,604.83	11.16	2,604.83	0.00	0.00	0.00	
12,100.00	90.00	359.95	9,483.00	2,704.83	11.08	2,704.83	0.00	0.00	0.00	
12,200.00	90.00	359.95	9,483.00	2,804.83	11.00	2,804.83	0.00	0.00	0.00	
12,300.00	90.00	359.95	9,483.00	2,904.83	10.92	2,904.83	0.00	0.00	0.00	
12,400.00	90.00	359.95	9,483.00	3,004.83	10.84	3,004.83	0.00	0.00	0.00	
12,500.00	90.00	359.95	9,483.00	3,104.83	10.76	3,104.83	0.00	0.00	0.00	
12,600.00	90.00	359.95	9,483.00	3,204.83	10.68	3,204.83	0.00	0.00	0.00	
12,700.00	90.00	359.95	9,483.00	3,304.83	10.60	3,304.83	0.00	0.00	0.00	
12,800.00	90.00	359.95	9,483.00	3,404.83	10.52	3,404.83	0.00	0.00	0.00	
12,900.00	90.00	359.95	9,483.00	3,504.83	10.44	3,504.83	0.00	0.00	0.00	
13,000.00	90.00	359.95	9,483.00	3,604.83	10.36	3,604.83	0.00	0.00	0.00	
13,100.00	90.00	359.95	9,483.00	3,704.83	10.28	3,704.83	0.00	0.00	0.00	
13,200.00	90.00	359.95	9,483.00	3,804.83	10.19	3,804.83	0.00	0.00	0.00	
13,300.00	90.00	359.95	9,483.00	3,904.83	10.11	3,904.83	0.00	0.00	0.00	
13,400.00	90.00	359.95	9,483.00	4,004.83	10.03	4,004.83	0.00	0.00	0.00	
13,500.00	90.00	359.95	9,483.00	4,104.83	9.95	4,104.83	0.00	0.00	0.00	
13,600.00	90.00	359.95	9,483.00	4,204.83	9.87	4,204.83	0.00	0.00	0.00	
13,700.00	90.00	359.95	9,483.00	4,304.83	9.79	4,304.83	0.00	0.00	0.00	
13,800.00	90.00	359.95	9,483.00	4,404.83	9.71	4,404.83	0.00	0.00	0.00	
13,900.00	90.00	359.95	9,483.00	4,504.83	9.63	4,504.83	0.00	0.00	0.00	
14,000.00	90.00	359.95	9,483.00	4,604.83	9.55	4,604.83	0.00	0.00	0.00	
14,100.00	90.00	359.95	9,483.00	4,704.83	9.47	4,704.83	0.00	0.00	0.00	

Planning Report

Database:	Midland District	Local Government:	Well WA #5H
Company:	Marathon Oil Permian, LLC	TVD Reference:	KB = 25' @ 3112.00usft (Precision 594)
Project:	Eddy County, NM (NAD27)	MD Reference:	KB = 25' @ 3112.00usft (Precision 594)
SID:	Trebuchet Fee 23-28-19	North Reference:	Grid
Well:	WA #5H	Survey Reference:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Slurry									
Measured Depth (usft)	Inclination (°)	Asimuth (bearing)	MD (usft)	W- (usft)	W-E (usft)	North (usft)	Depth (usft)	Build (usft)	Min (usft)
14,113.14	90.00	359.95	9,483.00	4,717.97	9.46	4,717.97	0.00	0.00	0.00
TD at 14113.14 - BHL[TF/WA#5H]									

Design Targets									
Target Name	MD (usft)	MD (usft)	TVD (usft)	W- (usft)	W-E (usft)	North (usft)	Depth (usft)	Latitude	Longitude
BHL[TF/WA#5H]	0.00	0.00	9,483.00	4,717.97	9.46	471,814.36	562,682.74	32° 17' 49.096 N	104° 7' 49.696 W
- plan hits target center									
- Point									
FTP[TF/WA#5H]	0.00	0.00	9,483.00	62.95	13.88	467,159.74	562,687.16	32° 17' 3.033 N	104° 7' 49.747 W
- plan misses target center by 102.27usft at 9499.61usft MD (9398.24 TVD, 120.17 N, 13.16 E)									
- Point									

Plan Annotations				
MD (usft)	Depth (usft)	W- (usft)	W-E (usft)	Comment
2,000.00	2,000.00	0.00	0.00	KOP - Build 2.0° / 100
2,200.00	2,199.84	-6.95	0.61	EOB - HOLD
4,200.00	4,194.97	-145.93	12.77	DROP 2.0° / 100
4,400.00	4,394.80	-152.89	13.38	EOD - HOLD
8,915.24	8,910.04	-152.89	13.38	Curve KOP - Build 10.0° / 100
9,815.24	9,483.00	420.07	12.92	EOC - HOLD
14,113.14	9,483.00	4,717.97	9.46	TD at 14113.14

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	² Pool Code 98220	³ Pool Name PURPLE SAGE; WOLFCAMP
⁴ Property Code	⁵ Property Name TREBUCHET FEE 23-28-19 WA	⁶ Well Number 5H
⁷ OGRID No. 372098	⁸ Operator Name MARATHON OIL PERMIAN LLC	⁹ Elevation 3087

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
N	19	T23S	R28E		267	SOUTH	1311	WEST	EDDY

¹¹ Bottom Hole Location If Different From Surface

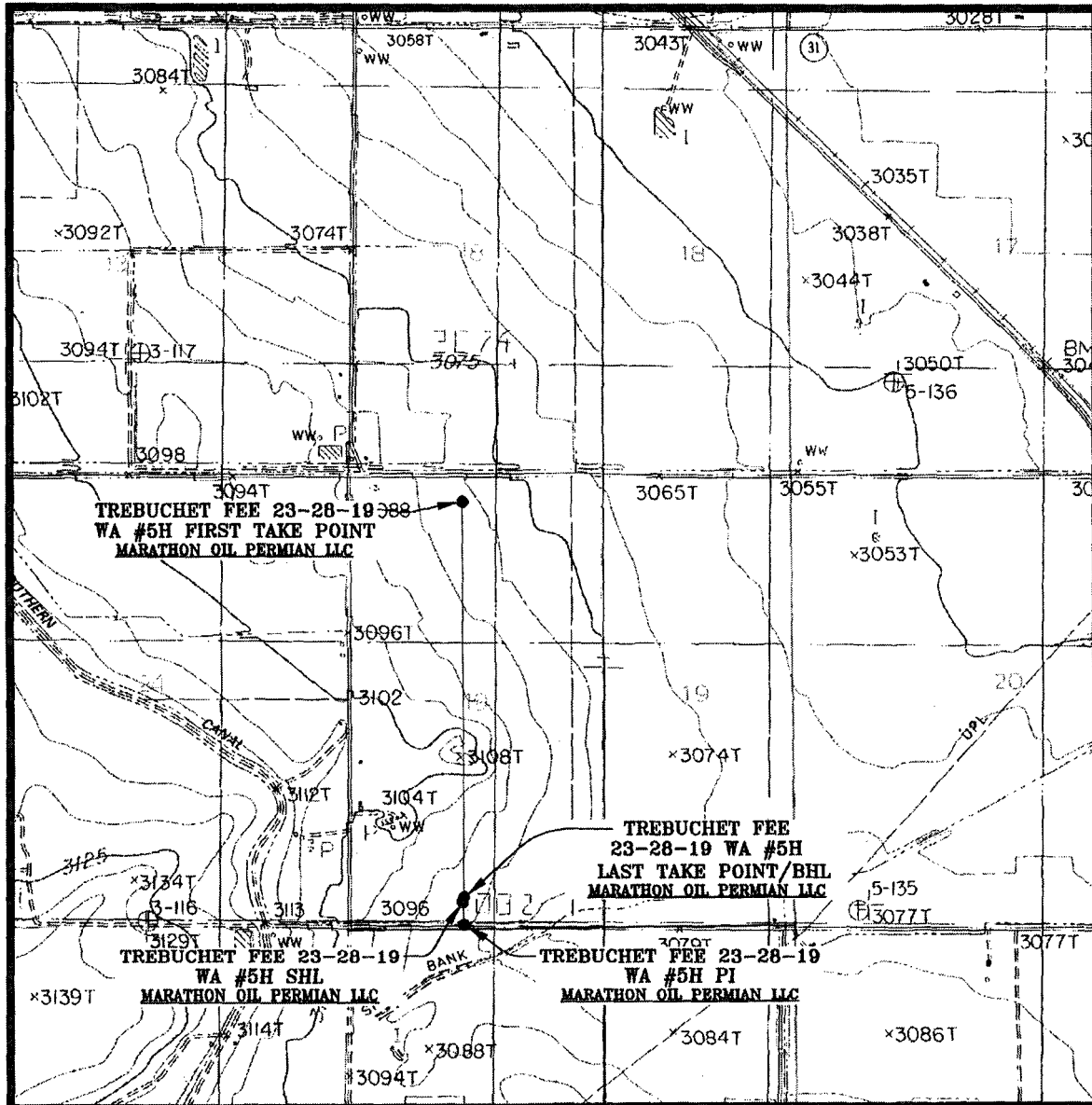
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D (LOT 1)	19	T23S	R28E		330	NORTH	1323	WEST	EDDY

¹² Dedicated Acres 318.34	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.

¹⁶ SECTION 13 SECTION 24 1323' A B LAST TAKE/BHL 330' 330' R-27-E R-28-E 330' 1325' 1311' SECTION 24 SECTION 25 267' 330' PI CALLED 318.34 ACRE PRODUCING AREA SHL FIRST TAKE CORNER COORDINATES NAD 83, SPCS NM EAST A - Y: 472198.23' / X: 602542.35' B - Y: 472208.49' / X: 605187.51' C - Y: 466881.59' / X: 605195.28' D - Y: 466895.65' / X: 602544.92'		SECTION 18 SECTION 19 LAST TAKE POINT/BOTTOM HOLE LOCATION 330' FSL 1323' FWL NAD 83, SPCS NM EAST X:603865.26' / Y:471873.38' LAT:32.29709125N / LON:104.13096806W NAD 27, SPCS NM EAST X:562682.74' / Y:471814.36' LAT:32.29697121N / LON:104.13047104W FIRST TAKE POINT 330' FSL 1325' FWL NAD 83, SPCS NM EAST X:603855.91' / Y:467155.70' LAT:32.2842298N / LON:104.13098182W NAD 27, SPCS NM EAST X:562687.16' / Y:467159.74' LAT:32.28419589N / LON:104.13048528W SURFACE HOLE LOCATION 267' FSL 1311' FWL NAD 83, SPCS NM EAST X:603855.91' / Y:467155.70' LAT:32.28412298N / LON:104.13102716W NAD 27, SPCS NM EAST X:562673.28' / Y:467096.80' LAT:32.28400285N / LON:104.13053063W SECTION 19 SECTION 30 CORNER COORDINATES NAD 27, SPCS NM EAST A - Y: 472139.21' / X: 561359.86' B - Y: 472149.44' / X: 564004.98' C - Y: 466822.68' / X: 564012.63' D - Y: 466836.77' / X: 561362.31'		SECTION 17 SECTION 20 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. Signature <i>Melissa Szudera</i> Date 02/06/2018 Printed Name Melissa Szudera E-mail Address mszudera@marathonoil.com 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. DECEMBER 15, 2017 Date of Survey Signature and Seal of Professional Surveyor Certificate Number LLOYD P. SHORT 21653 LLOYD P. SHORT NEW MEXICO 21653 PROFESSIONAL SURVEYOR	
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LOCATION VERIFICATION MAP

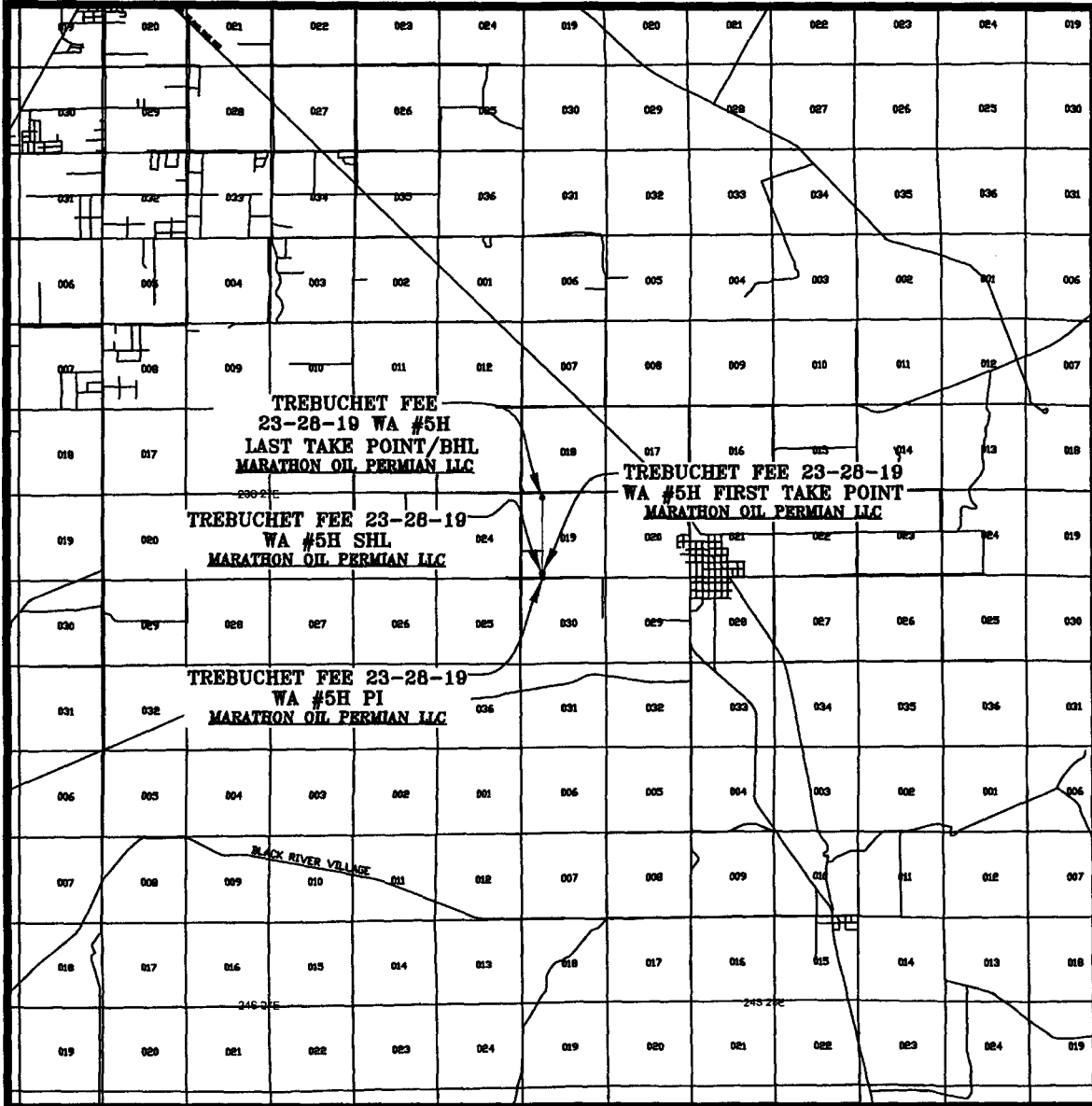


SEC. 19 TWP. 23-S RGE. 28-E
 SURVEY: N.M.P.M.
 COUNTY: EDDY
 DESCRIPTION: 267' FSL & 1311' FWL
 ELEVATION: 3087'
 OPERATOR: MARATHON OIL PERMIAN LLC
 LEASE: TREBUCHET FEE 23-28-19
 U.S.G.S. TOPOGRAPHIC MAP: OTIS, N.M.

SCALE: 1" = 2000'
 CONTOUR INTERVAL = 5'

PREPARED BY:
 R-SQUARED GLOBAL, LLC
 1309 LOUISVILLE AVENUE, MONROE, LA 71201
 318-323-6900 OFFICE
 JOB No. R3796_002

VICINITY MAP



SEC. 19 TWP. 23-S RGE. 28-E
SURVEY: N.M.P.M.
COUNTY: EDDY
DESCRIPTION: 267' FSL & 1311' FWL
ELEVATION: 3087'
OPERATOR: MARATHON OIL PERMIAN LLC
LEASE: TREBUCHET FEE 23-28-19
U.S.G.S. TOPOGRAPHIC MAP: OTIS, N.M.

SCALE: 1" = 2 MILES

PREPARED BY:
R-SQUARED GLOBAL, LLC
1309 LOUISVILLE AVENUE, MONROE, LA 71201
318-323-6900 OFFICE
JOB No. R3796_002