

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Carlsbad Field Office
OCD Artesia
Permit No. NMNM86024
Expires: January 31, 2018

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on page 2		6. If Indian, Allottee or Tribe Name
1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		7. If Unit or CA/Agreement, Name and/or No.
2. Name of Operator MARATHON OIL PERMIAN LLC Contact: MELISSA SZUDERA E-Mail: mszudera@marathonoil.com		8. Well Name and No. BLUE STEEL 21 WXY FED COM 12H
3a. Address 5555 SAN FELIPE ST HOUSTON, TX 77056	3b. Phone No. (include area code) Ph: 713-296-3179	9. API Well No. 30-015-45896-00-X1
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 28 T23S R29E NENE 1219FNL 967FEL 32.279873 N Lat, 103.984337 W Lon		10. Field and Pool or Exploratory Area PURPLE SAGE-WOLFCAMP (GAS)
		11. County or Parish, State EDDY COUNTY, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other Change to Original APD
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

Marathon Oil respectfully requests to move this SHL of this well from 967' FEL to 997' FEL. See attached Revised C-102 Plat & Directional Drill Plan.

RECEIVED

JAN 09 2020

EMNRD-OCD ARTESIA

Engineering okay - DR

No new surface disturbance.

Approved CCR 11/26/2019. DOI-BLM-NM-P020-2019-0340-FA. Same COA apply.

14. I hereby certify that the foregoing is true and correct. Electronic Submission #492863 verified by the BLM Well Information System For MARATHON OIL PERMIAN LLC, sent to the Carlsbad Committed to AFMSS for processing by PRISCILLA PEREZ on 11/20/2019 (20PP0493SE)	
Name (Printed/Typed) MELISSA SZUDERA	Title REGULATORY COMPLIANCE REP
Signature (Electronic Submission)	Date 11/19/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <u>[Signature]</u>	Title <u>Acting</u>	Date <u>11/28/19</u>
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office <u>OKO</u>

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

1/29/20 KS



Marathon Oil
Eddy County, NM
Blue Steel Fed Com 23-29
WXY #12H
Prelim Plan B
GL: 2998' + KB: 25' (PD594)

US State Plane 1927 (Exact solution)
NAD 1927 (NADCON CONUS)
Clarke 1866
New Mexico East 3001
Mean Sea Level

RKB Elevation: Well @ 3023.00usft (GL: 2998' + KB: 25' (PD594))

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	465666.71	607979.00	32.279751	-103.983944	

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	VSect
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	1800.00	0.00	0.00	1800.00	0.00	0.00	0.00	0.00
3	2450.00	13.00	332.72	2444.44	65.26	-33.65	-2.00	65.22
4	8373.29	13.00	332.72	8215.92	1249.55	-644.29	0.00	1248.76
5	9023.29	0.00	0.00	8860.35	1314.81	-677.94	2.00	1313.98
6	9661.94	0.00	0.00	9499.00	1314.81	-677.94	0.00	1313.98
7	10561.94	90.00	0.07	10071.95	1887.76	-677.28	10.00	1886.94
8	20199.42	90.00	0.07	10072.00	11525.24	-666.20	0.00	11524.42

WELLBORE-TARGET-DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
[BlueSteelWXY#12H]FTP	0.00	1544.81	-678.13	467211.52	607300.67
[BlueSteelWXY#12H]KOP	9499.00	1314.81	-677.94	466981.52	607301.06
[BlueSteelWXY#12H]TP/BHL	10072.00	11525.24	-666.20	477191.95	607312.80



PRODIRECTIONAL

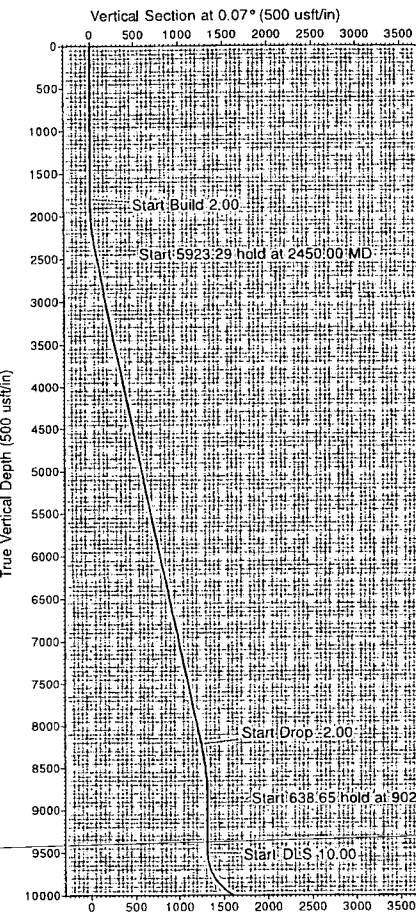


Azimuths to Grid North
True North: -0.19°
Magnetic North: 6.90°
Magnetic Field
Strength: 47994.5nT
Dip Angle: 60.95°
Date: 9/25/2018
Model: HDGM

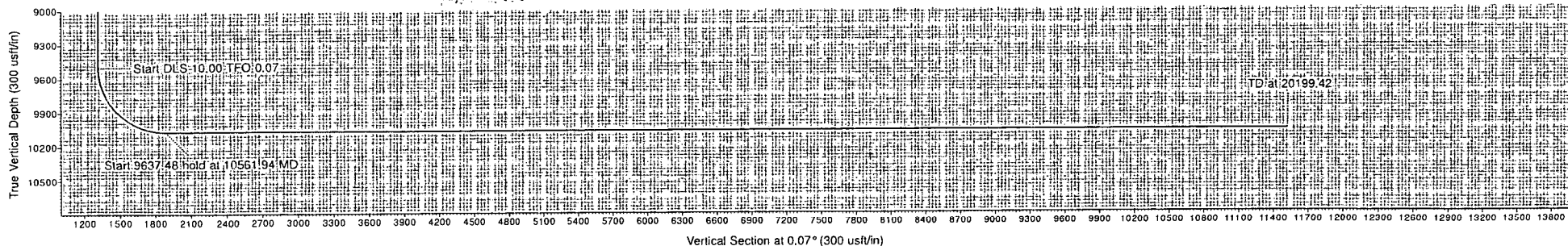
Azimuth Corrections

Total Magnetic Corr. (M to G): 6.90°

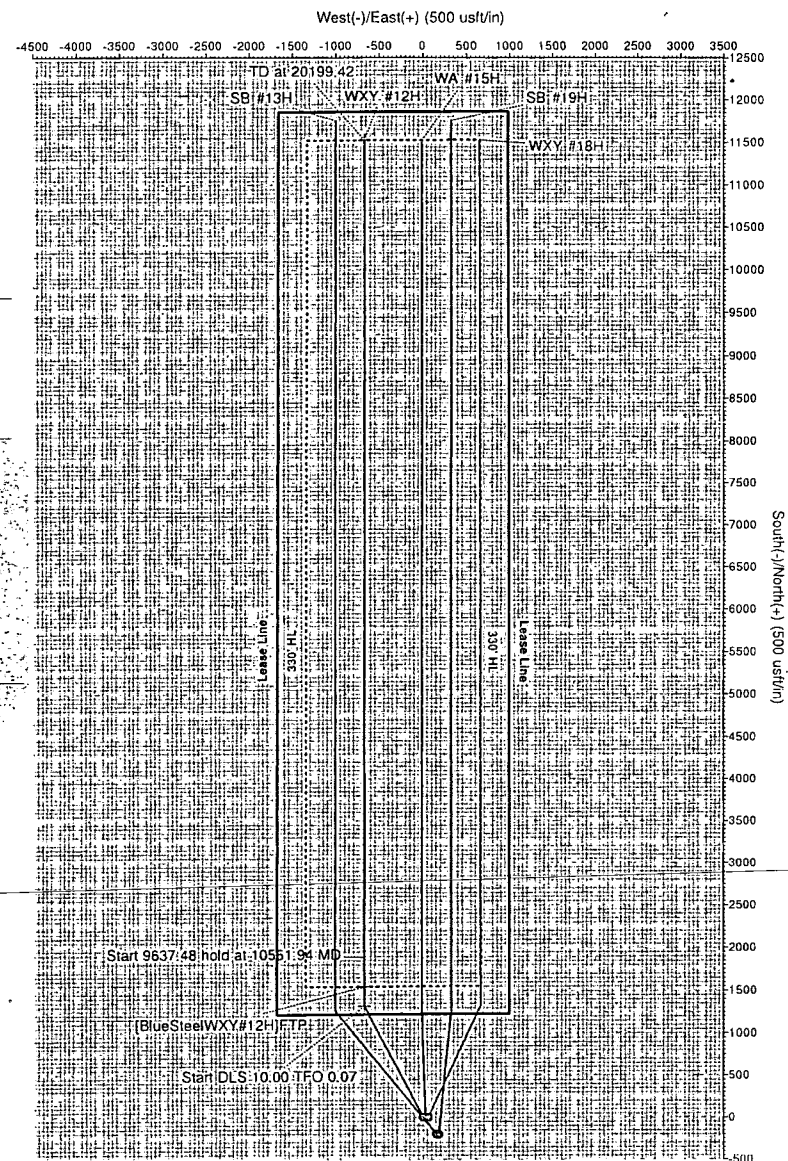
Declination (M to T): 7.08° East



Target Line: 10072' TVD @ 0' VS: 90° INC



36" x 48"



Database Company:	WellPlanner1 Marathon Oil	Local Co-ordinate Reference:	Well WXY #12H
Project:	Eddy County, NM	TVD Reference:	Well @ 3023.00usft (GL: 2998' + KB: 25' (PD594))
Site:	Blue Steel Fed Com 23-29-21	MD Reference:	Well @ 3023.00usft (GL: 2998' + KB: 25' (PD594))
Well:	WXY #12H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Prelim Plan B		

Project:	Eddy County, NM		
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		

Site:	Blue Steel Fed Com 23-29-21		
Site Position:		Northing:	465,666.39 usft
From:	Map	Easting:	608,039.11 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.279750
		Longitude:	-103.983750
		Grid Convergence:	0.19 °

Well:	WXY #12H		
Well Position	+N-S	0.32 usft	Northing: 465,666.71 usft
	+E-W	-60.11 usft	Easting: 607,979.00 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	Latitude: 32.279751
			Longitude: -103.983944
			Ground Level: 2,998.00 usft

Wellbore:	OH		
Magnetics	Model Name	Sample Date	Declination
	HDGM	9/25/2018	7.08
			Dip Angle
			60.05
			Field Strength
			47,994.50

Design:	Prelim Plan B		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth: 0.00
Vertical Section	Depth From (TVD)	+N-S	+E-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction
			(°)
			0.07

Plan/Survey Tool Program:	Date: 11/18/2019		
Depth From	Depth To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
1	0.00	20,199.42 Prelim Plan B (OH)	MWD+IFR1
			OWSG MWD + IFR1
			Remarks

Database	WellPlanner1	Local Co-ordinate Reference	Well WXY #12H
Company	Marathon Oil	TVD Reference	Well @ 3023.00usft (GL: 2998' + KB: 25' (PD594))
Project	Eddy County, NM	MD Reference	Well @ 3023.00usft (GL: 2998' + KB: 25' (PD594))
Site	Blue Steel Fed Com 23-29-21	North Reference	Grid
Well	WXY #12H	Survey Calculation Method	Minimum Curvature
Wellbore	OH		
Design	Prelim Plan B		

Plan Sections:										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/S (usft)	+E/W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	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	
2,450.00	13.00	332.72	2,444.44	65.26	-33.65	2.00	2.00	0.00	332.72	
8,373.29	13.00	332.72	8,215.92	1,249.55	-644.29	0.00	0.00	0.00	0.00	
9,023.29	0.00	0.00	8,860.35	1,314.81	-677.94	2.00	-2.00	0.00	180.00	
9,661.94	0.00	0.00	9,499.00	1,314.81	-677.94	0.00	0.00	0.00	0.00	[BlueSteelWXY#12H]
10,561.94	90.00	0.07	10,071.96	1,887.76	-677.28	10.00	10.00	0.01	0.07	
20,199.42	90.00	0.07	10,072.00	11,525.24	-666.20	0.00	0.00	0.00	0.00	[BlueSteelWXY#12H]



Marathon Oil

Professional Directional Planning Report



Database:	WellPlanner1	Local Co-ordinate Reference:	Well WXY #12H
Company:	Marathon Oil	TVD Reference:	Well @ 3023.00usft (GL: 2998' + KB: 25' (PD594))
Project:	Eddy County, NM	MD Reference:	Well @ 3023.00usft (GL: 2998' + KB: 25' (PD594))
Site:	Blue Steel Fed Com 23-29-21	North Reference:	Grid
Well:	WXY #12H	Survey/Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim Plan B		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	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
[BlueSteelWXY#12H]FTP									
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	2.00	332.72	1,899.98	1.55	-0.80	1.55	2.00	2.00	0.00
2,000.00	4.00	332.72	1,999.84	6.20	-3.20	6.20	2.00	2.00	0.00
2,100.00	6.00	332.72	2,099.45	13.95	-7.19	13.94	2.00	2.00	0.00
2,200.00	8.00	332.72	2,198.70	24.78	-12.78	24.76	2.00	2.00	0.00
2,300.00	10.00	332.72	2,297.47	38.68	-19.95	38.66	2.00	2.00	0.00
2,400.00	12.00	332.72	2,395.62	55.64	-28.69	55.61	2.00	2.00	0.00
2,450.00	13.00	332.72	2,444.44	65.26	-33.65	65.22	2.00	2.00	0.00
2,500.00	13.00	332.72	2,493.16	75.26	-38.80	75.21	0.00	0.00	0.00
2,600.00	13.00	332.72	2,590.59	95.25	-49.11	95.19	0.00	0.00	0.00
2,700.00	13.00	332.72	2,688.03	115.24	-59.42	115.17	0.00	0.00	0.00
2,800.00	13.00	332.72	2,785.47	135.24	-69.73	135.15	0.00	0.00	0.00
2,900.00	13.00	332.72	2,882.90	155.23	-80.04	155.13	0.00	0.00	0.00
3,000.00	13.00	332.72	2,980.34	175.23	-90.35	175.12	0.00	0.00	0.00
3,100.00	13.00	332.72	3,077.78	195.22	-100.66	195.10	0.00	0.00	0.00
3,200.00	13.00	332.72	3,175.21	215.21	-110.97	215.08	0.00	0.00	0.00
3,300.00	13.00	332.72	3,272.65	235.21	-121.28	235.06	0.00	0.00	0.00
3,400.00	13.00	332.72	3,370.09	255.20	-131.59	255.04	0.00	0.00	0.00
3,500.00	13.00	332.72	3,467.53	275.19	-141.90	275.02	0.00	0.00	0.00
3,600.00	13.00	332.72	3,564.96	295.19	-152.20	295.00	0.00	0.00	0.00
3,700.00	13.00	332.72	3,662.40	315.18	-162.51	314.98	0.00	0.00	0.00
3,800.00	13.00	332.72	3,759.84	335.18	-172.82	334.96	0.00	0.00	0.00
3,900.00	13.00	332.72	3,857.27	355.17	-183.13	354.95	0.00	0.00	0.00
4,000.00	13.00	332.72	3,954.71	375.16	-193.44	374.93	0.00	0.00	0.00
4,100.00	13.00	332.72	4,052.15	395.16	-203.75	394.91	0.00	0.00	0.00
4,200.00	13.00	332.72	4,149.59	415.15	-214.06	414.89	0.00	0.00	0.00
4,300.00	13.00	332.72	4,247.02	435.14	-224.37	434.87	0.00	0.00	0.00
4,400.00	13.00	332.72	4,344.46	455.14	-234.68	454.85	0.00	0.00	0.00
4,500.00	13.00	332.72	4,441.90	475.13	-244.99	474.83	0.00	0.00	0.00
4,600.00	13.00	332.72	4,539.33	495.13	-255.30	494.81	0.00	0.00	0.00
4,700.00	13.00	332.72	4,636.77	515.12	-265.61	514.80	0.00	0.00	0.00
4,800.00	13.00	332.72	4,734.21	535.11	-275.91	534.78	0.00	0.00	0.00
4,900.00	13.00	332.72	4,831.64	555.11	-286.22	554.76	0.00	0.00	0.00

Database Company	WellPlanner1 Marathon Oil	Local Co-ordinate Reference	Well WXY #12H
Project	Eddy County, NM	TVD Reference	Well @ 3023.00usft (GL: 2998' + KB: 25' (PD594))
Site	Blue Steel Fed Com 23-29-21	MDI Reference	Well @ 3023.00usft (GL: 2998' + KB: 25' (PD594))
Well	WXY #12H	North Reference	Grid
Wellbore Design	OH Prelim Plan B	Survey Calculation Method	Minimum Curvature

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,000.00	13.00	332.72	4,929.08	575.10	-296.53	574.74	0.00	0.00	0.00	
5,100.00	13.00	332.72	5,026.52	595.10	-306.84	594.72	0.00	0.00	0.00	
5,200.00	13.00	332.72	5,123.96	615.09	-317.15	614.70	0.00	0.00	0.00	
5,300.00	13.00	332.72	5,221.39	635.08	-327.46	634.68	0.00	0.00	0.00	
5,400.00	13.00	332.72	5,318.83	655.08	-337.77	654.66	0.00	0.00	0.00	
5,500.00	13.00	332.72	5,416.27	675.07	-348.08	674.64	0.00	0.00	0.00	
5,600.00	13.00	332.72	5,513.70	695.06	-358.39	694.63	0.00	0.00	0.00	
5,700.00	13.00	332.72	5,611.14	715.06	-368.70	714.61	0.00	0.00	0.00	
5,800.00	13.00	332.72	5,708.58	735.05	-379.01	734.59	0.00	0.00	0.00	
5,900.00	13.00	332.72	5,806.01	755.05	-389.32	754.57	0.00	0.00	0.00	
6,000.00	13.00	332.72	5,903.45	775.04	-399.62	774.55	0.00	0.00	0.00	
6,100.00	13.00	332.72	6,000.89	795.03	-409.93	794.53	0.00	0.00	0.00	
6,200.00	13.00	332.72	6,098.33	815.03	-420.24	814.51	0.00	0.00	0.00	
6,300.00	13.00	332.72	6,195.76	835.02	-430.55	834.49	0.00	0.00	0.00	
6,400.00	13.00	332.72	6,293.20	855.01	-440.86	854.47	0.00	0.00	0.00	
6,500.00	13.00	332.72	6,390.64	875.01	-451.17	874.46	0.00	0.00	0.00	
6,600.00	13.00	332.72	6,488.07	895.00	-461.48	894.44	0.00	0.00	0.00	
6,700.00	13.00	332.72	6,585.51	915.00	-471.79	914.42	0.00	0.00	0.00	
6,800.00	13.00	332.72	6,682.95	934.99	-482.10	934.40	0.00	0.00	0.00	
6,900.00	13.00	332.72	6,780.38	954.98	-492.41	954.38	0.00	0.00	0.00	
7,000.00	13.00	332.72	6,877.82	974.98	-502.72	974.36	0.00	0.00	0.00	
7,100.00	13.00	332.72	6,975.26	994.97	-513.02	994.34	0.00	0.00	0.00	
7,200.00	13.00	332.72	7,072.70	1,014.96	-523.33	1,014.32	0.00	0.00	0.00	
7,300.00	13.00	332.72	7,170.13	1,034.96	-533.64	1,034.31	0.00	0.00	0.00	
7,400.00	13.00	332.72	7,267.57	1,054.95	-543.95	1,054.29	0.00	0.00	0.00	
7,500.00	13.00	332.72	7,365.01	1,074.95	-554.26	1,074.27	0.00	0.00	0.00	
7,600.00	13.00	332.72	7,462.44	1,094.94	-564.57	1,094.25	0.00	0.00	0.00	
7,700.00	13.00	332.72	7,559.88	1,114.93	-574.88	1,114.23	0.00	0.00	0.00	
7,800.00	13.00	332.72	7,657.32	1,134.93	-585.19	1,134.21	0.00	0.00	0.00	
7,900.00	13.00	332.72	7,754.75	1,154.92	-595.50	1,154.19	0.00	0.00	0.00	
8,000.00	13.00	332.72	7,852.19	1,174.91	-605.81	1,174.17	0.00	0.00	0.00	
8,100.00	13.00	332.72	7,949.63	1,194.91	-616.12	1,194.15	0.00	0.00	0.00	
8,200.00	13.00	332.72	8,047.07	1,214.90	-626.43	1,214.14	0.00	0.00	0.00	
8,300.00	13.00	332.72	8,144.50	1,234.90	-636.73	1,234.12	0.00	0.00	0.00	
8,373.29	13.00	332.72	8,215.92	1,249.55	-644.29	1,248.76	0.00	0.00	0.00	
8,400.00	12.47	332.72	8,241.97	1,254.78	-646.99	1,253.99	2.00	-2.00	0.00	
8,500.00	10.47	332.72	8,339.97	1,272.45	-656.10	1,271.65	2.00	-2.00	0.00	
8,600.00	8.47	332.72	8,438.60	1,287.07	-663.63	1,286.25	2.00	-2.00	0.00	
8,700.00	6.47	332.72	8,537.75	1,298.61	-669.59	1,297.79	2.00	-2.00	0.00	
8,800.00	4.47	332.72	8,637.29	1,307.08	-673.95	1,306.26	2.00	-2.00	0.00	
8,900.00	2.47	332.72	8,737.10	1,312.45	-676.72	1,311.62	2.00	-2.00	0.00	
9,000.00	0.47	332.72	8,837.06	1,314.73	-677.90	1,313.90	2.00	-2.00	0.00	
9,023.29	0.00	0.00	8,860.35	1,314.81	-677.94	1,313.98	2.00	-2.00	0.00	
9,100.00	0.00	0.00	8,937.06	1,314.81	-677.94	1,313.98	0.00	0.00	0.00	
9,200.00	0.00	0.00	9,037.06	1,314.81	-677.94	1,313.98	0.00	0.00	0.00	
9,300.00	0.00	0.00	9,137.06	1,314.81	-677.94	1,313.98	0.00	0.00	0.00	
9,400.00	0.00	0.00	9,237.06	1,314.81	-677.94	1,313.98	0.00	0.00	0.00	
9,500.00	0.00	0.00	9,337.06	1,314.81	-677.94	1,313.98	0.00	0.00	0.00	
9,600.00	0.00	0.00	9,437.06	1,314.81	-677.94	1,313.98	0.00	0.00	0.00	
9,661.94	0.00	0.00	9,499.00	1,314.81	-677.94	1,313.98	0.00	0.00	0.00	
[BlueSteelWXY#12H]KOP										
9,700.00	3.81	0.07	9,537.03	1,316.07	-677.94	1,315.24	10.00	10.00	0.00	

Database Company:	WellPlanner1 Marathon Oil	Local Co-ordinate Reference:	Well WXY #12H
Project:	Eddy County, NM	TVD Reference:	Well @ 3023.00usft (GL: 2998' + KB: 25' (PD594))
Site:	Blue Steel Fed Com 23-29-21	MD Reference:	Well @ 3023.00usft (GL: 2998' + KB: 25' (PD594))
Well:	WXY #12H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Prelim Plan B		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
9,750.00	8.81	0.07	9,586.71	1,321.56	-677.93	1,320.73	10.00	10.00	0.00	
9,800.00	13.81	0.07	9,635.73	1,331.36	-677.92	1,330.53	10.00	10.00	0.00	
9,850.00	18.81	0.07	9,683.70	1,345.40	-677.90	1,344.57	10.00	10.00	0.00	
9,900.00	23.81	0.07	9,730.27	1,363.56	-677.88	1,362.73	10.00	10.00	0.00	
9,950.00	28.81	0.07	9,775.08	1,385.71	-677.86	1,384.88	10.00	10.00	0.00	
10,000.00	33.81	0.07	9,817.78	1,411.68	-677.83	1,410.85	10.00	10.00	0.00	
10,050.00	38.81	0.07	9,858.07	1,441.28	-677.79	1,440.45	10.00	10.00	0.00	
10,100.00	43.81	0.07	9,895.61	1,474.27	-677.76	1,473.44	10.00	10.00	0.00	
10,150.00	48.81	0.07	9,930.14	1,510.41	-677.72	1,509.58	10.00	10.00	0.00	
10,200.00	53.81	0.07	9,961.39	1,549.42	-677.67	1,548.60	10.00	10.00	0.00	
10,250.00	58.81	0.07	9,989.12	1,591.01	-677.62	1,590.18	10.00	10.00	0.00	
10,300.00	63.81	0.07	10,013.12	1,634.86	-677.57	1,634.03	10.00	10.00	0.00	
10,350.00	68.81	0.07	10,033.20	1,680.63	-677.52	1,679.80	10.00	10.00	0.00	
10,400.00	73.81	0.07	10,049.22	1,727.98	-677.46	1,727.15	10.00	10.00	0.00	
10,450.00	78.81	0.07	10,061.06	1,776.54	-677.41	1,775.71	10.00	10.00	0.00	
10,500.00	83.81	0.07	10,068.61	1,825.95	-677.35	1,825.12	10.00	10.00	0.00	
10,550.00	88.81	0.07	10,071.83	1,875.83	-677.29	1,875.00	10.00	10.00	0.00	
10,561.94	90.00	0.07	10,071.96	1,887.76	-677.28	1,886.94	10.00	10.00	0.00	
10,600.00	90.00	0.07	10,071.96	1,925.83	-677.24	1,925.00	0.00	0.00	0.00	
10,700.00	90.00	0.07	10,071.96	2,025.83	-677.12	2,025.00	0.00	0.00	0.00	
10,800.00	90.00	0.07	10,071.96	2,125.83	-677.01	2,125.00	0.00	0.00	0.00	
10,900.00	90.00	0.07	10,071.96	2,225.83	-676.89	2,225.00	0.00	0.00	0.00	
11,000.00	90.00	0.07	10,071.96	2,325.83	-676.78	2,325.00	0.00	0.00	0.00	
11,100.00	90.00	0.07	10,071.96	2,425.83	-676.66	2,425.00	0.00	0.00	0.00	
11,200.00	90.00	0.07	10,071.96	2,525.83	-676.55	2,525.00	0.00	0.00	0.00	
11,300.00	90.00	0.07	10,071.96	2,625.83	-676.43	2,625.00	0.00	0.00	0.00	
11,400.00	90.00	0.07	10,071.96	2,725.83	-676.32	2,725.00	0.00	0.00	0.00	
11,500.00	90.00	0.07	10,071.96	2,825.83	-676.20	2,825.00	0.00	0.00	0.00	
11,600.00	90.00	0.07	10,071.96	2,925.83	-676.09	2,925.00	0.00	0.00	0.00	
11,700.00	90.00	0.07	10,071.96	3,025.83	-675.97	3,025.00	0.00	0.00	0.00	
11,800.00	90.00	0.07	10,071.96	3,125.83	-675.86	3,125.00	0.00	0.00	0.00	
11,900.00	90.00	0.07	10,071.96	3,225.83	-675.74	3,225.00	0.00	0.00	0.00	
12,000.00	90.00	0.07	10,071.96	3,325.83	-675.63	3,325.00	0.00	0.00	0.00	
12,100.00	90.00	0.07	10,071.96	3,425.83	-675.51	3,425.00	0.00	0.00	0.00	
12,200.00	90.00	0.07	10,071.97	3,525.83	-675.40	3,525.00	0.00	0.00	0.00	
12,300.00	90.00	0.07	10,071.97	3,625.83	-675.28	3,625.00	0.00	0.00	0.00	
12,400.00	90.00	0.07	10,071.97	3,725.83	-675.17	3,725.00	0.00	0.00	0.00	
12,500.00	90.00	0.07	10,071.97	3,825.83	-675.05	3,825.00	0.00	0.00	0.00	
12,600.00	90.00	0.07	10,071.97	3,925.83	-674.94	3,925.00	0.00	0.00	0.00	
12,700.00	90.00	0.07	10,071.97	4,025.83	-674.82	4,025.00	0.00	0.00	0.00	
12,800.00	90.00	0.07	10,071.97	4,125.83	-674.71	4,125.00	0.00	0.00	0.00	
12,900.00	90.00	0.07	10,071.97	4,225.83	-674.59	4,225.00	0.00	0.00	0.00	
13,000.00	90.00	0.07	10,071.97	4,325.83	-674.48	4,325.00	0.00	0.00	0.00	
13,100.00	90.00	0.07	10,071.97	4,425.83	-674.36	4,425.00	0.00	0.00	0.00	
13,200.00	90.00	0.07	10,071.97	4,525.83	-674.25	4,525.00	0.00	0.00	0.00	
13,300.00	90.00	0.07	10,071.97	4,625.83	-674.13	4,625.00	0.00	0.00	0.00	
13,400.00	90.00	0.07	10,071.97	4,725.83	-674.02	4,725.00	0.00	0.00	0.00	
13,500.00	90.00	0.07	10,071.97	4,825.83	-673.90	4,825.00	0.00	0.00	0.00	
13,600.00	90.00	0.07	10,071.97	4,925.83	-673.79	4,925.00	0.00	0.00	0.00	
13,700.00	90.00	0.07	10,071.97	5,025.83	-673.67	5,025.00	0.00	0.00	0.00	
13,800.00	90.00	0.07	10,071.97	5,125.83	-673.56	5,125.00	0.00	0.00	0.00	
13,900.00	90.00	0.07	10,071.97	5,225.83	-673.44	5,225.00	0.00	0.00	0.00	

Database:	WellPlanner1	Local Co-ordinate Reference:	Well WXY #12H
Company:	Marathon Oil	TVD Reference:	Well @ 3023.00usft (GL: 2998' + KB: 25' (PD594))
Project:	Eddy County, NM	MD Reference:	Well @ 3023.00usft (GL: 2998' + KB: 25' (PD594))
Site:	Blue Steel Fed Com 23-29-21	North Reference:	Grid
Well:	WXY #12H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim Plan B		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,000.00	90.00	0.07	10,071.97	5,325.83	-673.33	5,325.00	0.00	0.00	0.00
14,100.00	90.00	0.07	10,071.97	5,425.83	-673.21	5,425.00	0.00	0.00	0.00
14,200.00	90.00	0.07	10,071.97	5,525.83	-673.10	5,525.00	0.00	0.00	0.00
14,300.00	90.00	0.07	10,071.97	5,625.83	-672.98	5,625.00	0.00	0.00	0.00
14,400.00	90.00	0.07	10,071.97	5,725.83	-672.87	5,725.00	0.00	0.00	0.00
14,500.00	90.00	0.07	10,071.98	5,825.83	-672.75	5,825.00	0.00	0.00	0.00
14,600.00	90.00	0.07	10,071.98	5,925.83	-672.64	5,925.00	0.00	0.00	0.00
14,700.00	90.00	0.07	10,071.98	6,025.83	-672.52	6,025.00	0.00	0.00	0.00
14,800.00	90.00	0.07	10,071.98	6,125.83	-672.41	6,125.00	0.00	0.00	0.00
14,900.00	90.00	0.07	10,071.98	6,225.83	-672.29	6,225.00	0.00	0.00	0.00
15,000.00	90.00	0.07	10,071.98	6,325.83	-672.18	6,325.00	0.00	0.00	0.00
15,100.00	90.00	0.07	10,071.98	6,425.83	-672.06	6,425.00	0.00	0.00	0.00
15,200.00	90.00	0.07	10,071.98	6,525.83	-671.95	6,525.00	0.00	0.00	0.00
15,300.00	90.00	0.07	10,071.98	6,625.83	-671.83	6,625.00	0.00	0.00	0.00
15,400.00	90.00	0.07	10,071.98	6,725.83	-671.72	6,725.00	0.00	0.00	0.00
15,500.00	90.00	0.07	10,071.98	6,825.83	-671.60	6,825.00	0.00	0.00	0.00
15,600.00	90.00	0.07	10,071.98	6,925.83	-671.49	6,925.00	0.00	0.00	0.00
15,700.00	90.00	0.07	10,071.98	7,025.83	-671.37	7,025.00	0.00	0.00	0.00
15,800.00	90.00	0.07	10,071.98	7,125.83	-671.26	7,125.00	0.00	0.00	0.00
15,900.00	90.00	0.07	10,071.98	7,225.83	-671.14	7,225.00	0.00	0.00	0.00
16,000.00	90.00	0.07	10,071.98	7,325.82	-671.03	7,325.00	0.00	0.00	0.00
16,100.00	90.00	0.07	10,071.98	7,425.82	-670.91	7,425.00	0.00	0.00	0.00
16,200.00	90.00	0.07	10,071.98	7,525.82	-670.80	7,525.00	0.00	0.00	0.00
16,300.00	90.00	0.07	10,071.98	7,625.82	-670.68	7,625.00	0.00	0.00	0.00
16,400.00	90.00	0.07	10,071.98	7,725.82	-670.57	7,725.00	0.00	0.00	0.00
16,500.00	90.00	0.07	10,071.98	7,825.82	-670.45	7,825.00	0.00	0.00	0.00
16,600.00	90.00	0.07	10,071.98	7,925.82	-670.34	7,925.00	0.00	0.00	0.00
16,700.00	90.00	0.07	10,071.98	8,025.82	-670.22	8,025.00	0.00	0.00	0.00
16,800.00	90.00	0.07	10,071.99	8,125.82	-670.11	8,125.00	0.00	0.00	0.00
16,900.00	90.00	0.07	10,071.99	8,225.82	-669.99	8,225.00	0.00	0.00	0.00
17,000.00	90.00	0.07	10,071.99	8,325.82	-669.88	8,325.00	0.00	0.00	0.00
17,100.00	90.00	0.07	10,071.99	8,425.82	-669.76	8,425.00	0.00	0.00	0.00
17,200.00	90.00	0.07	10,071.99	8,525.82	-669.65	8,525.00	0.00	0.00	0.00
17,300.00	90.00	0.07	10,071.99	8,625.82	-669.53	8,625.00	0.00	0.00	0.00
17,400.00	90.00	0.07	10,071.99	8,725.82	-669.42	8,725.00	0.00	0.00	0.00
17,500.00	90.00	0.07	10,071.99	8,825.82	-669.30	8,825.00	0.00	0.00	0.00
17,600.00	90.00	0.07	10,071.99	8,925.82	-669.19	8,925.00	0.00	0.00	0.00
17,700.00	90.00	0.07	10,071.99	9,025.82	-669.07	9,025.00	0.00	0.00	0.00
17,800.00	90.00	0.07	10,071.99	9,125.82	-668.96	9,125.00	0.00	0.00	0.00
17,900.00	90.00	0.07	10,071.99	9,225.82	-668.84	9,225.00	0.00	0.00	0.00
18,000.00	90.00	0.07	10,071.99	9,325.82	-668.73	9,325.00	0.00	0.00	0.00
18,100.00	90.00	0.07	10,071.99	9,425.82	-668.61	9,425.00	0.00	0.00	0.00
18,200.00	90.00	0.07	10,071.99	9,525.82	-668.50	9,525.00	0.00	0.00	0.00
18,300.00	90.00	0.07	10,071.99	9,625.82	-668.38	9,625.00	0.00	0.00	0.00
18,400.00	90.00	0.07	10,071.99	9,725.82	-668.27	9,725.00	0.00	0.00	0.00
18,500.00	90.00	0.07	10,071.99	9,825.82	-668.15	9,825.00	0.00	0.00	0.00
18,600.00	90.00	0.07	10,071.99	9,925.82	-668.04	9,925.00	0.00	0.00	0.00
18,700.00	90.00	0.07	10,071.99	10,025.82	-667.92	10,025.00	0.00	0.00	0.00
18,800.00	90.00	0.07	10,071.99	10,125.82	-667.81	10,125.00	0.00	0.00	0.00
18,900.00	90.00	0.07	10,071.99	10,225.82	-667.69	10,225.00	0.00	0.00	0.00
19,000.00	90.00	0.07	10,071.99	10,325.82	-667.58	10,325.00	0.00	0.00	0.00
19,100.00	90.00	0.07	10,072.00	10,425.82	-667.46	10,425.00	0.00	0.00	0.00

Database:	WellPlanner1	Local Co-ordinate Reference:	Well WXY #12H
Company:	Marathon Oil	TVD Reference:	Well @ 3023.00usft (GL: 2998' + KB: 25' (PD594))
Project:	Eddy County, NM	MD Reference:	Well @ 3023.00usft (GL: 2998' + KB: 25' (PD594))
Site:	Blue Steel Fed Com 23-29-21	North Reference:	Grid
Well:	WXY #12H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim Plan B		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
19,200.00	90.00	0.07	10,072.00	10,525.82	-667.35	10,525.00	0.00	0.00	0.00
19,300.00	90.00	0.07	10,072.00	10,625.82	-667.23	10,625.00	0.00	0.00	0.00
19,400.00	90.00	0.07	10,072.00	10,725.82	-667.12	10,725.00	0.00	0.00	0.00
19,500.00	90.00	0.07	10,072.00	10,825.82	-667.00	10,825.00	0.00	0.00	0.00
19,600.00	90.00	0.07	10,072.00	10,925.82	-666.89	10,925.00	0.00	0.00	0.00
19,700.00	90.00	0.07	10,072.00	11,025.82	-666.77	11,025.00	0.00	0.00	0.00
19,800.00	90.00	0.07	10,072.00	11,125.82	-666.66	11,125.00	0.00	0.00	0.00
19,900.00	90.00	0.07	10,072.00	11,225.82	-666.54	11,225.00	0.00	0.00	0.00
20,000.00	90.00	0.07	10,072.00	11,325.82	-666.43	11,325.00	0.00	0.00	0.00
20,100.00	90.00	0.07	10,072.00	11,425.82	-666.31	11,425.00	0.00	0.00	0.00
20,199.42	90.00	0.07	10,072.00	11,525.24	-666.20	11,524.42	0.00	0.00	0.00
[BlueSteelWXY#12H]LTP/BHL									

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 30-015-45896	² Pool Code 98220	³ Pool Name PURPLE SAGE; WOLFCAMP
⁴ Property Code	⁵ Property Name BLUE STEEL 21 WXY FED COM	⁶ Well Number 12H
⁷ OGRID No. 372098	⁸ Operator Name MARATHON OIL PERMIAN LLC	⁹ Elevation 2998'

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
A	28	23S	29E		1219	NORTH	997	EAST	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
B	16	23S	29E		330	NORTH	1650	EAST	EDDY

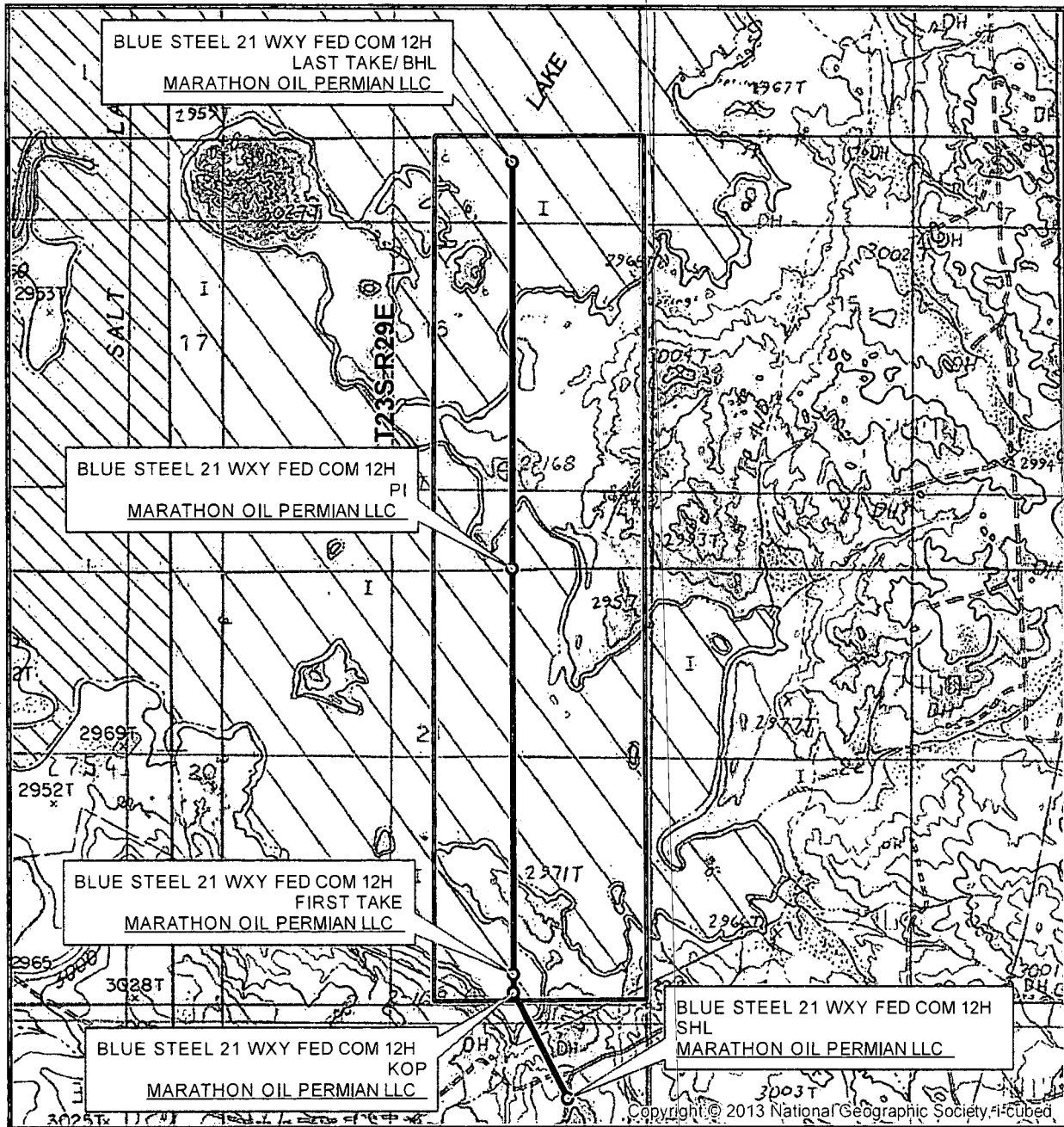
¹² Dedicated Acres 640.0	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

	CORNER COORDINATES NAD 83, SPCS NM EAST A - X: 650146.73' / Y: 477587.62' B - X: 650153.81' / Y: 466951.26' C - X: 647475.03' / Y: 466934.71' D - X: 647506.95' / Y: 477578.03'	CORNER COORDINATES NAD 27, SPCS NM EAST A - X: 608963.74' / Y: 477527.94' B - X: 608970.52' / Y: 466891.83' C - X: 606291.75' / Y: 466875.28' D - X: 606323.97' / Y: 477518.36'	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: Date: 11/19/2019 Printed Name: MELISSA SZUDERA E-mail Address: mpszudera@marathonoil.com
	LAST TAKE POINT/BOTTOM HOLE LOCATION 330' FNL 1650' FEL, SECTION 16 NAD 83, SPCS NM EAST X: 648495.79' / Y: 477251.62' LAT: 32.31156092N / LON: 103.98647099W NAD 27, SPCS NM EAST X: 607312.80' / Y: 477191.95' LAT: 32.31143902N / LON: 103.98597881W		
	FIRST TAKE POINT 330' FSL 1669' FEL, SECTION 21 NAD 83, SPCS NM EAST X: 648484.15' / Y: 467270.95' LAT: 32.28412592N / LON: 103.98661314W NAD 27, SPCS NM EAST X: 607300.87' / Y: 467211.52' LAT: 32.28400379N / LON: 103.98612201W		
	KICK OFF POINT 100' FSL 1669' FEL, SECTION 21 NAD 83, SPCS NM EAST X: 648484.34' / Y: 467040.95' LAT: 32.28349368N / LON: 103.98661493W NAD 27, SPCS NM EAST X: 607301.06' / Y: 466981.52' LAT: 32.28337154N / LON: 103.98612382W		
SURFACE HOLE LOCATION 1219' FNL 997' FEL, SECTION 28 NAD 83, SPCS NM EAST X: 649162.32' / Y: 465726.11' LAT: 32.27987337N / LON: 103.98443491W NAD 27, SPCS NM EAST X: 607979.00' / Y: 465666.71' LAT: 32.27975119N / LON: 103.9839444W			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. NOVEMBER 13, 2019 Date of Survey Signature and Seal of Professional Surveyor: Certificate Number: 11403

Distances/areas relative to NAD 83 Combined Scale Factor: 0.99978230 Convergence: 00°11'10.61002"

LOCATION VERIFICATION MAP



SEC. 28 TWP. 23-S RGE. 29-E
SURVEY: N.M.P.M.
COUNTY: EDDY
OPERATOR: MARATHON OIL PERMIAN LLC
DESCRIPTION: 1219' FNL & 997' FEL
ELEVATION: 2998'
LEASE: BLUE STEEL 21 FED COM
U.S.G.S. TOPOGRAPHIC MAP: REMUDA BASIN, NM.

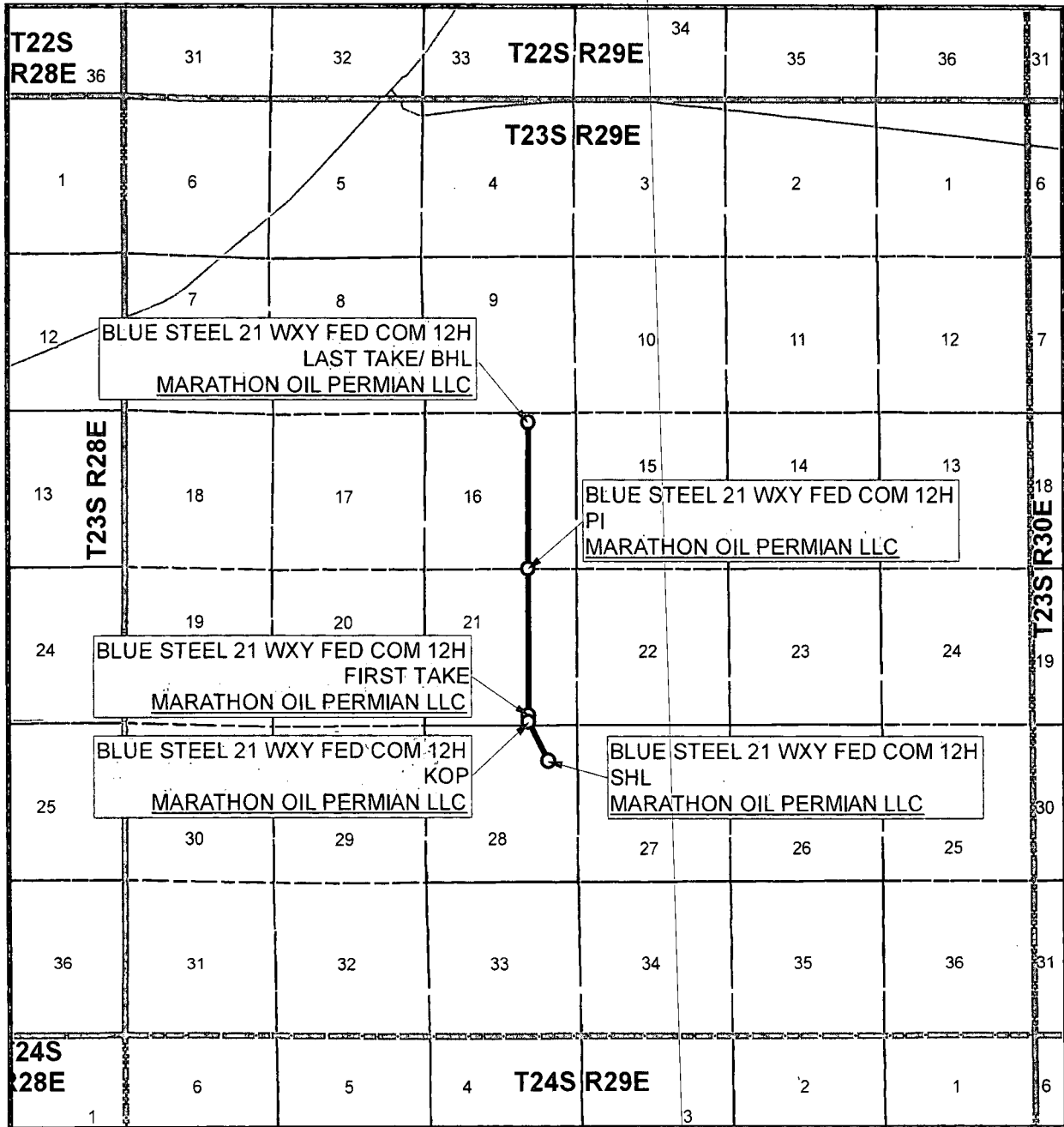
1" = 2,000'
CONTOUR INTERVAL = 10'



SHEET 2 OF 3

PREPARED BY:
R-SQUARED GLOBAL, LLC
1309 LOUISVILLE AVENUE, MONROE, LA 71201
318-323-6900 OFFICE
JOB No. R3942_009

VICINITY MAP



SEC. 28 TWP. 23-S RGE. 29-E
 SURVEY: N.M.P.M.
 COUNTY: EDDY
 OPERATOR: MARATHON OIL PERMIAN LLC
 DESCRIPTION: 1219' FNL & 997' FEL
 ELEVATION: 2998'
 LEASE: BLUE STEEL 21 FED COM
 U.S.G.S. TOPOGRAPHIC MAP: REMUDA BASIN, NM.

1" = 1 MILE



SHEET 3 OF 3

PREPARED BY:
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