

UNITED STATES **Carlsbad Field Office**
DEPARTMENT OF THE INTERIOR **OCD Artesia**
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
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.*5. Lease Serial No.
NMNM119272

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.
BLUE STEEL 21 WA FED COM 15H9. API Well No.
30-015-45899-00-X110. Field and Pool or Exploratory Area
PURPLE SAGE-WOLFCAMP (GAS)11. County or Parish, State
EDDY COUNTY, NM**SUBMIT IN TRIPLICATE - Other instructions on page 2**1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other2. Name of Operator
MARATHON OIL PERMIAN LLC
Contact: MELISSA SZUDERA
E-Mail: mszudera@marathonoil.com3a. Address
5555 SAN FELIPE ST
HOUSTON, TX 77056
3b. Phone No. (include area code)
Ph: 713-296-31794. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 28 T23S R29E NENE 1220' FNL 937' FEL
32.279873 N Lat, 103.984238 W Lon**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 Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original A
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	PD

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 1220' FNL 937' FEL to (219' FNL 967' FEL. See attached Revised C-102 Plat & Directional Drill Plan.

RECEIVED

JAN 09 2020

EMNRD-OCD ARTESIA

Engineering - okay DR 11/26/19
to new surface disturbance.
Approved. CCR 11/26/2019. DOI-BLM-NM-PD20-2019-0340-EA. COA's apply.

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #492866 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 (20PP0495SE)

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

Title

Date

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

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
WA #15H
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	465666.90	608009.00	32.279751	-103.983847	

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Deg	VSec
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2100.00	0.00	0.00	2100.00	0.00	0.00	0.00	0.00
3	2700.00	12.00	357.92	2695.62	62.56	-2.27	2.00	62.56
4	8444.59	12.00	357.92	8314.68	1256.14	-45.68	0.00	1256.08
5	9044.59	0.00	0.00	8910.30	1318.70	-47.95	2.00	1318.64
6	9706.29	0.00	0.00	9572.00	1318.70	-47.95	0.00	1318.64
7	10606.28	90.00	0.07	10144.96	1891.65	-47.29	10.00	1891.60
8	20242.09	90.00	0.07	10145.00	11527.45	-36.19	0.00	11527.40

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
[BlueSteelWA#15H]FTP	0.00	1548.69	-48.13	467215.59	607960.87
[BlueSteelWA#15H]KOP	9572.00	1318.70	-47.95	466985.60	607961.05
[BlueSteelWA#15H]LTP/BHL	10145.00	11527.45	-36.19	477194.35	607972.81



PRODIRECTIONAL



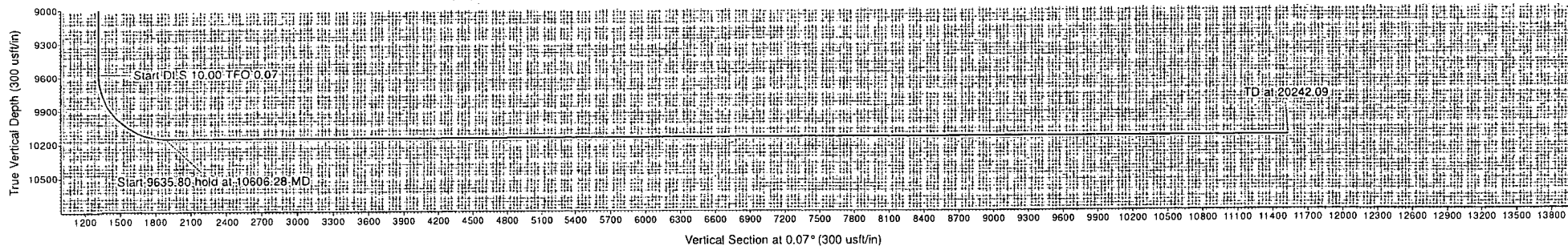
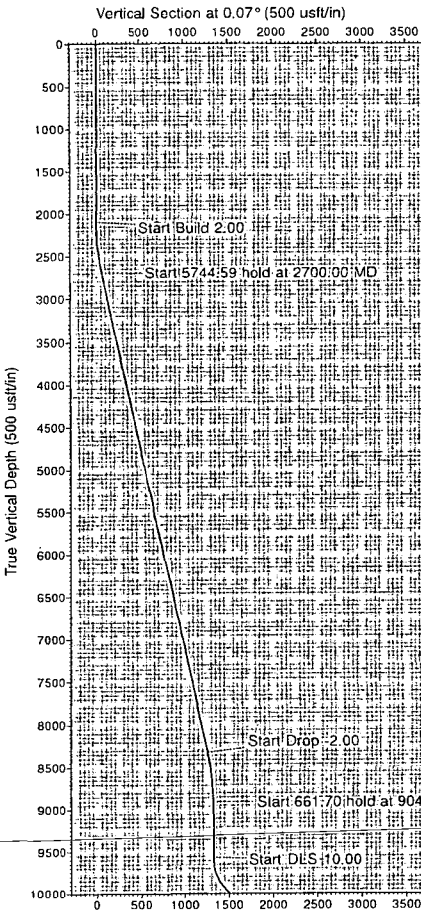
Azimuths to Grid North
True North: 30.19°
Magnetic North: 6.90°
Magnetic Field
Strength: 47994.5nT
Dip Angle: 60.05°
Date: 9/25/2016
Model: HDGM

Azimuth Corrections

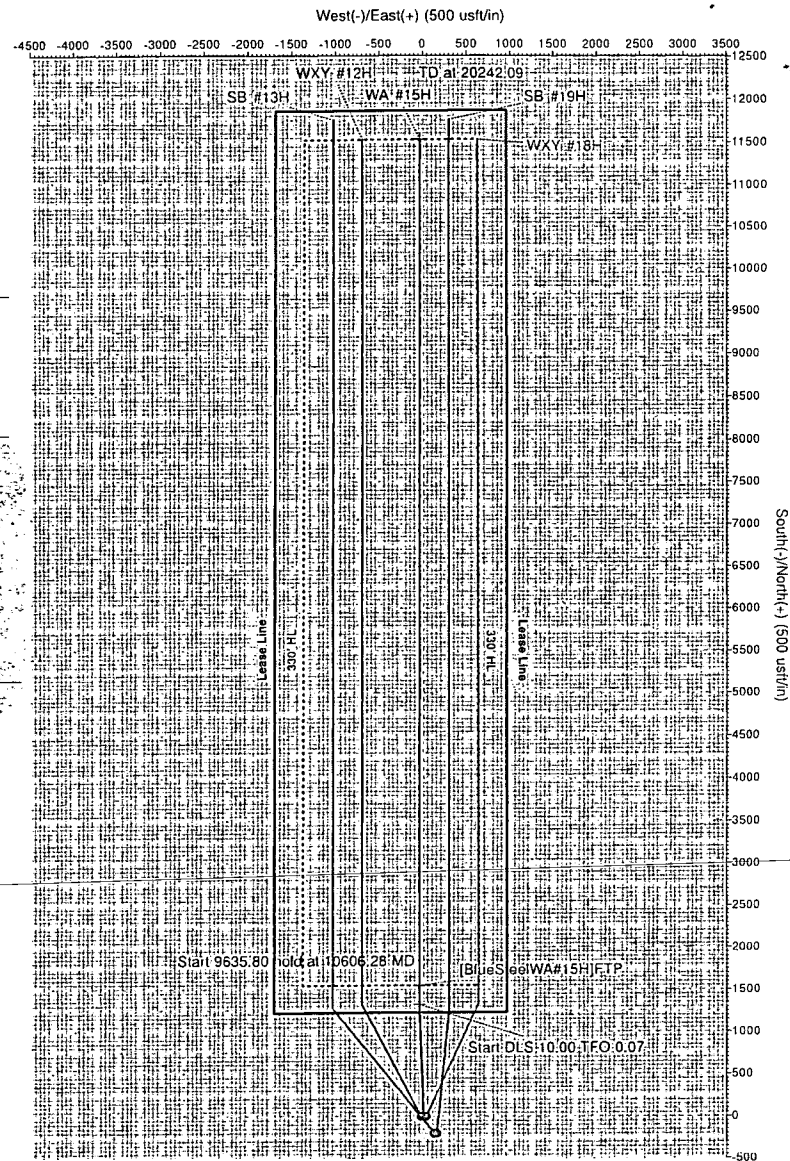
Total Magnetic Corr. (M to G): 6.90°

Declination (M to T): 7.08° East

Target Line: 10145' TVD @ 0° VS: 90° INC



36" x 48"



Database Company:	WellPlanner1 Marathon Oil	Local Co-ordinate Reference:	Well WA #15H
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:	WA #15H	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:	Map	Northing:	465,666.39 usft
From:		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:	WA #15H					
Well Position	+N/-S	0.51 usft	Northing:	465,666.90 usft	Latitude:	32.279752
	+E/-W	-30.11 usft	Easting:	608,009.00 usft	Longitude:	-103.983847
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	2,998.00 usft

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

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

Plan Survey Tool/Program	Date	11/18/2019		
Depth From	Depth To	Survey (Wellbore)	Tool Name	Remarks
(usft)	(usft)			
1	0.00	20,242.09 Prelim Plan B (OH)	MWD+IFR1	
			OWSG MWD + IFR1	

Database:	WellPlanner1	Local Co-ordinate Reference:	Well WA #15H
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:	WA #15H	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		
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00		
2,700.00	12.00	357.92	2,695.62	62.56	-2.27	2.00	2.00	0.00	357.92		
8,444.59	12.00	357.92	8,314.68	1,256.14	-45.68	0.00	0.00	0.00	0.00		
9,044.59	0.00	0.00	8,910.30	1,318.70	-47.95	2.00	-2.00	0.00	180.00		
9,706.29	0.00	0.00	9,572.00	1,318.70	-47.95	0.00	0.00	0.00	0.00	[BlueSteelWA#15H]K	
10,606.28	90.00	0.07	10,144.96	1,891.65	-47.29	10.00	10.00	0.01	0.07		
20,242.09	90.00	0.07	10,145.00	11,527.45	-36.19	0.00	0.00	0.00	0.00	[BlueSteelWA#15H]L1	

Database Company	WellPlanner1 Marathon Oil	Local Co-ordinate Reference	Well WA #15H
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	WA #15H	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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
[BlueSteelWA#15H]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	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
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	2.00	357.92	2,199.98	1.74	-0.06	1.74	2.00	2.00	0.00
2,300.00	4.00	357.92	2,299.84	6.97	-0.25	6.97	2.00	2.00	0.00
2,400.00	6.00	357.92	2,399.45	15.68	-0.57	15.68	2.00	2.00	0.00
2,500.00	8.00	357.92	2,498.70	27.86	-1.01	27.86	2.00	2.00	0.00
2,600.00	10.00	357.92	2,597.47	43.49	-1.58	43.49	2.00	2.00	0.00
2,700.00	12.00	357.92	2,695.62	62.56	-2.27	62.56	2.00	2.00	0.00
2,800.00	12.00	357.92	2,793.44	83.34	-3.03	83.33	0.00	0.00	0.00
2,900.00	12.00	357.92	2,891.25	104.12	-3.79	104.11	0.00	0.00	0.00
3,000.00	12.00	357.92	2,989.07	124.89	-4.54	124.89	0.00	0.00	0.00
3,100.00	12.00	357.92	3,086.88	145.67	-5.30	145.66	0.00	0.00	0.00
3,200.00	12.00	357.92	3,184.70	166.45	-6.05	166.44	0.00	0.00	0.00
3,300.00	12.00	357.92	3,282.51	187.23	-6.81	187.22	0.00	0.00	0.00
3,400.00	12.00	357.92	3,380.33	208.00	-7.56	207.99	0.00	0.00	0.00
3,500.00	12.00	357.92	3,478.14	228.78	-8.32	228.77	0.00	0.00	0.00
3,600.00	12.00	357.92	3,575.96	249.56	-9.07	249.55	0.00	0.00	0.00
3,700.00	12.00	357.92	3,673.77	270.34	-9.83	270.32	0.00	0.00	0.00
3,800.00	12.00	357.92	3,771.59	291.11	-10.59	291.10	0.00	0.00	0.00
3,900.00	12.00	357.92	3,869.40	311.89	-11.34	311.88	0.00	0.00	0.00
4,000.00	12.00	357.92	3,967.22	332.67	-12.10	332.65	0.00	0.00	0.00
4,100.00	12.00	357.92	4,065.03	353.45	-12.85	353.43	0.00	0.00	0.00
4,200.00	12.00	357.92	4,162.84	374.22	-13.61	374.21	0.00	0.00	0.00
4,300.00	12.00	357.92	4,260.66	395.00	-14.36	394.98	0.00	0.00	0.00
4,400.00	12.00	357.92	4,358.47	415.78	-15.12	415.76	0.00	0.00	0.00
4,500.00	12.00	357.92	4,456.29	436.56	-15.87	436.54	0.00	0.00	0.00
4,600.00	12.00	357.92	4,554.10	457.33	-16.63	457.31	0.00	0.00	0.00
4,700.00	12.00	357.92	4,651.92	478.11	-17.38	478.09	0.00	0.00	0.00
4,800.00	12.00	357.92	4,749.73	498.89	-18.14	498.86	0.00	0.00	0.00
4,900.00	12.00	357.92	4,847.55	519.66	-18.90	519.64	0.00	0.00	0.00
5,000.00	12.00	357.92	4,945.36	540.44	-19.65	540.42	0.00	0.00	0.00

Database	WellPlanner1	Local/Co-ordinate Reference	Well WA #15H
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	WA #15H	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)
5,100.00	12.00	357.92	5,043.18	561.22	-20.41	561.19	0.00	0.00	0.00
5,200.00	12.00	357.92	5,140.99	582.00	-21.16	581.97	0.00	0.00	0.00
5,300.00	12.00	357.92	5,238.81	602.77	-21.92	602.75	0.00	0.00	0.00
5,400.00	12.00	357.92	5,336.62	623.55	-22.67	623.52	0.00	0.00	0.00
5,500.00	12.00	357.92	5,434.44	644.33	-23.43	644.30	0.00	0.00	0.00
5,600.00	12.00	357.92	5,532.25	665.11	-24.18	665.08	0.00	0.00	0.00
5,700.00	12.00	357.92	5,630.07	685.88	-24.94	685.85	0.00	0.00	0.00
5,800.00	12.00	357.92	5,727.88	706.66	-25.70	706.63	0.00	0.00	0.00
5,900.00	12.00	357.92	5,825.70	727.44	-26.45	727.41	0.00	0.00	0.00
6,000.00	12.00	357.92	5,923.51	748.22	-27.21	748.18	0.00	0.00	0.00
6,100.00	12.00	357.92	6,021.33	768.99	-27.96	768.96	0.00	0.00	0.00
6,200.00	12.00	357.92	6,119.14	789.77	-28.72	789.74	0.00	0.00	0.00
6,300.00	12.00	357.92	6,216.95	810.55	-29.47	810.51	0.00	0.00	0.00
6,400.00	12.00	357.92	6,314.77	831.33	-30.23	831.29	0.00	0.00	0.00
6,500.00	12.00	357.92	6,412.58	852.10	-30.98	852.07	0.00	0.00	0.00
6,600.00	12.00	357.92	6,510.40	872.88	-31.74	872.84	0.00	0.00	0.00
6,700.00	12.00	357.92	6,608.21	893.66	-32.49	893.62	0.00	0.00	0.00
6,800.00	12.00	357.92	6,706.03	914.44	-33.25	914.39	0.00	0.00	0.00
6,900.00	12.00	357.92	6,803.84	935.21	-34.01	935.17	0.00	0.00	0.00
7,000.00	12.00	357.92	6,901.66	955.99	-34.76	955.95	0.00	0.00	0.00
7,100.00	12.00	357.92	6,999.47	976.77	-35.52	976.72	0.00	0.00	0.00
7,200.00	12.00	357.92	7,097.29	997.55	-36.27	997.50	0.00	0.00	0.00
7,300.00	12.00	357.92	7,195.10	1,018.32	-37.03	1,018.28	0.00	0.00	0.00
7,400.00	12.00	357.92	7,292.92	1,039.10	-37.78	1,039.05	0.00	0.00	0.00
7,500.00	12.00	357.92	7,390.73	1,059.88	-38.54	1,059.83	0.00	0.00	0.00
7,600.00	12.00	357.92	7,488.55	1,080.66	-39.29	1,080.61	0.00	0.00	0.00
7,700.00	12.00	357.92	7,586.36	1,101.43	-40.05	1,101.38	0.00	0.00	0.00
7,800.00	12.00	357.92	7,684.18	1,122.21	-40.81	1,122.16	0.00	0.00	0.00
7,900.00	12.00	357.92	7,781.99	1,142.99	-41.56	1,142.94	0.00	0.00	0.00
8,000.00	12.00	357.92	7,879.81	1,163.77	-42.32	1,163.71	0.00	0.00	0.00
8,100.00	12.00	357.92	7,977.62	1,184.54	-43.07	1,184.49	0.00	0.00	0.00
8,200.00	12.00	357.92	8,075.44	1,205.32	-43.83	1,205.27	0.00	0.00	0.00
8,300.00	12.00	357.92	8,173.25	1,226.10	-44.58	1,226.04	0.00	0.00	0.00
8,400.00	12.00	357.92	8,271.06	1,246.88	-45.34	1,246.82	0.00	0.00	0.00
8,444.59	12.00	357.92	8,314.68	1,256.14	-45.68	1,256.08	0.00	0.00	0.00
8,500.00	10.89	357.92	8,368.99	1,267.13	-46.07	1,267.07	2.00	-2.00	0.00
8,600.00	8.89	357.92	8,467.50	1,284.29	-46.70	1,284.24	2.00	-2.00	0.00
8,700.00	6.89	357.92	8,566.54	1,298.01	-47.20	1,297.96	2.00	-2.00	0.00
8,800.00	4.89	357.92	8,666.01	1,308.27	-47.57	1,308.21	2.00	-2.00	0.00
8,900.00	2.89	357.92	8,765.77	1,315.05	-47.82	1,315.00	2.00	-2.00	0.00
9,000.00	0.89	357.92	8,865.72	1,318.35	-47.94	1,318.29	2.00	-2.00	0.00
9,044.59	0.00	0.00	8,910.30	1,318.70	-47.95	1,318.64	2.00	-2.00	0.00
9,100.00	0.00	0.00	8,965.71	1,318.70	-47.95	1,318.64	0.00	0.00	0.00
9,200.00	0.00	0.00	9,065.71	1,318.70	-47.95	1,318.64	0.00	0.00	0.00
9,300.00	0.00	0.00	9,165.71	1,318.70	-47.95	1,318.64	0.00	0.00	0.00
9,400.00	0.00	0.00	9,265.71	1,318.70	-47.95	1,318.64	0.00	0.00	0.00
9,500.00	0.00	0.00	9,365.71	1,318.70	-47.95	1,318.64	0.00	0.00	0.00
9,600.00	0.00	0.00	9,465.71	1,318.70	-47.95	1,318.64	0.00	0.00	0.00
9,706.29	0.00	0.00	9,572.00	1,318.70	-47.95	1,318.64	0.00	0.00	0.00
[BlueSteelWA#15H]KOP									
9,750.00	4.37	0.07	9,615.67	1,320.37	-47.95	1,320.31	10.00	10.00	0.00
9,800.00	9.37	0.07	9,665.30	1,326.35	-47.94	1,326.29	10.00	10.00	0.00

Database:	WellPlanner1	Local Co-ordinate Reference:	Well WA #15H
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:	WA #15H	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)	
9,850.00	14.37	0.07	9,714.21	1,336.63	-47.93	1,336.57	10.00	10.00	0.00	
9,900.00	19.37	0.07	9,762.04	1,351.14	-47.91	1,351.08	10.00	10.00	0.00	
9,950.00	24.37	0.07	9,808.43	1,369.76	-47.89	1,369.70	10.00	10.00	0.00	
10,000.00	29.37	0.07	9,853.02	1,392.35	-47.87	1,392.29	10.00	10.00	0.00	
10,050.00	34.37	0.07	9,895.47	1,418.74	-47.83	1,418.68	10.00	10.00	0.00	
10,100.00	39.37	0.07	9,935.45	1,448.73	-47.80	1,448.67	10.00	10.00	0.00	
10,150.00	44.37	0.07	9,972.67	1,482.09	-47.76	1,482.03	10.00	10.00	0.00	
10,200.00	49.37	0.07	10,006.84	1,518.57	-47.72	1,518.51	10.00	10.00	0.00	
10,250.00	54.37	0.07	10,037.71	1,557.89	-47.67	1,557.83	10.00	10.00	0.00	
10,300.00	59.37	0.07	10,065.02	1,599.75	-47.63	1,599.69	10.00	10.00	0.00	
10,350.00	64.37	0.07	10,088.59	1,643.83	-47.58	1,643.77	10.00	10.00	0.00	
10,400.00	69.37	0.07	10,108.22	1,689.80	-47.52	1,689.74	10.00	10.00	0.00	
10,450.00	74.37	0.07	10,123.77	1,737.30	-47.47	1,737.24	10.00	10.00	0.00	
10,500.00	79.37	0.07	10,135.13	1,785.98	-47.41	1,785.92	10.00	10.00	0.00	
10,550.00	84.37	0.07	10,142.20	1,835.46	-47.35	1,835.40	10.00	10.00	0.00	
10,600.00	89.37	0.07	10,144.92	1,885.37	-47.30	1,885.31	10.00	10.00	0.00	
10,606.28	90.00	0.07	10,144.96	1,891.65	-47.29	1,891.60	10.00	10.00	0.00	
10,700.00	90.00	0.07	10,144.96	1,985.37	-47.18	1,985.31	0.00	0.00	0.00	
10,800.00	90.00	0.07	10,144.96	2,085.37	-47.07	2,085.31	0.00	0.00	0.00	
10,900.00	90.00	0.07	10,144.96	2,185.37	-46.95	2,185.31	0.00	0.00	0.00	
11,000.00	90.00	0.07	10,144.96	2,285.37	-46.84	2,285.31	0.00	0.00	0.00	
11,100.00	90.00	0.07	10,144.96	2,385.37	-46.72	2,385.31	0.00	0.00	0.00	
11,200.00	90.00	0.07	10,144.96	2,485.37	-46.61	2,485.31	0.00	0.00	0.00	
11,300.00	90.00	0.07	10,144.96	2,585.37	-46.49	2,585.31	0.00	0.00	0.00	
11,400.00	90.00	0.07	10,144.96	2,685.37	-46.38	2,685.31	0.00	0.00	0.00	
11,500.00	90.00	0.07	10,144.96	2,785.37	-46.26	2,785.31	0.00	0.00	0.00	
11,600.00	90.00	0.07	10,144.96	2,885.37	-46.15	2,885.31	0.00	0.00	0.00	
11,700.00	90.00	0.07	10,144.96	2,985.37	-46.03	2,985.31	0.00	0.00	0.00	
11,800.00	90.00	0.07	10,144.96	3,085.37	-45.91	3,085.31	0.00	0.00	0.00	
11,900.00	90.00	0.07	10,144.96	3,185.37	-45.80	3,185.31	0.00	0.00	0.00	
12,000.00	90.00	0.07	10,144.96	3,285.37	-45.68	3,285.31	0.00	0.00	0.00	
12,100.00	90.00	0.07	10,144.96	3,385.37	-45.57	3,385.31	0.00	0.00	0.00	
12,200.00	90.00	0.07	10,144.97	3,485.37	-45.45	3,485.31	0.00	0.00	0.00	
12,300.00	90.00	0.07	10,144.97	3,585.37	-45.34	3,585.31	0.00	0.00	0.00	
12,400.00	90.00	0.07	10,144.97	3,685.37	-45.22	3,685.31	0.00	0.00	0.00	
12,500.00	90.00	0.07	10,144.97	3,785.37	-45.11	3,785.31	0.00	0.00	0.00	
12,600.00	90.00	0.07	10,144.97	3,885.37	-44.99	3,885.31	0.00	0.00	0.00	
12,700.00	90.00	0.07	10,144.97	3,985.37	-44.88	3,985.31	0.00	0.00	0.00	
12,800.00	90.00	0.07	10,144.97	4,085.37	-44.76	4,085.31	0.00	0.00	0.00	
12,900.00	90.00	0.07	10,144.97	4,185.37	-44.65	4,185.31	0.00	0.00	0.00	
13,000.00	90.00	0.07	10,144.97	4,285.37	-44.53	4,285.31	0.00	0.00	0.00	
13,100.00	90.00	0.07	10,144.97	4,385.37	-44.42	4,385.31	0.00	0.00	0.00	
13,200.00	90.00	0.07	10,144.97	4,485.37	-44.30	4,485.31	0.00	0.00	0.00	
13,300.00	90.00	0.07	10,144.97	4,585.37	-44.19	4,585.31	0.00	0.00	0.00	
13,400.00	90.00	0.07	10,144.97	4,685.37	-44.07	4,685.31	0.00	0.00	0.00	
13,500.00	90.00	0.07	10,144.97	4,785.37	-43.96	4,785.31	0.00	0.00	0.00	
13,600.00	90.00	0.07	10,144.97	4,885.37	-43.84	4,885.31	0.00	0.00	0.00	
13,700.00	90.00	0.07	10,144.97	4,985.37	-43.73	4,985.31	0.00	0.00	0.00	
13,800.00	90.00	0.07	10,144.97	5,085.37	-43.61	5,085.31	0.00	0.00	0.00	
13,900.00	90.00	0.07	10,144.97	5,185.37	-43.50	5,185.31	0.00	0.00	0.00	
14,000.00	90.00	0.07	10,144.97	5,285.37	-43.38	5,285.31	0.00	0.00	0.00	
14,100.00	90.00	0.07	10,144.97	5,385.37	-43.27	5,385.31	0.00	0.00	0.00	

Database	WellPlanner1	Local Co-ordinate Reference	Well WA #15H
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	WA #15H	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)	
14,200.00	90.00	0.07	10,144.97	5,485.37	-43.15	5,485.31	0.00	0.00	0.00	
14,300.00	90.00	0.07	10,144.97	5,585.37	-43.03	5,585.31	0.00	0.00	0.00	
14,400.00	90.00	0.07	10,144.97	5,685.37	-42.92	5,685.31	0.00	0.00	0.00	
14,500.00	90.00	0.07	10,144.98	5,785.37	-42.80	5,785.31	0.00	0.00	0.00	
14,600.00	90.00	0.07	10,144.98	5,885.37	-42.69	5,885.31	0.00	0.00	0.00	
14,700.00	90.00	0.07	10,144.98	5,985.37	-42.57	5,985.31	0.00	0.00	0.00	
14,800.00	90.00	0.07	10,144.98	6,085.37	-42.46	6,085.31	0.00	0.00	0.00	
14,900.00	90.00	0.07	10,144.98	6,185.37	-42.34	6,185.31	0.00	0.00	0.00	
15,000.00	90.00	0.07	10,144.98	6,285.37	-42.23	6,285.31	0.00	0.00	0.00	
15,100.00	90.00	0.07	10,144.98	6,385.37	-42.11	6,385.31	0.00	0.00	0.00	
15,200.00	90.00	0.07	10,144.98	6,485.37	-42.00	6,485.31	0.00	0.00	0.00	
15,300.00	90.00	0.07	10,144.98	6,585.37	-41.88	6,585.31	0.00	0.00	0.00	
15,400.00	90.00	0.07	10,144.98	6,685.37	-41.77	6,685.31	0.00	0.00	0.00	
15,500.00	90.00	0.07	10,144.98	6,785.37	-41.65	6,785.31	0.00	0.00	0.00	
15,600.00	90.00	0.07	10,144.98	6,885.37	-41.54	6,885.31	0.00	0.00	0.00	
15,700.00	90.00	0.07	10,144.98	6,985.37	-41.42	6,985.31	0.00	0.00	0.00	
15,800.00	90.00	0.07	10,144.98	7,085.37	-41.31	7,085.31	0.00	0.00	0.00	
15,900.00	90.00	0.07	10,144.98	7,185.37	-41.19	7,185.31	0.00	0.00	0.00	
16,000.00	90.00	0.07	10,144.98	7,285.37	-41.08	7,285.31	0.00	0.00	0.00	
16,100.00	90.00	0.07	10,144.98	7,385.37	-40.96	7,385.31	0.00	0.00	0.00	
16,200.00	90.00	0.07	10,144.98	7,485.37	-40.85	7,485.31	0.00	0.00	0.00	
16,300.00	90.00	0.07	10,144.98	7,585.37	-40.73	7,585.31	0.00	0.00	0.00	
16,400.00	90.00	0.07	10,144.98	7,685.37	-40.62	7,685.31	0.00	0.00	0.00	
16,500.00	90.00	0.07	10,144.98	7,785.37	-40.50	7,785.31	0.00	0.00	0.00	
16,600.00	90.00	0.07	10,144.98	7,885.37	-40.39	7,885.31	0.00	0.00	0.00	
16,700.00	90.00	0.07	10,144.98	7,985.37	-40.27	7,985.31	0.00	0.00	0.00	
16,800.00	90.00	0.07	10,144.99	8,085.37	-40.16	8,085.31	0.00	0.00	0.00	
16,900.00	90.00	0.07	10,144.99	8,185.37	-40.04	8,185.31	0.00	0.00	0.00	
17,000.00	90.00	0.07	10,144.99	8,285.37	-39.92	8,285.31	0.00	0.00	0.00	
17,100.00	90.00	0.07	10,144.99	8,385.37	-39.81	8,385.31	0.00	0.00	0.00	
17,200.00	90.00	0.07	10,144.99	8,485.37	-39.69	8,485.31	0.00	0.00	0.00	
17,300.00	90.00	0.07	10,144.99	8,585.37	-39.58	8,585.31	0.00	0.00	0.00	
17,400.00	90.00	0.07	10,144.99	8,685.37	-39.46	8,685.31	0.00	0.00	0.00	
17,500.00	90.00	0.07	10,144.99	8,785.37	-39.35	8,785.31	0.00	0.00	0.00	
17,600.00	90.00	0.07	10,144.99	8,885.37	-39.23	8,885.31	0.00	0.00	0.00	
17,700.00	90.00	0.07	10,144.99	8,985.37	-39.12	8,985.31	0.00	0.00	0.00	
17,800.00	90.00	0.07	10,144.99	9,085.37	-39.00	9,085.31	0.00	0.00	0.00	
17,900.00	90.00	0.07	10,144.99	9,185.37	-38.89	9,185.31	0.00	0.00	0.00	
18,000.00	90.00	0.07	10,144.99	9,285.37	-38.77	9,285.31	0.00	0.00	0.00	
18,100.00	90.00	0.07	10,144.99	9,385.37	-38.66	9,385.31	0.00	0.00	0.00	
18,200.00	90.00	0.07	10,144.99	9,485.37	-38.54	9,485.31	0.00	0.00	0.00	
18,300.00	90.00	0.07	10,144.99	9,585.37	-38.43	9,585.31	0.00	0.00	0.00	
18,400.00	90.00	0.07	10,144.99	9,685.37	-38.31	9,685.31	0.00	0.00	0.00	
18,500.00	90.00	0.07	10,144.99	9,785.37	-38.20	9,785.31	0.00	0.00	0.00	
18,600.00	90.00	0.07	10,144.99	9,885.37	-38.08	9,885.31	0.00	0.00	0.00	
18,700.00	90.00	0.07	10,144.99	9,985.37	-37.97	9,985.31	0.00	0.00	0.00	
18,800.00	90.00	0.07	10,144.99	10,085.37	-37.85	10,085.31	0.00	0.00	0.00	
18,900.00	90.00	0.07	10,144.99	10,185.37	-37.74	10,185.31	0.00	0.00	0.00	
19,000.00	90.00	0.07	10,144.99	10,285.37	-37.62	10,285.31	0.00	0.00	0.00	
19,100.00	90.00	0.07	10,145.00	10,385.37	-37.51	10,385.31	0.00	0.00	0.00	
19,200.00	90.00	0.07	10,145.00	10,485.37	-37.39	10,485.31	0.00	0.00	0.00	
19,300.00	90.00	0.07	10,145.00	10,585.37	-37.28	10,585.31	0.00	0.00	0.00	

Database:	WellPlanner1	Local Co-ordinate Reference:	Well WA #15H
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:	WA #15H	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)
19,400.00	90.00	0.07	10,145.00	10,685.37	-37.16	10,685.31	0.00	0.00	0.00
19,500.00	90.00	0.07	10,145.00	10,785.37	-37.04	10,785.31	0.00	0.00	0.00
19,600.00	90.00	0.07	10,145.00	10,885.36	-36.93	10,885.31	0.00	0.00	0.00
19,700.00	90.00	0.07	10,145.00	10,985.36	-36.81	10,985.31	0.00	0.00	0.00
19,800.00	90.00	0.07	10,145.00	11,085.36	-36.70	11,085.31	0.00	0.00	0.00
19,900.00	90.00	0.07	10,145.00	11,185.36	-36.58	11,185.31	0.00	0.00	0.00
20,000.00	90.00	0.07	10,145.00	11,285.36	-36.47	11,285.31	0.00	0.00	0.00
20,100.00	90.00	0.07	10,145.00	11,385.36	-36.35	11,385.31	0.00	0.00	0.00
20,200.00	90.00	0.07	10,145.00	11,485.36	-36.24	11,485.31	0.00	0.00	0.00
20,242.09	90.00	0.07	10,145.00	11,527.45	-36.19	11,527.40	0.00	0.00	0.00
[BlueSteelWA#15H]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

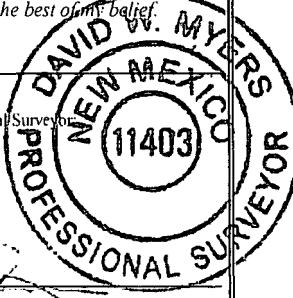
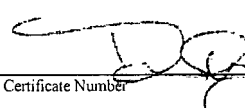
State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

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 30-015-45899		² Pool Code 98220		³ Pool Name PURPLE SAGE; WOLFCAMP					
⁴ Property Code		⁵ Property Name BLUE STEEL 21 WA FED COM				⁶ Well Number 15H			
⁷ OGRID No. 372098		⁸ Operator Name MARATHON OIL PERMIAN LLC				⁹ Elevation 2998'			
¹⁰ Surface Location									
UL or lot no. A	Section 28	Township 23S	Range 29E	Lot Idn	Feet from the 1219	North/South line NORTH	Feet from the 967	East/West line EAST	County EDDY
¹¹ Bottom Hole Location If Different From Surface									
UL or lot no. A	Section 16	Township 23S	Range 29E	Lot Idn	Feet from the 330	North/South line NORTH	Feet from the 990	East/West line EAST	County EDDY
¹² Dedicated Acres 640.0		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No.			

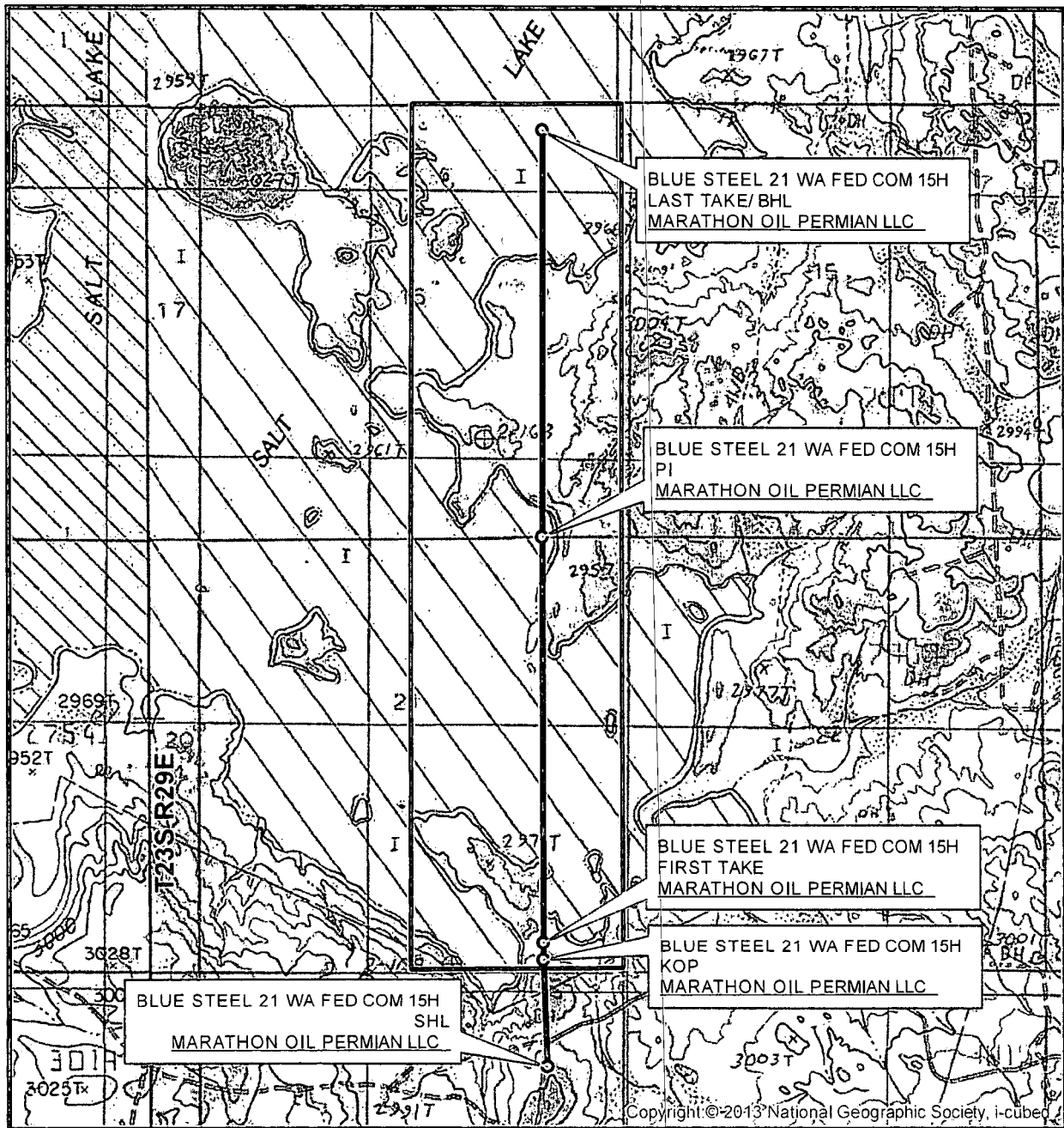
No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

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: mszudera@marathonoil.com	
LAST TAKE POINT/BOTTOM HOLE LOCATION 330' FNL 990' FEL, SECTION 16 NAD 83, SPCS NM EAST X: 649155.80' / Y: 477254.01' LAT: 32.31156162N / LON: 103.9843346W NAD 27, SPCS NM EAST X: 607972.81' / Y: 477194.35' LAT: 32.31143971N / LON: 103.98384247W		FIRST TAKE POINT 330' FSL 1009' FEL, SECTION 21 NAD 83, SPCS NM EAST X: 649144.14' / Y: 467275.03' LAT: 32.28413125N / LON: 103.98447742W NAD 27, SPCS NM EAST X: 607960.87' / Y: 467215.59' LAT: 32.28400910N / LON: 103.98398635W		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: 	
KICK OFF POINT 100' FSL 1009' FEL, SECTION 21 NAD 83, SPCS NM EAST X: 649144.33' / Y: 467045.02' LAT: 32.28349900N / LON: 103.98447922W NAD 27, SPCS NM EAST X: 607961.05' / Y: 466985.60' LAT: 32.28337686N / LON: 103.98398817W		SURFACE HOLE LOCATION 1219' FNL 967' FEL, SECTION 28 NAD 83, SPCS NM EAST X: 649192.32' / Y: 465726.29' LAT: 32.27987361N / LON: 103.98433784W NAD 27, SPCS NM EAST X: 608009.00' / Y: 465666.90' LAT: 32.27975143N / LON: 103.98384693W			

SHEET 1 OF 3
JOB No. R3942-010
REV 3 JCS 11/5/2019

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 & 967' FEL
 ELEVATION: 2998'
 LEASE: BLUE STEEL 21 FED COM
 U.S.G.S. TOPOGRAPHIC MAP: REMUDA BASIN, NM.

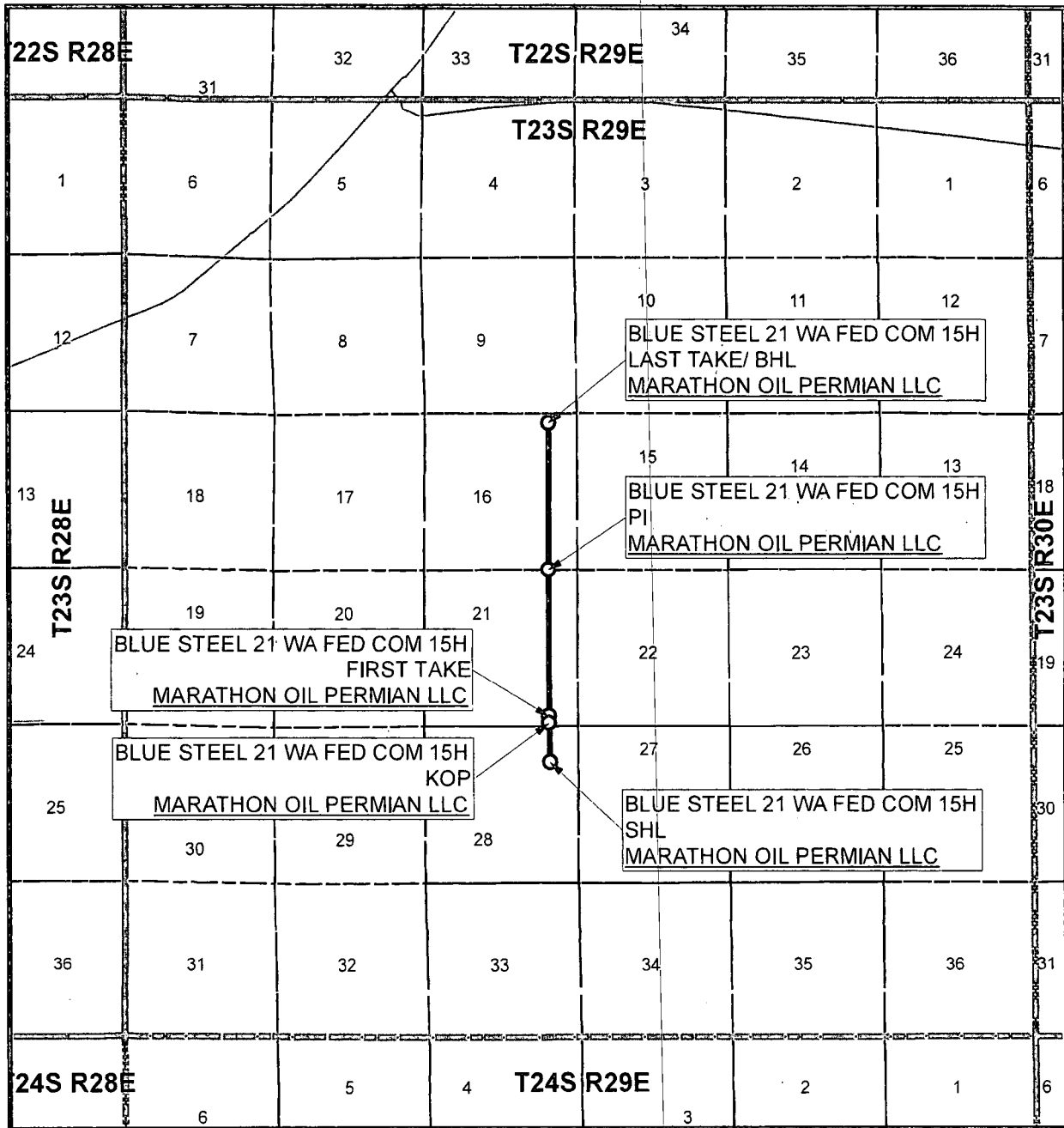
1" = 2,000'
 CONTOUR INTERVAL = 10'



SHEET 2 OF 3

PREPARED BY:
 R-SQUARED GLOBAL, LLC
 1309 LOUISVILLE AVENUE, MONROE, LA 71201
 318-323-6900 OFFICE
 JOB No. R3942_010

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 & 967' 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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