

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTCarlsbad Field Office
OCD ArtesiaFORM 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 SB FED COM 19H9. API Well No.
30-015-45900-00-X110. Field and Pool or Exploratory Area
LAGUNA SALADO-BONE SPRING11. 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 LLCContact: MELISSA SZUDERA
E-Mail: mszudera@marathonoil.com3a. Address
5555 SAN FELIPE ST
HOUSTON, TX 770563b. Phone No. (include area code)
Ph: 713-296-3179

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 28 T23S R29E NENE 1220FNL 907FEL
32.279873 N Lat, 103.984146 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 1250' FNL 907' FEL to 1420' FNL 818' FEL. SHL will be located within the approved existing well pad. See attached Revised C-102 Plat & Directional Drill Plan.

RECEIVED

JAN 09 2020

EMNRD-OCD ARTESIA

Some
COAS
apply

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

Electronic Submission #492877 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 (20PP0496SE)

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

Acting APM

Date

11/26/19

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

CFO

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 ****

1/28/20 KS



Marathon Oil
Eddy County, NM
Blue Steel Fed Com 23-29-21
SB #19H
Prelim Plan B
GL: 3006' + 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 @ 3031.00usft (GL: 3006' + KB: 25' (PD594))

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Spot
0.00	0.00	465466.00	608158.89	32.279198	-103.983364	

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	VSec
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00
3	2300.00	16.00	5.51	2289.64	110.47	10.65	2.00	110.47
4	6858.73	16.00	5.51	6671.78	1361.22	131.20	0.00	1361.27
5	7658.73	0.00	0.00	7461.42	1471.69	141.85	2.00	1471.74
6	8390.31	0.00	0.00	8193.00	1471.69	141.85	0.00	1471.74
7	9290.31	90.00	0.02	8765.96	2044.65	142.00	10.00	2044.69
8	19205.21	90.00	0.02	8766.00	11959.55	144.67	0.00	11959.60

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
[BlueSteelSB#19H]FTP	0.00	1521.69	141.76	466987.69	608300.65
[BlueSteelSB#19H]KOP	8193.00	1471.69	141.85	466937.69	608300.74
[BlueSteelSB#19H]LTP/BHL	8766.00	11959.55	144.67	477425.55	608303.56



PRODIRECTIONAL

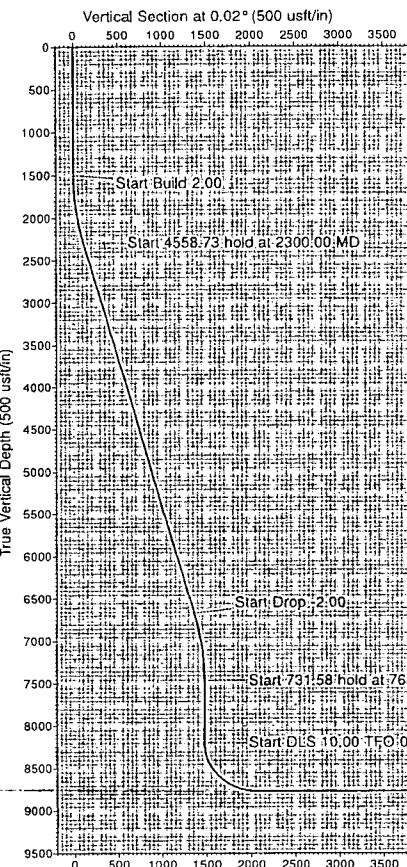


Azimuths to Grid North
True North: -0.19°
Magnetic North: 6.90°
Magnetic Field
Strength: 47994.1 nT
Dip Angle: 60.05°
Date: 9/25/2018
Model: HDGM

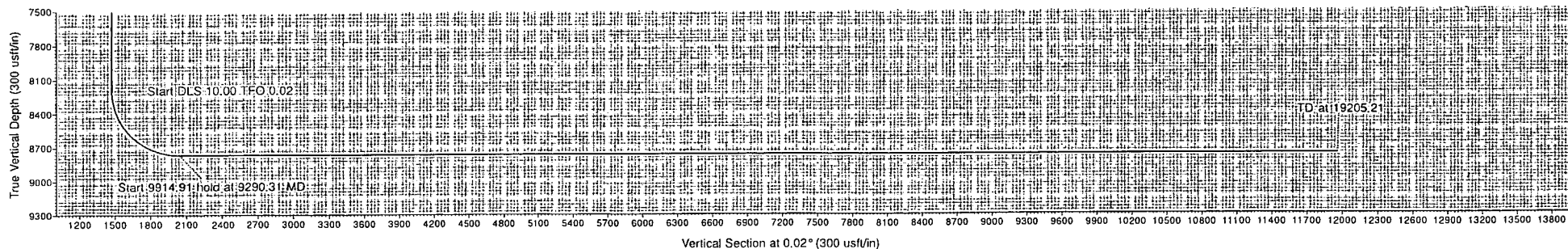
Azimuth Corrections

Total Magnetic Corr. (M to G): 6.90°

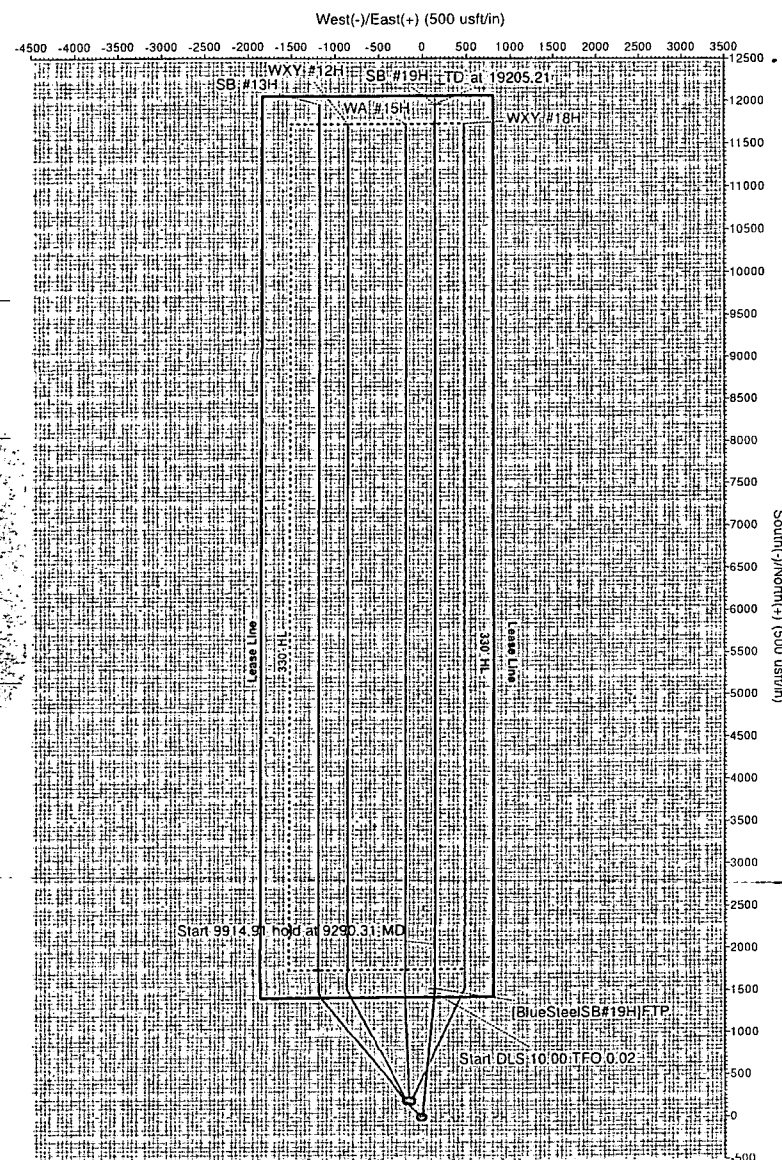
Declination (M to T): 7.08° East



Target Line: 8766' TVD @ 0° VS: 90° INC



36" x 48"



Database Company:	WellPlanner1 Marathon Oil	Local Co-ordinate Reference:	Well SB #19H
Project:	Eddy County, NM	TVD Reference:	Well @ 3031.00usft (GL: 3006' + KB: 25' (PD594))
Site:	Blue Steel Fed Com 23-29-21	MD Reference:	Well @ 3031.00usft (GL: 3006' + KB: 25' (PD594))
Well:	SB #19H	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:	SB #19H					
Well Position	+N-S	-200.39 usft	Northing:	465,466.00 usft	Latitude:	32.279198
	+E-W	119.78 usft	Easting:	608,158.89 usft	Longitude:	-103.983364
Position Uncertainty	0.00 usft		Wellhead Elevation:		Ground Level:	3,006.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	HDGM	9/25/2018	7.08	60.05	47,994.10

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	0.02

Plan/Survey Tool Program	Date	11/18/2019		
Depth From	Depth To	Survey (Wellbore)	Tool Name	Remarks
(usft)	(usft)			
1	0.00	19,205.21 Prelim Plan B (OH)	MWD+IFR1	
			OWSG MWD + IFR1	

Database:	WellPlanner1	Local Co-ordinate Reference:	Well SB #19H
Company:	Marathon Oil	TVD Reference:	Well @ 3031.00usft (GL: 3006' + KB: 25' (PD594))
Project:	Eddy County, NM	MD Reference:	Well @ 3031.00usft (GL: 3006' + KB: 25' (PD594))
Site:	Blue Steel Fed Com 23-29-21	North Reference:	Grid
Well:	SB #19H	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	
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,300.00	16.00	5.51	2,289.64	110.47	10.65	2.00	2.00	0.00	5.51	
6,858.73	16.00	5.51	6,671.78	1,361.22	131.20	0.00	0.00	0.00	0.00	
7,658.73	0.00	0.00	7,461.42	1,471.69	141.85	2.00	-2.00	0.00	180.00	
8,390.31	0.00	0.00	8,193.00	1,471.69	141.85	0.00	0.00	0.00	0.00	[BlueSteelSB#19H]KC
9,290.31	90.00	0.02	8,765.96	2,044.65	142.00	10.00	10.00	0.00	0.02	
19,205.21	90.00	0.02	8,766.00	11,959.55	144.67	0.00	0.00	0.00	0.00	[BlueSteelSB#19H]LT

Database Company:	WellPlanner1 Marathon Oil	Local Co-ordinate Reference:	Well SB #19H
Project:	Eddy County, NM	TVD Reference:	Well @ 3031.00usft (GL: 3006' + KB: 25' (PD594))
Site:	Blue Steel Fed Com 23-29-21	IMD Reference:	Well @ 3031.00usft (GL: 3006' + KB: 25' (PD594))
Well:	SB #19H	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	
[BlueSteelSB#19H]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	2.00	5.51	1,599.98	1.74	0.17	1.74	2.00	2.00	0.00	
1,700.00	4.00	5.51	1,699.84	6.95	0.67	6.95	2.00	2.00	0.00	
1,800.00	6.00	5.51	1,799.45	15.62	1.51	15.62	2.00	2.00	0.00	
1,900.00	8.00	5.51	1,898.70	27.75	2.67	27.75	2.00	2.00	0.00	
2,000.00	10.00	5.51	1,997.47	43.32	4.18	43.32	2.00	2.00	0.00	
2,100.00	12.00	5.51	2,095.62	62.31	6.01	62.32	2.00	2.00	0.00	
2,200.00	14.00	5.51	2,193.06	84.70	8.16	84.71	2.00	2.00	0.00	
2,300.00	16.00	5.51	2,289.64	110.47	10.65	110.47	2.00	2.00	0.00	
2,400.00	16.00	5.51	2,385.77	137.90	13.29	137.91	0.00	0.00	0.00	
2,500.00	16.00	5.51	2,481.90	165.34	15.94	165.34	0.00	0.00	0.00	
2,600.00	16.00	5.51	2,578.02	192.77	18.58	192.78	0.00	0.00	0.00	
2,700.00	16.00	5.51	2,674.15	220.21	21.23	220.22	0.00	0.00	0.00	
2,800.00	16.00	5.51	2,770.27	247.65	23.87	247.66	0.00	0.00	0.00	
2,900.00	16.00	5.51	2,866.40	275.08	26.51	275.09	0.00	0.00	0.00	
3,000.00	16.00	5.51	2,962.53	302.52	29.16	302.53	0.00	0.00	0.00	
3,100.00	16.00	5.51	3,058.65	329.96	31.80	329.97	0.00	0.00	0.00	
3,200.00	16.00	5.51	3,154.78	357.39	34.45	357.41	0.00	0.00	0.00	
3,300.00	16.00	5.51	3,250.90	384.83	37.09	384.84	0.00	0.00	0.00	
3,400.00	16.00	5.51	3,347.03	412.27	39.74	412.28	0.00	0.00	0.00	
3,500.00	16.00	5.51	3,443.16	439.70	42.38	439.72	0.00	0.00	0.00	
3,600.00	16.00	5.51	3,539.28	467.14	45.03	467.16	0.00	0.00	0.00	
3,700.00	16.00	5.51	3,635.41	494.58	47.67	494.59	0.00	0.00	0.00	
3,800.00	16.00	5.51	3,731.54	522.01	50.31	522.03	0.00	0.00	0.00	
3,900.00	16.00	5.51	3,827.66	549.45	52.96	549.47	0.00	0.00	0.00	
4,000.00	16.00	5.51	3,923.79	576.89	55.60	576.91	0.00	0.00	0.00	
4,100.00	16.00	5.51	4,019.91	604.32	58.25	604.34	0.00	0.00	0.00	
4,200.00	16.00	5.51	4,116.04	631.76	60.89	631.78	0.00	0.00	0.00	
4,300.00	16.00	5.51	4,212.17	659.20	63.54	659.22	0.00	0.00	0.00	
4,400.00	16.00	5.51	4,308.29	686.63	66.18	686.66	0.00	0.00	0.00	
4,500.00	16.00	5.51	4,404.42	714.07	68.83	714.09	0.00	0.00	0.00	
4,600.00	16.00	5.51	4,500.54	741.51	71.47	741.53	0.00	0.00	0.00	
4,700.00	16.00	5.51	4,596.67	768.94	74.12	768.97	0.00	0.00	0.00	
4,800.00	16.00	5.51	4,692.80	796.38	76.76	796.41	0.00	0.00	0.00	
4,900.00	16.00	5.51	4,788.92	823.82	79.40	823.84	0.00	0.00	0.00	
5,000.00	16.00	5.51	4,885.05	851.25	82.05	851.28	0.00	0.00	0.00	

Database Company:	WellPlanner1 Marathon Oil	Local Co-ordinate Reference:	Well SB #19H
Project:	Eddy County, NM	TVD Reference:	Well @ 3031.00usft (GL: 3006' + KB: 25' (PD594))
Site:	Blue Steel Fed Com 23-29-21	MD Reference:	Well @ 3031.00usft (GL: 3006' + KB: 25' (PD594))
Well:	SB #19H	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)	
5,100.00	16.00	5.51	4,981.18	878.69	84.69	878.72	0.00	0.00	0.00	
5,200.00	16.00	5.51	5,077.30	906.13	87.34	906.16	0.00	0.00	0.00	
5,300.00	16.00	5.51	5,173.43	933.56	89.98	933.59	0.00	0.00	0.00	
5,400.00	16.00	5.51	5,269.55	961.00	92.63	961.03	0.00	0.00	0.00	
5,500.00	16.00	5.51	5,365.68	988.44	95.27	988.47	0.00	0.00	0.00	
5,600.00	16.00	5.51	5,461.81	1,015.87	97.92	1,015.91	0.00	0.00	0.00	
5,700.00	16.00	5.51	5,557.93	1,043.31	100.56	1,043.34	0.00	0.00	0.00	
5,800.00	16.00	5.51	5,654.06	1,070.75	103.20	1,070.78	0.00	0.00	0.00	
5,900.00	16.00	5.51	5,750.19	1,098.18	105.85	1,098.22	0.00	0.00	0.00	
6,000.00	16.00	5.51	5,846.31	1,125.62	108.49	1,125.66	0.00	0.00	0.00	
6,100.00	16.00	5.51	5,942.44	1,153.06	111.14	1,153.09	0.00	0.00	0.00	
6,200.00	16.00	5.51	6,038.56	1,180.49	113.78	1,180.53	0.00	0.00	0.00	
6,300.00	16.00	5.51	6,134.69	1,207.93	116.43	1,207.97	0.00	0.00	0.00	
6,400.00	16.00	5.51	6,230.82	1,235.37	119.07	1,235.41	0.00	0.00	0.00	
6,500.00	16.00	5.51	6,326.94	1,262.80	121.72	1,262.84	0.00	0.00	0.00	
6,600.00	16.00	5.51	6,423.07	1,290.24	124.36	1,290.28	0.00	0.00	0.00	
6,700.00	16.00	5.51	6,519.19	1,317.67	127.01	1,317.72	0.00	0.00	0.00	
6,800.00	16.00	5.51	6,615.32	1,345.11	129.65	1,345.16	0.00	0.00	0.00	
6,858.73	16.00	5.51	6,671.78	1,361.22	131.20	1,361.27	0.00	0.00	0.00	
6,900.00	15.17	5.51	6,711.53	1,372.26	132.27	1,372.31	2.00	-2.00	0.00	
7,000.00	13.17	5.51	6,808.48	1,396.64	134.62	1,396.68	2.00	-2.00	0.00	
7,100.00	11.17	5.51	6,906.22	1,417.63	136.64	1,417.68	2.00	-2.00	0.00	
7,200.00	9.17	5.51	7,004.65	1,435.21	138.33	1,435.26	2.00	-2.00	0.00	
7,300.00	7.17	5.51	7,103.63	1,449.36	139.70	1,449.41	2.00	-2.00	0.00	
7,400.00	5.17	5.51	7,203.04	1,460.07	140.73	1,460.12	2.00	-2.00	0.00	
7,500.00	3.17	5.51	7,302.77	1,467.31	141.43	1,467.36	2.00	-2.00	0.00	
7,600.00	1.17	5.51	7,402.69	1,471.09	141.79	1,471.14	2.00	-2.00	0.00	
7,658.73	0.00	0.00	7,461.42	1,471.69	141.85	1,471.74	2.00	-2.00	0.00	
7,700.00	0.00	0.00	7,502.69	1,471.69	141.85	1,471.74	0.00	0.00	0.00	
7,800.00	0.00	0.00	7,602.69	1,471.69	141.85	1,471.74	0.00	0.00	0.00	
7,900.00	0.00	0.00	7,702.69	1,471.69	141.85	1,471.74	0.00	0.00	0.00	
8,000.00	0.00	0.00	7,802.69	1,471.69	141.85	1,471.74	0.00	0.00	0.00	
8,100.00	0.00	0.00	7,902.69	1,471.69	141.85	1,471.74	0.00	0.00	0.00	
8,200.00	0.00	0.00	8,002.69	1,471.69	141.85	1,471.74	0.00	0.00	0.00	
8,300.00	0.00	0.00	8,102.69	1,471.69	141.85	1,471.74	0.00	0.00	0.00	
8,390.31	0.00	0.00	8,193.00	1,471.69	141.85	1,471.74	0.00	0.00	0.00	
[BlueSteelSB#19H]KOP										
8,400.00	0.97	0.02	8,202.69	1,471.77	141.85	1,471.82	10.00	10.00	0.00	
8,450.00	5.97	0.02	8,252.58	1,474.80	141.85	1,474.85	10.00	10.00	0.00	
8,500.00	10.97	0.02	8,302.02	1,482.16	141.85	1,482.21	10.00	10.00	0.00	
8,550.00	15.97	0.02	8,350.63	1,493.80	141.86	1,493.85	10.00	10.00	0.00	
8,600.00	20.97	0.02	8,398.04	1,509.63	141.86	1,509.68	10.00	10.00	0.00	
8,650.00	25.97	0.02	8,443.89	1,529.54	141.87	1,529.59	10.00	10.00	0.00	
8,700.00	30.97	0.02	8,487.83	1,553.37	141.87	1,553.42	10.00	10.00	0.00	
8,750.00	35.97	0.02	8,529.52	1,580.93	141.88	1,580.98	10.00	10.00	0.00	
8,800.00	40.97	0.02	8,568.66	1,612.03	141.89	1,612.08	10.00	10.00	0.00	
8,850.00	45.97	0.02	8,604.93	1,646.41	141.90	1,646.46	10.00	10.00	0.00	
8,900.00	50.97	0.02	8,638.08	1,683.83	141.91	1,683.88	10.00	10.00	0.00	
8,950.00	55.97	0.02	8,667.83	1,724.00	141.92	1,724.04	10.00	10.00	0.00	
9,000.00	60.97	0.02	8,693.97	1,766.60	141.93	1,766.65	10.00	10.00	0.00	
9,050.00	65.97	0.02	8,716.30	1,811.32	141.94	1,811.37	10.00	10.00	0.00	
9,100.00	70.97	0.02	8,734.64	1,857.82	141.95	1,857.87	10.00	10.00	0.00	

Database	WellPlanner1	Local Co-ordinate Reference	Well SB #19H
Company	Marathon Oil	TVD Reference	Well @ 3031.00usft (GL: 3006' + KB: 25' (PD594))
Project	Eddy County, NM	MD Reference	Well @ 3031.00usft (GL: 3006' + KB: 25' (PD594))
Site	Blue Steel Fed Com 23-29-21	North Reference	Grid
Well	SB #19H	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)
9,150.00	75.97	0.02	8,748.86	1,905.73	141.97	1,905.78	10.00	10.00	0.00
9,200.00	80.97	0.02	8,758.86	1,954.71	141.98	1,954.76	10.00	10.00	0.00
9,250.00	85.97	0.02	8,764.54	2,004.37	141.99	2,004.42	10.00	10.00	0.00
9,290.31	90.00	0.02	8,765.96	2,044.65	142.00	2,044.69	10.00	10.00	0.00
9,300.00	90.00	0.02	8,765.96	2,054.34	142.01	2,054.39	0.00	0.00	0.00
9,400.00	90.00	0.02	8,765.96	2,154.34	142.03	2,154.39	0.00	0.00	0.00
9,500.00	90.00	0.02	8,765.96	2,254.34	142.06	2,254.39	0.00	0.00	0.00
9,600.00	90.00	0.02	8,765.96	2,354.34	142.09	2,354.39	0.00	0.00	0.00
9,700.00	90.00	0.02	8,765.96	2,454.34	142.11	2,454.39	0.00	0.00	0.00
9,800.00	90.00	0.02	8,765.96	2,554.34	142.14	2,554.39	0.00	0.00	0.00
9,900.00	90.00	0.02	8,765.96	2,654.34	142.17	2,654.39	0.00	0.00	0.00
10,000.00	90.00	0.02	8,765.96	2,754.34	142.19	2,754.39	0.00	0.00	0.00
10,100.00	90.00	0.02	8,765.96	2,854.34	142.22	2,854.39	0.00	0.00	0.00
10,200.00	90.00	0.02	8,765.96	2,954.34	142.25	2,954.39	0.00	0.00	0.00
10,300.00	90.00	0.02	8,765.96	3,054.34	142.28	3,054.39	0.00	0.00	0.00
10,400.00	90.00	0.02	8,765.96	3,154.34	142.30	3,154.39	0.00	0.00	0.00
10,500.00	90.00	0.02	8,765.96	3,254.34	142.33	3,254.39	0.00	0.00	0.00
10,600.00	90.00	0.02	8,765.96	3,354.34	142.36	3,354.39	0.00	0.00	0.00
10,700.00	90.00	0.02	8,765.96	3,454.34	142.38	3,454.39	0.00	0.00	0.00
10,800.00	90.00	0.02	8,765.96	3,554.34	142.41	3,554.39	0.00	0.00	0.00
10,900.00	90.00	0.02	8,765.96	3,654.34	142.44	3,654.39	0.00	0.00	0.00
11,000.00	90.00	0.02	8,765.97	3,754.34	142.46	3,754.39	0.00	0.00	0.00
11,100.00	90.00	0.02	8,765.97	3,854.34	142.49	3,854.39	0.00	0.00	0.00
11,200.00	90.00	0.02	8,765.97	3,954.34	142.52	3,954.39	0.00	0.00	0.00
11,300.00	90.00	0.02	8,765.97	4,054.34	142.54	4,054.39	0.00	0.00	0.00
11,400.00	90.00	0.02	8,765.97	4,154.34	142.57	4,154.39	0.00	0.00	0.00
11,500.00	90.00	0.02	8,765.97	4,254.34	142.60	4,254.39	0.00	0.00	0.00
11,600.00	90.00	0.02	8,765.97	4,354.34	142.63	4,354.39	0.00	0.00	0.00
11,700.00	90.00	0.02	8,765.97	4,454.34	142.65	4,454.39	0.00	0.00	0.00
11,800.00	90.00	0.02	8,765.97	4,554.34	142.68	4,554.39	0.00	0.00	0.00
11,900.00	90.00	0.02	8,765.97	4,654.34	142.71	4,654.39	0.00	0.00	0.00
12,000.00	90.00	0.02	8,765.97	4,754.34	142.73	4,754.39	0.00	0.00	0.00
12,100.00	90.00	0.02	8,765.97	4,854.34	142.76	4,854.39	0.00	0.00	0.00
12,200.00	90.00	0.02	8,765.97	4,954.34	142.79	4,954.39	0.00	0.00	0.00
12,300.00	90.00	0.02	8,765.97	5,054.34	142.81	5,054.39	0.00	0.00	0.00
12,400.00	90.00	0.02	8,765.97	5,154.34	142.84	5,154.39	0.00	0.00	0.00
12,500.00	90.00	0.02	8,765.97	5,254.34	142.87	5,254.39	0.00	0.00	0.00
12,600.00	90.00	0.02	8,765.97	5,354.34	142.89	5,354.39	0.00	0.00	0.00
12,700.00	90.00	0.02	8,765.97	5,454.34	142.92	5,454.39	0.00	0.00	0.00
12,800.00	90.00	0.02	8,765.97	5,554.34	142.95	5,554.39	0.00	0.00	0.00
12,900.00	90.00	0.02	8,765.97	5,654.34	142.97	5,654.39	0.00	0.00	0.00
13,000.00	90.00	0.02	8,765.97	5,754.34	143.00	5,754.39	0.00	0.00	0.00
13,100.00	90.00	0.02	8,765.97	5,854.34	143.03	5,854.39	0.00	0.00	0.00
13,200.00	90.00	0.02	8,765.97	5,954.34	143.06	5,954.39	0.00	0.00	0.00
13,300.00	90.00	0.02	8,765.98	6,054.34	143.08	6,054.39	0.00	0.00	0.00
13,400.00	90.00	0.02	8,765.98	6,154.34	143.11	6,154.39	0.00	0.00	0.00
13,500.00	90.00	0.02	8,765.98	6,254.34	143.14	6,254.39	0.00	0.00	0.00
13,600.00	90.00	0.02	8,765.98	6,354.34	143.16	6,354.39	0.00	0.00	0.00
13,700.00	90.00	0.02	8,765.98	6,454.34	143.19	6,454.39	0.00	0.00	0.00
13,800.00	90.00	0.02	8,765.98	6,554.34	143.22	6,554.39	0.00	0.00	0.00
13,900.00	90.00	0.02	8,765.98	6,654.34	143.24	6,654.39	0.00	0.00	0.00
14,000.00	90.00	0.02	8,765.98	6,754.34	143.27	6,754.39	0.00	0.00	0.00

Database	WellPlanner1	Local Co-ordinate Reference	Well SB #19H
Company	Marathon Oil	TVD Reference	Well @ 3031.00usft (GL: 3006' + KB: 25' (PD594))
Project	Eddy County, NM	MD Reference	Well @ 3031.00usft (GL: 3006' + KB: 25' (PD594))
Site	Blue Steel Fed Com 23-29-21	North Reference	Grid
Well	SB #19H	Survey/Calculation Method	Minimum Curvature
Wellbore	OH		
Design	Prelim Plan B		

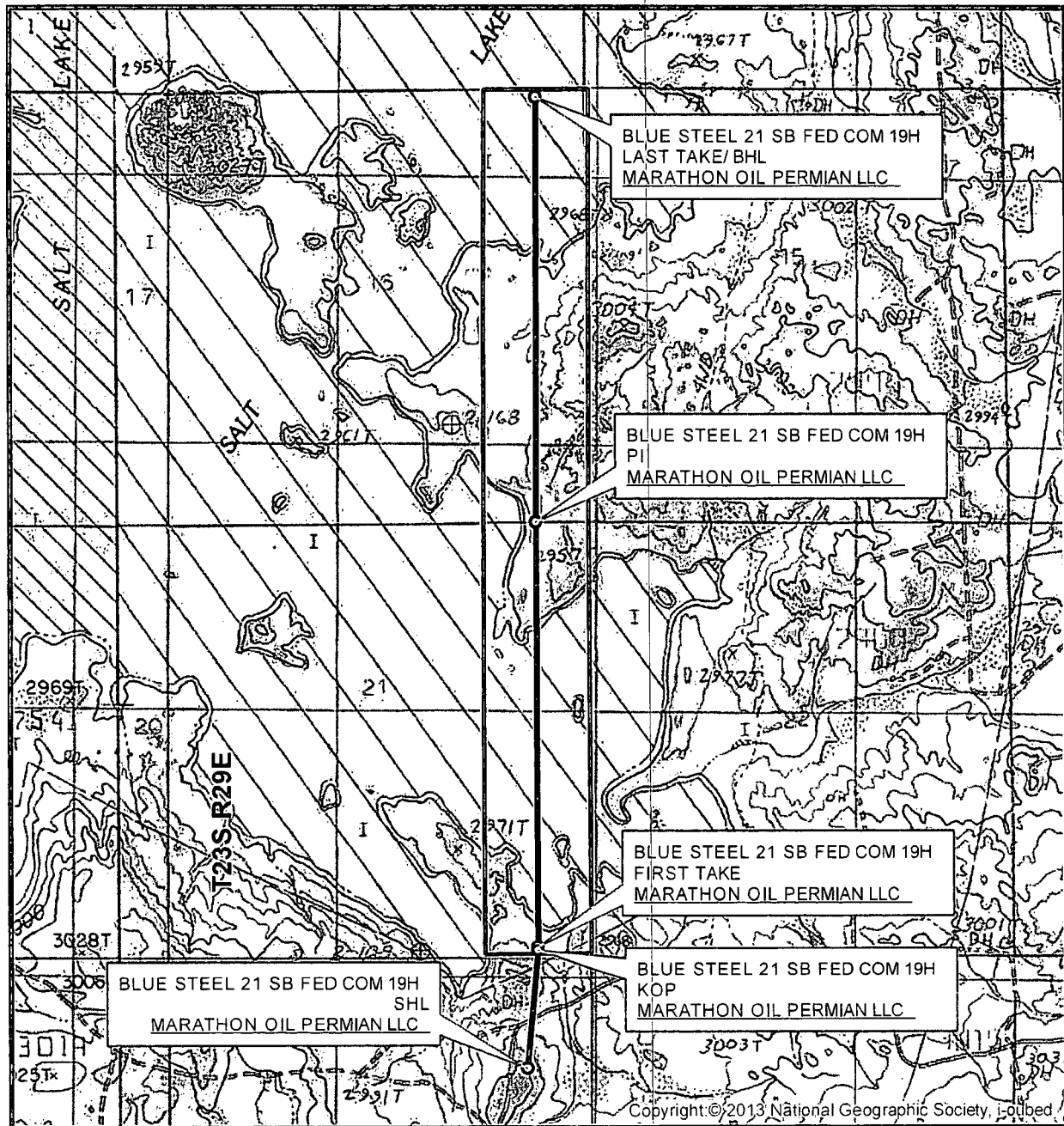
Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	N/S (usft)	E/W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
14,100.00	90.00	0.02	8,765.98	6,854.34	143.30	6,854.39	0.00	0.00	0.00	
14,200.00	90.00	0.02	8,765.98	6,954.34	143.32	6,954.39	0.00	0.00	0.00	
14,300.00	90.00	0.02	8,765.98	7,054.34	143.35	7,054.39	0.00	0.00	0.00	
14,400.00	90.00	0.02	8,765.98	7,154.34	143.38	7,154.39	0.00	0.00	0.00	
14,500.00	90.00	0.02	8,765.98	7,254.34	143.40	7,254.39	0.00	0.00	0.00	
14,600.00	90.00	0.02	8,765.98	7,354.34	143.43	7,354.39	0.00	0.00	0.00	
14,700.00	90.00	0.02	8,765.98	7,454.34	143.46	7,454.39	0.00	0.00	0.00	
14,800.00	90.00	0.02	8,765.98	7,554.34	143.49	7,554.39	0.00	0.00	0.00	
14,900.00	90.00	0.02	8,765.98	7,654.34	143.51	7,654.39	0.00	0.00	0.00	
15,000.00	90.00	0.02	8,765.98	7,754.34	143.54	7,754.39	0.00	0.00	0.00	
15,100.00	90.00	0.02	8,765.98	7,854.34	143.57	7,854.39	0.00	0.00	0.00	
15,200.00	90.00	0.02	8,765.98	7,954.34	143.59	7,954.39	0.00	0.00	0.00	
15,300.00	90.00	0.02	8,765.98	8,054.34	143.62	8,054.39	0.00	0.00	0.00	
15,400.00	90.00	0.02	8,765.98	8,154.34	143.65	8,154.39	0.00	0.00	0.00	
15,500.00	90.00	0.02	8,765.98	8,254.34	143.67	8,254.39	0.00	0.00	0.00	
15,600.00	90.00	0.02	8,765.98	8,354.34	143.70	8,354.39	0.00	0.00	0.00	
15,700.00	90.00	0.02	8,765.99	8,454.34	143.73	8,454.39	0.00	0.00	0.00	
15,800.00	90.00	0.02	8,765.99	8,554.34	143.75	8,554.39	0.00	0.00	0.00	
15,900.00	90.00	0.02	8,765.99	8,654.34	143.78	8,654.39	0.00	0.00	0.00	
16,000.00	90.00	0.02	8,765.99	8,754.34	143.81	8,754.39	0.00	0.00	0.00	
16,100.00	90.00	0.02	8,765.99	8,854.34	143.84	8,854.39	0.00	0.00	0.00	
16,200.00	90.00	0.02	8,765.99	8,954.34	143.86	8,954.39	0.00	0.00	0.00	
16,300.00	90.00	0.02	8,765.99	9,054.34	143.89	9,054.39	0.00	0.00	0.00	
16,400.00	90.00	0.02	8,765.99	9,154.34	143.92	9,154.39	0.00	0.00	0.00	
16,500.00	90.00	0.02	8,765.99	9,254.34	143.94	9,254.39	0.00	0.00	0.00	
16,600.00	90.00	0.02	8,765.99	9,354.34	143.97	9,354.39	0.00	0.00	0.00	
16,700.00	90.00	0.02	8,765.99	9,454.34	144.00	9,454.39	0.00	0.00	0.00	
16,800.00	90.00	0.02	8,765.99	9,554.34	144.02	9,554.39	0.00	0.00	0.00	
16,900.00	90.00	0.02	8,765.99	9,654.34	144.05	9,654.39	0.00	0.00	0.00	
17,000.00	90.00	0.02	8,765.99	9,754.34	144.08	9,754.39	0.00	0.00	0.00	
17,100.00	90.00	0.02	8,765.99	9,854.34	144.10	9,854.39	0.00	0.00	0.00	
17,200.00	90.00	0.02	8,765.99	9,954.34	144.13	9,954.39	0.00	0.00	0.00	
17,300.00	90.00	0.02	8,765.99	10,054.34	144.16	10,054.39	0.00	0.00	0.00	
17,400.00	90.00	0.02	8,765.99	10,154.34	144.18	10,154.39	0.00	0.00	0.00	
17,500.00	90.00	0.02	8,765.99	10,254.34	144.21	10,254.39	0.00	0.00	0.00	
17,600.00	90.00	0.02	8,765.99	10,354.34	144.24	10,354.39	0.00	0.00	0.00	
17,700.00	90.00	0.02	8,765.99	10,454.34	144.27	10,454.39	0.00	0.00	0.00	
17,800.00	90.00	0.02	8,765.99	10,554.34	144.29	10,554.39	0.00	0.00	0.00	
17,900.00	90.00	0.02	8,765.99	10,654.34	144.32	10,654.39	0.00	0.00	0.00	
18,000.00	90.00	0.02	8,766.00	10,754.34	144.35	10,754.39	0.00	0.00	0.00	
18,100.00	90.00	0.02	8,766.00	10,854.34	144.37	10,854.39	0.00	0.00	0.00	
18,200.00	90.00	0.02	8,766.00	10,954.34	144.40	10,954.39	0.00	0.00	0.00	
18,300.00	90.00	0.02	8,766.00	11,054.34	144.43	11,054.39	0.00	0.00	0.00	
18,400.00	90.00	0.02	8,766.00	11,154.34	144.45	11,154.39	0.00	0.00	0.00	
18,500.00	90.00	0.02	8,766.00	11,254.34	144.48	11,254.39	0.00	0.00	0.00	
18,600.00	90.00	0.02	8,766.00	11,354.34	144.51	11,354.39	0.00	0.00	0.00	
18,700.00	90.00	0.02	8,766.00	11,454.34	144.53	11,454.39	0.00	0.00	0.00	
18,800.00	90.00	0.02	8,766.00	11,554.34	144.56	11,554.39	0.00	0.00	0.00	
18,900.00	90.00	0.02	8,766.00	11,654.34	144.59	11,654.39	0.00	0.00	0.00	
19,000.00	90.00	0.02	8,766.00	11,754.34	144.61	11,754.39	0.00	0.00	0.00	
19,100.00	90.00	0.02	8,766.00	11,854.34	144.64	11,854.39	0.00	0.00	0.00	
19,205.21	90.00	0.02	8,766.00	11,959.55	144.67	11,959.60	0.00	0.00	0.00	

Database:	WellPlanner1	Local Co-ordinate Reference:	Well SB #19H Well @ 3031.00usft (GL: 3006' + KB: 25' (PD594)) Well @ 3031.00usft (GL: 3006' + KB: 25' (PD594)) Grid Minimum Curvature
Company:	Marathon Oil	TVD Reference:	
Project:	Eddy County, NM	MD Reference:	
Site:	Blue Steel Fed Com 23-29-21	North Reference:	
Well:	SB #19H	Survey Calculation Method:	
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)
[BlueSteelSB#19H]LTP/BHL									

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: 1420' FNL & 818' FEL
 ELEVATION: 3006'
 LEASE: BLUE STEEL 21 FED COM
 U.S.G.S. TOPOGRAPHIC MAP: REMUDA BASIN, NM.

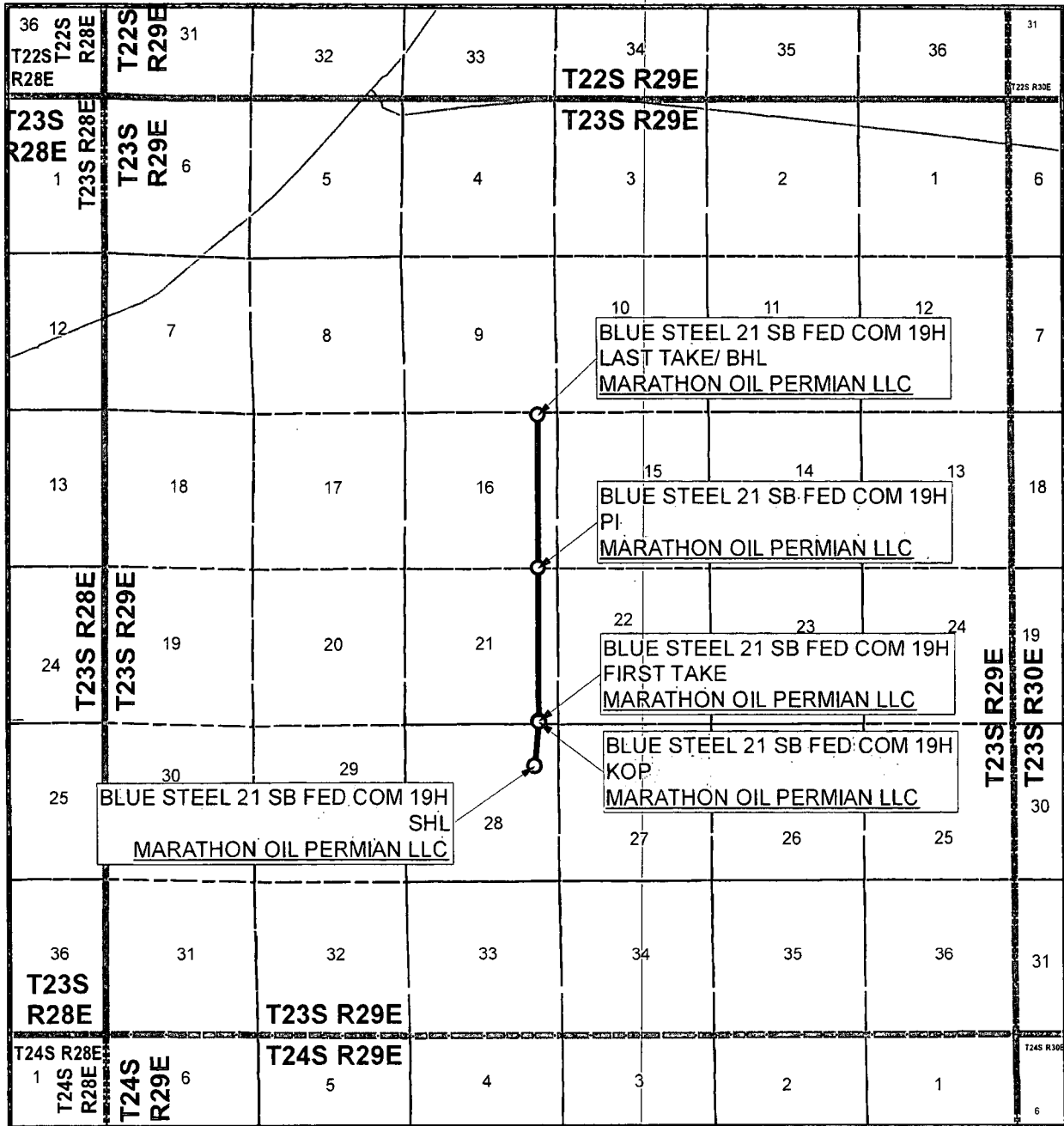
1" = 2,000'
 CONTOUR INTERVAL = 10'



SHEET 2 OF 3

PREPARED BY:
 R-SQUARED GLOBAL, LLC
 1309 LOUISVILLE AVENUE, MONROE, LA 71201
 318-323-6900 OFFICE
 JOB No. R3942_011

VICINITY MAP



SEC. 28 TWP. 23-S RGE. 29-E
 SURVEY: N.M.P.M.
 COUNTY: EDDY
 OPERATOR: MARATHON OIL PERMIAN LLC
 DESCRIPTION: 1420' FNL & 818' FEL
 ELEVATION: 3006'
 LEASE: BLUE STEEL 21 FED COM
 U.S.G.S. TOPOGRAPHIC MAP: REMUDA BASIN, NM.

1" = 1 MILE



SHEET 3 OF 3

PREPARED BY:
 R-SQUARED GLOBAL, LLC
 1309 LOUISVILLE AVENUE, MONROE, LA 71201
 318-323-6900 OFFICE
 JOB No. R3942_011