

USA

NEW MEXICO

TREBUCHET FEE 23 28 19 (WXY3H,WA5H,TB6H,WXY10H)

TREBUCHET FEE 23 28 19 WA 5H

30-015-44603

TREBUCHET FEE 23 28 19 WA 5H

Plan: PRELIM A

Survey Report - Geographic

13 December, 2017

NM OIL CONSERVATION
ARTESIA DISTRICT

DEC 21 2017

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Marathon Oil
Survey Report - Geographic

Company:	USA	Local Co-ordinate Reference:	Well TREBUCHET FEE 23 28 19 WA 5H
Project:	NEW MEXICO	TVD Reference:	RKB @ 3113.5usft
Site:	TREBUCHET FEE 23 28 19 (WXY3H,WA5H,TB6H,WXY10H)	MD Reference:	RKB @ 3113.5usft
Well:	TREBUCHET FEE 23 28 19 WA 5H	North Reference:	Grid
Wellbore:	TREBUCHET FEE 23 28 19 WA 5H	Survey Calculation Method:	Minimum Curvature
Design:	PRELIM A	Database:	EDMPROD

Project:	NEW MEXICO		
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:		TREBUCHET FEE 23 28 19 (WXY3H, WASH, TB6H, WXY10H)			
Site Position:		Northing:	467,096.80 usft	Latitude:	32° 17' 2.410 N
From:	Map	Easting:	562,703.28 usft	Longitude:	104° 7' 49.561 W
Position Uncertainty:	3.3 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.11 °

Well	TREBUCHET FEE 23 28 19 WA 5H, WELL 2 OF 4					
Well Position	+N-S	0.0 usft	Northing:	467,096.80 usft	Latitude:	32° 17' 2.411 N
	+E-W	0.0 usft	Easting:	562,673.28 usft	Longitude:	104° 7' 49.910 W
Position Uncertainty		1.1 usft	Wellhead Elevation:	0.0 usft	Ground Level:	3,087.0 usft

Wellbore		TREBUCHET FEE 23 28 19 WA 5H			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	12/13/2017	7.16	60.02	47,866

Design:	PRELIM A				
Audit Notes:					
Version:	Phase:	PROTOTYPE		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N-S	+E-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.0	0.0	0.0	359.95	

Survey Tool Program		Date 12/13/2017		
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
0.0	13,893.9	PRELIM A (TREBUCHET FEE 23 28 19 W	MWD	OWSG MWD - Standard

Planned Survey									
Measured			Vertical			Map	Map		
Depth	Inclination	Azimuth	Depth	+N-S	+E-W	Northing	Easting	Latitude	Longitude
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
0.0	0.00	0.00	0.0	0.0	0.0	467,096.80	562,673.28	32° 17' 2.411 N	104° 7' 49.910 W
2,500.0	0.00	0.00	2,500.0	0.0	0.0	467,096.80	562,673.28	32° 17' 2.411 N	104° 7' 49.910 W
3,000.0	5.00	12.44	2,999.4	21.3	4.7	467,118.09	562,677.98	32° 17' 2.621 N	104° 7' 49.855 W
3,239.2	5.00	12.44	3,237.6	41.6	9.2	467,138.45	562,682.47	32° 17' 2.823 N	104° 7' 49.802 W
3,739.2	0.00	0.00	3,737.0	62.9	13.9	467,159.74	562,687.16	32° 17' 3.033 N	104° 7' 49.747 W
8,912.2	0.00	0.00	8,910.0	62.9	13.9	467,159.74	562,687.16	32° 17' 3.033 N	104° 7' 49.747 W
9,812.2	90.00	359.95	9,483.0	635.9	13.4	467,732.70	562,686.66	32° 17' 8.703 N	104° 7' 49.740 W
13,893.9	90.00	359.95	9,483.0	4,717.6	9.8	471,814.37	562,683.10	32° 17' 49.097 N	104° 7' 49.692 W

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Checked By: _____	Approved By: _____	Date: _____
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