

Submit 1 Copy To Appropriate District Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO.
30-015-44604

5. Indicate Type of Lease
STATE ☐ FEE ☒

6. State Oil & Gas Lease No.

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

8. Well Number 6H

9. OGRID Number
372098

10. Pool name or Wildcat
Malaga; Bone Spring (North)

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well ☒ Gas Well ☐ Other

2. Name of Operator
Marathon Oil Permian LLC.

3. Address of Operator
5555 San Felipe St, Houston, TX 77056

4. Well Location
Unit Letter N : 270 feet from the South line and 1878 feet from the West line
Section 19 Township 23S Range 28E NMPM County Eddy

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

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐
CLOSED-LOOP SYSTEM ☐
OTHER: Sidetrack ☒

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐
OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Marathon Oil Permian LLC experienced high torque off-bottom while drilling the lateral at 11,600 ft MD. A decision made was to TOOH and found out that mud motor has parted and left ~ 18 ft of motor along with bearing assembly and bit. Plan forward is to perform an open hole side track at 11,338 ft, re-drill lateral and run and cement 5 1/2" casing. Attached is the sidetrack directional plan.

RECEIVED

MAY 07 2018

DISTRICT II-ARTESIA O.C.D.

Spud Date: 4/9/2018

Rig Release Date: 4/24/2018

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Adrian Covarrubias TITLE Environmental Engineer DATE 4/30/2018

Type or print name Adrian Covarrubias E-mail address: acovarrubias@marathonoil.com PHONE: 713-296-3368

For State Use Only

APPROVED BY: Raymond H. Rodary TITLE Geologist DATE 5-8-18

Conditions of Approval (if any):

Company:	Marathon Oil	Local Co-ordinate Reference:	Well TB #6H
Project:	Eddy County, NM	TVD Reference:	Well @ 3112.00usft (GL: 3087' + KB: 25' (Prec594))
Site:	Trebuchet Fee 23-28-19	MD Reference:	Well @ 3112.00usft (GL: 3087' + KB: 25' (Prec594))
Well:	TB #6H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	ST01- Plan#1	Database:	WellPlanner1

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	Trebuchet Fee 23-28-19		
Site Position:		Northing:	467,096.80 usft
From:	Map	Easting:	562,703.28 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.284003
		Longitude:	-104.130434
		Grid Convergence:	0.11 °

Well	TB #6H		
Well Position	+N/-S	0.00 usft	Northing: 467,096.80 usft
	+E/-W	0.00 usft	Easting: 562,703.28 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	32.284003
		Longitude:	-104.130434
		Ground Level:	3,087.00 usft

Wellbore	ST01		
Magnetics	Model Name	Sample Date	Declination (°)
	HDGM	4/1/2018	7.30
			Dip Angle (°) 60.05
			Field Strength (nT) 48,014.70

Design	ST01- Plan#1		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth: 11,338.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.00	0.00	0.00
			Direction (°) 359.95

Survey Tool Program	Date	4/19/2018		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
227.00	541.00	Survey #1 (OH)	MWD+IFR1	OWSG MWD + IFR1
595.00	11,338.00	Survey #2 (OH)	MWD+IFR1	OWSG MWD + IFR1
11,338.00	13,954.31	ST01- Plan#1 (ST01)	MWD+IFR1	OWSG MWD + IFR1

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	
227.00	0.50	63.00	227.00	0.45	0.88	0.45	0.22	0.22	0.00	
318.00	0.60	77.00	317.99	0.74	1.70	0.74	0.18	0.11	15.38	
409.00	1.60	94.00	408.98	0.76	3.43	0.75	1.14	1.10	18.68	
501.00	1.90	92.00	500.93	0.61	6.24	0.61	0.33	0.33	-2.17	
541.00	2.10	95.00	540.91	0.53	7.63	0.52	0.56	0.50	7.50	
595.00	2.50	86.60	594.86	0.51	9.79	0.50	0.97	0.74	-15.56	

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686.00	1.20	119.10	685.82	0.16	12.61	0.15	1.78	-1.43	35.71
777.00	2.10	238.50	776.80	-1.17	12.02	-1.18	3.17	0.99	131.21
869.00	3.70	244.10	868.68	-3.35	7.91	-3.36	1.76	1.74	6.09
960.00	3.70	242.50	959.49	-5.99	2.66	-5.99	0.11	0.00	-1.76
1,050.00	3.70	223.70	1,049.30	-9.43	-1.92	-9.43	1.34	0.00	-20.89
1,139.00	2.60	196.40	1,138.17	-13.44	-4.47	-13.44	2.06	-1.24	-30.67
1,228.00	2.40	133.50	1,227.10	-16.66	-3.69	-16.66	2.94	-0.22	-70.67
1,317.00	1.00	151.80	1,316.06	-18.63	-1.97	-18.63	1.67	-1.57	20.56
1,406.00	0.30	218.20	1,405.05	-19.50	-1.75	-19.49	1.04	-0.79	74.61
1,496.00	0.60	231.40	1,495.05	-19.97	-2.26	-19.97	0.35	0.33	14.67
1,585.00	0.60	203.50	1,584.05	-20.69	-2.81	-20.69	0.33	0.00	-31.35
1,674.00	1.50	112.90	1,673.04	-21.57	-1.93	-21.57	1.82	1.01	-101.80
1,763.00	2.90	105.10	1,761.97	-22.61	1.32	-22.61	1.60	1.57	-8.76
1,852.00	3.10	106.20	1,850.85	-23.87	5.80	-23.88	0.23	0.22	1.24
1,942.00	3.50	110.60	1,940.70	-25.52	10.71	-25.53	0.53	0.44	4.89
2,031.00	4.70	108.80	2,029.47	-27.65	16.71	-27.66	1.36	1.35	-2.02
2,120.00	5.50	113.10	2,118.11	-30.50	24.08	-30.52	1.00	0.90	4.83
2,210.00	5.70	114.90	2,207.68	-34.07	32.10	-34.10	0.30	0.22	2.00
2,299.00	5.10	117.60	2,296.29	-37.76	39.62	-37.80	0.73	-0.67	3.03
2,388.00	4.30	116.70	2,384.99	-41.10	46.11	-41.14	0.90	-0.90	-1.01
2,425.00	4.10	119.00	2,421.89	-42.36	48.50	-42.40	0.71	-0.54	6.22
2,564.00	3.20	116.00	2,560.61	-46.47	56.33	-46.52	0.66	-0.65	-2.16
2,653.00	3.30	112.80	2,649.46	-48.55	60.93	-48.60	0.23	0.11	-3.60
2,742.00	3.40	114.30	2,738.31	-50.63	65.70	-50.69	0.15	0.11	1.69
2,832.00	3.40	115.20	2,828.15	-52.86	70.54	-52.93	0.06	0.00	1.00
2,921.00	3.20	112.50	2,917.01	-54.94	75.23	-55.00	0.28	-0.22	-3.03
3,010.00	3.30	111.40	3,005.86	-56.82	79.91	-56.89	0.13	0.11	-1.24
3,099.00	3.30	113.30	3,094.72	-58.77	84.64	-58.85	0.12	0.00	2.13
3,189.00	3.50	108.50	3,184.56	-60.67	89.63	-60.75	0.39	0.22	-5.33
3,278.00	4.80	107.90	3,273.32	-62.67	95.75	-62.76	1.46	1.46	-0.67
3,367.00	6.00	110.30	3,361.93	-65.43	103.65	-65.52	1.37	1.35	2.70
3,457.00	6.00	108.50	3,451.43	-68.56	112.53	-68.66	0.21	0.00	-2.00
3,546.00	5.80	108.30	3,539.96	-71.45	121.21	-71.55	0.23	-0.22	-0.22
3,635.00	5.50	107.70	3,628.53	-74.15	129.54	-74.27	0.34	-0.34	-0.67
3,724.00	5.40	108.10	3,717.13	-76.75	137.58	-76.87	0.12	-0.11	0.45
3,813.00	5.20	108.80	3,805.75	-79.35	145.38	-79.48	0.24	-0.22	0.79
3,902.00	6.60	113.10	3,894.27	-82.66	153.91	-82.79	1.65	1.57	4.83
3,991.00	7.00	112.70	3,982.65	-86.76	163.61	-86.90	0.45	0.45	-0.45
4,080.00	7.40	112.00	4,070.94	-91.00	173.93	-91.15	0.46	0.45	-0.79
4,169.00	7.60	115.70	4,159.18	-95.70	184.55	-95.86	0.59	0.22	4.16
4,258.00	8.30	122.90	4,247.33	-101.74	195.25	-101.91	1.37	0.79	8.09
4,347.00	8.20	122.00	4,335.41	-108.59	206.02	-108.77	0.18	-0.11	-1.01

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4,436.00	7.50	121.50	4,423.57	-114.99	216.36	-115.18	0.79	-0.79	-0.56	
4,526.00	6.80	122.20	4,512.87	-120.90	225.87	-121.10	0.78	-0.78	0.78	
4,615.00	6.20	122.40	4,601.30	-126.28	234.39	-126.49	0.67	-0.67	0.22	
4,704.00	5.20	124.10	4,689.86	-131.12	241.79	-131.33	1.14	-1.12	1.91	
4,793.00	4.20	124.50	4,778.56	-135.23	247.81	-135.44	1.12	-1.12	0.45	
4,883.00	4.20	123.70	4,868.32	-138.92	253.27	-139.14	0.07	0.00	-0.89	
4,972.00	4.30	123.50	4,957.07	-142.57	258.76	-142.80	0.11	0.11	-0.22	
5,062.00	3.80	126.70	5,046.85	-146.22	263.97	-146.45	0.61	-0.56	3.56	
5,151.00	3.50	129.70	5,135.67	-149.71	268.42	-149.95	0.40	-0.34	3.37	
5,240.00	3.00	129.20	5,224.52	-152.92	272.32	-153.16	0.56	-0.56	-0.56	
5,330.00	2.70	127.00	5,314.41	-155.69	275.84	-155.93	0.35	-0.33	-2.44	
5,419.00	2.20	133.10	5,403.33	-158.11	278.76	-158.36	0.63	-0.56	6.85	
5,509.00	1.90	129.50	5,493.27	-160.24	281.17	-160.49	0.36	-0.33	-4.00	
5,598.00	1.60	128.40	5,582.23	-161.95	283.28	-162.20	0.34	-0.34	-1.24	
5,687.00	1.40	130.40	5,671.20	-163.43	285.09	-163.68	0.23	-0.22	2.25	
5,776.00	1.30	133.30	5,760.18	-164.83	286.65	-165.08	0.14	-0.11	3.26	
5,865.00	1.40	147.60	5,849.15	-166.44	287.97	-166.69	0.39	0.11	16.07	
5,955.00	1.90	117.70	5,939.12	-168.06	289.88	-168.31	1.09	0.56	-33.22	
6,044.00	1.80	106.30	6,028.07	-169.14	292.52	-169.39	0.43	-0.11	-12.81	
6,133.00	0.90	136.60	6,117.05	-170.04	294.35	-170.29	1.26	-1.01	34.04	
6,222.00	0.70	222.10	6,206.04	-170.95	294.46	-171.21	1.23	-0.22	96.07	
6,311.00	0.50	135.10	6,295.04	-171.63	294.37	-171.88	0.94	-0.22	-97.75	
6,400.00	2.60	102.60	6,384.00	-172.34	296.62	-172.60	2.47	2.36	-36.52	
6,489.00	2.50	104.10	6,472.91	-173.26	300.47	-173.52	0.14	-0.11	1.69	
6,582.00	2.00	125.80	6,565.84	-174.70	303.75	-174.96	1.05	-0.54	23.33	
6,671.00	1.60	130.10	6,654.80	-176.41	305.96	-176.68	0.47	-0.45	4.83	
6,762.00	1.90	137.40	6,745.75	-178.34	307.95	-178.61	0.41	0.33	8.02	
6,850.00	2.10	135.60	6,833.70	-180.56	310.07	-180.83	0.24	0.23	-2.05	
6,940.00	0.90	172.20	6,923.67	-182.44	311.32	-182.71	1.64	-1.33	40.67	
7,029.00	0.70	204.50	7,012.66	-183.63	311.19	-183.90	0.54	-0.22	36.29	
7,119.00	0.90	206.10	7,102.65	-184.76	310.65	-185.03	0.22	0.22	1.78	
7,208.00	0.90	194.50	7,191.64	-186.07	310.17	-186.34	0.20	0.00	-13.03	
7,297.00	1.50	189.20	7,280.62	-187.89	309.81	-188.17	0.68	0.67	-5.96	
7,386.00	1.30	196.60	7,369.60	-190.01	309.33	-190.28	0.30	-0.22	8.31	
7,475.00	1.80	206.80	7,458.56	-192.23	308.41	-192.50	0.64	0.56	11.46	
7,564.00	0.70	269.20	7,547.54	-193.48	307.24	-193.75	1.80	-1.24	70.11	
7,653.00	0.40	232.40	7,636.54	-193.68	306.45	-193.95	0.50	-0.34	-41.35	
7,743.00	0.60	256.50	7,726.54	-193.98	305.74	-194.25	0.32	0.22	26.78	
7,832.00	0.40	251.50	7,815.53	-194.19	304.99	-194.45	0.23	-0.22	-5.62	
7,921.00	0.60	221.20	7,904.53	-194.64	304.39	-194.90	0.37	0.22	-34.04	
8,011.00	0.80	8.60	7,994.53	-194.37	304.18	-194.64	1.49	0.22	163.78	
8,100.00	0.60	331.00	8,083.52	-193.35	304.04	-193.61	0.55	-0.22	-42.25	

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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)
8,189.00	0.30	326.60	8,172.52	-192.75	303.69	-193.01	0.34	-0.34	-4.94
8,278.00	0.40	13.40	8,261.52	-192.25	303.63	-192.52	0.33	0.11	52.58
8,367.00	1.00	91.70	8,350.51	-191.97	304.48	-192.24	1.12	0.67	87.98
8,457.00	1.60	99.50	8,440.49	-192.20	306.51	-192.47	0.69	0.67	8.67
8,525.00	1.50	82.20	8,508.46	-192.24	308.32	-192.51	0.70	-0.15	-25.44
8,542.00	1.60	86.00	8,525.46	-192.19	308.78	-192.46	0.84	0.59	22.35
8,631.00	1.70	63.00	8,614.42	-191.51	311.20	-191.78	0.75	0.11	-25.84
8,720.00	5.50	15.80	8,703.24	-186.80	313.54	-187.07	5.08	4.27	-53.03
8,765.00	11.70	358.80	8,747.72	-180.16	314.03	-180.43	14.75	13.78	-37.78
8,810.00	15.00	355.60	8,791.50	-169.78	313.49	-170.06	7.51	7.33	-7.11
8,854.00	16.90	348.60	8,833.81	-157.84	311.78	-158.11	6.14	4.32	-15.91
8,899.00	22.10	349.00	8,876.21	-143.10	308.87	-143.37	11.56	11.56	0.89
8,944.00	26.70	349.70	8,917.18	-124.84	305.45	-125.10	10.24	10.22	1.56
8,989.00	31.30	353.20	8,956.53	-103.27	302.26	-103.53	10.89	10.22	7.78
9,034.00	37.30	357.20	8,993.69	-78.02	300.20	-78.28	14.24	13.33	8.89
9,079.00	43.00	0.10	9,028.08	-49.03	299.56	-49.29	13.33	12.67	6.44
9,123.00	47.20	0.90	9,059.13	-17.87	299.84	-18.13	9.63	9.55	1.82
9,168.00	50.80	1.00	9,088.65	16.08	300.41	15.82	8.00	8.00	0.22
9,213.00	55.00	357.90	9,115.79	51.95	300.04	51.69	10.83	9.33	-6.89
9,257.00	59.70	359.70	9,139.52	88.98	299.28	88.72	11.22	10.68	4.09
9,302.00	63.70	1.10	9,160.85	128.59	299.56	128.33	9.30	8.89	3.11
9,346.00	66.60	2.40	9,179.34	168.49	300.79	168.23	7.12	6.59	2.95
9,391.00	69.50	3.40	9,196.16	210.17	302.90	209.91	6.77	6.44	2.22
9,436.00	72.70	3.00	9,210.74	252.67	305.28	252.41	7.16	7.11	-0.89
9,481.00	77.80	0.60	9,222.19	296.15	306.63	295.88	12.45	11.33	-5.33
9,525.00	82.40	358.90	9,229.76	339.48	306.44	339.22	11.13	10.45	-3.86
9,549.00	84.10	358.00	9,232.58	363.31	305.79	363.04	8.00	7.08	-3.75
9,639.00	88.20	357.40	9,238.62	453.01	302.19	452.75	4.60	4.56	-0.67
9,728.00	90.80	357.40	9,239.39	541.91	298.15	541.65	2.92	2.92	0.00
9,817.00	92.30	358.50	9,236.99	630.82	294.97	630.56	2.09	1.69	1.24
9,907.00	92.50	359.90	9,233.22	720.73	293.71	720.47	1.57	0.22	1.56
9,997.00	91.10	0.70	9,230.39	810.68	294.18	810.42	1.79	-1.56	0.89
10,086.00	91.80	2.00	9,228.14	899.62	296.28	899.36	1.66	0.79	1.46
10,175.00	91.00	2.40	9,225.97	988.53	299.70	988.27	1.00	-0.90	0.45
10,265.00	89.10	1.50	9,225.89	1,078.47	302.76	1,078.21	2.34	-2.11	-1.00
10,354.00	89.80	1.00	9,226.74	1,167.45	304.70	1,167.18	0.97	0.79	-0.56
10,444.00	89.50	1.70	9,227.29	1,257.42	306.82	1,257.15	0.85	-0.33	0.78
10,533.00	90.30	2.10	9,227.45	1,346.37	309.77	1,346.10	1.00	0.90	0.45
10,623.00	89.80	2.40	9,227.37	1,436.30	313.30	1,436.02	0.65	-0.56	0.33
10,712.00	89.50	2.60	9,227.91	1,525.21	317.19	1,524.93	0.41	-0.34	0.22
10,802.00	88.80	1.60	9,229.25	1,615.14	320.48	1,614.86	1.36	-0.78	-1.11
10,891.00	90.50	1.30	9,229.79	1,704.11	322.74	1,703.82	1.94	1.91	-0.34

Company:	Marathon Oil	Local Co-ordinate Reference:	Well TB #6H
Project:	Eddy County, NM	TVD Reference:	Well @ 3112.00usft (GL: 3087' + KB: 25' (Prec594))
Site:	Trebuchet Fee 23-28-19	MD Reference:	Well @ 3112.00usft (GL: 3087' + KB: 25' (Prec594))
Well:	TB #6H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	ST01- Plan#1	Database:	WellPlanner1

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)
10,980.00	90.10	1.40	9,229.32	1,793.08	324.83	1,792.80	0.46	-0.45	0.11
11,070.00	88.50	0.30	9,230.42	1,883.06	326.17	1,882.77	2.16	-1.78	-1.22
11,160.00	89.60	359.90	9,231.92	1,973.05	326.32	1,972.76	1.30	1.22	-0.44
11,249.00	88.60	0.50	9,233.31	2,062.03	326.64	2,061.75	1.31	-1.12	0.67
11,338.00	89.10	0.60	9,235.10	2,151.01	327.49	2,150.72	0.57	0.56	0.11
11,350.00	88.98	359.89	9,235.30	2,163.01	327.54	2,162.72	6.00	-1.04	-5.91
11,363.00	88.84	359.12	9,235.55	2,176.01	327.43	2,175.72	6.00	-1.04	-5.91
11,400.00	88.80	356.90	9,236.31	2,212.97	326.15	2,212.69	6.00	-0.10	-6.00
11,450.00	88.76	353.90	9,237.38	2,262.79	322.14	2,262.51	6.00	-0.09	-6.00
11,500.00	88.71	350.90	9,238.48	2,312.34	315.53	2,312.06	6.00	-0.09	-6.00
11,515.02	88.70	350.00	9,238.82	2,327.15	313.04	2,326.88	6.00	-0.08	-6.00
11,600.00	89.07	352.52	9,240.47	2,411.12	300.13	2,410.85	3.00	0.43	2.97
11,700.00	89.51	355.49	9,241.72	2,510.55	289.69	2,510.30	3.00	0.44	2.97
11,800.00	89.94	358.46	9,242.20	2,610.40	284.42	2,610.15	3.00	0.44	2.97
11,900.00	90.38	1.43	9,241.92	2,710.39	284.32	2,710.14	3.00	0.44	2.97
11,985.12	90.75	3.95	9,241.08	2,795.40	288.31	2,795.15	3.00	0.44	2.97
12,000.00	90.75	3.95	9,240.88	2,810.25	289.34	2,809.99	0.00	0.00	0.00
12,100.00	90.75	3.95	9,239.57	2,910.00	296.23	2,909.74	0.00	0.00	0.00
12,200.00	90.75	3.95	9,238.26	3,009.75	303.13	3,009.49	0.00	0.00	0.00
12,242.44	90.75	3.95	9,237.70	3,052.09	306.05	3,051.82	0.00	0.00	0.00
12,300.00	90.27	2.29	9,237.18	3,109.56	309.19	3,109.29	3.00	-0.83	-2.88
12,381.31	89.60	359.95	9,237.27	3,190.85	310.78	3,190.58	3.00	-0.83	-2.88
12,400.00	89.60	359.95	9,237.40	3,209.54	310.77	3,209.26	0.00	0.00	0.00
12,500.00	89.60	359.95	9,238.10	3,309.53	310.68	3,309.26	0.00	0.00	0.00
12,600.00	89.60	359.95	9,238.80	3,409.53	310.59	3,409.26	0.00	0.00	0.00
12,700.00	89.60	359.95	9,239.50	3,509.53	310.51	3,509.26	0.00	0.00	0.00
12,800.00	89.60	359.95	9,240.20	3,609.53	310.42	3,609.25	0.00	0.00	0.00
12,900.00	89.60	359.95	9,240.89	3,709.52	310.33	3,709.25	0.00	0.00	0.00
13,000.00	89.60	359.95	9,241.59	3,809.52	310.24	3,809.25	0.00	0.00	0.00
13,100.00	89.60	359.95	9,242.29	3,909.52	310.16	3,909.25	0.00	0.00	0.00
13,200.00	89.60	359.95	9,242.99	4,009.52	310.07	4,009.24	0.00	0.00	0.00
13,300.00	89.60	359.95	9,243.69	4,109.51	309.98	4,109.24	0.00	0.00	0.00
13,400.00	89.60	359.95	9,244.38	4,209.51	309.89	4,209.24	0.00	0.00	0.00
13,500.00	89.60	359.95	9,245.08	4,309.51	309.81	4,309.24	0.00	0.00	0.00
13,600.00	89.60	359.95	9,245.78	4,409.51	309.72	4,409.23	0.00	0.00	0.00
13,700.00	89.60	359.95	9,246.48	4,509.50	309.63	4,509.23	0.00	0.00	0.00
13,800.00	89.60	359.95	9,247.18	4,609.50	309.55	4,609.23	0.00	0.00	0.00
13,909.31	89.60	359.95	9,247.94	4,718.81	309.45	4,718.54	0.00	0.00	0.00
[TrebuchetTB#6H]LTP/BHL									
13,954.31	89.60	359.95	9,248.25	4,763.81	309.41	4,763.54	0.00	0.00	0.00

Company:	Marathon Oil	Local Co-ordinate Reference:	Well TB #6H
Project:	Eddy County, NM	TVD Reference:	Well @ 3112.00usft (GL: 3087' + KB: 25' (Prec594))
Site:	Trebuchet Fee 23-28-19	MD Reference:	Well @ 3112.00usft (GL: 3087' + KB: 25' (Prec594))
Well:	TB #6H	North Reference:	Grid:
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	ST01- Plan#1	Database:	WellPlanner1

Design Targets									
Target Name	hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	
[TrebuchetTB#6H]LTP/B		0.00	0.00	9,247.94	4,718.81	309.45	471,815.61	563,012.73	Latitude
- plan hits target center									Longitude
- Point									

Checked By: _____ Approved By: _____ Date: _____



Marathon Oil
Eddy County, NM
Trebuchet Fee 23-28-19
TB #6H
ST01- Plan#1
GL: 3087' + KB: 25' (Prec594)

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

RKB Elevation: Well @ 3112.00usft (GL: 3087' + KB: 25' (Prec594))

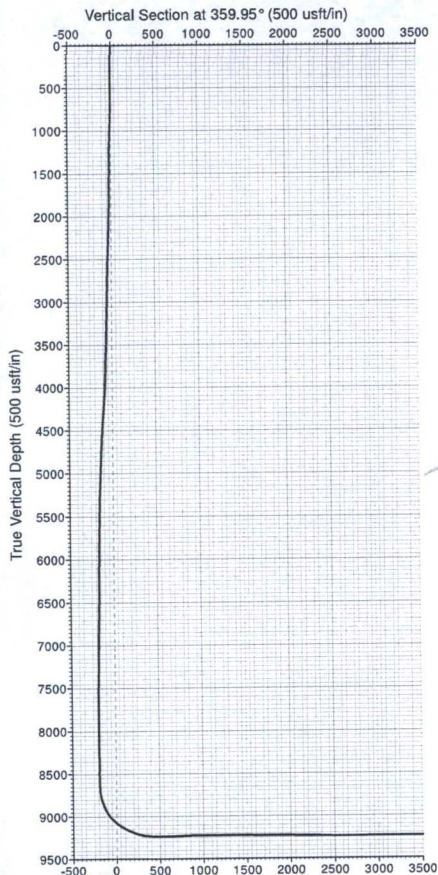
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	467096.80	562703.28	32.284003	-104.130434	

SECTION DETAILS

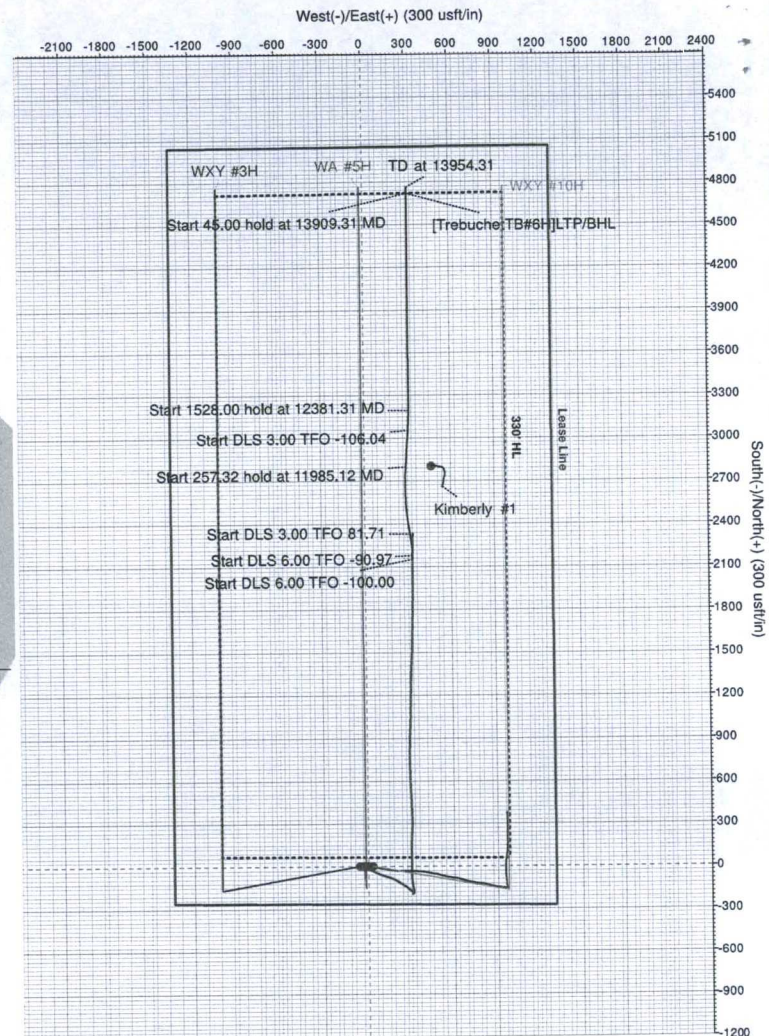
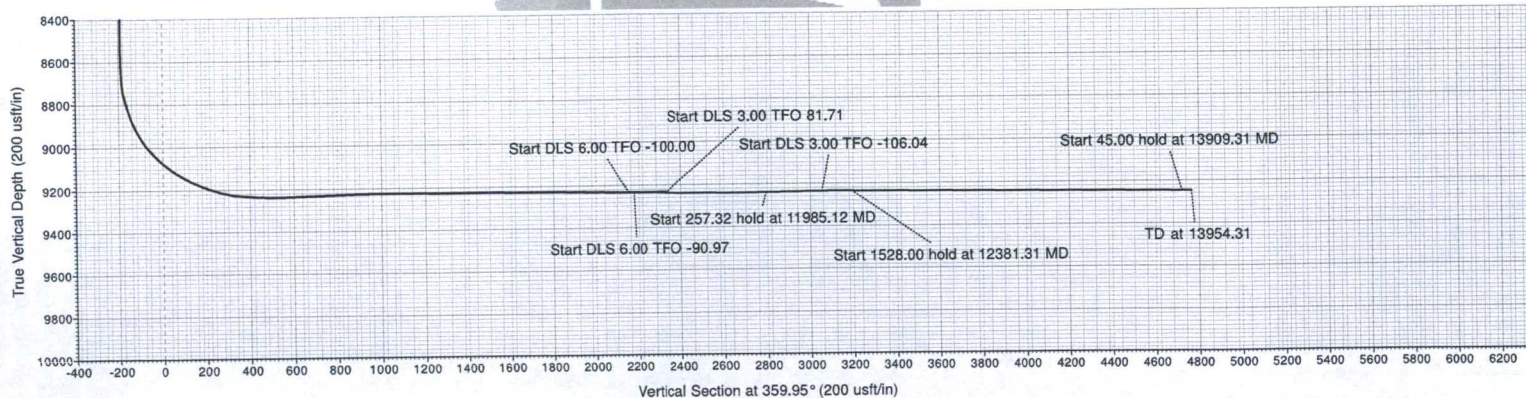
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	Vsect
1	11338.00	89.10	0.60	9235.10	2151.01	327.49	0.00	2150.72
2	11363.00	88.84	359.12	9235.55	2176.01	327.43	6.00	2175.72
3	11515.02	88.70	350.00	9238.82	2327.15	313.04	6.00	2326.88
4	11985.12	90.75	3.95	9241.08	2795.40	288.31	3.00	2795.15
5	12242.44	90.75	3.95	9237.70	3052.09	306.05	0.00	3051.82
6	12381.31	89.60	359.95	9237.27	3190.85	310.78	3.00	3190.58
7	13909.31	89.60	359.95	9247.94	4718.81	309.45	0.00	4718.54
8	13954.31	89.60	359.95	9248.25	4763.81	309.41	0.00	4763.54

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
[TrebuchetTB#6H]LTP/BHL	9247.94	4718.81	309.45	471815.61	563012.73



Target Line: 9215' TVD @ 0' VS: 89.6° INC



Azimuths to Grid North
True North: -0.11°
Magnetic North: 7.19°

Magnetic Field
Strength: 48014.7nT
Dip Angle: 60.05°
Date: 4/1/2018
Model: HDGM

Azimuth Corrections

Total Magnetic Corr. (M to G): 7.19°

Declination (M to T): 7.30° East