

Company:	Marathon Oil	Local Co-ordinate Reference:	Well No. 6H
Project:	Lea County, NM	TVD Reference:	Well @ 3473.50usft (GL 3447' + KB: 26.5' (H&P480))
Site:	Knife Fight Fee 3-6-7-19	MD Reference:	Well @ 3473.50usft (GL 3447' + KB: 26.5' (H&P480))
Well:	No. 6H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Prelim Plan B	Database:	WellPlanner1

Project	Lea 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		Knife Fight Fee 3-6-7-19			
Site Position:		Northing:	435,782.47 usft	Latitude:	32° 11' 41.6202 N
From:	Map	Easting:	777,788.07 usft	Longitude:	103° 26' 7.2196 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.48 °

Well	No. 6H					
Well Position	+N/-S	0.00 usft	Northing:	435,782.47 usft	Latitude:	32° 11' 41.6252 N
	+E/-W	0.00 usft	Easting:	777,728.07 usft	Longitude:	103° 26' 7.9178 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,447.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	10/25/2017	6.77	59.95	48,063.30

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	179.51	

Survey Tool Program	Date	2/21/2018			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	5,000.00	Prelim Plan B (OH)	MWD+IFR1	OWSG MWD + IFR1	
5,000.00	10,000.00	Prelim Plan B (OH)	MWD+IFR1	OWSG MWD + IFR1	
10,000.00	17,412.37	Prelim Plan B (OH)	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	
[KnifeFight#6H]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	

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Site:	Knife Fight Fee 3-6-7-19	MD Reference:	Well @ 3473.50usft (GL 3447' + KB: 26.5' (H&P480))
Well:	No. 6H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Prelim Plan B	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)
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	0.75	318.58	1,600.00	0.49	-0.43	-0.49	0.75	0.75	0.00
1,700.00	1.50	318.58	1,699.98	1.96	-1.73	-1.98	0.75	0.75	0.00
1,800.00	2.25	318.58	1,799.92	4.42	-3.90	-4.45	0.75	0.75	0.00
1,900.00	3.00	318.58	1,899.82	7.85	-6.93	-7.91	0.75	0.75	0.00
2,000.00	3.75	318.58	1,999.64	12.26	-10.82	-12.36	0.75	0.75	0.00
2,100.00	4.50	318.58	2,099.38	17.66	-15.58	-17.79	0.75	0.75	0.00
2,200.00	5.25	318.58	2,199.02	24.03	-21.20	-24.21	0.75	0.75	0.00
2,300.00	6.00	318.58	2,298.54	31.38	-27.69	-31.62	0.75	0.75	0.00
2,400.00	6.75	318.58	2,397.92	39.71	-35.03	-40.00	0.75	0.75	0.00
2,500.00	7.50	318.58	2,497.15	49.01	-43.24	-49.37	0.75	0.75	0.00
2,600.00	8.25	318.58	2,596.20	59.28	-52.31	-59.73	0.75	0.75	0.00
2,700.00	9.00	318.58	2,695.07	70.53	-62.23	-71.05	0.75	0.75	0.00
2,800.00	9.75	318.58	2,793.73	82.74	-73.01	-83.36	0.75	0.75	0.00
2,833.33	10.00	318.58	2,826.57	87.03	-76.79	-87.68	0.75	0.75	0.00
2,900.00	10.00	318.58	2,892.23	95.71	-84.45	-96.43	0.00	0.00	0.00
2,969.30	10.00	318.58	2,960.48	104.73	-92.41	-105.52	0.00	0.00	0.00
3,000.00	9.69	318.58	2,990.72	108.67	-95.88	-109.48	1.00	-1.00	0.00
3,100.00	8.69	318.58	3,089.44	120.65	-106.45	-121.55	1.00	-1.00	0.00
3,200.00	7.69	318.58	3,188.42	131.33	-115.88	-132.32	1.00	-1.00	0.00
3,300.00	6.69	318.58	3,287.63	140.72	-124.17	-141.78	1.00	-1.00	0.00
3,400.00	5.69	318.58	3,387.04	148.81	-131.30	-149.93	1.00	-1.00	0.00
3,500.00	4.69	318.58	3,486.63	155.60	-137.29	-156.76	1.00	-1.00	0.00
3,600.00	3.69	318.58	3,586.36	161.08	-142.13	-162.29	1.00	-1.00	0.00
3,700.00	2.69	318.58	3,686.21	165.26	-145.81	-166.50	1.00	-1.00	0.00
3,800.00	1.69	318.58	3,786.13	168.12	-148.35	-169.39	1.00	-1.00	0.00
3,900.00	0.69	318.58	3,886.11	169.69	-149.72	-170.96	1.00	-1.00	0.00
3,969.30	0.00	0.00	3,955.41	170.00	-150.00	-171.28	1.00	-1.00	0.00
4,000.00	0.00	0.00	3,986.11	170.00	-150.00	-171.28	0.00	0.00	0.00
4,100.00	0.00	0.00	4,086.11	170.00	-150.00	-171.28	0.00	0.00	0.00
4,200.00	0.00	0.00	4,186.11	170.00	-150.00	-171.28	0.00	0.00	0.00
4,300.00	0.00	0.00	4,286.11	170.00	-150.00	-171.28	0.00	0.00	0.00
4,400.00	0.00	0.00	4,386.11	170.00	-150.00	-171.28	0.00	0.00	0.00

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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
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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)
4,500.00	0.00	0.00	4,486.11	170.00	-150.00	-171.28	0.00	0.00	0.00
4,600.00	0.00	0.00	4,586.11	170.00	-150.00	-171.28	0.00	0.00	0.00
4,700.00	0.00	0.00	4,686.11	170.00	-150.00	-171.28	0.00	0.00	0.00
4,800.00	0.00	0.00	4,786.11	170.00	-150.00	-171.28	0.00	0.00	0.00
4,900.00	0.00	0.00	4,886.11	170.00	-150.00	-171.28	0.00	0.00	0.00
5,000.00	0.00	0.00	4,986.11	170.00	-150.00	-171.28	0.00	0.00	0.00
5,100.00	0.00	0.00	5,086.11	170.00	-150.00	-171.28	0.00	0.00	0.00
5,200.00	0.00	0.00	5,186.11	170.00	-150.00	-171.28	0.00	0.00	0.00
5,300.00	0.00	0.00	5,286.11	170.00	-150.00	-171.28	0.00	0.00	0.00
5,400.00	0.00	0.00	5,386.11	170.00	-150.00	-171.28	0.00	0.00	0.00
5,500.00	0.00	0.00	5,486.11	170.00	-150.00	-171.28	0.00	0.00	0.00
5,600.00	0.00	0.00	5,586.11	170.00	-150.00	-171.28	0.00	0.00	0.00
5,700.00	0.00	0.00	5,686.11	170.00	-150.00	-171.28	0.00	0.00	0.00
5,800.00	0.00	0.00	5,786.11	170.00	-150.00	-171.28	0.00	0.00	0.00
5,900.00	0.00	0.00	5,886.11	170.00	-150.00	-171.28	0.00	0.00	0.00
6,000.00	0.00	0.00	5,986.11	170.00	-150.00	-171.28	0.00	0.00	0.00
6,100.00	0.00	0.00	6,086.11	170.00	-150.00	-171.28	0.00	0.00	0.00
6,200.00	0.00	0.00	6,186.11	170.00	-150.00	-171.28	0.00	0.00	0.00
6,300.00	0.00	0.00	6,286.11	170.00	-150.00	-171.28	0.00	0.00	0.00
6,400.00	0.00	0.00	6,386.11	170.00	-150.00	-171.28	0.00	0.00	0.00
6,500.00	0.00	0.00	6,486.11	170.00	-150.00	-171.28	0.00	0.00	0.00
6,600.00	0.00	0.00	6,586.11	170.00	-150.00	-171.28	0.00	0.00	0.00
6,700.00	0.00	0.00	6,686.11	170.00	-150.00	-171.28	0.00	0.00	0.00
6,800.00	0.00	0.00	6,786.11	170.00	-150.00	-171.28	0.00	0.00	0.00
6,900.00	0.00	0.00	6,886.11	170.00	-150.00	-171.28	0.00	0.00	0.00
7,000.00	0.00	0.00	6,986.11	170.00	-150.00	-171.28	0.00	0.00	0.00
7,100.00	0.00	0.00	7,086.11	170.00	-150.00	-171.28	0.00	0.00	0.00
7,200.00	0.00	0.00	7,186.11	170.00	-150.00	-171.28	0.00	0.00	0.00
7,300.00	0.00	0.00	7,286.11	170.00	-150.00	-171.28	0.00	0.00	0.00
7,400.00	0.00	0.00	7,386.11	170.00	-150.00	-171.28	0.00	0.00	0.00
7,500.00	0.00	0.00	7,486.11	170.00	-150.00	-171.28	0.00	0.00	0.00
7,600.00	0.00	0.00	7,586.11	170.00	-150.00	-171.28	0.00	0.00	0.00
7,700.00	0.00	0.00	7,686.11	170.00	-150.00	-171.28	0.00	0.00	0.00
7,800.00	0.00	0.00	7,786.11	170.00	-150.00	-171.28	0.00	0.00	0.00
7,900.00	0.00	0.00	7,886.11	170.00	-150.00	-171.28	0.00	0.00	0.00
8,000.00	0.00	0.00	7,986.11	170.00	-150.00	-171.28	0.00	0.00	0.00
8,100.00	0.00	0.00	8,086.11	170.00	-150.00	-171.28	0.00	0.00	0.00
8,200.00	0.00	0.00	8,186.11	170.00	-150.00	-171.28	0.00	0.00	0.00
8,300.00	0.00	0.00	8,286.11	170.00	-150.00	-171.28	0.00	0.00	0.00
8,400.00	0.00	0.00	8,386.11	170.00	-150.00	-171.28	0.00	0.00	0.00
8,500.00	0.00	0.00	8,486.11	170.00	-150.00	-171.28	0.00	0.00	0.00
8,600.00	0.00	0.00	8,586.11	170.00	-150.00	-171.28	0.00	0.00	0.00

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Well:	No. 6H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Prelim Plan B	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)
8,700.00	0.00	0.00	8,686.11	170.00	-150.00	-171.28	0.00	0.00	0.00
8,800.00	0.00	0.00	8,786.11	170.00	-150.00	-171.28	0.00	0.00	0.00
8,900.00	0.00	0.00	8,886.11	170.00	-150.00	-171.28	0.00	0.00	0.00
9,000.00	0.00	0.00	8,986.11	170.00	-150.00	-171.28	0.00	0.00	0.00
9,100.00	0.00	0.00	9,086.11	170.00	-150.00	-171.28	0.00	0.00	0.00
9,200.00	0.00	0.00	9,186.11	170.00	-150.00	-171.28	0.00	0.00	0.00
9,300.00	0.00	0.00	9,286.11	170.00	-150.00	-171.28	0.00	0.00	0.00
9,400.00	0.00	0.00	9,386.11	170.00	-150.00	-171.28	0.00	0.00	0.00
9,500.00	0.00	0.00	9,486.11	170.00	-150.00	-171.28	0.00	0.00	0.00
9,600.00	0.00	0.00	9,586.11	170.00	-150.00	-171.28	0.00	0.00	0.00
9,700.00	0.00	0.00	9,686.11	170.00	-150.00	-171.28	0.00	0.00	0.00
9,800.00	0.00	0.00	9,786.11	170.00	-150.00	-171.28	0.00	0.00	0.00
9,900.00	0.00	0.00	9,886.11	170.00	-150.00	-171.28	0.00	0.00	0.00
10,000.00	0.00	0.00	9,986.11	170.00	-150.00	-171.28	0.00	0.00	0.00
10,100.00	0.00	0.00	10,086.11	170.00	-150.00	-171.28	0.00	0.00	0.00
10,200.00	0.00	0.00	10,186.11	170.00	-150.00	-171.28	0.00	0.00	0.00
10,300.00	0.00	0.00	10,286.11	170.00	-150.00	-171.28	0.00	0.00	0.00
10,400.00	0.00	0.00	10,386.11	170.00	-150.00	-171.28	0.00	0.00	0.00
10,500.00	0.00	0.00	10,486.11	170.00	-150.00	-171.28	0.00	0.00	0.00
10,600.00	0.00	0.00	10,586.11	170.00	-150.00	-171.28	0.00	0.00	0.00
10,700.00	0.00	0.00	10,686.11	170.00	-150.00	-171.28	0.00	0.00	0.00
10,800.00	0.00	0.00	10,786.11	170.00	-150.00	-171.28	0.00	0.00	0.00
10,900.00	0.00	0.00	10,886.11	170.00	-150.00	-171.28	0.00	0.00	0.00
11,000.00	0.00	0.00	10,986.11	170.00	-150.00	-171.28	0.00	0.00	0.00
11,100.00	0.00	0.00	11,086.11	170.00	-150.00	-171.28	0.00	0.00	0.00
11,200.00	0.00	0.00	11,186.11	170.00	-150.00	-171.28	0.00	0.00	0.00
11,300.00	0.00	0.00	11,286.11	170.00	-150.00	-171.28	0.00	0.00	0.00
11,400.00	0.00	0.00	11,386.11	170.00	-150.00	-171.28	0.00	0.00	0.00
11,500.00	0.00	0.00	11,486.11	170.00	-150.00	-171.28	0.00	0.00	0.00
11,600.00	0.00	0.00	11,586.11	170.00	-150.00	-171.28	0.00	0.00	0.00
11,700.00	0.00	0.00	11,686.11	170.00	-150.00	-171.28	0.00	0.00	0.00
11,800.00	0.00	0.00	11,786.11	170.00	-150.00	-171.28	0.00	0.00	0.00
11,900.00	0.00	0.00	11,886.11	170.00	-150.00	-171.28	0.00	0.00	0.00
12,006.89	0.00	0.00	11,993.00	170.00	-150.00	-171.28	0.00	0.00	0.00
[KnifeFight#6H]KOP									
12,050.00	4.31	179.51	12,036.07	168.38	-149.99	-169.66	10.00	10.00	0.00
12,100.00	9.31	179.51	12,085.70	162.45	-149.94	-163.73	10.00	10.00	0.00
12,150.00	14.31	179.51	12,134.62	152.22	-149.85	-153.50	10.00	10.00	0.00
12,200.00	19.31	179.51	12,182.47	137.77	-149.72	-139.04	10.00	10.00	0.00
12,250.00	24.31	179.51	12,228.88	119.20	-149.56	-120.47	10.00	10.00	0.00
12,300.00	29.31	179.51	12,273.49	96.65	-149.37	-97.93	10.00	10.00	0.00
12,350.00	34.31	179.51	12,315.96	70.31	-149.15	-71.58	10.00	10.00	0.00

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Project:	Lea County, NM	TVD Reference:	Well @ 3473.50usft (GL 3447' + KB: 26.5' (H&P480))
Site:	Knife Fight Fee 3-6-7-19	MD Reference:	Well @ 3473.50usft (GL 3447' + KB: 26.5' (H&P480))
Well:	No. 6H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Prelim Plan B	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)	
12,360.72	35.38	179.51	12,324.76	64.18	-149.09	-65.46	10.00	10.00	0.00	
Wolfcamp										
12,400.00	39.31	179.51	12,355.98	40.36	-148.89	-41.63	10.00	10.00	0.00	
12,450.00	44.31	179.51	12,393.24	7.04	-148.60	-8.31	10.00	10.00	0.00	
12,500.00	49.31	179.51	12,427.45	-29.41	-148.29	28.14	10.00	10.00	0.00	
12,550.00	54.31	179.51	12,458.35	-68.69	-147.95	67.42	10.00	10.00	0.00	
12,600.00	59.31	179.51	12,485.71	-110.52	-147.60	109.25	10.00	10.00	0.00	
12,650.00	64.31	179.51	12,509.33	-154.57	-147.22	153.31	10.00	10.00	0.00	
12,700.00	69.31	179.51	12,529.01	-200.52	-146.82	199.25	10.00	10.00	0.00	
12,750.00	74.31	179.51	12,544.61	-248.00	-146.42	246.74	10.00	10.00	0.00	
12,800.00	79.31	179.51	12,556.02	-296.67	-146.00	295.41	10.00	10.00	0.00	
12,850.00	84.31	179.51	12,563.14	-346.14	-145.58	344.88	10.00	10.00	0.00	
12,886.93	88.00	179.51	12,565.61	-382.98	-145.26	381.72	10.00	10.00	0.00	
12,900.00	88.00	179.51	12,566.07	-396.04	-145.15	394.78	0.00	0.00	0.00	
13,000.00	88.00	179.51	12,569.55	-495.97	-144.29	494.72	0.00	0.00	0.00	
13,100.00	88.00	179.51	12,573.03	-595.91	-143.43	594.66	0.00	0.00	0.00	
13,200.00	88.00	179.51	12,576.52	-695.85	-142.58	694.60	0.00	0.00	0.00	
13,300.00	88.00	179.51	12,580.00	-795.78	-141.72	794.54	0.00	0.00	0.00	
13,400.00	88.00	179.51	12,583.48	-895.72	-140.87	894.48	0.00	0.00	0.00	
13,500.00	88.00	179.51	12,586.97	-995.65	-140.01	994.42	0.00	0.00	0.00	
13,600.00	88.00	179.51	12,590.45	-1,095.59	-139.15	1,094.36	0.00	0.00	0.00	
13,700.00	88.00	179.51	12,593.94	-1,195.52	-138.30	1,194.30	0.00	0.00	0.00	
13,800.00	88.00	179.51	12,597.42	-1,295.46	-137.44	1,294.24	0.00	0.00	0.00	
13,900.00	88.00	179.51	12,600.90	-1,395.40	-136.58	1,394.18	0.00	0.00	0.00	
14,000.00	88.00	179.51	12,604.39	-1,495.33	-135.73	1,494.12	0.00	0.00	0.00	
14,100.00	88.00	179.51	12,607.87	-1,595.27	-134.87	1,594.06	0.00	0.00	0.00	
14,200.00	88.00	179.51	12,611.36	-1,695.20	-134.01	1,693.99	0.00	0.00	0.00	
14,300.00	88.00	179.51	12,614.84	-1,795.14	-133.16	1,793.93	0.00	0.00	0.00	
14,400.00	88.00	179.51	12,618.32	-1,895.07	-132.30	1,893.87	0.00	0.00	0.00	
14,500.00	88.00	179.51	12,621.81	-1,995.01	-131.44	1,993.81	0.00	0.00	0.00	
14,600.00	88.00	179.51	12,625.29	-2,094.94	-130.59	2,093.75	0.00	0.00	0.00	
14,700.00	88.00	179.51	12,628.77	-2,194.88	-129.73	2,193.69	0.00	0.00	0.00	
14,800.00	88.00	179.51	12,632.26	-2,294.82	-128.87	2,293.63	0.00	0.00	0.00	
14,900.00	88.00	179.51	12,635.74	-2,394.75	-128.02	2,393.57	0.00	0.00	0.00	
15,000.00	88.00	179.51	12,639.23	-2,494.69	-127.16	2,493.51	0.00	0.00	0.00	
15,100.00	88.00	179.51	12,642.71	-2,594.62	-126.30	2,593.45	0.00	0.00	0.00	
15,200.00	88.00	179.51	12,646.19	-2,694.56	-125.45	2,693.39	0.00	0.00	0.00	
15,300.00	88.00	179.51	12,649.68	-2,794.49	-124.59	2,793.33	0.00	0.00	0.00	
15,400.00	88.00	179.51	12,653.16	-2,894.43	-123.73	2,893.27	0.00	0.00	0.00	
15,500.00	88.00	179.51	12,656.64	-2,994.37	-122.88	2,993.21	0.00	0.00	0.00	
15,600.00	88.00	179.51	12,660.13	-3,094.30	-122.02	3,093.14	0.00	0.00	0.00	
15,700.00	88.00	179.51	12,663.61	-3,194.24	-121.16	3,193.08	0.00	0.00	0.00	

Company:	Marathon Oil	Local Co-ordinate Reference:	Well No. 6H
Project:	Lea County, NM	TVD Reference:	Well @ 3473.50usft (GL 3447' + KB: 26.5' (H&P480))
Site:	Knife Fight Fee 3-6-7-19	MD Reference:	Well @ 3473.50usft (GL 3447' + KB: 26.5' (H&P480))
Well:	No. 6H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Prelim Plan B	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)
15,800.00	88.00	179.51	12,667.10	-3,294.17	-120.31	3,293.02	0.00	0.00	0.00
15,900.00	88.00	179.51	12,670.58	-3,394.11	-119.45	3,392.96	0.00	0.00	0.00
16,000.00	88.00	179.51	12,674.06	-3,494.04	-118.59	3,492.90	0.00	0.00	0.00
16,100.00	88.00	179.51	12,677.55	-3,593.98	-117.74	3,592.84	0.00	0.00	0.00
16,200.00	88.00	179.51	12,681.03	-3,693.91	-116.88	3,692.78	0.00	0.00	0.00
16,300.00	88.00	179.51	12,684.52	-3,793.85	-116.02	3,792.72	0.00	0.00	0.00
16,400.00	88.00	179.51	12,688.00	-3,893.79	-115.17	3,892.66	0.00	0.00	0.00
16,500.00	88.00	179.51	12,691.48	-3,993.72	-114.31	3,992.60	0.00	0.00	0.00
16,600.00	88.00	179.51	12,694.97	-4,093.66	-113.45	4,092.54	0.00	0.00	0.00
16,700.00	88.00	179.51	12,698.45	-4,193.59	-112.60	4,192.48	0.00	0.00	0.00
16,800.00	88.00	179.51	12,701.93	-4,293.53	-111.74	4,292.42	0.00	0.00	0.00
16,900.00	88.00	179.51	12,705.42	-4,393.46	-110.88	4,392.36	0.00	0.00	0.00
17,000.00	88.00	179.51	12,708.90	-4,493.40	-110.03	4,492.29	0.00	0.00	0.00
17,100.00	88.00	179.51	12,712.39	-4,593.34	-109.17	4,592.23	0.00	0.00	0.00
17,200.00	88.00	179.51	12,715.87	-4,693.27	-108.31	4,692.17	0.00	0.00	0.00
17,300.00	88.00	179.51	12,719.35	-4,793.21	-107.46	4,792.11	0.00	0.00	0.00
17,367.37	88.00	179.51	12,721.70	-4,860.53	-106.88	4,859.44	0.00	0.00	0.00
[KnifeFight#6H]LTP/BHL									
17,400.00	88.00	179.51	12,722.84	-4,893.14	-106.60	4,892.05	0.00	0.00	0.00
17,412.37	88.00	179.51	12,723.27	-4,905.50	-106.49	4,904.41	0.00	0.00	0.00

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
[KnifeFight#6H]FTP	0.00	0.00	0.00	117.80	-149.80	435,900.27	777,578.27	32° 11' 42.8032 N	103° 26' 9.6495 W
- plan misses target center by 190.57usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
[KnifeFight#6H]KOP	0.00	0.00	11,993.00	170.00	-150.00	435,952.47	777,578.07	32° 11' 43.3198 N	103° 26' 9.6468 W
- plan hits target center									
- Point									
[KnifeFight#6H]LTP/BHL	0.00	0.00	12,721.70	-4,860.53	-106.88	430,921.94	777,621.19	32° 10' 53.5380 N	103° 26' 9.6334 W
- plan hits target center									
- Point									

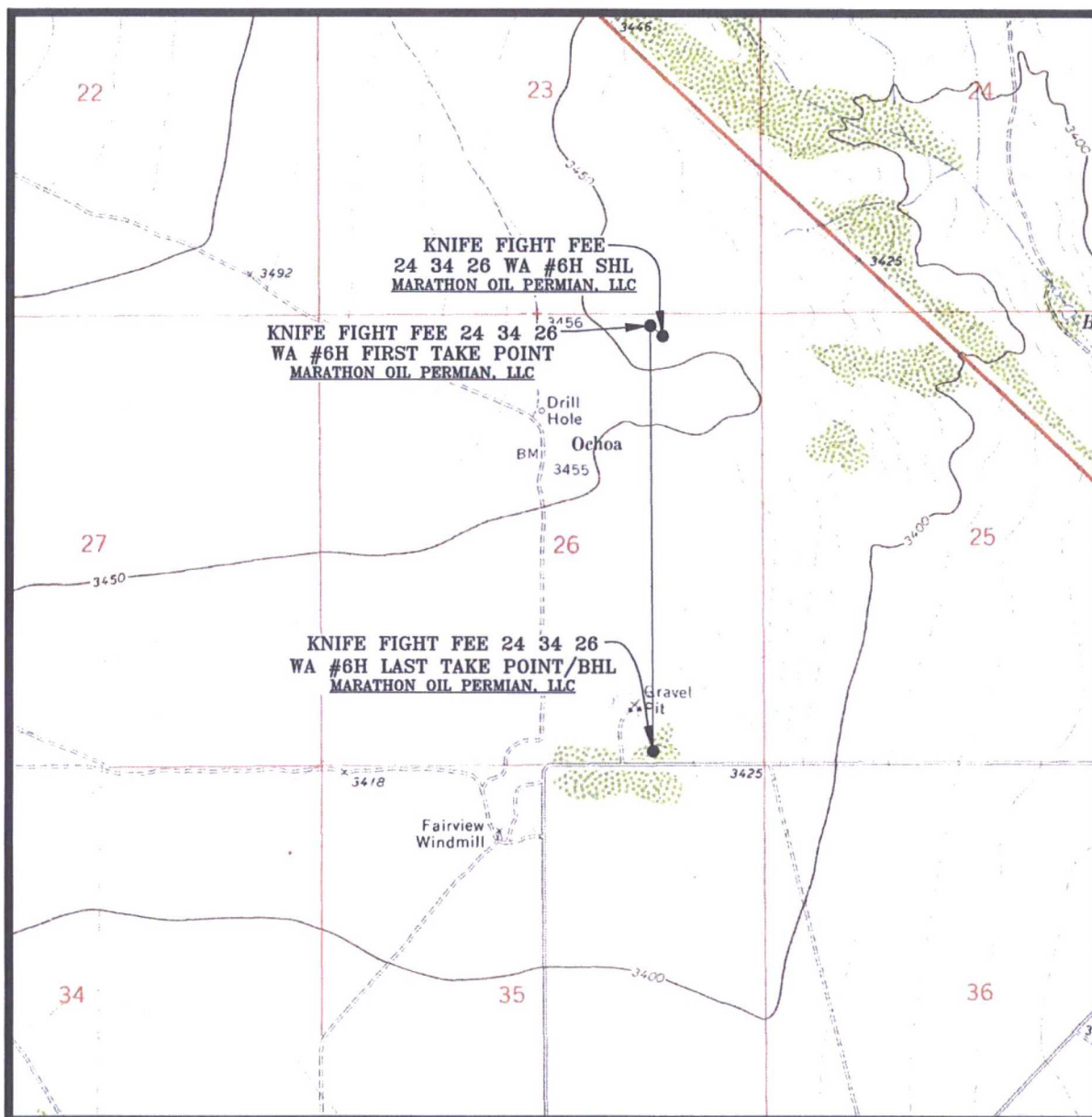
Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
12,360.72	12,324.76	Wolfcamp		2.00	180.00

Company:	Marathon Oil	Local Co-ordinate Reference:	Well No. 6H
Project:	Lea County, NM	TVD Reference:	Well @ 3473.50usft (GL 3447' + KB: 26.5' (H&P480))
Site:	Knife Fight Fee 3-6-7-19	MD Reference:	Well @ 3473.50usft (GL 3447' + KB: 26.5' (H&P480))
Well:	No. 6H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Prelim Plan B	Database:	WellPlanner1

Checked By: _____	Approved By: _____	Date: _____
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LOCATION VERIFICATION MAP



SEC. 26 TWP. 24-S RGE. 34-E
SURVEY: N.M.P.M.
COUNTY: LEA
DESCRIPTION: 271' FNL & 1175' FEL
ELEVATION: 3447'
OPERATOR: MARATHON OIL PERMIAN, LLC
LEASE: KNIFE FIGHT FEE 24 34 26
U.S.G.S. TOPOGRAPHIC MAP: WOODLEY FLAT, N.M.

SCALE: 1" = 2000'
CONTOUR INTERVAL = 20'

PREPARED BY:
R-SQUARED GLOBAL, LLC
1309 LOUISVILLE AVENUE, MONROE, LA 71201
318-323-6900 OFFICE
JOB No. R3800_003

VICINITY MAP



SCALE: 1" = 2 MILES

PREPARED BY:
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