



Pro Directional
Survey Report

30-015-44734 PRO DIRECTIONAL

Company: Marathon Oil
Project: Eddy County, NM
Site: Mariner Fee 23-28-19
Well: WXY #6H
Wellbore: OH
Design: Prelim Plan A

Local Co-ordinate Reference: Well WXY #6H
TVD Reference: Well @ 3092.50usft (GL: 3066' + KB: 26.5' (H&P423))
MD Reference: Well @ 3092.50usft (GL: 3066' + KB: 26.5' (H&P423))
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

NM OIL CONSERVATION
ARTESIA DISTRICT

Project: Eddy County, NM

FEB 20 2018

Map System: US State Plane 1927 (Exact solution)
Geo Datum: NAD 1927 (NADCON CONUS)
Map Zone: New Mexico East 3001

System Datum: Mean Sea Level

RECEIVED

Site: Mariner Fee 23-28-19

Site Position: Northing: 472,817.80 usft Latitude: 32.299718
From: Map Easting: 564,941.79 usft Longitude: -104.123154
Position Uncertainty: 0.00 usft Slot Radius: 13-3/16 " Grid Convergence: 0.11 °

Well: WXY #6H

Well Position: +N/-S 0.00 usft Northing: 472,817.80 usft Latitude: 32.299718
+E/-W 0.00 usft Easting: 564,941.79 usft Longitude: -104.123154
Position Uncertainty: 0.00 usft Wellhead Elevation: usft Ground Level: 3,066.00 usft

Wellbore: OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	2/12/2018	7.32	60.08	48,036.20

Design: Prelim Plan A

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	179.90

Survey Tool Program Date: 2/13/2018

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	14,476.57	Prelim Plan A (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
[Mariner#6H]FTP: 994' VS									
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

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Local Co-ordinate Reference:
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North Reference:
Survey Calculation Method:
Database:

Well WXY #6H
 Well @ 3092.50usft (GL: 3066' + KB: 26.5' (H&P423))
 Well @ 3092.50usft (GL: 3066' + KB: 26.5' (H&P423))
 Grid
 Minimum Curvature
 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)
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	1.00	140.80	1,899.99	-0.68	0.55	0.68	1.00	1.00	0.00
2,000.00	2.00	140.80	1,999.96	-2.70	2.21	2.71	1.00	1.00	0.00
2,100.00	3.00	140.80	2,099.86	-6.08	4.96	6.09	1.00	1.00	0.00
2,200.00	4.00	140.80	2,199.68	-10.82	8.82	10.83	1.00	1.00	0.00
2,300.00	5.00	140.80	2,299.37	-16.90	13.78	16.92	1.00	1.00	0.00
2,400.00	6.00	140.80	2,398.90	-24.32	19.84	24.36	1.00	1.00	0.00
2,500.00	7.00	140.80	2,498.26	-33.09	26.99	33.14	1.00	1.00	0.00
2,600.00	8.00	140.80	2,597.40	-43.21	35.24	43.27	1.00	1.00	0.00
2,700.00	9.00	140.80	2,696.30	-54.66	44.59	54.74	1.00	1.00	0.00
2,800.00	10.00	140.80	2,794.93	-67.45	55.02	67.55	1.00	1.00	0.00
2,900.00	10.00	140.80	2,893.41	-80.91	65.99	81.02	0.00	0.00	0.00
3,000.00	10.00	140.80	2,991.89	-94.36	76.97	94.50	0.00	0.00	0.00
3,100.00	10.00	140.80	3,090.37	-107.82	87.95	107.97	0.00	0.00	0.00
3,200.00	10.00	140.80	3,188.85	-121.28	98.92	121.45	0.00	0.00	0.00
3,300.00	10.00	140.80	3,287.33	-134.73	109.90	134.92	0.00	0.00	0.00
3,400.00	10.00	140.80	3,385.82	-148.19	120.87	148.40	0.00	0.00	0.00
3,500.00	10.00	140.80	3,484.30	-161.64	131.85	161.87	0.00	0.00	0.00
3,600.00	10.00	140.80	3,582.78	-175.10	142.83	175.35	0.00	0.00	0.00
3,700.00	10.00	140.80	3,681.26	-188.56	153.80	188.83	0.00	0.00	0.00
3,800.00	10.00	140.80	3,779.74	-202.01	164.78	202.30	0.00	0.00	0.00
3,900.00	10.00	140.80	3,878.22	-215.47	175.75	215.78	0.00	0.00	0.00
4,000.00	10.00	140.80	3,976.70	-228.93	186.73	229.25	0.00	0.00	0.00
4,100.00	10.00	140.80	4,075.18	-242.38	197.71	242.73	0.00	0.00	0.00
4,200.00	10.00	140.80	4,173.66	-255.84	208.68	256.20	0.00	0.00	0.00
4,300.00	10.00	140.80	4,272.14	-269.29	219.66	269.68	0.00	0.00	0.00
4,400.00	10.00	140.80	4,370.62	-282.75	230.63	283.15	0.00	0.00	0.00
4,500.00	10.00	140.80	4,469.10	-296.21	241.61	296.63	0.00	0.00	0.00
4,600.00	10.00	140.80	4,567.58	-309.66	252.58	310.10	0.00	0.00	0.00
4,700.00	10.00	140.80	4,666.07	-323.12	263.56	323.58	0.00	0.00	0.00
4,800.00	10.00	140.80	4,764.55	-336.57	274.54	337.05	0.00	0.00	0.00
4,900.00	10.00	140.80	4,863.03	-350.03	285.51	350.53	0.00	0.00	0.00

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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)
5,000.00	10.00	140.80	4,961.51	-363.49	296.49	364.00	0.00	0.00	0.00
5,100.00	10.00	140.80	5,059.99	-376.94	307.46	377.48	0.00	0.00	0.00
5,200.00	10.00	140.80	5,158.47	-390.40	318.44	390.95	0.00	0.00	0.00
5,300.00	10.00	140.80	5,256.95	-403.86	329.42	404.43	0.00	0.00	0.00
5,400.00	10.00	140.80	5,355.43	-417.31	340.39	417.90	0.00	0.00	0.00
5,472.24	10.00	140.80	5,426.57	-427.03	348.32	427.64	0.00	0.00	0.00
5,500.00	9.58	140.80	5,453.93	-430.69	351.30	431.30	1.50	-1.50	0.00
5,600.00	8.08	140.80	5,552.74	-442.59	361.01	443.22	1.50	-1.50	0.00
5,700.00	6.58	140.80	5,651.92	-452.48	369.08	453.12	1.50	-1.50	0.00
5,800.00	5.08	140.80	5,751.40	-460.36	375.50	461.01	1.50	-1.50	0.00
5,900.00	3.58	140.80	5,851.11	-466.21	380.28	466.88	1.50	-1.50	0.00
6,000.00	2.08	140.80	5,950.98	-470.04	383.40	470.71	1.50	-1.50	0.00
6,100.00	0.58	140.80	6,050.95	-471.85	384.87	472.52	1.50	-1.50	0.00
6,138.91	0.00	0.00	6,089.86	-472.00	385.00	472.67	1.50	-1.50	0.00
6,200.00	0.00	0.00	6,150.95	-472.00	385.00	472.67	0.00	0.00	0.00
6,300.00	0.00	0.00	6,250.95	-472.00	385.00	472.67	0.00	0.00	0.00
6,400.00	0.00	0.00	6,350.95	-472.00	385.00	472.67	0.00	0.00	0.00
6,500.00	0.00	0.00	6,450.95	-472.00	385.00	472.67	0.00	0.00	0.00
6,600.00	0.00	0.00	6,550.95	-472.00	385.00	472.67	0.00	0.00	0.00
6,700.00	0.00	0.00	6,650.95	-472.00	385.00	472.67	0.00	0.00	0.00
6,800.00	0.00	0.00	6,750.95	-472.00	385.00	472.67	0.00	0.00	0.00
6,900.00	0.00	0.00	6,850.95	-472.00	385.00	472.67	0.00	0.00	0.00
7,000.00	0.00	0.00	6,950.95	-472.00	385.00	472.67	0.00	0.00	0.00
7,100.00	0.00	0.00	7,050.95	-472.00	385.00	472.67	0.00	0.00	0.00
7,200.00	0.00	0.00	7,150.95	-472.00	385.00	472.67	0.00	0.00	0.00
7,300.00	0.00	0.00	7,250.95	-472.00	385.00	472.67	0.00	0.00	0.00
7,400.00	0.00	0.00	7,350.95	-472.00	385.00	472.67	0.00	0.00	0.00
7,500.00	0.00	0.00	7,450.95	-472.00	385.00	472.67	0.00	0.00	0.00
7,600.00	0.00	0.00	7,550.95	-472.00	385.00	472.67	0.00	0.00	0.00
7,700.00	0.00	0.00	7,650.95	-472.00	385.00	472.67	0.00	0.00	0.00
7,800.00	0.00	0.00	7,750.95	-472.00	385.00	472.67	0.00	0.00	0.00
7,900.00	0.00	0.00	7,850.95	-472.00	385.00	472.67	0.00	0.00	0.00
8,000.00	0.00	0.00	7,950.95	-472.00	385.00	472.67	0.00	0.00	0.00
8,100.00	0.00	0.00	8,050.95	-472.00	385.00	472.67	0.00	0.00	0.00
8,200.00	0.00	0.00	8,150.95	-472.00	385.00	472.67	0.00	0.00	0.00
8,300.00	0.00	0.00	8,250.95	-472.00	385.00	472.67	0.00	0.00	0.00
8,400.00	0.00	0.00	8,350.95	-472.00	385.00	472.67	0.00	0.00	0.00
8,500.00	0.00	0.00	8,450.95	-472.00	385.00	472.67	0.00	0.00	0.00
8,600.00	0.00	0.00	8,550.95	-472.00	385.00	472.67	0.00	0.00	0.00
8,700.00	0.00	0.00	8,650.95	-472.00	385.00	472.67	0.00	0.00	0.00
8,800.00	0.00	0.00	8,750.95	-472.00	385.00	472.67	0.00	0.00	0.00
8,900.00	0.00	0.00	8,850.95	-472.00	385.00	472.67	0.00	0.00	0.00

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Wellbore: OH
Design: Prelim Plan A

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TVD Reference: Well @ 3092.50usft (GL: 3066' + KB: 26.5' (H&P423))
MD Reference: Well @ 3092.50usft (GL: 3066' + KB: 26.5' (H&P423))
North Reference: Grid
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)
8,934.05	0.00	0.00	8,885.00	-472.00	385.00	472.67	0.00	0.00	0.00
[Mariner#6H]KOP									
8,950.00	1.75	179.90	8,900.95	-472.24	385.00	472.92	11.00	11.00	0.00
9,000.00	7.25	179.90	8,950.78	-476.17	385.01	476.84	11.00	11.00	0.00
9,050.00	12.75	179.90	9,000.00	-484.85	385.02	485.52	11.00	11.00	0.00
9,100.00	18.25	179.90	9,048.16	-498.21	385.05	498.89	11.00	11.00	0.00
9,150.00	23.75	179.90	9,094.82	-516.13	385.08	516.80	11.00	11.00	0.00
9,200.00	29.25	179.90	9,139.55	-538.43	385.12	539.11	11.00	11.00	0.00
9,250.00	34.75	179.90	9,181.93	-564.92	385.17	565.60	11.00	11.00	0.00
9,300.00	40.25	179.90	9,221.58	-595.35	385.23	596.03	11.00	11.00	0.00
9,350.00	45.75	179.90	9,258.13	-629.44	385.29	630.12	11.00	11.00	0.00
9,400.00	51.25	179.90	9,291.25	-666.88	385.36	667.55	11.00	11.00	0.00
9,450.00	56.75	179.90	9,320.62	-707.32	385.43	707.99	11.00	11.00	0.00
9,500.00	62.25	179.90	9,345.99	-750.38	385.51	751.06	11.00	11.00	0.00
9,550.00	67.75	179.90	9,367.10	-795.68	385.59	796.36	11.00	11.00	0.00
9,600.00	73.25	179.90	9,383.78	-842.80	385.68	843.47	11.00	11.00	0.00
9,650.00	78.75	179.90	9,395.87	-891.30	385.77	891.97	11.00	11.00	0.00
9,700.00	84.25	179.90	9,403.25	-940.73	385.86	941.40	11.00	11.00	0.00
9,753.09	90.10	179.90	9,405.87	-993.73	385.95	994.41	11.00	11.00	0.00
9,800.00	90.10	179.90	9,405.79	-1,040.64	386.04	1,041.31	0.00	0.00	0.00
9,900.00	90.10	179.90	9,405.63	-1,140.64	386.22	1,141.31	0.00	0.00	0.00
10,000.00	90.10	179.90	9,405.46	-1,240.64	386.41	1,241.31	0.00	0.00	0.00
10,100.00	90.10	179.90	9,405.29	-1,340.64	386.59	1,341.31	0.00	0.00	0.00
10,200.00	90.10	179.90	9,405.13	-1,440.64	386.77	1,441.31	0.00	0.00	0.00
10,300.00	90.10	179.90	9,404.96	-1,540.64	386.95	1,541.31	0.00	0.00	0.00
10,400.00	90.10	179.90	9,404.80	-1,640.64	387.14	1,641.31	0.00	0.00	0.00
10,500.00	90.10	179.90	9,404.63	-1,740.64	387.32	1,741.31	0.00	0.00	0.00
10,600.00	90.10	179.90	9,404.46	-1,840.64	387.50	1,841.31	0.00	0.00	0.00
10,700.00	90.10	179.90	9,404.30	-1,940.64	387.69	1,941.31	0.00	0.00	0.00
10,800.00	90.10	179.90	9,404.13	-2,040.64	387.87	2,041.31	0.00	0.00	0.00
10,900.00	90.10	179.90	9,403.97	-2,140.64	388.05	2,141.31	0.00	0.00	0.00
11,000.00	90.10	179.90	9,403.80	-2,240.64	388.23	2,241.31	0.00	0.00	0.00
11,100.00	90.10	179.90	9,403.63	-2,340.64	388.42	2,341.31	0.00	0.00	0.00
11,200.00	90.10	179.90	9,403.47	-2,440.64	388.60	2,441.31	0.00	0.00	0.00
11,300.00	90.10	179.90	9,403.30	-2,540.64	388.78	2,541.31	0.00	0.00	0.00
11,400.00	90.10	179.90	9,403.14	-2,640.64	388.97	2,641.31	0.00	0.00	0.00
11,500.00	90.10	179.90	9,402.97	-2,740.64	389.15	2,741.31	0.00	0.00	0.00
11,600.00	90.10	179.90	9,402.80	-2,840.64	389.33	2,841.31	0.00	0.00	0.00
11,700.00	90.10	179.90	9,402.64	-2,940.64	389.51	2,941.31	0.00	0.00	0.00
11,800.00	90.10	179.90	9,402.47	-3,040.64	389.70	3,041.31	0.00	0.00	0.00
11,900.00	90.10	179.90	9,402.30	-3,140.64	389.88	3,141.31	0.00	0.00	0.00
12,000.00	90.10	179.90	9,402.14	-3,240.64	390.06	3,241.31	0.00	0.00	0.00

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Site:	Mariner Fee 23-28-19	MD Reference:	Well @ 3092.50usft (GL: 3066' + KB: 26.5' (H&P423))
Well:	WXY #6H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Prelim Plan A	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)	
12,100.00	90.10	179.90	9,401.97	-3,340.63	390.25	3,341.31	0.00	0.00	0.00	
12,200.00	90.10	179.90	9,401.81	-3,440.63	390.43	3,441.31	0.00	0.00	0.00	
12,300.00	90.10	179.90	9,401.64	-3,540.63	390.61	3,541.31	0.00	0.00	0.00	
12,400.00	90.10	179.90	9,401.47	-3,640.63	390.79	3,641.31	0.00	0.00	0.00	
12,500.00	90.10	179.90	9,401.31	-3,740.63	390.98	3,741.31	0.00	0.00	0.00	
12,600.00	90.10	179.90	9,401.14	-3,840.63	391.16	3,841.31	0.00	0.00	0.00	
12,700.00	90.10	179.90	9,400.98	-3,940.63	391.34	3,941.31	0.00	0.00	0.00	
12,800.00	90.10	179.90	9,400.81	-4,040.63	391.53	4,041.31	0.00	0.00	0.00	
12,900.00	90.10	179.90	9,400.64	-4,140.63	391.71	4,141.31	0.00	0.00	0.00	
13,000.00	90.10	179.90	9,400.48	-4,240.63	391.89	4,241.31	0.00	0.00	0.00	
13,100.00	90.10	179.90	9,400.31	-4,340.63	392.07	4,341.31	0.00	0.00	0.00	
13,200.00	90.10	179.90	9,400.15	-4,440.63	392.26	4,441.31	0.00	0.00	0.00	
13,300.00	90.10	179.90	9,399.98	-4,540.63	392.44	4,541.31	0.00	0.00	0.00	
13,400.00	90.10	179.90	9,399.81	-4,640.63	392.62	4,641.31	0.00	0.00	0.00	
13,500.00	90.10	179.90	9,399.65	-4,740.63	392.81	4,741.31	0.00	0.00	0.00	
13,600.00	90.10	179.90	9,399.48	-4,840.63	392.99	4,841.31	0.00	0.00	0.00	
13,700.00	90.10	179.90	9,399.32	-4,940.63	393.17	4,941.31	0.00	0.00	0.00	
13,800.00	90.10	179.90	9,399.15	-5,040.63	393.36	5,041.31	0.00	0.00	0.00	
13,900.00	90.10	179.90	9,398.98	-5,140.63	393.54	5,141.31	0.00	0.00	0.00	
14,000.00	90.10	179.90	9,398.82	-5,240.63	393.72	5,241.31	0.00	0.00	0.00	
14,100.00	90.10	179.90	9,398.65	-5,340.63	393.90	5,341.31	0.00	0.00	0.00	
14,200.00	90.10	179.90	9,398.48	-5,440.63	394.09	5,441.31	0.00	0.00	0.00	
14,300.00	90.10	179.90	9,398.32	-5,540.63	394.27	5,541.31	0.00	0.00	0.00	
14,400.00	90.10	179.90	9,398.15	-5,640.63	394.45	5,641.31	0.00	0.00	0.00	
14,431.57	90.10	179.90	9,398.10	-5,672.20	394.51	5,672.88	0.00	0.00	0.00	
[Mariner#6H]LTP/BHL: 5673' VS										
14,476.57	90.10	179.90	9,398.03	-5,717.20	394.59	5,717.88	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	
[Mariner#6H]FTP: 994' V	0.00	0.00	0.00	-993.19	386.39	471,824.61	565,328.18	32.296985	-104.121910	
- hit/miss target										
- Shape										
- plan misses target center by 1065.70usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)										
- Point										
[Mariner#6H]KOP	0.00	0.00	8,885.00	-472.00	385.00	472,345.80	565,326.79	32.298418	-104.121911	
- plan hits target center										
- Point										
[Mariner#6H]LTP/BHL: 5	0.00	0.00	9,398.10	-5,672.20	394.51	467,145.60	565,336.30	32.284123	-104.121913	
- plan hits target center										
- Point										



Pro Directional
Survey Report



Company:	Marathon Oil	Local Co-ordinate Reference:	Well WXY #6H
Project:	Eddy County, NM	TVD Reference:	Well @ 3092.50usft (GL: 3066' + KB: 26.5' (H&P423))
Site:	Mariner Fee 23-28-19	MD Reference:	Well @ 3092.50usft (GL: 3066' + KB: 26.5' (H&P423))
Well:	WXY #6H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Prelim Plan A	Database:	WellPlanner1

Checked By: _____	Approved By: _____	Date: _____
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Marathon Oil
Eddy County, NM
Mariner Fee 23-28-19
WXY #6H
Prelim Plan A
GL: 3066 + KB: 26.5' (H&P423)

US State Plane 1927 (Exact Solution)
NAD 1983 (NAD 83) CONUS
Clarke 1866
New Mexico East 3001
Mean Sea Level

RKB Elevation: Well @ 3092.50 uft (GL: 3066 + KB: 26.5' (H&P423))

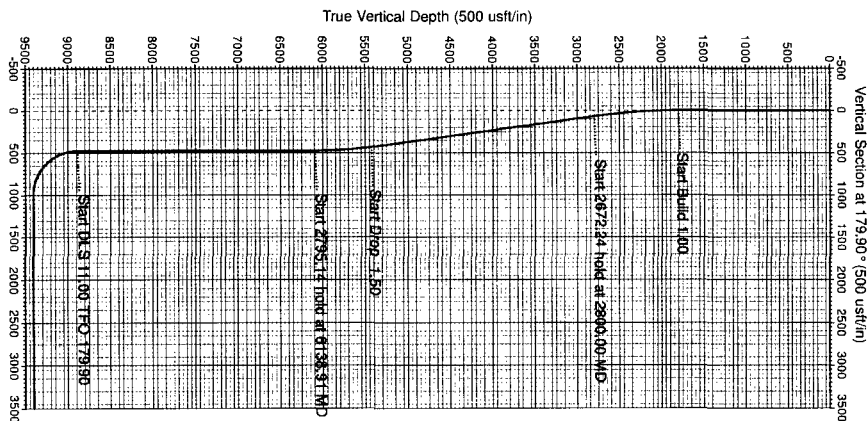
+N-S 0.00 +E-W 0.00 Northing 472817.80 Easting 564941.79 Latitude 32.299718 Longitude -104.123154

SECTION DETAILS

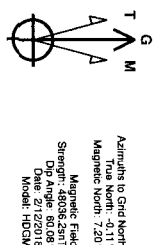
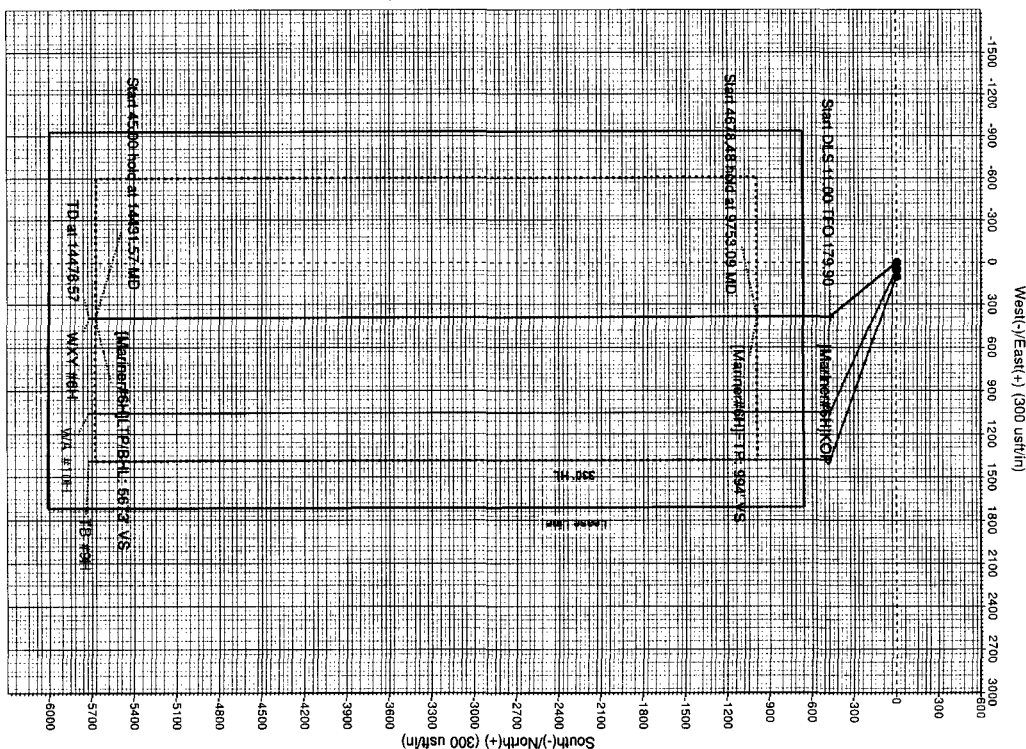
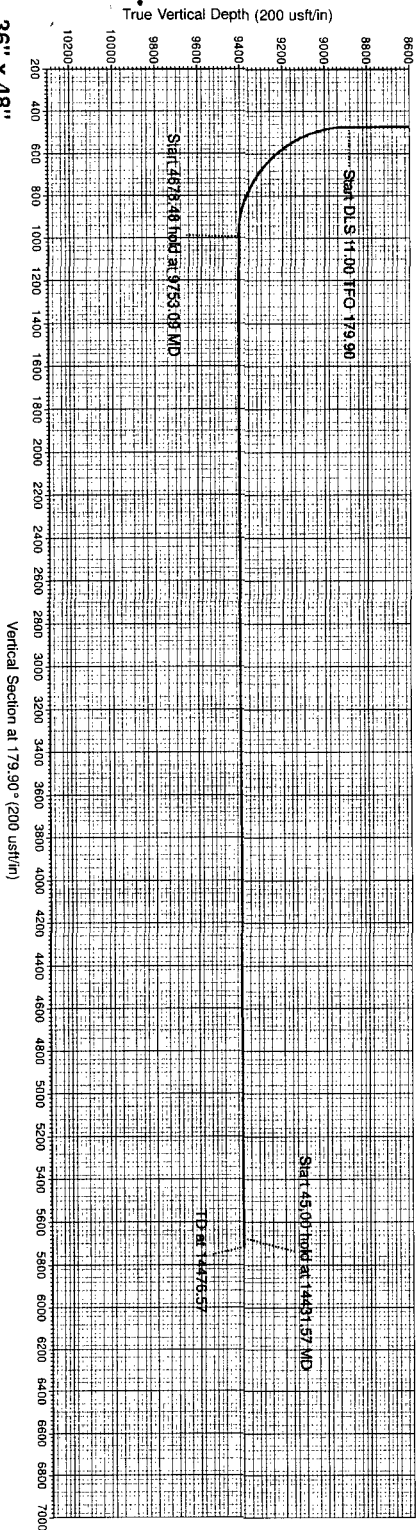
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dieg	Vsect
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	1800.00	0.00	0.00	1800.00	0.00	0.00	0.00	0.00
3	2800.00	0.00	0.00	2794.93	-67.45	55.02	1.00	67.55
4	5472.24	10.00	140.80	5426.57	-427.03	348.32	0.00	427.64
5	6138.91	0.00	0.00	6088.86	-472.00	385.00	1.50	472.67
6	8934.05	0.00	0.00	8885.00	-492.73	365.35	0.00	492.67
7	9753.09	90.10	179.90	9645.57	-581.72	394.59	0.00	581.72
8	14431.57	90.10	179.90	13938.03	-5717.20	394.59	0.00	5717.88
9	14478.57	90.10	179.90	13938.03	-5717.20	394.59	0.00	5717.88

WELLBORE TARGET DETAILS MAP CO-ORDINATES

Name	TVD	+N-S	+E-W	Northing	Easting
Mariner#HJFP: 994 VS	0.00	-993.19	386.39	471824.61	565328.18
Mariner#HJHCP	8885.00	-472.00	385.00	472345.80	565326.79
Mariner#HJLTP/BHL: 5673 VS	9398.10	-5672.20	394.51	467145.80	565336.30



Target Line: 9408' TVD @ 0° VS: 90.1° INC



Azimuth Corrections

Total Magnetic Corr. (M to G): 7.20°
Declination (M to T): 7.32° East