



30-015-45347

OCT 16 2018



Company: Marathon Oil
Project: Eddy County, NM

Local Co-ordinate Reference:
TVD Reference:

Site: Rick Deckard State 25-28-4 (2-3-6-8-9)

MD Reference:

Well: WXY #6H

North Reference:

Wellbore: OH

Survey Calculation Method:

Design: Prelim Plan A

Database:

Well WXY #6H
Well @ 3024.00usft (GL: 2999' + KB: 25'
(PD594))
Well @ 3024.00usft (GL: 2999' + KB: 25'
(PD594))
Grid
Minimum Curvature
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	Rick Deckard State 25-28-4 (2-3-6-8-9)		
Site Position:		Northing:	423,513.57 usft
From:	Map	Easting:	573,687.59 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.164132
		Longitude:	-104.095203
		Grid Convergence:	0.13 °

Well	WXY #6H		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	32.164132
		Longitude:	-104.095203
		Ground Level:	2,999.00 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
			(°)
	HDGM	6/7/2018	7.22
			Dip Angle
			(°)
			59.92
			Field Strength
			(nT)
			47,974.60

Design	Prelim Plan A		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction
			(°)
			180.16

Survey Tool Program	Date	10/12/2018		
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
0.00	1,850.00	Prelim Plan A (OH)	MWD+IFR1	OWSG MWD + IFR1
1,850.00	5,400.00	Prelim Plan A (OH)	MWD+IFR1	OWSG MWD + IFR1
5,400.00	10,000.00	Prelim Plan A (OH)	MWD+IFR1	OWSG MWD + IFR1
10,000.00	14,262.34	Prelim Plan A (OH)	MWD+IFR1	OWSG MWD + IFR1

Planned Survey									
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Vertical	Dogleg	Build	Turn
Depth	(°)	(°)	Depth	(usft)	(usft)	Section	Rate	Rate	Rate
(usft)			(usft)			(usft)	(°/100usft)	(°/100usft)	(°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
[RickDeckard#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

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MD Reference: Well @ 3024.00usft (GL: 2999' + KB: 25' (PD594))

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Database: WellPlanner1

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Bulld Rate (°/100usft)	Turn Rate (°/100usft)
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	300.93	1,599.98	0.90	-1.50	-0.89	2.00	2.00	0.00
1,700.00	4.00	300.93	1,699.84	3.59	-5.99	-3.57	2.00	2.00	0.00
1,800.00	6.00	300.93	1,799.45	8.07	-13.46	-8.03	2.00	2.00	0.00
1,900.00	8.00	300.93	1,898.70	14.33	-23.92	-14.26	2.00	2.00	0.00
2,000.00	10.00	300.93	1,997.47	22.37	-37.33	-22.26	2.00	2.00	0.00
2,100.00	12.00	300.93	2,095.62	32.18	-53.70	-32.03	2.00	2.00	0.00
2,200.00	14.00	300.93	2,193.06	43.74	-73.00	-43.53	2.00	2.00	0.00
2,300.00	14.00	300.93	2,290.08	56.17	-93.75	-55.91	0.00	0.00	0.00
2,400.00	14.00	300.93	2,387.11	68.61	-114.50	-68.29	0.00	0.00	0.00
2,500.00	14.00	300.93	2,484.14	81.04	-135.25	-80.66	0.00	0.00	0.00
2,600.00	14.00	300.93	2,581.17	93.47	-156.01	-93.04	0.00	0.00	0.00
2,700.00	14.00	300.93	2,678.20	105.91	-176.76	-105.41	0.00	0.00	0.00
2,800.00	14.00	300.93	2,775.23	118.34	-197.51	-117.79	0.00	0.00	0.00
2,900.00	14.00	300.93	2,872.26	130.78	-218.26	-130.17	0.00	0.00	0.00
3,000.00	14.00	300.93	2,969.29	143.21	-239.01	-142.54	0.00	0.00	0.00
3,100.00	14.00	300.93	3,066.32	155.64	-259.77	-154.92	0.00	0.00	0.00
3,200.00	14.00	300.93	3,163.35	168.08	-280.52	-167.29	0.00	0.00	0.00
3,300.00	14.00	300.93	3,260.38	180.51	-301.27	-179.67	0.00	0.00	0.00
3,400.00	14.00	300.93	3,357.41	192.95	-322.02	-192.05	0.00	0.00	0.00
3,500.00	14.00	300.93	3,454.44	205.38	-342.78	-204.42	0.00	0.00	0.00
3,600.00	14.00	300.93	3,551.47	217.81	-363.53	-216.80	0.00	0.00	0.00
3,700.00	14.00	300.93	3,648.50	230.25	-384.28	-229.17	0.00	0.00	0.00
3,800.00	14.00	300.93	3,745.53	242.68	-405.03	-241.55	0.00	0.00	0.00
3,900.00	14.00	300.93	3,842.56	255.12	-425.78	-253.93	0.00	0.00	0.00
4,000.00	14.00	300.93	3,939.59	267.55	-446.54	-266.30	0.00	0.00	0.00
4,100.00	14.00	300.93	4,036.62	279.98	-467.29	-278.68	0.00	0.00	0.00
4,200.00	14.00	300.93	4,133.65	292.42	-488.04	-291.05	0.00	0.00	0.00
4,300.00	14.00	300.93	4,230.68	304.85	-508.79	-303.43	0.00	0.00	0.00
4,400.00	14.00	300.93	4,327.71	317.29	-529.55	-315.81	0.00	0.00	0.00
4,500.00	14.00	300.93	4,424.74	329.72	-550.30	-328.18	0.00	0.00	0.00
4,600.00	14.00	300.93	4,521.77	342.15	-571.05	-340.56	0.00	0.00	0.00

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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)
4,700.00	14.00	300.93	4,618.79	354.59	-591.80	-352.93	0.00	0.00	0.00
4,800.00	14.00	300.93	4,715.82	367.02	-612.56	-365.31	0.00	0.00	0.00
4,900.00	14.00	300.93	4,812.85	379.46	-633.31	-377.69	0.00	0.00	0.00
5,000.00	14.00	300.93	4,909.88	391.89	-654.06	-390.06	0.00	0.00	0.00
5,100.00	14.00	300.93	5,006.91	404.32	-674.81	-402.44	0.00	0.00	0.00
5,200.00	14.00	300.93	5,103.94	416.76	-695.56	-414.81	0.00	0.00	0.00
5,300.00	14.00	300.93	5,200.97	429.19	-716.32	-427.19	0.00	0.00	0.00
5,400.00	14.00	300.93	5,298.00	441.63	-737.07	-439.57	0.00	0.00	0.00
5,500.00	14.00	300.93	5,395.03	454.06	-757.82	-451.94	0.00	0.00	0.00
5,600.00	14.00	300.93	5,492.06	466.50	-778.57	-464.32	0.00	0.00	0.00
5,700.00	14.00	300.93	5,589.09	478.93	-799.33	-476.70	0.00	0.00	0.00
5,800.00	14.00	300.93	5,686.12	491.36	-820.08	-489.07	0.00	0.00	0.00
5,900.00	14.00	300.93	5,783.15	503.80	-840.83	-501.45	0.00	0.00	0.00
6,000.00	14.00	300.93	5,880.18	516.23	-861.58	-513.82	0.00	0.00	0.00
6,100.00	14.00	300.93	5,977.21	528.67	-882.33	-526.20	0.00	0.00	0.00
6,200.00	14.00	300.93	6,074.24	541.10	-903.09	-538.58	0.00	0.00	0.00
6,300.00	14.00	300.93	6,171.27	553.53	-923.84	-550.95	0.00	0.00	0.00
6,400.00	14.00	300.93	6,268.30	565.97	-944.59	-563.33	0.00	0.00	0.00
6,500.00	14.00	300.93	6,365.33	578.40	-965.34	-575.70	0.00	0.00	0.00
6,600.00	14.00	300.93	6,462.36	590.84	-986.10	-588.08	0.00	0.00	0.00
6,700.00	14.00	300.93	6,559.39	603.27	-1,006.85	-600.46	0.00	0.00	0.00
6,800.00	14.00	300.93	6,656.42	615.70	-1,027.60	-612.83	0.00	0.00	0.00
6,900.00	14.00	300.93	6,753.45	628.14	-1,048.35	-625.21	0.00	0.00	0.00
7,000.00	14.00	300.93	6,850.47	640.57	-1,069.10	-637.58	0.00	0.00	0.00
7,100.00	14.00	300.93	6,947.50	653.01	-1,089.86	-649.96	0.00	0.00	0.00
7,200.00	14.00	300.93	7,044.53	665.44	-1,110.61	-662.34	0.00	0.00	0.00
7,279.00	14.00	300.93	7,121.19	675.26	-1,127.00	-672.11	0.00	0.00	0.00
7,300.00	13.58	300.93	7,141.58	677.84	-1,131.30	-674.67	2.00	-2.00	0.00
7,400.00	11.58	300.93	7,239.18	689.03	-1,149.98	-685.82	2.00	-2.00	0.00
7,500.00	9.58	300.93	7,337.47	698.47	-1,165.73	-695.21	2.00	-2.00	0.00
7,600.00	7.58	300.93	7,436.35	706.13	-1,178.53	-702.84	2.00	-2.00	0.00
7,700.00	5.58	300.93	7,535.68	712.02	-1,188.36	-708.70	2.00	-2.00	0.00
7,800.00	3.58	300.93	7,635.36	716.13	-1,195.20	-712.79	2.00	-2.00	0.00
7,900.00	1.58	300.93	7,735.25	718.44	-1,199.07	-715.09	2.00	-2.00	0.00
7,979.00	0.00	0.00	7,814.24	719.00	-1,200.00	-715.65	2.00	-2.00	0.00
8,000.00	0.00	0.00	7,835.24	719.00	-1,200.00	-715.65	0.00	0.00	0.00
8,100.00	0.00	0.00	7,935.24	719.00	-1,200.00	-715.65	0.00	0.00	0.00
8,200.00	0.00	0.00	8,035.24	719.00	-1,200.00	-715.65	0.00	0.00	0.00
8,300.00	0.00	0.00	8,135.24	719.00	-1,200.00	-715.65	0.00	0.00	0.00
8,400.00	0.00	0.00	8,235.24	719.00	-1,200.00	-715.65	0.00	0.00	0.00
8,500.00	0.00	0.00	8,335.24	719.00	-1,200.00	-715.65	0.00	0.00	0.00
8,600.00	0.00	0.00	8,435.24	719.00	-1,200.00	-715.65	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)
8,700.00	0.00	0.00	8,535.24	719.00	-1,200.00	-715.65	0.00	0.00	0.00
8,800.00	0.00	0.00	8,635.24	719.00	-1,200.00	-715.65	0.00	0.00	0.00
8,900.00	0.00	0.00	8,735.24	719.00	-1,200.00	-715.65	0.00	0.00	0.00
8,991.76	0.00	0.00	8,827.00	719.00	-1,200.00	-715.65	0.00	0.00	0.00
8,991.90	0.00	189.60	8,827.14	719.00	-1,200.00	-715.65	0.00	0.00	0.00
[RickDeckard#6H]KOP									
9,000.00	0.82	189.60	8,835.24	718.94	-1,200.01	-715.59	10.18	10.18	0.00
9,050.00	5.82	189.60	8,885.14	716.08	-1,200.49	-712.73	10.00	10.00	0.00
9,100.00	10.82	189.60	8,934.60	708.95	-1,201.70	-705.59	10.00	10.00	0.00
9,150.00	15.82	189.60	8,983.24	697.59	-1,203.62	-694.23	10.00	10.00	0.00
9,200.00	20.82	189.60	9,030.69	682.10	-1,206.24	-678.72	10.00	10.00	0.00
9,250.00	25.82	189.60	9,076.59	662.58	-1,209.54	-659.20	10.00	10.00	0.00
9,300.00	30.82	189.60	9,120.59	639.20	-1,213.50	-635.81	10.00	10.00	0.00
9,350.00	35.82	189.60	9,162.35	612.12	-1,218.08	-608.72	10.00	10.00	0.00
9,400.00	40.82	189.60	9,201.57	581.56	-1,223.25	-578.14	10.00	10.00	0.00
9,450.00	45.82	189.60	9,237.93	547.75	-1,228.97	-544.31	10.00	10.00	0.00
9,500.00	50.82	189.60	9,271.16	510.94	-1,235.19	-507.48	10.00	10.00	0.00
9,550.00	55.82	189.60	9,301.02	471.41	-1,241.88	-467.94	10.00	10.00	0.00
9,600.00	60.82	189.60	9,327.27	429.47	-1,248.97	-425.98	10.00	10.00	0.00
9,650.00	65.82	189.60	9,349.71	385.43	-1,256.42	-381.92	10.00	10.00	0.00
9,700.00	70.82	189.60	9,368.17	339.63	-1,264.17	-336.10	10.00	10.00	0.00
9,750.00	75.82	189.60	9,382.51	292.42	-1,272.15	-288.86	10.00	10.00	0.00
9,800.00	80.82	189.60	9,392.63	244.15	-1,280.31	-240.58	10.00	10.00	0.00
9,850.00	85.82	189.60	9,398.44	195.20	-1,288.59	-191.60	10.00	10.00	0.00
9,891.76	90.00	189.60	9,399.96	154.07	-1,295.55	-150.45	10.00	10.00	0.00
9,900.00	90.00	189.35	9,399.96	145.94	-1,296.91	-142.31	3.00	0.00	-3.00
10,000.00	90.00	186.35	9,399.96	46.89	-1,310.57	-43.23	3.00	0.00	-3.00
10,100.00	90.00	183.35	9,399.96	-52.75	-1,319.03	56.43	3.00	0.00	-3.00
10,206.35	90.00	180.16	9,399.96	-159.03	-1,322.29	162.72	3.00	0.00	-3.00
10,300.00	90.00	180.16	9,399.96	-252.68	-1,322.55	256.37	0.00	0.00	0.00
10,400.00	90.00	180.16	9,399.96	-352.68	-1,322.84	356.37	0.00	0.00	0.00
10,500.00	90.00	180.16	9,399.96	-452.68	-1,323.12	456.37	0.00	0.00	0.00
10,600.00	90.00	180.16	9,399.96	-552.68	-1,323.40	556.37	0.00	0.00	0.00
10,700.00	90.00	180.16	9,399.96	-652.68	-1,323.69	656.37	0.00	0.00	0.00
10,800.00	90.00	180.16	9,399.97	-752.68	-1,323.97	756.37	0.00	0.00	0.00
10,900.00	90.00	180.16	9,399.97	-852.68	-1,324.25	856.37	0.00	0.00	0.00
11,000.00	90.00	180.16	9,399.97	-952.68	-1,324.54	956.37	0.00	0.00	0.00
11,100.00	90.00	180.16	9,399.97	-1,052.68	-1,324.82	1,056.37	0.00	0.00	0.00
11,200.00	90.00	180.16	9,399.97	-1,152.68	-1,325.10	1,156.37	0.00	0.00	0.00
11,300.00	90.00	180.16	9,399.97	-1,252.68	-1,325.39	1,256.37	0.00	0.00	0.00
11,400.00	90.00	180.16	9,399.97	-1,352.68	-1,325.67	1,356.37	0.00	0.00	0.00
11,500.00	90.00	180.16	9,399.97	-1,452.68	-1,325.95	1,456.37	0.00	0.00	0.00

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Survey Calculation Method: Minimum Curvature
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)
11,600.00	90.00	180.16	9,399.97	-1,552.68	-1,326.24	1,556.37	0.00	0.00	0.00
11,700.00	90.00	180.16	9,399.97	-1,652.68	-1,326.52	1,656.37	0.00	0.00	0.00
11,800.00	90.00	180.16	9,399.98	-1,752.67	-1,326.80	1,756.37	0.00	0.00	0.00
11,900.00	90.00	180.16	9,399.98	-1,852.67	-1,327.09	1,856.37	0.00	0.00	0.00
12,000.00	90.00	180.16	9,399.98	-1,952.67	-1,327.37	1,956.37	0.00	0.00	0.00
12,100.00	90.00	180.16	9,399.98	-2,052.67	-1,327.65	2,056.37	0.00	0.00	0.00
12,200.00	90.00	180.16	9,399.98	-2,152.67	-1,327.94	2,156.37	0.00	0.00	0.00
12,300.00	90.00	180.16	9,399.98	-2,252.67	-1,328.22	2,256.37	0.00	0.00	0.00
12,400.00	90.00	180.16	9,399.98	-2,352.67	-1,328.50	2,356.37	0.00	0.00	0.00
12,500.00	90.00	180.16	9,399.98	-2,452.67	-1,328.79	2,456.37	0.00	0.00	0.00
12,600.00	90.00	180.16	9,399.98	-2,552.67	-1,329.07	2,556.37	0.00	0.00	0.00
12,700.00	90.00	180.16	9,399.98	-2,652.67	-1,329.35	2,656.37	0.00	0.00	0.00
12,800.00	90.00	180.16	9,399.99	-2,752.67	-1,329.64	2,756.37	0.00	0.00	0.00
12,900.00	90.00	180.16	9,399.99	-2,852.67	-1,329.92	2,856.37	0.00	0.00	0.00
13,000.00	90.00	180.16	9,399.99	-2,952.67	-1,330.20	2,956.37	0.00	0.00	0.00
13,100.00	90.00	180.16	9,399.99	-3,052.67	-1,330.49	3,056.37	0.00	0.00	0.00
13,200.00	90.00	180.16	9,399.99	-3,152.67	-1,330.77	3,156.37	0.00	0.00	0.00
13,300.00	90.00	180.16	9,399.99	-3,252.67	-1,331.05	3,256.37	0.00	0.00	0.00
13,400.00	90.00	180.16	9,399.99	-3,352.67	-1,331.34	3,356.37	0.00	0.00	0.00
13,500.00	90.00	180.16	9,399.99	-3,452.67	-1,331.62	3,456.37	0.00	0.00	0.00
13,600.00	90.00	180.16	9,399.99	-3,552.67	-1,331.90	3,556.37	0.00	0.00	0.00
13,700.00	90.00	180.16	9,399.99	-3,652.67	-1,332.18	3,656.37	0.00	0.00	0.00
13,800.00	90.00	180.16	9,400.00	-3,752.67	-1,332.47	3,756.37	0.00	0.00	0.00
13,900.00	90.00	180.16	9,400.00	-3,852.67	-1,332.75	3,856.37	0.00	0.00	0.00
14,000.00	90.00	180.16	9,400.00	-3,952.67	-1,333.03	3,956.37	0.00	0.00	0.00
14,100.00	90.00	180.16	9,400.00	-4,052.67	-1,333.32	4,056.37	0.00	0.00	0.00
14,200.00	90.00	180.16	9,400.00	-4,152.67	-1,333.60	4,156.37	0.00	0.00	0.00
14,217.34	90.00	180.16	9,400.00	-4,170.00	-1,333.65	4,173.71	0.00	0.00	0.00
[RickDeckard#6H]LTP/BHL									
14,262.34	90.00	180.16	9,400.00	-4,215.00	-1,333.78	4,218.71	0.00	0.00	0.00

Company: Marathon Oil
Project: Eddy County, NM

Site: Rick Deckard State 25-28-4 (2-3-6-8-9)

Well: WXY #6H

Wellbore: OH

Design: Prelim Plan A

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Database:

Well WXY #6H

Well @ 3024.00usft (GL: 2999' + KB: 25'
(PD594))

Well @ 3024.00usft (GL: 2999' + KB: 25'
(PD594))

Grid

Minimum Curvature

WellPlanner1

Design Targets

Target Name

- hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
[RickDeckard#6H]FTP - plan misses target center by 1408.23usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E) - Point	0.00	0.00	0.00	489.04	-1,320.59	424,002.61	572,367.00	32.165484	-104.099467
[RickDeckard#6H]KOP - plan misses target center by 119.94usft at 8991.76usft MD (8827.00 TVD, 719.00 N, -1200.00 E) - Point	0.00	0.01	8,827.00	719.04	-1,319.94	424,232.61	572,367.65	32.166116	-104.099463
[RickDeckard#6H]LTP/B - plan hits target center - Point	0.00	0.00	9,400.00	-4,170.00	-1,333.65	419,343.57	572,353.94	32.152676	-104.099542

Checked By: _____ Approved By: _____ Date: _____

Marathon Oil Corporation

Marathon Oil
Eddy County, NM
Rick Deckard State 25-28-4 (2-3-6-8-9)
WXY #8H
Prelim Plan A
GL: 2999' + KB: 25' (PD594)

US State Plane 1927 (E-rad solution)
NAD 1983 (NADCON CONUS)
Clarke 1866
New Mexico East 3001
Mean Sea Level

RKB Elevation: Well @ 3024.00usft (GL: 2999' + KB: 25' (PD594))

N/S	E/W	Northing	Easting	Latitude	Longitude	Spot
0.00	0.00	423513.57	873687.59	32.164132	-104.095202	

SECTION DETAILS

Sec	MD	Inc	API	TVD	N-S	E-W	Dleg	Vsect
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	2200.00	14.00	300.93	2183.08	43.74	-73.00	2.00	-43.53
4	7279.00	14.00	300.83	7121.19	675.28	-1127.00	0.00	-872.11
5	7979.00	0.00	0.00	7814.24	719.00	-1200.00	2.00	-715.85
6	8991.76	0.00	0.00	8827.00	719.00	-1200.00	0.00	-715.85
7	8991.76	90.00	189.60	9399.96	154.07	-1295.55	10.00	-150.45
8	10206.35	90.00	180.16	9399.96	-159.03	-1322.29	3.00	162.72
9	14217.33	90.00	180.16	9400.00	-4170.00	-1333.65	0.00	4173.71
10	14262.33	90.00	180.16	9400.00	-4215.00	-1333.78	0.00	4218.71

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	N-S	E-W	Northing	Easting
(RickDeckard)HIFTP	0.00	489.04	-1320.59	424002.61	572367.00
(RickDeckard)MHKOP	8827.00	719.04	-1319.84	424232.61	572367.55
(RickDeckard)HJLTP/BHL	9400.00	-4170.00	-1333.65	419043.67	572353.94



PRODIRECTIONAL



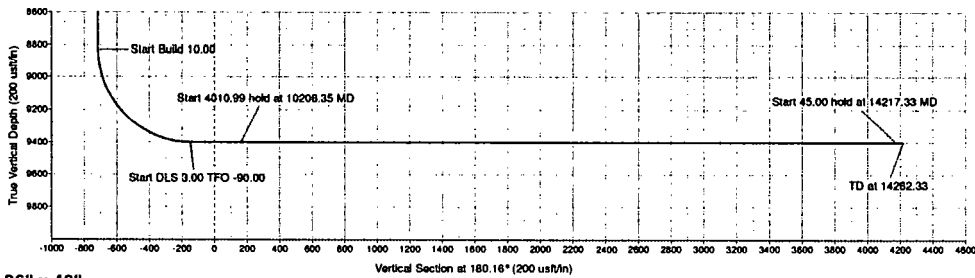
Azimuths to Grid North
True North: 0.13°
Magnetic North: 7.09°
Magnetic Field
Strength: 47814 amT
Dip Angle: 59.91°
Date: 8/7/2018
Model: HDGM

Azimuth Corrections

Total Magnetic Corr. (M to G): 7.09°

Declination (M to T): 7.22° East

Target Line: 9400' TVD @ 0° VS: 90° INC



36" x 48"

