

Matador Resources

**Eddy County, NM (NAD27)
Leatherneck 3029 Fed Com
#136H**

RECEIVED

JUL 29 2019

DISTRICT II-ARTESIA O.C.D.

OH

Plan: Prelim A

Standard Planning Report

22 May, 2019

Pro Directional Planning Report

Database: WellPlanner1
Company: Matador Resources
Project: Eddy County, NM (NAD27)
Site: Leatherneck 3029 Fed Com
Well: #136H
Wellbore: OH
Design: Prelim A

Local Co-ordinate Reference: Well #136H
TVD Reference: 3240 + 28.5 = KB @ 3268.50usft (Patt 809)
MD Reference: 3240 + 28.5 = KB @ 3268.50usft (Patt 809)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project	Eddy County, NM (NAD27)		
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: Leatherneck 3029 Fed Com

Site Position: Northing: 562,887.00 usft Latitude: 32.547306
From: Map Easting: 565,342.00 usft Longitude: -104.121280
Position Uncertainty: 0.00 usft Slot Radius: 13-3/16 " Grid Convergence: 0.11 °

Well: #136H

Well Position: +N/-S 30.00 usft Northing: 562,917.00 usft Latitude: 32.547388
+E/-W 0.00 usft Easting: 565,342.00 usft Longitude: -104.121280
Position Uncertainty: 0.00 usft Wellhead Elevation: Ground Level: 3,240.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	5/20/2019	7.20	60.30	47,977.70

Design: Prelim A

Audit Notes:

Version: Phase: PROTOTYPE Tie On Depth: 0.00

Vertical Section: Depth From (TVD) (usft) +N/-S (usft) +E/-W (usft) Direction (°)
0.00 0.00 0.00 90.05

Plan Survey Tool Program		Date	5/22/2019		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	19,286.90 Prelim A (OH)	MWD+HDGM		
			OWSG MWD + HRGM		

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Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	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	2.00	90.00	1,099.98	0.00	1.75	2.00	2.00	0.00	90.00	
2,200.69	2.00	90.00	2,200.00	0.00	40.16	0.00	0.00	0.00	0.00	
2,713.44	9.47	197.65	2,710.46	-40.31	36.30	2.00	1.46	21.00	118.26	
7,091.24	9.47	197.65	7,028.58	-726.78	-182.16	0.00	0.00	0.00	0.00	
7,564.81	0.00	0.00	7,500.00	-764.00	-194.00	2.00	-2.00	0.00	180.00	
8,601.85	0.00	0.00	8,537.04	-764.00	-194.00	0.00	0.00	0.00	0.00	
9,501.85	90.00	90.05	9,110.00	-764.50	378.96	10.00	10.00	10.01	90.05	
19,286.90	90.00	90.05	9,110.00	-773.00	10,164.00	0.00	0.00	0.00	0.00	BHL (Leatherneck f

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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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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
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	2.00	90.00	1,099.98	0.00	1.75	1.75	2.00	2.00	0.00
1,200.00	2.00	90.00	1,199.92	0.00	5.24	5.24	0.00	0.00	0.00
1,300.00	2.00	90.00	1,299.86	0.00	8.73	8.73	0.00	0.00	0.00
1,400.00	2.00	90.00	1,399.80	0.00	12.22	12.21	0.00	0.00	0.00
1,500.00	2.00	90.00	1,499.74	0.00	15.70	15.70	0.00	0.00	0.00
1,600.00	2.00	90.00	1,599.68	0.00	19.19	19.19	0.00	0.00	0.00
1,700.00	2.00	90.00	1,699.61	0.00	22.68	22.68	0.00	0.00	0.00
1,800.00	2.00	90.00	1,799.55	0.00	26.17	26.17	0.00	0.00	0.00
1,900.00	2.00	90.00	1,899.49	0.00	29.66	29.66	0.00	0.00	0.00
2,000.00	2.00	90.00	1,999.43	0.00	33.15	33.15	0.00	0.00	0.00
2,100.00	2.00	90.00	2,099.37	0.00	36.64	36.64	0.00	0.00	0.00
2,200.69	2.00	90.00	2,200.00	0.00	40.16	40.16	0.00	0.00	0.00
2,300.00	2.04	148.81	2,299.26	-1.52	42.81	42.81	2.00	0.05	59.22
2,400.00	3.51	178.20	2,399.14	-6.10	43.83	43.83	2.00	1.47	29.39
2,500.00	5.34	189.06	2,498.84	-13.76	43.19	43.21	2.00	1.83	10.85
2,600.00	7.25	194.30	2,598.23	-24.47	40.90	40.92	2.00	1.92	5.24
2,700.00	9.21	197.34	2,697.20	-38.23	36.96	36.99	2.00	1.95	3.04
2,713.44	9.47	197.65	2,710.46	-40.31	36.30	36.34	2.00	1.96	2.33
2,800.00	9.47	197.65	2,795.84	-53.88	31.98	32.03	0.00	0.00	0.00
2,900.00	9.47	197.65	2,894.48	-69.56	26.99	27.05	0.00	0.00	0.00
3,000.00	9.47	197.65	2,993.12	-85.24	22.00	22.08	0.00	0.00	0.00
3,100.00	9.47	197.65	3,091.75	-100.93	17.01	17.10	0.00	0.00	0.00
3,200.00	9.47	197.65	3,190.39	-116.61	12.02	12.12	0.00	0.00	0.00
3,300.00	9.47	197.65	3,289.03	-132.29	7.03	7.15	0.00	0.00	0.00
3,400.00	9.47	197.65	3,387.66	-147.97	2.04	2.17	0.00	0.00	0.00
3,500.00	9.47	197.65	3,486.30	-163.65	-2.95	-2.81	0.00	0.00	0.00
3,600.00	9.47	197.65	3,584.94	-179.33	-7.94	-7.78	0.00	0.00	0.00
3,700.00	9.47	197.65	3,683.57	-195.01	-12.93	-12.76	0.00	0.00	0.00
3,800.00	9.47	197.65	3,782.21	-210.69	-17.92	-17.73	0.00	0.00	0.00
3,900.00	9.47	197.65	3,880.85	-226.37	-22.91	-22.71	0.00	0.00	0.00
4,000.00	9.47	197.65	3,979.48	-242.05	-27.90	-27.69	0.00	0.00	0.00
4,100.00	9.47	197.65	4,078.12	-257.73	-32.89	-32.66	0.00	0.00	0.00
4,200.00	9.47	197.65	4,176.76	-273.41	-37.88	-37.64	0.00	0.00	0.00
4,300.00	9.47	197.65	4,275.39	-289.10	-42.87	-42.62	0.00	0.00	0.00
4,400.00	9.47	197.65	4,374.03	-304.78	-47.86	-47.59	0.00	0.00	0.00
4,500.00	9.47	197.65	4,472.67	-320.46	-52.85	-52.57	0.00	0.00	0.00
4,600.00	9.47	197.65	4,571.30	-336.14	-57.84	-57.55	0.00	0.00	0.00
4,700.00	9.47	197.65	4,669.94	-351.82	-62.83	-62.52	0.00	0.00	0.00
4,800.00	9.47	197.65	4,768.58	-367.50	-67.82	-67.50	0.00	0.00	0.00
4,900.00	9.47	197.65	4,867.21	-383.18	-72.81	-72.48	0.00	0.00	0.00
5,000.00	9.47	197.65	4,965.85	-398.86	-77.80	-77.45	0.00	0.00	0.00
5,100.00	9.47	197.65	5,064.49	-414.54	-82.79	-82.43	0.00	0.00	0.00
5,200.00	9.47	197.65	5,163.12	-430.22	-87.78	-87.41	0.00	0.00	0.00

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5,300.00	9.47	197.65	5,261.76	-445.90	-92.77	-92.38	0.00	0.00	0.00
5,400.00	9.47	197.65	5,360.40	-461.58	-97.76	-97.36	0.00	0.00	0.00
5,500.00	9.47	197.65	5,459.03	-477.27	-102.75	-102.34	0.00	0.00	0.00
5,600.00	9.47	197.65	5,557.67	-492.95	-107.74	-107.31	0.00	0.00	0.00
5,700.00	9.47	197.65	5,656.31	-508.63	-112.73	-112.29	0.00	0.00	0.00
5,800.00	9.47	197.65	5,754.94	-524.31	-117.72	-117.26	0.00	0.00	0.00
5,900.00	9.47	197.65	5,853.58	-539.99	-122.71	-122.24	0.00	0.00	0.00
6,000.00	9.47	197.65	5,952.22	-555.67	-127.70	-127.22	0.00	0.00	0.00
6,100.00	9.47	197.65	6,050.85	-571.35	-132.69	-132.19	0.00	0.00	0.00
6,200.00	9.47	197.65	6,149.49	-587.03	-137.68	-137.17	0.00	0.00	0.00
6,300.00	9.47	197.65	6,248.13	-602.71	-142.67	-142.15	0.00	0.00	0.00
6,400.00	9.47	197.65	6,346.76	-618.39	-147.66	-147.12	0.00	0.00	0.00
6,500.00	9.47	197.65	6,445.40	-634.07	-152.65	-152.10	0.00	0.00	0.00
6,600.00	9.47	197.65	6,544.04	-649.75	-157.64	-157.08	0.00	0.00	0.00
6,700.00	9.47	197.65	6,642.68	-665.44	-162.63	-162.05	0.00	0.00	0.00
6,800.00	9.47	197.65	6,741.31	-681.12	-167.62	-167.03	0.00	0.00	0.00
6,900.00	9.47	197.65	6,839.95	-696.80	-172.61	-172.01	0.00	0.00	0.00
7,000.00	9.47	197.65	6,938.59	-712.48	-177.60	-176.98	0.00	0.00	0.00
7,091.24	9.47	197.65	7,028.58	-726.78	-182.16	-181.52	0.00	0.00	0.00
7,100.00	9.30	197.65	7,037.22	-728.15	-182.59	-181.95	2.00	-2.00	0.00
7,200.00	7.30	197.65	7,136.17	-741.90	-186.97	-186.32	2.00	-2.00	0.00
7,300.00	5.30	197.65	7,235.56	-752.35	-190.29	-189.63	2.00	-2.00	0.00
7,400.00	3.30	197.65	7,335.28	-759.48	-192.56	-191.90	2.00	-2.00	0.00
7,500.00	1.30	197.65	7,435.19	-763.30	-193.78	-193.11	2.00	-2.00	0.00
7,564.81	0.00	0.00	7,500.00	-764.00	-194.00	-193.33	2.00	-2.00	0.00
7,600.00	0.00	0.00	7,535.19	-764.00	-194.00	-193.33	0.00	0.00	0.00
7,700.00	0.00	0.00	7,635.19	-764.00	-194.00	-193.33	0.00	0.00	0.00
7,800.00	0.00	0.00	7,735.19	-764.00	-194.00	-193.33	0.00	0.00	0.00
7,900.00	0.00	0.00	7,835.19	-764.00	-194.00	-193.33	0.00	0.00	0.00
8,000.00	0.00	0.00	7,935.19	-764.00	-194.00	-193.33	0.00	0.00	0.00
8,100.00	0.00	0.00	8,035.19	-764.00	-194.00	-193.33	0.00	0.00	0.00
8,200.00	0.00	0.00	8,135.19	-764.00	-194.00	-193.33	0.00	0.00	0.00
8,300.00	0.00	0.00	8,235.19	-764.00	-194.00	-193.33	0.00	0.00	0.00
8,400.00	0.00	0.00	8,335.19	-764.00	-194.00	-193.33	0.00	0.00	0.00
8,500.00	0.00	0.00	8,435.19	-764.00	-194.00	-193.33	0.00	0.00	0.00
8,601.85	0.00	0.00	8,537.04	-764.00	-194.00	-193.33	0.00	0.00	0.00
8,650.00	4.81	90.05	8,585.13	-764.00	-191.98	-191.31	10.00	10.00	0.00
8,700.00	9.81	90.05	8,634.71	-764.01	-185.61	-184.95	10.00	10.00	0.00
8,750.00	14.81	90.05	8,683.54	-764.02	-174.95	-174.29	10.00	10.00	0.00
8,800.00	19.81	90.05	8,731.26	-764.03	-160.08	-159.41	10.00	10.00	0.00
8,850.00	24.81	90.05	8,777.50	-764.05	-141.10	-140.43	10.00	10.00	0.00
8,900.00	29.81	90.05	8,821.91	-764.07	-118.16	-117.50	10.00	10.00	0.00
8,950.00	34.81	90.05	8,864.16	-764.09	-91.44	-90.78	10.00	10.00	0.00
9,000.00	39.81	90.05	8,903.91	-764.12	-61.14	-60.48	10.00	10.00	0.00
9,050.00	44.81	90.05	8,940.87	-764.14	-27.49	-26.83	10.00	10.00	0.00
9,100.00	49.81	90.05	8,974.76	-764.18	9.25	9.92	10.00	10.00	0.00
9,150.00	54.81	90.05	9,005.31	-764.21	48.81	49.47	10.00	10.00	0.00
9,200.00	59.81	90.05	9,032.31	-764.25	90.88	91.54	10.00	10.00	0.00
9,250.00	64.81	90.05	9,055.53	-764.29	135.14	135.80	10.00	10.00	0.00
9,300.00	69.81	90.05	9,074.81	-764.33	181.25	181.92	10.00	10.00	0.00
9,350.00	74.81	90.05	9,089.99	-764.37	228.88	229.54	10.00	10.00	0.00
9,400.00	79.81	90.05	9,100.97	-764.41	277.64	278.31	10.00	10.00	0.00
9,450.00	84.81	90.05	9,107.65	-764.45	327.18	327.84	10.00	10.00	0.00
9,501.85	90.00	90.05	9,110.00	-764.50	378.96	379.62	10.00	10.00	0.00

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9,600.00	90.00	90.05	9,110.00	-764.58	477.10	477.77	0.00	0.00	0.00
9,700.00	90.00	90.05	9,110.00	-764.67	577.10	577.77	0.00	0.00	0.00
9,800.00	90.00	90.05	9,110.00	-764.76	677.10	677.77	0.00	0.00	0.00
9,900.00	90.00	90.05	9,110.00	-764.84	777.10	777.77	0.00	0.00	0.00
10,000.00	90.00	90.05	9,110.00	-764.93	877.10	877.77	0.00	0.00	0.00
10,100.00	90.00	90.05	9,110.00	-765.02	977.10	977.77	0.00	0.00	0.00
10,200.00	90.00	90.05	9,110.00	-765.10	1,077.10	1,077.77	0.00	0.00	0.00
10,300.00	90.00	90.05	9,110.00	-765.19	1,177.10	1,177.77	0.00	0.00	0.00
10,400.00	90.00	90.05	9,110.00	-765.28	1,277.10	1,277.77	0.00	0.00	0.00
10,500.00	90.00	90.05	9,110.00	-765.37	1,377.10	1,377.77	0.00	0.00	0.00
10,600.00	90.00	90.05	9,110.00	-765.45	1,477.10	1,477.77	0.00	0.00	0.00
10,700.00	90.00	90.05	9,110.00	-765.54	1,577.10	1,577.77	0.00	0.00	0.00
10,800.00	90.00	90.05	9,110.00	-765.63	1,677.10	1,677.77	0.00	0.00	0.00
10,900.00	90.00	90.05	9,110.00	-765.71	1,777.10	1,777.77	0.00	0.00	0.00
11,000.00	90.00	90.05	9,110.00	-765.80	1,877.10	1,877.77	0.00	0.00	0.00
11,100.00	90.00	90.05	9,110.00	-765.89	1,977.10	1,977.77	0.00	0.00	0.00
11,200.00	90.00	90.05	9,110.00	-765.97	2,077.10	2,077.77	0.00	0.00	0.00
11,300.00	90.00	90.05	9,110.00	-766.06	2,177.10	2,177.77	0.00	0.00	0.00
11,400.00	90.00	90.05	9,110.00	-766.15	2,277.10	2,277.77	0.00	0.00	0.00
11,500.00	90.00	90.05	9,110.00	-766.23	2,377.10	2,377.77	0.00	0.00	0.00
11,600.00	90.00	90.05	9,110.00	-766.32	2,477.10	2,477.77	0.00	0.00	0.00
11,700.00	90.00	90.05	9,110.00	-766.41	2,577.10	2,577.77	0.00	0.00	0.00
11,800.00	90.00	90.05	9,110.00	-766.49	2,677.10	2,677.77	0.00	0.00	0.00
11,900.00	90.00	90.05	9,110.00	-766.58	2,777.10	2,777.77	0.00	0.00	0.00
12,000.00	90.00	90.05	9,110.00	-766.67	2,877.10	2,877.77	0.00	0.00	0.00
12,100.00	90.00	90.05	9,110.00	-766.76	2,977.10	2,977.77	0.00	0.00	0.00
12,200.00	90.00	90.05	9,110.00	-766.84	3,077.10	3,077.77	0.00	0.00	0.00
12,300.00	90.00	90.05	9,110.00	-766.93	3,177.10	3,177.77	0.00	0.00	0.00
12,400.00	90.00	90.05	9,110.00	-767.02	3,277.10	3,277.77	0.00	0.00	0.00
12,500.00	90.00	90.05	9,110.00	-767.10	3,377.10	3,377.77	0.00	0.00	0.00
12,600.00	90.00	90.05	9,110.00	-767.19	3,477.10	3,477.77	0.00	0.00	0.00
12,700.00	90.00	90.05	9,110.00	-767.28	3,577.10	3,577.77	0.00	0.00	0.00
12,800.00	90.00	90.05	9,110.00	-767.36	3,677.10	3,677.77	0.00	0.00	0.00
12,900.00	90.00	90.05	9,110.00	-767.45	3,777.10	3,777.77	0.00	0.00	0.00
13,000.00	90.00	90.05	9,110.00	-767.54	3,877.10	3,877.77	0.00	0.00	0.00
13,100.00	90.00	90.05	9,110.00	-767.62	3,977.10	3,977.77	0.00	0.00	0.00
13,200.00	90.00	90.05	9,110.00	-767.71	4,077.10	4,077.77	0.00	0.00	0.00
13,300.00	90.00	90.05	9,110.00	-767.80	4,177.10	4,177.77	0.00	0.00	0.00
13,400.00	90.00	90.05	9,110.00	-767.88	4,277.10	4,277.77	0.00	0.00	0.00
13,500.00	90.00	90.05	9,110.00	-767.97	4,377.10	4,377.77	0.00	0.00	0.00
13,600.00	90.00	90.05	9,110.00	-768.06	4,477.10	4,477.77	0.00	0.00	0.00
13,700.00	90.00	90.05	9,110.00	-768.15	4,577.10	4,577.77	0.00	0.00	0.00
13,800.00	90.00	90.05	9,110.00	-768.23	4,677.10	4,677.77	0.00	0.00	0.00
13,900.00	90.00	90.05	9,110.00	-768.32	4,777.10	4,777.77	0.00	0.00	0.00
14,000.00	90.00	90.05	9,110.00	-768.41	4,877.10	4,877.77	0.00	0.00	0.00
14,100.00	90.00	90.05	9,110.00	-768.49	4,977.10	4,977.77	0.00	0.00	0.00
14,200.00	90.00	90.05	9,110.00	-768.58	5,077.10	5,077.77	0.00	0.00	0.00
14,300.00	90.00	90.05	9,110.00	-768.67	5,177.10	5,177.77	0.00	0.00	0.00
14,400.00	90.00	90.05	9,110.00	-768.75	5,277.10	5,277.77	0.00	0.00	0.00
14,500.00	90.00	90.05	9,110.00	-768.84	5,377.10	5,377.77	0.00	0.00	0.00
14,600.00	90.00	90.05	9,110.00	-768.93	5,477.10	5,477.77	0.00	0.00	0.00
14,700.00	90.00	90.05	9,110.00	-769.01	5,577.10	5,577.77	0.00	0.00	0.00
14,800.00	90.00	90.05	9,110.00	-769.10	5,677.10	5,677.77	0.00	0.00	0.00
14,900.00	90.00	90.05	9,110.00	-769.19	5,777.10	5,777.77	0.00	0.00	0.00

Pro Directional Planning Report

Database: WellPlanner1
Company: Matador Resources
Project: Eddy County, NM (NAD27)
Site: Leatherneck 3029 Fed Com
Well: #136H
Wellbore: OH
Design: Prelim A

Local Co-ordinate Reference: Well #136H
TVD Reference: 3240 + 28.5 = KB @ 3268.50usft (Patt 809)
MD Reference: 3240 + 28.5 = KB @ 3268.50usft (Patt 809)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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)
15,000.00	90.00	90.05	9,110.00	-769.28	5,877.10	5,877.77	0.00	0.00	0.00
15,100.00	90.00	90.05	9,110.00	-769.36	5,977.10	5,977.77	0.00	0.00	0.00
15,200.00	90.00	90.05	9,110.00	-769.45	6,077.10	6,077.77	0.00	0.00	0.00
15,300.00	90.00	90.05	9,110.00	-769.54	6,177.10	6,177.77	0.00	0.00	0.00
15,400.00	90.00	90.05	9,110.00	-769.62	6,277.10	6,277.77	0.00	0.00	0.00
15,500.00	90.00	90.05	9,110.00	-769.71	6,377.10	6,377.77	0.00	0.00	0.00
15,600.00	90.00	90.05	9,110.00	-769.80	6,477.10	6,477.77	0.00	0.00	0.00
15,700.00	90.00	90.05	9,110.00	-769.88	6,577.10	6,577.77	0.00	0.00	0.00
15,800.00	90.00	90.05	9,110.00	-769.97	6,677.10	6,677.77	0.00	0.00	0.00
15,900.00	90.00	90.05	9,110.00	-770.06	6,777.10	6,777.77	0.00	0.00	0.00
16,000.00	90.00	90.05	9,110.00	-770.14	6,877.10	6,877.77	0.00	0.00	0.00
16,100.00	90.00	90.05	9,110.00	-770.23	6,977.10	6,977.77	0.00	0.00	0.00
16,200.00	90.00	90.05	9,110.00	-770.32	7,077.10	7,077.77	0.00	0.00	0.00
16,300.00	90.00	90.05	9,110.00	-770.40	7,177.10	7,177.77	0.00	0.00	0.00
16,400.00	90.00	90.05	9,110.00	-770.49	7,277.10	7,277.77	0.00	0.00	0.00
16,500.00	90.00	90.05	9,110.00	-770.58	7,377.10	7,377.77	0.00	0.00	0.00
16,600.00	90.00	90.05	9,110.00	-770.67	7,477.10	7,477.77	0.00	0.00	0.00
16,700.00	90.00	90.05	9,110.00	-770.75	7,577.10	7,577.77	0.00	0.00	0.00
16,800.00	90.00	90.05	9,110.00	-770.84	7,677.10	7,677.77	0.00	0.00	0.00
16,900.00	90.00	90.05	9,110.00	-770.93	7,777.10	7,777.77	0.00	0.00	0.00
17,000.00	90.00	90.05	9,110.00	-771.01	7,877.10	7,877.77	0.00	0.00	0.00
17,100.00	90.00	90.05	9,110.00	-771.10	7,977.10	7,977.77	0.00	0.00	0.00
17,200.00	90.00	90.05	9,110.00	-771.19	8,077.10	8,077.77	0.00	0.00	0.00
17,300.00	90.00	90.05	9,110.00	-771.27	8,177.10	8,177.77	0.00	0.00	0.00
17,400.00	90.00	90.05	9,110.00	-771.36	8,277.10	8,277.77	0.00	0.00	0.00
17,500.00	90.00	90.05	9,110.00	-771.45	8,377.10	8,377.77	0.00	0.00	0.00
17,600.00	90.00	90.05	9,110.00	-771.53	8,477.10	8,477.77	0.00	0.00	0.00
17,700.00	90.00	90.05	9,110.00	-771.62	8,577.10	8,577.77	0.00	0.00	0.00
17,800.00	90.00	90.05	9,110.00	-771.71	8,677.10	8,677.77	0.00	0.00	0.00
17,900.00	90.00	90.05	9,110.00	-771.79	8,777.10	8,777.77	0.00	0.00	0.00
18,000.00	90.00	90.05	9,110.00	-771.88	8,877.10	8,877.77	0.00	0.00	0.00
18,100.00	90.00	90.05	9,110.00	-771.97	8,977.10	8,977.77	0.00	0.00	0.00
18,200.00	90.00	90.05	9,110.00	-772.06	9,077.10	9,077.77	0.00	0.00	0.00
18,300.00	90.00	90.05	9,110.00	-772.14	9,177.10	9,177.77	0.00	0.00	0.00
18,400.00	90.00	90.05	9,110.00	-772.23	9,277.10	9,277.77	0.00	0.00	0.00
18,500.00	90.00	90.05	9,110.00	-772.32	9,377.10	9,377.77	0.00	0.00	0.00
18,600.00	90.00	90.05	9,110.00	-772.40	9,477.10	9,477.77	0.00	0.00	0.00
18,700.00	90.00	90.05	9,110.00	-772.49	9,577.10	9,577.77	0.00	0.00	0.00
18,800.00	90.00	90.05	9,110.00	-772.58	9,677.10	9,677.77	0.00	0.00	0.00
18,900.00	90.00	90.05	9,110.00	-772.66	9,777.10	9,777.77	0.00	0.00	0.00
19,000.00	90.00	90.05	9,110.00	-772.75	9,877.10	9,877.77	0.00	0.00	0.00
19,100.00	90.00	90.05	9,110.00	-772.84	9,977.10	9,977.77	0.00	0.00	0.00
19,200.00	90.00	90.05	9,110.00	-772.92	10,077.10	10,077.77	0.00	0.00	0.00
19,286.90	90.00	90.05	9,110.00	-773.00	10,164.00	10,164.67	0.00	0.00	0.00

Pro Directional Planning Report

Database: WellPlanner1
Company: Matador Resources
Project: Eddy County, NM (NAD27)
Site: Leatherneck 3029 Fed Com
Well: #136H
Wellbore: OH
Design: Prelim A

Local Co-ordinate Reference: Well #136H
TVD Reference: 3240 + 28.5 = KB @ 3268.50usft (Patt 809)
MD Reference: 3240 + 28.5 = KB @ 3268.50usft (Patt 809)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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
BHL (Leatherneck Fe - plan hits target center - Point	0.00	0.00	9,110.00	-773.00	10,164.00	562,144.00	575,506.00	32.545203	-104.088301
FPP (Leatherneck Fe - plan misses target center by 202.78usft at 9079.03usft MD (8960.94 TVD, -764.16 N, -6.52 E) - Point	0.00	0.00	9,110.00	-764.00	-144.00	562,153.00	565,198.00	32.545289	-104.121752