



30-015-44139

Matador Resources

Eddy County, New Mexico (NAD 27)

Jim Tom Lontos 30-23S-28E RB

#206H

Wellbore #1

NM OIL CONSERVATION
ARTESIA DISTRICT

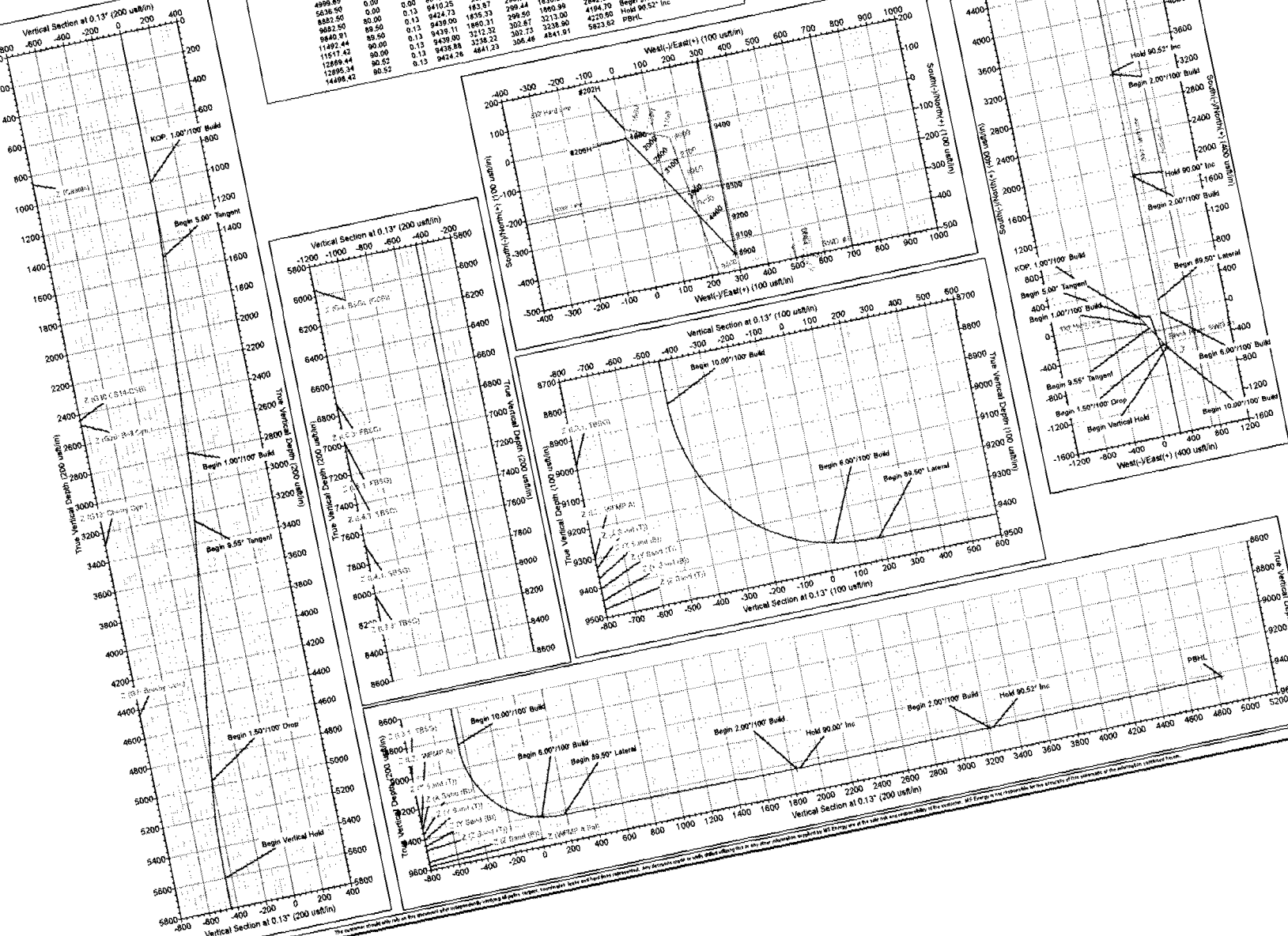
JUN 07 2017

Plan: Design #1

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Standard Planning Report

26 May, 2017





MS Energy Services

Planning Report



Database: EDM Conroe
Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Site: Jim Tom Lontos 30-23S-28E RB
Well: #206H
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well #206H
TVD Reference: WELL @ 3149.00usft (Patterson 810)
MD Reference: WELL @ 3149.00usft (Patterson 810)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
860.00	860.00	Z (Castile)		0.00	
2,443.22	2,439.00	Z (G30: CS14-CSB)		0.00	
2,475.35	2,471.00	Z (G26: Bell Cyn.)		0.00	
3,298.97	3,289.00	Z (G13: Cherry Cyn.)		0.00	
4,462.10	4,436.00	Z (G7: Brushy Cyn.)		0.00	
5,995.50	5,959.00	Z (G4: BSGL (CS9))		0.00	
6,757.50	6,721.00	Z (L5.3: FBSC)		0.00	
7,014.50	6,978.00	Z (L5.1: FBSC)		0.00	
7,263.50	7,227.00	Z (L4.3: SBSC)		0.00	
7,716.50	7,680.00	Z (L4.1: SBSC)		0.00	
8,056.50	8,020.00	Z (L3.3: TBSC)		0.00	
9,022.90	8,985.00	Z (L3.1: TBSC)		0.00	
9,404.95	9,299.00	Z (L2: WFMP A)		0.00	
9,462.70	9,332.00	Z (X Sand (T))		0.00	
9,539.03	9,368.00	Z (X Sand (B))		0.00	
9,638.67	9,401.00	Z (Y Sand (T))		0.00	

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,000.00	1,000.00	0.00	0.00	KOP, 1.00°/100' Build
1,500.00	1,499.37	-18.22	11.98	Begin 5.00° Tangent
2,800.00	2,794.42	-112.88	74.24	Begin 1.00°/100' Build
3,255.28	3,245.91	-161.04	105.92	Begin 9.55° Tangent
4,999.65	4,966.09	-402.91	265.00	Begin 1.50°/100' Drop
5,636.50	5,600.00	-447.16	294.11	Begin Vertical Hold
8,882.50	8,846.00	-447.16	294.11	Begin 10.00°/100' Build
9,682.50	9,410.25	26.30	295.21	Begin 6.00°/100' Build
9,840.91	9,424.73	183.87	295.58	Begin 89.50° Lateral
11,492.44	9,439.00	1,835.33	299.44	Begin 2.00°/100' Build
11,517.42	9,439.11	1,860.31	299.50	Hold 90.00° Inc
12,869.44	9,439.00	3,212.32	302.67	Begin 2.00°/100' Build
12,895.34	9,438.88	3,238.22	302.73	Hold 90.52° Inc
14,498.42	9,424.26	4,841.23	306.48	PBHL



MS Energy Services Planning Report



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MD Reference: WELL @ 3149.00usft (Patterson 810)
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)
12,900.00	90.52	0.13	9,438.84	3,242.89	302.74	3,243.56	0.00	0.00	0.00
13,000.00	90.52	0.13	9,437.93	3,342.88	302.97	3,343.56	0.00	0.00	0.00
13,100.00	90.52	0.13	9,437.01	3,442.88	303.21	3,443.56	0.00	0.00	0.00
13,200.00	90.52	0.13	9,436.10	3,542.87	303.44	3,543.55	0.00	0.00	0.00
13,300.00	90.52	0.13	9,435.19	3,642.87	303.67	3,643.55	0.00	0.00	0.00
13,400.00	90.52	0.13	9,434.28	3,742.86	303.91	3,743.54	0.00	0.00	0.00
13,500.00	90.52	0.13	9,433.37	3,842.86	304.14	3,843.54	0.00	0.00	0.00
13,600.00	90.52	0.13	9,432.45	3,942.85	304.37	3,943.53	0.00	0.00	0.00
13,700.00	90.52	0.13	9,431.54	4,042.85	304.61	4,043.53	0.00	0.00	0.00
13,800.00	90.52	0.13	9,430.63	4,142.85	304.84	4,143.53	0.00	0.00	0.00
13,900.00	90.52	0.13	9,429.72	4,242.84	305.08	4,243.52	0.00	0.00	0.00
14,000.00	90.52	0.13	9,428.81	4,342.84	305.31	4,343.52	0.00	0.00	0.00
14,100.00	90.52	0.13	9,427.89	4,442.83	305.54	4,443.51	0.00	0.00	0.00
14,200.00	90.52	0.13	9,426.98	4,542.83	305.78	4,543.51	0.00	0.00	0.00
14,300.00	90.52	0.13	9,426.07	4,642.82	306.01	4,643.51	0.00	0.00	0.00
14,400.00	90.52	0.13	9,425.16	4,742.82	306.25	4,743.50	0.00	0.00	0.00
14,498.42	90.52	0.13	9,424.26	4,841.23	306.48	4,841.91	0.00	0.00	0.00

PBHL

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
VP - Jim Tom Lontos 1 - plan hits target center - Point	0.00	0.00	5,600.00	-447.16	294.11	461,296.35	563,609.34	32° 16' 4.990 N	104° 7' 39.136 W
PBHL - Jim Tom Lontc - plan hits target center - Point	0.00	0.00	9,424.26	4,841.23	306.48	466,584.74	563,621.71	32° 16' 57.325 N	104° 7' 38.873 W
1836' VS - Jim Tom Lc - plan hits target center - Point	0.00	0.00	9,439.00	1,835.33	299.44	463,578.84	563,614.68	32° 16' 27.578 N	104° 7' 39.022 W
3213' VS - Jim Tom Lc - plan hits target center - Point	0.00	0.00	9,439.00	3,212.32	302.67	464,955.83	563,617.90	32° 16' 41.205 N	104° 7' 38.954 W

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
560.00	560.00	13 3/8"	13-3/8	17-1/2
2,550.00	2,545.37	9 5/8"	9-5/8	12-1/4
9,682.50	9,410.25	7"	7	7-1/2
14,498.42	9,424.26	5 1/2"	5-1/2	6



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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)
9,300.00	41.75	0.13	9,227.52	-301.66	294.45	-300.99	10.00	10.00	0.00
9,350.00	46.75	0.13	9,263.32	-266.79	294.53	-266.12	10.00	10.00	0.00
9,400.00	51.75	0.13	9,295.95	-228.92	294.62	-228.25	10.00	10.00	0.00
9,450.00	56.75	0.13	9,325.16	-188.35	294.71	-187.68	10.00	10.00	0.00
9,500.00	61.75	0.13	9,350.71	-145.40	294.81	-144.73	10.00	10.00	0.00
9,550.00	66.75	0.13	9,372.43	-100.38	294.92	-99.71	10.00	10.00	0.00
9,600.00	71.75	0.13	9,390.14	-53.63	295.03	-52.97	10.00	10.00	0.00
9,650.00	76.75	0.13	9,403.70	-5.53	295.14	-4.86	10.00	10.00	0.00
9,682.50	80.00	0.13	9,410.25	26.30	295.21	26.97	10.00	10.00	0.00
Begin 6.00°/100' Build									
9,700.00	81.05	0.13	9,413.13	43.56	295.25	44.23	6.00	6.00	0.00
9,750.00	84.05	0.13	9,419.62	93.13	295.37	93.80	6.00	6.00	0.00
9,800.00	87.05	0.13	9,423.50	142.98	295.49	143.65	6.00	6.00	0.00
9,840.91	89.50	0.13	9,424.73	183.87	295.58	184.54	6.00	6.00	0.00
Begin 89.50° Lateral									
9,900.00	89.50	0.13	9,425.24	242.95	295.72	243.62	0.00	0.00	0.00
10,000.00	89.50	0.13	9,426.10	342.95	295.95	343.62	0.00	0.00	0.00
10,100.00	89.50	0.13	9,426.96	442.95	296.19	443.62	0.00	0.00	0.00
10,200.00	89.50	0.13	9,427.83	542.94	296.42	543.61	0.00	0.00	0.00
10,300.00	89.50	0.13	9,428.69	642.94	296.66	643.61	0.00	0.00	0.00
10,400.00	89.50	0.13	9,429.56	742.93	296.89	743.61	0.00	0.00	0.00
10,500.00	89.50	0.13	9,430.42	842.93	297.12	843.60	0.00	0.00	0.00
10,600.00	89.50	0.13	9,431.29	942.93	297.36	943.60	0.00	0.00	0.00
10,700.00	89.50	0.13	9,432.15	1,042.92	297.59	1,043.59	0.00	0.00	0.00
10,800.00	89.50	0.13	9,433.02	1,142.92	297.83	1,143.59	0.00	0.00	0.00
10,900.00	89.50	0.13	9,433.88	1,242.91	298.06	1,243.59	0.00	0.00	0.00
11,000.00	89.50	0.13	9,434.74	1,342.91	298.29	1,343.58	0.00	0.00	0.00
11,100.00	89.50	0.13	9,435.61	1,442.91	298.53	1,443.58	0.00	0.00	0.00
11,200.00	89.50	0.13	9,436.47	1,542.90	298.76	1,543.58	0.00	0.00	0.00
11,300.00	89.50	0.13	9,437.34	1,642.90	298.99	1,643.57	0.00	0.00	0.00
11,400.00	89.50	0.13	9,438.20	1,742.89	299.23	1,743.57	0.00	0.00	0.00
11,492.44	89.50	0.13	9,439.00	1,835.33	299.44	1,836.00	0.00	0.00	0.00
Begin 2.00°/100' Build									
11,500.00	89.66	0.13	9,439.06	1,842.89	299.46	1,843.56	2.00	2.00	0.00
11,517.42	90.00	0.13	9,439.11	1,860.31	299.50	1,860.99	2.00	2.00	0.00
Hold 90.00° Inc									
11,600.00	90.00	0.13	9,439.10	1,942.89	299.70	1,943.56	0.00	0.00	0.00
11,700.00	90.00	0.13	9,439.09	2,042.89	299.93	2,043.56	0.00	0.00	0.00
11,800.00	90.00	0.13	9,439.08	2,142.89	300.16	2,143.56	0.00	0.00	0.00
11,900.00	90.00	0.13	9,439.08	2,242.89	300.40	2,243.56	0.00	0.00	0.00
12,000.00	90.00	0.13	9,439.07	2,342.89	300.63	2,343.56	0.00	0.00	0.00
12,100.00	90.00	0.13	9,439.06	2,442.89	300.87	2,443.56	0.00	0.00	0.00
12,200.00	90.00	0.13	9,439.05	2,542.89	301.10	2,543.56	0.00	0.00	0.00
12,300.00	90.00	0.13	9,439.05	2,642.89	301.33	2,643.56	0.00	0.00	0.00
12,400.00	90.00	0.13	9,439.04	2,742.89	301.57	2,743.56	0.00	0.00	0.00
12,500.00	90.00	0.13	9,439.03	2,842.89	301.80	2,843.56	0.00	0.00	0.00
12,600.00	90.00	0.13	9,439.02	2,942.89	302.04	2,943.56	0.00	0.00	0.00
12,700.00	90.00	0.13	9,439.01	3,042.89	302.27	3,043.56	0.00	0.00	0.00
12,800.00	90.00	0.13	9,439.01	3,142.89	302.50	3,143.56	0.00	0.00	0.00
12,869.44	90.00	0.13	9,439.00	3,212.32	302.67	3,213.00	0.00	0.00	0.00
Begin 2.00°/100' Build									
12,895.34	90.52	0.13	9,438.88	3,238.22	302.73	3,238.90	2.00	2.00	0.00
Hold 90.52° Inc									



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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)
4,900.00	9.55	146.67	4,867.83	-389.09	255.91	-388.51	0.00	0.00	0.00
4,999.65	9.55	146.67	4,966.09	-402.91	265.00	-402.30	0.00	0.00	0.00
Begin 1.50°/100' Drop									
5,100.00	8.05	146.67	5,065.26	-415.73	273.44	-415.11	1.50	-1.50	0.00
5,200.00	6.55	146.67	5,164.45	-426.34	280.42	-425.71	1.50	-1.50	0.00
5,300.00	5.05	146.67	5,263.93	-434.78	285.97	-434.13	1.50	-1.50	0.00
5,400.00	3.55	146.67	5,363.65	-441.04	290.08	-440.39	1.50	-1.50	0.00
5,500.00	2.05	146.67	5,463.53	-445.12	292.77	-444.46	1.50	-1.50	0.00
5,600.00	0.55	146.67	5,563.50	-447.01	294.01	-446.35	1.50	-1.50	0.00
5,636.50	0.00	0.00	5,600.00	-447.16	294.11	-446.49	1.50	-1.50	-401.80
Begin Vertical Hold									
5,700.00	0.00	0.00	5,663.50	-447.16	294.11	-446.49	0.00	0.00	0.00
5,800.00	0.00	0.00	5,763.50	-447.16	294.11	-446.49	0.00	0.00	0.00
5,900.00	0.00	0.00	5,863.50	-447.16	294.11	-446.49	0.00	0.00	0.00
6,000.00	0.00	0.00	5,963.50	-447.16	294.11	-446.49	0.00	0.00	0.00
6,100.00	0.00	0.00	6,063.50	-447.16	294.11	-446.49	0.00	0.00	0.00
6,200.00	0.00	0.00	6,163.50	-447.16	294.11	-446.49	0.00	0.00	0.00
6,300.00	0.00	0.00	6,263.50	-447.16	294.11	-446.49	0.00	0.00	0.00
6,400.00	0.00	0.00	6,363.50	-447.16	294.11	-446.49	0.00	0.00	0.00
6,500.00	0.00	0.00	6,463.50	-447.16	294.11	-446.49	0.00	0.00	0.00
6,600.00	0.00	0.00	6,563.50	-447.16	294.11	-446.49	0.00	0.00	0.00
6,700.00	0.00	0.00	6,663.50	-447.16	294.11	-446.49	0.00	0.00	0.00
6,800.00	0.00	0.00	6,763.50	-447.16	294.11	-446.49	0.00	0.00	0.00
6,900.00	0.00	0.00	6,863.50	-447.16	294.11	-446.49	0.00	0.00	0.00
7,000.00	0.00	0.00	6,963.50	-447.16	294.11	-446.49	0.00	0.00	0.00
7,100.00	0.00	0.00	7,063.50	-447.16	294.11	-446.49	0.00	0.00	0.00
7,200.00	0.00	0.00	7,163.50	-447.16	294.11	-446.49	0.00	0.00	0.00
7,300.00	0.00	0.00	7,263.50	-447.16	294.11	-446.49	0.00	0.00	0.00
7,400.00	0.00	0.00	7,363.50	-447.16	294.11	-446.49	0.00	0.00	0.00
7,500.00	0.00	0.00	7,463.50	-447.16	294.11	-446.49	0.00	0.00	0.00
7,600.00	0.00	0.00	7,563.50	-447.16	294.11	-446.49	0.00	0.00	0.00
7,700.00	0.00	0.00	7,663.50	-447.16	294.11	-446.49	0.00	0.00	0.00
7,800.00	0.00	0.00	7,763.50	-447.16	294.11	-446.49	0.00	0.00	0.00
7,900.00	0.00	0.00	7,863.50	-447.16	294.11	-446.49	0.00	0.00	0.00
8,000.00	0.00	0.00	7,963.50	-447.16	294.11	-446.49	0.00	0.00	0.00
8,100.00	0.00	0.00	8,063.50	-447.16	294.11	-446.49	0.00	0.00	0.00
8,200.00	0.00	0.00	8,163.50	-447.16	294.11	-446.49	0.00	0.00	0.00
8,300.00	0.00	0.00	8,263.50	-447.16	294.11	-446.49	0.00	0.00	0.00
8,400.00	0.00	0.00	8,363.50	-447.16	294.11	-446.49	0.00	0.00	0.00
8,500.00	0.00	0.00	8,463.50	-447.16	294.11	-446.49	0.00	0.00	0.00
8,600.00	0.00	0.00	8,563.50	-447.16	294.11	-446.49	0.00	0.00	0.00
8,700.00	0.00	0.00	8,663.50	-447.16	294.11	-446.49	0.00	0.00	0.00
8,800.00	0.00	0.00	8,763.50	-447.16	294.11	-446.49	0.00	0.00	0.00
8,882.50	0.00	0.00	8,846.00	-447.16	294.11	-446.49	0.00	0.00	0.00
Begin 10.00°/100' Build									
8,900.00	1.75	0.13	8,863.50	-446.89	294.11	-446.22	10.00	10.00	0.00
8,950.00	6.75	0.13	8,913.34	-443.19	294.12	-442.52	10.00	10.00	0.00
9,000.00	11.75	0.13	8,962.68	-435.15	294.13	-434.49	10.00	10.00	0.00
9,050.00	16.75	0.13	9,011.12	-422.85	294.16	-422.18	10.00	10.00	0.00
9,100.00	21.75	0.13	9,058.31	-406.37	294.20	-405.70	10.00	10.00	0.00
9,150.00	26.75	0.13	9,103.89	-385.84	294.25	-385.17	10.00	10.00	0.00
9,200.00	31.75	0.13	9,147.50	-361.42	294.31	-360.75	10.00	10.00	0.00
9,250.00	36.75	0.13	9,188.81	-333.29	294.37	-332.62	10.00	10.00	0.00



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Site: Jim Tom Lontos 30-23S-28E RB
Well: #206H
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well #206H
TVD Reference: WELL @ 3149.00usft (Patterson 810)
MD Reference: WELL @ 3149.00usft (Patterson 810)
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)
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
KOP, 1.00°/100' Build									
1,100.00	1.00	146.67	1,099.99	-0.73	0.48	-0.73	1.00	1.00	0.00
1,200.00	2.00	146.67	1,199.96	-2.92	1.92	-2.91	1.00	1.00	0.00
1,300.00	3.00	146.67	1,299.86	-6.56	4.31	-6.55	1.00	1.00	0.00
1,400.00	4.00	146.67	1,399.68	-11.66	7.67	-11.64	1.00	1.00	0.00
1,500.00	5.00	146.67	1,499.37	-18.22	11.98	-18.19	1.00	1.00	0.00
Begin 5.00° Tangent									
1,600.00	5.00	146.67	1,598.99	-25.50	16.77	-25.46	0.00	0.00	0.00
1,700.00	5.00	146.67	1,698.60	-32.78	21.56	-32.73	0.00	0.00	0.00
1,800.00	5.00	146.67	1,798.22	-40.06	26.35	-40.00	0.00	0.00	0.00
1,900.00	5.00	146.67	1,897.84	-47.34	31.14	-47.27	0.00	0.00	0.00
2,000.00	5.00	146.67	1,997.46	-54.62	35.93	-54.54	0.00	0.00	0.00
2,100.00	5.00	146.67	2,097.08	-61.91	40.72	-61.81	0.00	0.00	0.00
2,200.00	5.00	146.67	2,196.70	-69.19	45.51	-69.08	0.00	0.00	0.00
2,300.00	5.00	146.67	2,296.32	-76.47	50.30	-76.36	0.00	0.00	0.00
2,400.00	5.00	146.67	2,395.94	-83.75	55.08	-83.63	0.00	0.00	0.00
2,500.00	5.00	146.67	2,495.56	-91.03	59.87	-90.90	0.00	0.00	0.00
2,600.00	5.00	146.67	2,595.18	-98.31	64.66	-98.17	0.00	0.00	0.00
2,700.00	5.00	146.67	2,694.80	-105.60	69.45	-105.44	0.00	0.00	0.00
2,800.00	5.00	146.67	2,794.42	-112.88	74.24	-112.71	0.00	0.00	0.00
Begin 1.00°/100' Build									
2,900.00	6.00	146.67	2,893.96	-120.89	79.51	-120.71	1.00	1.00	0.00
3,000.00	7.00	146.67	2,993.31	-130.34	85.73	-130.15	1.00	1.00	0.00
3,100.00	8.00	146.67	3,092.46	-141.25	92.90	-141.04	1.00	1.00	0.00
3,200.00	9.00	146.67	3,191.36	-153.60	101.02	-153.37	1.00	1.00	0.00
3,255.28	9.55	146.67	3,245.91	-161.04	105.92	-160.80	1.00	1.00	0.00
Begin 9.55° Tangent									
3,300.00	9.55	146.67	3,290.01	-167.24	110.00	-166.99	0.00	0.00	0.00
3,400.00	9.55	146.67	3,388.63	-181.11	119.12	-180.84	0.00	0.00	0.00
3,500.00	9.55	146.67	3,487.24	-194.97	128.24	-194.68	0.00	0.00	0.00
3,600.00	9.55	146.67	3,585.85	-208.84	137.36	-208.53	0.00	0.00	0.00
3,700.00	9.55	146.67	3,684.47	-222.71	146.48	-222.37	0.00	0.00	0.00
3,800.00	9.55	146.67	3,783.08	-236.57	155.60	-236.22	0.00	0.00	0.00
3,900.00	9.55	146.67	3,881.69	-250.44	164.72	-250.06	0.00	0.00	0.00
4,000.00	9.55	146.67	3,980.31	-264.30	173.84	-263.91	0.00	0.00	0.00
4,100.00	9.55	146.67	4,078.92	-278.17	182.96	-277.75	0.00	0.00	0.00
4,200.00	9.55	146.67	4,177.53	-292.03	192.08	-291.60	0.00	0.00	0.00
4,300.00	9.55	146.67	4,276.15	-305.90	201.19	-305.44	0.00	0.00	0.00
4,400.00	9.55	146.67	4,374.76	-319.76	210.31	-319.28	0.00	0.00	0.00
4,500.00	9.55	146.67	4,473.37	-333.63	219.43	-333.13	0.00	0.00	0.00
4,600.00	9.55	146.67	4,571.99	-347.49	228.55	-346.97	0.00	0.00	0.00
4,700.00	9.55	146.67	4,670.60	-361.36	237.67	-360.82	0.00	0.00	0.00
4,800.00	9.55	146.67	4,769.21	-375.22	246.79	-374.66	0.00	0.00	0.00



MS Energy Services

Planning Report



Database: EDM Conroe
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Project: Eddy County, New Mexico (NAD 27)
Site: Jim Tom Lontos 30-23S-28E RB
Well: #206H
Wellbore: Wellbore #1
Design: Design #1

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MD Reference: WELL @ 3149.00usft (Patterson 810)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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	
1,500.00	5.00	146.67	1,499.37	-18.22	11.98	1.00	1.00	0.00	146.67	VP - Jim Tom Lonto
2,800.00	5.00	146.67	2,794.42	-112.88	74.24	0.00	0.00	0.00	0.00	
3,255.28	9.55	146.67	3,245.91	-161.04	105.92	1.00	1.00	0.00	0.00	
4,999.65	9.55	146.67	4,966.09	-402.91	265.00	0.00	0.00	0.00	0.00	
5,636.50	0.00	0.00	5,600.00	-447.16	294.11	1.50	-1.50	0.00	180.00	VP - Jim Tom Lonto
8,882.50	0.00	0.00	8,846.00	-447.16	294.11	0.00	0.00	0.00	0.00	
9,682.50	80.00	0.13	9,410.25	26.30	295.21	10.00	10.00	0.00	0.13	PBHL - Jim Tom Lo
9,840.91	89.50	0.13	9,424.73	183.87	295.58	6.00	6.00	0.00	0.00	
11,492.44	89.50	0.13	9,439.00	1,835.33	299.44	0.00	0.00	0.00	0.00	1836' VS - Jim Tom
11,517.42	90.00	0.13	9,439.11	1,860.31	299.50	2.00	2.00	0.00	0.00	3213' VS - Jim Tom
12,869.44	90.00	0.13	9,439.00	3,212.32	302.67	0.00	0.00	0.00	0.00	
12,895.34	90.52	0.13	9,438.88	3,238.22	302.73	2.00	2.00	0.00	0.00	
14,498.42	90.52	0.13	9,424.26	4,841.23	306.48	0.00	0.00	0.00	0.00	PBHL - Jim Tom Lo



MS Energy Services
Planning Report



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Survey Calculation Method: Minimum Curvature

Project	Eddy County, New Mexico (NAD 27)		
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		

Well	#206H					
Well Position	+N/-S	461,743.51 usft	Northing:	461,743.51 usft	Latitude:	32° 16' 9.421 N
	+E/-W	563,315.24 usft	Easting:	563,315.24 usft	Longitude:	104° 7' 42.551 W
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	3,120.00 usft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2017	6/12/2017	7.28	59.99	47,973.44

Design Design #1

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	0.13

Plan Survey Tool Program **Date** 5/26/2017

Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	14,498.42 Design #1 (Wellbore #1)	MWD	
			OWSG MWD - Standard	