



Company: Matador Resources
Well: Leslie Fed Com #215H
County: Lea County, New Mexico (NAD 27)
Rig: Patterson 282
Wellbore: Wellbore #1
Design: Design #1
Created By: SRA
Date: 10:15, April 08 2019

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

To convert a Magnetic Direction to a Grid Direction, Add 6.264°
To convert a Magnetic Direction to a True Direction, Add 6.764° East
To convert a True Direction to a Grid Direction, Subtract 0.500°

SURVEY PROGRAM

Depth From	Depth To	Survey/Plan	Tool
0.00	17405.77	Design #1 (Wellbore #1)	MWD



Azimuths to Grid North
True North: -0.50°
Magnetic North: 6.26°
Magnetic Field
Strength: 47752.4nT
Dip Angle: 59.33°
Date: 3/1/2019
Model: USER DEFINED

WELL DETAILS: Leslie Fed Com #215H

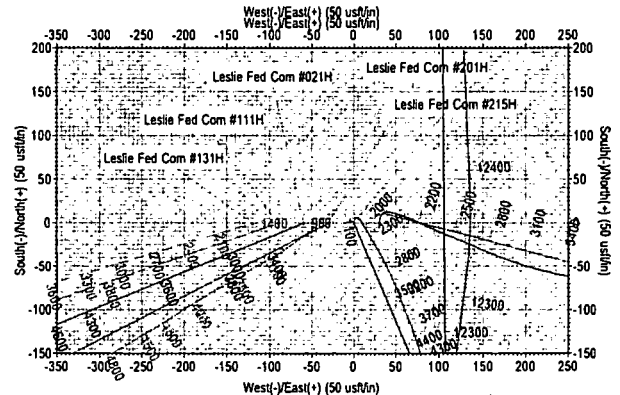
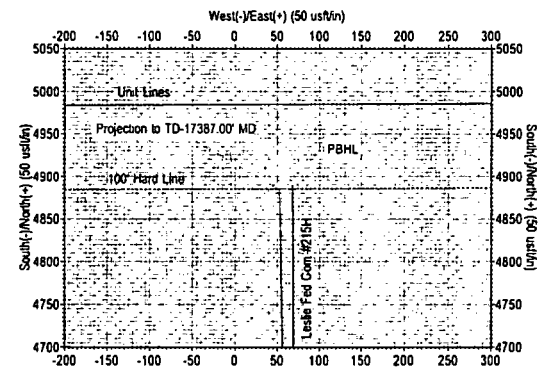
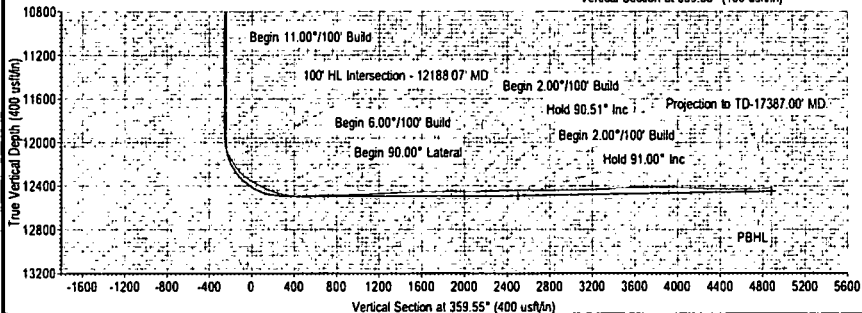
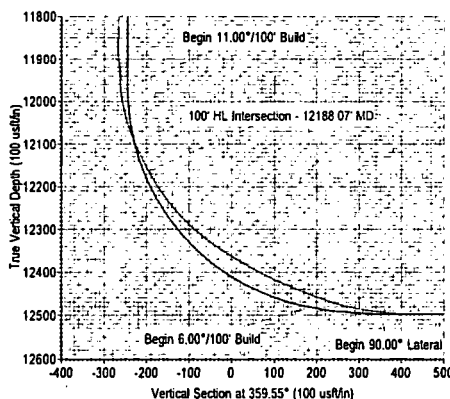
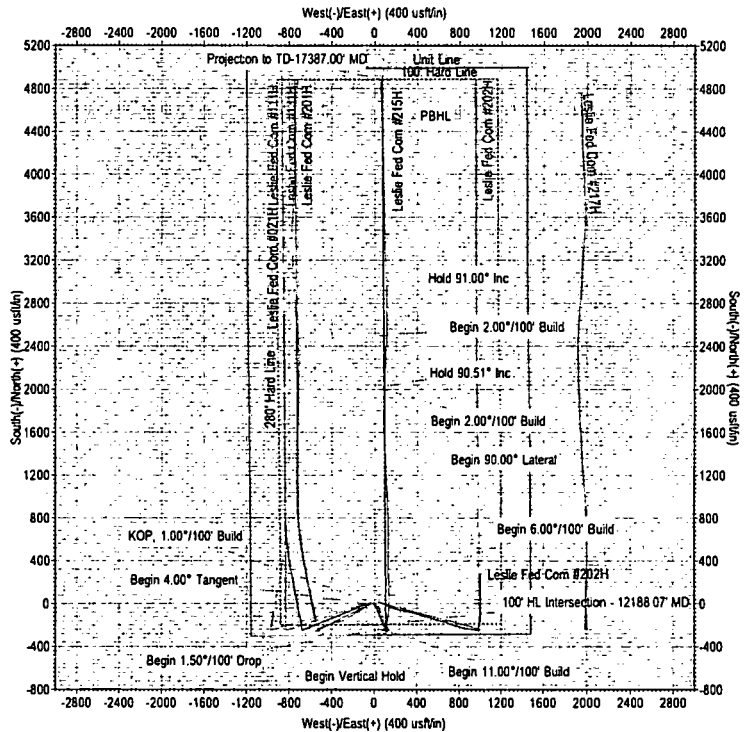
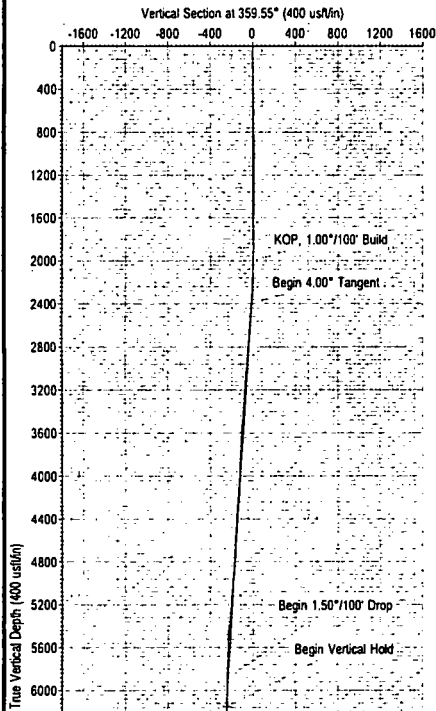
GL @ 3313.00	WELL @ 3341.50usft (Patterson 282)	Latitude	Longitude
Northing	Easting	32° 7' 25.778 N	103° 23' 37.944 W
410038.70	790841.22		

DESIGN TARGET DETAILS

Name	TVD	+N-S	+E-W	Northing	Easting	Latitude	Longitude
VP - Leslie Fed Com #215H	6150.00	-244.13	108.02	409794.57	790949.24	32° 7' 23.353 N	103° 23' 36.713 W
2000' VS - Leslie Fed Com #215H+2496.64	2000.77	90.41	412039.47	790931.63	32° 7' 45.568 N	103° 23' 36.690 W	
2000' VS - Leslie Fed Com #215H+2496.64	2000.77	90.41	412039.47	790931.63	32° 7' 45.568 N	103° 23' 36.690 W	
2500' VS - Leslie Fed Com #215H+2492.27	2500.76	86.48	412539.46	790927.70	32° 7' 50.516 N	103° 23' 36.685 W	
PBHL - Leslie Fed Com #215H	12450.65	4885.19	67.78	414923.89	790909.00	32° 8' 14.112 N	103° 23' 36.661 W

SECTION DETAILS

MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	Vsect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.000	0.00	KOP, 1.00°/100' Build
2400.13	4.00	156.13	2399.80	-12.77	5.65	1.00	156.133	-12.82	Begin 4.00° Tangent
5892.30	4.00	156.13	5883.46	-235.61	104.25	0.00	0.000	-236.43	Begin 1.50°/100' Drop
6159.05	0.00	0.00	6150.00	-244.13	108.02	1.50	180.000	-244.97	Begin Vertical Hold
11978.22	0.00	0.00	11969.17	-244.13	108.02	0.00	0.000	-244.97	Begin 11.00°/100' Build
12705.50	80.00	359.55	12482.13	186.28	104.64	11.00	359.551	185.45	Begin 6.00°/100' Build
12872.16	90.00	359.55	12496.64	352.10	103.34	6.00	0.000	351.27	Begin 90.00° Lateral
14520.89	90.00	359.55	12496.64	2000.77	90.41	0.00	0.000	2000.00	Begin 2.00°/100' Build
14546.55	90.51	359.55	12496.52	2026.43	90.21	2.00	0.000	2025.66	Hold 90.51° Inc
15020.91	90.51	359.55	12492.27	2500.76	86.48	0.00	0.000	2500.00	Begin 2.00°/100' Build
15045.37	91.00	359.55	12491.95	2525.22	86.29	2.00	0.000	2524.46	Hold 91.00° Inc
17405.77	91.00	359.55	12450.65	4885.19	67.78	0.00	0.000	4884.50	PBHL





Matador Resources

Lea County, New Mexico (NAD 27)

Leslie Fed Com

Leslie Fed Com #215H

Wellbore #1

Design: Surveys

Standard Survey Report

08 April, 2019





MS Directional Survey Report



Company: Matador Resources
Project: Lea County, New Mexico (NAD 27)
Site: Leslie Fed Com
Well: Leslie Fed Com #215H
Wellbore: Wellbore #1
Design: Surveys

Local Co-ordinate Reference: Well Leslie Fed Com #215H
TVD Reference: WELL @ 3341.50usft (Patterson 282)
MD Reference: WELL @ 3341.50usft (Patterson 282)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Conroe DB

Project	Lea 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		

Site	Leslie Fed Com		
Site Position:		Northing:	410,038.60 usft
From:	Map	Easting:	790,811.21 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 7' 25.779 N
		Longitude:	103° 23' 38.293 W

Well	Leslie Fed Com #215H		
Well Position	+N/-S	0.00 usft	Northing: 410,038.70 usft
	+E/-W	0.00 usft	Easting: 790,841.22 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
Grid Convergence:	0.500 °	Ground Level:	3,313.00 usft
		Latitude:	32° 7' 25.778 N
		Longitude:	103° 23' 37.944 W

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination (°)
	User Defined	3/1/2019	6.764
			Dip Angle (°) 59.927
			Field Strength (nT) 47,752.35

Design	Surveys		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.00	0.00	0.00
			Direction (°) 359.55
			Tie On Depth: 0.00

Survey Program	Date 4/8/2019		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
199.00	17,387.00	MS MWD (Wellbore #1)	MWD
			Description OWSG MWD - Standard

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
199.00	0.40	12.50	199.00	0.68	0.15	0.68	0.20	0.20	0.00
317.00	0.60	1.70	316.99	1.70	0.26	1.70	0.19	0.17	-9.15
504.00	0.30	12.20	503.99	3.16	0.39	3.15	0.17	-0.16	5.61
687.00	0.40	21.50	686.98	4.22	0.73	4.21	0.06	0.05	5.08
779.00	0.30	43.90	778.98	4.69	1.01	4.68	0.18	-0.11	24.35
892.00	0.60	20.70	891.98	5.46	1.42	5.45	0.31	0.27	-20.53
1,059.00	0.20	55.40	1,058.98	6.44	1.97	6.42	0.27	-0.24	20.78
1,247.00	0.40	124.50	1,246.97	6.25	2.78	6.23	0.20	0.11	36.76
1,437.00	0.10	112.90	1,436.97	5.81	3.48	5.79	0.16	-0.16	-6.11



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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)
1,625.00	0.30	117.80	1,624.97	5.52	4.07	5.49	0.11	0.11	2.61
1,814.00	0.50	116.90	1,813.96	4.92	5.24	4.88	0.11	0.11	-0.48
2,002.00	1.40	135.10	2,001.94	2.92	7.60	2.86	0.50	0.48	9.68
2,191.00	4.40	147.90	2,190.68	-4.86	13.08	-4.96	1.61	1.59	6.77
2,380.00	4.50	150.00	2,379.11	-17.42	20.64	-17.58	0.10	0.05	1.11
2,568.00	4.20	146.60	2,566.56	-29.56	28.12	-29.78	0.21	-0.16	-1.81
2,756.00	5.20	154.90	2,753.93	-43.02	35.52	-43.30	0.64	0.53	4.41
2,943.00	5.00	151.70	2,940.19	-57.87	42.98	-58.20	0.19	-0.11	-1.71
3,132.00	4.90	157.00	3,128.49	-72.55	50.04	-72.94	0.25	-0.05	2.80
3,320.00	4.80	159.50	3,315.81	-87.31	55.93	-87.75	0.12	-0.05	1.33
3,509.00	4.10	159.10	3,504.24	-101.03	61.11	-101.51	0.37	-0.37	-0.21
3,698.00	3.40	153.90	3,692.84	-112.37	65.99	-112.89	0.41	-0.37	-2.75
3,888.00	3.70	161.10	3,882.47	-123.23	70.45	-123.78	0.28	0.16	3.79
4,076.00	3.80	162.80	4,070.07	-134.92	74.26	-135.50	0.08	0.05	0.90
4,264.00	3.40	160.90	4,257.70	-146.14	77.92	-146.75	0.22	-0.21	-1.01
4,452.00	3.80	159.50	4,445.33	-157.25	81.93	-157.88	0.22	0.21	-0.74
4,641.00	4.20	148.80	4,633.87	-169.03	87.71	-169.72	0.45	0.21	-5.66
4,830.00	4.30	145.70	4,822.35	-180.81	95.29	-181.55	0.13	0.05	-1.64
5,018.00	5.60	153.70	5,009.65	-194.85	103.32	-195.66	0.78	0.69	4.26
5,207.00	5.20	149.30	5,197.81	-210.48	111.78	-211.35	0.30	-0.21	-2.33
5,374.00	4.70	149.40	5,364.19	-222.88	119.13	-223.81	0.30	-0.30	0.06
5,486.00	4.40	152.20	5,475.83	-230.63	123.47	-231.59	0.33	-0.27	2.50
5,675.00	2.10	224.40	5,664.58	-239.52	124.43	-240.49	2.25	-1.22	38.20
5,865.00	2.20	240.30	5,854.45	-243.81	118.82	-244.74	0.32	0.05	8.37
6,053.00	1.90	241.30	6,042.33	-247.10	112.95	-247.98	0.16	-0.16	0.53
6,241.00	1.80	229.40	6,230.23	-250.52	107.98	-251.36	0.21	-0.05	-6.33
6,429.00	1.00	123.40	6,418.19	-253.34	107.11	-254.18	1.22	-0.43	-56.38
6,617.00	0.90	251.20	6,606.18	-254.72	107.08	-255.55	0.91	-0.05	67.98
6,806.00	1.50	25.30	6,795.16	-252.96	106.73	-253.79	1.18	0.32	70.95
6,995.00	1.20	191.50	6,984.14	-252.67	107.39	-253.50	1.42	-0.16	87.94
7,184.00	0.70	184.60	7,173.12	-255.76	106.91	-256.59	0.27	-0.26	-3.65
7,372.00	0.70	204.80	7,361.10	-257.94	106.33	-258.77	0.13	0.00	10.74
7,560.00	0.50	230.00	7,549.09	-259.51	105.22	-260.33	0.17	-0.11	13.40
7,748.00	0.80	188.80	7,737.08	-261.34	104.39	-262.15	0.29	0.16	-21.91
7,937.00	0.70	214.00	7,926.07	-263.60	103.55	-264.40	0.18	-0.05	13.33
8,124.00	0.30	166.70	8,113.06	-265.02	103.02	-265.82	0.29	-0.21	-25.29
8,313.00	0.90	159.20	8,302.05	-266.89	103.66	-267.70	0.32	0.32	-3.97
8,501.00	1.40	24.40	8,490.03	-266.18	105.13	-267.00	1.13	0.27	-71.70
8,690.00	1.50	52.80	8,678.97	-262.58	108.06	-263.42	0.38	0.05	15.03
8,878.00	1.40	63.90	8,866.91	-260.08	112.08	-260.96	0.16	-0.05	5.90
9,065.00	1.80	47.70	9,053.84	-257.10	116.30	-258.01	0.32	0.21	-8.66
9,254.00	0.50	65.80	9,242.80	-254.77	119.25	-255.69	0.71	-0.69	9.58
9,441.00	0.60	136.30	9,429.79	-255.14	120.67	-256.08	0.34	0.05	37.70



MS Directional Survey Report



Company: Matador Resources
Project: Lea County, New Mexico (NAD 27)
Site: Leslie Fed Com
Well: Leslie Fed Com #215H
Wellbore: Wellbore #1
Design: Surveys

Local Co-ordinate Reference: Well Leslie Fed Com #215H
TVD Reference: WELL @ 3341.50usft (Patterson 282)
MD Reference: WELL @ 3341.50usft (Patterson 282)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Conroe DB

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)
9,630.00	0.80	117.40	9,618.78	-256.46	122.53	-257.42	0.16	0.11	-10.00
9,817.00	1.50	218.80	9,805.75	-258.97	122.15	-259.92	0.98	0.37	54.22
10,005.00	0.10	36.10	9,993.73	-260.76	120.71	-261.70	0.85	-0.74	94.31
10,194.00	1.10	337.30	10,182.72	-258.95	120.10	-259.88	0.56	0.53	-31.11
10,383.00	1.80	131.20	10,371.69	-259.23	121.64	-260.18	1.50	0.37	81.43
10,571.00	1.10	265.50	10,559.66	-261.32	122.06	-262.27	1.43	-0.37	71.44
10,760.00	1.60	253.20	10,748.61	-262.22	117.73	-263.14	0.30	0.26	-6.51
10,948.00	1.50	260.80	10,936.54	-263.37	112.78	-264.25	0.12	-0.05	4.04
11,137.00	2.50	279.50	11,125.43	-263.09	106.28	-263.92	0.63	0.53	9.89
11,325.00	1.90	100.30	11,313.38	-262.97	105.30	-263.79	2.34	-0.32	-95.32
11,513.00	1.40	328.50	11,501.34	-261.57	107.17	-262.40	1.61	-0.27	-70.11
11,706.00	1.50	205.80	11,694.31	-261.83	104.83	-262.65	1.32	0.05	-63.58
11,800.00	1.20	201.90	11,788.29	-263.85	103.93	-264.66	0.33	-0.32	-4.15
11,894.00	0.90	209.00	11,882.27	-265.41	103.21	-266.21	0.35	-0.32	7.55
11,988.00	7.50	10.90	11,976.03	-260.02	104.01	-260.83	8.89	7.02	172.23
12,035.00	13.10	2.60	12,022.26	-251.68	104.83	-252.50	12.30	11.91	-17.66
12,083.00	19.10	3.00	12,068.35	-238.40	105.49	-239.22	12.50	12.50	0.83
12,130.00	25.80	4.40	12,111.77	-220.50	106.68	-221.33	14.30	14.26	2.98
12,177.00	28.50	12.50	12,153.60	-199.34	109.89	-200.20	9.73	5.74	17.23
12,188.07	29.54	12.50	12,163.28	-194.10	111.05	-194.97	9.36	9.36	0.00
100' HL Intersection - 12188.07' MD									
12,224.00	32.90	12.50	12,194.00	-175.92	115.08	-176.82	9.36	9.36	0.00
12,272.00	37.90	9.30	12,233.12	-148.63	120.29	-149.57	11.11	10.42	-6.67
12,319.00	43.10	6.30	12,268.85	-118.40	124.39	-119.37	11.81	11.06	-6.38
12,366.00	49.80	6.90	12,301.21	-84.58	128.31	-85.58	14.29	14.26	1.28
12,413.00	54.80	6.80	12,329.94	-47.67	132.75	-48.71	10.64	10.64	-0.21
12,460.00	57.60	1.30	12,356.10	-8.73	135.47	-9.80	11.40	5.96	-11.70
12,507.00	59.90	357.50	12,380.49	31.43	135.04	30.37	8.47	4.89	-8.09
12,553.00	62.20	358.10	12,402.75	71.65	133.49	70.60	5.13	5.00	1.30
12,600.00	66.50	358.30	12,423.09	113.99	132.16	112.95	9.16	9.15	0.43
12,647.00	68.60	357.60	12,441.04	157.39	130.61	156.36	4.68	4.47	-1.49
12,694.00	69.80	356.10	12,457.73	201.26	128.19	200.25	3.93	2.55	-3.19
12,742.00	73.20	355.40	12,472.96	246.65	124.82	245.66	7.22	7.08	-1.46
12,789.00	79.40	356.80	12,484.09	292.18	121.72	291.22	13.50	13.19	2.98
12,893.00	86.80	0.50	12,496.58	395.31	119.31	394.36	7.94	7.12	3.56
12,988.00	91.00	0.90	12,498.40	490.27	120.47	489.30	4.44	4.42	0.42
13,082.00	92.90	2.00	12,495.20	584.18	122.85	583.19	2.34	2.02	1.17
13,176.00	90.70	358.10	12,492.25	678.11	122.93	677.12	4.76	-2.34	-4.15
13,271.00	89.10	357.20	12,492.41	773.02	119.04	772.06	1.93	-1.68	-0.95
13,365.00	91.50	358.30	12,491.92	866.94	115.35	866.01	2.81	2.55	1.17
13,459.00	92.40	358.30	12,488.72	960.84	112.56	959.93	0.96	0.96	0.00
13,553.00	92.70	357.40	12,484.54	1,054.68	109.04	1,053.79	1.01	0.32	-0.96
13,648.00	94.90	357.90	12,478.25	1,149.39	105.15	1,148.53	2.37	2.32	0.53



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13,742.00	92.20	357.60	12,472.43	1,243.13	101.47	1,242.29	2.89	-2.87	-0.32
13,836.00	91.80	357.60	12,469.14	1,336.99	97.53	1,336.18	0.43	-0.43	0.00
13,930.00	92.60	356.90	12,465.54	1,430.81	93.03	1,430.03	1.13	0.85	-0.74
14,024.00	93.40	356.60	12,460.62	1,524.53	87.70	1,523.79	0.91	0.85	-0.32
14,118.00	89.60	358.30	12,458.16	1,618.38	83.53	1,617.67	4.43	-4.04	1.81
14,212.00	89.40	359.50	12,458.98	1,712.36	81.72	1,711.66	1.29	-0.21	1.28
14,307.00	91.10	1.10	12,458.56	1,807.35	82.22	1,806.65	2.46	1.79	1.68
14,401.00	91.80	0.60	12,456.18	1,901.31	83.61	1,900.59	0.92	0.74	-0.53
14,495.00	87.20	1.50	12,457.00	1,995.26	85.33	1,994.53	4.99	-4.89	0.96
14,589.00	91.20	3.40	12,458.32	2,089.14	89.35	2,088.38	4.71	4.26	2.02
14,683.00	93.60	5.20	12,454.38	2,182.79	96.39	2,181.96	3.19	2.55	1.91
14,778.00	90.70	1.10	12,450.81	2,277.55	101.60	2,276.68	5.28	-3.05	-4.32
14,872.00	92.90	2.80	12,447.86	2,371.44	104.80	2,370.54	2.96	2.34	1.81
14,966.00	90.10	1.30	12,445.40	2,465.33	108.16	2,464.41	3.38	-2.98	-1.60
15,060.00	89.90	1.30	12,445.40	2,559.31	110.29	2,558.36	0.21	-0.21	0.00
15,155.00	90.50	358.90	12,445.07	2,654.30	110.46	2,653.35	2.60	0.63	-2.53
15,249.00	90.90	359.10	12,443.92	2,748.28	108.82	2,747.34	0.48	0.43	0.21
15,343.00	91.20	359.40	12,442.20	2,842.25	107.59	2,841.32	0.45	0.32	0.32
15,438.00	90.60	358.90	12,440.71	2,937.23	106.18	2,936.31	0.82	-0.63	-0.53
15,532.00	90.80	358.60	12,439.56	3,031.20	104.13	3,030.29	0.38	0.21	-0.32
15,626.00	90.40	359.00	12,438.57	3,125.18	102.16	3,124.28	0.60	-0.43	0.43
15,720.00	93.00	357.40	12,435.79	3,219.08	99.21	3,218.20	3.25	2.77	-1.70
15,814.00	93.40	359.00	12,430.54	3,312.88	96.26	3,312.02	1.75	0.43	1.70
15,908.00	93.10	358.90	12,425.21	3,406.71	94.54	3,405.87	0.34	-0.32	-0.11
16,003.00	93.90	358.90	12,419.41	3,501.52	92.72	3,500.68	0.84	0.84	0.00
16,097.00	91.60	358.60	12,414.90	3,595.38	90.67	3,594.56	2.47	-2.45	-0.32
16,191.00	90.00	358.90	12,413.59	3,689.35	88.62	3,688.54	1.73	-1.70	0.32
16,285.00	91.10	358.30	12,412.68	3,783.31	86.33	3,782.52	1.33	1.17	-0.64
16,379.00	88.40	358.70	12,413.09	3,877.27	83.86	3,876.49	2.90	-2.87	0.43
16,474.00	88.30	358.00	12,415.83	3,972.19	81.13	3,971.43	0.74	-0.11	-0.74
16,568.00	88.90	358.60	12,418.13	4,066.12	78.34	4,065.38	0.90	0.64	0.64
16,662.00	86.70	356.80	12,421.74	4,159.97	74.57	4,159.25	3.02	-2.34	-1.91
16,756.00	89.10	358.30	12,425.18	4,253.81	70.56	4,253.12	3.01	2.55	1.60
16,850.00	89.90	358.10	12,426.00	4,347.76	67.61	4,347.09	0.88	0.85	-0.21
16,945.00	89.40	358.10	12,426.58	4,442.70	64.46	4,442.06	0.53	-0.53	0.00
17,039.00	89.60	358.10	12,427.40	4,536.65	61.34	4,536.03	0.21	0.21	0.00
17,133.00	90.50	357.90	12,427.32	4,630.59	58.06	4,629.99	0.98	0.96	-0.21
17,227.00	91.60	358.80	12,425.60	4,724.53	55.36	4,723.95	1.51	1.17	0.96
17,322.00	92.00	358.90	12,422.61	4,819.47	53.45	4,818.90	0.43	0.42	0.11
17,328.00	91.90	358.90	12,422.41	4,825.46	53.33	4,824.89	1.67	-1.67	0.00
17,387.00	91.90	358.90	12,420.45	4,884.42	52.20	4,883.86	0.00	0.00	0.00

Projection to TD-17387.00' MD



MS Directional
Survey Report



Company: Matador Resources
Project: Lea County, New Mexico (NAD 27)
Site: Leslie Fed Com
Well: Leslie Fed Com #215H
Wellbore: Wellbore #1
Design: Surveys

Local Co-ordinate Reference: Well Leslie Fed Com #215H
TVD Reference: WELL @ 3341.50usft (Patterson 282)
MD Reference: WELL @ 3341.50usft (Patterson 282)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Conroe DB

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
12,188.07	12,163.28	-194.10	111.05	100' HL Intersection - 12188.07' MD
17,387.00	12,420.45	4,884.42	52.20	Projection to TD-17387.00' MD