

Devon Energy

Eddy County, New Mexico (NAD 83)

Lusitano 27-34 FED COM

626H

OH

Design: OH

Standard Survey Report

24 July, 2018

RECEIVED

JUL 25 2018

DISTRICT II-ARTESIA O.C.D.

30-015-44428

Survey Report

Company: Devon Energy
Project: Eddy County, New Mexico (NAD 83)
Site: Lusitano 27-34 FED COM
Well: 626H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well 626H
TVD Reference: GL 3336' + 26' KB @ 3362.00usft (ICD 217)
MD Reference: GL 3336' + 26' KB @ 3362.00usft (ICD 217)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14 Single User Db

Project	Eddy County, New Mexico (NAD 83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		Lusitano 27-34 FED COM			
Site Position:		Northing:	403,270.15 usft	Latitude:	32.107364
From:	Map	Easting:	719,382.96 usft	Longitude:	-103.758304
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.31 °

Well	626H					
Well Position	+N/-S	0.00 usft	Northing:	403,469.53 usft	Latitude:	32.107913
	+E/-W	0.00 usft	Easting:	719,293.08 usft	Longitude:	-103.758591
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,336.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	1/31/2018	6.96	59.92	47,785.82234453

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	179.85	

Survey Program	Date 7/24/2018				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
147.50	973.50	Invictus MWD (OH)	MWD	OWSG MWD - Standard	
1,020.00	12,221.00	Legacy MWD (OH)	MWD	OWSG MWD - Standard	
12,283.00	21,945.00	#3 Legacy MWD (OH)	MWD	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
147.50	0.50	351.72	147.50	0.64	-0.09	-0.64	0.34	0.34	0.00
209.50	0.50	305.72	209.50	1.06	-0.35	-1.06	0.63	0.00	-74.19
239.50	0.80	337.72	239.49	1.33	-0.54	-1.33	1.53	1.00	106.67
333.50	0.70	352.72	333.49	2.51	-0.86	-2.51	0.23	-0.11	15.96
428.50	0.80	335.72	428.48	3.69	-1.20	-3.69	0.26	0.11	-17.89
522.50	0.40	307.72	522.47	4.49	-1.73	-4.49	0.52	-0.43	-29.79
616.50	0.30	292.72	616.47	4.78	-2.22	-4.79	0.14	-0.11	-15.96
710.50	0.60	269.72	710.47	4.88	-2.94	-4.88	0.37	0.32	-24.47

Survey Report

Company: Devon Energy
Project: Eddy County, New Mexico (NAD 83)
Site: Lusitano 27-34 FED COM
Well: 626H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well 626H
TVD Reference: GL 3336' + 26' KB @ 3362.00usft (ICD 217)
MD Reference: GL 3336' + 26' KB @ 3362.00usft (ICD 217)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14 Single User 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)
804.50	0.50	277.72	804.46	4.93	-3.84	-4.94	0.13	-0.11	8.51
899.50	1.00	257.72	899.46	4.81	-5.06	-4.82	0.59	0.53	-21.05
973.50	1.50	267.72	973.44	4.63	-6.66	-4.65	0.73	0.68	13.51
1,020.00	1.16	282.62	1,019.93	4.71	-7.73	-4.73	1.04	-0.73	32.04
1,113.00	2.18	293.34	1,112.88	5.62	-10.27	-5.65	1.14	1.10	11.53
1,206.00	2.90	304.85	1,205.79	7.66	-13.82	-7.70	0.95	0.77	12.38
1,298.00	3.70	306.30	1,297.64	10.75	-18.13	-10.80	0.87	0.87	1.58
1,390.00	4.62	307.88	1,389.40	14.78	-23.44	-14.84	1.01	1.00	1.72
1,483.00	5.23	308.57	1,482.05	19.73	-29.71	-19.80	0.66	0.66	0.74
1,577.00	5.39	311.51	1,575.65	25.32	-36.37	-25.42	0.34	0.17	3.13
1,672.00	5.64	308.39	1,670.21	31.18	-43.37	-31.29	0.41	0.26	-3.28
1,767.00	5.60	308.57	1,764.75	36.97	-50.65	-37.10	0.05	-0.04	0.19
1,862.00	5.42	296.17	1,859.32	41.84	-58.30	-41.99	1.26	-0.19	-13.05
1,956.00	5.45	287.38	1,952.90	45.13	-66.55	-45.30	0.89	0.03	-9.35
2,052.00	5.35	285.94	2,048.47	47.72	-75.20	-47.92	0.18	-0.10	-1.50
2,147.00	5.16	284.60	2,143.07	50.01	-83.59	-50.23	0.24	-0.20	-1.41
2,242.00	5.05	285.47	2,237.69	52.20	-91.76	-52.44	0.14	-0.12	0.92
2,336.00	4.93	287.68	2,331.34	54.53	-99.59	-54.80	0.24	-0.13	2.35
2,432.00	5.69	281.62	2,426.93	56.75	-108.19	-57.03	0.98	0.79	-6.31
2,527.00	5.32	280.36	2,521.49	58.49	-117.13	-58.79	0.41	-0.39	-1.33
2,622.00	4.85	277.98	2,616.11	59.84	-125.44	-60.16	0.54	-0.49	-2.51
2,717.00	4.32	276.92	2,710.81	60.82	-132.97	-61.17	0.56	-0.56	-1.12
2,812.00	4.30	289.16	2,805.54	62.42	-139.89	-62.79	0.97	-0.02	12.88
2,907.00	5.21	284.03	2,900.22	64.64	-147.43	-65.03	1.06	0.96	-5.40
3,002.00	5.24	280.89	2,994.82	66.50	-155.88	-66.91	0.30	0.03	-3.31
3,097.00	5.11	277.04	3,089.43	67.84	-164.34	-68.27	0.39	-0.14	-4.05
3,193.00	4.88	287.02	3,185.07	69.56	-172.49	-70.01	0.93	-0.24	10.40
3,287.00	4.35	287.40	3,278.77	71.80	-179.71	-72.27	0.56	-0.56	0.40
3,382.00	5.04	278.87	3,373.45	73.52	-187.27	-74.01	1.03	0.73	-8.98
3,477.00	4.99	274.30	3,468.09	74.47	-195.51	-74.98	0.42	-0.05	-4.81
3,572.00	5.65	278.50	3,562.68	75.47	-204.26	-76.01	0.81	0.69	4.42
3,668.00	4.50	276.89	3,658.30	76.62	-212.67	-77.18	1.21	-1.20	-1.68
3,763.00	4.40	288.45	3,753.01	78.22	-219.83	-78.80	0.95	-0.11	12.17
3,859.00	3.77	290.42	3,848.77	80.49	-226.28	-81.08	0.67	-0.66	2.05
3,954.00	3.39	286.53	3,943.58	82.38	-231.90	-82.99	0.47	-0.40	-4.09
4,049.00	4.31	289.28	4,038.37	84.36	-237.96	-84.98	0.99	0.97	2.89
4,146.00	5.58	294.30	4,135.01	87.50	-245.70	-88.14	1.38	1.31	5.18
4,239.00	4.88	295.26	4,227.62	91.05	-253.40	-91.71	0.76	-0.75	1.03
4,334.00	5.65	291.90	4,322.22	94.52	-261.39	-95.20	0.87	0.81	-3.54
4,429.00	5.62	293.06	4,416.76	98.09	-270.01	-98.79	0.12	-0.03	1.22
4,524.00	5.60	291.07	4,511.30	101.57	-278.62	-102.30	0.21	-0.02	-2.09
4,619.00	5.56	293.86	4,605.85	105.10	-287.15	-105.85	0.29	-0.04	2.94
4,714.00	5.44	292.75	4,700.42	108.70	-295.51	-109.48	0.17	-0.13	-1.17

Survey Report

Company: Devon Energy
Project: Eddy County, New Mexico (NAD 83)
Site: Lusitano 27-34 FED COM
Well: 626H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well 626H
TVD Reference: GL 3336' + 26' KB @ 3362.00usft (ICD 217)
MD Reference: GL 3336' + 26' KB @ 3362.00usft (ICD 217)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14 Single User 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)
4,809.00	5.41	295.28	4,794.99	112.36	-303.72	-113.15	0.25	-0.03	2.66
4,904.00	5.21	292.59	4,889.58	115.93	-311.75	-116.74	0.34	-0.21	-2.83
4,999.00	4.82	289.15	4,984.22	118.89	-319.50	-119.73	0.52	-0.41	-3.62
5,094.00	4.76	277.39	5,078.89	120.71	-327.18	-121.57	1.03	-0.06	-12.38
5,189.00	5.78	281.60	5,173.49	122.18	-335.78	-123.06	1.15	1.07	4.43
5,285.00	5.90	281.18	5,268.99	124.11	-345.35	-125.01	0.13	0.13	-0.44
5,380.00	5.42	281.39	5,363.53	125.94	-354.54	-126.87	0.51	-0.51	0.22
5,475.00	5.30	279.27	5,458.11	127.53	-363.27	-128.48	0.24	-0.13	-2.23
5,571.00	5.11	281.01	5,553.71	129.06	-371.84	-130.04	0.26	-0.20	1.81
5,666.00	4.99	282.64	5,648.35	130.78	-380.02	-131.77	0.20	-0.13	1.72
5,760.00	4.90	284.92	5,742.00	132.70	-387.89	-133.72	0.23	-0.10	2.43
5,856.00	5.31	285.73	5,837.61	134.96	-396.13	-136.00	0.43	0.43	0.84
5,951.00	5.27	287.66	5,932.21	137.48	-404.52	-138.54	0.19	-0.04	2.03
6,046.00	4.80	287.32	6,026.84	139.99	-412.47	-141.07	0.50	-0.49	-0.36
6,141.00	5.26	293.85	6,121.48	142.93	-420.25	-144.03	0.77	0.48	6.87
6,236.00	4.96	288.68	6,216.10	146.01	-428.12	-147.13	0.58	-0.32	-5.44
6,331.00	4.96	287.88	6,310.74	148.58	-435.92	-149.72	0.07	0.00	-0.84
6,426.00	4.69	288.93	6,405.41	151.10	-443.50	-152.26	0.30	-0.28	1.11
6,522.00	5.55	294.45	6,501.02	154.30	-451.44	-155.48	1.03	0.90	5.75
6,617.00	5.61	296.18	6,595.57	158.25	-459.79	-159.45	0.19	0.06	1.82
6,712.00	4.91	295.53	6,690.17	162.05	-467.63	-163.27	0.74	-0.74	-0.68
6,807.00	4.39	296.63	6,784.86	165.43	-474.55	-166.67	0.56	-0.55	1.16
6,902.00	4.50	294.92	6,879.58	168.63	-481.18	-169.89	0.18	0.12	-1.80
6,997.00	4.60	296.53	6,974.28	171.90	-487.96	-173.18	0.17	0.11	1.69
7,092.00	5.32	295.65	7,068.92	175.51	-495.34	-176.81	0.76	0.76	-0.93
7,187.00	5.38	295.54	7,163.51	179.34	-503.33	-180.66	0.06	0.06	-0.12
7,283.00	4.88	296.88	7,259.12	183.12	-511.03	-184.46	0.54	-0.52	1.40
7,378.00	5.08	287.82	7,353.76	186.24	-518.64	-187.60	0.85	0.21	-9.54
7,474.00	4.88	284.11	7,449.40	188.54	-526.65	-189.91	0.39	-0.21	-3.86
7,569.00	4.54	284.44	7,544.08	190.46	-534.21	-191.86	0.36	-0.36	0.35
7,664.00	4.09	283.26	7,638.81	192.17	-541.15	-193.59	0.48	-0.47	-1.24
7,759.00	3.86	282.68	7,733.58	193.65	-547.56	-195.08	0.25	-0.24	-0.61
7,854.00	3.55	281.93	7,828.38	194.96	-553.56	-196.41	0.33	-0.33	-0.79
7,950.00	3.56	284.25	7,924.20	196.31	-559.36	-197.77	0.15	0.01	2.42
8,045.00	3.74	285.45	8,019.01	197.86	-565.20	-199.34	0.21	0.19	1.26
8,139.00	3.39	282.19	8,112.82	199.26	-570.88	-200.76	0.43	-0.37	-3.47
8,235.00	3.02	277.63	8,208.67	200.20	-576.16	-201.71	0.47	-0.39	-4.75
8,330.00	2.30	270.57	8,303.57	200.55	-580.54	-202.07	0.83	-0.76	-7.43
8,425.00	2.03	264.40	8,398.50	200.41	-584.12	-201.93	0.38	-0.28	-6.49
8,520.00	1.69	258.17	8,493.45	199.95	-587.17	-201.49	0.42	-0.36	-6.56
8,616.00	1.39	260.23	8,589.42	199.47	-589.70	-201.01	0.32	-0.31	2.15
8,711.00	1.95	254.28	8,684.38	198.83	-592.39	-200.38	0.62	0.59	-6.26
8,806.00	1.84	298.42	8,779.33	199.12	-595.29	-200.68	1.50	-0.12	46.46

Survey Report

Company: Devon Energy
Project: Eddy County, New Mexico (NAD 83)
Site: Lusitano 27-34 FED COM
Well: 626H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well 626H
TVD Reference: GL 3336' + 26' KB @ 3362.00usft (ICD 217)
MD Reference: GL 3336' + 26' KB @ 3362.00usft (ICD 217)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14 Single User 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)
8,896.00	2.41	300.50	8,869.27	200.77	-598.19	-202.33	0.64	0.63	2.31
8,991.00	1.18	320.42	8,964.22	202.54	-600.54	-204.11	1.43	-1.29	20.97
9,086.00	0.80	289.09	9,059.21	203.51	-601.79	-205.08	0.68	-0.40	-32.98
9,181.00	2.40	331.08	9,154.17	205.47	-603.37	-207.04	1.98	1.68	44.20
9,277.00	1.84	310.01	9,250.11	208.22	-605.53	-209.80	0.99	-0.58	-21.95
9,371.00	0.94	284.91	9,344.08	209.38	-607.43	-210.97	1.13	-0.96	-26.70
9,516.00	0.92	311.46	9,489.06	210.46	-609.45	-212.06	0.29	-0.01	18.31
9,611.00	1.49	17.83	9,584.04	212.14	-609.64	-213.74	1.48	0.60	69.86
9,706.00	1.24	31.91	9,679.01	214.19	-608.72	-215.78	0.44	-0.26	14.82
9,801.00	0.44	96.25	9,774.01	215.02	-607.82	-216.61	1.18	-0.84	67.73
9,896.00	1.01	185.86	9,869.00	214.15	-607.54	-215.74	1.16	0.60	94.33
9,991.00	0.67	132.44	9,963.99	212.94	-607.21	-214.53	0.86	-0.36	-56.23
10,086.00	0.62	128.11	10,058.98	212.25	-606.40	-213.84	0.07	-0.05	-4.56
10,180.00	1.23	178.29	10,152.97	210.93	-605.97	-212.51	1.02	0.65	53.38
10,275.00	1.14	229.59	10,247.96	209.30	-606.66	-210.88	1.08	-0.09	54.00
10,371.00	2.17	249.66	10,343.91	208.05	-609.09	-209.64	1.22	1.07	20.91
10,466.00	1.39	269.93	10,438.87	207.42	-611.93	-209.02	1.04	-0.82	21.34
10,561.00	2.09	264.72	10,533.82	207.26	-614.81	-208.87	0.75	0.74	-5.48
10,656.00	1.35	287.43	10,628.78	207.43	-617.60	-209.05	1.04	-0.78	23.91
10,752.00	0.67	115.58	10,724.78	207.53	-618.17	-209.15	2.10	-0.71	-179.01
10,846.00	1.93	132.42	10,818.75	206.23	-616.51	-207.84	1.39	1.34	17.91
10,942.00	0.54	117.92	10,914.73	204.92	-614.91	-206.53	1.47	-1.45	-15.10
11,037.00	0.16	229.55	11,009.72	204.63	-614.62	-206.24	0.65	-0.40	117.51
11,133.00	0.39	300.76	11,105.72	204.71	-615.00	-206.32	0.39	0.24	74.18
11,196.00	0.52	316.18	11,168.72	205.02	-615.38	-206.63	0.28	0.21	24.48
11,229.00	0.71	319.17	11,201.72	205.29	-615.62	-206.90	0.58	0.58	9.06
11,261.00	0.48	279.63	11,233.72	205.46	-615.88	-207.07	1.43	-0.72	-123.56
11,324.00	7.69	187.28	11,296.53	201.32	-616.68	-202.93	12.26	11.44	-146.59
11,419.00	20.34	190.14	11,388.51	178.67	-620.41	-180.29	13.33	13.32	3.01
11,514.00	27.50	186.09	11,475.30	140.55	-625.65	-142.19	7.73	7.54	-4.26
11,610.00	35.99	184.95	11,556.87	90.32	-630.44	-91.97	8.87	8.84	-1.19
11,705.00	45.60	183.31	11,628.71	28.48	-634.82	-30.14	10.18	10.12	-1.73
11,800.00	52.88	178.09	11,690.71	-43.38	-635.52	41.71	8.72	7.66	-5.49
11,861.62	56.69	176.00	11,726.24	-93.64	-632.90	91.98	6.78	6.19	-3.40
LP - 626H									
11,868.00	57.09	175.79	11,729.73	-98.97	-632.52	97.31	6.78	6.22	-3.23
FTP 11868'MD / 11729.73'TVD									
11,876.21	57.60	175.53	11,734.16	-105.87	-632.00	104.21	6.78	6.22	-3.19
LP - 626H P6									
11,895.00	58.77	174.94	11,744.06	-121.77	-630.67	120.12	6.78	6.23	-3.14
11,989.00	67.72	176.09	11,786.34	-205.37	-624.14	203.73	9.58	9.52	1.22
12,084.00	79.40	183.69	11,813.21	-296.25	-624.15	294.61	14.48	12.29	8.00
12,180.00	82.52	184.49	11,828.30	-390.80	-630.92	389.15	3.35	3.25	0.83
12,221.00	84.78	184.26	11,832.83	-431.43	-634.02	429.77	5.54	5.51	-0.56

Survey Report

Company: Devon Energy
 Project: Eddy County, New Mexico (NAD 83)
 Site: Lusitano 27-34 FED COM
 Well: 626H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well 626H
 TVD Reference: GL 3336' + 26' KB @ 3362.00usft (ICD 217)
 MD Reference: GL 3336' + 26' KB @ 3362.00usft (ICD 217)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.14 Single User 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)
12,283.00	89.02	182.42	11,836.18	-493.22	-637.63	491.55	7.45	6.84	-2.97
12,360.00	93.07	180.14	11,834.78	-570.16	-639.35	568.49	6.04	5.26	-2.96
12,455.00	91.62	180.29	11,830.89	-665.08	-639.71	663.40	1.53	-1.53	0.16
12,550.00	90.21	179.93	11,829.37	-760.07	-639.89	758.39	1.53	-1.48	-0.38
12,645.00	89.07	175.84	11,829.97	-854.98	-636.38	853.31	4.47	-1.20	-4.31
12,740.00	89.20	179.55	11,831.41	-949.87	-632.56	948.21	3.91	0.14	3.91
12,835.00	89.40	182.09	11,832.57	-1,044.85	-633.92	1,043.19	2.68	0.21	2.67
12,930.00	89.59	178.85	11,833.40	-1,139.83	-634.70	1,138.16	3.42	0.20	-3.41
13,024.00	90.01	178.46	11,833.73	-1,233.80	-632.49	1,232.14	0.61	0.45	-0.41
13,118.00	90.01	179.49	11,833.72	-1,327.79	-630.81	1,326.13	1.10	0.00	1.10
13,208.00	89.86	183.49	11,833.82	-1,417.74	-633.15	1,416.08	4.45	-0.17	4.44
13,303.00	91.18	177.94	11,832.96	-1,512.69	-634.34	1,511.02	6.00	1.39	-5.84
13,397.00	90.36	175.69	11,831.69	-1,606.53	-629.12	1,604.87	2.55	-0.87	-2.39
13,487.00	90.11	178.70	11,831.32	-1,696.41	-624.71	1,694.77	3.36	-0.28	3.34
13,581.00	89.90	177.67	11,831.31	-1,790.36	-621.74	1,788.73	1.12	-0.22	-1.10
13,675.00	90.92	176.77	11,830.64	-1,884.24	-617.18	1,882.62	1.45	1.09	-0.96
13,770.00	88.79	175.67	11,830.88	-1,979.03	-610.91	1,977.42	2.52	-2.24	-1.16
13,865.00	91.23	175.42	11,830.87	-2,073.74	-603.54	2,072.15	2.58	2.57	-0.26
13,960.00	92.97	179.02	11,827.38	-2,168.54	-598.93	2,166.97	4.21	1.83	3.79
14,056.00	91.37	180.99	11,823.75	-2,264.46	-598.94	2,262.89	2.64	-1.67	2.05
14,151.00	92.52	180.10	11,820.52	-2,359.40	-599.84	2,357.82	1.53	1.21	-0.94
14,246.00	90.64	180.73	11,817.90	-2,454.36	-600.53	2,452.78	2.09	-1.98	0.66
14,341.00	90.39	182.68	11,817.05	-2,549.31	-603.36	2,547.72	2.07	-0.26	2.05
14,435.00	89.50	183.33	11,817.14	-2,643.18	-608.29	2,641.58	1.17	-0.95	0.69
14,529.00	88.77	183.21	11,818.56	-2,737.01	-613.65	2,735.40	0.79	-0.78	-0.13
14,623.00	88.71	181.30	11,820.63	-2,830.91	-617.34	2,829.29	2.03	-0.06	-2.03
14,718.00	88.74	180.93	11,822.74	-2,925.87	-619.19	2,924.24	0.39	0.03	-0.39
14,812.00	88.79	181.37	11,824.77	-3,019.83	-621.08	3,018.20	0.47	0.05	0.47
14,906.00	91.57	178.45	11,824.47	-3,113.81	-620.93	3,112.18	4.29	2.96	-3.11
15,001.00	87.17	179.20	11,825.52	-3,208.76	-618.98	3,207.13	4.70	-4.63	0.79
15,095.00	90.25	177.74	11,827.63	-3,302.69	-616.47	3,301.07	3.63	3.28	-1.55
15,188.00	90.56	176.72	11,826.97	-3,395.58	-611.98	3,393.96	1.15	0.33	-1.10
15,283.00	90.45	176.41	11,826.14	-3,490.40	-606.29	3,488.80	0.35	-0.12	-0.33
15,377.00	91.32	178.26	11,824.69	-3,584.29	-601.92	3,582.70	2.17	0.93	1.97
15,472.00	90.79	180.28	11,822.94	-3,679.26	-600.71	3,677.67	2.20	-0.56	2.13
15,566.00	89.75	180.44	11,822.49	-3,773.25	-601.30	3,771.67	1.12	-1.11	0.17
15,660.00	89.52	180.42	11,823.09	-3,867.25	-602.00	3,865.66	0.25	-0.24	-0.02
15,754.00	89.61	180.58	11,823.81	-3,961.24	-602.82	3,959.65	0.20	0.10	0.17
15,848.00	91.09	180.05	11,823.23	-4,055.24	-603.34	4,053.64	1.67	1.57	-0.56
15,942.00	91.54	180.17	11,821.07	-4,149.21	-603.52	4,147.62	0.50	0.48	0.13
16,036.00	89.19	180.28	11,820.48	-4,243.20	-603.89	4,241.61	2.50	-2.50	0.12
16,130.00	89.94	180.74	11,821.19	-4,337.19	-604.73	4,335.60	0.94	0.80	0.49
16,224.00	92.41	182.72	11,819.26	-4,431.12	-607.56	4,429.51	3.37	2.63	2.11
16,318.00	90.53	180.21	11,816.85	-4,525.05	-609.96	4,523.43	3.34	-2.00	-2.67

Survey Report

Company: Devon Energy
Project: Eddy County, New Mexico (NAD 83)
Site: Lusitano 27-34 FED COM
Well: 626H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well 626H
TVD Reference: GL 3336' + 26' KB @ 3362.00usft (ICD 217)
MD Reference: GL 3336' + 26' KB @ 3362.00usft (ICD 217)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14 Single User 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)
16,412.00	90.79	179.44	11,815.77	-4,619.04	-609.68	4,617.43	0.86	0.28	-0.82
16,506.00	89.69	179.35	11,815.37	-4,713.03	-608.68	4,711.42	1.17	-1.17	-0.10
16,600.00	90.39	180.15	11,815.31	-4,807.03	-608.27	4,805.42	1.13	0.74	0.85
16,695.00	89.86	178.98	11,815.10	-4,902.02	-607.55	4,900.42	1.35	-0.56	-1.23
16,789.00	90.56	180.22	11,814.76	-4,996.02	-606.90	4,994.41	1.51	0.74	1.32
16,794.49	90.59	180.08	11,814.70	-5,001.51	-606.91	4,999.90	2.54	0.56	-2.48
Midpoint - 626H P6									
16,794.90	90.59	180.07	11,814.70	-5,001.92	-606.91	5,000.31	2.54	0.56	-2.48
Midpoint - 626H									
16,883.00	91.09	177.89	11,813.40	-5,089.99	-605.35	5,088.39	2.54	0.56	-2.48
16,978.00	92.05	178.67	11,810.80	-5,184.91	-602.50	5,183.31	1.30	1.01	0.82
17,072.00	90.93	178.15	11,808.36	-5,278.84	-599.89	5,277.25	1.31	-1.19	-0.55
17,166.00	91.60	178.56	11,806.28	-5,372.78	-597.19	5,371.19	0.84	0.71	0.44
17,261.00	92.47	179.39	11,802.91	-5,467.70	-595.49	5,466.12	1.27	0.92	0.87
17,356.00	90.56	178.89	11,800.40	-5,562.65	-594.07	5,561.08	2.08	-2.01	-0.53
17,450.00	91.79	179.64	11,798.47	-5,656.62	-592.86	5,655.05	1.53	1.31	0.80
17,544.00	90.20	179.65	11,796.84	-5,750.60	-592.28	5,749.03	1.69	-1.69	0.01
17,638.00	91.26	180.74	11,795.64	-5,844.59	-592.60	5,843.02	1.62	1.13	1.16
17,732.00	91.74	181.59	11,793.18	-5,938.54	-594.51	5,936.96	1.04	0.51	0.90
17,826.00	92.07	181.32	11,790.05	-6,032.46	-596.90	6,030.87	0.45	0.35	-0.29
17,921.00	89.44	180.32	11,788.80	-6,127.43	-598.25	6,125.84	2.96	-2.77	-1.05
18,015.00	90.00	180.21	11,789.26	-6,221.43	-598.69	6,219.84	0.61	0.60	-0.12
18,110.00	89.72	180.75	11,789.49	-6,316.42	-599.48	6,314.83	0.64	-0.29	0.57
18,204.00	91.35	178.91	11,788.61	-6,410.41	-599.21	6,408.82	2.61	1.73	-1.96
18,298.00	91.23	178.81	11,786.50	-6,504.37	-597.34	6,502.78	0.17	-0.13	-0.11
18,392.00	88.88	179.12	11,786.41	-6,598.35	-595.64	6,596.76	2.52	-2.50	0.33
18,486.00	89.89	179.88	11,787.42	-6,692.33	-594.82	6,690.75	1.34	1.07	0.81
18,580.00	88.37	179.02	11,788.84	-6,786.32	-593.92	6,784.74	1.86	-1.62	-0.91
18,674.00	91.71	179.52	11,788.78	-6,880.29	-592.72	6,878.72	3.59	3.55	0.53
18,768.00	90.42	179.30	11,787.03	-6,974.27	-591.75	6,972.70	1.39	-1.37	-0.23
18,862.00	88.52	179.01	11,787.90	-7,068.25	-590.37	7,066.68	2.04	-2.02	-0.31
18,956.00	90.14	179.25	11,789.00	-7,162.23	-588.94	7,160.67	1.74	1.72	0.26
19,050.00	93.48	180.85	11,786.03	-7,256.17	-589.02	7,254.60	3.94	3.55	1.70
19,145.00	90.76	180.77	11,782.52	-7,351.09	-590.36	7,349.51	2.86	-2.86	-0.08
19,239.00	90.14	179.63	11,781.78	-7,445.08	-590.69	7,443.51	1.38	-0.66	-1.21
19,333.00	90.00	180.17	11,781.66	-7,539.08	-590.52	7,537.51	0.59	-0.15	0.57
19,427.00	91.68	179.46	11,780.29	-7,633.06	-590.22	7,631.49	1.94	1.79	-0.76
19,521.00	92.24	180.18	11,777.07	-7,727.01	-589.93	7,725.44	0.97	0.60	0.77
19,615.00	91.48	180.79	11,774.02	-7,820.95	-590.72	7,819.38	1.04	-0.81	0.65
19,710.00	89.36	180.38	11,773.32	-7,915.94	-591.69	7,914.37	2.27	-2.23	-0.43
19,804.00	90.34	180.26	11,773.57	-8,009.94	-592.22	8,008.36	1.05	1.04	-0.13
19,898.00	88.18	179.18	11,774.78	-8,103.92	-591.76	8,102.35	2.57	-2.30	-1.15
19,992.00	86.44	178.17	11,779.20	-8,197.79	-589.59	8,196.22	2.14	-1.85	-1.07

Survey Report

Company: Devon Energy
Project: Eddy County, New Mexico (NAD 83)
Site: Lusitano 27-34 FED COM
Well: 626H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well 626H
TVD Reference: GL 3336' + 26' KB @ 3362.00usft (ICD 217)
MD Reference: GL 3336' + 26' KB @ 3362.00usft (ICD 217)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14 Single User 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)
20,086.00	89.38	178.84	11,782.62	-8,291.68	-587.14	8,290.12	3.21	3.13	0.71
20,181.00	91.04	178.29	11,782.27	-8,386.65	-584.76	8,385.09	1.84	1.75	-0.58
20,275.00	90.45	178.76	11,781.05	-8,480.61	-582.34	8,479.06	0.80	-0.63	0.50
20,369.00	90.76	177.50	11,780.06	-8,574.55	-579.27	8,573.01	1.38	0.33	-1.34
20,464.00	89.55	175.77	11,779.80	-8,669.38	-573.70	8,667.85	2.22	-1.27	-1.82
20,557.00	90.48	176.29	11,779.78	-8,762.16	-567.26	8,760.64	1.15	1.00	0.56
20,651.00	93.36	178.37	11,776.63	-8,855.99	-562.88	8,854.48	3.78	3.06	2.21
20,746.00	92.77	178.64	11,771.55	-8,950.82	-560.40	8,949.32	0.68	-0.62	0.28
20,840.00	92.22	179.43	11,767.46	-9,044.72	-558.82	9,043.22	1.02	-0.59	0.84
20,935.00	89.30	178.94	11,766.20	-9,139.69	-557.47	9,138.20	3.12	-3.07	-0.52
21,029.00	91.82	181.17	11,765.28	-9,233.67	-557.56	9,232.18	3.58	2.68	2.37
21,123.00	96.40	184.50	11,758.54	-9,327.28	-562.19	9,325.77	6.02	4.87	3.54
21,217.00	94.15	183.27	11,749.90	-9,420.65	-568.53	9,419.13	2.73	-2.39	-1.31
21,311.00	92.19	184.62	11,744.70	-9,514.28	-574.99	9,512.74	2.53	-2.09	1.44
21,405.00	93.98	183.70	11,739.64	-9,607.89	-581.80	9,606.34	2.14	1.90	-0.98
21,499.00	90.95	183.96	11,735.60	-9,701.59	-588.07	9,700.01	3.24	-3.22	0.28
21,593.00	87.76	184.23	11,736.66	-9,795.33	-594.78	9,793.74	3.41	-3.39	0.29
21,688.00	87.87	184.50	11,740.28	-9,889.98	-602.01	9,888.37	0.31	0.12	0.28
21,782.00	91.66	185.66	11,740.67	-9,983.59	-610.33	9,981.96	4.22	4.03	1.23
21,819.66	91.53	185.75	11,739.62	-10,021.05	-614.07	10,019.41	0.43	-0.36	0.23
BHL - 626H P6									
21,820.86	91.53	185.75	11,739.59	-10,022.24	-614.19	10,020.60	0.00	0.00	0.00
BHL - 626H									
21,823.65	91.51	185.76	11,739.51	-10,025.02	-614.47	10,023.38	0.61	-0.51	0.33
LTP 21823.65'MD / 11739.51'TVD									
21,877.00	91.32	185.88	11,738.20	-10,078.08	-619.87	10,076.42	0.43	-0.36	0.23
Last Survey 21877'MD / 11738.20'TVD									
21,945.00	91.32	185.88	11,736.63	-10,145.70	-626.84	10,144.03	0.00	0.00	0.00
PTB 21945'MD / 11736.63'TVD									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
11,868.00	11,729.73	-98.97	-632.52	FTP 11868'MD / 11729.73'TVD
21,823.65	11,739.51	-10,025.02	-614.47	LTP 21823.65'MD / 11739.51'TVD
21,877.00	11,738.20	-10,078.08	-619.87	Last Survey 21877'MD / 11738.20'TVD
21,945.00	11,736.63	-10,145.70	-626.84	PTB 21945'MD / 11736.63'TVD

Checked By: _____ Approved By: _____ Date: _____