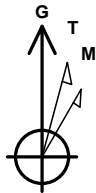


ELEVATION RESOURCES LLC

Project: Andrews County, TX (NAI)
Site: University 1-27 S Unit #3H
Well: #3H
Wellbore: Lateral
Design: Lateral



To convert a Magnetic Direction to a Grid Direction, Add 9.24°

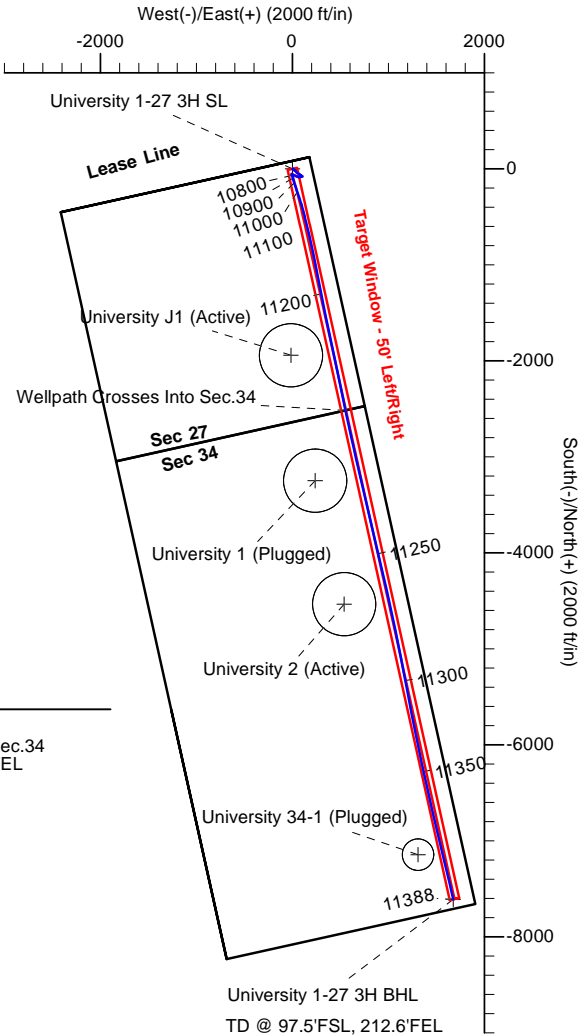
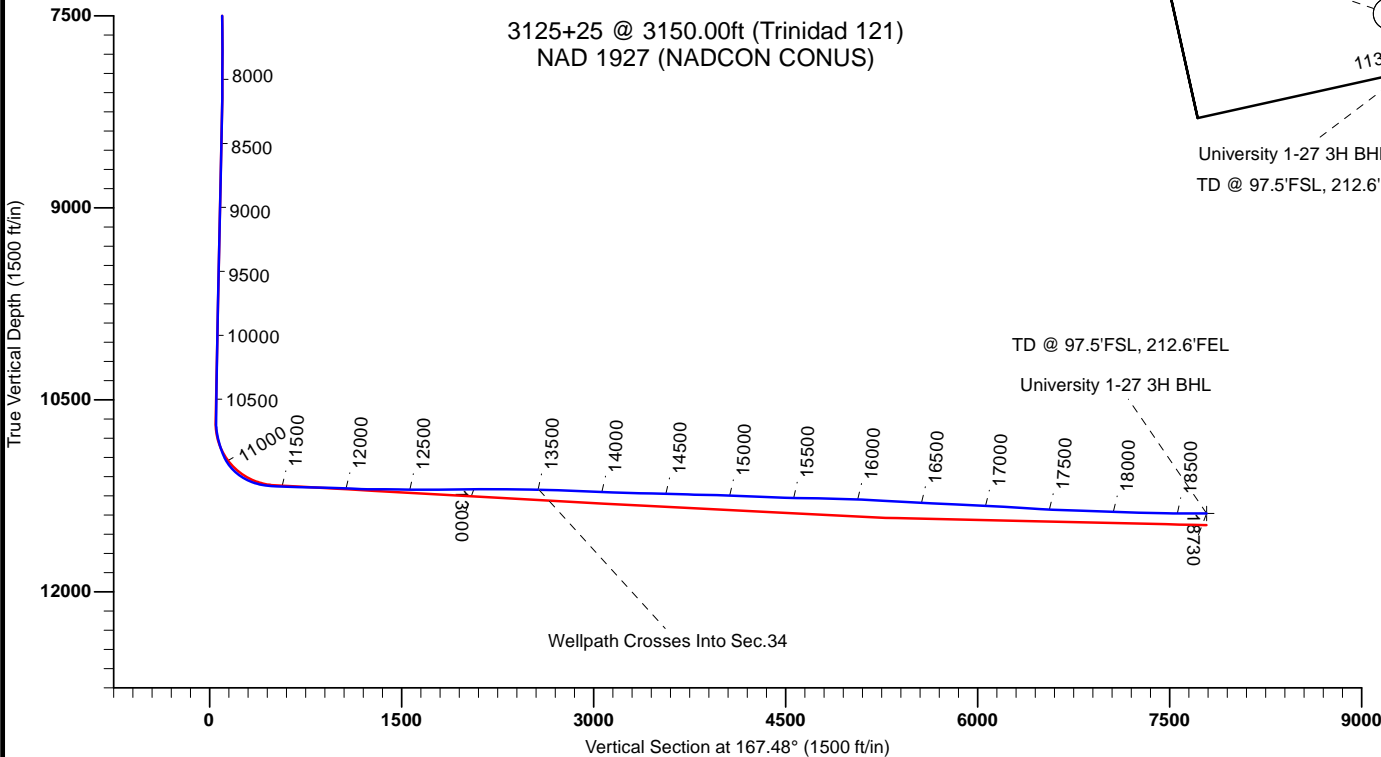


Azimuths to Grid North
True North: 2.73°
Magnetic North: 9.24°

Magnetic Field
Strength: 48070.4snT
Dip Angle: 60.18°
Date: 11/28/2016
Model: IGRF2015

ANNOTATIONS

TVD	MD	+N/-S	+E/-W	Annotation
11204.14	13510.00	-2515.12	553.74	Wellpath Crosses Into Sec.34
11388.20	18730.00	-7608.50	1675.39	TD @ 97.5'FSL, 212.6'FEL



TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
University 1 (Plugged)	0.00	-3247.02	237.41	214886.03	450802.00	Circle (Radius: 330.00)
University 1-27 3H SL	0.00	0.00	0.00	218133.05	450564.59	Point
University 2 (Active)	0.00	-4532.90	539.85	213600.15	451104.44	Circle (Radius: 330.00)
University 34-1 (Plugged)	0.00	-7143.07	1308.76	210989.98	451873.36	Circle (Radius: 164.13)
University J1 (Active)	0.00	-1940.95	-14.77	216192.10	450549.82	Circle (Radius: 330.00)
University 1-27 3H BHL	11388.20	-7608.50	1675.39	210524.55	452239.98	Point



Company:	ELEVATION RESOURCES LLC	Local Co-ordinate Reference:	Well #3H
Project:	Andrews County, TX (NAD27)	TVD Reference:	3125+25 @ 3150.00ft (Trinidad 121)
Site:	University 1-27 S Unit #3H	MD Reference:	3125+25 @ 3150.00ft (Trinidad 121)
Well:	#3H	North Reference:	Grid
Wellbore:	Lateral	Survey Calculation Method:	Minimum Curvature
Design:	Lateral	Database:	VONEDM

Project	Andrews County, TX (NAD27)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Texas North Central 4202		

Site	University 1-27 S Unit #3H		
Site Position:		Northing:	218,133.06 ft
From:	Map	Easting:	450,564.59 ft
Position Uncertainty:	0.00 ft	Slot Radius:	13.20 in
		Latitude:	32° 9' 52.913 N
		Longitude:	102° 30' 31.404 W
		Grid Convergence:	-2.73 °

Well	#3H		
Well Position	+N/-S	0.00 ft	Northing: 218,133.06 ft
	+E/-W	0.00 ft	Easting: 450,564.59 ft
Position Uncertainty	0.00 ft	Wellhead Elevation:	0.00 ft
		Latitude:	32° 9' 52.913 N
		Longitude:	102° 30' 31.404 W
		Ground Level:	3,125.00 ft

Wellbore	Lateral				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	11/28/16	6.50	60.18	48,070

Design	Lateral				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	167.48	

Survey Program	Date	01/16/17			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
164.00	7,075.00	Survey #1 (Lateral)	MWD	MWD v3:standard declination	
7,138.00	18,677.00	Survey #2 (Lateral)	MWD	MWD v3:standard declination	
18,730.00	18,730.00	Survey #3 (Lateral)	Projection	Projection	

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
University J1 (Active) - University 1 (Plugged) - University 1-27 3H SL - University 2 (Active)										
1.21	0.01	80.92	1.21	0.00	0.00	0.00	0.51	0.51	0.00	
University 34-1 (Plugged)										
164.00	0.84	80.92	163.99	0.19	1.19	0.07	0.51	0.51	0.00	
254.00	0.91	83.50	253.98	0.37	2.55	0.19	0.09	0.08	2.87	
344.00	0.70	97.36	343.97	0.39	3.80	0.45	0.32	-0.23	15.40	
523.00	0.76	97.97	522.96	0.08	6.06	1.24	0.03	0.03	0.34	

Company:	ELEVATION RESOURCES LLC	Local Co-ordinate Reference:	Well #3H
Project:	Andrews County, TX (NAD27)	TVD Reference:	3125+25 @ 3150.00ft (Trinidad 121)
Site:	University 1-27 S Unit #3H	MD Reference:	3125+25 @ 3150.00ft (Trinidad 121)
Well:	#3H	North Reference:	Grid
Wellbore:	Lateral	Survey Calculation Method:	Minimum Curvature
Design:	Lateral	Database:	VONEDM

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
612.00	0.82	126.20	611.95	-0.38	7.16	1.92	0.44	0.07	31.72	
707.00	0.61	124.60	706.94	-1.07	8.13	2.80	0.22	-0.22	-1.68	
775.00	0.75	124.66	774.94	-1.52	8.79	3.39	0.21	0.21	0.09	
890.00	0.76	126.04	889.93	-2.40	10.03	4.52	0.02	0.01	1.20	
1,032.00	0.66	131.59	1,031.92	-3.50	11.40	5.89	0.09	-0.07	3.91	
1,124.00	0.68	114.79	1,123.91	-4.08	12.29	6.65	0.21	0.02	-18.26	
1,216.00	0.73	125.68	1,215.91	-4.65	13.26	7.41	0.16	0.05	11.84	
1,307.00	0.85	133.96	1,306.90	-5.46	14.22	8.41	0.18	0.13	9.10	
1,398.00	0.80	136.34	1,397.89	-6.38	15.15	9.52	0.07	-0.05	2.62	
1,490.00	0.86	154.64	1,489.88	-7.47	15.88	10.74	0.29	0.07	19.89	
1,582.00	0.82	154.03	1,581.87	-8.69	16.47	12.05	0.04	-0.04	-0.66	
1,679.00	1.01	163.43	1,678.86	-10.13	17.02	13.58	0.25	0.20	9.69	
1,770.00	0.97	170.14	1,769.84	-11.66	17.38	15.15	0.13	-0.04	7.37	
1,862.00	0.68	155.81	1,861.83	-12.93	17.73	16.46	0.38	-0.32	-15.58	
1,954.00	0.90	106.58	1,953.83	-13.63	18.65	17.35	0.75	0.24	-53.51	
2,046.00	1.04	88.30	2,045.81	-13.81	20.18	17.86	0.37	0.15	-19.87	
2,138.00	0.89	91.26	2,137.80	-13.80	21.73	18.18	0.17	-0.16	3.22	
2,229.00	0.99	102.85	2,228.79	-13.99	23.20	18.69	0.24	0.11	12.74	
2,321.00	0.67	108.83	2,320.78	-14.34	24.48	19.31	0.36	-0.35	6.50	
2,412.00	0.67	121.19	2,411.77	-14.79	25.44	19.95	0.16	0.00	13.58	
2,504.00	0.75	134.42	2,503.76	-15.49	26.33	20.83	0.20	0.09	14.38	
2,596.00	0.83	130.69	2,595.76	-16.35	27.27	21.87	0.10	0.09	-4.05	
2,687.00	1.01	136.60	2,686.74	-17.36	28.32	23.08	0.22	0.20	6.49	
2,778.00	1.16	135.55	2,777.73	-18.60	29.51	24.55	0.17	0.16	-1.15	
2,870.00	1.15	137.84	2,869.71	-19.95	30.79	26.15	0.05	-0.01	2.49	
2,963.00	1.30	140.83	2,962.69	-21.46	32.08	27.90	0.18	0.16	3.22	
3,054.00	1.66	142.15	3,053.66	-23.30	33.54	30.01	0.40	0.40	1.45	
3,145.00	1.71	141.82	3,144.62	-25.41	35.19	32.43	0.06	0.05	-0.36	
3,237.00	1.47	142.19	3,236.58	-27.42	36.76	34.73	0.26	-0.26	0.40	
3,329.00	1.53	142.97	3,328.55	-29.33	38.22	36.92	0.07	0.07	0.85	
3,421.00	1.62	141.48	3,420.52	-31.33	39.77	39.21	0.11	0.10	-1.62	
3,604.00	1.91	136.74	3,603.43	-35.57	43.47	44.15	0.18	0.16	-2.59	
3,695.00	2.00	131.95	3,694.38	-37.74	45.69	46.75	0.20	0.10	-5.26	
3,786.00	1.98	133.27	3,785.32	-39.88	48.02	49.34	0.05	-0.02	1.45	
3,966.00	2.43	121.58	3,965.19	-44.01	53.53	54.57	0.35	0.25	-6.49	
4,058.00	2.41	121.35	4,057.11	-46.04	56.85	57.26	0.02	-0.02	-0.25	
4,150.00	2.13	121.67	4,149.03	-47.94	59.95	59.80	0.30	-0.30	0.35	
4,241.00	2.03	122.69	4,239.97	-49.70	62.75	62.12	0.12	-0.11	1.12	
4,423.00	1.81	129.11	4,421.87	-53.25	67.69	66.66	0.17	-0.12	3.53	
4,516.00	2.11	116.00	4,514.82	-54.93	70.37	68.88	0.58	0.32	-14.10	
4,608.00	2.15	114.07	4,606.75	-56.38	73.47	70.96	0.09	0.04	-2.10	
4,700.00	1.91	118.60	4,698.70	-57.81	76.39	73.00	0.31	-0.26	4.92	
4,792.00	1.56	123.93	4,790.65	-59.25	78.78	74.91	0.42	-0.38	5.79	
4,884.00	1.48	127.85	4,882.62	-60.67	80.75	76.74	0.14	-0.09	4.26	

Company:	ELEVATION RESOURCES LLC	Local Co-ordinate Reference:	Well #3H
Project:	Andrews County, TX (NAD27)	TVD Reference:	3125+25 @ 3150.00ft (Trinidad 121)
Site:	University 1-27 S Unit #3H	MD Reference:	3125+25 @ 3150.00ft (Trinidad 121)
Well:	#3H	North Reference:	Grid
Wellbore:	Lateral	Survey Calculation Method:	Minimum Curvature
Design:	Lateral	Database:	VONEDM

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,976.00	1.22	130.90	4,974.60	-62.04	82.43	78.44	0.29	-0.28	3.32
5,067.00	1.05	134.54	5,065.58	-63.26	83.76	79.92	0.20	-0.19	4.00
5,160.00	1.00	137.39	5,158.56	-64.46	84.92	81.33	0.08	-0.05	3.06
5,240.00	1.02	136.21	5,238.55	-65.49	85.88	82.55	0.04	0.03	-1.48
5,340.00	0.87	127.88	5,338.54	-66.59	87.10	83.89	0.20	-0.15	-8.33
5,431.00	0.77	120.68	5,429.53	-67.33	88.17	84.84	0.16	-0.11	-7.91
5,522.00	0.84	125.30	5,520.52	-68.03	89.24	85.76	0.10	0.08	5.08
5,613.00	0.70	125.62	5,611.51	-68.74	90.23	86.66	0.15	-0.15	0.35
5,705.00	0.65	115.70	5,703.50	-69.29	91.16	87.41	0.14	-0.05	-10.78
5,795.00	0.56	129.37	5,793.50	-69.79	91.96	88.07	0.19	-0.10	15.19
5,887.00	0.81	137.04	5,885.49	-70.55	92.75	88.98	0.29	0.27	8.34
5,979.00	1.35	117.86	5,977.48	-71.54	94.15	90.24	0.70	0.59	-20.85
6,162.00	1.02	127.25	6,160.44	-73.53	97.36	92.88	0.21	-0.18	5.13
6,253.00	0.85	129.74	6,251.43	-74.45	98.52	94.04	0.19	-0.19	2.74
6,343.00	0.78	123.99	6,341.42	-75.22	99.54	95.01	0.12	-0.08	-6.39
6,435.00	0.71	138.83	6,433.41	-76.00	100.43	95.96	0.22	-0.08	16.13
6,527.00	0.35	140.94	6,525.40	-76.65	100.99	96.72	0.39	-0.39	2.29
6,619.00	0.52	135.60	6,617.40	-77.16	101.46	97.32	0.19	0.18	-5.80
6,711.00	0.55	104.42	6,709.40	-77.57	102.18	97.88	0.31	0.03	-33.89
6,801.00	0.42	109.34	6,799.39	-77.79	102.91	98.25	0.15	-0.14	5.47
6,892.00	0.73	247.09	6,890.39	-78.12	102.69	98.53	1.19	0.34	151.37
6,983.00	1.09	259.13	6,981.38	-78.51	101.30	98.61	0.45	0.40	13.23
7,075.00	1.33	251.51	7,073.36	-79.02	99.43	98.69	0.31	0.26	-8.28
7,138.00	1.75	248.11	7,136.34	-79.61	97.84	98.92	0.68	0.67	-5.40
7,229.00	1.54	259.70	7,227.30	-80.34	95.35	99.10	0.43	-0.23	12.74
7,413.00	1.70	277.24	7,411.23	-80.44	90.21	98.08	0.28	0.09	9.53
7,596.00	1.85	217.27	7,594.15	-82.45	85.73	99.07	0.97	0.08	-32.77
7,779.00	1.69	260.01	7,777.07	-85.27	81.28	100.86	0.71	-0.09	23.36
7,963.00	1.50	264.28	7,961.00	-85.98	76.21	100.46	0.12	-0.10	2.32
8,147.00	1.38	274.85	8,144.95	-86.03	71.61	99.51	0.16	-0.07	5.74
8,330.00	2.17	286.77	8,327.86	-84.85	66.10	97.16	0.47	0.43	6.51
8,515.00	2.52	286.03	8,512.70	-82.71	58.83	93.50	0.19	0.19	-0.40
8,699.00	2.42	291.34	8,696.53	-80.18	51.33	89.40	0.14	-0.05	2.89
8,883.00	2.32	292.27	8,880.37	-77.36	44.26	85.11	0.06	-0.05	0.51
9,065.00	2.40	295.07	9,062.22	-74.35	37.40	80.69	0.08	0.04	1.54
9,248.00	2.32	294.16	9,245.06	-71.21	30.55	76.14	0.05	-0.04	-0.50
9,432.00	1.75	294.09	9,428.95	-68.54	24.59	72.24	0.31	-0.31	-0.04
9,614.00	1.97	298.35	9,610.85	-65.92	19.30	68.53	0.14	0.12	2.34
9,799.00	1.89	288.85	9,795.75	-63.42	13.61	64.86	0.18	-0.04	-5.14
9,983.00	1.75	286.38	9,979.65	-61.65	8.05	61.93	0.09	-0.08	-1.34
10,074.00	1.79	292.84	10,070.61	-60.70	5.40	60.43	0.22	0.04	7.10
10,166.00	1.91	299.94	10,162.56	-59.38	2.75	58.57	0.28	0.13	7.72
10,274.00	1.56	308.53	10,270.51	-57.57	0.04	56.21	0.40	-0.32	7.95

Company:	ELEVATION RESOURCES LLC	Local Co-ordinate Reference:	Well #3H
Project:	Andrews County, TX (NAD27)	TVD Reference:	3125+25 @ 3150.00ft (Trinidad 121)
Site:	University 1-27 S Unit #3H	MD Reference:	3125+25 @ 3150.00ft (Trinidad 121)
Well:	#3H	North Reference:	Grid
Wellbore:	Lateral	Survey Calculation Method:	Minimum Curvature
Design:	Lateral	Database:	VONEDM

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,381.00	1.41	298.64	10,377.48	-56.03	-2.25	54.21	0.28	-0.14	-9.24
10,472.00	1.36	299.07	10,468.45	-54.97	-4.18	52.75	0.06	-0.05	0.47
10,562.00	1.17	301.74	10,558.43	-53.97	-5.89	51.40	0.22	-0.21	2.97
10,654.00	0.86	277.45	10,650.41	-53.38	-7.38	50.51	0.57	-0.34	-26.40
10,701.00	2.81	170.44	10,697.40	-54.47	-7.54	51.54	6.74	4.15	-227.68
10,746.00	7.33	160.55	10,742.21	-58.27	-6.40	55.50	10.19	10.04	-21.98
10,792.00	11.75	157.80	10,787.56	-65.38	-3.65	63.03	9.66	9.61	-5.98
10,838.00	14.97	164.21	10,832.31	-75.43	-0.26	73.58	7.69	7.00	13.93
10,884.00	18.22	165.67	10,876.39	-88.12	3.14	86.71	7.12	7.07	3.17
10,930.00	21.50	164.53	10,919.65	-103.22	7.17	102.32	7.18	7.13	-2.48
10,976.00	27.23	162.92	10,961.54	-121.42	12.51	121.24	12.54	12.46	-3.50
11,022.00	34.67	162.82	11,000.96	-144.01	19.48	144.80	16.17	16.17	-0.22
11,068.00	42.39	162.90	11,036.92	-171.37	27.91	173.34	16.78	16.78	0.17
11,115.00	49.37	161.21	11,069.62	-203.44	38.33	206.91	15.07	14.85	-3.60
11,161.00	56.27	160.79	11,097.40	-238.07	50.26	243.30	15.02	15.00	-0.91
11,207.00	61.61	161.10	11,121.12	-275.30	63.12	282.44	11.62	11.61	0.67
11,253.00	68.02	161.56	11,140.69	-314.72	76.43	323.80	13.96	13.93	1.00
11,299.00	74.49	162.45	11,155.46	-356.13	89.88	367.14	14.18	14.07	1.93
11,391.00	84.98	165.24	11,171.84	-442.96	114.99	457.35	11.79	11.40	3.03
11,432.92	86.10	165.93	11,175.10	-483.43	125.39	499.12	3.13	2.67	1.65
University 1-27 3H T1									
11,437.72	86.23	166.01	11,175.42	-488.08	126.55	503.91	3.13	2.67	1.65
University 1-27 3H LP p4									
11,460.00	86.82	166.38	11,176.77	-509.68	131.86	526.14	3.13	2.67	1.65
11,555.00	87.98	166.68	11,181.08	-601.97	153.97	621.03	1.26	1.22	0.32
11,650.00	89.29	166.63	11,183.34	-694.38	175.89	715.99	1.38	1.38	-0.05
11,744.00	88.98	167.67	11,184.76	-786.01	196.79	809.98	1.15	-0.33	1.11
11,839.00	88.36	167.98	11,186.97	-878.85	216.82	904.95	0.73	-0.65	0.33
11,933.00	87.41	168.67	11,190.44	-970.84	235.83	998.87	1.25	-1.01	0.73
12,028.00	87.53	168.93	11,194.63	-1,063.94	254.26	1,093.76	0.30	0.13	0.27
12,122.00	88.41	169.18	11,197.96	-1,156.17	272.10	1,187.66	0.97	0.94	0.27
12,217.00	89.64	169.14	11,199.58	-1,249.46	289.96	1,282.60	1.30	1.29	-0.04
12,311.00	89.37	168.83	11,200.39	-1,341.72	307.92	1,376.57	0.44	-0.29	-0.33
12,406.00	88.96	168.93	11,201.77	-1,434.93	326.24	1,471.53	0.44	-0.43	0.11
12,500.00	89.10	168.22	11,203.36	-1,527.05	344.86	1,565.50	0.77	0.15	-0.76
12,595.00	90.55	168.20	11,203.65	-1,620.05	364.27	1,660.49	1.53	1.53	-0.02
12,689.00	90.30	167.63	11,202.96	-1,711.96	383.95	1,754.48	0.66	-0.27	-0.61
12,784.00	90.36	167.68	11,202.41	-1,804.76	404.26	1,849.48	0.08	0.06	0.05
12,878.00	91.65	167.79	11,200.76	-1,896.60	424.22	1,943.46	1.38	1.37	0.12
12,973.00	90.06	168.52	11,199.34	-1,989.56	443.72	2,038.44	1.84	-1.67	0.77
13,067.00	89.91	168.45	11,199.37	-2,081.67	462.49	2,132.43	0.18	-0.16	-0.07
13,162.00	90.00	168.30	11,199.44	-2,174.72	481.63	2,227.42	0.18	0.09	-0.16
13,257.00	89.64	168.11	11,199.74	-2,267.72	501.05	2,322.41	0.43	-0.38	-0.20
13,351.00	89.06	167.79	11,200.81	-2,359.64	520.67	2,416.40	0.70	-0.62	-0.34

Company:	ELEVATION RESOURCES LLC	Local Co-ordinate Reference:	Well #3H
Project:	Andrews County, TX (NAD27)	TVD Reference:	3125+25 @ 3150.00ft (Trinidad 121)
Site:	University 1-27 S Unit #3H	MD Reference:	3125+25 @ 3150.00ft (Trinidad 121)
Well:	#3H	North Reference:	Grid
Wellbore:	Lateral	Survey Calculation Method:	Minimum Curvature
Design:	Lateral	Database:	VONEDM

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
13,446.00	88.72	168.06	11,202.65	-2,452.52	540.54	2,511.38	0.46	-0.36	0.28
13,510.00	88.62	168.13	11,204.14	-2,515.12	553.74	2,575.36	0.19	-0.16	0.11
Wellpath Crosses Into Sec.34									
13,540.00	88.57	168.16	11,204.87	-2,544.48	559.90	2,605.34	0.19	-0.16	0.11
13,635.00	88.53	168.12	11,207.28	-2,637.42	579.42	2,700.31	0.06	-0.04	-0.04
13,729.00	87.94	167.77	11,210.17	-2,729.30	599.04	2,794.26	0.73	-0.63	-0.37
13,824.00	87.53	167.31	11,213.93	-2,821.99	619.52	2,889.19	0.65	-0.43	-0.48
13,918.00	87.41	167.31	11,218.07	-2,913.61	640.15	2,983.09	0.13	-0.13	0.00
13,938.32	87.61	167.35	11,218.96	-2,933.41	644.60	3,003.39	0.99	0.97	0.19
University 1-27 3H T2									
14,013.00	88.33	167.49	11,221.61	-3,006.25	660.86	3,078.03	0.99	0.97	0.19
14,107.00	87.76	167.43	11,224.81	-3,097.96	681.26	3,171.97	0.61	-0.61	-0.06
14,202.00	88.43	167.46	11,227.97	-3,190.63	701.90	3,266.92	0.71	0.71	0.03
14,296.00	88.15	166.58	11,230.78	-3,282.19	723.00	3,360.87	0.98	-0.30	-0.94
14,391.00	89.13	166.60	11,233.03	-3,374.57	745.03	3,455.83	1.03	1.03	0.02
14,485.00	88.68	166.93	11,234.83	-3,466.06	766.54	3,549.81	0.59	-0.48	0.35
14,579.00	88.81	166.58	11,236.89	-3,557.54	788.08	3,643.78	0.40	0.14	-0.37
14,673.00	87.55	166.24	11,239.87	-3,648.86	810.15	3,737.71	1.39	-1.34	-0.36
14,767.00	88.94	166.25	11,242.75	-3,740.11	832.49	3,831.64	1.48	1.48	0.01
14,862.00	88.74	166.67	11,244.67	-3,832.45	854.73	3,926.61	0.49	-0.21	0.44
14,956.00	88.12	166.79	11,247.25	-3,923.91	876.30	4,020.57	0.67	-0.66	0.13
15,050.00	88.17	167.68	11,250.29	-4,015.54	897.05	4,114.51	0.95	0.05	0.95
15,145.00	87.45	167.62	11,253.92	-4,108.27	917.36	4,209.44	0.76	-0.76	-0.06
15,239.00	86.78	167.09	11,258.65	-4,199.87	937.91	4,303.32	0.91	-0.71	-0.56
15,333.00	87.83	167.03	11,263.07	-4,291.38	958.94	4,397.22	1.12	1.12	-0.06
15,427.00	88.08	167.00	11,266.43	-4,382.92	980.04	4,491.15	0.27	0.27	-0.03
15,522.00	89.22	167.31	11,268.66	-4,475.52	1,001.16	4,586.12	1.24	1.20	0.33
15,616.00	89.63	167.24	11,269.61	-4,567.20	1,021.86	4,680.12	0.44	0.44	-0.07
15,726.00	88.86	167.50	11,271.06	-4,674.53	1,045.91	4,790.11	0.74	-0.70	0.24
15,823.00	89.19	167.70	11,272.71	-4,769.26	1,066.74	4,887.09	0.40	0.34	0.21
15,918.00	87.14	168.56	11,275.75	-4,862.17	1,086.27	4,982.03	2.34	-2.16	0.91
16,013.00	86.95	169.00	11,280.65	-4,955.23	1,104.73	5,076.88	0.50	-0.20	0.46
16,107.00	87.26	169.24	11,285.39	-5,047.42	1,122.45	5,170.72	0.42	0.33	0.26
16,142.36	87.38	169.32	11,287.05	-5,082.12	1,129.02	5,206.02	0.42	0.35	0.23
University 1-27 3H T3									
16,201.00	87.59	169.46	11,289.62	-5,139.71	1,139.80	5,264.58	0.42	0.35	0.23
16,296.00	86.67	169.04	11,294.37	-5,232.92	1,157.50	5,359.41	1.06	-0.97	-0.44
16,391.00	86.78	169.24	11,299.80	-5,326.07	1,175.37	5,454.22	0.24	0.12	0.21
16,485.00	87.17	169.62	11,304.76	-5,418.35	1,192.59	5,548.03	0.58	0.41	0.40
16,580.00	87.57	169.52	11,309.12	-5,511.68	1,209.77	5,642.87	0.43	0.42	-0.11
16,674.00	86.89	168.36	11,313.66	-5,603.82	1,227.78	5,736.72	1.43	-0.72	-1.23
16,769.00	87.01	168.50	11,318.72	-5,696.76	1,246.81	5,831.58	0.19	0.13	0.15
16,863.00	87.23	168.46	11,323.44	-5,788.75	1,265.55	5,925.44	0.24	0.23	-0.04

Company:	ELEVATION RESOURCES LLC	Local Co-ordinate Reference:	Well #3H
Project:	Andrews County, TX (NAD27)	TVD Reference:	3125+25 @ 3150.00ft (Trinidad 121)
Site:	University 1-27 S Unit #3H	MD Reference:	3125+25 @ 3150.00ft (Trinidad 121)
Well:	#3H	North Reference:	Grid
Wellbore:	Lateral	Survey Calculation Method:	Minimum Curvature
Design:	Lateral	Database:	VONEDM

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
16,957.00	87.29	168.78	11,327.94	-5,880.80	1,284.08	6,019.32	0.35	0.06	0.34	
17,051.00	87.82	168.75	11,331.95	-5,972.91	1,302.38	6,113.21	0.56	0.56	-0.03	
17,146.00	86.56	167.57	11,336.60	-6,065.77	1,321.85	6,208.08	1.82	-1.33	-1.24	
17,240.00	86.50	167.86	11,342.29	-6,157.45	1,341.81	6,301.91	0.31	-0.06	0.31	
17,335.00	86.36	168.07	11,348.21	-6,250.19	1,361.58	6,396.72	0.27	-0.15	0.22	
17,429.00	86.39	168.32	11,354.15	-6,342.01	1,380.77	6,490.53	0.27	0.03	0.27	
17,524.00	86.98	167.68	11,359.64	-6,434.78	1,400.49	6,585.36	0.92	0.62	-0.67	
17,618.00	87.71	167.50	11,364.00	-6,526.49	1,420.67	6,679.26	0.80	0.78	-0.19	
17,712.00	88.71	167.50	11,366.93	-6,618.21	1,441.01	6,773.21	1.06	1.06	0.00	
17,807.00	88.01	166.53	11,369.65	-6,710.74	1,462.34	6,868.17	1.26	-0.74	-1.02	
17,901.00	88.49	166.58	11,372.52	-6,802.12	1,484.19	6,962.11	0.51	0.51	0.05	
17,996.00	87.57	166.09	11,375.79	-6,894.38	1,506.62	7,057.04	1.10	-0.97	-0.52	
18,090.00	88.15	165.94	11,379.30	-6,985.53	1,529.32	7,150.94	0.64	0.62	-0.16	
18,185.00	88.32	166.55	11,382.23	-7,077.76	1,551.90	7,245.87	0.67	0.18	0.64	
18,279.00	88.54	166.58	11,384.80	-7,169.15	1,573.73	7,339.83	0.24	0.23	0.03	
18,374.00	88.68	166.90	11,387.11	-7,261.59	1,595.51	7,434.79	0.37	0.15	0.34	
18,468.00	89.69	166.85	11,388.44	-7,353.13	1,616.85	7,528.77	1.08	1.07	-0.05	
18,562.00	89.94	166.99	11,388.75	-7,444.69	1,638.13	7,622.77	0.30	0.27	0.15	
18,657.00	90.20	167.22	11,388.63	-7,537.29	1,659.33	7,717.77	0.37	0.27	0.24	
18,677.00	90.36	167.30	11,388.53	-7,556.80	1,663.74	7,737.77	0.89	0.80	0.40	
18,726.99	90.36	167.30	11,388.22	-7,605.56	1,674.73	7,787.75	0.00	0.00	0.00	
University 1-27 3H PBHL p3										
18,730.00	90.36	167.30	11,388.20	-7,608.50	1,675.39	7,790.77	0.00	0.00	0.00	
TD @ 97.5'FSL, 212.6'FEL										

Design Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
13,510.00	11,204.14	-2,515.12	553.74	Wellpath Crosses Into Sec.34	
18,730.00	11,388.20	-7,608.50	1,675.39	TD @ 97.5'FSL, 212.6'FEL	

Checked By: _____ Approved By: _____ Date: _____