

Regulatory Report (Grid North)

Company:	Pioneer Natural Resources	Local Co-ordinate Reference:	Well #22H
Project:	Andrews County, TX (NAD 27 TC)	TVD Reference:	KB= 26' @ 2978.0usft (H&P 637)
Site:	Universtiy 7-43	MD Reference:	KB= 26' @ 2978.0usft (H&P 637)
Well:	#22H	North Reference:	Grid
Wellbore:	OH - Job #321214-MPH-1440	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	MID_Regulatory

Project	Andrews County, TX (NAD 27 TC)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Texas Central 4203		

Site		Universtiy 7-43			
Site Position:		Northing:	982,143.61 usft	Latitude:	32° 21' 10.084 N
From:	Map	Easting:	1,405,965.42 usft	Longitude:	102° 15' 23.840 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-0.99 °

Well	#22H					
Well Position	+N/-S	0.0 usft	Northing:	982,786.66 usft	Latitude:	32° 21' 16.742 N
	+E/-W	0.0 usft	Easting:	1,407,706.59 usft	Longitude:	102° 15' 3.679 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	2,952.0 usft

Wellbore	OH - Job #321214-MPH-1440				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2012	11/12/2014	6.64	60.39	48,437

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	165.89	

Survey Program	Date	3/8/2015			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
237.0	19,441.0	SDI MWD #1 (OH - Job #321214-MPH-14	SDI MWD	SDI MWD - Standard ver 1.0.1	

Survey								
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Azimuth (°)	Closure Distance (usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.0	
237.0	1.24	306.02	237.0	1.5	-2.1	306.02	2.6	
395.0	0.52	311.11	395.0	3.0	-4.0	306.75	5.0	
580.0	0.51	242.98	580.0	3.2	-5.4	300.53	6.2	
765.0	0.54	226.76	764.9	2.2	-6.7	288.03	7.1	
950.0	0.56	172.37	949.9	0.7	-7.2	275.50	7.3	
1,140.0	0.62	165.71	1,139.9	-1.2	-6.9	259.94	7.0	
1,329.0	1.08	163.48	1,328.9	-3.9	-6.1	237.34	7.3	
1,518.0	1.92	161.95	1,517.8	-8.6	-4.6	208.17	9.8	
1,708.0	2.48	166.45	1,707.7	-15.7	-2.7	189.69	15.9	
1,801.0	2.86	165.05	1,800.6	-19.9	-1.6	184.62	19.9	
1,900.0	3.15	164.03	1,899.5	-24.9	-0.2	180.50	24.9	

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Design:	OH	Database:	MID_Regulatory

Survey								
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Azimuth (°)	Closure Distance (usft)	
2,089.0	1.21	118.37	2,088.3	-30.8	3.0	174.50	30.9	
2,278.0	1.35	119.78	2,277.3	-32.9	6.7	168.55	33.5	
2,467.0	1.11	121.06	2,466.2	-34.9	10.2	163.78	36.3	
2,657.0	1.34	119.28	2,656.2	-36.9	13.7	159.69	39.4	
2,846.0	1.34	131.16	2,845.1	-39.5	17.3	156.38	43.1	
3,035.0	1.49	131.39	3,034.1	-42.6	20.8	153.98	47.4	
3,225.0	1.75	129.05	3,224.0	-46.0	24.9	151.60	52.3	
3,414.0	1.65	141.81	3,412.9	-50.0	28.8	150.05	57.7	
3,603.0	0.77	137.10	3,601.9	-53.0	31.3	149.42	61.6	
3,793.0	1.15	136.07	3,791.9	-55.3	33.5	148.79	64.7	
3,982.0	1.27	118.77	3,980.8	-57.7	36.7	147.56	68.4	
4,172.0	1.22	118.52	4,170.8	-59.7	40.3	145.97	72.0	
4,361.0	1.29	111.80	4,359.7	-61.5	44.1	144.36	75.6	
4,550.0	1.41	107.53	4,548.7	-62.9	48.2	142.53	79.3	
4,739.0	1.42	116.90	4,737.6	-64.7	52.6	140.92	83.4	
4,929.0	1.53	120.41	4,927.6	-67.1	56.8	139.71	87.9	
5,118.0	1.53	120.71	5,116.5	-69.6	61.2	138.69	92.7	
5,307.0	1.78	122.89	5,305.4	-72.5	65.8	137.76	97.9	
5,497.0	0.74	24.02	5,495.4	-73.0	68.8	136.69	100.3	
5,686.0	0.88	4.09	5,684.4	-70.4	69.4	135.42	98.9	
5,875.0	0.99	12.73	5,873.3	-67.4	69.9	133.96	97.1	
6,065.0	1.60	339.07	6,063.3	-63.3	69.3	132.42	93.8	
6,254.0	1.49	341.76	6,252.2	-58.5	67.6	130.89	89.4	
6,443.0	1.51	348.94	6,441.1	-53.7	66.3	129.01	85.3	
6,633.0	1.71	330.10	6,631.1	-48.8	64.4	127.15	80.8	
6,822.0	2.07	336.44	6,820.0	-43.2	61.7	125.04	75.3	
7,011.0	1.97	280.18	7,008.9	-39.5	57.1	124.70	69.4	
7,200.0	0.17	272.96	7,197.8	-38.9	53.6	125.99	66.3	
7,389.0	0.09	296.01	7,386.8	-38.9	53.2	126.15	65.9	
7,579.0	0.34	227.40	7,576.8	-39.2	52.7	126.66	65.6	
7,768.0	0.54	219.13	7,765.8	-40.3	51.7	127.92	65.5	
7,957.0	0.60	228.03	7,954.8	-41.6	50.4	129.55	65.3	
8,076.0	0.66	187.40	8,073.8	-42.7	49.8	130.60	65.6	
8,156.0	0.68	170.52	8,153.8	-43.6	49.8	131.19	66.2	
8,188.0	0.61	172.47	8,185.8	-44.0	49.9	131.39	66.5	
8,219.0	2.22	181.24	8,216.8	-44.7	49.9	131.88	67.0	
8,251.0	5.07	180.16	8,248.7	-46.8	49.9	133.16	68.4	
8,283.0	6.89	178.49	8,280.5	-50.1	49.9	135.10	70.7	
8,314.0	8.47	175.93	8,311.3	-54.2	50.1	137.25	73.9	
8,346.0	10.76	176.62	8,342.8	-59.6	50.5	139.72	78.1	
8,377.0	12.88	177.24	8,373.2	-65.9	50.8	142.37	83.2	
8,409.0	15.12	177.43	8,404.2	-73.7	51.2	145.20	89.7	
8,440.0	17.95	178.23	8,433.9	-82.5	51.5	148.01	97.2	
8,472.0	21.03	177.25	8,464.1	-93.1	51.9	150.85	106.6	

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Wellbore:	OH - Job #321214-MPH-1440	Survey Calculation Method:	Minimum Curvature
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Survey								
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Azimuth (°)	Closure Distance (usft)	
8,504.0	23.80	174.75	8,493.7	-105.3	52.8	153.37	117.8	
8,535.0	26.10	175.35	8,521.8	-118.3	53.9	155.50	130.0	
8,567.0	28.39	176.65	8,550.2	-132.9	55.0	157.54	143.9	
8,598.0	30.22	176.30	8,577.2	-148.1	55.9	159.32	158.3	
8,630.0	31.34	177.75	8,604.7	-164.4	56.7	160.97	174.0	
8,661.0	32.42	178.40	8,631.1	-180.8	57.3	162.42	189.7	
8,693.0	32.65	178.45	8,658.0	-198.0	57.8	163.74	206.3	
8,725.0	34.02	177.86	8,684.8	-215.6	58.3	164.86	223.3	
8,756.0	35.62	177.69	8,710.2	-233.3	59.0	165.80	240.6	
8,788.0	37.45	177.15	8,735.9	-252.3	59.9	166.65	259.3	
8,819.0	39.60	177.80	8,760.2	-271.6	60.7	167.40	278.3	
8,851.0	41.43	177.46	8,784.5	-292.4	61.6	168.11	298.8	
8,882.0	44.59	177.20	8,807.2	-313.5	62.6	168.71	319.7	
8,914.0	47.81	175.89	8,829.3	-336.5	64.0	169.24	342.6	
8,946.0	51.19	173.76	8,850.1	-360.8	66.2	169.61	366.8	
8,977.0	54.84	171.63	8,868.8	-385.3	69.3	169.80	391.5	
9,009.0	59.02	169.56	8,886.2	-411.8	73.7	169.85	418.3	
9,040.0	63.29	168.65	8,901.2	-438.4	78.9	169.80	445.4	
9,072.0	68.46	167.31	8,914.2	-467.0	84.9	169.69	474.6	
9,103.0	73.33	166.18	8,924.4	-495.5	91.7	169.52	503.9	
9,133.0	77.85	164.01	8,931.8	-523.5	99.1	169.28	532.8	
9,165.0	81.81	163.87	8,937.5	-553.8	107.8	168.98	564.2	
9,196.0	83.34	163.71	8,941.5	-583.3	116.4	168.71	594.8	
9,228.0	84.58	163.42	8,944.9	-613.8	125.4	168.45	626.5	
9,323.0	85.76	163.42	8,952.9	-704.6	152.4	167.79	720.9	
9,417.0	86.38	162.61	8,959.3	-794.2	179.8	167.24	814.4	
9,512.0	87.31	162.16	8,964.5	-884.7	208.5	166.74	908.9	
9,607.0	88.28	161.28	8,968.2	-974.8	238.3	166.26	1,003.5	
9,702.0	89.53	160.63	8,970.0	-1,064.6	269.3	165.80	1,098.1	
9,796.0	89.80	162.66	8,970.6	-1,153.8	298.9	165.48	1,191.9	
9,891.0	87.98	164.29	8,972.4	-1,244.8	325.9	165.33	1,286.8	
9,986.0	87.68	167.23	8,976.0	-1,336.8	349.3	165.36	1,381.7	
10,080.0	88.73	166.32	8,978.9	-1,428.3	370.8	165.45	1,475.6	
10,175.0	88.15	167.97	8,981.5	-1,520.9	391.9	165.55	1,570.6	
10,270.0	89.56	168.37	8,983.4	-1,613.8	411.4	165.70	1,665.4	
10,365.0	91.14	168.30	8,982.8	-1,706.9	430.6	165.84	1,760.3	
10,460.0	92.39	168.08	8,979.9	-1,799.8	450.0	165.96	1,855.2	
10,554.0	91.18	169.01	8,977.0	-1,891.9	468.7	166.09	1,949.1	
10,649.0	91.78	168.18	8,974.5	-1,985.0	487.4	166.20	2,044.0	
10,744.0	92.05	166.87	8,971.4	-2,077.7	508.0	166.26	2,138.9	
10,838.0	89.53	166.19	8,970.1	-2,169.1	529.8	166.27	2,232.9	
10,933.0	90.60	166.04	8,970.0	-2,261.3	552.6	166.27	2,327.9	
11,028.0	92.02	165.60	8,967.8	-2,353.4	575.9	166.25	2,422.8	
11,123.0	90.10	166.10	8,966.0	-2,445.5	599.1	166.23	2,517.8	

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Well:	#22H	North Reference:	Grid
Wellbore:	OH - Job #321214-MPH-1440	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	MID_Regulatory

Survey								
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Azimuth (°)	Closure Distance (usft)	
11,217.0	89.50	167.54	8,966.4	-2,537.0	620.6	166.26	2,611.8	
11,312.0	91.04	167.81	8,965.9	-2,629.8	640.8	166.30	2,706.8	
11,406.0	89.16	167.18	8,965.7	-2,721.6	661.2	166.34	2,800.7	
11,499.0	87.58	167.30	8,968.4	-2,812.2	681.7	166.37	2,893.7	
11,591.0	87.49	167.12	8,972.4	-2,901.9	702.1	166.40	2,985.6	
11,684.0	88.53	166.48	8,975.6	-2,992.4	723.3	166.41	3,078.5	
11,776.0	88.79	165.10	8,977.7	-3,081.5	745.9	166.39	3,170.5	
11,869.0	90.94	164.75	8,978.0	-3,171.3	770.1	166.35	3,263.5	
11,961.0	92.12	164.25	8,975.5	-3,259.9	794.6	166.30	3,355.4	
12,054.0	88.05	162.91	8,975.4	-3,349.1	820.9	166.23	3,448.3	
12,148.0	87.98	166.02	8,978.6	-3,439.6	846.1	166.18	3,542.2	
12,243.0	89.80	167.16	8,980.5	-3,532.0	868.1	166.19	3,637.1	
12,338.0	89.50	164.48	8,981.0	-3,624.1	891.4	166.18	3,732.1	
12,432.0	90.03	167.77	8,981.4	-3,715.4	913.9	166.18	3,826.1	
12,527.0	92.15	168.95	8,979.6	-3,808.4	933.1	166.23	3,921.0	
12,622.0	90.55	168.79	8,977.4	-3,901.6	951.4	166.30	4,015.9	
12,717.0	91.38	167.96	8,975.8	-3,994.6	970.5	166.34	4,110.8	
12,811.0	89.76	168.21	8,974.8	-4,086.6	989.9	166.38	4,204.8	
12,906.0	92.69	168.30	8,972.8	-4,179.5	1,009.3	166.42	4,299.7	
13,001.0	90.07	168.63	8,970.5	-4,272.6	1,028.3	166.47	4,394.6	
13,096.0	88.99	166.87	8,971.3	-4,365.4	1,048.4	166.50	4,489.5	
13,190.0	89.50	166.05	8,972.5	-4,456.8	1,070.4	166.49	4,583.5	
13,285.0	89.09	164.72	8,973.7	-4,548.7	1,094.4	166.47	4,678.5	
13,380.0	89.63	163.87	8,974.8	-4,640.2	1,120.1	166.43	4,773.4	
13,474.0	90.17	162.59	8,974.9	-4,730.2	1,147.2	166.37	4,867.3	
13,569.0	89.83	164.52	8,974.9	-4,821.3	1,174.1	166.31	4,962.2	
13,663.0	89.06	166.40	8,975.8	-4,912.2	1,197.7	166.30	5,056.2	
13,758.0	90.17	165.54	8,976.5	-5,004.4	1,220.8	166.29	5,151.1	
13,853.0	88.22	166.08	8,977.8	-5,096.5	1,244.0	166.28	5,246.1	
13,947.0	88.55	164.60	8,980.5	-5,187.4	1,267.8	166.27	5,340.1	
14,042.0	88.08	166.57	8,983.3	-5,279.4	1,291.5	166.25	5,435.0	
14,136.0	89.83	167.30	8,985.0	-5,370.9	1,312.7	166.27	5,529.0	
14,231.0	91.07	165.79	8,984.2	-5,463.3	1,334.8	166.27	5,624.0	
14,326.0	91.24	164.66	8,982.3	-5,555.1	1,359.0	166.25	5,719.0	
14,421.0	92.09	166.93	8,979.6	-5,647.2	1,382.3	166.25	5,813.9	
14,515.0	92.08	165.74	8,976.1	-5,738.5	1,404.5	166.25	5,907.8	
14,610.0	90.30	167.39	8,974.2	-5,830.8	1,426.6	166.25	6,002.8	
14,705.0	92.45	168.42	8,971.9	-5,923.7	1,446.5	166.28	6,097.7	
14,800.0	90.67	166.69	8,969.3	-6,016.4	1,466.9	166.30	6,192.7	
14,895.0	91.35	166.16	8,967.6	-6,108.7	1,489.2	166.30	6,287.7	
14,990.0	91.04	164.77	8,965.6	-6,200.7	1,513.1	166.29	6,382.6	
15,085.0	91.75	163.60	8,963.3	-6,292.1	1,539.0	166.26	6,477.5	
15,179.0	89.16	160.15	8,962.6	-6,381.4	1,568.2	166.19	6,571.2	
15,274.0	89.97	163.15	8,963.3	-6,471.5	1,598.1	166.13	6,665.9	
15,369.0	90.44	164.55	8,963.0	-6,562.8	1,624.5	166.10	6,760.8	

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Wellbore:	OH - Job #321214-MPH-1440	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	MID_Regulatory

Survey								
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Azimuth (°)	Closure Distance (usft)	
15,464.0	89.33	165.62	8,963.2	-6,654.6	1,649.0	166.08	6,855.8	
15,559.0	89.50	167.09	8,964.1	-6,746.9	1,671.4	166.09	6,950.8	
15,653.0	90.57	166.43	8,964.1	-6,838.4	1,692.9	166.10	7,044.8	
15,748.0	91.74	165.98	8,962.1	-6,930.6	1,715.6	166.10	7,139.8	
15,843.0	93.13	164.54	8,958.1	-7,022.4	1,739.7	166.09	7,234.7	
15,938.0	91.31	163.62	8,954.4	-7,113.7	1,765.7	166.06	7,329.6	
16,032.0	89.80	165.09	8,953.5	-7,204.2	1,791.1	166.04	7,423.5	
16,127.0	90.81	164.35	8,953.0	-7,295.8	1,816.1	166.02	7,518.5	
16,222.0	92.09	163.10	8,950.6	-7,387.0	1,842.7	165.99	7,613.4	
16,317.0	91.48	162.61	8,947.7	-7,477.7	1,870.7	165.95	7,708.2	
16,411.0	91.48	164.70	8,945.2	-7,567.9	1,897.2	165.93	7,802.1	
16,506.0	90.67	166.06	8,943.4	-7,659.8	1,921.1	165.92	7,897.0	
16,601.0	91.61	168.78	8,941.6	-7,752.5	1,941.8	165.94	7,992.0	
16,695.0	89.13	169.61	8,940.9	-7,844.8	1,959.5	165.98	8,085.8	
16,790.0	93.29	170.96	8,938.9	-7,938.4	1,975.5	166.03	8,180.5	
16,884.0	92.75	173.47	8,934.0	-8,031.4	1,988.2	166.10	8,273.8	
16,979.0	91.01	173.57	8,930.9	-8,125.7	1,998.9	166.18	8,368.0	
17,075.0	89.46	172.43	8,930.5	-8,221.0	2,010.6	166.26	8,463.3	
17,169.0	89.90	167.99	8,931.0	-8,313.6	2,026.6	166.30	8,557.1	
17,264.0	90.27	167.65	8,930.9	-8,406.5	2,046.6	166.32	8,652.0	
17,359.0	90.34	166.88	8,930.4	-8,499.2	2,067.6	166.33	8,747.0	
17,453.0	90.67	166.07	8,929.5	-8,590.5	2,089.6	166.33	8,841.0	
17,548.0	91.31	166.39	8,927.9	-8,682.8	2,112.2	166.33	8,936.0	
17,643.0	89.83	164.76	8,926.9	-8,774.8	2,135.8	166.32	9,031.0	
17,737.0	90.44	164.48	8,926.7	-8,865.4	2,160.8	166.30	9,124.9	
17,832.0	91.55	165.00	8,925.1	-8,957.1	2,185.8	166.29	9,219.9	
17,927.0	90.50	164.30	8,923.4	-9,048.7	2,210.9	166.27	9,314.8	
18,021.0	89.97	164.30	8,923.0	-9,139.1	2,236.3	166.25	9,408.8	
18,116.0	91.89	164.06	8,921.4	-9,230.5	2,262.2	166.23	9,503.7	
18,211.0	92.12	164.11	8,918.1	-9,321.8	2,288.3	166.21	9,598.6	
18,306.0	89.09	164.95	8,917.1	-9,413.4	2,313.6	166.19	9,693.5	
18,400.0	87.01	165.67	8,920.3	-9,504.2	2,337.4	166.18	9,787.4	
18,495.0	87.01	164.35	8,925.3	-9,595.9	2,362.0	166.17	9,882.3	
18,590.0	87.69	163.62	8,929.7	-9,687.1	2,388.1	166.15	9,977.1	
18,684.0	87.58	162.92	8,933.5	-9,777.0	2,415.2	166.12	10,070.9	
18,779.0	88.39	162.20	8,936.9	-9,867.6	2,443.6	166.09	10,165.7	
18,874.0	90.64	161.12	8,937.7	-9,957.8	2,473.5	166.05	10,260.4	
18,969.0	92.39	160.83	8,935.2	-10,047.6	2,504.5	166.00	10,355.0	
19,063.0	91.01	160.90	8,932.4	-10,136.3	2,535.3	165.96	10,448.6	
19,158.0	89.06	160.95	8,932.3	-10,226.1	2,566.3	165.91	10,543.2	
19,253.0	88.49	161.67	8,934.4	-10,316.1	2,596.8	165.87	10,637.9	
19,348.0	89.33	160.03	8,936.2	-10,405.8	2,627.9	165.83	10,732.5	
19,384.0	89.50	159.67	8,936.5	-10,439.6	2,640.3	165.81	10,768.3	
Final MWD Survey								

Regulatory Report (Grid North)

Company:	Pioneer Natural Resources	Local Co-ordinate Reference:	Well #22H
Project:	Andrews County, TX (NAD 27 TC)	TVD Reference:	KB= 26' @ 2978.0usft (H&P 637)
Site:	Universtiy 7-43	MD Reference:	KB= 26' @ 2978.0usft (H&P 637)
Well:	#22H	North Reference:	Grid
Wellbore:	OH - Job #321214-MPH-1440	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	MID_Regulatory

Survey							
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Azimuth (°)	Closure Distance (usft)
19,441.0	89.50	159.67	8,937.0	-10,493.0	2,660.1	165.77	10,825.0
Final Projection to Bit							

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
19,384.0	8,936.5	-10,439.6	2,640.3	Final MWD Survey
19,441.0	8,937.0	-10,493.0	2,660.1	Final Projection to Bit

Checked By: _____ Approved By: _____ Date: _____