

**Pioneer Natural Resources
University 1-21 3H
Reagan County, TX
Patterson 230
API# 42-383-38076**

**April 13, 2013 – May 12, 2013
HD-MJ-0900344979**

**Sperry Drilling
MWD Survey Report**

Submitted by Scott Immekus
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Houston, TX 77032
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HALLIBURTON

**Drilling and Formation
Evaluation**

Survey Report for Pioneer Natural Resources

Rig	:	Patterson 230
Well Name	:	University 1-21 3H
Field Name	:	Spraberry (Trend Area)
Country	:	USA
Job Number	:	HD-XX-0900344979
Job Start Date	:	13-Apr-13
API Number	:	42-383-38076

DIRECTIONAL SURVEY DATA

Tie-in

0.00

0.00

0.00

0.00

0.00 N

0.00 E

Measured Depth (ft)	Inclination (deg)	Direction (deg)	Vertical Depth (ft)	Latitude (ft)	Departure (ft)	Vertical Section (ft)	Dogleg (°/100')
100.00	0.31	332.60	100.00	0.24 N	0.12 W	0.24	0.31
200.00	0.34	326.31	200.00	0.73 N	0.41 W	0.72	0.05
300.00	0.36	346.49	300.00	1.28 N	0.65 W	1.27	0.12
400.00	0.55	315.91	399.99	1.93 N	1.06 W	1.91	0.30
500.00	0.55	335.91	499.99	2.71 N	1.59 W	2.68	0.19
600.00	0.82	326.75	599.98	3.75 N	2.18 W	3.70	0.29
700.00	0.56	334.55	699.97	4.79 N	2.78 W	4.73	0.28
770.00	0.25	335.76	769.97	5.24 N	2.99 W	5.17	0.44
827.00	0.17	314.26	826.97	5.41 N	3.10 W	5.34	0.19
984.00	2.95	146.08	983.91	2.22 N	1.02 W	2.20	1.98
1079.00	3.63	141.72	1,078.75	2.16 S	2.21 E	-2.12	0.77
1174.00	4.37	127.95	1,173.52	6.75 S	6.93 E	-6.61	1.27
1269.00	4.18	124.01	1,268.26	10.91 S	12.65 E	-10.65	0.37
1365.00	4.35	120.15	1,363.99	14.70 S	18.70 E	-14.31	0.35
1460.00	4.79	127.50	1,458.69	18.92 S	24.96 E	-18.40	0.77
1556.00	5.07	133.65	1,554.33	24.29 S	31.21 E	-23.65	0.62
1651.00	5.41	133.79	1,648.94	30.29 S	37.48 E	-29.51	0.36
1746.00	4.44	134.12	1,743.59	35.95 S	43.35 E	-35.04	1.02
1841.00	4.79	134.88	1,838.28	41.30 S	48.80 E	-40.29	0.37
1937.00	5.28	132.54	1,933.91	47.11 S	54.89 E	-45.97	0.55
2033.00	4.99	127.99	2,029.52	52.67 S	61.43 E	-51.39	0.52
2128.00	4.12	117.23	2,124.22	56.77 S	67.72 E	-55.36	1.29
2223.00	3.67	123.02	2,219.00	59.99 S	73.31 E	-58.47	0.62
2319.00	3.95	137.79	2,314.79	64.11 S	78.11 E	-62.49	1.06
2414.00	4.36	140.13	2,409.54	69.31 S	82.62 E	-67.59	0.46
2510.00	4.67	139.00	2,505.25	75.05 S	87.52 E	-73.24	0.34
2606.00	5.07	140.09	2,600.90	81.26 S	92.81 E	-79.33	0.43
2701.00	4.27	140.00	2,695.58	87.19 S	97.77 E	-85.15	0.84
2797.00	4.14	140.14	2,791.33	92.58 S	102.29 E	-90.46	0.13
2892.00	4.36	138.89	2,886.06	97.94 S	106.86 E	-95.71	0.25
2988.00	4.31	138.28	2,981.79	103.38 S	111.66 E	-101.06	0.07
3083.00	3.96	135.64	3,076.54	108.39 S	116.33 E	-105.97	0.42
3178.00	3.72	137.27	3,171.33	112.99 S	120.71 E	-110.48	0.27
3273.00	3.80	131.63	3,266.13	117.35 S	125.16 E	-114.75	0.40
3369.00	4.11	133.20	3,361.90	121.82 S	130.04 E	-119.11	0.34
3464.00	4.47	131.65	3,456.63	126.60 S	135.29 E	-123.79	0.40
3560.00	4.27	131.29	3,552.35	131.45 S	140.76 E	-128.52	0.21
3655.00	4.18	133.08	3,647.09	136.14 S	145.95 E	-133.11	0.17
3751.00	4.12	131.86	3,742.84	140.83 S	151.07 E	-137.69	0.11
3846.00	3.81	132.90	3,837.62	145.25 S	155.92 E	-142.01	0.33
3941.00	3.46	128.32	3,932.42	149.18 S	160.48 E	-145.84	0.48

DIRECTIONAL SURVEY DATA

Measured Depth (ft)	Inclination (deg)	Direction (deg)	Vertical Depth (ft)	Latitude (ft)	Departure (ft)	Vertical Section (ft)	Dogleg (°/100')
4036.00	3.92	131.90	4,027.23	153.12 S	165.14 E	-149.69	0.55
4131.00	3.51	128.49	4,122.03	157.10 S	169.84 E	-153.57	0.49
4226.00	3.88	134.85	4,216.83	161.18 S	174.40 E	-157.56	0.58
4322.00	3.83	137.05	4,312.61	165.82 S	178.89 E	-162.10	0.16
4417.00	4.02	131.85	4,407.39	170.37 S	183.53 E	-166.55	0.42
4512.00	4.36	128.38	4,502.14	174.83 S	188.84 E	-170.91	0.44
4608.00	4.16	121.42	4,597.87	178.91 S	194.67 E	-174.86	0.58
4703.00	4.25	125.92	4,692.62	182.77 S	200.46 E	-178.60	0.36
4798.00	4.38	126.46	4,787.35	186.99 S	206.23 E	-182.71	0.14
4894.00	3.73	122.09	4,883.11	190.83 S	211.82 E	-186.43	0.76
4989.00	3.76	124.16	4,977.90	194.22 S	217.01 E	-189.71	0.15
5084.00	4.00	128.10	5,072.69	198.01 S	222.20 E	-193.39	0.38
5179.00	3.57	123.28	5,167.48	201.68 S	227.28 E	-196.96	0.57
5275.00	4.05	121.62	5,263.27	205.10 S	232.67 E	-200.26	0.52
5370.00	4.76	111.25	5,357.99	208.29 S	239.20 E	-203.32	1.12
5466.00	4.68	120.75	5,453.66	211.73 S	246.28 E	-206.62	0.82
5562.00	4.41	120.08	5,549.36	215.59 S	252.85 E	-210.34	0.29
5657.00	4.45	124.80	5,644.08	219.52 S	259.03 E	-214.14	0.39
5752.00	3.86	128.21	5,738.83	223.60 S	264.57 E	-218.11	0.67
5847.00	3.51	120.18	5,833.63	227.05 S	269.60 E	-221.45	0.66
5943.00	3.87	115.37	5,929.43	229.92 S	275.07 E	-224.20	0.49
6038.00	4.03	128.17	6,024.21	233.35 S	280.60 E	-227.52	0.94
6134.00	4.10	143.85	6,119.97	238.21 S	285.27 E	-232.28	1.16
6229.00	4.12	142.04	6,214.72	243.64 S	289.37 E	-237.63	0.14
6324.00	3.59	132.20	6,309.51	248.33 S	293.68 E	-242.23	0.89
6420.00	3.16	119.80	6,405.34	251.66 S	298.20 E	-245.47	0.88
6515.00	3.45	126.15	6,500.19	254.65 S	302.78 E	-248.36	0.49
6611.00	3.60	132.10	6,596.00	258.38 S	307.35 E	-251.99	0.41
6706.00	3.79	126.26	6,690.81	262.23 S	312.10 E	-255.75	0.44
6802.00	3.49	129.35	6,786.61	265.96 S	316.92 E	-259.38	0.37
6897.00	3.40	118.46	6,881.44	269.14 S	321.63 E	-262.46	0.69
6992.00	3.30	114.43	6,976.28	271.61 S	326.60 E	-264.83	0.27
7087.00	2.73	113.04	7,071.15	273.63 S	331.17 E	-266.75	0.60
7132.00	2.61	115.90	7,116.10	274.50 S	333.08 E	-267.58	0.41
7164.00	2.55	114.38	7,148.07	275.11 S	334.38 E	-268.16	0.29
7196.00	2.53	114.04	7,180.04	275.69 S	335.68 E	-268.72	0.07
7228.00	2.20	85.61	7,212.01	275.93 S	336.93 E	-268.93	3.77
7260.00	3.96	30.95	7,243.97	274.94 S	338.11 E	-267.92	10.08
7292.00	7.14	12.20	7,275.82	272.05 S	339.10 E	-265.01	11.33
7323.00	11.87	5.11	7,306.38	266.99 S	339.79 E	-259.93	15.67
7355.00	15.82	4.40	7,337.45	259.36 S	340.42 E	-252.29	12.37
7387.00	19.18	3.15	7,367.96	249.76 S	341.04 E	-242.68	10.56
7418.00	23.64	359.83	7,396.82	238.45 S	341.31 E	-231.37	14.92
7450.00	27.07	358.43	7,425.73	224.75 S	341.09 E	-217.68	10.87
7481.00	30.81	357.17	7,452.86	209.77 S	340.50 E	-202.71	12.22

DIRECTIONAL SURVEY DATA

Measured Depth (ft)	Inclination (deg)	Direction (deg)	Vertical Depth (ft)	Latitude (ft)	Departure (ft)	Vertical Section (ft)	Dogleg ($\frac{1}{100}$)
7513.00	35.07	355.97	7,479.71	192.40 S	339.45 E	-185.37	13.46
7545.00	36.83	354.74	7,505.61	173.68 S	337.92 E	-166.69	5.94
7577.00	39.77	353.54	7,530.72	153.96 S	335.89 E	-147.01	9.50
7608.00	43.59	354.03	7,553.87	133.46 S	333.66 E	-126.56	12.36
7640.00	46.93	354.38	7,576.39	110.85 S	331.37 E	-104.00	10.47
7672.00	50.28	354.83	7,597.54	86.95 S	329.12 E	-80.16	10.52
7704.00	54.93	356.14	7,616.97	61.62 S	327.13 E	-54.87	14.88
7736.00	59.06	357.02	7,634.40	34.83 S	325.53 E	-28.12	13.11
7767.00	62.75	358.04	7,649.47	7.78 S	324.37 E	-1.09	12.22
7799.00	66.71	359.13	7,663.13	21.15 N	323.66 E	27.81	12.76
7831.00	71.72	1.06	7,674.48	51.05 N	323.72 E	57.71	16.64
7863.00	74.22	1.63	7,683.86	81.64 N	324.44 E	88.30	7.99
7895.00	77.17	2.47	7,691.76	112.62 N	325.55 E	119.30	9.57
7926.00	79.19	2.47	7,698.11	142.93 N	326.86 E	149.63	6.52
7958.00	82.54	1.88	7,703.19	174.50 N	328.05 E	181.22	10.63
7990.00	86.89	1.41	7,706.14	206.34 N	328.97 E	213.07	13.65
8021.00	88.74	1.36	7,707.33	237.31 N	329.71 E	244.05	5.97
8053.00	89.17	1.38	7,707.91	269.30 N	330.48 E	276.04	1.35
8149.00	90.68	1.95	7,708.04	365.25 N	333.27 E	372.04	1.68
8244.00	89.05	0.45	7,708.27	460.22 N	335.26 E	467.03	2.34
8340.00	90.65	1.63	7,708.53	556.20 N	337.00 E	563.03	2.07
8435.00	87.19	0.79	7,710.32	651.15 N	339.00 E	657.99	3.74
8530.00	87.36	1.24	7,714.84	746.03 N	340.69 E	752.89	0.50
8625.00	88.21	1.58	7,718.50	840.93 N	343.03 E	847.81	0.96
8720.00	88.55	1.57	7,721.19	935.85 N	345.64 E	942.77	0.36
8816.00	89.82	0.48	7,722.56	1,031.82 N	347.36 E	1038.76	1.74
8911.00	89.85	357.32	7,722.84	1,126.79 N	345.54 E	1133.67	3.32
9007.00	90.49	0.18	7,722.55	1,222.76 N	343.45 E	1229.58	3.05
9102.00	91.18	4.15	7,721.17	1,317.66 N	347.04 E	1324.53	4.24
9197.00	89.11	5.11	7,720.94	1,412.35 N	354.71 E	1419.35	2.40
9293.00	87.63	3.16	7,723.67	1,508.05 N	361.64 E	1515.18	2.55
9388.00	88.52	3.66	7,726.87	1,602.83 N	367.28 E	1610.05	1.07
9483.00	90.62	4.01	7,727.58	1,697.61 N	373.63 E	1704.94	2.24
9579.00	92.19	2.64	7,725.23	1,793.41 N	379.20 E	1800.84	2.17
9674.00	91.48	2.10	7,722.19	1,888.28 N	383.13 E	1895.77	0.93
9770.00	88.62	1.67	7,722.11	1,984.22 N	386.29 E	1991.75	3.02
9865.00	90.09	2.19	7,723.19	2,079.15 N	389.49 E	2086.74	1.65
9961.00	90.86	1.32	7,722.38	2,175.10 N	392.42 E	2182.73	1.21
10055.00	89.91	0.20	7,721.75	2,269.09 N	393.67 E	2276.72	1.56
10151.00	88.06	0.05	7,723.46	2,365.07 N	393.88 E	2372.68	1.93
10246.00	89.41	0.37	7,725.55	2,460.05 N	394.22 E	2467.64	1.47
10342.00	90.37	0.96	7,725.74	2,556.04 N	395.33 E	2563.64	1.17
10437.00	88.55	2.17	7,726.63	2,650.99 N	397.93 E	2658.63	2.30
10533.00	89.35	0.77	7,728.39	2,746.94 N	400.39 E	2754.61	1.68
10628.00	91.20	0.76	7,727.93	2,841.93 N	401.66 E	2849.60	1.95

DIRECTIONAL SURVEY DATA

Measured Depth (ft)	Inclination (deg)	Direction (deg)	Vertical Depth (ft)	Latitude (ft)	Departure (ft)	Vertical Section (ft)	Dogleg (%/100')
10723.00	89.45	1.19	7,727.39	2,936.91 N	403.28 E	2944.59	1.90
10819.00	88.67	1.57	7,728.96	3,032.87 N	405.59 E	3040.58	0.90
10914.00	90.46	2.17	7,729.68	3,127.81 N	408.70 E	3135.56	1.99
11010.00	89.66	1.30	7,729.58	3,223.76 N	411.61 E	3231.56	1.24
11105.00	88.21	359.11	7,731.34	3,318.74 N	411.95 E	3326.52	2.77
11200.00	90.43	1.19	7,732.46	3,413.72 N	412.19 E	3421.49	3.20
11296.00	88.09	358.44	7,733.70	3,509.70 N	411.88 E	3517.43	3.75
11391.00	89.11	359.23	7,736.02	3,604.65 N	409.95 E	3612.32	1.35
11487.00	91.42	0.10	7,735.58	3,700.64 N	409.39 E	3708.28	2.57
11582.00	90.71	0.33	7,733.81	3,795.62 N	409.75 E	3803.25	0.79
11677.00	88.92	2.48	7,734.12	3,890.58 N	412.07 E	3898.24	2.94
11773.00	87.07	2.28	7,737.48	3,986.43 N	416.05 E	3994.16	1.94
11868.00	87.17	2.47	7,742.26	4,081.23 N	419.99 E	4089.02	0.23
11963.00	87.44	2.54	7,746.73	4,176.04 N	424.14 E	4183.89	0.30
12059.00	88.71	3.00	7,749.95	4,271.87 N	428.78 E	4279.79	1.40
12154.00	89.51	1.68	7,751.44	4,366.77 N	432.66 E	4374.76	1.62
12249.00	91.42	2.79	7,750.67	4,461.69 N	436.36 E	4469.73	2.32
12345.00	89.48	3.17	7,749.92	4,557.56 N	441.35 E	4565.68	2.06
12440.00	89.66	1.94	7,750.64	4,652.46 N	445.58 E	4660.65	1.31
12535.00	88.83	1.36	7,751.89	4,747.41 N	448.31 E	4755.63	1.07
12631.00	88.89	1.56	7,753.80	4,843.36 N	450.76 E	4851.61	0.22
12726.00	87.62	0.01	7,756.69	4,938.30 N	452.06 E	4946.56	2.11
12821.00	88.33	356.41	7,760.04	5,033.18 N	449.10 E	5041.36	3.86
12917.00	90.00	356.53	7,761.43	5,128.98 N	443.19 E	5137.02	1.74
13012.00	91.57	357.62	7,760.13	5,223.85 N	438.35 E	5231.77	2.01
13107.00	91.69	0.94	7,757.42	5,318.79 N	437.15 E	5326.66	3.50
13202.00	89.97	1.99	7,756.05	5,413.74 N	439.59 E	5421.65	2.12
13298.00	88.31	2.15	7,757.49	5,509.66 N	443.06 E	5517.62	1.74
13393.00	88.46	2.06	7,760.17	5,604.56 N	446.55 E	5612.57	0.19
13489.00	90.74	4.41	7,760.85	5,700.39 N	451.97 E	5708.49	3.41
13584.00	88.65	2.17	7,761.35	5,795.22 N	457.42 E	5803.41	3.23
13680.00	89.57	1.21	7,762.85	5,891.17 N	460.25 E	5899.40	1.38
13775.00	90.74	1.62	7,762.59	5,986.14 N	462.60 E	5994.39	1.31
13871.00	91.79	0.95	7,760.48	6,082.09 N	464.75 E	6090.37	1.30
13966.00	90.99	1.54	7,758.18	6,177.04 N	466.82 E	6185.34	1.05
14060.00	89.35	1.38	7,757.90	6,271.00 N	469.21 E	6279.33	1.75
14156.00	89.48	1.69	7,758.88	6,366.96 N	471.79 E	6375.33	0.35
14251.00	89.97	2.06	7,759.34	6,461.91 N	474.90 E	6470.32	0.65
14346.00	89.63	1.44	7,759.67	6,556.86 N	477.81 E	6565.31	0.74
14442.00	88.70	1.01	7,761.06	6,652.83 N	479.86 E	6661.30	1.07
14537.00	89.88	1.47	7,762.24	6,747.80 N	481.91 E	6756.29	1.33
14632.00	89.20	0.96	7,763.01	6,842.77 N	483.92 E	6851.29	0.90
14728.00	90.77	2.09	7,763.03	6,938.73 N	486.48 E	6947.28	2.02
14823.00	87.94	359.63	7,764.11	7,033.70 N	487.91 E	7042.26	3.95
14918.00	88.18	359.44	7,767.33	7,128.64 N	487.13 E	7137.16	0.32

DIRECTIONAL SURVEY DATA

Measured Depth (ft)	Inclination (deg)	Direction (deg)	Vertical Depth (ft)	Latitude (ft)	Departure (ft)	Vertical Section (ft)	Dogleg (°/100')
15013.00	89.54	358.39	7,769.22	7,223.60 N	485.34 E	7232.07	1.80
15108.00	89.17	0.62	7,770.29	7,318.59 N	484.52 E	7327.01	2.37
15204.00	90.22	359.49	7,770.81	7,414.58 N	484.61 E	7422.99	1.61
15299.00	88.24	359.10	7,772.09	7,509.56 N	483.43 E	7517.93	2.12
15394.00	89.54	359.37	7,773.93	7,604.53 N	482.16 E	7612.85	1.39
15490.00	91.42	0.03	7,773.13	7,700.52 N	481.65 E	7708.81	2.08
15585.00	90.28	1.74	7,771.72	7,795.50 N	483.12 E	7803.79	2.17
15680.00	87.53	2.60	7,773.54	7,890.40 N	486.72 E	7898.75	3.03
15776.00	88.67	2.78	7,776.72	7,986.24 N	491.22 E	7994.67	1.21
15871.00	87.57	2.04	7,779.83	8,081.11 N	495.21 E	8089.59	1.40
15967.00	88.64	2.15	7,783.01	8,176.99 N	498.72 E	8185.52	1.13
16062.00	89.35	1.95	7,784.67	8,271.91 N	502.12 E	8280.50	0.77
16157.00	88.98	2.25	7,786.05	8,366.84 N	505.61 E	8375.48	0.50
16252.00	89.63	3.03	7,787.20	8,461.73 N	509.99 E	8470.44	1.06
16348.00	89.04	2.30	7,788.31	8,557.62 N	514.45 E	8566.40	0.97
16443.00	91.45	3.51	7,787.90	8,652.48 N	519.27 E	8661.34	2.83
16539.00	88.52	1.76	7,787.93	8,748.37 N	523.68 E	8757.30	3.56
16634.00	87.98	1.59	7,790.83	8,843.28 N	526.46 E	8852.25	0.60
16730.00	87.81	0.81	7,794.36	8,939.20 N	528.46 E	8948.18	0.83
16825.00	88.95	1.38	7,797.05	9,034.14 N	530.28 E	9043.14	1.35
16920.00	87.72	1.59	7,799.80	9,129.07 N	532.74 E	9138.10	1.31
17015.00	88.09	1.42	7,803.28	9,223.97 N	535.24 E	9233.04	0.42
17109.00	89.08	2.02	7,805.60	9,317.90 N	538.07 E	9327.00	1.23
17203.00	90.19	2.48	7,806.21	9,411.82 N	541.76 E	9420.98	1.27
17297.00	90.06	2.44	7,806.01	9,505.73 N	545.79 E	9514.96	0.14
17391.00	89.97	2.37	7,805.98	9,599.65 N	549.74 E	9608.94	0.12
17485.00	90.89	2.94	7,805.27	9,693.55 N	554.09 E	9702.90	1.16
17580.00	91.88	2.77	7,802.97	9,788.40 N	558.82 E	9797.83	1.05
17674.00	92.78	2.80	7,799.16	9,882.21 N	563.38 E	9891.72	0.96
17768.00	94.13	2.73	7,793.49	9,975.93 N	567.91 E	9985.51	1.44
17831.00	94.13	2.73	7,788.95	10,038.69 N	570.90 E	10048.32	0.00

SURVEY FOOTER

SURVEYS CALCULATED USING SHORT COLLAR METHOD
 TIE-ON SURVEY ASSUMED VERTICAL AT SURFACE
 SURVEYS FROM 100' MD TO 770' MD PROVIDED BY MS SURVEY
 SURVEYS FROM 827' MD TO 17768' MD PROVIDED BY SPERRY DRILLING MWD
 SURVEY AT 17768' MD HAS BEEN PROJECTED TO TD AT 17831' MD
 SPERRY ENGINEERS: S. IMMEKUS, J. MCRAE

DIRECTIONAL SURVEY DATA NOTES

- Calculation based on minimum curvature method.
- Survey coordinates relative to well system reference point.
- TVD values given relative to drilling measurement point.
- Vertical section relative to well head.
- Vertical section is computed along a direction of 1.18 degrees (Grid)
- A total correction of 7.22 deg from Magnetic north to Grid north has been applied
- Horizontal displacement is relative to the well head.
- Horizontal displacement (closure) at 17,831.00 feet is 10,054.91 feet along 3.25 degrees (Grid)

WARRANTY

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