

State of Texas

County of Tarrant

I, William B. Vandergriff, certify that; I am employed by MS Energy Services;
that I did on the day(s) of 6/30/13 through 8/16/13 conduct or supervise
the taking of MWD survey(s) from a depth of 6/6 feet to a depth of 18,053
feet; that the data is true, correct, complete and within the limitations of the tool set forth by MS Energy
Services; that I am authorized and qualified to make this report; that this survey(s) was / were
conducted at the request of PIONEER NATURAL RESOURCES, USA, Inc.,
for the UNIVERSITY 2-20 13H, API No. 42.383.38307
in REAGAN County Parish, TEXAS; and that I have
reviewed this report and find that it conforms to the principles and procedures as set forth by
MS Energy Services.

Signature: William B. Vandergriff
Title: MWD FIELD SPECIALIST

SURVEY CALCULATION PROGRAM

9/12/13 19:51

Company:		Pioneer Natural Resources, USA, Inc.												
Well Name:		University 2-20 13H												
Location:		Reagan County, TX												
Rig:		H&P #497		Magnetic Declination:		7.17		REFERENCED TO GRID NORTH ▼						
Job Number:		DDMO-130474												
API #:		42-383-38307												
Vertical Section Azimuth:				181.88		Proposed Direction:		181.88						
Survey Calculation Method:				Minimum Curvature										
PTB:	MD		INC		AZM		TVD		N/S		E/W		VS	
	18,118		90.60		180.70		8242.89		-10167.45		-314.60		10172.30	
#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Closure Distance		Azm	DLS/ 100	BUR/ 100'		
TIE IN	558	0.68	332.25	557.96	3.88	2.22	-3.95	4.47	29.78					
1	616	0.80	356.05	615.96	4.59	2.03	-4.65	5.02	23.88	0.56	0.21			
2	801	0.71	332.39	800.94	6.89	1.41	-6.94	7.04	11.57	0.17	-0.05			
3	986	0.80	324.37	985.92	8.96	0.13	-8.96	8.96	0.82	0.07	0.05			
4	1,175	0.71	350.06	1174.91	11.18	-0.84	-11.15	11.22	355.69	0.18	-0.05			
5	1,365	0.62	326.79	1364.90	13.20	-1.61	-13.14	13.30	353.05	0.15	-0.05			
6	1,554	0.71	309.87	1553.88	14.81	-3.07	-14.70	15.12	348.30	0.11	0.05			
7	1,744	0.71	311.19	1743.87	16.34	-4.86	-16.17	17.05	343.44	0.01	0.00			
8	1,933	1.02	304.45	1932.85	18.06	-7.13	-17.82	19.42	338.47	0.17	0.16			
9	2,123	0.62	4.16	2122.83	20.04	-8.45	-19.76	21.75	337.15	0.47	-0.21			
10	2,313	0.62	9.92	2312.82	22.08	-8.19	-21.80	23.55	339.64	0.03	0.00			
11	2,502	1.59	10.87	2501.78	25.66	-7.52	-25.40	26.74	343.66	0.51	0.51			
12	2,692	2.21	13.96	2691.68	31.81	-6.14	-31.59	32.40	349.07	0.33	0.33			
13	2,882	2.12	20.08	2881.54	38.66	-4.05	-38.51	38.88	354.02	0.13	-0.05			
14	3,071	1.99	24.58	3070.42	44.93	-1.49	-44.86	44.96	358.10	0.11	-0.07			
15	3,261	1.59	53.97	3260.33	49.48	2.02	-49.52	49.52	2.33	0.52	-0.21			
16	3,450	1.50	45.46	3449.26	52.76	5.90	-52.93	53.09	6.38	0.13	-0.05			
17	3,640	0.22	77.99	3639.24	54.58	8.03	-54.81	55.17	8.37	0.69	-0.67			
18	3,830	0.22	359.75	3829.24	55.02	8.39	-55.27	55.66	8.67	0.15	0.00			
19	4,019	0.31	79.48	4018.23	55.48	8.89	-55.74	56.18	9.10	0.18	0.05			
20	4,209	0.40	35.86	4208.23	56.11	9.78	-56.40	56.95	9.89	0.15	0.05			
21	4,399	0.31	56.08	4398.23	56.93	10.60	-57.25	57.91	10.54	0.08	-0.05			
22	4,588	0.31	46.57	4587.22	57.57	11.39	-57.91	58.69	11.19	0.03	0.00			
23	4,778	0.22	89.09	4777.22	57.93	12.13	-58.30	59.18	11.83	0.11	-0.05			
24	4,967	0.40	192.47	4966.22	57.29	12.35	-57.66	58.61	12.16	0.26	0.10			
25	5,157	0.62	193.97	5156.21	55.65	11.96	-56.01	56.92	12.13	0.12	0.12			
26	5,346	0.31	178.15	5345.21	54.14	11.73	-54.50	55.40	12.22	0.18	-0.16			
27	5,536	0.49	173.66	5535.20	52.82	11.83	-53.18	54.13	12.63	0.10	0.09			
28	5,725	0.22	231.08	5724.20	51.79	11.64	-52.14	53.08	12.67	0.22	-0.14			

SURVEY CALCULATION PROGRAM

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Rig:		H&P #497		Magnetic Declination:		7.17		REFERENCED TO GRID NORTH ▼						
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API #:		42-383-38307												
Vertical Section Azimuth:				181.88		Proposed Direction:		181.88						
Survey Calculation Method:				Minimum Curvature										
PTB:	MD		INC		AZM		TVD		N/S		E/W		VS	
	18,118		90.60		180.70		8242.89		-10167.45		-314.60		10172.30	
#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Closure Distance		Azm	DLS/ 100	BUR/ 100'		
29	5,915	0.22	253.07	5914.20	51.45	11.01	-51.79	52.62	12.08	0.04	0.00			
30	6,105	0.31	75.17	6104.20	51.48	11.16	-51.82	52.67	12.23	0.28	0.05			
31	6,294	1.19	75.78	6293.18	52.09	13.55	-52.51	53.83	14.58	0.47	0.47			
32	6,484	1.41	156.07	6483.14	50.44	16.41	-50.95	53.04	18.03	0.89	0.12			
33	6,673	2.78	183.18	6672.02	43.74	17.10	-44.28	46.96	21.36	0.88	0.72			
34	6,862	5.48	194.19	6860.51	30.41	14.64	-30.87	33.75	25.70	1.48	1.43			
35	7,052	6.81	189.96	7049.42	10.52	10.46	-10.86	14.84	44.85	0.74	0.70			
36	7,241	6.01	187.67	7237.23	-10.32	7.20	10.08	12.59	145.09	0.44	-0.42			
37	7,336	5.08	185.69	7331.79	-19.44	6.12	19.23	20.38	162.51	1.00	-0.98			
38	7,436	4.30	194.60	7431.45	-27.47	4.74	27.30	27.88	170.21	1.07	-0.78			
39	7,531	5.30	190.30	7526.12	-35.24	3.06	35.12	35.37	175.04	1.12	1.05			
40	7,626	7.90	189.80	7620.48	-45.99	1.16	45.93	46.00	178.55	2.74	2.74			
41	7,721	10.10	194.20	7714.31	-60.50	-1.99	60.53	60.53	181.89	2.42	2.32			
42	7,815	15.00	188.70	7806.04	-80.53	-5.86	80.68	80.74	184.16	5.36	5.21			
43	7,910	27.90	193.60	7894.28	-114.43	-12.97	114.79	115.16	186.47	13.70	13.58			
44	8,005	35.50	191.50	7975.05	-163.13	-23.72	163.82	164.85	188.27	8.08	8.00			
45	8,100	45.00	192.30	8047.47	-223.12	-36.40	224.19	226.07	189.27	10.01	10.00			
46	8,194	53.40	191.90	8108.84	-292.64	-51.29	294.16	297.10	189.94	8.94	8.94			
47	8,289	60.70	192.10	8160.47	-370.56	-67.86	372.59	376.72	190.38	7.69	7.68			
48	8,384	66.30	192.10	8202.85	-453.66	-85.67	456.22	461.67	190.69	5.89	5.89			
49	8,479	78.70	192.00	8231.36	-542.09	-104.55	545.23	552.08	190.92	13.05	13.05			
50	8,573	90.10	191.40	8240.51	-633.55	-123.48	637.26	645.47	191.03	12.14	12.13			
51	8,668	89.80	185.40	8240.60	-727.49	-137.35	731.60	740.34	190.69	6.32	-0.32			
52	8,763	91.40	178.40	8239.60	-822.37	-140.50	826.53	834.28	189.70	7.56	1.68			
53	8,858	91.00	178.60	8237.61	-917.31	-138.01	921.35	927.64	188.56	0.47	-0.42			
54	8,952	90.50	178.20	8236.38	-1011.27	-135.39	1015.16	1020.29	187.63	0.68	-0.53			
55	9,047	90.00	177.90	8235.97	-1106.21	-132.16	1109.95	1114.08	186.81	0.61	-0.53			
56	9,142	91.00	179.60	8235.14	-1201.18	-130.09	1204.80	1208.20	186.18	2.08	1.05			
57	9,237	90.80	181.90	8233.65	-1296.15	-131.33	1299.76	1302.79	185.79	2.43	-0.21			
58	9,332	91.30	181.70	8231.91	-1391.09	-134.31	1394.75	1397.56	185.51	0.57	0.53			

SURVEY CALCULATION PROGRAM

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Well Name:		University 2-20 13H										
Location:		Reagan County, TX										
Rig:		H&P #497					Magnetic Declination:		7.17		REFERENCED TO GRID NORTH ▼	
Job Number:		DDMO-130474										
API #:		42-383-38307										
Vertical Section Azimuth:				181.88		Proposed Direction:		181.88				
Survey Calculation Method:				Minimum Curvature								
PTB:	MD		INC		AZM	TVD	N/S	E/W		VS		
	18,118		90.60		180.70	8242.89	-10167.45	-314.60		10172.30		
#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Closure Distance		Azm	DLS/ 100	BUR/ 100'
59	9,426	89.90	183.70	8230.92	-1484.97	-138.74	1488.73	1491.44	185.34	2.60	-1.49	
60	9,521	87.70	183.20	8232.91	-1579.77	-144.45	1583.66	1586.37	185.22	2.37	-2.32	
61	9,616	87.50	183.40	8236.89	-1674.53	-149.92	1678.55	1681.23	185.12	0.30	-0.21	
62	9,711	86.90	183.40	8241.53	-1769.25	-155.55	1773.40	1776.08	185.02	0.63	-0.63	
63	9,811	88.60	183.70	8245.45	-1868.98	-161.73	1873.28	1875.96	184.95	1.73	1.70	
64	9,905	88.80	181.10	8247.59	-1962.87	-165.67	1967.24	1969.84	184.82	2.77	0.21	
65	10,000	88.70	181.60	8249.66	-2057.82	-167.91	2062.22	2064.65	184.66	0.54	-0.11	
66	10,095	90.80	180.70	8250.07	-2152.79	-169.81	2157.20	2159.48	184.51	2.40	2.21	
67	10,190	89.30	180.00	8249.99	-2247.78	-170.39	2252.16	2254.23	184.33	1.74	-1.58	
68	10,284	90.10	178.60	8250.48	-2341.77	-169.24	2346.06	2347.88	184.13	1.72	0.85	
69	10,379	90.30	178.30	8250.15	-2436.74	-166.67	2440.89	2442.43	183.91	0.38	0.21	
70	10,474	89.90	179.90	8249.99	-2531.72	-165.18	2535.78	2537.11	183.73	1.74	-0.42	
71	10,569	90.80	180.60	8249.41	-2626.72	-165.60	2630.74	2631.93	183.61	1.20	0.95	
72	10,664	90.90	180.00	8248.00	-2721.71	-166.09	2725.69	2726.77	183.49	0.64	0.11	
73	10,758	91.30	180.30	8246.19	-2815.69	-166.34	2819.63	2820.60	183.38	0.53	0.43	
74	10,853	91.80	179.80	8243.62	-2910.65	-166.42	2914.55	2915.41	183.27	0.74	0.53	
75	10,948	92.20	179.50	8240.31	-3005.59	-165.84	3009.42	3010.16	183.16	0.53	0.42	
76	11,043	92.90	179.80	8236.08	-3100.50	-165.26	3104.25	3104.90	183.05	0.80	0.74	
77	11,137	92.60	180.70	8231.57	-3194.39	-165.67	3198.10	3198.68	182.97	1.01	-0.32	
78	11,232	92.30	180.50	8227.51	-3289.29	-166.67	3292.99	3293.51	182.90	0.38	-0.32	
79	11,327	91.40	181.80	8224.44	-3384.22	-168.57	3387.93	3388.42	182.85	1.66	-0.95	
80	11,422	89.30	179.10	8223.86	-3479.20	-169.32	3482.89	3483.32	182.79	3.60	-2.21	
81	11,517	89.50	182.20	8224.86	-3574.18	-170.40	3577.85	3578.24	182.73	3.27	0.21	
82	11,612	90.40	182.00	8224.94	-3669.12	-173.88	3672.84	3673.23	182.71	0.97	0.95	
83	11,706	91.70	183.10	8223.22	-3763.00	-178.06	3766.82	3767.21	182.71	1.81	1.38	
84	11,801	89.40	182.30	8222.31	-3857.89	-182.53	3861.80	3862.20	182.71	2.56	-2.42	
85	11,896	88.50	182.20	8224.05	-3952.80	-186.26	3956.78	3957.18	182.70	0.95	-0.95	
86	11,991	90.00	182.20	8225.29	-4047.72	-189.91	4051.77	4052.17	182.69	1.58	1.58	
87	12,086	91.60	182.80	8223.96	-4142.61	-194.05	4146.75	4147.15	182.68	1.80	1.68	

SURVEY CALCULATION PROGRAM

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Well Name:		University 2-20 13H									
Location:		Reagan County, TX									
Rig:		H&P #497				Magnetic Declination:		7.17		REFERENCED TO GRID NORTH ▼	
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API #:		42-383-38307									
Vertical Section Azimuth:			181.88		Proposed Direction:		181.88				
Survey Calculation Method:			Minimum Curvature								
PTB:	MD		INC		AZM	TVD	N/S	E/W		VS	
	18,118		90.60		180.70	8242.89	-10167.45	-314.60		10172.30	
#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Closure Distance Azm		DLS/ 100	BUR/ 100'
88	12,180	90.10	183.50	8222.57	-4236.46	-199.22	4240.71	4241.14	182.69	1.76	-1.60
89	12,275	87.30	183.10	8224.72	-4331.26	-204.68	4335.65	4336.10	182.71	2.98	-2.95
90	12,370	87.10	183.50	8229.37	-4425.99	-210.14	4430.51	4430.98	182.72	0.47	-0.21
91	12,465	86.60	182.90	8234.59	-4520.70	-215.44	4525.34	4525.83	182.73	0.82	-0.53
92	12,560	85.80	183.60	8240.88	-4615.34	-220.81	4620.10	4620.62	182.74	1.12	-0.84
93	12,654	85.30	182.90	8248.17	-4708.90	-226.13	4713.79	4714.33	182.75	0.91	-0.53
94	12,749	89.40	182.10	8252.57	-4803.69	-230.26	4808.66	4809.21	182.74	4.40	4.32
95	12,844	90.60	180.30	8252.57	-4898.66	-232.25	4903.65	4904.17	182.71	2.28	1.26
96	12,938	90.20	180.10	8251.91	-4992.66	-232.58	4997.60	4998.08	182.67	0.48	-0.43
97	13,033	89.80	179.30	8251.91	-5087.66	-232.08	5092.53	5092.95	182.61	0.94	-0.42
98	13,128	90.50	177.10	8251.66	-5182.61	-229.10	5187.33	5187.67	182.53	2.43	0.74
99	13,223	91.50	176.50	8250.00	-5277.44	-223.80	5281.94	5282.18	182.43	1.23	1.05
100	13,318	90.20	175.90	8248.59	-5372.22	-217.50	5376.46	5376.62	182.32	1.51	-1.37
101	13,412	90.90	179.20	8247.69	-5466.12	-213.49	5470.18	5470.28	182.24	3.59	0.74
102	13,507	89.70	179.90	8247.19	-5561.11	-212.74	5565.10	5565.18	182.19	1.46	-1.26
103	13,602	91.40	183.20	8246.28	-5656.05	-215.31	5660.07	5660.15	182.18	3.91	1.79
104	13,697	92.40	183.30	8243.13	-5750.85	-220.69	5754.99	5755.08	182.20	1.06	1.05
105	13,792	93.00	183.30	8238.66	-5845.58	-226.15	5849.86	5849.96	182.22	0.63	0.63
106	13,886	93.60	183.00	8233.25	-5939.29	-231.31	5943.68	5943.79	182.23	0.71	0.64
107	13,981	93.20	183.10	8227.61	-6033.98	-236.36	6038.49	6038.61	182.24	0.43	-0.42
108	14,076	91.10	183.30	8224.05	-6128.76	-241.66	6133.39	6133.53	182.26	2.22	-2.21
109	14,171	89.40	183.30	8223.63	-6223.60	-247.12	6228.36	6228.51	182.27	1.79	-1.79
110	14,266	90.40	184.40	8223.80	-6318.38	-253.50	6323.30	6323.47	182.30	1.56	1.05
111	14,361	89.70	183.00	8223.72	-6413.18	-259.63	6418.25	6418.44	182.32	1.65	-0.74
112	14,456	90.00	182.90	8223.97	-6508.06	-264.52	6513.23	6513.43	182.33	0.33	0.32
113	14,551	88.40	183.50	8225.29	-6602.90	-269.82	6608.19	6608.41	182.34	1.80	-1.68
114	14,645	90.30	181.90	8226.36	-6696.78	-274.25	6702.17	6702.39	182.35	2.64	2.02
115	14,740	89.20	181.40	8226.77	-6791.74	-276.99	6797.17	6797.38	182.34	1.27	-1.16
116	14,835	86.60	181.60	8230.25	-6886.63	-279.47	6892.09	6892.30	182.32	2.74	-2.74

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117	14,930	88.70	181.40	8234.15	-6981.51	-281.96	6987.01	6987.21	182.31	2.22	2.21	
118	15,024	90.20	181.60	8235.05	-7075.48	-284.42	7081.00	7081.19	182.30	1.61	1.60	
119	15,119	89.00	182.50	8235.71	-7170.41	-287.81	7175.99	7176.18	182.30	1.58	-1.26	
120	15,214	89.10	182.90	8237.29	-7265.29	-292.29	7270.97	7271.17	182.30	0.43	0.11	
121	15,309	88.80	182.20	8239.03	-7360.18	-296.51	7365.95	7366.15	182.31	0.80	-0.32	
122	15,403	88.70	181.10	8241.08	-7454.12	-299.22	7459.92	7460.12	182.30	1.17	-0.11	
123	15,498	89.10	182.90	8242.90	-7549.04	-302.54	7554.90	7555.10	182.29	1.94	0.42	
124	15,593	89.70	180.50	8243.90	-7643.98	-305.35	7649.89	7650.08	182.29	2.60	0.63	
125	15,688	89.50	178.50	8244.56	-7738.97	-304.52	7744.80	7744.96	182.25	2.12	-0.21	
126	15,783	89.60	177.90	8245.31	-7833.92	-301.54	7839.60	7839.72	182.20	0.64	0.11	
127	15,877	89.60	177.20	8245.97	-7927.83	-297.52	7933.33	7933.41	182.15	0.74	0.00	
128	15,972	89.70	175.70	8246.55	-8022.65	-291.64	8027.90	8027.95	182.08	1.58	0.11	
129	16,067	89.50	176.30	8247.21	-8117.41	-285.01	8122.39	8122.41	182.01	0.67	-0.21	
130	16,162	90.20	176.60	8247.46	-8212.23	-279.13	8216.97	8216.97	181.95	0.80	0.74	
131	16,252	91.60	178.60	8246.04	-8302.13	-275.36	8306.70	8306.70	181.90	2.71	1.56	
132	16,347	92.00	181.70	8243.06	-8397.07	-275.61	8401.60	8401.60	181.88	3.29	0.42	
133	16,441	92.00	182.10	8239.78	-8490.96	-278.73	8495.54	8495.54	181.88	0.43	0.00	
134	16,536	91.60	181.20	8236.79	-8585.88	-281.46	8590.49	8590.49	181.88	1.04	-0.42	
135	16,631	90.10	181.10	8235.39	-8680.84	-283.37	8685.47	8685.47	181.87	1.58	-1.58	
136	16,726	89.80	181.00	8235.47	-8775.83	-285.11	8780.46	8780.46	181.86	0.33	-0.32	
137	16,820	89.30	181.30	8236.21	-8869.81	-286.99	8874.45	8874.45	181.85	0.62	-0.53	
138	16,915	89.60	181.00	8237.12	-8964.78	-288.90	8969.43	8969.44	181.85	0.45	0.32	
139	17,010	88.90	181.00	8238.36	-9059.76	-290.56	9064.41	9064.42	181.84	0.74	-0.74	
140	17,105	89.50	181.50	8239.69	-9154.73	-292.63	9159.40	9159.40	181.83	0.82	0.63	
141	17,200	89.20	181.70	8240.77	-9249.68	-295.28	9254.39	9254.40	181.83	0.38	-0.32	
142	17,295	89.50	181.50	8241.84	-9344.64	-297.93	9349.38	9349.39	181.83	0.38	0.32	
143	17,389	89.60	181.80	8242.58	-9438.60	-300.64	9443.38	9443.38	181.82	0.34	0.11	
144	17,484	90.00	181.40	8242.91	-9533.56	-303.29	9538.38	9538.38	181.82	0.60	0.42	
145	17,579	89.80	181.40	8243.08	-9628.53	-305.61	9633.37	9633.38	181.82	0.21	-0.21	

Company:		Pioneer Natural Resources, USA, Inc.												
Well Name:		University 2-20 13H												
Location:		Reagan County, TX												
Rig:		H&P #497				Magnetic Declination:		7.17		REFERENCED TO GRID NORTH ▼				
Job Number:		DDMO-130474												
API #:		42-383-38307												
Vertical Section Azimuth:				181.88		Proposed Direction:		181.88						
Survey Calculation Method:				Minimum Curvature										
PTB:	MD		INC		AZM		TVD		N/S		E/W		VS	
	18,118		90.60		180.70		8242.89		-10167.45		-314.60		10172.30	
#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Closure Distance		Azm	DLS/ 100	BUR/ 100'		
146	17,674	90.00	180.80	8243.25	-9723.51	-307.44	9728.37	9728.37	181.81	0.67	0.21			
147	17,769	90.00	180.80	8243.25	-9818.50	-308.76	9823.35	9823.36	181.80	0.00	0.00			
148	17,863	89.70	181.10	8243.49	-9912.49	-310.32	9917.34	9917.35	181.79	0.45	-0.32			
149	17,958	89.80	181.20	8243.91	-10007.47	-312.23	10012.33	10012.34	181.79	0.15	0.11			
150	18,053	90.60	180.70	8243.57	-10102.46	-313.81	10107.31	10107.33	181.78	0.99	0.84			