

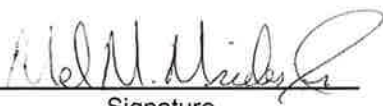


## Directional Survey Certification

2948 I-70 Business Loop  
Grand Junction, CO 81504  
(970)-245-9447 Fax (970)-245-9454

<b>Operator</b>	WPX Energy Rocky Mountain, LLC.
<b>Well Name &amp; No.</b>	PA 333-27
<b>County &amp; State</b>	Garfield, CO
<b>SDI Job No.</b>	421014DEFK209411
<b>Rig</b>	Nabors 576

I, Mel Mireles Jr., having personal knowledge of all the facts, hereby certify that the attached directional survey run from a measured depth of 0 feet to a measured depth of 8,538 feet is true and correct as determined from all available records.

  
Signature

13-Nov-14  
Date

**Mel Mireles Jr.**  
Grand Junction Assistant Well Planner  
Scientific Drilling - Colorado District

<b>Company:</b>	WPX Energy Rocky Mountain, LLC	<b>Local Co-ordinate Reference:</b>	Well PA 333-27 - Slot A05
<b>Project:</b>	Garfield County, CO NAD83	<b>TVD Reference:</b>	KELLY BUSHING @ 5882.01ft (NABORS 576 (26' RKB) mab)
<b>Site:</b>	DOE 2-W-27 Pad	<b>MD Reference:</b>	KELLY BUSHING @ 5882.01ft (NABORS 576 (26' RKB) mab)
<b>Well:</b>	PA 333-27	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	Grand Junction District

<b>Project</b>	Garfield County, CO NAD83		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Colorado Central Zone		

Site	DOE 2-W-27 Pad				
Site Position:		Northing:	1,615,065.30 usft	Latitude:	39° 29' 45.439 N
From:	Map	Easting:	2,300,864.40 usft	Longitude:	107° 58' 39.895 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	-1.56 °

Well	PA 333-27 - Slot A05					
Well Position	+N/-S	0.00 ft	Northing:	1,615,080.32 usft	Latitude:	39° 29' 45.588 N
	+E/-W	0.00 ft	Easting:	2,300,865.09 usft	Longitude:	107° 58' 39.892 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	0.00 ft	Ground Level:	5,856.01 ft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	10/29/2014	9.91	65.65	51,913

<b>Design</b>	Wellbore #1				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>	
	0.00	0.00	0.00	250.07	

<b>Survey Program</b>	<b>Date</b>	11/3/2014			
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
88.00	541.00	Survey #1 - Gyro Survey (Wellbore #1)	SDI Gyro MWD 104	SDI Gyro MWD Error Model Ver 1.0.4	
612.00	2,757.00	Survey #2 - Surface MWD (Wellbore #1)	MWD SDI	MWD - Standard ver 1.0.1	
2,876.00	8,538.00	Survey #3 - Production MWD (Wellbore #1)	MWD SDI	MWD - Standard ver 1.0.1	

<b>Survey</b>										
<b>Measured Depth (ft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Vertical Section (ft)</b>	<b>Dogleg Rate (°/100ft)</b>	<b>Build Rate (°/100ft)</b>	<b>Turn Rate (°/100ft)</b>	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
88.00	0.35	235.55	88.00	-0.15	-0.22	0.26	0.40	0.40	0.00	
<b>First SDI Gyro MWD Survey</b>										
175.00	2.64	248.91	174.96	-1.02	-2.31	2.52	2.64	2.63	15.36	
268.00	5.45	251.28	267.72	-3.21	-8.49	9.08	3.03	3.02	2.55	
360.00	9.33	247.68	358.94	-7.45	-19.53	20.90	4.25	4.22	-3.91	
450.00	11.35	252.77	447.48	-12.84	-34.74	37.04	2.46	2.24	5.66	

<b>Company:</b>	WPX Energy Rocky Mountain, LLC	<b>Local Co-ordinate Reference:</b>	Well PA 333-27 - Slot A05
<b>Project:</b>	Garfield County, CO NAD83	<b>TVD Reference:</b>	KELLY BUSHING @ 5882.01ft (NABORS 576 (26' RKB) mab)
<b>Site:</b>	DOE 2-W-27 Pad	<b>MD Reference:</b>	KELLY BUSHING @ 5882.01ft (NABORS 576 (26' RKB) mab)
<b>Well:</b>	PA 333-27	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	Grand Junction District

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)
541.00	13.99	249.52	536.26	-19.34	-53.60	56.99	3.00	2.90	-3.57
<b>Last SDI Gyro MWD Survey</b>									
612.00	14.50	249.18	605.07	-25.51	-69.95	74.46	0.73	0.72	-0.48
<b>First SDI Surface MWD Survey</b>									
704.00	13.07	250.21	694.42	-33.12	-90.51	96.38	1.58	-1.55	1.12
795.00	13.53	247.18	782.98	-40.74	-110.00	117.30	0.92	0.51	-3.33
887.00	13.79	251.37	872.38	-48.41	-130.31	139.01	1.11	0.28	4.55
978.00	12.65	254.81	960.97	-54.49	-150.20	159.78	1.52	-1.25	3.78
1,069.00	13.34	252.96	1,049.64	-60.18	-169.86	180.20	0.89	0.76	-2.03
1,165.00	14.56	249.71	1,142.81	-67.61	-191.77	203.33	1.51	1.27	-3.39
1,260.00	16.11	246.57	1,234.42	-76.99	-215.06	228.43	1.85	1.63	-3.31
1,354.00	14.76	250.93	1,325.03	-86.09	-238.35	253.42	1.89	-1.44	4.64
1,450.00	13.22	254.77	1,418.18	-92.97	-260.50	276.59	1.87	-1.60	4.00
1,545.00	14.45	253.53	1,510.43	-99.18	-282.35	299.25	1.33	1.29	-1.31
1,640.00	13.56	251.12	1,602.60	-106.15	-304.25	322.21	1.12	-0.94	-2.54
1,736.00	12.94	246.71	1,696.05	-114.04	-324.78	344.20	1.23	-0.65	-4.59
1,830.00	14.80	244.25	1,787.31	-123.42	-345.26	366.65	2.08	1.98	-2.62
1,926.00	14.56	246.55	1,880.17	-133.54	-367.37	390.89	0.66	-0.25	2.40
2,021.00	13.07	251.42	1,972.42	-141.72	-388.51	413.55	1.99	-1.57	5.13
2,115.00	13.21	254.37	2,063.96	-148.00	-408.93	434.89	0.73	0.15	3.14
2,210.00	12.24	254.39	2,156.63	-153.63	-429.08	455.75	1.02	-1.02	0.02
2,306.00	11.71	252.92	2,250.54	-159.23	-448.20	475.63	0.64	-0.55	-1.53
2,401.00	13.02	251.89	2,343.34	-165.39	-467.58	495.96	1.40	1.38	-1.08
2,496.00	12.21	248.47	2,436.04	-172.41	-487.10	516.70	1.16	-0.85	-3.60
2,590.00	12.99	246.30	2,527.78	-180.30	-506.02	537.17	0.97	0.83	-2.31
2,685.00	13.90	245.86	2,620.17	-189.26	-526.21	559.21	0.96	0.96	-0.46
2,757.00	14.42	244.93	2,689.99	-196.59	-542.22	576.76	0.79	0.72	-1.29
<b>Last SDI Surface MWD Survey</b>									
2,876.00	15.12	245.47	2,805.05	-209.32	-569.76	606.99	0.60	0.59	0.45
<b>First SDI Production MWD Survey</b>									
2,971.00	14.03	243.75	2,897.00	-219.55	-591.36	630.79	1.23	-1.15	-1.81
3,066.00	13.92	248.03	2,989.19	-228.92	-612.29	653.65	1.09	-0.12	4.51
3,161.00	13.35	246.11	3,081.51	-237.64	-632.92	676.01	0.77	-0.60	-2.02
3,257.00	13.91	250.44	3,174.81	-245.99	-653.92	698.61	1.21	0.58	4.51
3,352.00	13.48	248.82	3,267.11	-253.81	-675.01	721.10	0.61	-0.45	-1.71
3,447.00	14.13	253.29	3,359.36	-261.15	-696.44	743.75	1.31	0.68	4.71
3,543.00	13.79	251.17	3,452.53	-268.21	-718.49	766.89	0.64	-0.35	-2.21
3,638.00	13.50	249.52	3,544.85	-275.75	-739.60	789.30	0.51	-0.31	-1.74
3,733.00	13.62	251.52	3,637.20	-283.17	-760.59	811.57	0.51	0.13	2.11
3,828.00	13.43	251.52	3,729.57	-290.21	-781.66	833.78	0.20	-0.20	0.00
3,924.00	12.93	250.69	3,823.04	-297.30	-802.37	855.66	0.56	-0.52	-0.86
4,019.00	13.93	251.54	3,915.44	-304.43	-823.25	877.72	1.07	1.05	0.89
4,115.00	13.71	251.29	4,008.66	-311.74	-844.99	900.65	0.24	-0.23	-0.26

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<b>Site:</b>	DOE 2-W-27 Pad	<b>MD Reference:</b>	KELLY BUSHING @ 5882.01ft (NABORS 576 (26' RKB) mab)
<b>Well:</b>	PA 333-27	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	Grand Junction District

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)
4,210.00	13.46	247.90	4,101.00	-319.51	-865.90	922.95	0.88	-0.26	-3.57
4,306.00	15.22	249.22	4,194.01	-328.19	-888.03	946.72	1.86	1.83	1.38
4,401.00	15.16	249.88	4,285.69	-336.89	-911.35	971.61	0.19	-0.06	0.69
4,495.00	15.12	247.78	4,376.43	-345.75	-934.24	996.15	0.59	-0.04	-2.23
4,591.00	14.91	253.50	4,469.15	-353.99	-957.68	1,020.99	1.56	-0.22	5.96
4,685.00	14.82	253.37	4,560.01	-360.87	-980.79	1,045.06	0.10	-0.10	-0.14
4,781.00	13.37	254.77	4,653.12	-367.30	-1,003.27	1,068.38	1.55	-1.51	1.46
4,876.00	12.17	252.34	4,745.77	-373.22	-1,023.41	1,089.34	1.38	-1.26	-2.56
4,971.00	11.70	255.33	4,838.71	-378.70	-1,042.27	1,108.93	0.82	-0.49	3.15
5,066.00	11.24	256.53	4,931.81	-383.30	-1,060.59	1,127.73	0.55	-0.48	1.26
5,162.00	10.25	252.74	5,026.13	-388.01	-1,077.85	1,145.56	1.27	-1.03	-3.95
5,257.00	8.94	255.47	5,119.80	-392.37	-1,093.06	1,161.35	1.46	-1.38	2.87
5,352.00	8.63	250.76	5,213.69	-396.57	-1,106.94	1,175.82	0.82	-0.33	-4.96
5,447.00	7.54	251.61	5,307.74	-400.88	-1,119.58	1,189.18	1.15	-1.15	0.89
5,542.00	6.43	254.49	5,402.04	-404.27	-1,130.62	1,200.72	1.22	-1.17	3.03
5,637.00	5.74	249.25	5,496.50	-407.38	-1,140.19	1,210.77	0.93	-0.73	-5.52
5,732.00	4.38	253.39	5,591.13	-410.10	-1,148.11	1,219.14	1.48	-1.43	4.36
5,828.00	4.67	253.97	5,686.83	-412.23	-1,155.38	1,226.70	0.31	0.30	0.60
5,924.00	3.68	246.79	5,782.57	-414.52	-1,161.97	1,233.68	1.16	-1.03	-7.48
6,019.00	2.03	249.39	5,877.45	-416.31	-1,166.35	1,238.40	1.74	-1.74	2.74
6,114.00	1.55	253.59	5,972.41	-417.27	-1,169.15	1,241.37	0.52	-0.51	4.42
6,209.00	1.06	269.53	6,067.38	-417.64	-1,171.26	1,243.48	0.64	-0.52	16.78
6,305.00	1.37	339.21	6,163.36	-416.57	-1,172.56	1,244.33	1.47	0.32	72.58
6,400.00	1.33	315.87	6,258.34	-414.72	-1,173.73	1,244.80	0.58	-0.04	-24.57
6,495.00	1.23	352.95	6,353.32	-412.92	-1,174.62	1,245.03	0.86	-0.11	39.03
6,591.00	0.74	339.91	6,449.30	-411.31	-1,174.96	1,244.80	0.56	-0.51	-13.58
6,686.00	0.76	318.60	6,544.29	-410.26	-1,175.59	1,245.03	0.29	0.02	-22.43
6,781.00	0.88	277.01	6,639.29	-409.70	-1,176.73	1,245.91	0.62	0.13	-43.78
6,876.00	0.84	55.71	6,734.28	-409.22	-1,176.88	1,245.89	1.69	-0.04	146.00
6,971.00	0.93	83.91	6,829.27	-408.75	-1,175.54	1,244.46	0.46	0.09	29.68
7,066.00	0.61	135.53	6,924.26	-409.03	-1,174.42	1,243.51	0.77	-0.34	54.34
7,161.00	0.78	128.27	7,019.26	-409.79	-1,173.55	1,242.96	0.20	0.18	-7.64
7,257.00	1.12	73.44	7,115.24	-409.92	-1,172.14	1,241.67	0.96	0.35	-57.11
7,352.00	0.88	85.14	7,210.23	-409.60	-1,170.53	1,240.04	0.33	-0.25	12.32
7,447.00	0.94	162.90	7,305.22	-410.28	-1,169.57	1,239.38	1.20	0.06	81.85
7,542.00	1.64	183.25	7,400.20	-412.38	-1,169.42	1,239.95	0.87	0.74	21.42
7,638.00	1.37	209.70	7,496.16	-414.75	-1,170.06	1,241.37	0.77	-0.28	27.55
7,733.00	1.89	205.35	7,591.13	-417.15	-1,171.30	1,243.34	0.56	0.55	-4.58
7,829.00	2.74	202.92	7,687.05	-420.70	-1,172.87	1,246.03	0.89	0.89	-2.53
7,924.00	3.44	206.85	7,781.91	-425.33	-1,175.04	1,249.65	0.77	0.74	4.14
8,019.00	2.77	206.24	7,876.77	-429.93	-1,177.34	1,253.38	0.71	-0.71	-0.64
8,114.00	3.08	207.10	7,971.64	-434.27	-1,179.52	1,256.91	0.33	0.33	0.91

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<b>Site:</b>	DOE 2-W-27 Pad	<b>MD Reference:</b>	KELLY BUSHING @ 5882.01ft (NABORS 576 (26' RKB) mab)
<b>Well:</b>	PA 333-27	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	Grand Junction District

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)
8,209.00	3.59	206.38	8,066.48	-439.20	-1,182.00	1,260.93	0.54	0.54	-0.76
8,304.00	3.98	208.60	8,161.28	-444.76	-1,184.90	1,265.55	0.44	0.41	2.34
8,400.00	4.16	213.89	8,257.03	-450.58	-1,188.44	1,270.85	0.43	0.19	5.51
8,479.00	4.15	211.86	8,335.83	-455.38	-1,191.55	1,275.41	0.19	-0.01	-2.57
<b>Last SDI Production MWD Survey</b>									
8,538.00	4.15	211.86	8,394.67	-459.01	-1,193.80	1,278.77	0.00	0.00	0.00
<b>Projection to Bit</b>									

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
88.00	88.00	-0.15	-0.22	First SDI Gyro MWD Survey
541.00	536.26	-19.34	-53.60	Last SDI Gyro MWD Survey
612.00	605.07	-25.51	-69.95	First SDI Surface MWD Survey
2,757.00	2,689.99	-196.59	-542.22	Last SDI Surface MWD Survey
2,876.00	2,805.05	-209.32	-569.76	First SDI Production MWD Survey
8,479.00	8,335.83	-455.38	-1,191.55	Last SDI Production MWD Survey
8,538.00	8,394.67	-459.01	-1,193.80	Projection to Bit

Checked By: _____	Approved By: _____	Date: _____
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