



## 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>	RU 532-7
<b>County &amp; State</b>	Garfield County, CO
<b>SDI Job No.</b>	420115DEF24661
<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 10,075 feet is true and correct as determined from all available records.

  
Signature

11-Feb-15  
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 RU 532-7 - Slot A01
<b>Project:</b>	Garfield County, CO NAD83	<b>TVD Reference:</b>	KELLY BUSHING @ 7943.02ft (Nabors 576 (26' RKB) kjs)
<b>Site:</b>	RU 44-7 Pad	<b>MD Reference:</b>	KELLY BUSHING @ 7943.02ft (Nabors 576 (26' RKB) kjs)
<b>Well:</b>	RU 532-7	<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		RU 44-7 Pad			
Site Position:		Northing:	1,598,795.69 usft	Latitude:	39° 27' 16.858 N
From:	Map	Easting:	2,347,575.10 usft	Longitude:	107° 48' 38.926 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	-1.46 °

Well	RU 532-7 - Slot A01					
Well Position	+N/-S	0.00 ft	Northing:	1,598,876.19 usft	Latitude:	39° 27' 17.652 N
	+E/-W	0.00 ft	Easting:	2,347,570.30 usft	Longitude:	107° 48' 39.013 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	0.00 ft	Ground Level:	7,917.02 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	1/1/2015	9.80	65.64	51,878

<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	325.93	

<b>Survey Program</b>	<b>Date</b>	2/11/2015			
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
125.00	1,302.00	Survey #1 - Surface MWD (Wellbore #1)	MWD SDI	MWD - Standard ver 1.0.1	
1,447.00	10,075.00	Survey #2 - 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	
125.00	1.84	341.37	124.98	1.90	-0.64	1.93	1.47	1.47	0.00	
<b>First SDI Surface MWD Survey</b>										
155.00	2.94	337.52	154.95	3.07	-1.09	3.15	3.70	3.67	-12.83	
246.00	4.57	332.30	245.75	8.44	-3.67	9.04	1.83	1.79	-5.74	
337.00	6.80	327.08	336.30	16.17	-8.28	18.03	2.51	2.45	-5.74	
428.00	8.74	325.07	426.46	26.36	-15.17	30.33	2.15	2.13	-2.21	
520.00	10.20	326.85	517.21	38.91	-23.62	45.47	1.62	1.59	1.93	

<b>Company:</b>	WPX Energy Rocky Mountain, LLC	<b>Local Co-ordinate Reference:</b>	Well RU 532-7 - Slot A01
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<b>Site:</b>	RU 44-7 Pad	<b>MD Reference:</b>	KELLY BUSHING @ 7943.02ft (Nabors 576 (26' RKB) kjs)
<b>Well:</b>	RU 532-7	<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)
615.00	11.87	327.95	610.45	54.24	-33.41	63.64	1.77	1.76	1.16
710.00	12.73	326.37	703.26	71.23	-44.39	83.87	0.97	0.91	-1.66
805.00	13.47	326.09	795.79	89.13	-56.36	105.41	0.78	0.78	-0.29
901.00	14.13	324.72	889.02	107.98	-69.37	128.30	0.77	0.69	-1.43
995.00	12.49	325.03	980.49	125.67	-81.82	149.94	1.75	-1.74	0.33
1,090.00	13.08	324.45	1,073.14	142.84	-93.96	170.96	0.64	0.62	-0.61
1,186.00	14.19	322.17	1,166.43	160.97	-107.49	193.56	1.28	1.16	-2.38
1,281.00	12.90	323.66	1,258.79	178.71	-120.92	215.77	1.41	-1.36	1.57
1,302.00	13.01	324.17	1,279.25	182.51	-123.69	220.48	0.76	0.52	2.43
Last SDI Surface MWD Survey									
1,447.00	13.22	325.88	1,420.47	209.47	-142.55	253.37	0.30	0.14	1.18
First SDI Production MWD Survey									
1,541.00	13.20	326.90	1,511.98	227.36	-154.44	274.85	0.25	-0.02	1.09
1,637.00	13.06	324.97	1,605.47	245.43	-166.65	296.66	0.48	-0.15	-2.01
1,732.00	12.65	324.22	1,698.09	262.66	-178.89	317.79	0.47	-0.43	-0.79
1,827.00	12.73	323.70	1,790.77	279.53	-191.17	338.64	0.15	0.08	-0.55
1,923.00	12.64	322.99	1,884.43	296.44	-203.75	359.70	0.19	-0.09	-0.74
2,018.00	12.75	326.29	1,977.11	313.46	-215.83	380.57	0.77	0.12	3.47
2,113.00	12.67	325.15	2,069.78	330.73	-227.60	401.47	0.28	-0.08	-1.20
2,208.00	12.51	324.74	2,162.50	347.68	-239.49	422.17	0.19	-0.17	-0.43
2,304.00	11.90	322.46	2,256.33	364.02	-251.53	442.45	0.81	-0.64	-2.38
2,398.00	12.80	327.01	2,348.15	380.44	-263.10	462.53	1.41	0.96	4.84
2,493.00	12.64	325.50	2,440.82	397.83	-274.72	483.45	0.39	-0.17	-1.59
2,588.00	12.07	325.78	2,533.62	414.61	-286.19	503.77	0.60	-0.60	0.29
2,683.00	11.64	324.92	2,626.59	430.67	-297.29	523.29	0.49	-0.45	-0.91
2,779.00	12.65	324.39	2,720.44	447.14	-308.97	543.48	1.06	1.05	-0.55
2,874.00	13.01	327.10	2,813.07	464.58	-320.84	564.57	0.74	0.38	2.85
2,970.00	12.57	327.11	2,906.69	482.42	-332.38	585.82	0.46	-0.46	0.01
3,065.00	12.03	327.84	2,999.51	499.48	-343.26	606.05	0.59	-0.57	0.77
3,160.00	13.48	327.76	3,092.16	517.23	-354.44	627.01	1.53	1.53	-0.08
3,255.00	13.46	326.39	3,184.55	535.80	-366.47	649.13	0.34	-0.02	-1.44
3,350.00	13.13	326.50	3,277.00	554.01	-378.54	670.98	0.35	-0.35	0.12
3,446.00	12.76	327.40	3,370.56	572.03	-390.27	692.48	0.44	-0.39	0.94
3,541.00	12.49	326.90	3,463.27	589.48	-401.54	713.24	0.31	-0.28	-0.53
3,637.00	13.54	326.37	3,556.80	607.53	-413.43	734.86	1.10	1.09	-0.55
3,731.00	13.36	324.81	3,648.22	625.57	-425.78	756.72	0.43	-0.19	-1.66
3,826.00	13.01	325.05	3,740.72	643.30	-438.23	778.38	0.37	-0.37	0.25
3,919.00	12.57	325.05	3,831.41	660.18	-450.03	798.97	0.47	-0.47	0.00
4,015.00	13.10	325.41	3,925.01	677.70	-462.19	820.29	0.56	0.55	0.38
4,110.00	12.93	325.67	4,017.57	695.34	-474.29	841.69	0.19	-0.18	0.27
4,205.00	12.42	325.56	4,110.25	712.54	-486.07	862.53	0.54	-0.54	-0.12
4,299.00	11.94	327.63	4,202.14	729.09	-496.99	882.36	0.69	-0.51	2.20

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<b>Well:</b>	RU 532-7	<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)	
4,395.00	11.34	327.04	4,296.16	745.40	-507.44	901.72	0.64	-0.63	-0.61	
4,489.00	12.66	326.60	4,388.11	761.75	-518.14	921.27	1.41	1.40	-0.47	
4,584.00	12.53	324.96	4,480.82	778.88	-529.79	941.98	0.40	-0.14	-1.73	
4,680.00	12.11	325.86	4,574.61	795.74	-541.42	962.46	0.48	-0.44	0.94	
4,776.00	11.56	324.17	4,668.57	811.88	-552.70	982.15	0.68	-0.57	-1.76	
4,871.00	12.92	326.68	4,761.41	828.47	-564.11	1,002.28	1.54	1.43	2.64	
4,966.00	12.37	325.46	4,854.10	845.72	-575.71	1,023.08	0.64	-0.58	-1.28	
5,062.00	11.76	324.88	4,947.98	862.20	-587.17	1,043.14	0.65	-0.64	-0.60	
5,157.00	12.93	326.02	5,040.79	878.93	-598.68	1,063.45	1.26	1.23	1.20	
5,253.00	12.89	325.29	5,134.36	896.64	-610.78	1,084.90	0.17	-0.04	-0.76	
5,349.00	12.66	326.21	5,227.98	914.18	-622.73	1,106.12	0.32	-0.24	0.96	
5,445.00	12.13	324.53	5,321.75	931.14	-634.43	1,126.73	0.67	-0.55	-1.75	
5,540.00	11.93	325.47	5,414.66	947.36	-645.79	1,146.52	0.29	-0.21	0.99	
5,636.00	11.50	323.86	5,508.66	963.26	-657.06	1,166.01	0.56	-0.45	-1.68	
5,731.00	11.08	326.55	5,601.82	978.53	-667.67	1,184.60	0.71	-0.44	2.83	
5,826.00	12.07	325.32	5,694.89	994.31	-678.36	1,203.66	1.07	1.04	-1.29	
5,921.00	13.01	322.86	5,787.62	1,011.00	-690.46	1,224.27	1.14	0.99	-2.59	
6,016.00	12.74	322.03	5,880.23	1,027.79	-703.37	1,245.40	0.34	-0.28	-0.87	
6,111.00	12.32	324.56	5,972.97	1,044.30	-715.69	1,265.98	0.73	-0.44	2.66	
6,206.00	12.73	329.63	6,065.71	1,061.59	-726.86	1,286.56	1.23	0.43	5.34	
6,301.00	12.05	330.50	6,158.50	1,079.25	-737.03	1,306.89	0.74	-0.72	0.92	
6,396.00	11.83	331.30	6,251.44	1,096.42	-746.59	1,326.47	0.29	-0.23	0.84	
6,491.00	11.17	330.68	6,344.54	1,112.99	-755.77	1,345.34	0.71	-0.69	-0.65	
6,586.00	11.08	329.27	6,437.75	1,128.86	-764.94	1,363.62	0.30	-0.09	-1.48	
6,682.00	10.16	329.94	6,532.11	1,144.12	-773.90	1,381.28	0.97	-0.96	0.70	
6,776.00	8.98	328.17	6,624.80	1,157.53	-781.92	1,396.88	1.29	-1.26	-1.88	
6,872.00	8.35	330.68	6,719.70	1,169.97	-789.29	1,411.31	0.77	-0.66	2.61	
6,967.00	7.59	331.54	6,813.78	1,181.50	-795.65	1,424.43	0.81	-0.80	0.91	
7,062.00	6.86	331.21	6,908.03	1,191.99	-801.38	1,436.32	0.77	-0.77	-0.35	
7,158.00	6.06	330.65	7,003.42	1,201.43	-806.62	1,447.08	0.84	-0.83	-0.58	
7,253.00	5.53	331.77	7,097.93	1,209.83	-811.24	1,456.63	0.57	-0.56	1.18	
7,349.00	4.17	345.07	7,193.59	1,217.28	-814.33	1,464.53	1.83	-1.42	13.85	
7,444.00	2.29	24.47	7,288.44	1,222.35	-814.44	1,468.79	2.95	-1.98	41.47	
7,540.00	1.85	33.78	7,384.38	1,225.38	-812.78	1,470.37	0.58	-0.46	9.70	
7,634.00	1.49	32.91	7,478.34	1,227.67	-811.27	1,471.42	0.38	-0.38	-0.93	
7,730.00	1.49	31.15	7,574.31	1,229.78	-809.95	1,472.43	0.05	0.00	-1.83	
7,826.00	1.17	72.63	7,670.28	1,231.15	-808.37	1,472.67	1.03	-0.33	43.21	
7,922.00	0.88	82.36	7,766.27	1,231.54	-806.70	1,472.07	0.35	-0.30	10.14	
8,018.00	0.44	80.01	7,862.26	1,231.70	-805.61	1,471.59	0.46	-0.46	-2.45	
8,113.00	0.41	87.80	7,957.26	1,231.77	-804.91	1,471.26	0.07	-0.03	8.20	
8,208.00	0.24	139.44	8,052.26	1,231.64	-804.44	1,470.88	0.34	-0.18	54.36	
8,303.00	0.32	173.31	8,147.26	1,231.22	-804.28	1,470.45	0.19	0.08	35.65	

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<b>Design:</b>	Wellbore #1	<b>Database:</b>	Grand Junction District

Survey										
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8,399.00	0.34	174.20	8,243.26	1,230.67	-804.22	1,469.96	0.02	0.02	0.93	
8,494.00	0.43	199.22	8,338.25	1,230.06	-804.31	1,469.50	0.20	0.09	26.34	
8,589.00	0.77	235.53	8,433.25	1,229.36	-804.95	1,469.28	0.52	0.36	38.22	
8,685.00	0.88	248.76	8,529.24	1,228.73	-806.17	1,469.44	0.23	0.11	13.78	
8,780.00	0.88	116.08	8,624.23	1,228.14	-806.20	1,468.97	1.70	0.00	-139.66	
8,875.00	0.68	115.00	8,719.23	1,227.58	-805.03	1,467.85	0.21	-0.21	-1.14	
8,970.00	0.48	134.84	8,814.22	1,227.06	-804.24	1,466.98	0.30	-0.21	20.88	
9,065.00	0.61	161.11	8,909.22	1,226.30	-803.79	1,466.10	0.29	0.14	27.65	
9,161.00	0.74	189.96	9,005.21	1,225.21	-803.73	1,465.16	0.37	0.14	30.05	
9,256.00	1.25	198.52	9,100.20	1,223.62	-804.17	1,464.09	0.56	0.54	9.01	
9,351.00	1.25	206.75	9,195.17	1,221.71	-804.96	1,462.96	0.19	0.00	8.66	
9,446.00	0.98	216.24	9,290.15	1,220.13	-805.91	1,462.18	0.34	-0.28	9.99	
9,542.00	0.77	231.36	9,386.14	1,219.07	-806.90	1,461.85	0.32	-0.22	15.75	
9,637.00	1.27	236.29	9,481.13	1,218.09	-808.27	1,461.80	0.53	0.53	5.19	
9,733.00	1.57	252.06	9,577.10	1,217.09	-810.41	1,462.18	0.51	0.31	16.43	
9,828.00	1.85	255.09	9,672.06	1,216.30	-813.13	1,463.04	0.31	0.29	3.19	
9,923.00	1.75	262.74	9,767.01	1,215.72	-816.05	1,464.20	0.27	-0.11	8.05	
10,019.00	2.33	261.81	9,862.95	1,215.25	-819.44	1,465.71	0.61	0.60	-0.97	
Last SDI Production MWD Survey										
10,075.00	2.37	261.29	9,918.90	1,214.92	-821.71	1,466.71	0.08	0.07	-0.93	
Projection to TD										

Design Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
125.00	124.98	1.90	-0.64	First SDI Surface MWD Survey	
1,302.00	1,279.25	182.51	-123.69	Last SDI Surface MWD Survey	
1,447.00	1,420.47	209.47	-142.55	First SDI Production MWD Survey	
10,019.00	9,862.95	1,215.25	-819.44	Last SDI Production MWD Survey	
10,075.00	9,918.90	1,214.92	-821.71	Projection to TD	

Checked By: _____	Approved By: _____	Date: _____
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