



## Directional Survey Certification

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

<b>Operator</b>	<u>WPX Energy Rocky Mountain, LLC.</u>
<b>Well Name &amp; No.</b>	<u>RGU 33-23-198</u>
<b>County &amp; State</b>	<u>Rio Blanco County, CO</u>
<b>SDI Job No.</b>	<u>420115DEFMPK246835</u>
<b>Rig</b>	<u>Aztec 1000</u>

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 12,858 feet is true and correct as determined from all available records.

  
Signature

20-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 RGU 33-23-198
<b>Project:</b>	Rio Blanco County, CO NAD83	<b>TVD Reference:</b>	KB @ 6592.01ft (Aztec 1000)
<b>Site:</b>	RGU 43-23-198 Pad	<b>MD Reference:</b>	KB @ 6592.01ft (Aztec 1000)
<b>Well:</b>	RGU 33-23-198	<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>	Rio Blanco County, CO NAD83, Rio Blanco County, CO, NAD 1983		
<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		Using geodetic scale factor

<b>Site</b>	RGU 43-23-198 Pad				
<b>Site Position:</b>		<b>Northing:</b>	1,781,556.00 usft	<b>Latitude:</b>	39.9446860
<b>From:</b>	Map	<b>Easting:</b>	2,199,927.00 usft	<b>Longitude:</b>	-108.3537828
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	13.200 in	<b>Grid Convergence:</b>	-1.80 °

<b>Well</b>	RGU 33-23-198					
<b>Well Position</b>	<b>+N/-S</b>	0.00 ft	<b>Northing:</b>	1,781,577.00 usft	<b>Latitude:</b>	39.9447472
	<b>+E/-W</b>	0.00 ft	<b>Easting:</b>	2,199,968.10 usft	<b>Longitude:</b>	-108.3536387
<b>Position Uncertainty</b>		0.00 ft	<b>Wellhead Elevation:</b>	ft	<b>Ground Level:</b>	6,567.01 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	6/27/2012	10.44	66.01	52,337

<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	318.93	

<b>Survey Program</b>	<b>Date</b>	2/20/2015			
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
82.00	1,543.00	Survey #1 - Gyro MWD (Wellbore #1)	SDI Gyro MWD 104	SDI Gyro MWD Error Model Ver 1.0.4	
1,629.00	3,989.00	Survey #2 - Surface MWD (Wellbore #1)	MWD SDI	MWD - Standard ver 1.0.1	
4,092.00	12,858.00	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	
82.00	0.35	321.24	82.00	0.20	-0.16	0.25	0.43	0.43	0.00	
<b>First SDI Gyro MWD Survey</b>										
173.00	1.06	331.52	172.99	1.15	-0.73	1.35	0.79	0.78	11.30	
263.00	2.73	327.04	262.94	3.68	-2.30	4.28	1.86	1.86	-4.98	
354.00	4.84	318.34	353.74	8.37	-6.03	10.27	2.40	2.32	-9.56	
446.00	6.86	313.86	445.25	15.08	-12.57	19.62	2.25	2.20	-4.87	
536.00	9.33	319.31	534.35	24.33	-21.20	32.28	2.87	2.74	6.06	
627.00	12.05	322.21	623.76	37.44	-31.83	49.14	3.05	2.99	3.19	

<b>Company:</b>	WPX Energy Rocky Mountain, LLC	<b>Local Co-ordinate Reference:</b>	Well RGU 33-23-198
<b>Project:</b>	Rio Blanco County, CO NAD83	<b>TVD Reference:</b>	KB @ 6592.01ft (Aztec 1000)
<b>Site:</b>	RGU 43-23-198 Pad	<b>MD Reference:</b>	KB @ 6592.01ft (Aztec 1000)
<b>Well:</b>	RGU 33-23-198	<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)	
717.00	15.31	318.78	711.20	53.80	-45.42	70.41	3.73	3.62	-3.81	
<b>Last SDI Gyro MWD Survey</b>										
1,629.00	17.51	314.84	1,586.02	241.14	-222.08	327.69	0.27	0.24	-0.43	
1,723.00	17.62	314.63	1,675.64	261.11	-242.23	355.99	0.14	0.12	-0.22	
1,819.00	18.92	316.09	1,766.80	282.53	-263.36	386.02	1.44	1.35	1.52	
1,914.00	19.51	316.46	1,856.51	305.12	-284.97	417.25	0.63	0.62	0.39	
2,008.00	18.08	318.31	1,945.49	327.39	-305.49	447.52	1.65	-1.52	1.97	
2,103.00	18.66	319.58	2,035.65	349.97	-325.15	477.46	0.74	0.61	1.34	
2,198.00	19.20	320.67	2,125.51	373.63	-344.90	508.27	0.68	0.57	1.15	
2,293.00	20.18	320.98	2,214.96	398.44	-365.12	540.26	1.04	1.03	0.33	
2,388.00	19.31	322.26	2,304.37	423.59	-385.05	572.32	1.02	-0.92	1.35	
2,483.00	18.65	323.32	2,394.21	448.20	-403.74	603.15	0.78	-0.69	1.12	
2,578.00	19.18	323.59	2,484.08	472.94	-422.07	633.85	0.57	0.56	0.28	
2,673.00	18.40	322.09	2,574.01	497.33	-440.55	664.37	0.97	-0.82	-1.58	
2,768.00	16.81	322.11	2,664.56	520.00	-458.20	693.06	1.67	-1.67	0.02	
2,863.00	16.27	320.90	2,755.63	541.17	-475.03	720.07	0.67	-0.57	-1.27	
2,957.00	16.78	320.13	2,845.75	561.80	-492.03	746.80	0.59	0.54	-0.82	
3,052.00	17.57	319.96	2,936.51	583.30	-510.05	774.85	0.83	0.83	-0.18	
3,147.00	17.06	322.03	3,027.21	605.27	-527.85	803.10	0.84	-0.54	2.18	
3,242.00	16.87	322.47	3,118.07	627.18	-544.82	830.77	0.24	-0.20	0.46	
3,337.00	17.14	322.80	3,208.92	649.27	-561.68	858.50	0.30	0.28	0.35	
3,432.00	17.36	320.04	3,299.65	671.28	-579.24	886.64	0.89	0.23	-2.91	
3,527.00	17.24	317.93	3,390.35	692.59	-597.78	914.88	0.67	-0.13	-2.22	
3,622.00	17.86	320.87	3,480.93	714.35	-616.41	943.52	1.14	0.65	3.09	
3,717.00	18.00	318.89	3,571.32	736.71	-635.25	972.76	0.66	0.15	-2.08	
3,811.00	18.27	319.41	3,660.65	758.84	-654.39	1,002.01	0.33	0.29	0.55	
3,906.00	18.89	318.92	3,750.70	781.74	-674.18	1,032.28	0.67	0.65	-0.52	
3,989.00	18.79	317.03	3,829.25	801.65	-692.12	1,059.08	0.75	-0.12	-2.28	
<b>Last SDI Surface MWD Survey</b>										
4,092.00	18.08	315.58	3,926.96	825.20	-714.61	1,091.61	0.82	-0.69	-1.41	
<b>First SDI Production MWD Survey</b>										
4,187.00	18.63	317.47	4,017.13	846.91	-735.19	1,121.50	0.85	0.58	1.99	
4,282.00	18.58	316.73	4,107.17	869.11	-755.82	1,151.79	0.25	-0.05	-0.78	
4,377.00	17.91	317.47	4,197.39	890.90	-776.07	1,181.52	0.75	-0.71	0.78	
4,472.00	16.17	321.22	4,288.22	911.98	-794.23	1,209.34	2.17	-1.83	3.95	
4,567.00	16.46	319.19	4,379.39	932.48	-811.31	1,236.02	0.67	0.31	-2.14	
4,662.00	16.77	317.29	4,470.43	952.74	-829.41	1,263.18	0.66	0.33	-2.00	
4,757.00	16.72	317.54	4,561.40	972.89	-847.93	1,290.54	0.09	-0.05	0.26	
4,852.00	17.10	315.99	4,652.29	993.01	-866.86	1,318.15	0.62	0.40	-1.63	
4,947.00	17.30	317.69	4,743.04	1,013.51	-886.07	1,346.22	0.57	0.21	1.79	
5,043.00	16.59	321.25	4,834.88	1,034.75	-904.26	1,374.18	1.31	-0.74	3.71	
5,137.00	15.68	320.09	4,925.18	1,054.96	-920.81	1,400.29	1.03	-0.97	-1.23	
5,233.00	15.26	317.60	5,017.70	1,074.24	-937.65	1,425.89	0.82	-0.44	-2.59	
5,327.00	15.43	318.35	5,108.35	1,092.72	-954.30	1,450.77	0.28	0.18	0.80	

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<b>Site:</b>	RGU 43-23-198 Pad	<b>MD Reference:</b>	KB @ 6592.01ft (Aztec 1000)
<b>Well:</b>	RGU 33-23-198	<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)	
5,423.00	15.44	317.36	5,200.88	1,111.66	-971.44	1,476.31	0.27	0.01	-1.03	
5,518.00	15.24	320.02	5,292.50	1,130.53	-988.03	1,501.44	0.77	-0.21	2.80	
5,612.00	15.61	320.35	5,383.12	1,149.74	-1,004.04	1,526.43	0.40	0.39	0.35	
5,708.00	16.62	317.35	5,475.34	1,169.78	-1,021.58	1,553.07	1.36	1.05	-3.13	
5,803.00	16.87	321.29	5,566.32	1,190.53	-1,039.41	1,580.42	1.22	0.26	4.15	
5,898.00	15.98	320.42	5,657.44	1,211.37	-1,056.36	1,607.27	0.97	-0.94	-0.92	
5,992.00	15.01	318.86	5,748.02	1,230.51	-1,072.62	1,632.38	1.12	-1.03	-1.66	
6,087.00	14.27	318.48	5,839.94	1,248.54	-1,088.47	1,656.39	0.79	-0.78	-0.40	
6,182.00	13.49	317.49	5,932.16	1,265.47	-1,103.72	1,679.17	0.86	-0.82	-1.04	
6,277.00	11.60	319.06	6,024.89	1,280.86	-1,117.47	1,699.80	2.02	-1.99	1.65	
6,372.00	10.78	316.88	6,118.09	1,294.56	-1,129.80	1,718.23	0.97	-0.86	-2.29	
6,467.00	10.28	315.38	6,211.49	1,307.08	-1,141.83	1,735.57	0.60	-0.53	-1.58	
6,562.00	10.73	318.52	6,304.89	1,319.74	-1,153.64	1,752.88	0.77	0.47	3.31	
6,657.00	10.04	318.27	6,398.34	1,332.54	-1,165.01	1,770.00	0.73	-0.73	-0.26	
6,752.00	9.35	317.10	6,491.98	1,344.37	-1,175.77	1,785.99	0.76	-0.73	-1.23	
6,847.00	8.29	314.58	6,585.85	1,354.84	-1,185.90	1,800.54	1.19	-1.12	-2.65	
6,942.00	7.13	313.25	6,679.99	1,363.68	-1,195.08	1,813.23	1.24	-1.22	-1.40	
7,037.00	7.06	317.04	6,774.27	1,371.99	-1,203.35	1,824.93	0.50	-0.07	3.99	
7,132.00	5.96	321.42	6,868.65	1,380.12	-1,210.40	1,835.70	1.27	-1.16	4.61	
7,227.00	4.28	329.49	6,963.27	1,387.03	-1,215.28	1,844.11	1.92	-1.77	8.49	
7,322.00	1.95	355.11	7,058.13	1,391.70	-1,217.22	1,848.90	2.80	-2.45	26.97	
7,417.00	1.75	2.39	7,153.08	1,394.76	-1,217.30	1,851.26	0.32	-0.21	7.66	
7,511.00	1.38	38.33	7,247.05	1,397.08	-1,216.53	1,852.51	1.09	-0.39	38.23	
7,606.00	1.05	34.26	7,342.03	1,398.70	-1,215.33	1,852.94	0.36	-0.35	-4.28	
7,701.00	1.01	10.17	7,437.01	1,400.24	-1,214.70	1,853.68	0.45	-0.04	-25.36	
7,796.00	0.75	13.75	7,532.00	1,401.67	-1,214.40	1,854.57	0.28	-0.27	3.77	
7,891.00	0.57	344.08	7,626.99	1,402.73	-1,214.38	1,855.35	0.40	-0.19	-31.23	
7,986.00	0.57	0.07	7,721.99	1,403.65	-1,214.51	1,856.14	0.17	0.00	16.83	
8,081.00	0.67	337.38	7,816.98	1,404.64	-1,214.73	1,857.02	0.28	0.11	-23.88	
8,175.00	0.71	334.00	7,910.98	1,405.67	-1,215.19	1,858.10	0.06	0.04	-3.60	
8,240.00	0.71	317.50	7,975.97	1,406.33	-1,215.64	1,858.89	0.31	0.00	-25.38	
8,365.00	0.88	308.59	8,100.96	1,407.50	-1,216.91	1,860.61	0.17	0.14	-7.13	
8,460.00	0.85	309.60	8,195.95	1,408.40	-1,218.03	1,862.03	0.04	-0.03	1.06	
8,555.00	1.01	318.34	8,290.94	1,409.48	-1,219.13	1,863.56	0.22	0.17	9.20	
8,651.00	0.93	334.22	8,386.92	1,410.81	-1,220.03	1,865.16	0.29	-0.08	16.54	
8,746.00	0.36	309.23	8,481.92	1,411.69	-1,220.59	1,866.19	0.66	-0.60	-26.31	
8,841.00	0.07	169.64	8,576.92	1,411.83	-1,220.82	1,866.44	0.44	-0.31	-146.94	
8,936.00	0.29	148.41	8,671.92	1,411.56	-1,220.68	1,866.15	0.24	0.23	-22.35	
9,030.00	0.42	157.99	8,765.91	1,411.04	-1,220.42	1,865.59	0.15	0.14	10.19	
9,135.00	0.56	179.76	8,870.91	1,410.17	-1,220.28	1,864.84	0.22	0.13	20.73	
9,220.00	0.69	200.58	8,955.91	1,409.28	-1,220.46	1,864.28	0.31	0.15	24.49	
9,409.00	0.58	193.08	9,144.89	1,407.28	-1,221.07	1,863.18	0.07	-0.06	-3.97	
9,504.00	1.15	192.14	9,239.88	1,405.88	-1,221.38	1,862.33	0.60	0.60	-0.99	

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<b>Well:</b>	RGU 33-23-198	<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)	
9,599.00	1.27	193.12	9,334.86	1,403.92	-1,221.82	1,861.14	0.13	0.13	1.03	
9,694.00	1.03	179.44	9,429.84	1,402.04	-1,222.05	1,859.88	0.38	-0.25	-14.40	
9,788.00	0.93	160.84	9,523.83	1,400.48	-1,221.79	1,858.53	0.35	-0.11	-19.79	
9,883.00	0.87	172.81	9,618.82	1,399.03	-1,221.45	1,857.21	0.21	-0.06	12.60	
9,978.00	1.12	184.46	9,713.80	1,397.39	-1,221.43	1,855.96	0.34	0.26	12.26	
10,073.00	0.48	260.27	9,808.80	1,396.40	-1,221.90	1,855.52	1.16	-0.67	79.80	
10,169.00	1.20	259.11	9,904.78	1,396.14	-1,223.28	1,856.23	0.75	0.75	-1.21	
10,264.00	0.92	271.38	9,999.77	1,395.97	-1,225.02	1,857.25	0.38	-0.29	12.92	
10,359.00	0.92	245.54	10,094.76	1,395.68	-1,226.48	1,857.98	0.43	0.00	-27.20	
10,454.00	1.18	245.54	10,189.74	1,394.95	-1,228.06	1,858.48	0.27	0.27	0.00	
10,549.00	0.94	241.82	10,284.72	1,394.18	-1,229.64	1,858.93	0.26	-0.25	-3.92	
10,645.00	1.41	241.64	10,380.70	1,393.25	-1,231.37	1,859.37	0.49	0.49	-0.19	
10,740.00	0.92	261.87	10,475.68	1,392.59	-1,233.16	1,860.04	0.67	-0.52	21.29	
10,835.00	1.17	327.81	10,570.67	1,393.30	-1,234.43	1,861.41	1.22	0.26	69.41	
10,931.00	1.43	320.54	10,666.65	1,395.05	-1,235.71	1,863.58	0.32	0.27	-7.57	
11,026.00	2.23	265.36	10,761.60	1,395.82	-1,238.31	1,865.86	1.93	0.84	-58.08	
11,121.00	0.92	242.40	10,856.57	1,395.32	-1,240.82	1,867.14	1.50	-1.38	-24.17	
11,216.00	0.69	40.29	10,951.56	1,395.40	-1,241.13	1,867.40	1.66	-0.24	166.20	
11,311.00	0.18	130.62	11,046.56	1,395.74	-1,240.65	1,867.34	0.75	-0.54	95.08	
11,406.00	0.90	296.33	11,141.56	1,395.97	-1,241.20	1,867.88	1.13	0.76	174.43	
11,501.00	0.84	320.57	11,236.55	1,396.84	-1,242.31	1,869.26	0.39	-0.06	25.52	
11,596.00	1.28	314.73	11,331.53	1,398.13	-1,243.51	1,871.02	0.48	0.46	-6.15	
11,692.00	1.54	300.80	11,427.50	1,399.54	-1,245.38	1,873.31	0.45	0.27	-14.51	
11,787.00	0.33	349.54	11,522.49	1,400.46	-1,246.53	1,874.76	1.42	-1.27	51.31	
11,882.00	0.31	248.24	11,617.49	1,400.64	-1,246.81	1,875.08	0.52	-0.02	-106.63	
11,977.00	1.15	236.63	11,712.48	1,400.02	-1,247.85	1,875.29	0.89	0.88	-12.22	
12,072.00	1.25	237.86	11,807.46	1,398.94	-1,249.52	1,875.58	0.11	0.11	1.29	
12,167.00	1.41	249.23	11,902.43	1,397.98	-1,251.49	1,876.15	0.32	0.17	11.97	
12,262.00	1.62	257.66	11,997.40	1,397.27	-1,253.90	1,877.20	0.32	0.22	8.87	
12,357.00	2.17	249.40	12,092.35	1,396.35	-1,256.89	1,878.47	0.64	0.58	-8.69	
12,452.00	2.07	252.00	12,187.28	1,395.19	-1,260.21	1,879.78	0.15	-0.11	2.74	
12,547.00	1.71	253.60	12,282.23	1,394.26	-1,263.20	1,881.04	0.38	-0.38	1.68	
12,642.00	2.21	247.68	12,377.17	1,393.17	-1,266.25	1,882.22	0.57	0.53	-6.23	
12,737.00	2.24	241.20	12,472.10	1,391.58	-1,269.58	1,883.20	0.27	0.03	-6.82	
12,801.00	2.58	236.98	12,536.05	1,390.19	-1,271.88	1,883.67	0.60	0.53	-6.59	
<b>Last SDI Production MWD Survey</b>										
12,858.00	2.58	236.98	12,592.99	1,388.79	-1,274.03	1,884.03	0.00	0.00	0.00	
<b>Projection to TD</b>										

<b>Company:</b>	WPX Energy Rocky Mountain, LLC	<b>Local Co-ordinate Reference:</b>	Well RGU 33-23-198
<b>Project:</b>	Rio Blanco County, CO NAD83	<b>TVD Reference:</b>	KB @ 6592.01ft (Aztec 1000)
<b>Site:</b>	RGU 43-23-198 Pad	<b>MD Reference:</b>	KB @ 6592.01ft (Aztec 1000)
<b>Well:</b>	RGU 33-23-198	<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

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
82.00	82.00	0.20	-0.16	First SDI Gyro MWD Survey
717.00	711.20	53.80	-45.42	Last SDI Gyro MWD Survey
3,989.00	3,829.25	801.65	-692.12	Last SDI Surface MWD Survey
4,092.00	3,926.96	825.20	-714.61	First SDI Production MWD Survey
12,801.00	12,536.05	1,390.19	-1,271.88	Last SDI Production MWD Survey
12,858.00	12,592.99	1,388.79	-1,274.03	Projection to TD

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_