

Company:	WPX Energy Rocky Mountain, LLC	Local Co-ordinate Reference:	Well RGU 31-26-198
Project:	Rio Blanco County, CO NAD83	TVD Reference:	KB @ 6592.01ft (Aztec 1000)
Site:	RGU 43-23-198 Pad	MD Reference:	KB @ 6592.01ft (Aztec 1000)
Well:	RGU 31-26-198	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Grand Junction District

Project	Rio Blanco County, CO NAD83, Rio Blanco County, CO, NAD 1983		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Central Zone		Using geodetic scale factor

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

Well	RGU 31-26-198		
Well Position	+N/-S	0.00 ft	Northing:
	+E/-W	0.00 ft	Easting:
Position Uncertainty	0.00 ft		Wellhead Elevation:
			Latitude:
			Longitude:
			Ground Level:

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2010	1/18/2013	10.36
			Dip Angle
			(°)
			66.00
			Field Strength
			(nT)
			52,281

Design	Wellbore #1		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(ft)	(ft)	(ft)
	0.00	0.00	0.00
			Direction
			(°)
			222.68

Survey Program	Date	9/11/2014		
From	To	Survey (Wellbore)	Tool Name	Description
(ft)	(ft)			
161.00	3,874.00	Survey #1 - Surface MWD (Wellbore #1)	MWD SDI	MWD - Standard ver 1.0.1
4,006.00	12,737.00	Survey #2 - Production MWD (Wellbore #1)	MWD SDI	MWD - Standard ver 1.0.1

Survey									
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Vertical	Dogleg	Build	Turn
Depth	(°)	(°)	Depth	(ft)	(ft)	Section	Rate	Rate	Rate
(ft)			(ft)			(ft)	(°/100ft)	(°/100ft)	(°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
161.00	1.80	204.67	160.97	-2.30	-1.06	2.40	1.12	1.12	0.00
First SDI Surface MWD Survey									
251.00	3.12	204.57	250.89	-5.81	-2.66	6.08	1.47	1.47	-0.11
342.00	4.33	211.17	341.70	-11.00	-5.47	11.80	1.41	1.33	7.25
433.00	5.17	223.45	432.38	-16.92	-10.07	19.26	1.44	0.92	13.49
523.00	5.60	225.55	521.99	-22.94	-15.99	27.70	0.53	0.48	2.33
613.00	6.08	221.79	611.52	-29.57	-22.30	36.86	0.68	0.53	-4.18
703.00	5.16	228.62	701.09	-35.80	-28.52	45.65	1.26	-1.02	7.59
794.00	5.59	228.16	791.69	-41.46	-34.89	54.13	0.47	0.47	-0.51

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Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	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)
885.00	6.09	231.42	882.21	-47.42	-41.97	63.31	0.66	0.55	3.58
977.00	5.24	225.67	973.77	-53.40	-48.79	72.33	1.11	-0.92	-6.25
1,072.00	5.61	225.27	1,068.34	-59.70	-55.19	81.30	0.39	0.39	-0.42
1,167.00	5.07	218.51	1,162.93	-66.25	-61.10	90.13	0.87	-0.57	-7.12
1,262.00	5.51	217.76	1,257.52	-73.15	-66.51	98.86	0.47	0.46	-0.79
1,356.00	4.29	214.21	1,351.18	-79.62	-71.25	106.83	1.34	-1.30	-3.78
1,451.00	4.32	213.51	1,445.91	-85.54	-75.22	113.88	0.06	0.03	-0.74
1,546.00	5.01	214.06	1,540.59	-91.96	-79.52	121.51	0.73	0.73	0.58
1,641.00	5.61	211.86	1,635.19	-99.34	-84.29	130.17	0.67	0.63	-2.32
1,732.00	5.45	218.90	1,725.76	-106.48	-89.36	138.86	0.77	-0.18	7.74
1,827.00	5.85	215.28	1,820.30	-113.95	-94.98	148.16	0.56	0.42	-3.81
1,922.00	6.33	221.83	1,914.77	-121.80	-101.27	158.20	0.89	0.51	6.89
2,017.00	6.74	227.16	2,009.15	-129.49	-108.85	168.99	0.77	0.43	5.61
2,112.00	7.22	229.76	2,103.45	-137.14	-117.50	180.47	0.60	0.51	2.74
2,207.00	7.20	230.06	2,197.70	-144.82	-126.62	192.30	0.04	-0.02	0.32
2,302.00	7.24	231.29	2,291.94	-152.39	-135.86	204.12	0.17	0.04	1.29
2,397.00	7.56	232.86	2,386.15	-159.90	-145.51	216.19	0.40	0.34	1.65
2,492.00	7.61	234.52	2,480.32	-167.33	-155.61	228.50	0.24	0.05	1.75
2,587.00	7.34	224.21	2,574.52	-175.33	-164.97	240.72	1.44	-0.28	-10.85
2,682.00	7.52	225.05	2,668.72	-184.07	-173.60	253.00	0.22	0.19	0.88
2,777.00	8.16	218.58	2,762.83	-193.73	-182.20	265.94	1.15	0.67	-6.81
2,871.00	8.55	219.52	2,855.83	-204.34	-190.81	279.57	0.44	0.41	1.00
2,966.00	8.96	221.41	2,949.73	-215.33	-200.20	294.02	0.53	0.43	1.99
3,061.00	8.42	218.65	3,043.64	-226.31	-209.43	308.35	0.72	-0.57	-2.91
3,156.00	9.37	219.14	3,137.49	-237.74	-218.66	323.01	1.00	1.00	0.52
3,251.00	10.08	214.40	3,231.13	-250.60	-228.24	338.95	1.13	0.75	-4.99
3,345.00	9.80	214.71	3,323.72	-263.97	-237.44	355.02	0.30	-0.30	0.33
3,440.00	10.53	214.23	3,417.23	-277.79	-246.93	371.61	0.77	0.77	-0.51
3,535.00	10.34	219.89	3,510.66	-291.51	-257.28	388.71	1.10	-0.20	5.96
3,630.00	11.02	223.96	3,604.01	-304.59	-269.05	406.31	1.07	0.72	4.28
3,725.00	11.28	223.98	3,697.22	-317.81	-281.80	424.67	0.27	0.27	0.02
3,820.00	10.88	222.60	3,790.45	-331.09	-294.33	442.93	0.51	-0.42	-1.45
3,874.00	11.08	222.46	3,843.46	-338.67	-301.28	453.21	0.37	0.37	-0.26
Last SDI Surface MWD Survey									
4,006.00	10.52	213.57	3,973.13	-358.07	-316.50	477.80	1.33	-0.42	-6.73
First SDI Production MWD Survey									
4,101.00	12.48	212.42	4,066.22	-373.97	-326.80	496.46	2.08	2.06	-1.21
4,196.00	12.98	218.27	4,158.89	-391.01	-338.92	517.20	1.45	0.53	6.16
4,291.00	14.79	221.59	4,251.11	-408.45	-353.57	539.96	2.08	1.91	3.49
4,386.00	17.98	228.38	4,342.25	-427.27	-372.59	566.69	3.91	3.36	7.15
4,480.00	20.10	227.22	4,431.10	-447.88	-395.29	597.23	2.29	2.26	-1.23
4,575.00	21.26	225.56	4,519.98	-471.02	-419.57	630.70	1.37	1.22	-1.75
4,671.00	24.37	225.46	4,608.46	-497.11	-446.12	667.88	3.24	3.24	-0.10

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Well:	RGU 31-26-198	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	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)
4,766.00	25.35	224.21	4,694.65	-525.43	-474.28	707.79	1.17	1.03	-1.32
4,860.00	26.07	224.42	4,779.35	-554.61	-502.76	748.55	0.77	0.77	0.22
4,956.00	25.20	218.87	4,865.91	-585.59	-530.36	790.03	2.66	-0.91	-5.78
5,051.00	27.60	221.29	4,951.00	-617.88	-557.58	832.22	2.77	2.53	2.55
5,146.00	27.36	221.14	5,035.28	-650.86	-586.46	876.04	0.26	-0.25	-0.16
5,241.00	26.58	220.77	5,119.95	-683.39	-614.70	919.11	0.84	-0.82	-0.39
5,336.00	27.18	222.04	5,204.68	-715.61	-643.11	962.05	0.87	0.63	1.34
5,431.00	27.02	224.18	5,289.26	-747.20	-672.68	1,005.31	1.04	-0.17	2.25
5,525.00	25.83	223.59	5,373.43	-777.34	-701.68	1,047.14	1.30	-1.27	-0.63
5,620.00	25.56	223.93	5,459.04	-807.09	-730.17	1,088.32	0.32	-0.28	0.36
5,715.00	26.69	224.46	5,544.33	-837.08	-759.33	1,130.13	1.21	1.19	0.56
5,811.00	26.47	226.53	5,630.19	-867.19	-789.96	1,173.03	0.99	-0.23	2.16
5,905.00	26.38	228.26	5,714.37	-895.50	-820.75	1,214.72	0.82	-0.10	1.84
6,000.00	25.39	227.88	5,799.84	-923.22	-851.60	1,256.01	1.06	-1.04	-0.40
6,095.00	23.50	226.00	5,886.32	-950.04	-880.34	1,295.20	2.15	-1.99	-1.98
6,190.00	22.55	227.54	5,973.75	-975.49	-907.40	1,332.27	1.18	-1.00	1.62
6,285.00	22.47	225.02	6,061.51	-1,000.62	-933.68	1,368.56	1.02	-0.08	-2.65
6,380.00	19.49	223.08	6,150.21	-1,025.03	-957.36	1,402.55	3.22	-3.14	-2.04
6,476.00	18.51	222.61	6,240.97	-1,047.95	-978.61	1,433.80	1.03	-1.02	-0.49
6,571.00	16.48	223.08	6,331.58	-1,068.89	-998.03	1,462.36	2.14	-2.14	0.49
6,666.00	15.72	220.96	6,422.85	-1,088.45	-1,015.67	1,488.70	1.01	-0.80	-2.23
6,761.00	15.02	219.99	6,514.45	-1,107.60	-1,032.01	1,513.86	0.78	-0.74	-1.02
6,856.00	13.80	220.55	6,606.46	-1,125.64	-1,047.29	1,537.48	1.29	-1.28	0.59
6,951.00	13.76	222.64	6,698.73	-1,142.56	-1,062.31	1,560.10	0.53	-0.04	2.20
7,046.00	14.17	225.62	6,790.92	-1,159.01	-1,078.28	1,583.01	0.87	0.43	3.14
7,141.00	12.72	223.66	6,883.31	-1,174.71	-1,093.81	1,605.08	1.60	-1.53	-2.06
7,236.00	12.00	226.38	6,976.11	-1,189.09	-1,108.18	1,625.40	0.97	-0.76	2.86
7,331.00	11.89	224.64	7,069.06	-1,202.86	-1,122.20	1,645.03	0.40	-0.12	-1.83
7,425.00	11.17	223.94	7,161.16	-1,216.31	-1,135.33	1,663.81	0.78	-0.77	-0.74
7,520.00	10.34	227.38	7,254.49	-1,228.71	-1,147.99	1,681.51	1.10	-0.87	3.62
7,615.00	10.28	225.51	7,347.96	-1,240.42	-1,160.31	1,698.47	0.36	-0.06	-1.97
7,710.00	9.12	224.89	7,441.60	-1,251.70	-1,171.67	1,714.47	1.23	-1.22	-0.65
7,805.00	7.30	227.71	7,535.62	-1,261.09	-1,181.45	1,728.00	1.96	-1.92	2.97
7,900.00	6.09	221.41	7,629.97	-1,268.94	-1,189.25	1,739.05	1.49	-1.27	-6.63
7,995.00	4.67	224.30	7,724.55	-1,275.48	-1,195.28	1,747.96	1.52	-1.49	3.04
8,090.00	3.90	226.37	7,819.28	-1,280.48	-1,200.32	1,755.05	0.83	-0.81	2.18
8,184.00	3.60	228.97	7,913.08	-1,284.62	-1,204.86	1,761.17	0.37	-0.32	2.77
8,279.00	1.94	237.10	8,007.97	-1,287.45	-1,208.46	1,765.69	1.79	-1.75	8.56
8,374.00	0.47	227.96	8,102.95	-1,288.59	-1,210.10	1,767.64	1.56	-1.55	-9.62
8,469.00	1.05	252.60	8,197.94	-1,289.11	-1,211.22	1,768.78	0.69	0.61	25.94
8,564.00	0.74	178.39	8,292.93	-1,289.98	-1,212.03	1,769.97	1.17	-0.33	-78.12
8,659.00	1.00	201.90	8,387.92	-1,291.37	-1,212.32	1,771.19	0.46	0.27	24.75
8,754.00	1.01	104.30	8,482.91	-1,292.34	-1,211.82	1,771.57	1.59	0.01	-102.74
8,849.00	1.31	139.14	8,577.89	-1,293.37	-1,210.30	1,771.29	0.79	0.32	36.67

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Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	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)
8,944.00	0.86	168.05	8,672.87	-1,294.89	-1,209.44	1,771.82	0.73	-0.47	30.43
9,038.00	1.57	186.58	8,766.85	-1,296.86	-1,209.44	1,773.27	0.85	0.76	19.71
9,133.00	1.54	221.70	8,861.82	-1,299.10	-1,210.44	1,775.60	0.99	-0.03	36.97
9,228.00	1.73	318.02	8,956.79	-1,298.99	-1,212.25	1,776.74	2.57	0.20	101.39
9,323.00	1.64	339.99	9,051.75	-1,296.65	-1,213.68	1,775.99	0.68	-0.09	23.13
9,417.00	1.33	339.57	9,145.72	-1,294.36	-1,214.52	1,774.88	0.33	-0.33	-0.45
9,512.00	1.38	296.86	9,240.70	-1,292.81	-1,215.92	1,774.69	1.04	0.05	-44.96
9,607.00	1.60	271.62	9,335.67	-1,292.26	-1,218.27	1,775.87	0.72	0.23	-26.57
9,702.00	1.07	1.43	9,430.65	-1,291.33	-1,219.57	1,776.08	2.02	-0.56	94.54
9,797.00	0.88	8.32	9,525.64	-1,289.72	-1,219.44	1,774.81	0.23	-0.20	7.25
9,892.00	1.00	291.96	9,620.63	-1,288.69	-1,220.11	1,774.50	1.23	0.13	-80.38
9,987.00	0.96	329.49	9,715.61	-1,287.70	-1,221.28	1,774.56	0.66	-0.04	39.51
10,082.00	1.16	316.11	9,810.60	-1,286.32	-1,222.35	1,774.28	0.33	0.21	-14.08
10,177.00	1.54	35.08	9,905.58	-1,284.58	-1,222.28	1,772.95	1.83	0.40	83.13
10,272.00	2.23	37.88	10,000.53	-1,282.08	-1,220.42	1,769.85	0.73	0.73	2.95
10,367.00	1.50	21.46	10,095.48	-1,279.46	-1,218.83	1,766.84	0.94	-0.77	-17.28
10,462.00	1.58	75.65	10,190.45	-1,277.98	-1,217.10	1,764.59	1.48	0.08	57.04
10,557.00	0.95	64.39	10,285.42	-1,277.31	-1,215.12	1,762.76	0.71	-0.66	-11.85
10,652.00	0.98	41.91	10,380.41	-1,276.37	-1,213.87	1,761.21	0.40	0.03	-23.66
10,747.00	0.94	51.05	10,475.40	-1,275.27	-1,212.72	1,759.63	0.17	-0.04	9.62
10,842.00	1.89	89.66	10,570.37	-1,274.78	-1,210.55	1,757.79	1.36	1.00	40.64
10,936.00	1.05	113.99	10,664.34	-1,275.12	-1,208.21	1,756.46	1.09	-0.89	25.88
11,031.00	0.78	93.35	10,759.32	-1,275.51	-1,206.77	1,755.77	0.44	-0.28	-21.73
11,126.00	1.17	93.34	10,854.31	-1,275.60	-1,205.16	1,754.74	0.41	0.41	-0.01
11,221.00	0.45	149.31	10,949.30	-1,275.98	-1,204.00	1,754.23	1.04	-0.76	58.92
11,313.00	0.64	233.05	11,041.30	-1,276.60	-1,204.22	1,754.84	0.81	0.21	91.02
11,412.00	1.26	261.21	11,140.28	-1,277.10	-1,205.74	1,756.24	0.77	0.63	28.44
11,507.00	0.14	286.76	11,235.28	-1,277.22	-1,206.89	1,757.11	1.20	-1.18	26.89
11,602.00	0.59	119.66	11,330.28	-1,277.43	-1,206.57	1,757.05	0.77	0.47	-175.89
11,697.00	0.51	123.55	11,425.27	-1,277.91	-1,205.79	1,756.87	0.09	-0.08	4.09
11,792.00	0.20	178.59	11,520.27	-1,278.31	-1,205.44	1,756.92	0.45	-0.33	57.94
11,887.00	0.74	217.41	11,615.27	-1,278.96	-1,205.81	1,757.65	0.63	0.57	40.86
11,982.00	1.16	241.42	11,710.25	-1,279.91	-1,207.02	1,759.17	0.60	0.44	25.27
12,077.00	1.32	264.53	11,805.23	-1,280.47	-1,208.96	1,760.90	0.55	0.17	24.33
12,172.00	1.50	266.01	11,900.20	-1,280.66	-1,211.29	1,762.62	0.19	0.19	1.56
12,267.00	1.46	270.37	11,995.17	-1,280.74	-1,213.74	1,764.34	0.13	-0.04	4.59
12,362.00	1.04	280.71	12,090.15	-1,280.57	-1,215.80	1,765.61	0.50	-0.44	10.88
12,457.00	1.37	269.30	12,185.13	-1,280.43	-1,217.78	1,766.84	0.43	0.35	-12.01
12,553.00	1.80	267.47	12,281.09	-1,280.51	-1,220.43	1,768.70	0.45	0.45	-1.91
12,647.00	1.96	262.89	12,375.04	-1,280.77	-1,223.50	1,770.98	0.23	0.17	-4.87
12,686.00	2.14	260.56	12,414.01	-1,280.97	-1,224.88	1,772.06	0.51	0.46	-5.97
Last SDI Production MWD Survey									
12,737.00	2.14	260.56	12,464.98	-1,281.29	-1,226.76	1,773.57	0.00	0.00	0.00

Company:	WPX Energy Rocky Mountain, LLC	Local Co-ordinate Reference:	Well RGU 31-26-198
Project:	Rio Blanco County, CO NAD83	TVD Reference:	KB @ 6592.01ft (Aztec 1000)
Site:	RGU 43-23-198 Pad	MD Reference:	KB @ 6592.01ft (Aztec 1000)
Well:	RGU 31-26-198	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	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)
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Projection to Bit

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
161.00	160.97	-2.30	-1.06	First SDI Surface MWD Survey
3,874.00	3,843.46	-338.67	-301.28	Last SDI Surface MWD Survey
4,006.00	3,973.13	-358.07	-316.50	First SDI Production MWD Survey
12,686.00	12,414.01	-1,280.97	-1,224.88	Last SDI Production MWD Survey
12,737.00	12,464.98	-1,281.29	-1,226.76	Projection to Bit

Checked By: _____ Approved By: _____ Date: _____