



DIRECTIONAL TECHNOLOGIES INC.

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WPX Energy Rocky Mountain, LLC

RU 23-06S-094W

RWF 43-23 Pad

RWF 531-23 - Slot B06

14-09-145

Final Surveys - Jan.13,2015

License:

UWI:

Survey Report

13 January, 2015





Company:	WPX Energy Rocky Mountain, LLC	Local Co-ordinate Reference:	Well RWF 531-23 - Slot B06
Project:	RU 23-06S-094W	TVD Reference:	KELLY BUSHING @ 5625.00usft (Nabors 577 (26' RKB) mab)
Site:	RWF 43-23 Pad	MD Reference:	KELLY BUSHING @ 5625.00usft (Nabors 577 (26' RKB) mab)
Well:	RWF 531-23	North Reference:	True
Wellbore:	14-09-145	Survey Calculation Method:	Minimum Curvature
Design:	Final Surveys - Jan.13,2015	Database:	EDM_2011

Project	RU 23-06S-094W, Garfield County, CO, 23-06S-094W		
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	RWF 43-23 Pad				
Site Position:		Northing:	1,619,204.50 usft	Latitude:	39° 30' 36.053 N
From:	Map	Easting:	2,337,897.00 usft	Longitude:	107° 50' 48.996 W
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in	Grid Convergence:	-1.48 °

Well	RWF 531-23 - Slot B06					
Well Position	+N-S	0.00 usft	Northing:	1,619,214.50 usft	Latitude:	39° 30' 36.148 N
	+E-W	0.00 usft	Easting:	2,337,881.50 usft	Longitude:	107° 50' 49.197 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	5,599.00 usft

Wellbore	14-09-145	Well UWI		License	
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	1/7/2015	9.83	65.68	51,920

Design	Final Surveys - Jan.13,2015				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	323.09	

Survey Program	Date	1/13/2015			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
67.00	9,252.00	Final Surveys (14-09-145)	MWD+sag	/D v3:standard declination + s	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	SS (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	5,625.00	0.00	0.00	0.00	0.00	0.00	0.00
67.00	0.53	240.12	67.00	5,558.00	-0.15	-0.27	0.04	0.79	0.79	0.00
97.00	0.79	215.68	97.00	5,528.00	-0.39	-0.51	-0.01	1.26	0.87	-81.47
127.00	1.06	258.93	126.99	5,498.01	-0.61	-0.90	0.05	2.42	0.90	144.17
KOP										
142.00	1.14	285.60	141.99	5,483.01	-0.60	-1.18	0.23	3.42	0.51	177.83
157.00	1.41	305.33	156.99	5,468.01	-0.45	-1.48	0.52	3.42	1.82	131.50
188.00	1.76	346.29	187.98	5,437.02	0.23	-1.90	1.33	3.73	1.13	132.13
218.00	2.55	1.76	217.96	5,407.04	1.35	-1.99	2.27	3.25	2.63	51.57

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249.00	3.61	1.76	248.91	5,376.09	3.01	-1.94	3.57	3.42	3.42	0.00
279.00	4.66	3.96	278.83	5,346.17	5.17	-1.82	5.23	3.54	3.50	7.33
309.00	5.54	357.36	308.71	5,316.29	7.83	-1.81	7.35	3.52	2.93	-22.00
339.00	5.63	350.51	338.57	5,286.43	10.73	-2.12	9.85	2.24	0.30	-22.83
370.00	5.81	347.34	369.42	5,255.58	13.76	-2.71	12.63	1.17	0.58	-10.23
400.00	6.33	339.87	399.25	5,225.75	16.80	-3.61	15.60	3.15	1.73	-24.90
430.00	7.04	333.19	429.04	5,195.96	19.99	-5.01	18.99	3.51	2.37	-22.27
460.00	7.74	328.27	458.80	5,166.20	23.35	-6.90	22.81	3.14	2.33	-16.40
472.00	8.04	326.59	470.68	5,154.32	24.74	-7.79	24.46	3.15	2.50	-14.00
503.00	9.01	324.83	501.34	5,123.66	28.53	-10.38	29.05	3.24	3.13	-5.68
533.00	10.20	320.08	530.92	5,094.08	32.49	-13.44	34.05	4.76	3.97	-15.83
563.00	11.34	318.50	560.39	5,064.61	36.73	-17.10	39.64	3.93	3.80	-5.27
593.00	12.62	316.74	589.74	5,035.26	41.33	-21.30	45.84	4.44	4.27	-5.87
624.00	13.93	315.51	619.91	5,005.09	46.46	-26.24	52.90	4.32	4.23	-3.97
685.00	16.79	313.05	678.72	4,946.28	57.71	-37.82	68.86	4.81	4.69	-4.03
715.00	18.59	314.20	707.30	4,917.70	64.01	-44.42	77.85	6.11	6.00	3.83
746.00	20.04	314.46	736.56	4,888.44	71.17	-51.75	87.99	4.69	4.68	0.84
776.00	21.50	315.16	764.61	4,860.39	78.67	-59.30	98.51	4.94	4.87	2.33
806.00	22.68	313.84	792.40	4,832.60	86.57	-67.34	109.67	4.27	3.93	-4.40
837.00	23.82	312.17	820.89	4,804.11	94.92	-76.30	121.71	4.25	3.68	-5.39
867.00	25.32	311.30	848.17	4,776.83	103.22	-85.61	133.94	5.14	5.00	-2.90
897.00	27.03	311.82	875.09	4,749.91	112.00	-95.51	146.91	5.75	5.70	1.73
927.00	28.44	312.35	901.64	4,723.36	121.36	-105.87	160.61	4.77	4.70	1.77
957.00	29.85	313.14	927.85	4,697.15	131.27	-116.59	174.99	4.87	4.70	2.63
988.00	31.12	314.20	954.56	4,670.44	142.13	-127.97	190.50	4.45	4.10	3.42
1,020.00	31.74	314.64	981.87	4,643.13	153.81	-139.88	207.00	2.07	1.94	1.38
1,052.00	31.96	314.55	1,009.05	4,615.95	165.67	-151.91	223.70	0.70	0.69	-0.28
1,157.00	34.55	315.34	1,096.84	4,528.16	206.35	-192.65	280.69	2.50	2.47	0.75
1,180.00	35.21	315.51	1,115.71	4,509.29	215.72	-201.88	293.72	2.90	2.87	0.74
Interpolated Casing Point - Surface Casing										
1,230.00	34.12	315.35	1,156.84	4,468.16	235.98	-221.84	321.91	2.18	-2.17	-0.32
1,261.00	33.45	315.25	1,182.60	4,442.40	248.23	-233.96	338.99	2.18	-2.17	-0.33
1,355.00	34.20	315.07	1,260.69	4,364.31	285.34	-270.86	390.82	0.80	0.80	-0.19
1,450.00	32.44	314.90	1,340.07	4,284.93	322.23	-307.77	442.48	1.86	-1.85	-0.18
1,545.00	32.44	316.74	1,420.25	4,204.75	358.77	-343.28	493.02	1.04	0.00	1.94
1,641.00	32.92	315.95	1,501.05	4,123.95	396.27	-379.06	544.50	0.67	0.50	-0.82
1,737.00	32.18	316.92	1,581.97	4,043.03	433.69	-414.66	595.80	0.94	-0.77	1.01
1,832.00	31.65	317.89	1,662.61	3,962.39	470.66	-448.65	645.77	0.78	-0.56	1.02
1,928.00	30.77	316.92	1,744.72	3,880.28	507.28	-482.31	695.27	1.06	-0.92	-1.01
2,022.00	31.60	317.80	1,825.13	3,799.87	543.09	-515.28	743.70	1.01	0.88	0.94
2,117.00	33.63	316.92	1,905.15	3,719.85	580.75	-549.97	794.64	2.19	2.14	-0.93



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2,213.00	33.71	316.22	1,985.04	3,639.96	619.40	-586.56	847.52	0.41	0.08	-0.73
2,308.00	33.93	316.39	2,063.97	3,561.03	657.63	-623.09	900.02	0.25	0.23	0.18
2,404.00	33.76	316.13	2,143.70	3,481.30	696.26	-660.05	953.11	0.23	-0.18	-0.27
2,499.00	34.81	317.45	2,222.20	3,402.80	735.26	-696.69	1,006.30	1.35	1.11	1.39
2,595.00	34.55	317.27	2,301.14	3,323.86	775.45	-733.69	1,060.65	0.29	-0.27	-0.19
2,691.00	34.33	316.74	2,380.31	3,244.69	815.16	-770.71	1,114.64	0.39	-0.23	-0.55
2,786.00	34.20	317.45	2,458.83	3,166.17	854.33	-807.12	1,167.83	0.44	-0.14	0.75
2,882.00	33.54	318.15	2,538.54	3,086.46	893.97	-843.06	1,221.10	0.80	-0.69	0.73
2,977.00	33.10	317.71	2,617.92	3,007.08	932.70	-878.03	1,273.08	0.53	-0.46	-0.46
3,071.00	32.66	318.15	2,696.86	2,928.14	970.58	-912.22	1,323.90	0.53	-0.47	0.47
3,167.00	33.32	318.94	2,777.38	2,847.62	1,009.76	-946.82	1,376.00	0.82	0.69	0.82
3,262.00	33.98	319.73	2,856.46	2,768.54	1,049.69	-981.12	1,428.53	0.83	0.69	0.83
3,358.00	33.27	319.82	2,936.40	2,688.60	1,090.28	-1,015.45	1,481.60	0.74	-0.74	0.09
3,453.00	34.29	319.91	3,015.36	2,609.64	1,130.66	-1,049.50	1,534.34	1.07	1.07	0.09
3,548.00	34.24	320.17	3,093.87	2,531.13	1,171.66	-1,083.85	1,587.75	0.16	-0.05	0.27
3,644.00	33.14	319.64	3,173.75	2,451.25	1,212.40	-1,118.14	1,640.92	1.19	-1.15	-0.55
3,739.00	33.71	322.98	3,253.04	2,371.96	1,253.24	-1,150.84	1,693.20	2.03	0.60	3.52
3,834.00	33.71	323.60	3,332.07	2,292.93	1,295.50	-1,182.35	1,745.93	0.36	0.00	0.65
3,929.00	33.98	325.27	3,410.97	2,214.03	1,338.54	-1,213.12	1,798.82	1.02	0.28	1.76
4,024.00	34.51	326.85	3,489.51	2,135.49	1,382.89	-1,242.96	1,852.20	1.09	0.56	1.66
4,120.00	34.42	329.58	3,568.66	2,056.34	1,429.06	-1,271.57	1,906.30	1.61	-0.09	2.84
4,215.00	34.11	329.31	3,647.17	1,977.83	1,475.12	-1,298.76	1,959.46	0.36	-0.33	-0.28
4,310.00	33.89	329.49	3,725.93	1,899.07	1,520.85	-1,325.81	2,012.26	0.25	-0.23	0.19
4,404.00	33.76	331.60	3,804.02	1,820.98	1,566.40	-1,351.53	2,064.14	1.26	-0.14	2.24
4,500.00	33.76	329.58	3,883.84	1,741.16	1,612.87	-1,377.73	2,117.02	1.17	0.00	-2.10
4,595.00	33.19	330.98	3,963.08	1,661.92	1,658.37	-1,403.71	2,169.01	1.01	-0.60	1.47
4,691.00	33.80	331.60	4,043.14	1,581.86	1,704.84	-1,429.16	2,221.44	0.73	0.64	0.65
4,786.00	34.15	330.28	4,121.92	1,503.08	1,751.24	-1,454.94	2,274.03	0.86	0.37	-1.39
4,881.00	33.80	330.53	4,200.70	1,424.30	1,797.40	-1,481.16	2,326.69	0.40	-0.37	0.26
4,976.00	33.14	329.05	4,279.95	1,345.05	1,842.68	-1,507.52	2,378.72	1.10	-0.69	-1.56
5,071.00	32.22	332.56	4,359.92	1,265.08	1,887.43	-1,532.55	2,429.53	2.22	-0.97	3.69
5,166.00	31.39	331.86	4,440.65	1,184.35	1,931.72	-1,555.89	2,478.97	0.96	-0.87	-0.74
5,261.00	31.82	332.39	4,521.56	1,103.44	1,975.73	-1,579.16	2,528.13	0.54	0.45	0.56
5,357.00	29.06	331.33	4,604.32	1,020.68	2,018.62	-1,602.08	2,576.19	2.93	-2.88	-1.10
5,452.00	29.45	330.89	4,687.21	937.80	2,059.27	-1,624.51	2,622.17	0.47	0.41	-0.46
5,548.00	27.52	331.25	4,771.58	853.42	2,099.34	-1,646.66	2,667.51	2.02	-2.01	0.38
5,643.00	26.81	330.54	4,856.10	768.90	2,137.24	-1,667.76	2,710.48	0.82	-0.75	-0.75
5,739.00	24.18	328.87	4,942.75	682.25	2,172.92	-1,688.57	2,751.51	2.84	-2.74	-1.74
5,834.00	23.60	329.23	5,029.61	595.39	2,205.92	-1,708.36	2,789.78	0.63	-0.61	0.38
5,929.00	20.84	327.64	5,117.54	507.46	2,236.54	-1,727.14	2,825.54	2.97	-2.91	-1.67
6,025.00	20.13	326.41	5,207.47	417.53	2,264.72	-1,745.42	2,859.05	0.86	-0.74	-1.28

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6,120.00	18.86	330.98	5,297.03	327.97	2,291.77	-1,761.91	2,890.58	2.09	-1.34	4.81
6,216.00	17.27	330.45	5,388.29	236.71	2,317.74	-1,776.47	2,920.09	1.67	-1.66	-0.55
6,311.00	15.65	329.84	5,479.40	145.60	2,341.08	-1,789.86	2,946.80	1.71	-1.71	-0.64
6,406.00	13.85	327.82	5,571.26	53.74	2,361.79	-1,802.35	2,970.86	1.97	-1.89	-2.13
6,502.00	11.60	328.35	5,664.90	-39.90	2,379.73	-1,813.54	2,991.92	2.35	-2.34	0.55
6,598.00	10.02	325.62	5,759.19	-134.19	2,394.84	-1,823.32	3,009.88	1.73	-1.65	-2.84
6,693.00	6.99	335.02	5,853.14	-228.14	2,406.91	-1,830.43	3,023.80	3.50	-3.19	9.89
6,788.00	3.91	359.99	5,947.72	-322.72	2,415.39	-1,832.87	3,032.05	4.02	-3.24	26.28
6,883.00	2.55	27.85	6,042.57	-417.57	2,420.50	-1,831.89	3,035.54	2.15	-1.43	29.33
6,980.00	2.24	73.99	6,139.49	-514.49	2,422.93	-1,829.06	3,035.78	1.96	-0.32	47.57
7,075.00	2.24	81.02	6,234.42	-609.42	2,423.73	-1,825.44	3,034.25	0.29	0.00	7.40
7,170.00	1.76	81.46	6,329.36	-704.36	2,424.24	-1,822.16	3,032.69	0.51	-0.51	0.46
7,266.00	1.36	81.46	6,425.33	-800.32	2,424.62	-1,819.58	3,031.45	0.42	-0.42	0.00
7,361.00	2.77	82.60	6,520.26	-895.26	2,425.09	-1,816.19	3,029.78	1.48	1.48	1.20
7,457.00	2.59	93.50	6,616.16	-991.16	2,425.25	-1,811.72	3,027.23	0.56	-0.19	11.35
7,552.00	2.37	96.31	6,711.07	-1,086.07	2,424.91	-1,807.63	3,024.49	0.26	-0.23	2.96
7,647.00	2.33	92.01	6,805.99	-1,180.99	2,424.62	-1,803.74	3,021.94	0.19	-0.04	-4.53
7,743.00	2.02	99.74	6,901.92	-1,276.92	2,424.27	-1,800.13	3,019.48	0.44	-0.32	8.05
7,838.00	1.71	113.19	6,996.87	-1,371.87	2,423.43	-1,797.17	3,017.03	0.56	-0.33	14.16
7,932.00	1.98	122.24	7,090.82	-1,465.82	2,422.01	-1,794.51	3,014.30	0.42	0.29	9.63
8,029.00	1.98	125.93	7,187.76	-1,562.76	2,420.13	-1,791.74	3,011.13	0.13	0.00	3.80
8,124.00	1.41	134.99	7,282.72	-1,657.72	2,418.34	-1,789.58	3,008.41	0.66	-0.60	9.54
8,220.00	1.36	130.85	7,378.69	-1,753.69	2,416.76	-1,787.88	3,006.12	0.12	-0.05	-4.31
8,316.00	1.27	147.20	7,474.67	-1,849.67	2,415.12	-1,786.44	3,003.95	0.40	-0.09	17.03
8,411.00	1.27	129.36	7,569.64	-1,944.64	2,413.57	-1,785.06	3,001.88	0.41	0.00	-18.78
8,507.00	1.01	115.47	7,665.63	-2,040.63	2,412.53	-1,783.47	3,000.09	0.39	-0.27	-14.47
8,602.00	0.97	112.66	7,760.61	-2,135.61	2,411.86	-1,781.98	2,998.66	0.07	-0.04	-2.96
8,696.00	0.75	141.93	7,854.60	-2,229.60	2,411.07	-1,780.86	2,997.36	0.51	-0.23	31.14
8,791.00	1.19	159.16	7,949.59	-2,324.59	2,409.66	-1,780.13	2,995.79	0.55	0.46	18.14
8,887.00	1.10	152.39	8,045.57	-2,420.57	2,407.91	-1,779.35	2,993.92	0.17	-0.09	-7.05
8,980.00	1.01	161.27	8,138.55	-2,513.55	2,406.34	-1,778.67	2,992.26	0.20	-0.10	9.55
9,076.00	1.32	177.79	8,234.53	-2,609.53	2,404.44	-1,778.36	2,990.55	0.47	0.32	17.21
9,171.00	1.36	195.46	8,329.51	-2,704.51	2,402.26	-1,778.61	2,988.96	0.44	0.04	18.60
Last Survey										
9,202.00	1.36	187.81	8,360.50	-2,735.50	2,401.54	-1,778.76	2,988.47	0.59	0.00	-24.68
Extrapolation to TD										
9,252.00	1.36	187.81	8,410.48	-2,785.48	2,400.36	-1,778.92	2,987.63	0.00	0.00	0.00



Company:	WPX Energy Rocky Mountain, LLC	Local Co-ordinate Reference:	Well RWF 531-23 - Slot B06
Project:	RU 23-06S-094W	TVD Reference:	KELLY BUSHING @ 5625.00usft (Nabors 577 (26' RKB) mab)
Site:	RWF 43-23 Pad	MD Reference:	KELLY BUSHING @ 5625.00usft (Nabors 577 (26' RKB) mab)
Well:	RWF 531-23	North Reference:	True
Wellbore:	14-09-145	Survey Calculation Method:	Minimum Curvature
Design:	Final Surveys - Jan.13,2015	Database:	EDM_2011

Casing Points				
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)
1,230.00	1,156.84	Surface Casing		

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
142.00	141.99	-0.60	-1.18	KOP
1,230.00	1,156.84	235.98	-221.84	Interpolated Casing Point
9,202.00	8,360.50	2,401.54	-1,778.76	Last Survey
9,252.00	8,410.48	2,400.36	-1,778.92	Extrapolation to TD



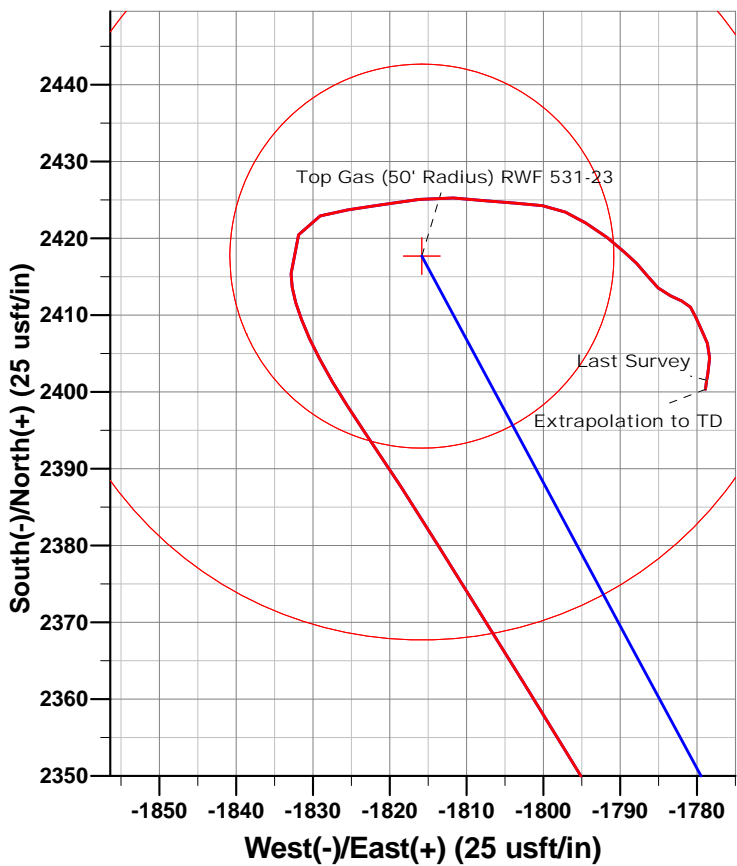
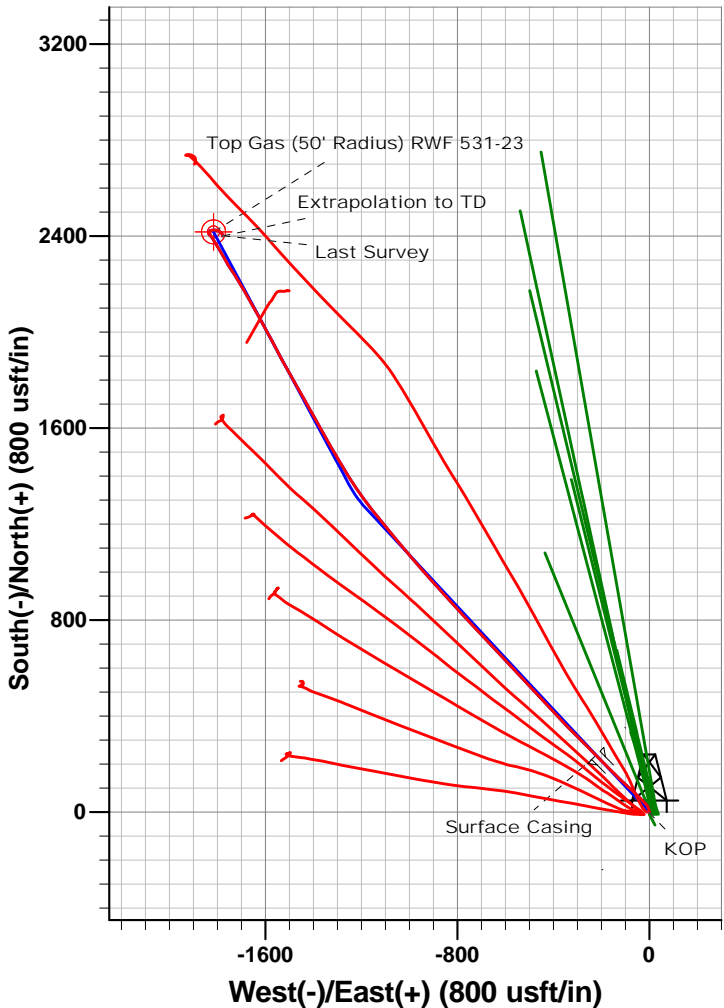
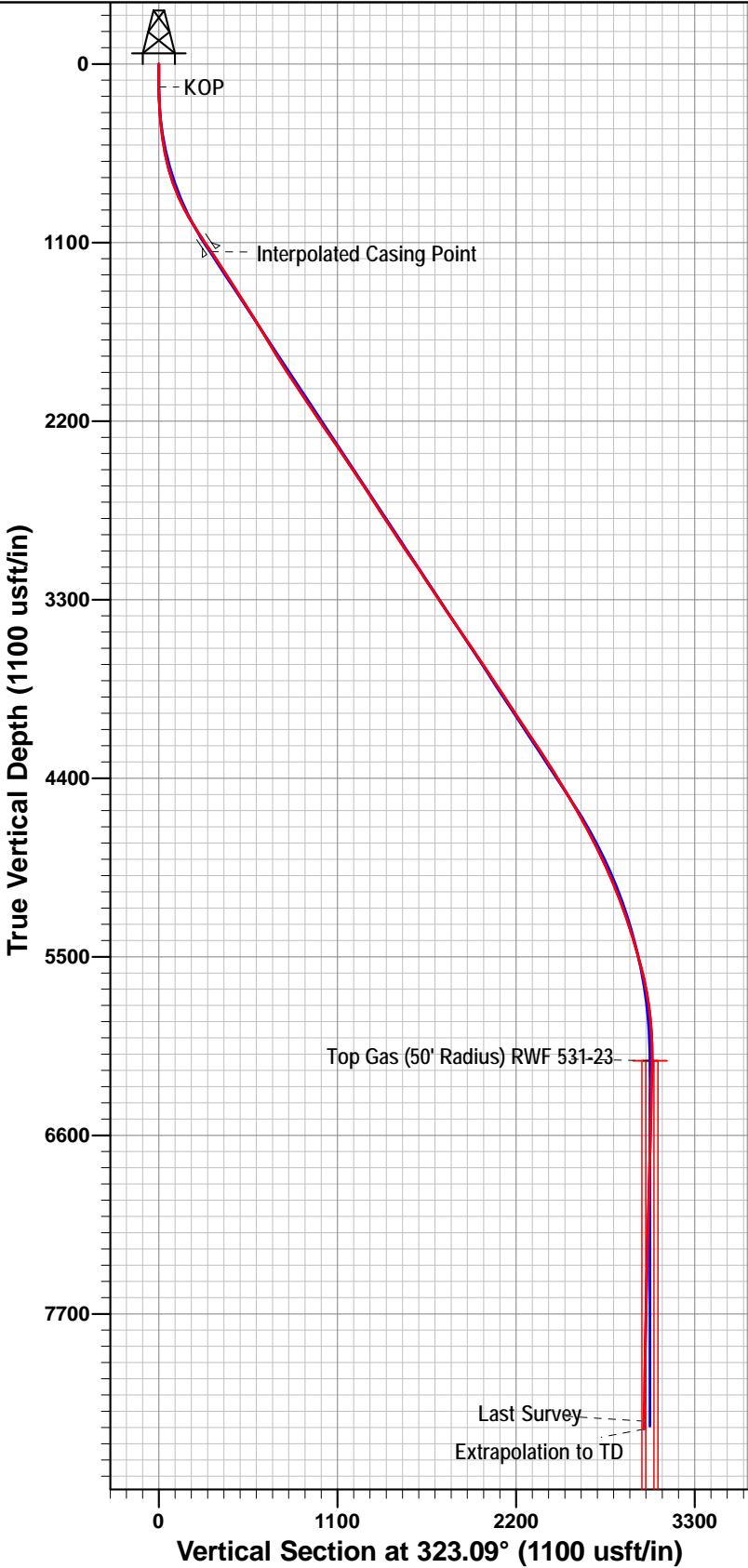
WPX Energy Rocky Mountain, LLC
RU 23-06S-094W
RWF 43-23 Pad
RWF 531-23
14-09-145
Final Surveys - Jan.13,2015



REFERENCE INFORMATION
Magnetic Declination - 9.83°
Magnetic Dip Angle - 65.68°
Field Strength - 51920
KB Elevation - KELLY BUSHING @ 5625.00usft (Nabors 577 (26' RKB) mab)
Ground Level - 5599.00
Well Center Northing - 1619214.50
Well Center Easting - 2337881.50
Calculation Method - Minimum Curvature
Geodetic System - US State Plane 1983
Geodetic Datum - North American Datum 1983
Map Zone - Colorado Central Zone

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W
W/C_RWF_32-23	0.00	-0.77	-30.00
W/C_RWF_331-23	0.00	-0.19	-7.50
W/C_RWF_332-23	0.00	-10.58	-22.24
W/C_RWF_341-23	0.00	0.19	7.50
W/C_RWF_342-23	0.00	-9.80	7.76
W/C_RWF_41-23	0.00	0.59	22.49
W/C_RWF_42-23	0.00	-9.42	22.75
W/C_RWF_431-23	0.00	-0.97	-37.49
W/C_RWF_432-23	0.00	-10.97	-37.23
W/C_RWF_43-23	0.00	-10.00	0.26
W/C_RWF_441-23	0.00	-9.61	15.25
W/C_RWF_442-23	0.00	-9.22	30.25
W/C_RWF_531-23	0.00	0.00	0.00
W/C_RWF_541-23	0.00	0.78	29.99
W/C_RWF_542-23	0.00	-9.03	37.75
W/C_RWF_633-23	0.00	-10.77	-29.73
Top Gas (25' Radius) RWF 531-23	6140.60	2417.70	-1815.83
Top Gas (50' Radius) RWF 531-23	6140.60	2417.70	-1815.83
TD / PBHL RWF 531-23	8392.20	2402.96	-1805.34



CASING DETAILS

TVD	MD	Name
1156.84	1230.00	Surface Casing

Survey: Final Surveys (RWF 531-23/14-09-145)

Created By: Abby Nieradka Date: 8:03, January 13 2015