



DIRECTIONAL TECHNOLOGIES INC.

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WPX Energy Rocky Mountain, LLC

**RU 23-06S-094W
RWF 43-23 Pad
RWF 331-23 - Slot B05
14-09-144**

Final Surveys - Jan.2nd,2015

License:

UWI:

Survey Report

02 January, 2015





Mostar Directional Technologies

Survey Report



Company:	WPX Energy Rocky Mountain, LLC	Local Co-ordinate Reference:	Well RWF 331-23 - Slot B05
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 331-23	North Reference:	True
Wellbore:	14-09-144	Survey Calculation Method:	Minimum Curvature
Design:	Final Surveys - Jan.2nd,2015	Database:	SRV_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
From:	Map	Easting:	2,337,897.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in
		Latitude:	39° 30' 36.053 N
		Longitude:	107° 50' 48.996 W
		Grid Convergence:	-1.48 °

Well	RWF 331-23 - Slot B05		
Well Position	+N-S	0.00 usft	Northing: 1,619,214.50 usft
	+E-W	0.00 usft	Easting: 2,337,874.00 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	39° 30' 36.146 N
		Longitude:	107° 50' 49.293 W
		Ground Level:	5,599.00 usft

Wellbore	14-09-144	Well UWI		License	
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/19/2014	9.83	65.68	51,925

Design	Final Surveys - Jan.2nd,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)
	0.00	0.00	0.00
		Direction (°)	324.94

Survey Program	Date	1/2/2015			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
139.00	9,536.00	Surveys To TD (14-09-144)	MWD+sag	MWD v3:standard declina	

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
Actual KOP										
129.00	2.16	282.73	128.97	5,496.03	0.54	-2.37	1.80	1.68	1.68	0.00
139.00	2.33	282.73	138.96	5,486.04	0.62	-2.76	2.09	1.68	1.68	0.00
169.00	3.43	290.20	168.92	5,456.08	1.07	-4.19	3.28	3.87	3.67	24.90
200.00	3.82	299.52	199.86	5,425.14	1.90	-5.96	4.98	2.28	1.26	30.06
230.00	5.05	308.22	229.77	5,395.23	3.21	-7.87	7.14	4.66	4.10	29.00
260.00	5.85	310.68	259.64	5,365.36	5.02	-10.07	9.89	2.78	2.67	8.20
291.00	6.59	320.43	290.45	5,334.55	7.42	-12.40	13.19	4.15	2.39	31.45



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322.00	7.21	319.03	321.23	5,303.77	10.26	-14.81	16.90	2.07	2.00	-4.52
351.00	8.18	321.58	349.97	5,275.03	13.25	-17.28	20.77	3.55	3.34	8.79
383.00	9.67	328.26	381.58	5,243.42	17.32	-20.11	25.73	5.66	4.66	20.88
412.00	11.08	329.31	410.11	5,214.89	21.79	-22.81	30.94	4.91	4.86	3.62
442.00	12.53	330.63	439.47	5,185.53	27.10	-25.88	37.05	4.92	4.83	4.40
472.00	13.58	330.28	468.69	5,156.31	33.00	-29.22	43.80	3.51	3.50	-1.17
503.00	15.16	332.56	498.72	5,126.28	39.76	-32.90	51.44	5.41	5.10	7.35
532.00	16.40	334.23	526.63	5,098.37	46.81	-36.42	59.24	4.55	4.28	5.76
563.00	17.01	334.67	556.32	5,068.68	54.85	-40.27	68.03	2.01	1.97	1.42
594.00	17.80	335.29	585.90	5,039.10	63.25	-44.19	77.16	2.62	2.55	2.00
624.00	18.99	335.73	614.37	5,010.63	71.87	-48.11	86.46	3.99	3.97	1.47
654.00	20.26	337.31	642.63	4,982.37	81.11	-52.12	96.33	4.59	4.23	5.27
684.00	21.50	337.40	670.66	4,954.34	90.98	-56.24	106.77	4.13	4.13	0.30
715.00	22.42	336.96	699.41	4,925.59	101.66	-60.73	118.10	3.01	2.97	-1.42
745.00	24.09	337.57	726.97	4,898.03	112.59	-65.31	129.67	5.62	5.57	2.03
775.00	24.88	336.52	754.27	4,870.73	124.04	-70.16	141.83	3.01	2.63	-3.50
805.00	26.07	334.32	781.35	4,843.65	135.76	-75.53	154.52	5.07	3.97	-7.33
835.00	27.16	332.48	808.17	4,816.83	147.78	-81.55	167.81	4.55	3.63	-6.13
866.00	28.22	331.68	835.62	4,789.38	160.51	-88.30	182.11	3.62	3.42	-2.58
896.00	29.71	330.72	861.87	4,763.13	173.24	-95.30	196.55	5.20	4.97	-3.20
926.00	31.08	329.14	887.75	4,737.25	186.37	-102.91	211.67	5.29	4.57	-5.27
956.00	32.44	328.79	913.25	4,711.75	199.90	-111.05	227.42	4.57	4.53	-1.17
988.00	34.29	328.79	939.98	4,685.02	214.95	-120.17	244.98	5.78	5.78	0.00
1,020.00	35.52	328.96	966.22	4,658.78	230.62	-129.63	263.24	3.86	3.84	0.53
1,052.00	36.48	328.79	992.11	4,632.89	246.72	-139.36	282.01	3.02	3.00	-0.53
1,084.00	37.67	329.49	1,017.64	4,607.36	263.29	-149.25	301.25	3.95	3.72	2.19
1,116.00	38.55	329.40	1,042.82	4,582.18	280.29	-159.29	320.94	2.76	2.75	-0.28
1,147.00	38.90	329.49	1,067.00	4,558.00	296.99	-169.15	340.27	1.14	1.13	0.29
1,178.00	38.95	329.58	1,091.12	4,533.88	313.78	-179.02	359.68	0.24	0.16	0.29
Actual SFC										
1,228.00	39.25	329.94	1,129.92	4,495.08	341.02	-194.91	391.11	0.75	0.60	0.71
1,264.00	39.47	330.19	1,157.76	4,467.24	360.81	-206.30	413.85	0.75	0.61	0.70
1,356.00	40.62	328.87	1,228.19	4,396.81	411.82	-236.32	472.85	1.55	1.25	-1.43
1,452.00	41.14	327.47	1,300.77	4,324.23	465.19	-269.46	535.57	1.10	0.54	-1.46
1,547.00	41.58	327.82	1,372.08	4,252.92	518.22	-303.05	598.28	0.52	0.46	0.37
1,642.00	42.59	330.54	1,442.59	4,182.41	572.90	-335.65	661.76	2.19	1.06	2.86
1,738.00	42.68	329.66	1,513.21	4,111.79	629.27	-368.07	726.52	0.63	0.09	-0.92
1,833.00	41.63	331.07	1,583.64	4,041.36	684.68	-399.60	789.99	1.49	-1.11	1.48
1,926.00	40.22	331.60	1,653.90	3,971.10	738.13	-428.82	850.53	1.56	-1.52	0.57
2,022.00	38.77	332.92	1,727.99	3,897.01	792.16	-457.25	911.09	1.75	-1.51	1.38
2,117.00	39.52	330.45	1,801.67	3,823.33	844.94	-485.70	970.64	1.82	0.79	-2.60



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Survey										
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2,213.00	38.90	330.02	1,876.05	3,748.95	897.62	-515.83	1,031.07	0.71	-0.65	-0.45
2,308.00	38.81	329.58	1,950.03	3,674.97	949.13	-545.81	1,090.45	0.31	-0.09	-0.46
2,403.00	39.47	329.40	2,023.71	3,601.29	1,000.79	-576.25	1,150.23	0.70	0.69	-0.19
2,498.00	39.91	330.10	2,096.82	3,528.18	1,053.20	-606.81	1,210.68	0.66	0.46	0.74
2,593.00	39.60	330.19	2,169.85	3,455.15	1,105.89	-637.06	1,271.19	0.33	-0.33	0.09
2,688.00	39.69	329.75	2,243.00	3,382.00	1,158.37	-667.39	1,331.56	0.31	0.09	-0.46
2,783.00	40.22	329.84	2,315.82	3,309.18	1,211.09	-698.08	1,392.35	0.56	0.56	0.09
2,975.00	40.88	329.40	2,461.71	3,163.29	1,318.77	-761.21	1,516.76	0.37	0.34	-0.23
3,070.00	38.99	328.79	2,534.55	3,090.45	1,371.10	-792.53	1,577.58	2.03	-1.99	-0.64
3,165.00	38.55	328.35	2,608.62	3,016.38	1,421.86	-823.54	1,636.95	0.55	-0.46	-0.46
3,261.00	39.52	329.49	2,683.19	2,941.81	1,473.64	-854.75	1,697.26	1.26	1.01	1.19
3,356.00	39.82	328.79	2,756.32	2,868.68	1,525.70	-885.86	1,757.74	0.57	0.32	-0.74
3,451.00	40.26	330.81	2,829.05	2,795.95	1,578.51	-916.59	1,818.63	1.44	0.46	2.13
3,547.00	40.53	330.54	2,902.16	2,722.84	1,632.76	-947.06	1,880.53	0.34	0.28	-0.28
3,642.00	40.79	329.75	2,974.23	2,650.77	1,686.44	-977.88	1,942.17	0.61	0.27	-0.83
3,738.00	40.53	330.19	3,047.05	2,577.95	1,740.59	-1,009.18	2,004.48	0.40	-0.27	0.46
3,833.00	40.44	327.47	3,119.32	2,505.68	1,793.36	-1,041.10	2,066.01	1.86	-0.09	-2.86
3,928.00	39.96	323.77	3,191.89	2,433.11	1,843.95	-1,075.70	2,127.30	2.56	-0.51	-3.89
4,024.00	40.26	320.26	3,265.32	2,359.68	1,892.68	-1,113.76	2,189.04	2.38	0.31	-3.66
4,120.00	39.47	315.86	3,339.02	2,285.98	1,938.44	-1,154.85	2,250.10	3.05	-0.82	-4.58
4,215.00	39.69	315.25	3,412.24	2,212.76	1,981.65	-1,197.23	2,309.82	0.47	0.23	-0.64
4,310.00	39.91	315.34	3,485.22	2,139.78	2,024.87	-1,240.01	2,369.77	0.24	0.23	0.09
4,405.00	40.66	315.25	3,557.69	2,067.31	2,068.53	-1,283.22	2,430.33	0.79	0.79	-0.09
4,502.00	39.30	315.78	3,632.02	1,992.98	2,112.99	-1,326.89	2,491.81	1.45	-1.40	0.55
4,597.00	38.86	316.22	3,705.76	1,919.24	2,156.07	-1,368.50	2,550.97	0.55	-0.46	0.46
4,692.00	36.70	316.57	3,780.85	1,844.15	2,198.20	-1,408.64	2,608.52	2.28	-2.27	0.37
4,788.00	36.00	317.45	3,858.17	1,766.83	2,239.82	-1,447.44	2,664.87	0.91	-0.73	0.92
4,884.00	34.95	317.98	3,936.34	1,688.66	2,281.03	-1,484.92	2,720.14	1.14	-1.09	0.55
4,979.00	33.41	317.62	4,014.93	1,610.07	2,320.57	-1,520.77	2,773.09	1.63	-1.62	-0.38
5,075.00	32.62	319.47	4,095.43	1,529.57	2,359.76	-1,555.40	2,825.07	1.33	-0.82	1.93
5,170.00	30.95	317.89	4,176.18	1,448.82	2,397.35	-1,588.42	2,874.81	1.96	-1.76	-1.66
5,265.00	28.92	316.48	4,258.51	1,366.49	2,432.14	-1,620.63	2,921.77	2.26	-2.14	-1.48
5,360.00	26.46	316.66	4,342.62	1,282.38	2,464.19	-1,650.97	2,965.45	2.59	-2.59	0.19
5,456.00	24.53	314.90	4,429.27	1,195.73	2,493.82	-1,679.77	3,006.24	2.16	-2.01	-1.83
5,551.00	23.52	314.72	4,516.04	1,108.96	2,521.07	-1,707.21	3,044.31	1.07	-1.06	-0.19
5,647.00	22.46	317.36	4,604.41	1,020.59	2,548.04	-1,733.24	3,081.34	1.54	-1.10	2.75
5,743.00	21.23	315.86	4,693.52	931.48	2,574.01	-1,757.77	3,116.68	1.41	-1.28	-1.56
5,838.00	19.03	317.27	4,782.71	842.29	2,597.73	-1,780.26	3,149.02	2.37	-2.32	1.48
5,934.00	16.40	319.73	4,874.15	750.85	2,619.57	-1,799.65	3,178.04	2.85	-2.74	2.56
6,029.00	14.37	318.59	4,965.74	659.26	2,638.65	-1,816.11	3,203.11	2.16	-2.14	-1.20
6,123.00	13.76	318.77	5,056.93	568.07	2,655.81	-1,831.20	3,225.82	0.65	-0.65	0.19



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6,218.00	12.88	317.10	5,149.37	475.63	2,672.06	-1,845.85	3,247.54	1.01	-0.93	-1.76
6,314.00	11.21	316.83	5,243.25	381.75	2,686.70	-1,859.52	3,267.38	1.74	-1.74	-0.28
6,409.00	9.32	316.83	5,336.73	288.27	2,699.05	-1,871.10	3,284.14	1.99	-1.99	0.00
6,504.00	7.34	316.74	5,430.72	194.28	2,709.08	-1,880.53	3,297.76	2.08	-2.08	-0.09
6,598.00	6.55	312.61	5,524.03	100.97	2,717.08	-1,888.59	3,308.94	0.99	-0.84	-4.39
6,693.00	5.76	309.36	5,618.48	6.52	2,723.78	-1,896.26	3,318.83	0.91	-0.83	-3.42
6,788.00	4.48	312.88	5,713.10	-88.10	2,729.32	-1,902.67	3,327.05	1.39	-1.35	3.71
6,884.00	4.13	306.90	5,808.83	-183.83	2,733.95	-1,908.18	3,334.00	0.59	-0.36	-6.23
6,980.00	3.60	292.49	5,904.62	-279.62	2,737.18	-1,913.73	3,339.83	1.15	-0.55	-15.01
7,075.00	2.86	281.32	5,999.47	-374.46	2,738.79	-1,918.81	3,344.06	1.02	-0.78	-11.76
7,171.00	2.24	250.74	6,095.37	-470.37	2,738.64	-1,922.93	3,346.31	1.53	-0.65	-31.85
7,267.00	1.27	174.10	6,191.34	-566.34	2,736.96	-1,924.59	3,345.89	2.40	-1.01	-79.83
7,362.00	2.42	74.43	6,286.30	-661.30	2,736.45	-1,922.55	3,344.30	3.07	1.21	-104.92
7,458.00	2.33	70.21	6,382.22	-757.22	2,737.66	-1,918.76	3,343.11	0.20	-0.09	-4.40
7,553.00	2.11	76.10	6,477.15	-852.15	2,738.73	-1,915.24	3,341.97	0.33	-0.23	6.20
7,648.00	1.63	74.69	6,572.10	-947.10	2,739.51	-1,912.24	3,340.88	0.51	-0.51	-1.48
7,743.00	1.36	82.69	6,667.07	-1,042.07	2,740.01	-1,909.82	3,339.90	0.36	-0.28	8.42
7,839.00	1.85	104.05	6,763.03	-1,138.03	2,739.78	-1,907.19	3,338.20	0.80	0.51	22.25
7,934.00	2.11	102.73	6,857.97	-1,232.97	2,739.02	-1,904.00	3,335.75	0.28	0.27	-1.39
8,029.00	2.20	104.58	6,952.91	-1,327.91	2,738.17	-1,900.53	3,333.06	0.12	0.09	1.95
8,125.00	1.89	122.77	7,048.85	-1,423.85	2,736.85	-1,897.41	3,330.19	0.74	-0.32	18.95
8,221.00	2.42	120.48	7,144.78	-1,519.78	2,734.97	-1,894.33	3,326.88	0.56	0.55	-2.39
8,316.00	2.37	121.89	7,239.70	-1,614.70	2,732.91	-1,890.94	3,323.25	0.08	-0.05	1.48
8,412.00	2.11	124.97	7,335.62	-1,710.62	2,730.85	-1,887.80	3,319.76	0.30	-0.27	3.21
8,507.00	2.46	150.10	7,430.55	-1,805.55	2,728.08	-1,885.35	3,316.09	1.11	0.37	26.45
8,602.00	2.29	167.95	7,525.47	-1,900.47	2,724.46	-1,883.94	3,312.31	0.80	-0.18	18.79
8,696.00	2.33	176.21	7,619.39	-1,994.39	2,720.71	-1,883.42	3,308.95	0.36	0.04	8.79
8,792.00	2.29	173.92	7,715.31	-2,090.31	2,716.86	-1,883.09	3,305.60	0.10	-0.04	-2.39
8,887.00	1.98	162.85	7,810.25	-2,185.25	2,713.40	-1,882.41	3,302.38	0.54	-0.33	-11.65
8,982.00	1.63	172.69	7,905.20	-2,280.20	2,710.50	-1,881.75	3,299.62	0.49	-0.37	10.36
9,078.00	1.54	169.88	8,001.16	-2,376.16	2,707.87	-1,881.35	3,297.24	0.12	-0.09	-2.93
9,173.00	1.32	194.75	8,096.14	-2,471.14	2,705.56	-1,881.40	3,295.38	0.69	-0.23	26.18
9,269.00	1.19	251.53	8,192.12	-2,567.12	2,704.17	-1,882.63	3,294.95	1.25	-0.14	59.15
9,364.00	1.67	231.40	8,287.09	-2,662.09	2,703.00	-1,884.65	3,295.15	0.72	0.51	-21.19
9,459.00	1.54	238.35	8,382.05	-2,757.05	2,701.46	-1,886.82	3,295.14	0.25	-0.14	7.32
9,486.00	1.89	246.52	8,409.04	-2,784.04	2,701.09	-1,887.53	3,295.25	1.58	1.30	30.26
Extrapolation To TD										
9,536.00	1.89	246.52	8,459.01	-2,834.01	2,700.44	-1,889.05	3,295.58	0.00	0.00	0.00



Company:	WPX Energy Rocky Mountain, LLC	Local Co-ordinate Reference:	Well RWF 331-23 - Slot B05
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 331-23	North Reference:	True
Wellbore:	14-09-144	Survey Calculation Method:	Minimum Curvature
Design:	Final Surveys - Jan.2nd,2015	Database:	SRV_EDM_2011

Casing Points					
	Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)
	1,228.00	1,129.92	Actual SFC	0.000	0.000

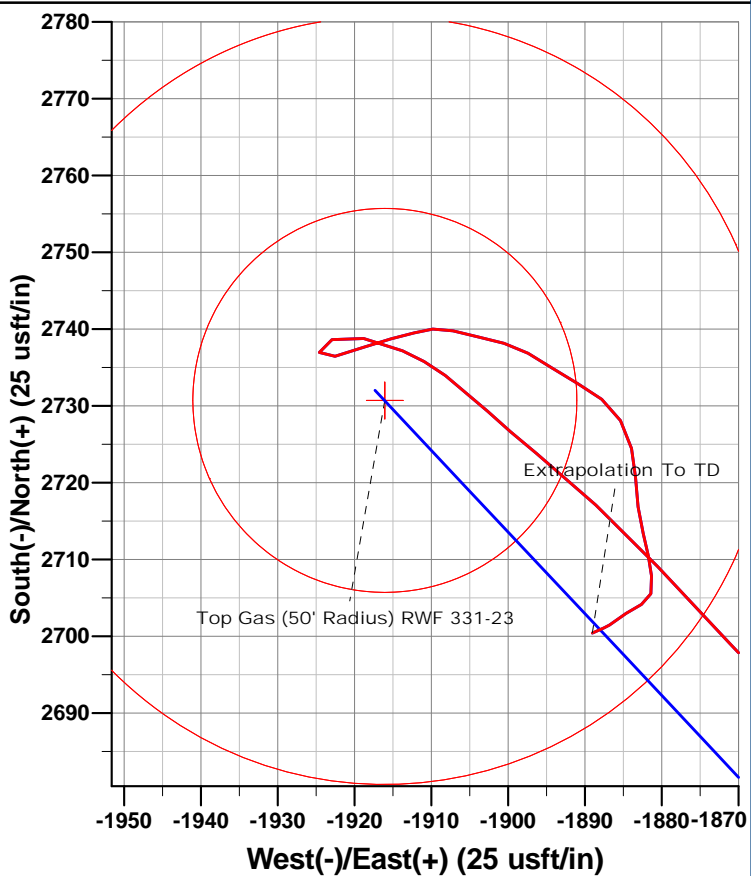
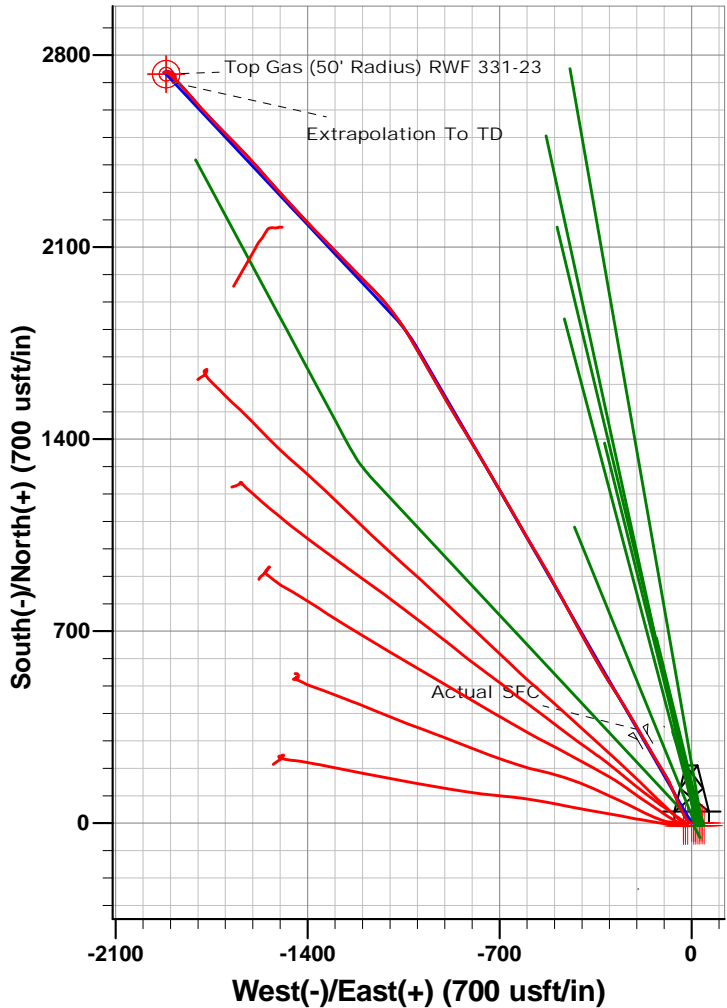
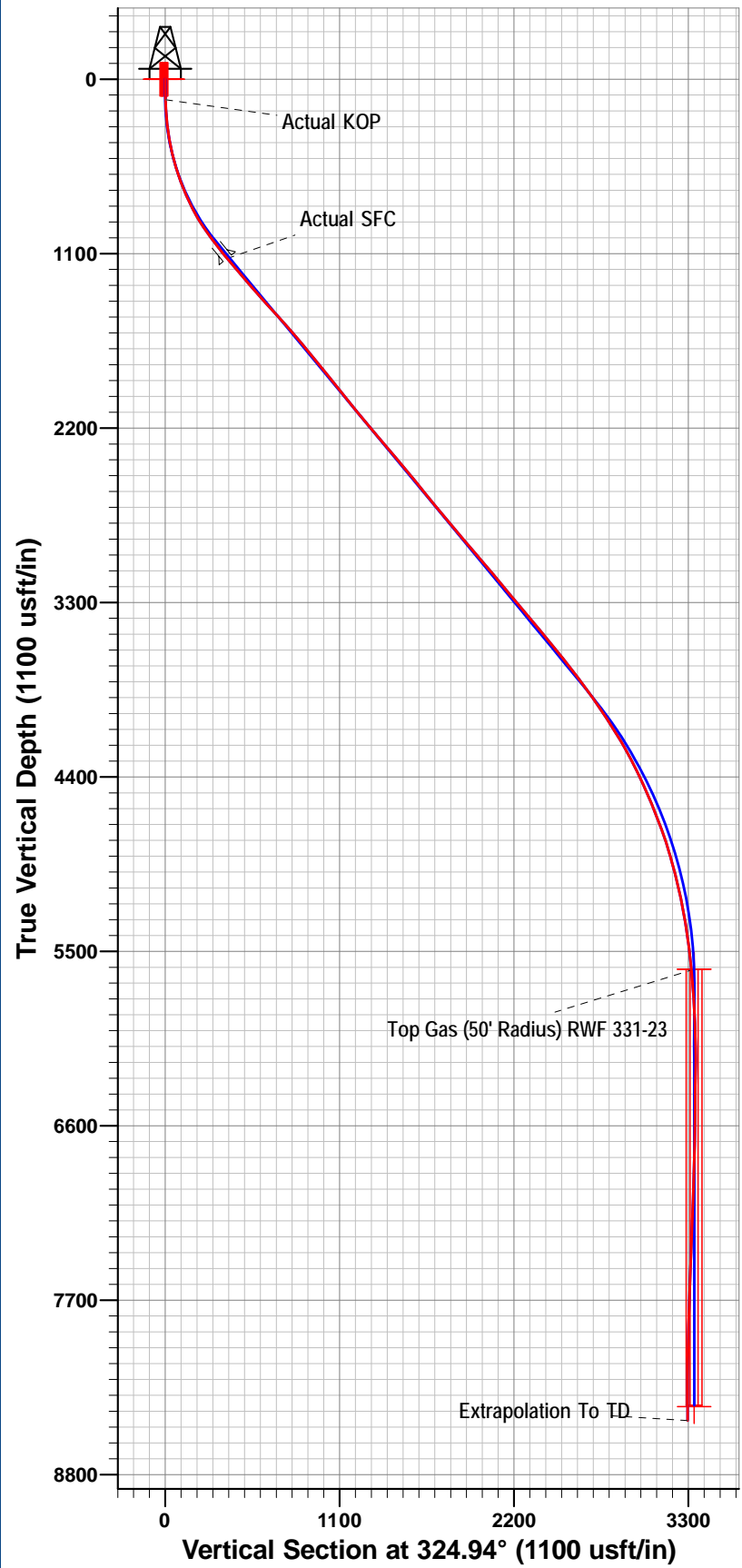


WPX Energy Rocky Mountain, LLC
RU 23-06S-094W
RWF 43-23 Pad
RWF 331-23
14-09-144
Final Surveys - Jan.2nd,2015

REFERENCE INFORMATION
Magnetic Declination - 9.83°
Magnetic Dip Angle - 65.68°
Field Strength - 51925
KB Elevation - KELLY BUSHING @ 5625.00usft (Nabors 577 (26' RKB) mab)
Ground Level - 5599.00
Well Center Northing - 1619214.50
Well Center Easting - 2337874.00
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	-0.58	-22.50
W/C_RWF_331-23	0.00	0.00	0.00
W/C_RWF_332-23	0.00	-10.38	-14.74
W/C_RWF_341-23	0.00	0.39	15.00
W/C_RWF_342-23	0.00	-9.61	15.25
W/C_RWF_41-23	0.00	0.79	29.99
W/C_RWF_42-23	0.00	-9.22	30.25
W/C_RWF_431-23	0.00	-0.77	-29.99
W/C_RWF_432-23	0.00	-10.77	-29.73
W/C_RWF_43-23	0.00	-9.80	7.76
W/C_RWF_441-23	0.00	-9.42	22.75
W/C_RWF_442-23	0.00	-9.03	37.75
W/C_RWF_531-23	0.00	0.19	7.50
W/C_RWF_541-23	0.00	0.97	37.49
W/C_RWF_542-23	0.00	-8.83	45.25
W/C_RWF_633-23	0.00	-10.58	-22.24
Top Gas (25' Radius) RWF 331-23	5613.00	2730.72	-1916.05
Top Gas (50' Radius) RWF 331-23	5613.00	2730.72	-1916.05
TD / PBHL RWF 331-23	8372.00	2730.72	-1916.05



CASING DETAILS

TVD	MD	Name
1129.92	1228.00	Actual SFC

Survey: Surveys To TD (RWF 331-23/14-09-144)

Created By: Abby Nieradka Date: 8:06, January 02 2015