



PROJECT DETAILS: Weld County, CO NAD 83

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Colorado Northern Zone
System Datum: Mean Sea Level
Local North: True

Project: Weld County, CO NAD 83
Site: Fox Creek 25 SW Pad
Well: Fox Creek 36-0164B
Wellbore: OH
Design: Plan 1



Azimuths to True North
Magnetic North: 8.28°

Magnetic Field
Strength: 52808.0snT
Dip Angle: 67.28°
Date: 10/17/2018
Model: HDGM



Plan: Plan 1 (Fox Creek 36-0164B/OH)

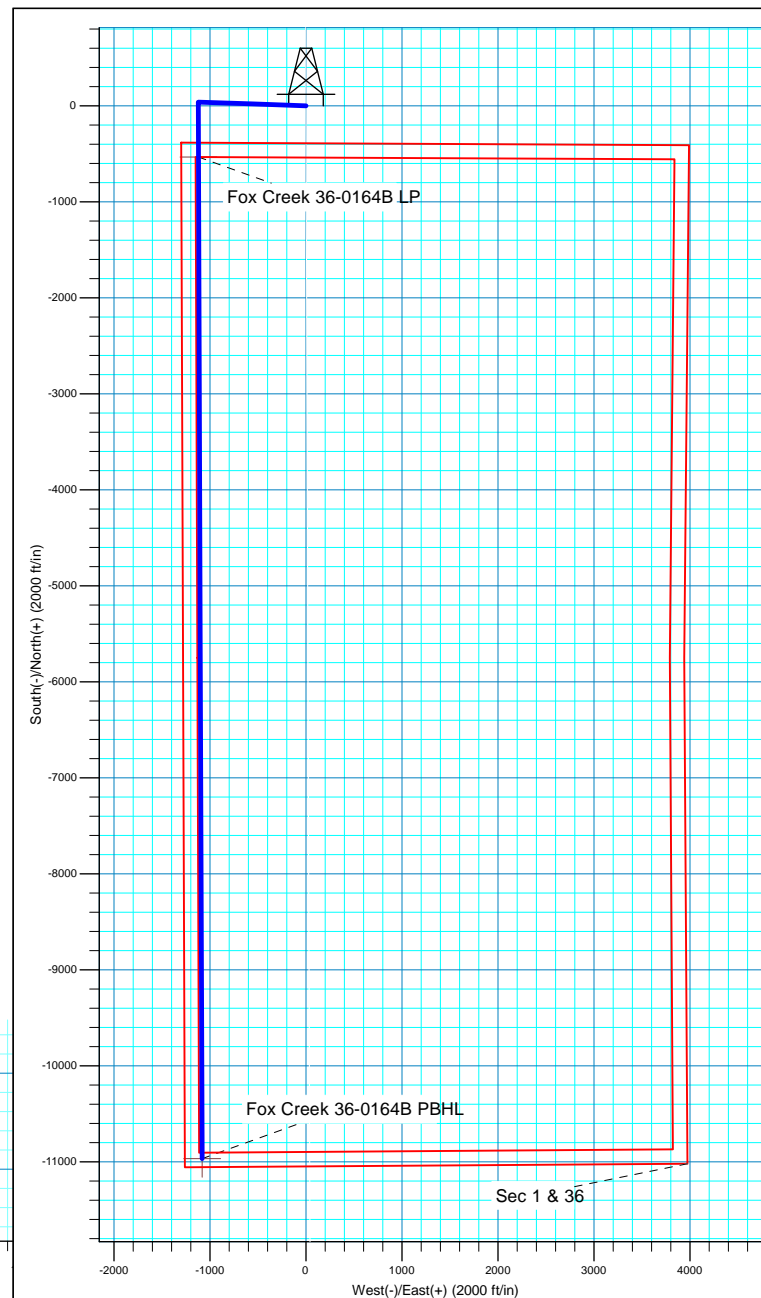
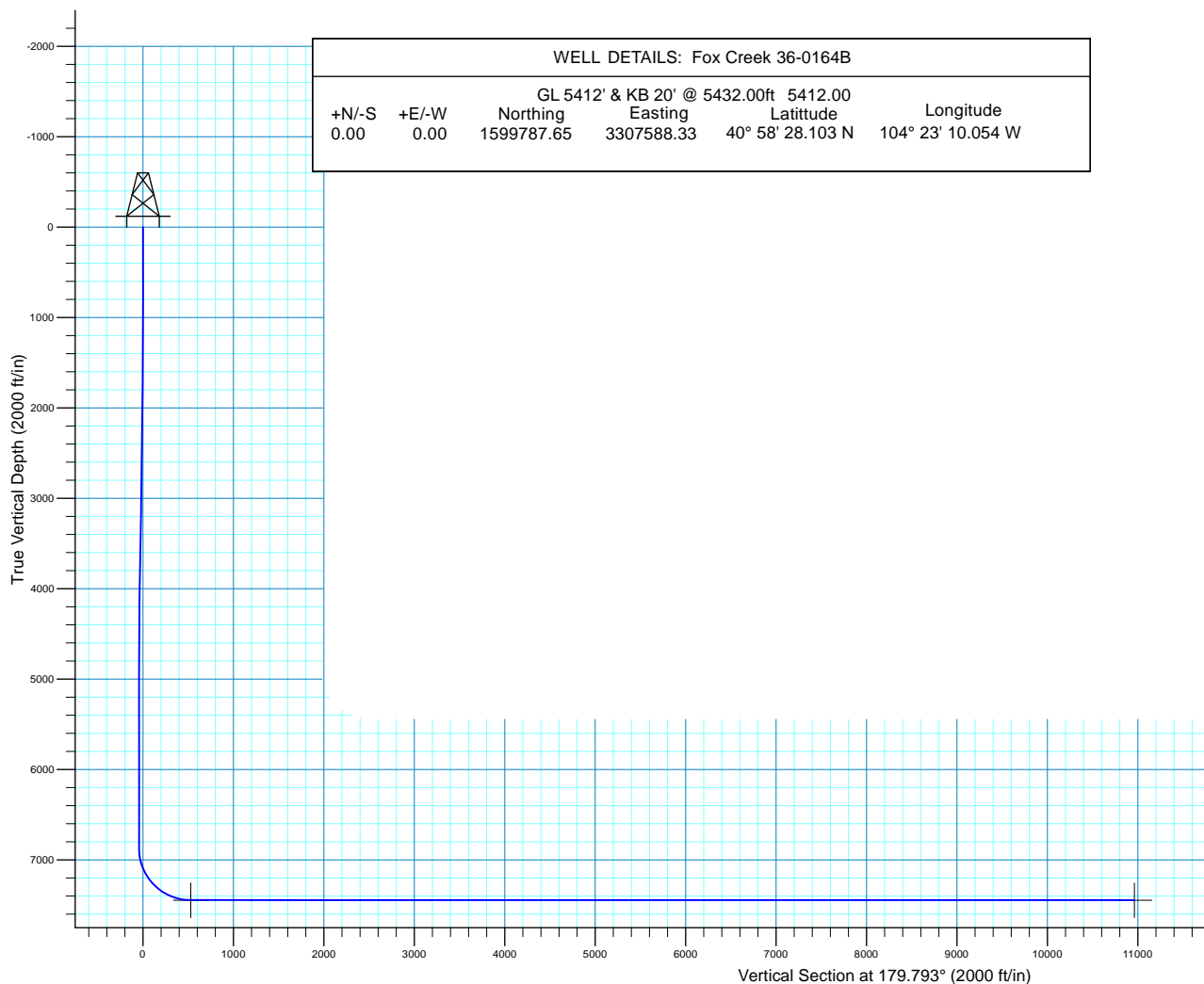
Created By: Seth Burstad

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.000	500.00	0.00	0.00	0.00	0.00	0.00
750.00	5.00	272.003	749.68	0.38	-10.89	2.00	272.00	-0.42
1703.95	5.00	272.003	1700.00	3.29	-93.99	0.00	0.00	-3.63
2703.98	25.00	272.003	2661.06	12.29	-351.35	2.00	0.00	-13.56
3679.50	25.00	272.003	3545.17	26.69	-763.38	0.00	0.00	-29.45
5346.21	0.00	0.000	5159.50	39.20	-1121.06	1.50	180.00	-43.25
7059.75	0.00	0.000	6873.04	39.20	-1121.06	0.00	0.00	-43.25
7959.75	90.00	179.793	7446.00	-533.75	-1118.99	10.00	179.79	529.71
18392.88	90.00	179.793	7446.00	-10966.81	-1081.34	0.00	0.00	10962.84

WELL DETAILS: Fox Creek 36-0164B

GL 5412' & KB 20' @ 5432.00ft 5412.00
+N/-S +E/-W Northing Easting Latitude Longitude
0.00 0.00 1599787.65 3307588.33 40° 58' 28.103 N 104° 23' 10.054 W





HighPoint Resources

Weld County, CO NAD 83
Fox Creek 25 SW Pad
Fox Creek 36-0164B

OH

Plan: Plan 1

Standard Planning Report

17 October, 2018



Database:	Casper District	Local Co-ordinate Reference:	Well Fox Creek 36-0164B
Company:	HighPoint Resources	TVD Reference:	GL 5412' & KB 20' @ 5432.00ft
Project:	Weld County, CO NAD 83	MD Reference:	GL 5412' & KB 20' @ 5432.00ft
Site:	Fox Creek 25 SW Pad	North Reference:	True
Well:	Fox Creek 36-0164B	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

Project	Weld County, CO NAD 83		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site	Fox Creek 25 SW Pad, Site Center : Fox Creek 25-6104B				
Site Position:		Northing:	1,599,789.47 usft	Latitude:	40° 58' 28.092 N
From:	Lat/Long	Easting:	3,307,818.08 usft	Longitude:	104° 23' 7.058 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.72 °

Well	Fox Creek 36-0164B, 390' FSL 1296' FWL Sec 25 T12N R63W					
Well Position	+N/-S	1.07 ft	Northing:	1,599,787.65 usft	Latitude:	40° 58' 28.103 N
	+E/-W	-229.76 ft	Easting:	3,307,588.33 usft	Longitude:	104° 23' 10.054 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	0.00 ft	Ground Level:	5,412.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	10/17/2018	8.28	67.28	52,808

Design	Plan 1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	179.793

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
500.00	0.00	0.000	500.00	0.00	0.00	0.00	0.00	0.00	0.00	
750.00	5.00	272.003	749.68	0.38	-10.89	2.00	2.00	0.00	272.00	
1,703.95	5.00	272.003	1,700.00	3.29	-93.99	0.00	0.00	0.00	0.00	
2,703.98	25.00	272.003	2,661.06	12.29	-351.35	2.00	2.00	0.00	0.00	
3,679.50	25.00	272.003	3,545.17	26.69	-763.38	0.00	0.00	0.00	0.00	
5,346.21	0.00	0.000	5,159.50	39.20	-1,121.06	1.50	-1.50	0.00	180.00	
7,059.75	0.00	0.000	6,873.04	39.20	-1,121.06	0.00	0.00	0.00	0.00	
7,959.75	90.00	179.793	7,446.00	-533.75	-1,118.99	10.00	10.00	19.98	179.79	
18,392.89	90.00	179.793	7,446.00	-10,966.82	-1,081.34	0.00	0.00	0.00	0.00	Fox Creek 36-0164B

Database:	Casper District	Local Co-ordinate Reference:	Well Fox Creek 36-0164B
Company:	HighPoint Resources	TVD Reference:	GL 5412' & KB 20' @ 5432.00ft
Project:	Weld County, CO NAD 83	MD Reference:	GL 5412' & KB 20' @ 5432.00ft
Site:	Fox Creek 25 SW Pad	North Reference:	True
Well:	Fox Creek 36-0164B	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

Planned 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)
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.000	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.000	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.000	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.000	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.000	500.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
600.00	2.00	272.003	599.98	0.06	-1.74	-0.07	2.00	2.00	0.00
700.00	4.00	272.003	699.84	0.24	-6.97	-0.27	2.00	2.00	0.00
750.00	5.00	272.003	749.68	0.38	-10.89	-0.42	2.00	2.00	0.00
Start 953.95 hold at 750.00 MD									
800.00	5.00	272.003	799.49	0.53	-15.25	-0.59	0.00	0.00	0.00
900.00	5.00	272.003	899.11	0.84	-23.96	-0.92	0.00	0.00	0.00
1,000.00	5.00	272.003	998.73	1.14	-32.67	-1.26	0.00	0.00	0.00
1,100.00	5.00	272.003	1,098.35	1.45	-41.38	-1.60	0.00	0.00	0.00
1,200.00	5.00	272.003	1,197.97	1.75	-50.09	-1.93	0.00	0.00	0.00
1,300.00	5.00	272.003	1,297.59	2.06	-58.80	-2.27	0.00	0.00	0.00
1,400.00	5.00	272.003	1,397.21	2.36	-67.51	-2.60	0.00	0.00	0.00
1,500.00	5.00	272.003	1,496.83	2.67	-76.22	-2.94	0.00	0.00	0.00
1,600.00	5.00	272.003	1,596.45	2.97	-84.93	-3.28	0.00	0.00	0.00
1,700.00	5.00	272.003	1,696.07	3.27	-93.64	-3.61	0.00	0.00	0.00
1,703.95	5.00	272.003	1,700.00	3.29	-93.99	-3.63	0.00	0.00	0.00
Start DLS 2.00 TFO 0.00									
1,800.00	6.92	272.003	1,795.53	3.64	-103.95	-4.01	2.00	2.00	0.00
1,900.00	8.92	272.003	1,894.57	4.12	-117.73	-4.54	2.00	2.00	0.00
2,000.00	10.92	272.003	1,993.07	4.72	-134.94	-5.21	2.00	2.00	0.00
2,100.00	12.92	272.003	2,090.91	5.44	-155.59	-6.00	2.00	2.00	0.00
2,200.00	14.92	272.003	2,187.97	6.28	-179.63	-6.93	2.00	2.00	0.00
2,300.00	16.92	272.003	2,284.12	7.24	-207.04	-7.99	2.00	2.00	0.00
2,400.00	18.92	272.003	2,379.27	8.32	-237.79	-9.17	2.00	2.00	0.00
2,500.00	20.92	272.003	2,473.28	9.51	-271.84	-10.49	2.00	2.00	0.00
2,600.00	22.92	272.003	2,566.04	10.81	-309.15	-11.93	2.00	2.00	0.00
2,700.00	24.92	272.003	2,657.45	12.23	-349.67	-13.49	2.00	2.00	0.00
2,703.98	25.00	272.003	2,661.06	12.29	-351.35	-13.56	2.00	2.00	0.00
Start 975.52 hold at 2703.98 MD									
2,800.00	25.00	272.003	2,748.08	13.70	-391.91	-15.12	0.00	0.00	0.00
2,900.00	25.00	272.003	2,838.71	15.18	-434.14	-16.75	0.00	0.00	0.00
3,000.00	25.00	272.003	2,929.34	16.66	-476.38	-18.38	0.00	0.00	0.00
3,100.00	25.00	272.003	3,019.97	18.13	-518.62	-20.01	0.00	0.00	0.00
3,200.00	25.00	272.003	3,110.60	19.61	-560.85	-21.64	0.00	0.00	0.00
3,300.00	25.00	272.003	3,201.23	21.09	-603.09	-23.27	0.00	0.00	0.00
3,400.00	25.00	272.003	3,291.86	22.57	-645.33	-24.90	0.00	0.00	0.00
3,500.00	25.00	272.003	3,382.49	24.04	-687.57	-26.53	0.00	0.00	0.00
3,600.00	25.00	272.003	3,473.12	25.52	-729.80	-28.16	0.00	0.00	0.00
3,679.50	25.00	272.003	3,545.17	26.69	-763.38	-29.45	0.00	0.00	0.00
Start Drop -1.50									
3,700.00	24.69	272.003	3,563.78	26.99	-771.99	-29.78	1.50	-1.50	0.00
3,800.00	23.19	272.003	3,655.17	28.41	-812.55	-31.35	1.50	-1.50	0.00
3,900.00	21.69	272.003	3,747.59	29.75	-850.70	-32.82	1.50	-1.50	0.00
4,000.00	20.19	272.003	3,840.98	31.00	-886.42	-34.20	1.50	-1.50	0.00
4,100.00	18.69	272.003	3,935.28	32.16	-919.69	-35.48	1.50	-1.50	0.00
4,200.00	17.19	272.003	4,030.41	33.24	-950.47	-36.67	1.50	-1.50	0.00
4,300.00	15.69	272.003	4,126.32	34.22	-978.76	-37.76	1.50	-1.50	0.00
4,400.00	14.19	272.003	4,222.93	35.13	-1,004.53	-38.75	1.50	-1.50	0.00

Database:	Casper District	Local Co-ordinate Reference:	Well Fox Creek 36-0164B
Company:	HighPoint Resources	TVD Reference:	GL 5412' & KB 20' @ 5432.00ft
Project:	Weld County, CO NAD 83	MD Reference:	GL 5412' & KB 20' @ 5432.00ft
Site:	Fox Creek 25 SW Pad	North Reference:	True
Well:	Fox Creek 36-0164B	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

Planned 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)
4,500.00	12.69	272.003	4,320.19	35.94	-1,027.77	-39.65	1.50	-1.50	0.00
4,600.00	11.19	272.003	4,418.02	36.66	-1,048.45	-40.45	1.50	-1.50	0.00
4,700.00	9.69	272.003	4,516.37	37.29	-1,066.56	-41.15	1.50	-1.50	0.00
4,800.00	8.19	272.003	4,615.15	37.84	-1,082.10	-41.75	1.50	-1.50	0.00
4,900.00	6.69	272.003	4,714.30	38.29	-1,095.04	-42.25	1.50	-1.50	0.00
5,000.00	5.19	272.003	4,813.76	38.65	-1,105.39	-42.65	1.50	-1.50	0.00
5,100.00	3.69	272.003	4,913.46	38.92	-1,113.13	-42.94	1.50	-1.50	0.00
5,200.00	2.19	272.003	5,013.32	39.10	-1,118.26	-43.14	1.50	-1.50	0.00
5,300.00	0.69	272.003	5,113.29	39.19	-1,120.78	-43.24	1.50	-1.50	0.00
5,346.21	0.00	0.000	5,159.50	39.20	-1,121.06	-43.25	1.50	-1.50	0.00
Start 1713.54 hold at 5346.21 MD									
5,400.00	0.00	0.000	5,213.29	39.20	-1,121.06	-43.25	0.00	0.00	0.00
5,500.00	0.00	0.000	5,313.29	39.20	-1,121.06	-43.25	0.00	0.00	0.00
5,600.00	0.00	0.000	5,413.29	39.20	-1,121.06	-43.25	0.00	0.00	0.00
5,700.00	0.00	0.000	5,513.29	39.20	-1,121.06	-43.25	0.00	0.00	0.00
5,800.00	0.00	0.000	5,613.29	39.20	-1,121.06	-43.25	0.00	0.00	0.00
5,900.00	0.00	0.000	5,713.29	39.20	-1,121.06	-43.25	0.00	0.00	0.00
6,000.00	0.00	0.000	5,813.29	39.20	-1,121.06	-43.25	0.00	0.00	0.00
6,100.00	0.00	0.000	5,913.29	39.20	-1,121.06	-43.25	0.00	0.00	0.00
6,200.00	0.00	0.000	6,013.29	39.20	-1,121.06	-43.25	0.00	0.00	0.00
6,300.00	0.00	0.000	6,113.29	39.20	-1,121.06	-43.25	0.00	0.00	0.00
6,400.00	0.00	0.000	6,213.29	39.20	-1,121.06	-43.25	0.00	0.00	0.00
6,500.00	0.00	0.000	6,313.29	39.20	-1,121.06	-43.25	0.00	0.00	0.00
6,600.00	0.00	0.000	6,413.29	39.20	-1,121.06	-43.25	0.00	0.00	0.00
6,700.00	0.00	0.000	6,513.29	39.20	-1,121.06	-43.25	0.00	0.00	0.00
6,800.00	0.00	0.000	6,613.29	39.20	-1,121.06	-43.25	0.00	0.00	0.00
6,900.00	0.00	0.000	6,713.29	39.20	-1,121.06	-43.25	0.00	0.00	0.00
7,000.00	0.00	0.000	6,813.29	39.20	-1,121.06	-43.25	0.00	0.00	0.00
7,059.75	0.00	0.000	6,873.04	39.20	-1,121.06	-43.25	0.00	0.00	0.00
Start DLS 10.00 TFO 179.79									
7,100.00	4.02	179.793	6,913.25	37.79	-1,121.05	-41.84	10.00	10.00	0.00
7,200.00	14.02	179.793	7,011.89	22.12	-1,121.00	-26.17	10.00	10.00	0.00
7,300.00	24.02	179.793	7,106.31	-10.44	-1,120.88	6.39	10.00	10.00	0.00
7,400.00	34.02	179.793	7,193.64	-58.89	-1,120.71	54.84	10.00	10.00	0.00
7,500.00	44.02	179.793	7,271.23	-121.78	-1,120.48	117.73	10.00	10.00	0.00
7,600.00	54.02	179.793	7,336.72	-197.18	-1,120.21	193.13	10.00	10.00	0.00
7,700.00	64.02	179.793	7,388.12	-282.81	-1,119.90	278.76	10.00	10.00	0.00
7,800.00	74.02	179.793	7,423.87	-376.06	-1,119.56	372.02	10.00	10.00	0.00
7,900.00	84.02	179.793	7,442.89	-474.11	-1,119.21	470.06	10.00	10.00	0.00
7,959.75	90.00	179.793	7,446.00	-533.75	-1,118.99	529.71	10.00	10.00	0.00
Start 10433.14 hold at 7959.75 MD									
8,000.00	90.00	179.793	7,446.00	-574.00	-1,118.85	569.95	0.00	0.00	0.00
8,100.00	90.00	179.793	7,446.00	-674.00	-1,118.49	669.95	0.00	0.00	0.00
8,200.00	90.00	179.793	7,446.00	-774.00	-1,118.13	769.95	0.00	0.00	0.00
8,300.00	90.00	179.793	7,446.00	-874.00	-1,117.76	869.95	0.00	0.00	0.00
8,400.00	90.00	179.793	7,446.00	-974.00	-1,117.40	969.95	0.00	0.00	0.00
8,500.00	90.00	179.793	7,446.00	-1,074.00	-1,117.04	1,069.95	0.00	0.00	0.00
8,600.00	90.00	179.793	7,446.00	-1,174.00	-1,116.68	1,169.95	0.00	0.00	0.00
8,700.00	90.00	179.793	7,446.00	-1,274.00	-1,116.32	1,269.95	0.00	0.00	0.00
8,800.00	90.00	179.793	7,446.00	-1,374.00	-1,115.96	1,369.95	0.00	0.00	0.00
8,900.00	90.00	179.793	7,446.00	-1,474.00	-1,115.60	1,469.95	0.00	0.00	0.00
9,000.00	90.00	179.793	7,446.00	-1,573.99	-1,115.24	1,569.95	0.00	0.00	0.00
9,100.00	90.00	179.793	7,446.00	-1,673.99	-1,114.88	1,669.95	0.00	0.00	0.00

Database:	Casper District	Local Co-ordinate Reference:	Well Fox Creek 36-0164B
Company:	HighPoint Resources	TVD Reference:	GL 5412' & KB 20' @ 5432.00ft
Project:	Weld County, CO NAD 83	MD Reference:	GL 5412' & KB 20' @ 5432.00ft
Site:	Fox Creek 25 SW Pad	North Reference:	True
Well:	Fox Creek 36-0164B	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

Planned 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)
9,200.00	90.00	179.793	7,446.00	-1,773.99	-1,114.52	1,769.95	0.00	0.00	0.00
9,300.00	90.00	179.793	7,446.00	-1,873.99	-1,114.16	1,869.95	0.00	0.00	0.00
9,400.00	90.00	179.793	7,446.00	-1,973.99	-1,113.79	1,969.95	0.00	0.00	0.00
9,500.00	90.00	179.793	7,446.00	-2,073.99	-1,113.43	2,069.95	0.00	0.00	0.00
9,600.00	90.00	179.793	7,446.00	-2,173.99	-1,113.07	2,169.95	0.00	0.00	0.00
9,700.00	90.00	179.793	7,446.00	-2,273.99	-1,112.71	2,269.95	0.00	0.00	0.00
9,800.00	90.00	179.793	7,446.00	-2,373.99	-1,112.35	2,369.95	0.00	0.00	0.00
9,900.00	90.00	179.793	7,446.00	-2,473.99	-1,111.99	2,469.95	0.00	0.00	0.00
10,000.00	90.00	179.793	7,446.00	-2,573.99	-1,111.63	2,569.95	0.00	0.00	0.00
10,100.00	90.00	179.793	7,446.00	-2,673.99	-1,111.27	2,669.95	0.00	0.00	0.00
10,200.00	90.00	179.793	7,446.00	-2,773.99	-1,110.91	2,769.95	0.00	0.00	0.00
10,300.00	90.00	179.793	7,446.00	-2,873.99	-1,110.55	2,869.95	0.00	0.00	0.00
10,400.00	90.00	179.793	7,446.00	-2,973.99	-1,110.19	2,969.95	0.00	0.00	0.00
10,500.00	90.00	179.793	7,446.00	-3,073.98	-1,109.82	3,069.95	0.00	0.00	0.00
10,600.00	90.00	179.793	7,446.00	-3,173.98	-1,109.46	3,169.95	0.00	0.00	0.00
10,700.00	90.00	179.793	7,446.00	-3,273.98	-1,109.10	3,269.95	0.00	0.00	0.00
10,800.00	90.00	179.793	7,446.00	-3,373.98	-1,108.74	3,369.95	0.00	0.00	0.00
10,900.00	90.00	179.793	7,446.00	-3,473.98	-1,108.38	3,469.95	0.00	0.00	0.00
11,000.00	90.00	179.793	7,446.00	-3,573.98	-1,108.02	3,569.95	0.00	0.00	0.00
11,100.00	90.00	179.793	7,446.00	-3,673.98	-1,107.66	3,669.95	0.00	0.00	0.00
11,200.00	90.00	179.793	7,446.00	-3,773.98	-1,107.30	3,769.95	0.00	0.00	0.00
11,300.00	90.00	179.793	7,446.00	-3,873.98	-1,106.94	3,869.95	0.00	0.00	0.00
11,400.00	90.00	179.793	7,446.00	-3,973.98	-1,106.58	3,969.95	0.00	0.00	0.00
11,500.00	90.00	179.793	7,446.00	-4,073.98	-1,106.21	4,069.95	0.00	0.00	0.00
11,600.00	90.00	179.793	7,446.00	-4,173.98	-1,105.85	4,169.96	0.00	0.00	0.00
11,700.00	90.00	179.793	7,446.00	-4,273.98	-1,105.49	4,269.96	0.00	0.00	0.00
11,800.00	90.00	179.793	7,446.00	-4,373.98	-1,105.13	4,369.96	0.00	0.00	0.00
11,900.00	90.00	179.793	7,446.00	-4,473.98	-1,104.77	4,469.96	0.00	0.00	0.00
12,000.00	90.00	179.793	7,446.00	-4,573.97	-1,104.41	4,569.96	0.00	0.00	0.00
12,100.00	90.00	179.793	7,446.00	-4,673.97	-1,104.05	4,669.96	0.00	0.00	0.00
12,200.00	90.00	179.793	7,446.00	-4,773.97	-1,103.69	4,769.96	0.00	0.00	0.00
12,300.00	90.00	179.793	7,446.00	-4,873.97	-1,103.33	4,869.96	0.00	0.00	0.00
12,400.00	90.00	179.793	7,446.00	-4,973.97	-1,102.97	4,969.96	0.00	0.00	0.00
12,500.00	90.00	179.793	7,446.00	-5,073.97	-1,102.61	5,069.96	0.00	0.00	0.00
12,600.00	90.00	179.793	7,446.00	-5,173.97	-1,102.24	5,169.96	0.00	0.00	0.00
12,700.00	90.00	179.793	7,446.00	-5,273.97	-1,101.88	5,269.96	0.00	0.00	0.00
12,800.00	90.00	179.793	7,446.00	-5,373.97	-1,101.52	5,369.96	0.00	0.00	0.00
12,900.00	90.00	179.793	7,446.00	-5,473.97	-1,101.16	5,469.96	0.00	0.00	0.00
13,000.00	90.00	179.793	7,446.00	-5,573.97	-1,100.80	5,569.96	0.00	0.00	0.00
13,100.00	90.00	179.793	7,446.00	-5,673.97	-1,100.44	5,669.96	0.00	0.00	0.00
13,200.00	90.00	179.793	7,446.00	-5,773.97	-1,100.08	5,769.96	0.00	0.00	0.00
13,300.00	90.00	179.793	7,446.00	-5,873.97	-1,099.72	5,869.96	0.00	0.00	0.00
13,400.00	90.00	179.793	7,446.00	-5,973.97	-1,099.36	5,969.96	0.00	0.00	0.00
13,500.00	90.00	179.793	7,446.00	-6,073.97	-1,099.00	6,069.96	0.00	0.00	0.00
13,600.00	90.00	179.793	7,446.00	-6,173.96	-1,098.64	6,169.96	0.00	0.00	0.00
13,700.00	90.00	179.793	7,446.00	-6,273.96	-1,098.27	6,269.96	0.00	0.00	0.00
13,800.00	90.00	179.793	7,446.00	-6,373.96	-1,097.91	6,369.96	0.00	0.00	0.00
13,900.00	90.00	179.793	7,446.00	-6,473.96	-1,097.55	6,469.96	0.00	0.00	0.00
14,000.00	90.00	179.793	7,446.00	-6,573.96	-1,097.19	6,569.96	0.00	0.00	0.00
14,100.00	90.00	179.793	7,446.00	-6,673.96	-1,096.83	6,669.96	0.00	0.00	0.00
14,200.00	90.00	179.793	7,446.00	-6,773.96	-1,096.47	6,769.96	0.00	0.00	0.00
14,300.00	90.00	179.793	7,446.00	-6,873.96	-1,096.11	6,869.96	0.00	0.00	0.00
14,400.00	90.00	179.793	7,446.00	-6,973.96	-1,095.75	6,969.96	0.00	0.00	0.00
14,500.00	90.00	179.793	7,446.00	-7,073.96	-1,095.39	7,069.96	0.00	0.00	0.00

Database:	Casper District	Local Co-ordinate Reference:	Well Fox Creek 36-0164B
Company:	HighPoint Resources	TVD Reference:	GL 5412' & KB 20' @ 5432.00ft
Project:	Weld County, CO NAD 83	MD Reference:	GL 5412' & KB 20' @ 5432.00ft
Site:	Fox Creek 25 SW Pad	North Reference:	True
Well:	Fox Creek 36-0164B	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

Planned 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)	
14,600.00	90.00	179.793	7,446.00	-7,173.96	-1,095.03	7,169.96	0.00	0.00	0.00	
14,700.00	90.00	179.793	7,446.00	-7,273.96	-1,094.67	7,269.96	0.00	0.00	0.00	
14,800.00	90.00	179.793	7,446.00	-7,373.96	-1,094.30	7,369.96	0.00	0.00	0.00	
14,900.00	90.00	179.793	7,446.00	-7,473.96	-1,093.94	7,469.96	0.00	0.00	0.00	
15,000.00	90.00	179.793	7,446.00	-7,573.96	-1,093.58	7,569.96	0.00	0.00	0.00	
15,100.00	90.00	179.793	7,446.00	-7,673.95	-1,093.22	7,669.96	0.00	0.00	0.00	
15,200.00	90.00	179.793	7,446.00	-7,773.95	-1,092.86	7,769.96	0.00	0.00	0.00	
15,300.00	90.00	179.793	7,446.00	-7,873.95	-1,092.50	7,869.96	0.00	0.00	0.00	
15,400.00	90.00	179.793	7,446.00	-7,973.95	-1,092.14	7,969.96	0.00	0.00	0.00	
15,500.00	90.00	179.793	7,446.00	-8,073.95	-1,091.78	8,069.96	0.00	0.00	0.00	
15,600.00	90.00	179.793	7,446.00	-8,173.95	-1,091.42	8,169.96	0.00	0.00	0.00	
15,700.00	90.00	179.793	7,446.00	-8,273.95	-1,091.06	8,269.96	0.00	0.00	0.00	
15,800.00	90.00	179.793	7,446.00	-8,373.95	-1,090.70	8,369.96	0.00	0.00	0.00	
15,900.00	90.00	179.793	7,446.00	-8,473.95	-1,090.33	8,469.96	0.00	0.00	0.00	
16,000.00	90.00	179.793	7,446.00	-8,573.95	-1,089.97	8,569.96	0.00	0.00	0.00	
16,100.00	90.00	179.793	7,446.00	-8,673.95	-1,089.61	8,669.96	0.00	0.00	0.00	
16,200.00	90.00	179.793	7,446.00	-8,773.95	-1,089.25	8,769.96	0.00	0.00	0.00	
16,300.00	90.00	179.793	7,446.00	-8,873.95	-1,088.89	8,869.96	0.00	0.00	0.00	
16,400.00	90.00	179.793	7,446.00	-8,973.95	-1,088.53	8,969.96	0.00	0.00	0.00	
16,500.00	90.00	179.793	7,446.00	-9,073.95	-1,088.17	9,069.96	0.00	0.00	0.00	
16,600.00	90.00	179.793	7,446.00	-9,173.95	-1,087.81	9,169.96	0.00	0.00	0.00	
16,700.00	90.00	179.793	7,446.00	-9,273.94	-1,087.45	9,269.96	0.00	0.00	0.00	
16,800.00	90.00	179.793	7,446.00	-9,373.94	-1,087.09	9,369.96	0.00	0.00	0.00	
16,900.00	90.00	179.793	7,446.00	-9,473.94	-1,086.73	9,469.96	0.00	0.00	0.00	
17,000.00	90.00	179.793	7,446.00	-9,573.94	-1,086.36	9,569.96	0.00	0.00	0.00	
17,100.00	90.00	179.793	7,446.00	-9,673.94	-1,086.00	9,669.96	0.00	0.00	0.00	
17,200.00	90.00	179.793	7,446.00	-9,773.94	-1,085.64	9,769.96	0.00	0.00	0.00	
17,300.00	90.00	179.793	7,446.00	-9,873.94	-1,085.28	9,869.96	0.00	0.00	0.00	
17,400.00	90.00	179.793	7,446.00	-9,973.94	-1,084.92	9,969.96	0.00	0.00	0.00	
17,500.00	90.00	179.793	7,446.00	-10,073.94	-1,084.56	10,069.96	0.00	0.00	0.00	
17,600.00	90.00	179.793	7,446.00	-10,173.94	-1,084.20	10,169.96	0.00	0.00	0.00	
17,700.00	90.00	179.793	7,446.00	-10,273.94	-1,083.84	10,269.96	0.00	0.00	0.00	
17,800.00	90.00	179.793	7,446.00	-10,373.94	-1,083.48	10,369.96	0.00	0.00	0.00	
17,900.00	90.00	179.793	7,446.00	-10,473.94	-1,083.12	10,469.96	0.00	0.00	0.00	
18,000.00	90.00	179.793	7,446.00	-10,573.94	-1,082.76	10,569.96	0.00	0.00	0.00	
18,100.00	90.00	179.793	7,446.00	-10,673.94	-1,082.39	10,669.96	0.00	0.00	0.00	
18,200.00	90.00	179.793	7,446.00	-10,773.93	-1,082.03	10,769.96	0.00	0.00	0.00	
18,300.00	90.00	179.793	7,446.00	-10,873.93	-1,081.67	10,869.96	0.00	0.00	0.00	
18,392.89	90.00	179.793	7,446.00	-10,966.82	-1,081.34	10,962.84	0.00	0.00	0.00	
TD at 18392.89										

Database:	Casper District	Local Co-ordinate Reference:	Well Fox Creek 36-0164B
Company:	HighPoint Resources	TVD Reference:	GL 5412' & KB 20' @ 5432.00ft
Project:	Weld County, CO NAD 83	MD Reference:	GL 5412' & KB 20' @ 5432.00ft
Site:	Fox Creek 25 SW Pad	North Reference:	True
Well:	Fox Creek 36-0164B	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)		
Fox Creek 36-0164B LP	0.00	0.000	7,446.00	-533.74	-1,118.99	1,599,239.90	3,306,476.14	40° 58' 22.829 N	104° 23' 24.641 W
- plan misses target center by 0.01ft at 7959.74ft MD (7446.00 TVD, -533.75 N, -1118.99 E)									
- Point									
Fox Creek 36-0164B PB	0.00	0.000	7,446.00	-10,966.82	-1,081.34	1,588,808.14	3,306,644.83	40° 56' 39.746 N	104° 23' 24.144 W
- plan hits target center									
- Point									

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	
500.00	500.00	0.00	0.00	Start Build 2.00
750.00	749.68	0.38	-10.89	Start 953.95 hold at 750.00 MD
1,703.95	1,700.00	3.29	-93.99	Start DLS 2.00 TFO 0.00
2,703.98	2,661.06	12.29	-351.35	Start 975.52 hold at 2703.98 MD
3,679.50	3,545.17	26.69	-763.38	Start Drop -1.50
5,346.21	5,159.50	39.20	-1,121.06	Start 1713.54 hold at 5346.21 MD
7,059.75	6,873.04	39.20	-1,121.06	Start DLS 10.00 TFO 179.79
7,959.75	7,446.00	-533.75	-1,118.99	Start 10433.14 hold at 7959.75 MD
18,392.89	7,446.00	-10,966.82	-1,081.34	TD at 18392.89