



HighPoint Resources  
Project: Weld County, CO (NAD83)  
Site: Sec 32-T05-R63W Siebring Pad  
Well: Siebring 63-32-2424BN  
Wellbore: Wellbore #1  
Design: Wellbore #1 (Siebring 63-32-2424BN/Wellbore #1)  
Cade 23

WELL DETAILS: Siebring 63-32-2424BN

Ground Elevation:: 4568.30  
RKB Elevation: KB @ 4584.80usft (Cade 23)  
Rig Name: Cade 23

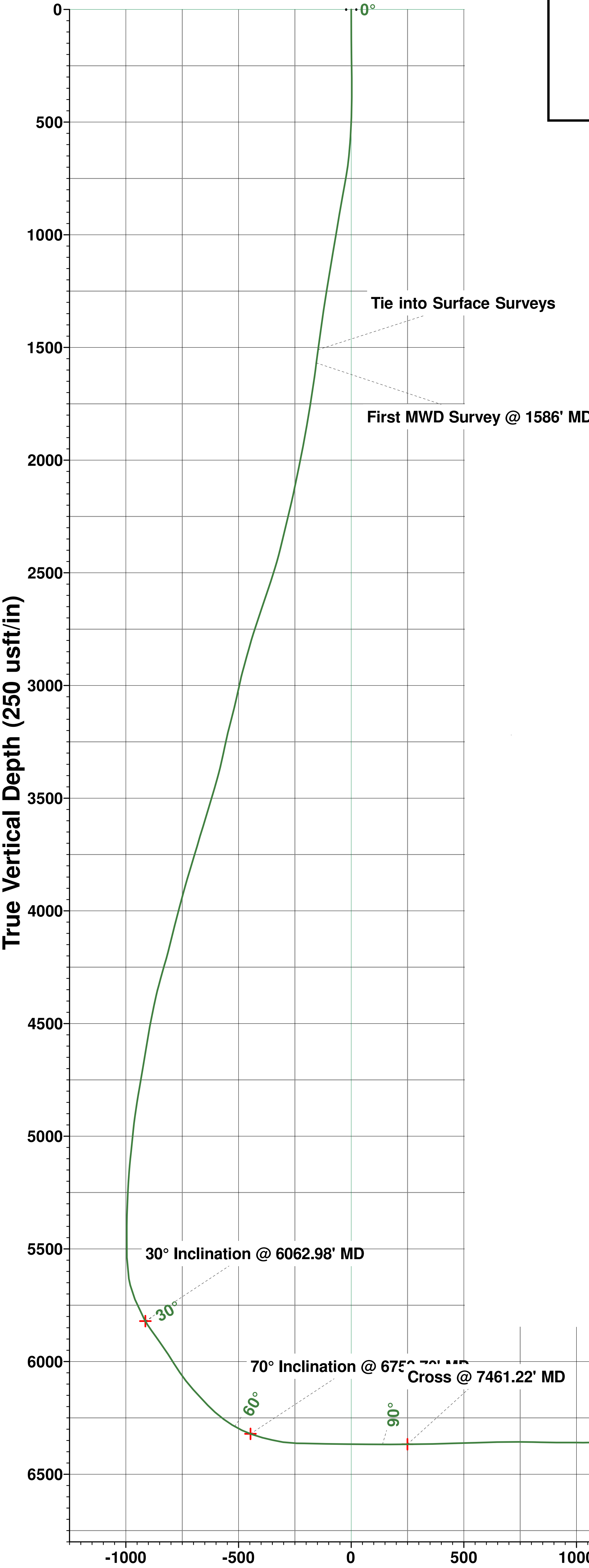


Northing	Easting	Latitude	Longitude
1374484.57	3292242.75	40.356618	-104.451340

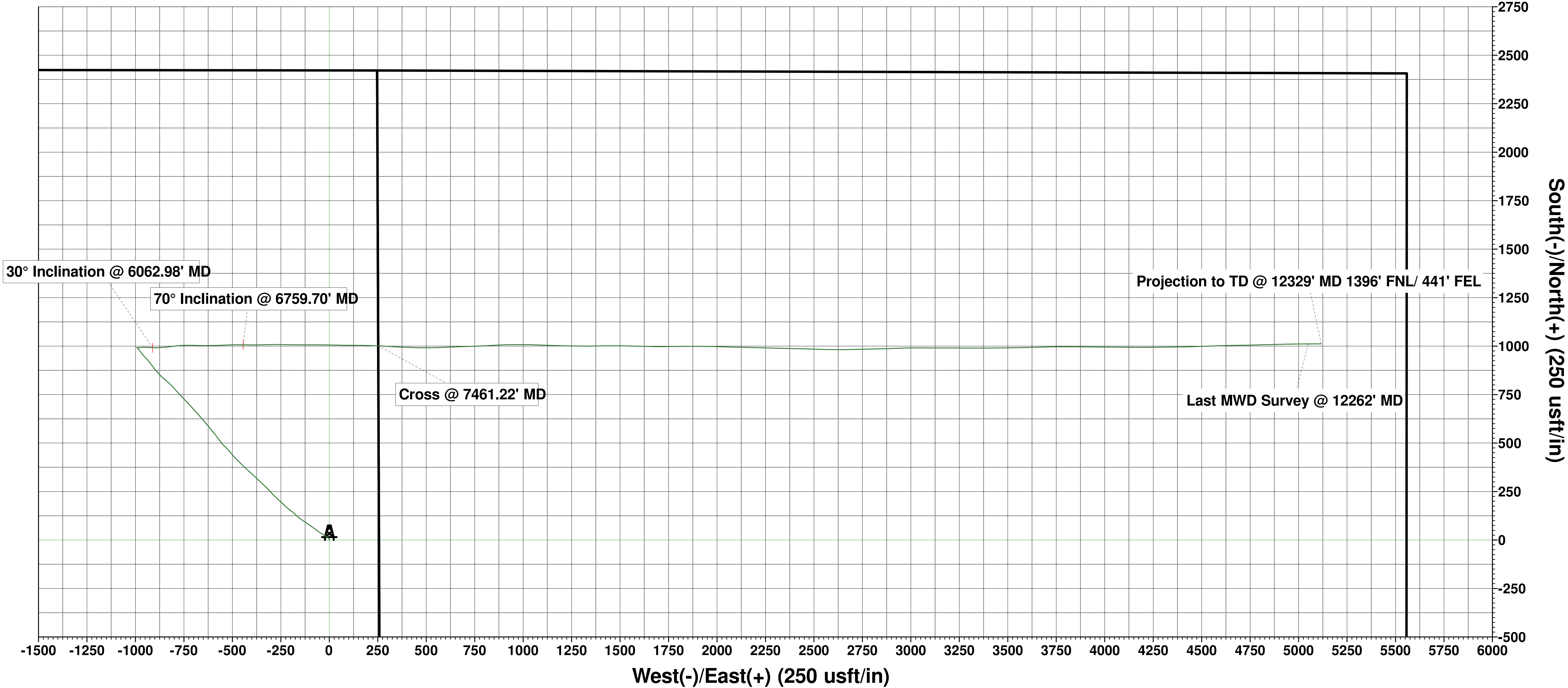
PROJECT DETAILS: Weld County, CO (NAD83)  
Geodetic System: US State Plane 1983  
Datum: North American Datum 1983  
Ellipsoid: GRS 1980  
Zone: Colorado Northern Zone  
System Datum: Mean Sea Level  
Local North: True

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure	Annotation
1526.80	9.53	305.24	1510.11	107.44	-146.54	-146.81	187.76	Tie into Surface Surveys
1586.00	9.07	307.46	1568.53	113.10	-154.25	-154.53	197.33	First MWD Survey @ 1586' MD
6062.98	29.96	94.97	5820.52	991.68	-911.04	-913.46	1500.28	30° Inclination @ 6062.98' MD
6759.70	70.00	91.13	6320.87	1007.06	-444.29	-446.75	1967.65	70° Inclination @ 6759.70' MD
7461.22	90.19	92.82	6367.24	1001.77	252.00	249.55	2663.97	Cross @ 7461.22' MD
12262.00	85.73	89.66	6375.56	1011.50	5049.86	5047.37	7463.34	Last MWD Survey @ 12262' MD
12329.00	85.73	89.66	6380.55	1011.89	5116.67	5114.18	7530.16	Projection to TD @ 12329' MD 1396' FNL/ 441' FEL



Vertical Section at 90.14° (250 usft/in)



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Mazimuths to True North

Magnetic North: 7.76°

Magnetic Field

Strength: 52109.9nT

Dip Angle: 66.80°

Date: 1/15/2020

Model: IGRF2015

# **HighPoint Resources**

**Weld County, CO (NAD83)**

**Sec 32-T05-R63W Siebring Pad**

**Siebring 63-32-2424BN**

**Wellbore #1**

**Design: Wellbore #1**

## **Standard Survey Report**

**16 March, 2020**

# Survey Report

<b>Company:</b>	HighPoint Resources	<b>Local Co-ordinate Reference:</b>	Well Siebring 63-32-2424BN
<b>Project:</b>	Weld County, CO (NAD83)	<b>TVD Reference:</b>	KB @ 4584.80usft (Cade 23)
<b>Site:</b>	Sec 32-T05-R63W Siebring Pad	<b>MD Reference:</b>	KB @ 4584.80usft (Cade 23)
<b>Well:</b>	Siebring 63-32-2424BN	<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>	EDM 5000.15 Single User Db

<b>Project</b>	Weld County, CO (NAD83)		
<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 Northern Zone		

Site		Sec 32-T05-R63W Siebring Pad			
Site Position:		Northing:	1,371,533.71 usft	Latitude:	40.348679
From:	Map	Easting:	3,287,249.45 usft	Longitude:	-104.469379
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.67 °

Well		Siebring 63-32-2424BN				
Well Position	+N/-S	0.00 usft	Northing:	1,374,484.57 usft	Latitude:	40.356618
	+E/-W	0.00 usft	Easting:	3,292,242.76 usft	Longitude:	-104.451340
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	4,568.30 usft

<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>
	IGRF2015	1/15/2020	7.76	66.80	52,109.85996751

<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) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>	
	0.00	0.00	0.00	90.14	

<b>Survey Program</b>	<b>Date</b>	3/16/2020			
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
128.80	1,526.80	Surface Surveys (Wellbore #1)	MWD	MWD - Standard	
1,586.00	12,329.00	MagVar Corrected Surveys (Wellbore #1)	MWD+HRGM	OWSG MWD + HRGM	

<b>Survey</b>										
<b>Measured Depth (usft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Vertical Section (usft)</b>	<b>Dogleg Rate (°/100usft)</b>	<b>Build Rate (°/100usft)</b>	<b>Turn Rate (°/100usft)</b>	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
128.80	0.48	76.55	128.80	0.13	0.52	0.52	0.37	0.37	0.00	
216.80	0.75	85.52	216.79	0.26	1.46	1.46	0.32	0.31	10.19	
303.80	0.79	71.89	303.79	0.49	2.60	2.59	0.21	0.05	-15.67	
390.80	1.32	336.71	390.78	1.59	2.77	2.77	1.84	0.61	-109.40	
478.80	2.68	313.68	478.72	3.95	0.88	0.87	1.77	1.55	-26.17	
565.80	4.92	315.63	565.52	8.02	-3.20	-3.22	2.58	2.57	2.24	
652.80	7.60	309.55	652.00	14.35	-10.25	-10.28	3.17	3.08	-6.99	
739.80	11.21	301.29	737.82	22.41	-21.91	-21.97	4.42	4.15	-9.49	
827.80	12.26	301.46	823.98	31.73	-37.19	-37.27	1.19	1.19	0.19	

# Survey Report

<b>Company:</b>	HighPoint Resources	<b>Local Co-ordinate Reference:</b>	Well Siebring 63-32-2424BN
<b>Project:</b>	Weld County, CO (NAD83)	<b>TVD Reference:</b>	KB @ 4584.80usft (Cade 23)
<b>Site:</b>	Sec 32-T05-R63W Siebring Pad	<b>MD Reference:</b>	KB @ 4584.80usft (Cade 23)
<b>Well:</b>	Siebring 63-32-2424BN	<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>	EDM 5000.15 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
914.80	11.56	303.75	909.11	41.39	-52.32	-52.42	0.97	-0.80	2.63
1,001.80	11.73	308.32	994.32	51.72	-66.51	-66.63	1.08	0.20	5.25
1,088.80	11.73	304.54	1,079.50	62.22	-80.73	-80.88	0.88	0.00	-4.34
1,176.80	11.56	305.95	1,165.69	72.46	-95.24	-95.41	0.38	-0.19	1.60
1,263.80	10.81	302.60	1,251.04	81.98	-109.17	-109.37	1.14	-0.86	-3.85
1,350.80	10.15	305.24	1,336.59	90.80	-122.30	-122.52	0.94	-0.76	3.03
1,437.80	9.40	303.66	1,422.32	99.16	-134.48	-134.72	0.92	-0.86	-1.82
1,526.80	9.53	305.24	1,510.11	107.44	-146.54	-146.81	0.33	0.15	1.78
Tie into Surface Surveys									
1,586.00	9.07	307.46	1,568.53	113.10	-154.25	-154.53	0.99	-0.78	3.75
First MWD Survey @ 1586' MD									
1,680.00	11.76	314.22	1,660.98	124.29	-167.00	-167.30	3.14	2.86	7.19
1,775.00	11.80	310.98	1,753.98	137.41	-181.27	-181.61	0.70	0.04	-3.41
1,869.00	12.22	306.55	1,845.92	149.64	-196.52	-196.88	1.08	0.45	-4.71
1,964.00	13.95	310.21	1,938.46	163.02	-213.34	-213.74	2.02	1.82	3.85
2,059.00	15.43	313.11	2,030.35	179.05	-231.31	-231.75	1.74	1.56	3.05
2,155.00	16.09	313.27	2,122.74	196.90	-250.32	-250.81	0.69	0.69	0.17
2,249.00	18.08	312.22	2,212.59	215.63	-270.61	-271.14	2.14	2.12	-1.12
2,344.00	18.43	315.54	2,302.81	236.26	-292.05	-292.63	1.15	0.37	3.49
2,439.00	20.21	317.48	2,392.46	259.07	-313.66	-314.29	1.99	1.87	2.04
2,533.00	22.66	313.31	2,479.95	283.46	-337.81	-338.51	3.07	2.61	-4.44
2,628.00	24.83	313.37	2,566.90	309.72	-365.63	-366.39	2.28	2.28	0.06
2,723.00	24.56	312.99	2,653.22	336.88	-394.57	-395.40	0.33	-0.28	-0.40
2,818.00	23.78	311.19	2,739.89	362.95	-423.43	-424.32	1.13	-0.82	-1.89
2,914.00	22.05	315.89	2,828.32	388.64	-450.54	-451.49	2.62	-1.80	4.90
3,009.00	20.57	312.77	2,916.82	412.78	-475.21	-476.22	1.96	-1.56	-3.28
3,105.00	18.59	321.60	3,007.29	436.23	-497.10	-498.16	3.70	-2.06	9.20
3,200.00	19.71	318.05	3,097.03	460.02	-517.22	-518.34	1.70	1.18	-3.74
3,296.00	20.46	314.10	3,187.20	483.73	-540.09	-541.27	1.61	0.78	-4.11
3,391.00	18.55	324.08	3,276.77	507.54	-560.89	-562.12	4.04	-2.01	10.51
3,486.00	21.83	321.80	3,365.92	533.66	-580.68	-581.98	3.55	3.45	-2.40
3,582.00	24.80	320.47	3,454.07	563.22	-604.54	-605.91	3.14	3.09	-1.39
3,676.00	25.12	320.28	3,539.29	593.78	-629.84	-631.28	0.35	0.34	-0.20
3,771.00	25.21	319.10	3,625.27	624.58	-655.97	-657.49	0.54	0.09	-1.24
3,867.00	23.61	318.30	3,712.69	654.39	-682.14	-683.74	1.70	-1.67	-0.83
3,962.00	24.64	317.53	3,799.39	683.20	-708.17	-709.84	1.13	1.08	-0.81
4,057.00	22.45	316.69	3,886.48	711.01	-733.99	-735.72	2.33	-2.31	-0.88
4,152.00	20.39	315.78	3,974.91	736.07	-757.98	-759.77	2.20	-2.17	-0.96
4,247.00	21.07	318.23	4,063.76	760.67	-780.89	-782.75	1.16	0.72	2.58
4,342.00	20.26	318.12	4,152.65	785.65	-803.25	-805.17	0.85	-0.85	-0.12
4,437.00	21.53	312.35	4,241.41	809.65	-827.12	-829.09	2.54	1.34	-6.07
4,532.00	18.82	308.71	4,330.57	830.98	-851.96	-853.99	3.14	-2.85	-3.83
4,628.00	17.06	318.63	4,421.92	851.24	-873.36	-875.44	3.67	-1.83	10.33

# Survey Report

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<b>Project:</b>	Weld County, CO (NAD83)	<b>TVD Reference:</b>	KB @ 4584.80usft (Cade 23)
<b>Site:</b>	Sec 32-T05-R63W Siebring Pad	<b>MD Reference:</b>	KB @ 4584.80usft (Cade 23)
<b>Well:</b>	Siebring 63-32-2424BN	<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>	EDM 5000.15 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,723.00	15.61	316.23	4,513.09	870.93	-891.41	-893.54	1.68	-1.53	-2.53
4,818.00	15.04	325.07	4,604.72	890.26	-907.31	-909.49	2.53	-0.60	9.31
4,912.00	15.54	322.06	4,695.40	910.19	-922.04	-924.26	1.00	0.53	-3.20
5,008.00	14.40	318.30	4,788.14	929.25	-937.89	-940.16	1.56	-1.19	-3.92
5,103.00	12.21	315.33	4,880.59	945.22	-952.81	-955.12	2.41	-2.31	-3.13
5,198.00	9.89	324.10	4,973.82	958.97	-964.66	-967.00	3.01	-2.44	9.23
5,294.00	9.64	320.33	5,068.43	971.84	-974.63	-977.00	0.72	-0.26	-3.93
5,385.00	7.34	323.67	5,158.43	982.39	-982.93	-985.33	2.58	-2.53	3.67
5,480.00	3.68	311.20	5,252.98	989.29	-988.83	-991.24	4.03	-3.85	-13.13
5,576.00	1.64	287.55	5,348.87	991.73	-992.45	-994.87	2.37	-2.13	-24.64
5,670.00	0.53	35.04	5,442.86	992.49	-993.49	-995.91	1.99	-1.18	114.35
5,765.00	0.19	187.42	5,537.86	992.70	-993.26	-995.68	0.74	-0.36	160.40
5,860.00	10.56	91.01	5,632.32	992.38	-984.55	-986.97	11.14	10.92	-101.48
5,890.00	14.90	84.35	5,661.58	992.72	-977.96	-980.38	15.25	14.47	-22.20
5,956.00	21.96	86.54	5,724.16	994.30	-957.17	-959.59	10.75	10.70	3.32
6,052.00	28.65	97.76	5,810.95	992.27	-916.38	-918.80	8.55	6.97	11.69
6,062.98	29.96	94.97	5,820.52	991.68	-911.04	-913.46	17.18	11.89	-25.37
30° Inclination @ 6062.98' MD									
6,082.00	32.34	90.65	5,836.80	991.21	-901.22	-903.64	17.18	12.54	-22.74
6,112.00	36.09	85.99	5,861.61	991.73	-884.37	-886.79	15.24	12.50	-15.53
6,147.00	35.30	85.41	5,890.03	993.27	-864.01	-866.43	2.46	-2.26	-1.66
6,177.00	35.58	84.97	5,914.47	994.72	-846.67	-849.10	1.26	0.93	-1.47
6,243.00	33.63	83.45	5,968.80	998.49	-809.39	-811.82	3.23	-2.95	-2.30
6,288.00	31.49	83.20	6,006.72	1,001.31	-785.33	-787.78	4.76	-4.76	-0.56
6,339.00	34.58	86.86	6,049.48	1,003.68	-757.65	-760.10	7.21	6.06	7.18
6,384.00	37.82	91.05	6,085.79	1,004.12	-731.09	-733.54	9.06	7.20	9.31
6,434.00	41.98	90.65	6,124.14	1,003.65	-699.03	-701.48	8.34	8.32	-0.80
6,479.00	43.37	91.48	6,157.22	1,003.08	-668.53	-670.98	3.33	3.09	1.84
6,529.00	43.01	90.32	6,193.68	1,002.54	-634.32	-636.76	1.74	-0.72	-2.32
6,574.00	48.83	88.19	6,224.97	1,002.99	-602.01	-604.46	13.37	12.93	-4.73
6,624.00	53.77	87.62	6,256.22	1,004.43	-563.03	-565.48	9.92	9.88	-1.14
6,669.00	58.39	87.65	6,281.33	1,005.97	-525.73	-528.18	10.27	10.27	0.07
6,719.00	64.61	89.16	6,305.18	1,007.17	-481.83	-484.29	12.72	12.44	3.02
6,759.70	70.00	91.13	6,320.87	1,007.06	-444.29	-446.75	13.97	13.24	4.84
70° Inclination @ 6759.70' MD									
6,764.00	70.57	91.33	6,322.33	1,006.98	-440.25	-442.71	13.97	13.27	4.64
6,815.00	74.78	90.17	6,337.51	1,006.35	-391.58	-394.03	8.54	8.25	-2.27
6,860.00	77.35	88.29	6,348.35	1,006.94	-347.91	-350.37	7.00	5.71	-4.18
6,909.00	80.80	89.00	6,357.63	1,008.07	-299.82	-302.28	7.18	7.04	1.45
6,970.00	89.18	91.48	6,362.96	1,007.81	-239.11	-241.57	14.32	13.74	4.07
7,004.00	89.25	90.89	6,363.42	1,007.11	-205.12	-207.58	1.75	0.21	-1.74
7,099.00	88.62	89.41	6,365.19	1,006.86	-110.14	-112.60	1.69	-0.66	-1.56
7,195.00	89.78	91.24	6,366.53	1,006.31	-14.16	-16.62	2.26	1.21	1.91
7,290.00	89.20	91.13	6,367.37	1,004.35	80.82	78.36	0.62	-0.61	-0.12

# Survey Report

<b>Company:</b>	HighPoint Resources	<b>Local Co-ordinate Reference:</b>	Well Siebring 63-32-2424BN
<b>Project:</b>	Weld County, CO (NAD83)	<b>TVD Reference:</b>	KB @ 4584.80usft (Cade 23)
<b>Site:</b>	Sec 32-T05-R63W Siebring Pad	<b>MD Reference:</b>	KB @ 4584.80usft (Cade 23)
<b>Well:</b>	Siebring 63-32-2424BN	<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>	EDM 5000.15 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,385.00	90.45	89.84	6,367.66	1,003.54	175.81	173.36	1.89	1.32	-1.36
7,461.22	90.19	92.82	6,367.24	1,001.77	252.00	249.55	3.93	-0.34	3.92
Cross @ 7461.22' MD									
7,480.00	90.13	93.56	6,367.18	1,000.73	270.75	268.30	3.93	-0.34	3.92
7,574.00	91.46	93.30	6,365.88	995.10	364.57	362.14	1.44	1.41	-0.28
7,670.00	92.00	90.64	6,362.98	991.81	460.46	458.03	2.83	0.56	-2.77
7,765.00	91.57	88.23	6,360.02	992.74	555.40	552.97	2.58	-0.45	-2.54
7,861.00	91.56	87.81	6,357.40	996.06	651.31	648.87	0.44	-0.01	-0.44
7,956.00	89.57	88.41	6,356.46	999.19	746.25	743.80	2.19	-2.09	0.63
8,051.00	88.44	86.20	6,358.11	1,003.66	841.12	838.66	2.61	-1.19	-2.33
8,147.00	90.18	89.14	6,359.27	1,007.56	937.02	934.55	3.56	1.81	3.06
8,242.00	88.94	90.86	6,360.00	1,007.56	1,032.01	1,029.55	2.23	-1.31	1.81
8,336.00	93.34	92.94	6,358.13	1,004.44	1,125.91	1,123.45	5.18	4.68	2.21
8,431.00	91.90	91.01	6,353.78	1,001.17	1,220.75	1,218.30	2.53	-1.52	-2.03
8,526.00	91.08	90.13	6,351.31	1,000.23	1,315.71	1,313.26	1.27	-0.86	-0.93
8,621.00	91.45	88.89	6,349.22	1,001.04	1,410.68	1,408.23	1.36	0.39	-1.31
8,716.00	90.36	90.24	6,347.72	1,001.76	1,505.66	1,503.21	1.83	-1.15	1.42
8,812.00	90.60	93.04	6,346.91	999.02	1,601.61	1,599.17	2.93	0.25	2.92
8,907.00	88.29	89.18	6,347.83	997.18	1,696.56	1,694.12	4.73	-2.43	-4.06
9,001.00	87.71	89.42	6,351.11	998.32	1,790.50	1,788.06	0.67	-0.62	0.26
9,097.00	89.57	89.79	6,353.39	998.98	1,886.47	1,884.02	1.98	1.94	0.39
9,192.00	90.11	91.50	6,353.66	997.91	1,981.46	1,979.01	1.89	0.57	1.80
9,287.00	89.88	91.79	6,353.66	995.19	2,076.42	2,073.98	0.39	-0.24	0.31
9,383.00	90.25	90.95	6,353.56	992.89	2,172.39	2,169.96	0.96	0.39	-0.88
9,478.00	90.56	91.84	6,352.88	990.58	2,267.36	2,264.93	0.99	0.33	0.94
9,573.00	90.04	91.47	6,352.39	987.84	2,362.32	2,359.89	0.67	-0.55	-0.39
9,669.00	90.11	90.79	6,352.26	985.94	2,458.30	2,455.88	0.71	0.07	-0.71
9,698.00	90.69	92.56	6,352.06	985.10	2,487.28	2,484.87	6.42	2.00	6.10
9,764.00	90.34	92.00	6,351.47	982.47	2,553.23	2,550.82	1.00	-0.53	-0.85
9,859.00	91.04	89.10	6,350.32	981.56	2,648.20	2,645.80	3.14	0.74	-3.05
9,954.00	91.10	88.28	6,348.55	983.73	2,743.16	2,740.75	0.87	0.06	-0.86
10,048.00	88.64	89.02	6,348.76	985.94	2,837.13	2,834.71	2.73	-2.62	0.79
10,144.00	88.49	87.44	6,351.16	988.91	2,933.05	2,930.62	1.65	-0.16	-1.65
10,239.00	88.40	90.06	6,353.74	990.98	3,027.98	3,025.55	2.76	-0.09	2.76
10,335.00	88.55	90.24	6,356.30	990.73	3,123.95	3,121.52	0.24	0.16	0.19
10,429.00	88.44	90.18	6,358.77	990.38	3,217.92	3,215.49	0.13	-0.12	-0.06
10,525.00	88.59	90.42	6,361.25	989.88	3,313.88	3,311.45	0.29	0.16	0.25
10,620.00	90.25	89.58	6,362.22	989.88	3,408.87	3,406.44	1.96	1.75	-0.88
10,716.00	90.69	88.81	6,361.43	991.23	3,504.86	3,502.43	0.92	0.46	-0.80
10,812.00	89.85	89.05	6,360.98	993.02	3,600.84	3,598.40	0.91	-0.88	0.25
10,906.00	88.87	88.03	6,362.03	995.42	3,694.80	3,692.36	1.50	-1.04	-1.09
11,002.00	89.08	90.22	6,363.74	996.88	3,790.77	3,788.32	2.29	0.22	2.28
11,097.00	89.65	90.84	6,364.80	996.00	3,885.76	3,883.31	0.89	0.60	0.65

# Survey Report

<b>Company:</b>	HighPoint Resources	<b>Local Co-ordinate Reference:</b>	Well Siebring 63-32-2424BN
<b>Project:</b>	Weld County, CO (NAD83)	<b>TVD Reference:</b>	KB @ 4584.80usft (Cade 23)
<b>Site:</b>	Sec 32-T05-R63W Siebring Pad	<b>MD Reference:</b>	KB @ 4584.80usft (Cade 23)
<b>Well:</b>	Siebring 63-32-2424BN	<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>	EDM 5000.15 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
11,193.00	90.65	89.91	6,364.55	995.38	3,981.75	3,979.31	1.42	1.04	-0.97	
11,288.00	90.46	90.93	6,363.62	994.68	4,076.75	4,074.30	1.09	-0.20	1.07	
11,383.00	91.29	89.95	6,362.17	993.95	4,171.73	4,169.29	1.35	0.87	-1.03	
11,478.00	91.34	89.42	6,359.99	994.47	4,266.70	4,264.26	0.56	0.05	-0.56	
11,573.00	91.41	89.59	6,357.71	995.29	4,361.67	4,359.23	0.19	0.07	0.18	
11,669.00	90.05	88.17	6,356.49	997.17	4,457.64	4,455.19	2.05	-1.42	-1.48	
11,764.00	90.51	87.58	6,356.03	1,000.69	4,552.57	4,550.12	0.79	0.48	-0.62	
11,859.00	89.41	89.30	6,356.09	1,003.28	4,647.53	4,645.07	2.15	-1.16	1.81	
11,955.00	88.84	88.60	6,357.56	1,005.04	4,743.51	4,741.04	0.94	-0.59	-0.73	
12,050.00	86.88	88.29	6,361.11	1,007.61	4,838.40	4,835.92	2.09	-2.06	-0.33	
12,100.00	85.82	88.53	6,364.29	1,009.00	4,888.28	4,885.80	2.17	-2.12	0.48	
12,146.00	85.44	88.66	6,367.79	1,010.12	4,934.13	4,931.65	0.87	-0.83	0.28	
12,194.00	86.52	89.67	6,371.16	1,010.82	4,982.01	4,979.52	3.08	2.25	2.10	
12,241.00	86.30	89.19	6,374.10	1,011.29	5,028.91	5,026.43	1.12	-0.47	-1.02	
12,262.00	85.73	89.66	6,375.56	1,011.50	5,049.86	5,047.37	3.51	-2.71	2.24	
Last MWD Survey @ 12262' MD										
12,329.00	85.73	89.66	6,380.55	1,011.89	5,116.67	5,114.18	0.00	0.00	0.00	
Projection to TD @ 12329' MD 1396' FNL/ 441' FEL										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
30° Inclination @ 6062.9	0.00	0.00	5,820.51	991.67	-911.04	1,375,465.39	3,291,320.06	40.359340	-104.454609	
- hit/miss target										
- Shape										
- actual wellpath misses target center by 0.01usft at 6062.98usft MD (5820.52 TVD, 991.68 N, -911.04 E)										
- Point										
70° Inclination @ 6759.7	0.00	0.00	6,320.87	1,007.07	-444.30	1,375,486.31	3,291,786.58	40.359382	-104.452935	
- actual wellpath hits target center										
- Point										
Cross @ 7461.22' MD	0.00	0.00	6,367.24	1,001.77	252.00	1,375,489.25	3,292,482.89	40.359368	-104.450436	
- actual wellpath hits target center										
- Point										

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
1,526.80	1,510.11	107.44	-146.54	Tie into Surface Surveys	
1,586.00	1,568.53	113.10	-154.25	First MWD Survey @ 1586' MD	
6,062.98	5,820.52	991.68	-911.04	30° Inclination @ 6062.98' MD	
6,759.70	6,320.87	1,007.06	-444.29	70° Inclination @ 6759.70' MD	
7,461.22	6,367.24	1,001.77	252.00	Cross @ 7461.22' MD	
12,262.00	6,375.56	1,011.50	5,049.86	Last MWD Survey @ 12262' MD	
12,329.00	6,380.55	1,011.89	5,116.67	Projection to TD @ 12329' MD 1396' FNL/ 441' FEL	

## Survey Report

<b>Company:</b>	HighPoint Resources	<b>Local Co-ordinate Reference:</b>	Well Siebring 63-32-2424BN
<b>Project:</b>	Weld County, CO (NAD83)	<b>TVD Reference:</b>	KB @ 4584.80usft (Cade 23)
<b>Site:</b>	Sec 32-T05-R63W Siebring Pad	<b>MD Reference:</b>	KB @ 4584.80usft (Cade 23)
<b>Well:</b>	Siebring 63-32-2424BN	<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>	EDM 5000.15 Single User Db

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