



HighPoint Resources
Project: Weld County, CO (NAD83)
Site: Sec 32-T05-R63W Siebring Pad
Well: Siebring 63-32-2525BN
Wellbore: Wellbore #1
Design: Wellbore #1 (Siebring 63-32-2525BN/Wellbore #1)
Cade 23

WELL DETAILS: Siebring 63-32-2525BN

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

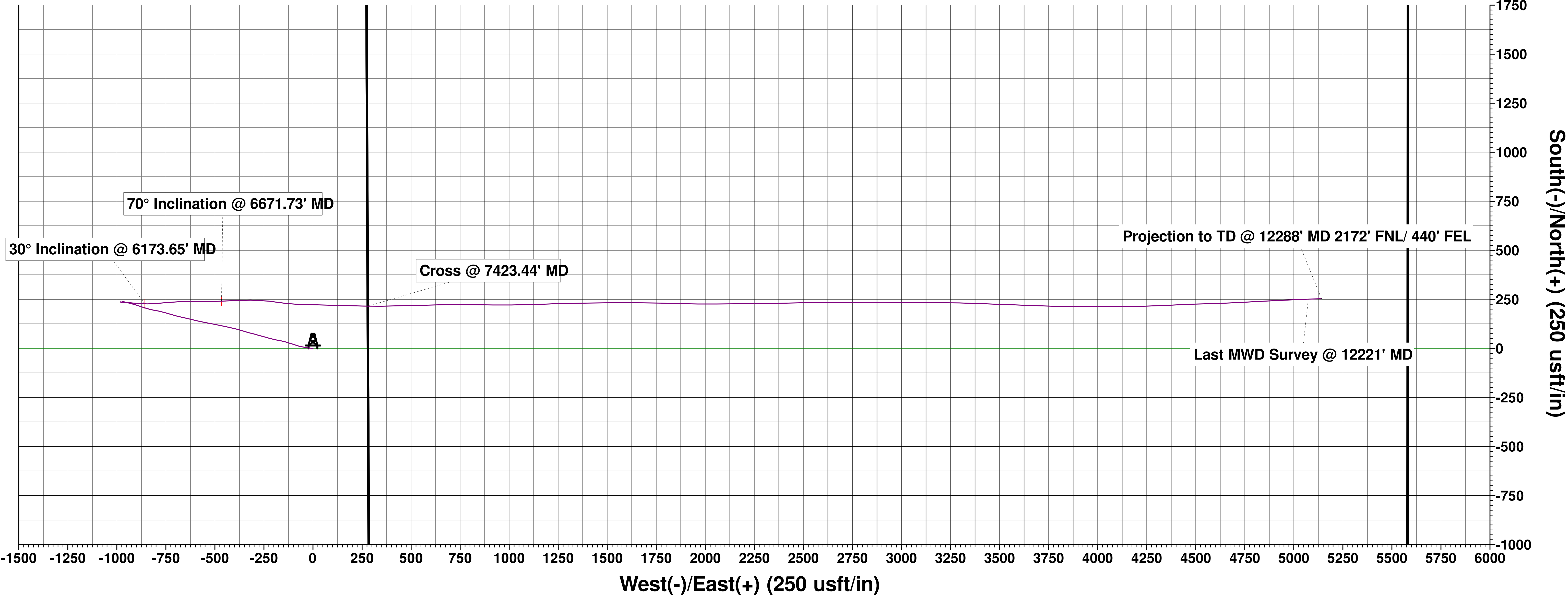
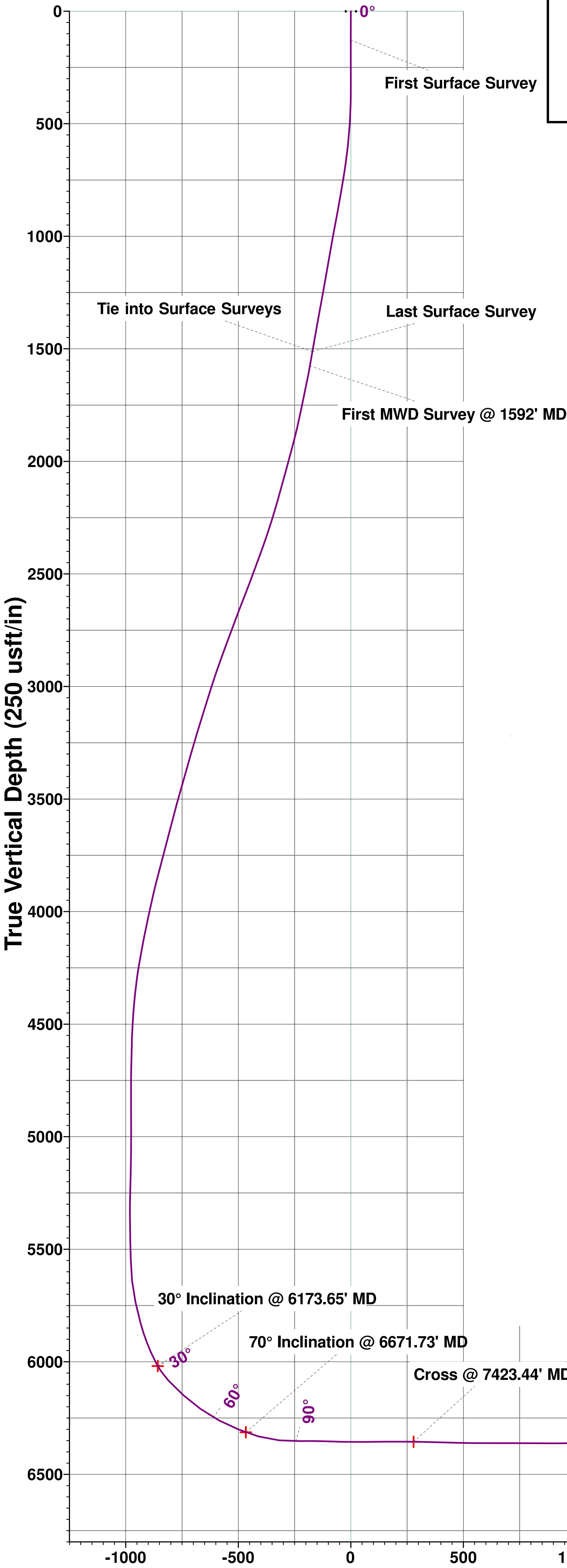


Northing	Easting	Latitude	Longitude
1374466.07	3292219.28	40.356568	-104.451425

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
128.80	0.22	339.08	128.80	0.23	-0.09	-0.09	0.25	First Surface Survey
1526.80	10.02	280.02	1511.84	40.45	-170.52	-170.52	176.94	Last Surface Survey
1526.80	10.02	280.02	1511.84	40.45	-170.52	-170.52	176.94	Tie into Surface Surveys
1592.00	10.10	279.37	1576.04	42.37	-181.74	-181.75	188.33	First MWD Survey @ 1592' MD
6173.65	29.99	92.30	6019.09	227.16	-857.31	-857.35	1142.56	30° Inclination @ 6173.65' MD
6671.73	70.00	88.01	6313.23	240.86	-466.41	-466.45	1534.00	70° Inclination @ 6671.73' MD
7423.44	88.98	90.73	6355.44	215.28	279.00	278.96	2280.39	Cross @ 7423.44' MD
12221.00	88.51	87.81	6370.39	250.87	5074.17	5074.13	7077.11	Last MWD Survey @ 12221' MD
12288.00	88.51	87.81	6372.14	253.43	5141.10	5141.05	7144.09	Projection to TD @ 12288' MD 2172' FNL/ 440' FEL



Vertical Section at 90.01° (250 usft/in)

Mazimuths to True North
Magnetic North: 7.77°

Magnetic Field
Strength: 52109.8nT
Dip Angle: 66.80°
Date: 1/15/2020
Model: IGRF2015

HighPoint Resources

Weld County, CO (NAD83)

Sec 32-T05-R63W Siebring Pad

Siebring 63-32-2525BN

Wellbore #1

Design: Wellbore #1

Standard Survey Report

16 March, 2020

Survey Report

Company:	HighPoint Resources	Local Co-ordinate Reference:	Well Siebring 63-32-2525BN
Project:	Weld County, CO (NAD83)	TVD Reference:	KB @ 4584.80usft (Cade 23)
Site:	Sec 32-T05-R63W Siebring Pad	MD Reference:	KB @ 4584.80usft (Cade 23)
Well:	Siebring 63-32-2525BN	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.15 Single User Db

Project	Weld County, CO (NAD83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	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 63-32-2525BN				
Well Position	+N/-S	0.00 usft	Northing:	1,374,466.07 usft	Latitude:	40.356568
	+E/-W	0.00 usft	Easting:	3,292,219.29 usft	Longitude:	-104.451425
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	4,568.30 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	1/15/2020	7.77	66.80	52,109.82550301

Design	Wellbore #1				
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	90.01	

Survey Program	Date	3/16/2020			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
128.80	1,526.80	Surface Surveys (Wellbore #1)	MWD	MWD - Standard	
1,592.00	12,288.00	MagVar Corrected Surveys (Wellbore #1)	MWD+HRGM	OWSG MWD + HRGM	

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)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
128.80	0.22	339.08	128.80	0.23	-0.09	-0.09	0.17	0.17	0.00	
First Surface Survey										
216.80	0.13	97.82	216.80	0.38	-0.05	-0.05	0.35	-0.10	134.93	
303.80	0.18	97.82	303.80	0.34	0.18	0.18	0.06	0.06	0.00	
390.80	0.97	284.85	390.80	0.51	-0.39	-0.39	1.32	0.91	-198.82	
478.80	3.25	270.97	478.73	0.75	-3.61	-3.61	2.64	2.59	-15.77	
565.80	5.27	275.45	565.49	1.17	-10.05	-10.05	2.35	2.32	5.15	
652.80	7.38	276.85	651.95	2.21	-19.58	-19.58	2.43	2.43	1.61	
739.80	9.40	279.54	738.02	4.06	-32.13	-32.13	2.36	2.32	3.09	

Survey Report

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Site:	Sec 32-T05-R63W Siebring Pad	MD Reference:	KB @ 4584.80usft (Cade 23)
Well:	Siebring 63-32-2525BN	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	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)
827.80	10.15	280.37	824.74	6.64	-46.85	-46.85	0.87	0.85	0.94
914.80	10.90	281.25	910.27	9.63	-62.46	-62.46	0.88	0.86	1.01
1,001.80	10.85	286.61	995.71	13.57	-78.37	-78.37	1.16	-0.06	6.16
1,088.80	10.59	289.86	1,081.20	18.63	-93.74	-93.74	0.76	-0.30	3.74
1,176.80	10.19	286.87	1,167.75	23.64	-108.79	-108.80	0.76	-0.45	-3.40
1,263.80	11.16	287.40	1,253.25	28.39	-124.19	-124.20	1.12	1.11	0.61
1,350.80	10.41	286.52	1,338.71	33.14	-139.76	-139.77	0.88	-0.86	-1.01
1,437.80	10.50	283.45	1,424.27	37.22	-155.01	-155.01	0.65	0.10	-3.53
1,526.80	10.02	280.02	1,511.84	40.45	-170.52	-170.52	0.87	-0.54	-3.85
Last Surface Survey - Tie into Surface Surveys									
1,592.00	10.10	279.37	1,576.04	42.37	-181.74	-181.75	0.21	0.12	-1.00
First MWD Survey @ 1592' MD									
1,686.00	12.44	283.49	1,668.22	46.08	-199.72	-199.73	2.63	2.49	4.38
1,781.00	11.87	284.52	1,761.09	50.91	-219.13	-219.14	0.64	-0.60	1.08
1,875.00	13.64	285.35	1,852.77	56.27	-239.18	-239.19	1.89	1.88	0.88
1,970.00	15.61	284.89	1,944.69	62.52	-262.34	-262.35	2.08	2.07	-0.48
2,065.00	15.67	286.90	2,036.17	69.54	-286.97	-286.98	0.57	0.06	2.12
2,160.00	16.03	283.20	2,127.56	76.26	-312.01	-312.03	1.13	0.38	-3.89
2,255.00	17.04	286.51	2,218.63	83.21	-338.13	-338.14	1.45	1.06	3.48
2,350.00	19.00	287.37	2,308.97	91.78	-366.24	-366.25	2.08	2.06	0.91
2,445.00	20.71	283.78	2,398.32	100.40	-397.31	-397.33	2.21	1.80	-3.78
2,539.00	20.43	281.72	2,486.33	107.70	-429.52	-429.54	0.83	-0.30	-2.19
2,634.00	21.75	282.19	2,574.96	114.78	-462.96	-462.98	1.40	1.39	0.49
2,729.00	21.39	281.50	2,663.31	121.95	-497.14	-497.16	0.46	-0.38	-0.73
2,824.00	20.45	280.44	2,752.05	128.41	-530.44	-530.46	1.07	-0.99	-1.12
2,919.00	20.73	281.55	2,840.98	134.79	-563.24	-563.26	0.51	0.29	1.17
3,015.00	19.56	282.82	2,931.11	141.75	-595.55	-595.58	1.30	-1.22	1.32
3,111.00	17.81	283.69	3,022.04	148.79	-625.49	-625.51	1.85	-1.82	0.91
3,206.00	17.90	283.50	3,112.47	155.64	-653.80	-653.83	0.11	0.09	-0.20
3,301.00	17.22	282.17	3,203.04	162.01	-681.74	-681.77	0.83	-0.72	-1.40
3,397.00	16.57	286.88	3,294.90	168.98	-708.73	-708.76	1.58	-0.68	4.91
3,492.00	16.31	285.92	3,386.02	176.58	-734.52	-734.56	0.40	-0.27	-1.01
3,587.00	16.58	285.41	3,477.13	183.84	-760.42	-760.45	0.32	0.28	-0.54
3,682.00	15.15	282.03	3,568.51	190.03	-785.63	-785.66	1.79	-1.51	-3.56
3,777.00	14.53	279.59	3,660.34	194.60	-809.52	-809.56	0.93	-0.65	-2.57
3,873.00	15.15	285.25	3,753.15	199.91	-833.50	-833.54	1.64	0.65	5.90
3,968.00	15.85	287.90	3,844.69	207.16	-857.82	-857.86	1.05	0.74	2.79
4,063.00	13.35	287.65	3,936.62	214.47	-880.62	-880.66	2.63	-2.63	-0.26
4,158.00	12.55	286.75	4,029.20	220.77	-900.96	-901.00	0.87	-0.84	-0.95
4,253.00	11.40	285.58	4,122.13	226.27	-919.89	-919.93	1.24	-1.21	-1.23
4,348.00	10.33	284.41	4,215.43	230.91	-937.18	-937.22	1.15	-1.13	-1.23
4,443.00	7.66	281.55	4,309.25	234.30	-951.64	-951.68	2.85	-2.81	-3.01
4,538.00	5.44	290.15	4,403.63	237.12	-962.07	-962.11	2.55	-2.34	9.05

Survey Report

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Site:	Sec 32-T05-R63W Siebring Pad	MD Reference:	KB @ 4584.80usft (Cade 23)
Well:	Siebring 63-32-2525BN	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	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)
4,634.00	3.46	269.52	4,499.34	238.66	-969.24	-969.28	2.62	-2.06	-21.49
4,729.00	1.87	224.29	4,594.24	237.53	-973.19	-973.23	2.65	-1.67	-47.61
4,824.00	1.70	235.13	4,689.20	235.61	-975.43	-975.47	0.40	-0.18	11.41
4,918.00	0.54	149.51	4,783.18	234.43	-976.35	-976.39	1.86	-1.23	-91.09
5,014.00	0.15	119.35	4,879.18	233.98	-976.01	-976.05	0.43	-0.41	-31.42
5,109.00	0.16	14.52	4,974.18	234.05	-975.87	-975.91	0.26	0.01	-110.35
5,204.00	0.76	318.65	5,069.18	234.65	-976.25	-976.29	0.72	0.63	-58.81
5,300.00	1.40	285.29	5,165.16	235.44	-977.80	-977.84	0.91	0.67	-34.75
5,396.00	1.69	294.02	5,261.12	236.32	-980.22	-980.27	0.39	0.30	9.09
5,490.00	0.27	57.37	5,355.11	237.01	-981.30	-981.35	1.97	-1.51	131.22
5,586.00	1.74	113.10	5,451.09	236.56	-979.77	-979.81	1.67	1.53	58.05
5,681.00	1.16	97.07	5,546.06	235.87	-977.49	-977.53	0.74	-0.61	-16.87
5,776.00	6.14	96.31	5,640.84	235.20	-971.48	-971.53	5.24	5.24	-0.80
5,871.00	11.58	91.49	5,734.67	234.39	-956.89	-956.93	5.77	5.73	-5.07
5,967.00	15.57	95.03	5,827.97	233.01	-934.42	-934.46	4.24	4.16	3.69
6,015.00	18.38	95.65	5,873.88	231.70	-920.47	-920.51	5.87	5.85	1.29
6,063.00	21.48	94.42	5,919.00	230.28	-904.17	-904.21	6.52	6.46	-2.56
6,101.00	23.84	93.76	5,954.06	229.24	-889.57	-889.61	6.25	6.21	-1.74
6,158.00	27.70	93.94	6,005.38	227.57	-864.85	-864.89	6.77	6.77	0.32
6,173.65	29.99	92.30	6,019.09	227.16	-857.31	-857.35	15.47	14.62	-10.50
30° Inclination @ 6173.65' MD									
6,198.00	33.58	90.15	6,039.79	226.90	-844.49	-844.53	15.47	14.75	-8.82
6,254.00	42.52	86.52	6,083.85	228.01	-810.04	-810.08	16.45	15.96	-6.48
6,349.00	49.21	83.74	6,149.97	233.89	-742.16	-742.20	7.35	7.04	-2.93
6,444.00	53.65	87.98	6,209.20	239.16	-668.12	-668.17	5.83	4.67	4.46
6,540.00	62.47	91.26	6,259.95	239.59	-586.76	-586.80	9.63	9.19	3.42
6,635.00	67.68	88.50	6,299.98	239.82	-500.65	-500.69	6.08	5.48	-2.91
6,671.73	70.00	88.01	6,313.23	240.86	-466.41	-466.45	6.43	6.31	-1.32
70° Inclination @ 6671.73' MD									
6,730.00	73.68	87.27	6,331.39	243.14	-411.10	-411.14	6.43	6.32	-1.28
6,825.00	84.72	89.32	6,349.17	245.88	-317.97	-318.02	11.81	11.62	2.16
6,919.00	91.49	96.84	6,352.28	240.83	-224.28	-224.33	10.76	7.20	8.00
6,967.00	89.47	98.57	6,351.88	234.39	-176.72	-176.76	5.54	-4.21	3.60
7,014.00	88.66	95.92	6,352.64	228.47	-130.11	-130.15	5.90	-1.72	-5.64
7,061.00	87.86	92.36	6,354.07	225.08	-83.26	-83.30	7.76	-1.70	-7.57
7,110.00	88.70	91.72	6,355.54	223.33	-34.32	-34.35	2.15	1.71	-1.31
7,205.00	90.69	91.03	6,356.05	221.05	60.65	60.61	2.22	2.09	-0.73
7,301.00	90.79	91.93	6,354.81	218.57	156.61	156.57	0.94	0.10	0.94
7,395.00	89.04	91.43	6,354.95	215.82	250.57	250.53	1.94	-1.86	-0.53
7,423.44	88.98	90.73	6,355.44	215.28	279.00	278.96	2.47	-0.21	-2.46
Cross @ 7423.44' MD									
7,490.00	88.84	89.09	6,356.71	215.39	345.54	345.50	2.47	-0.21	-2.46
7,585.00	88.23	88.75	6,359.14	217.18	440.49	440.45	0.74	-0.64	-0.36
7,680.00	89.46	88.65	6,361.05	219.33	535.45	535.41	1.30	1.29	-0.11

Survey Report

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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)	
7,776.00	89.97	88.23	6,361.53	221.95	631.41	631.37	0.69	0.53	-0.44	
7,871.00	90.13	90.20	6,361.44	223.25	726.40	726.36	2.08	0.17	2.07	
7,966.00	89.45	90.28	6,361.79	222.85	821.39	821.36	0.72	-0.72	0.08	
8,062.00	89.78	91.12	6,362.44	221.68	917.38	917.35	0.94	0.34	0.88	
8,157.00	91.92	88.87	6,361.03	221.68	1,012.36	1,012.32	3.27	2.25	-2.37	
8,252.00	91.22	88.92	6,358.43	223.52	1,107.31	1,107.27	0.74	-0.74	0.05	
8,347.00	90.59	87.45	6,356.93	226.52	1,202.25	1,202.21	1.68	-0.66	-1.55	
8,442.00	89.59	89.16	6,356.78	229.33	1,297.20	1,297.16	2.09	-1.05	1.80	
8,537.00	88.95	88.83	6,357.99	231.00	1,392.18	1,392.14	0.76	-0.67	-0.35	
8,631.00	91.39	89.41	6,357.71	232.44	1,486.16	1,486.12	2.67	2.60	0.62	
8,727.00	91.98	90.51	6,354.88	232.51	1,582.11	1,582.07	1.30	0.61	1.15	
8,823.00	91.75	89.61	6,351.76	232.41	1,678.06	1,678.02	0.97	-0.24	-0.94	
8,918.00	91.62	91.98	6,348.97	231.09	1,773.00	1,772.96	2.50	-0.14	2.49	
9,011.00	91.92	91.67	6,346.09	228.13	1,865.91	1,865.87	0.46	0.32	-0.33	
9,107.00	91.55	90.30	6,343.19	226.48	1,961.85	1,961.81	1.48	-0.39	-1.43	
9,203.00	90.52	89.69	6,341.45	226.49	2,057.83	2,057.80	1.25	-1.07	-0.64	
9,298.00	88.74	89.44	6,342.07	227.21	2,152.83	2,152.79	1.89	-1.87	-0.26	
9,393.00	88.66	89.62	6,344.22	227.99	2,247.80	2,247.76	0.21	-0.08	0.19	
9,489.00	88.48	88.69	6,346.62	229.41	2,343.76	2,343.72	0.99	-0.19	-0.97	
9,583.00	89.34	88.62	6,348.41	231.61	2,437.71	2,437.67	0.92	0.91	-0.07	
9,679.00	88.71	88.97	6,350.04	233.63	2,533.68	2,533.64	0.75	-0.66	0.36	
9,774.00	90.43	89.94	6,350.75	234.53	2,628.67	2,628.62	2.08	1.81	1.02	
9,869.00	90.05	90.05	6,350.35	234.54	2,723.66	2,723.62	0.42	-0.40	0.12	
9,964.00	89.38	89.17	6,350.83	235.19	2,818.66	2,818.62	1.16	-0.71	-0.93	
10,059.00	91.14	90.53	6,350.40	235.44	2,913.65	2,913.61	2.34	1.85	1.43	
10,154.00	90.75	90.70	6,348.83	234.42	3,008.63	3,008.59	0.45	-0.41	0.18	
10,249.00	90.62	90.60	6,347.69	233.34	3,103.62	3,103.58	0.17	-0.14	-0.11	
10,345.00	90.88	89.92	6,346.44	232.91	3,199.61	3,199.57	0.76	0.27	-0.71	
10,440.00	90.08	91.27	6,345.64	231.92	3,294.60	3,294.56	1.65	-0.84	1.42	
10,535.00	90.83	92.36	6,344.89	228.91	3,389.55	3,389.51	1.39	0.79	1.15	
10,630.00	89.11	92.26	6,344.94	225.08	3,484.47	3,484.43	1.81	-1.81	-0.11	
10,726.00	88.65	91.65	6,346.81	221.81	3,580.39	3,580.35	0.80	-0.48	-0.64	
10,822.00	88.42	92.84	6,349.27	218.05	3,676.28	3,676.25	1.26	-0.24	1.24	
10,917.00	88.85	90.29	6,351.53	215.45	3,771.21	3,771.18	2.72	0.45	-2.68	
11,012.00	88.26	90.62	6,353.93	214.70	3,866.18	3,866.14	0.71	-0.62	0.35	
11,107.00	89.42	89.97	6,355.85	214.21	3,961.16	3,961.12	1.40	1.22	-0.68	
11,203.00	89.93	90.91	6,356.39	213.47	4,057.15	4,057.11	1.11	0.53	0.98	
11,298.00	89.97	89.20	6,356.48	213.38	4,152.15	4,152.11	1.80	0.04	-1.80	
11,393.00	89.99	88.15	6,356.51	215.58	4,247.12	4,247.08	1.11	0.02	-1.11	
11,488.00	89.80	87.70	6,356.68	219.02	4,342.06	4,342.02	0.51	-0.20	-0.47	
11,583.00	89.91	87.02	6,356.92	223.40	4,436.96	4,436.92	0.73	0.12	-0.72	
11,679.00	89.68	88.86	6,357.27	226.85	4,532.89	4,532.85	1.93	-0.24	1.92	
11,774.00	88.80	87.51	6,358.53	229.85	4,627.83	4,627.79	1.70	-0.93	-1.42	
11,869.00	88.74	87.22	6,360.57	234.22	4,722.71	4,722.67	0.31	-0.06	-0.31	

Survey Report

Company:	HighPoint Resources	Local Co-ordinate Reference:	Well Siebring 63-32-2525BN
Project:	Weld County, CO (NAD83)	TVD Reference:	KB @ 4584.80usft (Cade 23)
Site:	Sec 32-T05-R63W Siebring Pad	MD Reference:	KB @ 4584.80usft (Cade 23)
Well:	Siebring 63-32-2525BN	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	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)
11,965.00	88.31	86.73	6,363.04	239.28	4,818.54	4,818.50	0.68	-0.45	-0.51
12,060.00	88.03	87.39	6,366.07	244.16	4,913.37	4,913.33	0.75	-0.29	0.69
12,156.00	88.70	87.66	6,368.81	248.30	5,009.24	5,009.20	0.75	0.70	0.28
12,221.00	88.51	87.81	6,370.39	250.87	5,074.17	5,074.13	0.37	-0.29	0.23
Last MWD Survey @ 12221' MD									
12,288.00	88.51	87.81	6,372.14	253.43	5,141.10	5,141.05	0.00	0.00	0.00
Projection to TD @ 12288' MD 2172' FNL/ 440' FEL									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
30° Inclination @ 6173.6	0.00	0.00	6,019.09	227.15	-857.31	1,374,683.07	3,291,359.35	40.357192	-104.454502
- actual wellpath misses target center by 0.01usft at 6173.65usft MD (6019.09 TVD, 227.16 N, -857.31 E)									
- Point									
70° Inclination @ 6671.7	0.00	0.00	6,313.24	240.86	-466.41	1,374,701.40	3,291,750.06	40.357229	-104.453099
- actual wellpath hits target center									
- Point									
Cross @ 7423.44' MD	0.00	0.00	6,355.44	215.28	279.00	1,374,684.64	3,292,495.72	40.357159	-104.450424
- actual wellpath hits target center									
- Point									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
128.80	128.80	0.23	-0.09	First Surface Survey
1,526.80	1,511.84	40.45	-170.52	Last Surface Survey
1,526.80	1,511.84	40.45	-170.52	Tie into Surface Surveys
1,592.00	1,576.04	42.37	-181.74	First MWD Survey @ 1592' MD
6,173.65	6,019.09	227.16	-857.31	30° Inclination @ 6173.65' MD
6,671.73	6,313.23	240.86	-466.41	70° Inclination @ 6671.73' MD
7,423.44	6,355.44	215.28	279.00	Cross @ 7423.44' MD
12,221.00	6,370.39	250.87	5,074.17	Last MWD Survey @ 12221' MD
12,288.00	6,372.14	253.43	5,141.10	Projection to TD @ 12288' MD 2172' FNL/ 440' FEL

Checked By: _____	Approved By: _____	Date: _____
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