



Project: Weld County, CO NAD 83
 Site: Anschutz Equus Farms 4-62-28_27 SWSW Pad [GOOD]
 Well: Anschutz Equus Farms 4-62-28-6457CB
 Wellbore: OH
 Design: OH



WELL DETAILS: Anschutz Equus Farms 4-62-28-6457CB

GL 4634.9' & KB 20' @ 4654.90ft (Savanna 802)				4634.90
Northing	Easting	Latitude	Longitude	
1345635.23	3324551.08	40° 16' 34.769 N	104° 20' 12.401 W	

Design: OH (Anschutz Equus Farms 4-62-28-6457CB/OH)

Created By: Seth Burstad

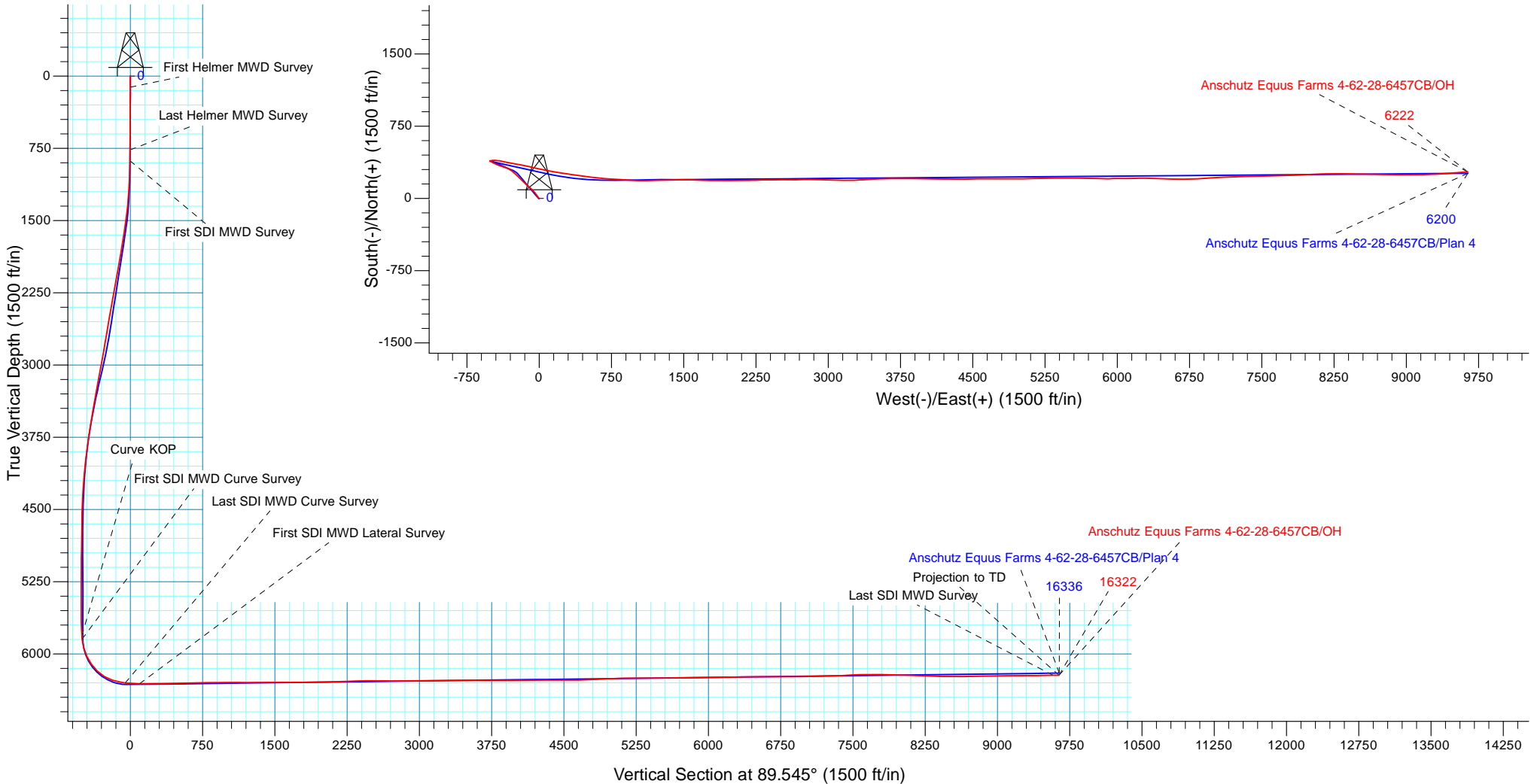
PROJECT DETAILS: Weld County, CO NAD 83

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

ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	VSect	Departure	Annotation
116.00	116.00	0.10	296.500	0.05	-0.09	-0.09	0.10	First Helmer MWD Survey
766.99	767.00	0.40	247.400	1.35	-3.36	-3.35	4.21	Last Helmer MWD Survey
878.98	879.00	0.62	245.890	0.95	-4.27	-4.26	5.20	First SDI MWD Survey
5811.92	5876.00	5.13	85.343	392.30	-507.05	-503.92	671.36	Curve KOP
5846.71	5911.00	7.40	85.850	392.59	-503.24	-500.10	674.02	First SDI MWD Curve Survey
6301.54	6614.00	83.41	102.490	318.29	-55.70	-53.17	1129.67	Last SDI MWD Curve Survey
6310.04	6765.00	90.13	100.730	287.98	91.89	94.17	1280.34	First SDI MWD Lateral Survey
6222.85	16260.00	90.64	84.830	271.54	9574.86	9576.71	10773.51	Last SDI MWD Survey
6222.16	16322.00	90.64	84.830	277.13	9636.60	9638.50	10835.51	Projection to TD





HighPoint Resources

Weld County, CO NAD 83

Anschutz Equus Farms 4-62-28_27 SWSW Pad [GOOD]

Anschutz Equus Farms 4-62-28-6457CB

OH

Design: OH

Standard Survey Report

02 April, 2018





Company:	HighPoint Resources	Local Co-ordinate Reference:	Well Anschutz Equus Farms 4-62-28-6457CB
Project:	Weld County, CO NAD 83	TVD Reference:	GL 4634.9' & KB 20' @ 4654.90ft (Savanna 802)
Site:	Anschutz Equus Farms 4-62-28_27 SWSW Pad [GOOD]	MD Reference:	GL 4634.9' & KB 20' @ 4654.90ft (Savanna 802)
Well:	Anschutz Equus Farms 4-62-28-6457CB	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Casper District

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	Anschutz Equus Farms 4-62-28_27 SWSW Pad [GOOD]				
Site Position:		Northing:	1,345,937.77 usft	Latitude:	40° 16' 37.790 N
From:	Lat/Long	Easting:	3,324,312.31 usft	Longitude:	104° 20' 15.430 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.75 °

Well	Anschutz Equus Farms 4-62-28-6457CB, 242' FSL 486' FWL Sec 28 T4N R62W					
Well Position	+N/-S	0.00 ft	Northing:	1,345,635.22 usft	Latitude:	40° 16' 34.769 N
	+E/-W	0.00 ft	Easting:	3,324,551.08 usft	Longitude:	104° 20' 12.401 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	0.00 ft	Ground Level:	4,634.90 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	5/3/2017	8.30	66.92	52,385
	HDGM	7/19/2017	8.27	66.93	52,361

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	89.545	

Survey Program	Date	4/2/2018			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
116.00	767.00	Survey #1 - Surface (OH)	OWSG MWD	OWSG MWD - Standard	
879.00	6,614.00	Survey #2 - Intermediate (OH)	OWSG MWD	OWSG MWD - Standard	
6,765.00	16,322.00	Survey #3 - Lateral (OH)	OWSG MWD	OWSG MWD - Standard	

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	0.00
116.00	0.10	296.500	116.00	0.05	-0.09	-0.09	0.09	0.09	0.09	0.00
First Helmer MWD Survey										
211.00	0.30	310.300	211.00	0.24	-0.35	-0.35	0.22	0.21	0.21	14.53
306.00	0.20	322.300	306.00	0.54	-0.65	-0.64	0.12	-0.11	-0.11	12.63
401.00	0.30	333.800	401.00	0.89	-0.86	-0.85	0.12	0.11	0.11	12.11
496.00	0.20	253.800	496.00	1.07	-1.13	-1.12	0.35	-0.11	-0.11	-84.21

Company:	HighPoint Resources	Local Co-ordinate Reference:	Well Anschutz Equus Farms 4-62-28-6457CB
Project:	Weld County, CO NAD 83	TVD Reference:	GL 4634.9' & KB 20' @ 4654.90ft (Savanna 802)
Site:	Anschutz Equus Farms 4-62-28_27 SWSW Pad [GOOD]	MD Reference:	GL 4634.9' & KB 20' @ 4654.90ft (Savanna 802)
Well:	Anschutz Equus Farms 4-62-28-6457CB	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Casper District

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)	
592.00	0.70	260.300	591.99	0.92	-1.86	-1.86	0.52	0.52	6.77	
687.00	0.60	313.800	686.99	1.17	-2.80	-2.79	0.62	-0.11	56.32	
767.00	0.40	247.400	766.99	1.35	-3.36	-3.35	0.72	-0.25	-83.00	
Last Helmer MWD Survey										
879.00	0.62	245.890	878.98	0.95	-4.27	-4.26	0.20	0.20	-1.35	
First SDI MWD Survey										
971.00	3.01	328.160	970.94	2.80	-6.00	-5.98	3.25	2.60	89.42	
1,062.00	4.69	330.980	1,061.73	8.08	-9.06	-9.00	1.86	1.85	3.10	
1,153.00	6.48	327.330	1,152.29	15.66	-13.64	-13.52	2.00	1.97	-4.01	
1,245.00	7.59	324.640	1,243.60	24.99	-19.96	-19.76	1.26	1.21	-2.92	
1,337.00	9.24	324.670	1,334.60	35.97	-27.75	-27.46	1.79	1.79	0.03	
1,428.00	12.12	322.960	1,424.02	49.56	-37.73	-37.33	3.18	3.16	-1.88	
1,519.00	12.19	318.660	1,512.98	64.40	-49.83	-49.32	1.00	0.08	-4.73	
1,610.00	11.85	318.130	1,601.99	78.57	-62.41	-61.79	0.39	-0.37	-0.58	
1,701.00	12.25	314.880	1,690.98	92.34	-75.49	-74.75	0.87	0.44	-3.57	
1,793.00	12.44	312.810	1,780.85	105.96	-89.68	-88.83	0.52	0.21	-2.25	
1,884.00	12.19	311.410	1,869.76	118.97	-104.07	-103.12	0.43	-0.27	-1.54	
1,975.00	13.65	310.490	1,958.45	132.30	-119.44	-118.39	1.62	1.60	-1.01	
2,067.00	13.97	312.410	2,047.80	146.84	-135.90	-134.73	0.61	0.35	2.09	
2,158.00	13.83	311.740	2,136.13	161.49	-152.13	-150.84	0.23	-0.15	-0.74	
2,249.00	14.60	312.980	2,224.34	176.55	-168.63	-167.22	0.91	0.85	1.36	
2,340.00	14.40	314.010	2,312.45	192.23	-185.16	-183.63	0.36	-0.22	1.13	
2,433.00	14.30	316.620	2,402.54	208.61	-201.37	-199.70	0.70	-0.11	2.81	
2,528.00	13.66	316.100	2,494.73	225.22	-217.20	-215.41	0.69	-0.67	-0.55	
2,621.00	13.38	313.710	2,585.15	240.57	-232.60	-230.68	0.67	-0.30	-2.57	
2,716.00	13.27	312.920	2,677.60	255.59	-248.53	-246.49	0.22	-0.12	-0.83	
2,810.00	12.54	311.440	2,769.22	269.69	-264.08	-261.93	0.85	-0.78	-1.57	
2,904.00	12.64	308.300	2,860.96	282.82	-279.80	-277.54	0.74	0.11	-3.34	
2,998.00	12.38	301.610	2,952.74	294.48	-296.45	-294.10	1.57	-0.28	-7.12	
3,092.00	12.32	296.690	3,044.56	304.26	-313.99	-311.57	1.12	-0.06	-5.23	
3,186.00	11.99	294.550	3,136.46	312.82	-331.84	-329.34	0.59	-0.35	-2.28	
3,281.00	10.92	292.450	3,229.56	320.36	-349.13	-346.57	1.21	-1.13	-2.21	
3,374.00	10.00	287.950	3,321.02	326.21	-364.95	-362.35	1.32	-0.99	-4.84	
3,468.00	9.44	287.040	3,413.67	330.99	-380.09	-377.45	0.62	-0.60	-0.97	
3,562.00	10.06	287.580	3,506.31	335.73	-395.28	-392.60	0.67	0.66	0.57	
3,656.00	9.53	284.840	3,598.94	340.20	-410.63	-407.92	0.75	-0.56	-2.91	
3,750.00	9.73	291.580	3,691.62	345.11	-425.54	-422.79	1.22	0.21	7.17	
3,844.00	9.36	296.620	3,784.32	351.46	-439.76	-436.96	0.97	-0.39	5.36	
3,939.00	8.93	294.410	3,878.11	357.97	-453.38	-450.52	0.58	-0.45	-2.33	
4,033.00	6.80	293.280	3,971.22	363.18	-465.14	-462.24	2.27	-2.27	-1.20	
4,126.00	6.41	296.910	4,063.60	367.71	-474.83	-471.89	0.61	-0.42	3.90	
4,221.00	5.75	298.950	4,158.07	372.41	-483.72	-480.75	0.73	-0.69	2.15	
4,315.00	4.46	306.310	4,251.70	376.86	-490.78	-487.78	1.54	-1.37	7.83	

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Well:	Anschutz Equus Farms 4-62-28-6457CB	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Casper District

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)
4,409.00	4.29	303.340	4,345.42	380.95	-496.67	-493.63	0.30	-0.18	-3.16
4,503.00	3.35	315.220	4,439.21	384.84	-501.54	-498.47	1.30	-1.00	12.64
4,597.00	1.09	253.940	4,533.15	386.54	-504.33	-501.25	3.17	-2.40	-65.19
4,691.00	0.97	236.870	4,627.13	385.86	-505.86	-502.78	0.35	-0.13	-18.16
4,785.00	0.72	237.380	4,721.12	385.10	-507.02	-503.95	0.27	-0.27	0.54
4,878.00	1.01	283.580	4,814.11	384.98	-508.31	-505.24	0.78	0.31	49.68
4,972.00	0.95	294.430	4,908.10	385.50	-509.83	-506.75	0.21	-0.06	11.54
5,066.00	0.74	279.130	5,002.09	385.92	-511.13	-508.05	0.33	-0.22	-16.28
5,160.00	0.26	354.560	5,096.08	386.22	-511.75	-508.67	0.77	-0.51	80.24
5,254.00	0.41	348.680	5,190.08	386.77	-511.84	-508.75	0.16	0.16	-6.26
5,348.00	0.63	335.140	5,284.08	387.57	-512.12	-509.03	0.27	0.23	-14.40
5,443.00	0.60	349.740	5,379.07	388.53	-512.43	-509.33	0.17	-0.03	15.37
5,536.00	0.73	340.480	5,472.07	389.57	-512.72	-509.61	0.18	0.14	-9.96
5,630.00	0.36	316.770	5,566.06	390.35	-513.12	-510.00	0.45	-0.39	-25.22
5,723.00	1.40	57.050	5,659.05	391.18	-512.37	-509.24	1.62	1.12	107.83
5,817.00	1.31	80.520	5,753.03	391.98	-510.34	-507.21	0.59	-0.10	24.97
5,876.00	5.13	85.343	5,811.92	392.30	-507.05	-503.92	6.49	6.48	8.17
Curve KOP									
5,911.00	7.40	85.850	5,846.71	392.59	-503.24	-500.10	6.49	6.48	1.45
First SDI MWD Curve Survey									
6,006.00	13.99	82.180	5,940.01	394.60	-485.74	-482.59	6.97	6.94	-3.86
6,099.00	25.77	92.330	6,027.34	395.31	-454.28	-451.13	13.15	12.67	10.91
6,193.00	35.60	99.080	6,108.10	390.15	-406.72	-403.61	11.07	10.46	7.18
6,287.00	47.12	103.910	6,178.56	377.51	-346.05	-343.04	12.71	12.26	5.14
6,381.00	58.89	98.840	6,235.04	362.99	-272.57	-269.68	13.23	12.52	-5.39
6,475.00	73.38	99.840	6,272.97	349.03	-187.98	-185.20	15.45	15.41	1.06
6,569.00	79.64	105.410	6,294.91	329.01	-98.88	-96.26	8.80	6.66	5.93
6,614.00	83.41	102.490	6,301.54	318.29	-55.70	-53.17	10.55	8.38	-6.49
Last SDI MWD Curve Survey									
6,765.00	90.13	100.730	6,310.04	287.98	91.89	94.17	4.60	4.45	-1.17
First SDI MWD Lateral Survey									
6,858.00	91.54	99.260	6,308.69	271.84	183.46	185.62	2.19	1.52	-1.58
6,953.00	90.10	99.150	6,307.33	256.64	277.23	279.26	1.52	-1.52	-0.12
7,047.00	90.27	97.520	6,307.03	243.02	370.23	372.15	1.74	0.18	-1.73
7,141.00	90.87	97.250	6,306.09	230.94	463.45	465.27	0.70	0.64	-0.29
7,235.00	92.02	97.890	6,303.72	218.56	556.60	558.31	1.40	1.22	0.68
7,329.00	91.24	94.510	6,301.05	208.41	649.99	651.63	3.69	-0.83	-3.60
7,423.00	90.30	93.510	6,299.78	201.84	743.75	745.33	1.46	-1.00	-1.06
7,517.00	90.94	92.650	6,298.76	196.79	837.61	839.15	1.14	0.68	-0.91
7,611.00	90.91	94.660	6,297.25	190.80	931.40	932.89	2.14	-0.03	2.14
7,705.00	89.50	91.670	6,296.91	185.61	1,025.25	1,026.69	3.52	-1.50	-3.18
7,798.00	89.63	88.780	6,297.62	185.24	1,118.23	1,119.67	3.11	0.14	-3.11
7,892.00	89.50	88.520	6,298.33	187.46	1,212.20	1,213.65	0.31	-0.14	-0.28

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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Casper District

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)
7,986.00	90.17	87.950	6,298.60	190.35	1,306.16	1,307.63	0.94	0.71	-0.61
8,080.00	91.01	89.730	6,297.63	192.26	1,400.13	1,401.61	2.09	0.89	1.89
8,174.00	91.74	89.340	6,295.38	193.02	1,494.10	1,495.58	0.88	0.78	-0.41
8,268.00	89.26	91.800	6,294.56	192.08	1,588.08	1,589.55	3.72	-2.64	2.62
8,361.00	89.87	91.550	6,295.26	189.36	1,681.03	1,682.48	0.71	0.66	-0.27
8,455.00	89.93	91.790	6,295.43	186.63	1,774.99	1,776.42	0.26	0.06	0.26
8,549.00	91.88	89.370	6,293.94	185.67	1,868.96	1,870.38	3.31	2.07	-2.57
8,643.00	90.13	89.490	6,292.29	186.61	1,962.94	1,964.36	1.87	-1.86	0.13
8,737.00	91.58	90.520	6,290.89	186.60	2,056.93	2,058.34	1.89	1.54	1.10
8,831.00	91.34	88.990	6,288.50	187.00	2,150.89	2,152.31	1.65	-0.26	-1.63
8,925.00	92.39	87.250	6,285.44	190.08	2,244.79	2,246.23	2.16	1.12	-1.85
9,019.00	91.95	89.820	6,281.88	192.48	2,338.68	2,340.14	2.77	-0.47	2.73
9,113.00	91.11	89.970	6,279.37	192.66	2,432.65	2,434.10	0.91	-0.89	0.16
9,207.00	88.89	89.370	6,279.37	193.20	2,526.64	2,528.09	2.45	-2.36	-0.64
9,300.00	89.93	90.340	6,280.32	193.43	2,619.63	2,621.09	1.53	1.12	1.04
9,394.00	89.33	87.660	6,280.93	195.07	2,713.61	2,715.07	2.92	-0.64	-2.85
9,488.00	91.31	89.520	6,280.41	197.39	2,807.57	2,809.05	2.89	2.11	1.98
9,581.00	90.00	92.440	6,279.34	195.80	2,900.54	2,902.00	3.44	-1.41	3.14
9,674.00	90.54	92.450	6,278.91	191.83	2,993.45	2,994.88	0.58	0.58	0.01
9,768.00	90.37	90.670	6,278.16	189.27	3,087.41	3,088.81	1.90	-0.18	-1.89
9,862.00	90.30	89.990	6,277.61	188.73	3,181.40	3,182.80	0.73	-0.07	-0.72
9,955.00	90.47	88.290	6,276.98	190.12	3,274.39	3,275.80	1.84	0.18	-1.83
10,049.00	90.40	86.750	6,276.27	194.19	3,368.29	3,369.73	1.64	-0.07	-1.64
10,142.00	90.54	86.870	6,275.51	199.37	3,461.15	3,462.62	0.20	0.15	0.13
10,237.00	90.94	88.460	6,274.28	203.24	3,556.06	3,557.56	1.73	0.42	1.67
10,331.00	89.09	87.790	6,274.26	206.31	3,650.00	3,651.53	2.09	-1.97	-0.71
10,422.00	88.83	90.180	6,275.91	207.92	3,740.97	3,742.50	2.64	-0.29	2.63
10,513.00	89.73	90.720	6,277.05	207.21	3,831.96	3,833.48	1.15	0.99	0.59
10,604.00	91.68	91.490	6,275.93	205.45	3,922.93	3,924.43	2.30	2.14	0.85
10,695.00	90.44	91.340	6,274.25	203.21	4,013.88	4,015.37	1.37	-1.36	-0.16
10,786.00	90.44	91.160	6,273.55	201.22	4,104.86	4,106.33	0.20	0.00	-0.20
10,877.00	90.13	89.840	6,273.10	200.43	4,195.85	4,197.31	1.49	-0.34	-1.45
10,968.00	90.23	89.830	6,272.81	200.69	4,286.85	4,288.31	0.11	0.11	-0.01
11,059.00	90.34	89.390	6,272.36	201.31	4,377.85	4,379.31	0.50	0.12	-0.48
11,150.00	90.13	88.600	6,271.99	202.91	4,468.83	4,470.30	0.90	-0.23	-0.87
11,241.00	90.47	89.970	6,271.51	204.04	4,559.82	4,561.30	1.55	0.37	1.51
11,333.00	89.73	89.430	6,271.35	204.52	4,651.82	4,653.29	1.00	-0.80	-0.59
11,424.00	92.72	90.370	6,269.40	204.68	4,742.79	4,744.26	3.44	3.29	1.03
11,516.00	93.39	90.090	6,264.50	204.31	4,834.65	4,836.12	0.79	0.73	-0.30
11,607.00	91.98	90.100	6,260.24	204.16	4,925.55	4,927.02	1.55	-1.55	0.01
11,698.00	92.42	88.760	6,256.74	205.07	5,016.48	5,017.95	1.55	0.48	-1.47
11,789.00	90.70	89.320	6,254.27	206.59	5,107.43	5,108.91	1.99	-1.89	0.62
11,881.00	90.67	89.380	6,253.17	207.63	5,199.41	5,200.90	0.07	-0.03	0.07



Company:	HighPoint Resources	Local Co-ordinate Reference:	Well Anschutz Equus Farms 4-62-28-6457CB
Project:	Weld County, CO NAD 83	TVD Reference:	GL 4634.9' & KB 20' @ 4654.90ft (Savanna 802)
Site:	Anschutz Equus Farms 4-62-28_27 SWSW Pad [GOOD]	MD Reference:	GL 4634.9' & KB 20' @ 4654.90ft (Savanna 802)
Well:	Anschutz Equus Farms 4-62-28-6457CB	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Casper District

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)
11,972.00	90.10	87.830	6,252.55	209.85	5,290.38	5,291.88	1.81	-0.63	-1.70
12,063.00	90.54	88.900	6,252.05	212.45	5,381.34	5,382.86	1.27	0.48	1.18
12,154.00	90.74	90.130	6,251.03	213.22	5,472.33	5,473.85	1.37	0.22	1.35
12,246.00	90.50	91.120	6,250.03	212.21	5,564.32	5,565.83	1.11	-0.26	1.08
12,337.00	90.23	91.680	6,249.45	209.99	5,655.29	5,656.78	0.68	-0.30	0.62
12,428.00	90.60	92.400	6,248.80	206.75	5,746.23	5,747.69	0.89	0.41	0.79
12,519.00	90.67	90.690	6,247.79	204.30	5,837.19	5,838.63	1.88	0.08	-1.88
12,610.00	90.44	87.280	6,246.91	205.91	5,928.15	5,929.60	3.76	-0.25	-3.75
12,701.00	90.87	90.150	6,245.86	207.95	6,019.12	6,020.58	3.19	0.47	3.15
12,793.00	91.07	90.510	6,244.31	207.42	6,111.10	6,112.56	0.45	0.22	0.39
12,883.00	90.64	87.340	6,242.96	209.11	6,201.06	6,202.53	3.55	-0.48	-3.52
12,975.00	90.90	91.680	6,241.73	209.89	6,293.03	6,294.50	4.73	0.28	4.72
13,066.00	90.81	90.750	6,240.37	207.97	6,384.00	6,385.45	1.03	-0.10	-1.02
13,157.00	91.11	92.920	6,238.84	205.05	6,474.93	6,476.36	2.41	0.33	2.38
13,248.00	90.81	92.460	6,237.32	200.78	6,565.82	6,567.21	0.60	-0.33	-0.51
13,340.00	90.24	89.520	6,236.48	199.19	6,657.79	6,659.16	3.26	-0.62	-3.20
13,431.00	89.26	88.030	6,236.87	201.14	6,748.77	6,750.15	1.96	-1.08	-1.64
13,523.00	89.87	87.010	6,237.57	205.12	6,840.68	6,842.09	1.29	0.66	-1.11
13,614.00	90.91	85.540	6,236.95	211.03	6,931.48	6,932.94	1.98	1.14	-1.62
13,705.00	91.11	87.630	6,235.35	216.45	7,022.30	7,023.79	2.31	0.22	2.30
13,796.00	91.27	87.350	6,233.46	220.43	7,113.19	7,114.72	0.35	0.18	-0.31
13,888.00	91.44	87.150	6,231.28	224.85	7,205.06	7,206.62	0.29	0.18	-0.22
13,979.00	91.81	88.330	6,228.70	228.43	7,295.95	7,297.53	1.36	0.41	1.30
14,070.00	93.02	89.160	6,224.87	230.43	7,386.84	7,388.44	1.61	1.33	0.91
14,161.00	93.48	89.640	6,219.71	231.38	7,477.69	7,479.29	0.73	0.51	0.53
14,252.00	90.77	88.460	6,216.33	232.89	7,568.61	7,570.22	3.25	-2.98	-1.30
14,343.00	90.80	88.240	6,215.09	235.51	7,659.56	7,661.19	0.24	0.03	-0.24
14,435.00	88.96	87.650	6,215.28	238.80	7,751.50	7,753.15	2.10	-2.00	-0.64
14,526.00	88.96	87.300	6,216.93	242.81	7,842.39	7,844.07	0.38	0.00	-0.38
14,617.00	88.93	87.280	6,218.61	247.11	7,933.28	7,934.99	0.04	-0.03	-0.02
14,708.00	89.03	87.540	6,220.23	251.23	8,024.17	8,025.91	0.31	0.11	0.29
14,799.00	88.05	88.190	6,222.55	254.62	8,115.07	8,116.84	1.29	-1.08	0.71
14,891.00	87.25	89.950	6,226.32	256.11	8,206.98	8,208.76	2.10	-0.87	1.91
14,982.00	88.43	90.380	6,229.75	255.85	8,297.91	8,299.68	1.38	1.30	0.47
15,073.00	87.89	89.950	6,232.67	255.58	8,388.87	8,390.63	0.76	-0.59	-0.47
15,163.00	89.56	91.220	6,234.67	254.66	8,478.83	8,480.59	2.33	1.86	1.41
15,255.00	89.50	91.160	6,235.43	252.75	8,570.81	8,572.55	0.09	-0.07	-0.07
15,346.00	91.07	90.900	6,234.98	251.12	8,661.79	8,663.51	1.75	1.73	-0.29
15,438.00	91.27	91.310	6,233.10	249.34	8,753.76	8,755.46	0.50	0.22	0.45
15,529.00	91.24	91.590	6,231.10	247.04	8,844.71	8,846.39	0.31	-0.03	0.31
15,621.00	91.04	90.800	6,229.27	245.12	8,936.67	8,938.33	0.89	-0.22	-0.86
15,711.00	89.97	89.660	6,228.48	244.76	9,026.66	9,028.32	1.74	-1.19	-1.27



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Site:	Anschutz Equus Farms 4-62-28_27 SWSW Pad [GOOD]	MD Reference:	GL 4634.9' & KB 20' @ 4654.90ft (Savanna 802)
Well:	Anschutz Equus Farms 4-62-28-6457CB	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Casper District

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)
15,803.00	90.33	88.190	6,228.24	246.49	9,118.64	9,120.31	1.65	0.39	-1.60
15,896.00	90.80	87.960	6,227.32	249.61	9,211.58	9,213.27	0.56	0.51	-0.25
15,990.00	90.87	87.180	6,225.95	253.60	9,305.49	9,307.21	0.83	0.07	-0.83
16,084.00	90.27	86.090	6,225.02	259.11	9,399.32	9,401.08	1.32	-0.64	-1.16
16,178.00	90.97	86.400	6,224.00	265.27	9,493.11	9,494.92	0.81	0.74	0.33
16,260.00	90.64	84.830	6,222.85	271.54	9,574.86	9,576.71	1.96	-0.40	-1.91
Last SDI MWD Survey									
16,322.00	90.64	84.830	6,222.16	277.13	9,636.60	9,638.50	0.00	0.00	0.00
Projection to TD									

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
116.00	116.00	0.05	-0.09	First Helmer MWD Survey
767.00	766.99	1.35	-3.36	Last Helmer MWD Survey
879.00	878.98	0.95	-4.27	First SDI MWD Survey
5,876.00	5,811.92	392.30	-507.05	Curve KOP
5,911.00	5,846.71	392.59	-503.24	First SDI MWD Curve Survey
6,614.00	6,301.54	318.29	-55.70	Last SDI MWD Curve Survey
6,765.00	6,310.04	287.98	91.89	First SDI MWD Lateral Survey
16,260.00	6,222.85	271.54	9,574.86	Last SDI MWD Survey
16,322.00	6,222.16	277.13	9,636.60	Projection to TD

Checked By: _____ Approved By: _____ Date: _____