



# Survey Report

**Service Company:** Integrity Directional

**Location:** Anschutz Equus Farms

**Well:** AEF\_4\_62\_33\_1724C

**Rig:** Cade #24

**API or UWI:** 05-123-39732

**Job Number:** 18176BE-CO

**State:** Colorado

**Operating Company:** Bill Barrett Corp.

**County:** Weld

**Magnetic Declination:** 0.00

**Country:** USA

**Proposed Azimuth:** 87.58

**Comment**

**North Reference:** TRUE

**Latitude:** 40.269944

**Longitude:** -104.337222

## Tie-In Data

MD	Inclination	Azimuth	TVD	NS	EW
804.00	0.80	188.40	803.93	-8.76	-0.58

## Survey Data

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
969.00	0.66	235.69	968.92	-10.44	-1.53	188.36	10.55	-1.97	0.36
1061.00	0.92	263.73	1060.91	-10.81	-2.71	194.04	11.15	-3.16	0.50
1152.00	0.09	256.43	1151.91	-10.91	-3.50	197.79	11.46	-3.96	0.91
1335.00	1.67	61.76	1334.88	-9.68	-1.29	187.60	9.77	-1.70	0.96
1426.00	1.63	30.38	1425.84	-7.94	0.53	176.17	7.96	0.20	0.98
1517.00	1.36	29.06	1516.81	-5.88	1.71	163.77	6.12	1.46	0.30
1607.00	1.27	30.29	1606.79	-4.08	2.73	146.21	4.91	2.56	0.10
1699.00	2.90	334.66	1698.73	-1.10	2.25	116.04	2.50	2.20	2.63
1790.00	5.93	337.47	1789.45	5.32	-0.54	354.25	5.35	-0.31	3.34
1881.00	8.62	323.23	1879.72	15.13	-6.42	337.01	16.44	-5.78	3.54
1972.00	10.68	313.21	1969.43	26.37	-16.65	327.73	31.19	-15.52	2.91
2063.00	12.48	312.68	2058.58	38.81	-30.03	322.27	49.07	-28.36	1.98
2155.00	14.64	310.22	2148.01	53.06	-46.21	318.94	70.36	-43.93	2.43
2246.00	13.67	303.02	2236.25	66.34	-64.01	316.02	92.19	-61.15	2.21
2338.00	16.13	304.95	2325.15	79.59	-83.61	313.59	115.43	-80.17	2.73
2431.00	18.46	303.02	2413.94	95.02	-106.54	311.73	142.76	-102.44	2.58

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
2525.00	21.41	307.50	2502.30	113.58	-132.64	310.57	174.62	-127.73	3.53
2618.00	21.45	307.94	2588.87	134.37	-159.52	310.11	208.57	-153.70	0.18
2712.00	21.98	307.59	2676.20	155.66	-187.01	309.77	243.32	-180.27	0.58
2806.00	21.32	307.50	2763.57	176.80	-214.51	309.50	277.98	-206.85	0.70
2899.00	19.96	306.44	2850.60	196.52	-240.69	309.23	310.73	-232.18	1.52
2993.00	18.42	306.27	2939.37	214.84	-265.58	308.97	341.59	-256.27	1.64
3087.00	17.14	297.30	3028.90	229.98	-289.86	308.43	370.01	-279.89	3.21
3181.00	15.34	301.43	3119.15	242.82	-312.78	307.82	395.97	-302.25	2.27
3275.00	14.86	307.41	3209.91	256.62	-332.97	307.62	420.38	-321.84	1.73
3369.00	14.15	311.45	3300.91	271.55	-351.16	307.72	443.90	-339.38	1.31
3463.00	13.45	310.49	3392.20	286.26	-368.08	307.87	466.29	-355.67	0.78
3557.00	13.71	307.32	3483.57	300.11	-385.25	307.92	488.35	-372.24	0.84
3650.00	12.44	308.55	3574.16	313.03	-401.85	307.92	509.39	-388.28	1.40
3744.00	10.77	313.83	3666.24	325.43	-416.11	308.03	528.25	-402.00	2.10
3838.00	8.31	312.86	3758.93	336.13	-427.43	308.18	543.76	-412.85	2.62
3932.00	6.68	303.02	3852.13	343.73	-436.99	308.19	555.98	-422.09	2.20
4026.00	3.96	316.37	3945.72	349.06	-443.82	308.19	564.64	-428.68	3.16
4120.00	2.24	291.94	4039.58	352.10	-447.76	308.18	569.61	-432.49	2.27
4214.00	1.98	251.51	4133.52	352.27	-451.00	307.99	572.27	-435.73	1.57
4307.00	1.76	258.45	4226.47	351.47	-453.93	307.75	574.09	-438.68	0.34
4401.00	1.49	241.23	4320.44	350.60	-456.41	307.53	575.53	-441.20	0.59
4496.00	0.26	266.54	4415.42	349.99	-457.71	307.40	576.19	-442.52	1.33
4590.00	0.18	127.94	4509.42	349.88	-457.81	307.39	576.20	-442.62	0.44
4684.00	0.57	119.15	4603.42	349.57	-457.28	307.40	575.59	-442.11	0.42
4777.00	0.79	118.09	4696.41	349.04	-456.31	307.41	574.50	-441.17	0.24
4871.00	0.44	347.31	4790.41	349.09	-455.82	307.45	574.14	-440.67	1.20
4965.00	0.75	353.46	4884.41	350.05	-455.97	307.51	574.84	-440.78	0.34
5059.00	0.48	5.51	4978.40	351.05	-456.00	307.59	575.48	-440.77	0.32
5152.00	0.70	31.87	5071.40	351.92	-455.66	307.68	575.74	-440.40	0.37
5246.00	0.48	24.93	5165.39	352.77	-455.19	307.78	575.89	-439.89	0.25
5434.00	0.84	333.86	5353.38	354.72	-455.47	307.91	577.30	-440.09	0.35
5528.00	0.84	343.88	5447.37	356.00	-455.96	307.98	578.48	-440.53	0.16
5622.00	0.66	329.65	5541.36	357.13	-456.43	308.04	579.54	-440.94	0.27
5716.00	0.53	284.91	5635.36	357.71	-457.12	308.04	580.44	-441.61	0.50
5809.00	0.31	304.77	5728.35	357.96	-457.75	308.03	581.09	-442.22	0.28
5903.00	3.65	105.96	5822.30	357.28	-455.08	308.14	578.57	-439.58	4.20
5997.00	13.85	101.66	5915.08	354.18	-441.14	308.76	565.73	-425.80	10.87

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
6091.00	22.07	109.48	6004.43	346.00	-413.43	309.93	539.11	-398.45	9.09
6185.00	32.35	102.10	6087.94	334.81	-372.06	311.98	500.53	-357.59	11.49
6278.00	46.20	98.49	6159.77	324.58	-314.25	315.93	451.78	-300.27	15.09
6372.00	55.65	91.90	6218.99	318.27	-241.71	322.79	399.65	-228.05	11.42
6465.00	65.54	89.97	6264.60	317.02	-160.80	333.10	355.47	-147.27	10.79
6512.00	72.35	88.74	6281.48	317.52	-116.97	339.78	338.38	-103.46	14.69
6558.00	78.99	88.91	6292.86	318.43	-72.44	347.18	326.57	-58.93	14.44
6625.00	89.05	88.39	6299.83	320.00	-5.90	358.94	320.06	7.61	15.03
6669.00	90.07	88.47	6300.17	321.21	38.08	6.76	323.46	51.61	2.33
6738.00	92.92	88.91	6298.37	322.79	107.03	18.34	340.07	120.56	4.18
6831.00	93.19	87.33	6293.41	325.83	199.84	31.52	382.24	213.42	1.72
6925.00	93.10	88.30	6288.25	329.41	293.63	41.71	441.28	307.28	1.03
7019.00	93.76	88.12	6282.63	332.34	387.42	49.38	510.44	401.10	0.73
7112.00	93.01	86.45	6277.14	336.74	480.15	54.96	586.46	493.94	1.97
7206.00	91.43	83.90	6273.50	344.64	573.73	59.01	669.29	587.77	3.19
7300.00	90.90	82.15	6271.58	356.05	667.01	61.91	756.10	681.45	1.94
7393.00	90.51	82.32	6270.44	368.62	759.15	64.10	843.92	774.04	0.46