

EXTRACTION OIL & GAS

Location: COLORADO Slot: SLOT#04 FAIRVIEW 4 (1855'FSL & 446'FWL, SEC.05)
Field: WELD COUNTY (NAD83/TRUE NORTH) Well: FAIRVIEW 4
Facility: SEC.05-T02N-R68W Wellbore: FAIRVIEW 4 PWB

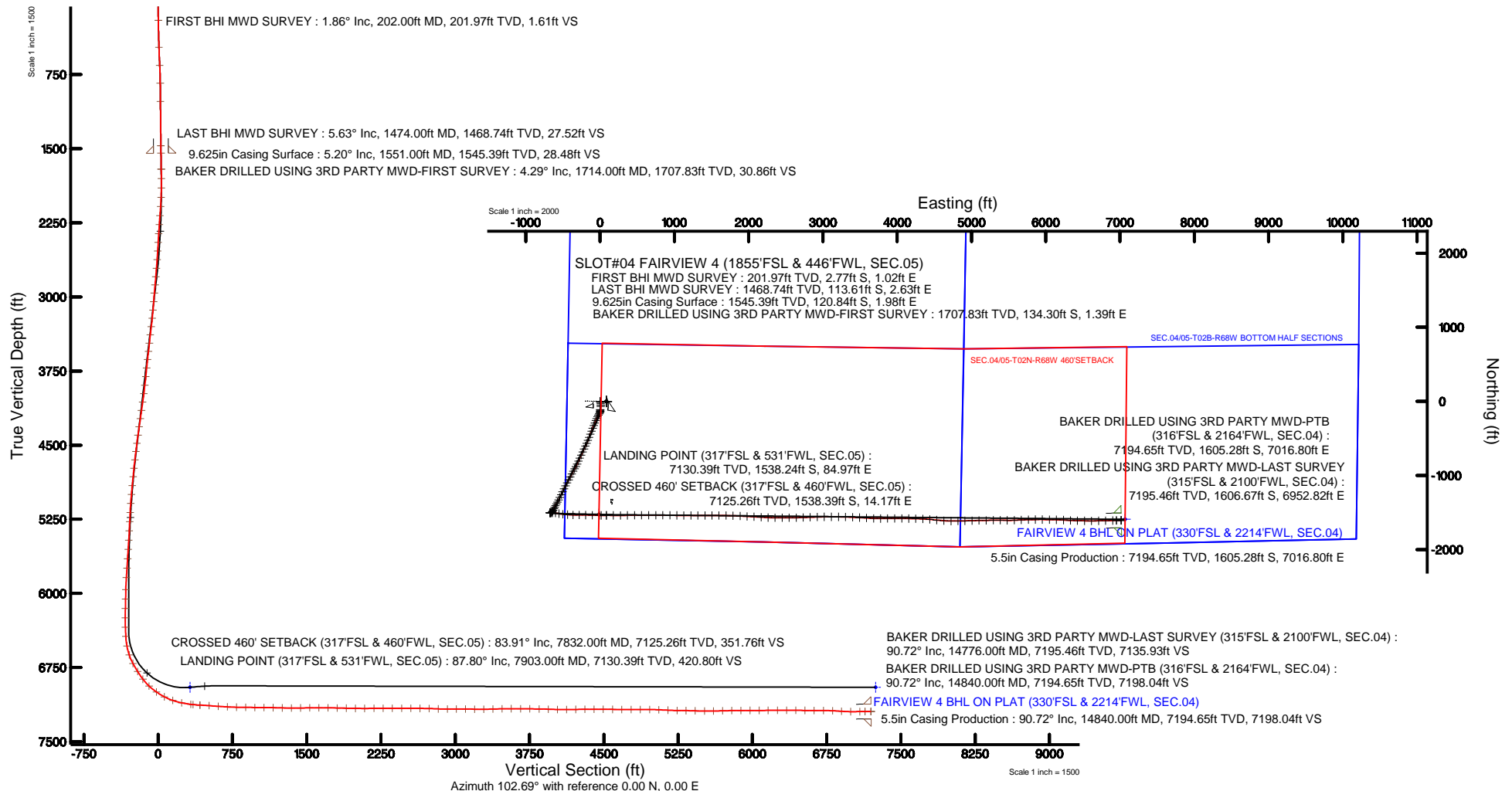
Plot reference wellpath is FAIRVIEW 4 PWP (REV-B.0)

True vertical depths are referenced to SAVANNA 802 (20'KB) (RKB)	* = Wellpath was transformed from a different geodetic datum
Measured depths are referenced to SAVANNA 802 (20'KB) (RKB)	North Reference: True north
SAVANNA 802 (20'KB) (RKB) to Mean Sea Level: 4964 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: SLOT#04 FAIRVIEW 4 (1855'FSL & 446'FWL, SEC.05)): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: ingmjamm on 2016-02-23
	Database: WA_DEN_Deriver_Defn



BGGM (1945.0 to 2017.0) Dip: 66.72° Field: 52416.6 nT
Magnetic North is 8.65 degrees East of True North (at 11/23/2015)

To correct azimuth from Magnetic to True add 8.65 degrees





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REFERENCE WELLPATH IDENTIFICATION

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Facility	SEC.05-T02N-R68W		

REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 5.0
North Reference	True	User	Ingmjmr
Scale	0.999958	Report Generated	2/23/2016 at 10:26:19 AM
Convergence at slot	0.31° East	Database/Source file	WA_DEN_Denver_Defn/FAIRVIEW_4_AWP.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	1.42	-83.85	3129963.42	1303570.22	40°09'56.736"N	105°02'05.881"W
Facility Reference Pt			3130047.27	1303569.24	40°09'56.722"N	105°02'04.801"W
Field Reference Pt			3185481.27	1419166.81	40°28'55.560"N	104°49'59.556"W

WELLPATH DATUM

Calculation method	Minimum curvature	SAVANNA 802 (20'KB) (RKB) to Facility Vertical Datum	4964.00ft
Horizontal Reference Pt	Slot	SAVANNA 802 (20'KB) (RKB) to Mean Sea Level	4964.00ft
Vertical Reference Pt	SAVANNA 802 (20'KB) (RKB)	SAVANNA 802 (20'KB) (RKB) to Mud Line at Slot (SLOT#04 FAIRVIEW 4 (1855'FSL & 446'FWL, SEC.05))	4964.00ft
MD Reference Pt	SAVANNA 802 (20'KB) (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	102.69°



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Facility	SEC.05-T02N-R68W		

WELLPATH DATA (149 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	159.710	0.00	0.00	0.00	0.00	0.00	
20.00	0.000	159.710	20.00	0.00	0.00	0.00	0.00	
202.00	1.860	159.710	201.97	1.61	-2.77	1.02	1.02	FIRST BHI MWD SURVEY
475.00	4.170	168.240	474.57	8.13	-16.65	4.58	0.86	
657.00	6.470	166.890	655.78	15.33	-33.11	8.26	1.27	
840.00	5.030	184.860	837.87	20.91	-51.15	9.92	1.25	
1024.00	5.930	187.650	1021.02	22.85	-68.61	7.97	0.51	
1474.00	5.630	185.840	1468.74	27.52	-113.61	2.63	0.08	LAST BHI MWD SURVEY
1714.00	4.290	180.270	1707.83	30.86	-134.30	1.39	0.59	BAKER DRILLED USING 3RD PARTY MWD-FIRST SURVEY
1809.00	3.710	179.630	1802.60	32.31	-140.92	1.39	0.61	
1904.00	6.100	203.030	1897.25	32.10	-148.64	-0.56	3.23	
1999.00	7.510	210.350	1991.59	29.31	-158.65	-5.68	1.74	
2094.00	9.900	213.960	2085.48	24.47	-170.78	-13.38	2.58	
2188.00	12.900	211.270	2177.62	18.19	-186.45	-23.34	3.24	
2281.00	15.110	207.350	2267.85	11.81	-206.10	-34.30	2.58	
2376.00	18.520	203.960	2358.78	5.73	-230.89	-46.12	3.73	
2471.00	19.890	201.140	2448.49	0.41	-259.75	-58.07	1.74	
2565.00	22.580	202.060	2536.10	-4.88	-291.40	-70.62	2.88	
2660.00	24.390	201.930	2623.23	-11.00	-326.50	-84.80	1.91	
2755.00	26.120	201.270	2709.15	-17.27	-364.18	-99.71	1.84	
2850.00	26.910	202.150	2794.15	-23.93	-403.58	-115.40	0.93	
2944.00	28.190	202.150	2877.49	-31.07	-443.85	-131.79	1.36	
3039.00	27.800	202.460	2961.38	-38.52	-485.11	-148.72	0.44	
3135.00	26.200	200.430	3046.91	-45.17	-525.66	-164.67	1.92	
3230.00	26.120	203.960	3132.19	-52.09	-564.42	-180.48	1.64	
3324.00	26.380	204.130	3216.49	-60.27	-602.39	-197.42	0.29	
3419.00	29.120	205.850	3300.56	-69.72	-642.46	-216.13	3.00	
3514.00	28.280	204.530	3383.89	-79.60	-683.74	-235.56	1.11	
3609.00	28.020	204.440	3467.65	-88.77	-724.53	-254.13	0.28	
3704.00	29.300	204.970	3551.01	-98.25	-765.92	-273.18	1.37	
3798.00	27.400	204.660	3633.73	-107.63	-806.43	-291.91	2.03	
3893.00	25.810	204.660	3718.67	-116.46	-845.09	-309.66	1.67	
3988.00	21.700	206.560	3805.60	-124.96	-879.61	-326.15	4.40	
4083.00	22.010	210.170	3893.78	-134.52	-910.71	-342.95	1.45	
4176.00	24.700	209.860	3979.15	-145.49	-942.64	-361.39	2.90	
4271.00	27.490	207.440	4064.46	-156.94	-979.32	-381.38	3.14	
4366.00	30.400	206.730	4147.59	-168.35	-1020.25	-402.30	3.08	
4460.00	27.000	207.350	4230.03	-179.53	-1060.46	-422.81	3.63	
4555.00	28.280	209.550	4314.19	-191.51	-1099.19	-443.81	1.72	
4650.00	29.780	206.340	4397.25	-203.61	-1139.92	-465.38	2.28	
4744.00	26.910	207.040	4479.98	-214.39	-1179.79	-485.41	3.07	
4839.00	29.120	206.250	4563.84	-225.14	-1219.68	-505.41	2.36	
4934.00	27.400	205.370	4647.51	-235.36	-1260.16	-525.01	1.86	
5029.00	22.890	205.850	4733.49	-244.37	-1296.56	-542.44	4.75	
5123.00	23.510	206.340	4819.89	-252.96	-1329.82	-558.73	0.69	



Actual Wellpath Report

FAIRVIEW 4 AWP

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Facility	SEC.05-T02N-R68W		

WELLPATH DATA (149 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
5218.00	19.090	208.360	4908.38	-261.63	-1360.48	-574.52	4.72	
5312.00	15.110	211.930	4998.21	-269.82	-1384.42	-588.31	4.38	
5407.00	15.510	209.070	5089.83	-277.48	-1406.03	-601.03	0.90	
5502.00	14.890	202.460	5181.52	-283.14	-1428.41	-611.86	1.94	
5597.00	11.090	207.660	5274.07	-287.57	-1447.79	-620.77	4.18	
5692.00	12.590	204.840	5367.05	-292.11	-1465.28	-629.36	1.69	
5788.00	7.600	218.370	5461.55	-297.07	-1479.77	-637.71	5.72	
5882.00	9.190	216.340	5554.54	-302.77	-1490.69	-646.01	1.72	
5977.00	6.410	222.730	5648.65	-308.47	-1500.69	-654.11	3.06	
6072.00	4.510	252.430	5743.23	-314.35	-1505.72	-661.27	3.52	
6167.00	4.200	284.470	5837.97	-321.06	-1505.98	-668.20	2.55	
6291.00	1.190	254.370	5961.83	-326.73	-1505.19	-673.84	2.60	
6386.00	1.810	296.630	6056.79	-329.06	-1504.78	-676.13	1.29	
6481.00	0.400	312.760	6151.77	-330.80	-1503.88	-677.71	1.51	
6575.00	2.610	352.860	6245.74	-331.81	-1501.54	-678.22	2.47	
6671.00	1.990	100.530	6341.69	-330.88	-1499.67	-676.85	3.89	
6765.00	3.490	113.350	6435.58	-326.44	-1501.11	-672.62	1.71	
6861.00	9.590	105.860	6530.92	-315.58	-1504.45	-662.24	6.40	
6955.00	19.620	86.650	6621.81	-292.52	-1505.67	-638.88	11.71	
7050.00	28.500	96.650	6708.50	-254.56	-1507.37	-600.35	10.25	
7144.00	31.820	100.270	6789.77	-207.48	-1514.39	-553.67	4.03	
7239.00	36.990	98.150	6868.13	-153.93	-1522.91	-500.70	5.59	
7333.00	47.280	92.550	6937.77	-91.56	-1528.47	-438.02	11.64	
7429.00	55.810	92.860	6997.42	-17.59	-1532.03	-363.00	8.89	
7524.00	62.220	90.040	7046.31	62.23	-1534.02	-281.63	7.21	
7618.00	71.900	90.570	7082.90	146.68	-1534.50	-195.17	10.31	
7713.00	78.700	91.940	7107.00	236.69	-1536.52	-103.36	7.29	
7808.00	82.590	90.260	7122.44	328.50	-1538.32	-9.66	4.45	
7832.00†	83.906	90.105	7125.26	351.76	-1538.39	14.17	5.52	CROSSED 460' SETBACK (317'FSL & 460'FWL, SEC.05)
7903.00	87.800	89.650	7130.39	420.80	-1538.24	84.97	5.52	LANDING POINT (317'FSL & 531'FWL, SEC.05)
7998.00	85.820	90.660	7135.68	513.39	-1538.50	179.82	2.34	
8093.00	86.390	89.870	7142.13	605.95	-1538.93	274.59	1.02	
8188.00	86.480	88.850	7148.04	698.21	-1537.87	369.40	1.08	
8283.00	89.480	90.040	7151.39	790.61	-1536.96	464.33	3.40	
8378.00	89.310	90.040	7152.39	883.30	-1537.02	559.32	0.18	
8473.00	88.600	89.870	7154.12	975.95	-1536.95	654.31	0.77	
8568.00	90.410	90.130	7154.94	1068.62	-1536.95	749.30	1.92	
8663.00	88.510	90.260	7155.84	1161.36	-1537.27	844.29	2.00	
8758.00	88.380	90.260	7158.42	1254.10	-1537.70	939.25	0.14	
8852.00	90.410	90.570	7159.41	1345.94	-1538.38	1033.24	2.18	
8947.00	90.190	90.660	7158.91	1438.84	-1539.40	1128.23	0.25	
9041.00	90.720	90.130	7158.16	1530.68	-1540.05	1222.23	0.80	
9136.00	90.280	89.730	7157.34	1623.33	-1539.93	1317.22	0.63	
9231.00	89.400	89.730	7157.60	1715.91	-1539.49	1412.22	0.93	
9326.00	88.820	89.870	7159.08	1808.50	-1539.16	1507.21	0.63	



Actual Wellpath Report

FAIRVIEW 4 AWP

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Operator	EXTRACTION OIL & GAS	Slot	SLOT#04 FAIRVIEW 4 (1855'FSL & 446'FWL, SEC.05)
Area	COLORADO	Well	FAIRVIEW 4
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	FAIRVIEW 4 AWB
Facility	SEC.05-T02N-R68W		

WELLPATH DATA (149 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
9420.00	88.290	90.440	7161.45	1900.23	-1539.41	1601.18	0.83	
9515.00	89.480	91.450	7163.30	1993.22	-1540.98	1696.14	1.64	
9609.00	90.010	91.450	7163.71	2085.42	-1543.35	1790.11	0.56	
9704.00	90.900	93.040	7162.96	2178.84	-1547.08	1885.03	1.92	
9798.00	90.410	93.350	7161.88	2271.54	-1552.31	1978.88	0.62	
9892.00	89.620	92.950	7161.86	2364.24	-1557.48	2072.74	0.94	
9987.00	89.400	93.350	7162.67	2457.92	-1562.70	2167.59	0.48	
10081.00	90.190	92.950	7163.01	2550.62	-1567.86	2261.45	0.94	
10176.00	89.480	90.350	7163.28	2643.86	-1570.60	2356.40	2.84	
10271.00	88.380	89.730	7165.06	2736.53	-1570.67	2451.38	1.33	
10365.00	87.410	89.650	7168.51	2828.06	-1570.16	2545.31	1.04	
10460.00	90.410	88.940	7170.32	2920.45	-1568.99	2640.28	3.25	
10554.00	90.500	88.370	7169.57	3011.64	-1566.78	2734.25	0.61	
10649.00	89.220	88.150	7169.80	3103.64	-1563.90	2829.20	1.37	
10744.00	88.510	87.440	7171.68	3195.43	-1560.24	2924.11	1.06	
10839.00	90.990	89.950	7172.10	3287.59	-1558.08	3019.07	3.71	
10934.00	91.300	89.870	7170.20	3380.22	-1557.93	3114.05	0.34	
11029.00	91.780	90.260	7167.65	3472.89	-1558.04	3209.02	0.65	
11124.00	89.880	92.160	7166.27	3565.97	-1560.05	3303.98	2.83	
11219.00	89.310	92.550	7166.94	3659.43	-1563.95	3398.89	0.73	
11313.00	89.310	92.950	7168.07	3752.01	-1568.46	3492.78	0.43	
11408.00	89.310	93.570	7169.22	3845.72	-1573.86	3587.62	0.65	
11503.00	87.890	92.860	7171.54	3939.39	-1579.19	3682.44	1.67	
11597.00	88.910	89.950	7174.16	4031.53	-1581.49	3776.36	3.28	
11692.00	90.280	89.340	7174.84	4124.07	-1580.90	3871.35	1.58	
11787.00	90.810	90.130	7173.93	4216.65	-1580.46	3966.35	1.00	
11882.00	90.410	90.130	7172.92	4309.37	-1580.68	4061.34	0.42	
11976.00	89.790	90.750	7172.76	4401.23	-1581.40	4155.34	0.93	
12071.00	89.700	91.140	7173.18	4494.24	-1582.97	4250.32	0.42	
12166.00	89.790	93.170	7173.60	4587.63	-1586.54	4345.25	2.14	
12261.00	89.700	94.760	7174.03	4681.53	-1593.11	4440.02	1.68	
12355.00	89.480	96.040	7174.70	4774.76	-1601.95	4533.60	1.38	
12450.00	89.700	94.140	7175.38	4868.92	-1610.38	4628.22	2.01	
12546.00	90.190	90.840	7175.47	4963.39	-1614.55	4724.11	3.48	
12640.00	87.720	88.460	7177.18	5054.94	-1613.98	4818.08	3.65	
12735.00	87.100	88.760	7181.48	5146.99	-1611.68	4912.95	0.72	
12830.00	89.220	88.630	7184.53	5239.12	-1609.51	5007.88	2.24	
12924.00	89.220	88.940	7185.81	5330.35	-1607.52	5101.85	0.33	
13019.00	88.110	88.760	7188.02	5422.57	-1605.61	5196.80	1.18	
13115.00	89.220	88.850	7190.26	5515.74	-1603.61	5292.75	1.16	
13209.00	91.210	90.840	7189.90	5607.38	-1603.36	5386.74	2.99	
13303.00	91.520	91.060	7187.66	5699.38	-1604.92	5480.70	0.40	
13399.00	90.990	87.530	7185.56	5792.73	-1603.73	5576.65	3.72	
13494.00	90.720	88.060	7184.14	5884.53	-1600.08	5671.57	0.63	
13588.00	89.790	88.060	7183.73	5975.48	-1596.90	5765.52	0.99	



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WELLPATH DATA (149 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
13683.00	90.100	89.560	7183.82	6067.70	-1594.93	5860.49	1.61	
13777.00	90.280	90.350	7183.51	6159.39	-1594.85	5954.49	0.86	
13872.00	90.280	91.060	7183.04	6252.32	-1596.02	6049.48	0.75	
13967.00	90.280	91.540	7182.58	6345.45	-1598.18	6144.46	0.51	
14061.00	89.400	92.330	7182.84	6437.79	-1601.35	6238.40	1.26	
14156.00	89.400	93.350	7183.83	6531.39	-1606.06	6333.28	1.07	
14250.00	89.620	91.060	7184.64	6623.81	-1609.67	6427.20	2.45	
14345.00	90.190	91.140	7184.80	6716.87	-1611.50	6522.18	0.61	
14440.00	87.010	89.730	7187.12	6809.66	-1612.22	6617.14	3.66	
14534.00	85.900	89.250	7192.93	6901.00	-1611.38	6710.95	1.29	
14629.00	90.010	88.760	7196.32	6993.23	-1609.73	6805.86	4.36	
14724.00	90.410	88.850	7195.97	7085.45	-1607.75	6900.83	0.43	
14776.00	90.720	88.760	7195.46	7135.93	-1606.67	6952.82	0.62	BAKER DRILLED USING 3RD PARTY MWD-LAST SURVEY (315'FSL & 2100'FWL, SEC.04)
14840.00	90.720	88.760	7194.65	7198.04	-1605.28	7016.80	0.00	BAKER DRILLED USING 3RD PARTY MWD-PTB (316'FSL & 2164'FWL, SEC.04)

HOLE & CASING SECTIONS - Ref Wellbore: FAIRVIEW 4 AWB Ref Wellpath: FAIRVIEW 4 AWP

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.5in Open Hole	20.00	1551.00	1531.00	20.00	1545.39	0.00	0.00	-120.84	1.98
9.625in Casing Surface	20.00	1551.00	1531.00	20.00	1545.39	0.00	0.00	-120.84	1.98
7.875in Open Hole	1551.00	14840.00	13289.00	1545.39	7194.65	-120.84	1.98	-1605.28	7016.80
5.5in Casing Production	20.00	14840.00	14820.00	20.00	7194.65	0.00	0.00	-1605.28	7016.80

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
SEC.04-T02N-R68W	3.00	-1.42	83.85	3130047.27	1303569.24	40°09'56.722"N	105°02'04.801"W	polygon
SEC.05-T02N-R68W	3.00	-1.42	83.85	3130047.27	1303569.24	40°09'56.722"N	105°02'04.801"W	polygon
FAIRVIEW 4 BHL ON PLAT (330'FSL & 2214'FWL, SEC.04)	6950.00	-1591.34	7067.22	3137038.58	1302016.03	40°09'41.000"N	105°00'34.855"W	point
FAIRVIEW 4 LANDING POINT (330'FSL & 460'FWL, SEC.05)	6950.00	-1524.95	-14.55	3129956.87	1302045.28	40°09'41.666"N	105°02'06.068"W	point
SEC.04/05-T02B-R68W BOTTOM HALF SECTIONS	7683.00	-1.42	83.85	3130047.27	1303569.24	40°09'56.722"N	105°02'04.801"W	polygon
SEC.04/05-T02N-R68W 460'SETBACK	7683.00	-1.42	83.85	3130047.27	1303569.24	40°09'56.722"N	105°02'04.801"W	polygon



Actual Wellpath Report

FAIRVIEW 4 AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	EXTRACTION OIL & GAS	Slot	SLOT#04 FAIRVIEW 4 (1855'FSL & 446'FWL, SEC.05)
Area	COLORADO	Well	FAIRVIEW 4
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	FAIRVIEW 4 AWB
Facility	SEC.05-T02N-R68W		

WELLPATH COMPOSITION - Ref Wellbore: FAIRVIEW 4 AWB Ref Wellpath: FAIRVIEW 4 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
20.00	1474.00	Custom NaviTrak (Standard) (Rockies 0.03Gt model)	BHI MWD/NAVITRAK (STD) 13.5" HOLE <202-1474>	FAIRVIEW 4 AWB
1474.00	14776.00	ISCWSA MWD, Rev. 3 (Standard)	BAKER DRILLED USING 3RD PARTY MWD <1714-14776>	FAIRVIEW 4 AWB
14776.00	14840.00	Blind Drilling (std)	Projection to bit	FAIRVIEW 4 AWB



Actual Wellpath Report

FAIRVIEW 4 AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	EXTRACTION OIL & GAS	Slot	SLOT#04 FAIRVIEW 4 (1855'FSL & 446'FWL, SEC.05)
Area	COLORADO	Well	FAIRVIEW 4
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	FAIRVIEW 4 AWB
Facility	SEC.05-T02N-R68W		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
202.00	1.860	159.710	201.97	FIRST BHI MWD SURVEY
1474.00	5.630	185.840	1468.74	LAST BHI MWD SURVEY
1714.00	4.290	180.270	1707.83	BAKER DRILLED USING 3RD PARTY MWD-FIRST SURVEY
7832.00	83.906	90.105	7125.26	CROSSED 460' SETBACK (317'FSL & 460'FWL, SEC.05)
7903.00	87.800	89.650	7130.39	LANDING POINT (317'FSL & 531'FWL, SEC.05)
14776.00	90.720	88.760	7195.46	BAKER DRILLED USING 3RD PARTY MWD-LAST SURVEY (315'FSL & 2100'FWL, SEC.04)
14840.00	90.720	88.760	7194.65	BAKER DRILLED USING 3RD PARTY MWD-PTB (316'FSL & 2164'FWL, SEC.04)