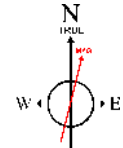




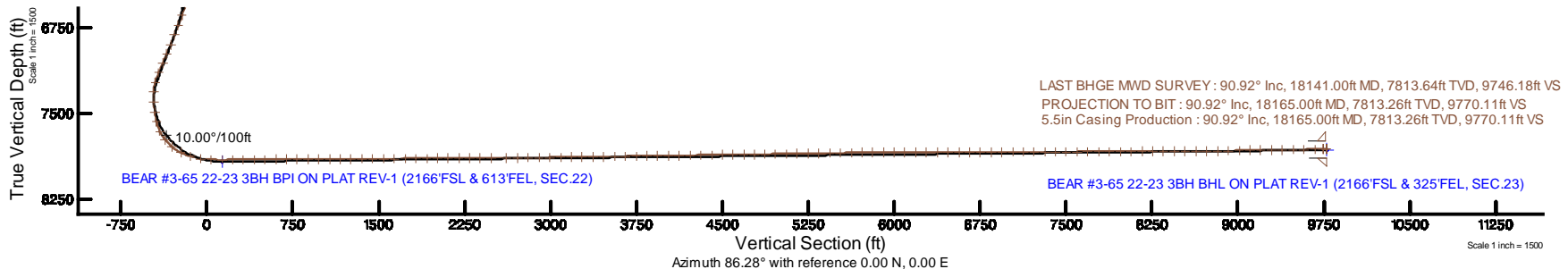
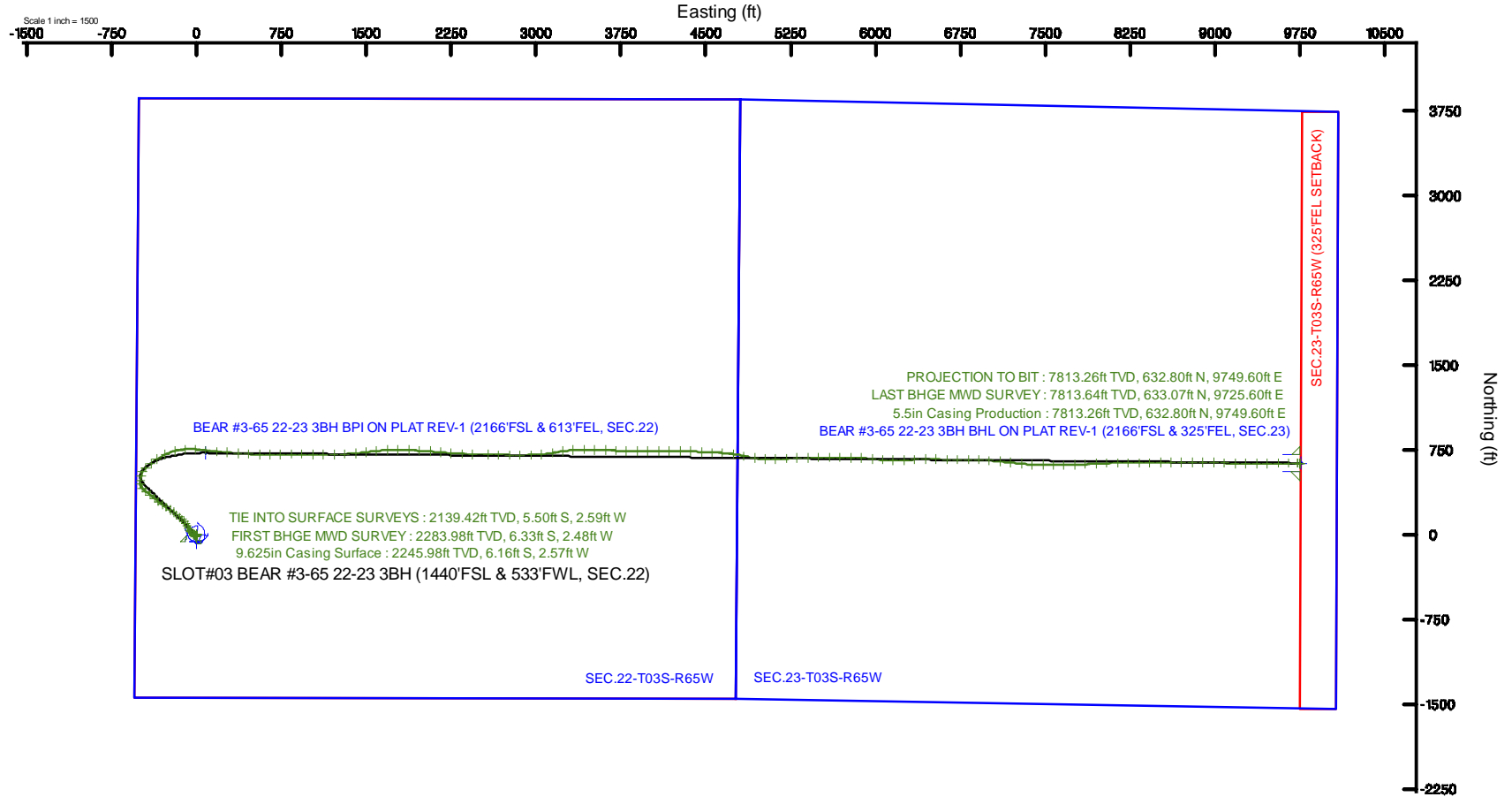
BURLINGTON RESOURCES

Location: COLORADO Slot: SLOT#03 BEAR #3-65 22-23 3BH (1440'FSL & 533'FWL, SEC.22)
Field: ADAMS COUNTY (NAD83/TN) Well: BEAR #3-65 22-23 3BH
Facility: SEC.22-T03S-R65W Wellbore: BEAR #3-65 22-23 3BH.PWB

Plot reference wellpath is BEAR #3-65 22-23 3BH (REV-A.0) PWP	Grid System: NAD83 / Lambert Colorado SP, Northern Zone (501), US feet
True vertical depths are referenced to NABORS B16 (25KB) (RKB)	* = Wellpath was transformed from a different geodetic datum
Measured depths are referenced to NABORS B16 (25KB) (RKB)	North Reference: True north
NABORS B16 (25KB) (RKB) to Mean Sea Level: 5596 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: SLOT#03 BEAR #3-65 22-23 3BH (1440'FSL & 533'FWL, SEC.22): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: adamkat on 2019-01-23
	Database: Denver



BGGM (1900.0 to 2019.0) Dip: 66.36° Field: 51926 nT
Magnetic North is 8.19 degrees East of True North (at 8/1/2018)
To correct azimuth from Magnetic to True add 8.19 degrees



REFERENCE WELLPATH IDENTIFICATION			
Operator	BURLINGTON RESOURCES	Slot	SLOT#03 BEAR #3-65 22-23 3BH (1440'FSL & 533'FWL, SEC.22)
Area	COLORADO	Well	BEAR #3-65 22-23 3BH
Field	ADAMS COUNTY (NAD83/TN)	Wellbore	BEAR #3-65 22-23 3BH AWB
Facility	SEC.22-T03S-R65W		

REPORT SETUP INFORMATION			
Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 5.0
North Reference	True	User	Adamkat
Scale	0.999991	Report Generated	1/23/2019 at 1:13:15 PM
Convergence at slot	0.55° East	Database/Source file	Denver/BEAR_#3-65_22-23_3BH_AWP.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	63.75	0.78	3236798.27	1161275.13	39°46'22.730"N	104°39'27.170"W
Facility Reference Pt			3236798.09	1161211.38	39°46'22.100"N	104°39'27.180"W
Field Reference Pt			3257309.99	1164230.85	39°46'49.930"N	104°35'04.090"W

WELLPATH DATUM			
Calculation method	Minimum curvature	NABORS B16 (25'KB) (RKB) to Facility Vertical Datum	5596.00ft
Horizontal Reference Pt	Slot	NABORS B16 (25'KB) (RKB) to Mean Sea Level	5596.00ft
Vertical Reference Pt	NABORS B16 (25'KB) (RKB)	NABORS B16 (25'KB) (RKB) to Mud Line at Slot (SLOT#03 BEAR #3-65 22-23 3BH (1440'FSL & 533'FWL, SEC.22))	5596.00ft
MD Reference Pt	NABORS B16 (25'KB) (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	86.28°

Actual Wellpath Report

BEAR #3-65 22-23 3BH AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BURLINGTON RESOURCES	Slot	SLOT#03 BEAR #3-65 22-23 3BH (1440'FSL & 533'FWL, SEC.22)
Area	COLORADO	Well	BEAR #3-65 22-23 3BH
Field	ADAMS COUNTY (NAD83/TN)	Wellbore	BEAR #3-65 22-23 3BH AWP
Facility	SEC.22-T03S-R65W		

WELLPATH DATA (171 stations)												
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
2139.44	0.430	190.980	2139.42	-2.95	-5.50	-2.59	3236795.72	1161269.60	39°46'22.676"N	104°39'27.203"W	0.15	TIE INTO SURFACE SURVEYS
2284.00	0.290	143.900	2283.98	-2.89	-6.33	-2.48	3236795.84	1161268.78	39°46'22.667"N	104°39'27.202"W	0.22	FIRST BHGE MWD SURVEY
2347.00	0.070	57.390	2346.98	-2.77	-6.44	-2.36	3236795.97	1161268.67	39°46'22.666"N	104°39'27.200"W	0.47	
2442.00	0.030	156.150	2441.98	-2.71	-6.43	-2.30	3236796.03	1161268.68	39°46'22.666"N	104°39'27.199"W	0.08	
2536.00	0.060	333.720	2535.98	-2.72	-6.41	-2.31	3236796.02	1161268.70	39°46'22.667"N	104°39'27.200"W	0.10	
2630.00	0.090	303.800	2629.98	-2.80	-6.32	-2.39	3236795.93	1161268.78	39°46'22.667"N	104°39'27.201"W	0.05	
2725.00	0.060	186.250	2724.98	-2.86	-6.33	-2.46	3236795.87	1161268.77	39°46'22.667"N	104°39'27.201"W	0.14	
2819.00	0.070	234.430	2818.98	-2.92	-6.41	-2.51	3236795.81	1161268.69	39°46'22.667"N	104°39'27.202"W	0.06	
2913.00	0.090	248.980	2912.98	-3.04	-6.47	-2.63	3236795.70	1161268.63	39°46'22.666"N	104°39'27.204"W	0.03	
3008.00	0.030	140.830	3007.98	-3.10	-6.52	-2.68	3236795.65	1161268.58	39°46'22.666"N	104°39'27.204"W	0.11	
3102.00	0.060	86.210	3101.98	-3.03	-6.54	-2.62	3236795.71	1161268.57	39°46'22.665"N	104°39'27.204"W	0.05	
3196.00	0.030	329.740	3195.98	-3.00	-6.51	-2.58	3236795.75	1161268.59	39°46'22.666"N	104°39'27.203"W	0.08	
3291.00	0.040	283.610	3290.98	-3.04	-6.48	-2.62	3236795.70	1161268.62	39°46'22.666"N	104°39'27.204"W	0.03	
3385.00	0.070	328.400	3384.98	-3.10	-6.43	-2.69	3236795.64	1161268.68	39°46'22.666"N	104°39'27.204"W	0.05	
3480.00	0.190	150.330	3479.98	-3.06	-6.51	-2.64	3236795.69	1161268.59	39°46'22.666"N	104°39'27.204"W	0.27	
3575.00	0.040	59.990	3574.98	-2.96	-6.63	-2.53	3236795.80	1161268.47	39°46'22.664"N	104°39'27.202"W	0.20	
3669.00	0.070	119.020	3668.98	-2.88	-6.65	-2.45	3236795.87	1161268.46	39°46'22.664"N	104°39'27.201"W	0.06	
3763.00	0.040	98.850	3762.98	-2.80	-6.68	-2.37	3236795.96	1161268.43	39°46'22.664"N	104°39'27.200"W	0.04	
3858.00	0.070	88.020	3857.98	-2.71	-6.68	-2.28	3236796.05	1161268.43	39°46'22.664"N	104°39'27.199"W	0.03	
3952.00	0.040	120.210	3951.98	-2.62	-6.70	-2.19	3236796.13	1161268.41	39°46'22.664"N	104°39'27.198"W	0.04	
4046.00	0.110	192.290	4045.98	-2.62	-6.80	-2.18	3236796.14	1161268.31	39°46'22.663"N	104°39'27.198"W	0.11	
4140.00	0.090	143.850	4139.98	-2.61	-6.95	-2.16	3236796.17	1161268.16	39°46'22.661"N	104°39'27.198"W	0.09	
4234.00	0.060	98.930	4233.98	-2.52	-7.02	-2.07	3236796.26	1161268.10	39°46'22.661"N	104°39'27.196"W	0.07	
4328.00	0.040	339.760	4327.98	-2.48	-6.99	-2.03	3236796.30	1161268.12	39°46'22.661"N	104°39'27.196"W	0.09	
4423.00	0.130	249.180	4422.98	-2.59	-7.00	-2.14	3236796.19	1161268.11	39°46'22.661"N	104°39'27.197"W	0.14	
4517.00	0.000	98.280	4516.98	-2.69	-7.04	-2.24	3236796.09	1161268.07	39°46'22.660"N	104°39'27.199"W	0.14	
4611.00	0.180	243.940	4610.98	-2.83	-7.10	-2.38	3236795.96	1161268.01	39°46'22.660"N	104°39'27.200"W	0.19	
4707.00	1.140	268.210	4706.97	-3.93	-7.20	-3.47	3236794.87	1161267.90	39°46'22.659"N	104°39'27.214"W	1.02	
4801.00	0.040	244.100	4800.96	-4.89	-7.24	-4.43	3236793.90	1161267.85	39°46'22.658"N	104°39'27.227"W	1.17	
4895.00	0.090	71.830	4894.96	-4.85	-7.23	-4.39	3236793.94	1161267.86	39°46'22.659"N	104°39'27.226"W	0.14	
4990.00	0.090	241.800	4989.96	-4.84	-7.25	-4.38	3236793.95	1161267.84	39°46'22.658"N	104°39'27.226"W	0.19	
5084.00	0.070	275.130	5083.96	-4.97	-7.27	-4.51	3236793.83	1161267.81	39°46'22.658"N	104°39'27.228"W	0.05	
5178.00	1.650	294.890	5177.95	-6.21	-6.70	-5.79	3236792.54	1161268.38	39°46'22.664"N	104°39'27.244"W	1.69	
5273.00	3.090	301.740	5272.87	-9.50	-4.78	-9.21	3236789.10	1161270.27	39°46'22.683"N	104°39'27.288"W	1.54	
5367.00	4.820	300.150	5366.64	-14.84	-1.46	-14.78	3236783.50	1161273.53	39°46'22.716"N	104°39'27.359"W	1.84	
5462.00	6.530	302.750	5461.17	-22.50	3.47	-22.77	3236775.46	1161278.38	39°46'22.764"N	104°39'27.462"W	1.82	
5556.00	8.090	304.820	5554.40	-31.97	10.14	-32.70	3236765.47	1161284.95	39°46'22.830"N	104°39'27.589"W	1.68	
5651.00	8.820	310.900	5648.37	-42.39	18.72	-43.69	3236754.40	1161293.43	39°46'22.915"N	104°39'27.730"W	1.21	
5745.00	9.790	322.650	5741.14	-51.94	29.79	-53.99	3236743.99	1161304.41	39°46'23.024"N	104°39'27.861"W	2.26	
5839.00	10.720	329.360	5833.64	-60.33	43.67	-63.29	3236734.56	1161318.20	39°46'23.162"N	104°39'27.981"W	1.61	
5934.00	11.760	332.110	5926.82	-68.29	59.83	-72.33	3236725.37	1161334.27	39°46'23.321"N	104°39'28.096"W	1.23	
6028.00	12.440	330.230	6018.73	-76.66	77.08	-81.83	3236715.70	1161351.43	39°46'23.492"N	104°39'28.218"W	0.84	
6123.00	14.980	323.240	6111.03	-87.85	95.81	-94.27	3236703.09	1161370.04	39°46'23.677"N	104°39'28.377"W	3.19	
6217.00	16.480	319.350	6201.50	-102.49	115.66	-110.22	3236686.95	1161389.73	39°46'23.873"N	104°39'28.582"W	1.95	
6311.00	17.660	315.960	6291.36	-119.73	136.02	-128.82	3236668.16	1161409.92	39°46'24.074"N	104°39'28.820"W	1.64	

Actual Wellpath Report

BEAR #3-65 22-23 3BH AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	BURLINGTON RESOURCES	Slot	SLOT#03 BEAR #3-65 22-23 3BH (1440'FSL & 533'FWL, SEC.22)
Area	COLORADO	Well	BEAR #3-65 22-23 3BH
Field	ADAMS COUNTY (NAD83/TN)	Wellbore	BEAR #3-65 22-23 3BH AWB
Facility	SEC.22-T03S-R65W		

WELLPATH DATA (171 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
6406.00	18.850	310.270	6381.59	-140.09	156.30	-150.55	3236646.24	1161430.00	39°46'24.275"N	104°39'29.098"W	2.25	
6500.00	21.080	309.020	6469.93	-163.44	176.77	-175.27	3236621.32	1161450.22	39°46'24.477"N	104°39'29.415"W	2.42	
6595.00	22.880	308.130	6558.03	-189.75	198.93	-203.08	3236593.31	1161472.12	39°46'24.696"N	104°39'29.771"W	1.93	
6689.00	23.930	306.500	6644.29	-217.92	221.55	-232.78	3236563.39	1161494.46	39°46'24.920"N	104°39'30.151"W	1.31	
6784.00	25.920	304.960	6730.44	-248.84	244.91	-265.29	3236530.67	1161517.51	39°46'25.150"N	104°39'30.568"W	2.20	
6878.00	27.160	304.960	6814.53	-281.63	268.98	-299.71	3236496.02	1161541.25	39°46'25.388"N	104°39'31.008"W	1.32	
6972.00	28.170	307.570	6897.79	-315.05	294.80	-334.88	3236460.60	1161566.73	39°46'25.643"N	104°39'31.459"W	1.68	
7067.00	30.440	309.670	6980.63	-349.39	323.84	-371.18	3236424.03	1161595.43	39°46'25.930"N	104°39'31.924"W	2.62	
7161.00	29.770	309.700	7061.95	-383.65	353.95	-407.47	3236387.46	1161625.19	39°46'26.228"N	104°39'32.389"W	0.71	
7256.00	30.060	307.440	7144.29	-418.69	383.48	-444.51	3236350.14	1161654.36	39°46'26.520"N	104°39'32.863"W	1.22	
7350.00	26.320	319.090	7227.19	-449.05	413.57	-476.88	3236317.48	1161684.15	39°46'26.817"N	104°39'33.278"W	7.06	
7444.00	21.010	350.470	7313.59	-463.42	446.09	-493.39	3236300.66	1161716.51	39°46'27.139"N	104°39'33.489"W	14.34	
7539.00	23.500	7.900	7401.61	-461.32	481.69	-493.61	3236300.10	1161752.11	39°46'27.490"N	104°39'33.492"W	7.40	
7633.00	23.540	10.320	7487.80	-452.99	518.72	-487.67	3236305.69	1161789.19	39°46'27.856"N	104°39'33.416"W	1.03	
7729.00	26.160	25.140	7574.99	-438.11	556.79	-475.23	3236317.77	1161827.37	39°46'28.233"N	104°39'33.257"W	7.02	
7823.00	33.690	46.490	7656.63	-407.95	593.65	-447.40	3236345.25	1161864.50	39°46'28.597"N	104°39'32.900"W	13.77	
7917.00	42.770	53.020	7730.42	-361.11	630.89	-402.89	3236389.40	1161902.16	39°46'28.965"N	104°39'32.330"W	10.56	
8011.00	54.180	56.750	7792.65	-301.05	671.13	-345.32	3236446.59	1161942.94	39°46'29.363"N	104°39'31.593"W	12.49	
8106.00	64.790	64.060	7840.86	-227.47	711.20	-274.19	3236517.33	1161983.68	39°46'29.759"N	104°39'30.682"W	12.98	
8200.00	73.170	75.280	7874.65	-143.57	741.37	-192.06	3236599.17	1162014.63	39°46'30.057"N	104°39'29.630"W	14.26	
8294.00	80.360	85.480	7896.21	-52.73	756.51	-102.02	3236689.06	1162030.63	39°46'30.206"N	104°39'28.477"W	13.03	
8389.00	88.520	95.180	7905.42	41.39	755.91	-7.66	3236783.42	1162030.92	39°46'30.200"N	104°39'28.687"W	13.30	
8483.00	90.280	96.060	7906.41	134.14	746.70	85.88	3236877.04	1162022.61	39°46'30.109"N	104°39'26.070"W	2.09	
8578.00	90.370	95.610	7905.87	227.82	737.05	180.38	3236971.63	1162013.85	39°46'30.014"N	104°39'24.860"W	0.48	
8672.00	90.180	94.700	7905.42	320.69	728.60	274.00	3237065.33	1162006.29	39°46'29.931"N	104°39'23.661"W	0.99	
8766.00	90.370	93.960	7904.97	413.76	721.50	367.73	3237159.12	1162000.09	39°46'29.860"N	104°39'22.460"W	0.81	
8861.00	90.340	92.740	7904.38	508.04	715.95	462.56	3237254.00	1161995.44	39°46'29.806"N	104°39'21.246"W	1.28	
8955.00	90.430	91.280	7903.75	601.56	712.66	556.50	3237347.96	1161993.03	39°46'29.773"N	104°39'20.043"W	1.56	
9050.00	90.430	89.690	7903.03	696.30	711.85	651.49	3237442.96	1161993.13	39°46'29.765"N	104°39'18.826"W	1.67	
9144.00	90.340	89.670	7902.40	790.13	712.38	745.49	3237536.94	1161994.55	39°46'29.770"N	104°39'17.622"W	0.10	
9238.00	90.460	89.130	7901.75	883.99	713.36	839.48	3237630.92	1161996.43	39°46'29.780"N	104°39'16.418"W	0.59	
9333.00	90.310	90.670	7901.11	978.80	713.53	934.48	3237725.91	1161997.49	39°46'29.781"N	104°39'15.202"W	1.63	
9427.00	90.430	91.440	7900.50	1072.47	711.80	1028.46	3237819.90	1161996.66	39°46'29.764"N	104°39'13.998"W	0.83	
9522.00	90.580	91.560	7899.66	1167.07	709.31	1123.42	3237914.88	1161995.07	39°46'29.740"N	104°39'12.782"W	0.20	
9615.00	90.460	87.840	7898.82	1259.88	709.80	1216.40	3238007.85	1161996.44	39°46'29.744"N	104°39'11.591"W	4.00	
9710.00	90.280	86.600	7898.21	1354.87	714.40	1311.28	3238102.69	1162001.95	39°46'29.790"N	104°39'10.375"W	1.32	
9804.00	90.310	85.230	7897.72	1448.86	721.10	1405.04	3238196.38	1162009.54	39°46'29.856"N	104°39'09.175"W	1.46	
9899.00	90.370	83.150	7897.16	1543.79	730.72	1499.55	3238290.79	1162020.05	39°46'29.951"N	104°39'07.964"W	2.19	
9993.00	90.280	83.930	7896.62	1637.68	741.29	1592.95	3238384.08	1162031.51	39°46'30.055"N	104°39'06.768"W	0.84	
10088.00	90.550	87.860	7895.94	1732.66	748.09	1687.68	3238478.75	1162039.21	39°46'30.123"N	104°39'05.555"W	4.15	
10182.00	90.490	89.790	7895.08	1826.56	750.02	1781.65	3238572.69	1162042.03	39°46'30.142"N	104°39'04.351"W	2.05	
10277.00	90.800	92.170	7894.01	1921.23	748.39	1876.63	3238667.68	1162041.31	39°46'30.125"N	104°39'03.135"W	2.53	
10371.00	90.370	93.250	7893.05	2014.63	743.95	1970.52	3238761.60	1162037.76	39°46'30.081"N	104°39'01.932"W	1.24	
10465.00	90.430	94.680	7892.40	2107.78	737.45	2064.29	3238855.43	1162032.15	39°46'30.017"N	104°39'00.731"W	1.52	
10559.00	90.370	95.060	7891.74	2200.72	729.47	2157.94	3238949.16	1162025.06	39°46'29.938"N	104°38'59.532"W	0.41	

Actual Wellpath Report

BEAR #3-65 22-23 3BH AWP

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REFERENCE WELLPATH IDENTIFICATION				
Operator	BURLINGTON RESOURCES	Slot	SLOT#03 BEAR #3-65 22-23 3BH (1440'FSL & 533'FWL, SEC.22)	
Area	COLORADO	Well	BEAR #3-65 22-23 3BH	
Field	ADAMS COUNTY (NAD83/TN)	Wellbore	BEAR #3-65 22-23 3BH AWB	
Facility	SEC.22-T03S-R65W			

WELLPATH DATA (171 stations)												
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
10654.00	90.220	94.220	7891.25	2294.71	721.79	2252.63	3239043.91	1162018.28	39°46'29.862"N	104°38'58.319"W	0.90	
10748.00	90.310	92.510	7890.82	2387.99	716.27	2346.46	3239137.79	1162013.65	39°46'29.808"N	104°38'57.117"W	1.82	
10843.00	90.310	91.330	7890.30	2482.53	713.09	2441.41	3239232.76	1162011.37	39°46'29.776"N	104°38'55.901"W	1.24	
10979.00	90.490	91.380	7889.35	2617.99	709.87	2577.37	3239368.74	1162009.45	39°46'29.744"N	104°38'54.160"W	0.14	
11073.00	90.520	91.790	7888.53	2711.58	707.27	2671.33	3239462.72	1162007.74	39°46'29.718"N	104°38'52.956"W	0.44	
11168.00	90.370	90.700	7887.79	2806.22	705.21	2766.30	3239557.71	1162006.58	39°46'29.698"N	104°38'51.740"W	1.16	
11262.00	90.400	89.770	7887.16	2899.99	704.82	2860.30	3239651.71	1162007.08	39°46'29.694"N	104°38'50.536"W	0.99	
11357.00	90.800	89.300	7886.16	2994.84	705.59	2955.29	3239746.68	1162008.76	39°46'29.701"N	104°38'49.320"W	0.65	
11451.00	90.740	84.470	7884.90	3088.79	710.70	3049.11	3239840.46	1162014.75	39°46'29.752"N	104°38'48.118"W	5.14	
11546.00	90.990	80.040	7883.46	3183.53	723.49	3143.21	3239934.43	1162028.45	39°46'29.878"N	104°38'46.913"W	4.67	
11640.00	90.860	80.540	7881.94	3277.00	739.35	3235.85	3240026.91	1162045.18	39°46'30.035"N	104°38'45.726"W	0.55	
11735.00	90.920	85.320	7880.47	3371.80	751.03	3330.09	3240121.04	1162057.76	39°46'30.150"N	104°38'44.519"W	5.03	
11829.00	90.800	90.090	7879.06	3465.73	754.80	3423.98	3240214.88	1162062.41	39°46'30.187"N	104°38'43.317"W	5.08	
11923.00	90.890	92.440	7877.67	3559.36	752.72	3517.94	3240308.86	1162061.23	39°46'30.166"N	104°38'42.113"W	2.50	
12018.00	90.860	92.580	7876.22	3653.79	748.56	3612.84	3240403.79	1162057.97	39°46'30.125"N	104°38'40.898"W	0.15	
12112.00	90.890	91.810	7874.78	3747.28	744.96	3706.76	3240497.74	1162055.27	39°46'30.090"N	104°38'39.695"W	0.82	
12206.00	91.020	91.270	7873.22	3840.87	742.44	3800.71	3240591.71	1162053.63	39°46'30.064"N	104°38'38.492"W	0.59	
12301.00	90.980	90.800	7871.56	3935.52	740.72	3895.68	3240686.69	1162052.82	39°46'30.047"N	104°38'37.275"W	0.50	
12395.00	90.920	90.290	7870.00	4029.25	739.83	3989.66	3240780.67	1162052.82	39°46'30.038"N	104°38'36.072"W	0.55	
12489.00	90.830	90.590	7868.57	4122.99	739.11	4083.65	3240874.66	1162052.99	39°46'30.031"N	104°38'34.868"W	0.33	
12584.00	90.860	88.050	7867.16	4217.84	740.23	4178.62	3240969.62	1162055.02	39°46'30.042"N	104°38'33.651"W	2.67	
12678.00	90.830	90.510	7865.78	4311.69	741.41	4272.60	3241063.58	1162057.09	39°46'30.054"N	104°38'32.448"W	2.62	
12773.00	90.860	93.060	7864.38	4406.24	738.45	4367.53	3241158.54	1162055.04	39°46'30.024"N	104°38'31.232"W	2.68	
12867.00	90.770	95.480	7863.04	4499.31	731.46	4461.26	3241252.32	1162048.93	39°46'29.955"N	104°38'30.032"W	2.58	
12961.00	90.830	90.190	7861.73	4592.65	726.81	4555.10	3241346.20	1162045.17	39°46'29.909"N	104°38'28.830"W	5.63	
13056.00	90.920	92.290	7860.27	4687.28	724.75	4650.06	3241441.18	1162044.02	39°46'29.888"N	104°38'27.613"W	2.21	
13152.00	90.920	100.020	7858.73	4781.77	714.47	4745.42	3241536.63	1162034.64	39°46'29.786"N	104°38'26.392"W	8.05	
13247.00	90.950	102.620	7857.18	4873.50	695.83	4838.55	3241629.94	1162016.89	39°46'29.602"N	104°38'25.199"W	2.74	
13341.00	90.890	99.070	7855.67	4964.45	678.15	4930.85	3241722.39	1162000.08	39°46'29.427"N	104°38'24.017"W	3.78	
13435.00	90.890	90.470	7854.21	5057.33	670.34	5024.42	3241816.04	1161993.16	39°46'29.350"N	104°38'22.819"W	9.15	
13530.00	90.920	88.560	7852.71	5152.16	671.14	5119.40	3241911.01	1161994.87	39°46'29.358"N	104°38'21.602"W	2.01	
13624.00	90.950	87.470	7851.17	5246.10	674.40	5213.33	3242004.90	1161999.02	39°46'29.389"N	104°38'20.399"W	1.16	
13719.00	90.890	87.580	7849.65	5341.07	678.50	5308.23	3242099.75	1162004.02	39°46'29.430"N	104°38'19.184"W	0.13	
13814.00	90.860	88.380	7848.20	5436.01	681.85	5403.16	3242194.65	1162008.27	39°46'29.463"N	104°38'17.968"W	0.84	
13908.00	90.890	89.690	7846.76	5529.89	683.43	5497.13	3242288.60	1162010.75	39°46'29.478"N	104°38'16.764"W	1.39	
14003.00	90.920	89.600	7845.26	5624.72	684.02	5592.12	3242383.57	1162012.24	39°46'29.484"N	104°38'15.548"W	0.10	
14098.00	90.830	90.860	7843.81	5719.48	683.64	5687.11	3242478.56	1162012.76	39°46'29.480"N	104°38'14.331"W	1.33	
14192.00	90.250	92.190	7842.92	5813.08	681.14	5781.07	3242572.54	1162011.15	39°46'29.455"N	104°38'13.128"W	1.54	
14286.00	90.430	91.920	7842.37	5906.60	677.77	5875.00	3242666.50	1162008.67	39°46'29.421"N	104°38'11.925"W	0.35	
14381.00	90.400	95.310	7841.68	6000.80	671.78	5969.80	3242761.35	1162003.58	39°46'29.362"N	104°38'10.711"W	3.57	
14475.00	90.310	94.180	7841.10	6093.78	664.00	6063.47	3242855.09	1161996.70	39°46'29.285"N	104°38'09.511"W	1.21	
14570.00	90.220	92.020	7840.66	6188.10	658.86	6158.33	3242949.99	1161992.46	39°46'29.234"N	104°38'08.296"W	2.28	
14664.00	90.000	88.720	7840.48	6281.85	658.26	6252.31	3243043.98	1161992.75	39°46'29.228"N	104°38'07.092"W	3.52	
14759.00	90.250	82.600	7840.27	6376.79	665.44	6347.00	3243138.58	1162000.83	39°46'29.298"N	104°38'05.880"W	6.45	
14853.00	90.460	89.100	7839.69	6470.74	672.24	6440.70	3243232.22	1162008.52	39°46'29.365"N	104°38'04.680"W	6.92	

Actual Wellpath Report

BEAR #3-65 22-23 3BH AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	BURLINGTON RESOURCES	Slot	SLOT#03 BEAR #3-65 22-23 3BH (1440'FSL & 533'FWL, SEC.22)
Area	COLORADO	Well	BEAR #3-65 22-23 3BH
Field	ADAMS COUNTY (NAD83/TN)	Wellbore	BEAR #3-65 22-23 3BH AWB
Facility	SEC.22-T03S-R65W		

WELLPATH DATA (171 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
14948.00	90.220	95.340	7839.12	6565.18	668.56	6535.58	3243327.13	1162005.75	39°46'29.329"N	104°38'03.465"W	6.57	
15042.00	89.750	91.100	7839.15	6658.47	663.28	6629.41	3243421.00	1162001.36	39°46'29.276"N	104°38'02.263"W	4.54	
15136.00	90.180	88.200	7839.20	6752.30	663.86	6723.39	3243514.98	1162002.83	39°46'29.282"N	104°38'01.059"W	3.12	
15231.00	90.180	90.260	7838.90	6847.17	665.14	6818.38	3243609.95	1162005.00	39°46'29.294"N	104°37'59.842"W	2.17	
15326.00	90.250	92.120	7838.55	6941.81	663.16	6913.35	3243704.93	1162003.93	39°46'29.274"N	104°37'58.626"W	1.96	
15420.00	90.150	95.000	7838.22	7035.05	657.33	7007.16	3243798.79	1161998.99	39°46'29.216"N	104°37'57.425"W	3.07	
15515.00	90.150	95.870	7837.97	7128.83	648.33	7101.73	3243893.44	1161990.89	39°46'29.127"N	104°37'56.213"W	0.92	
15609.00	90.150	95.950	7837.73	7221.51	638.65	7195.23	3243987.03	1161982.10	39°46'29.031"N	104°37'55.016"W	0.09	
15704.00	90.280	94.970	7837.37	7315.29	629.61	7289.80	3244081.68	1161973.96	39°46'28.942"N	104°37'53.805"W	1.04	
15798.00	90.280	93.930	7836.91	7408.33	622.32	7383.52	3244175.46	1161967.56	39°46'28.869"N	104°37'52.605"W	1.11	
15892.00	90.180	91.790	7836.53	7501.71	617.63	7477.39	3244269.37	1161963.76	39°46'28.823"N	104°37'51.402"W	2.28	
15986.00	90.280	90.050	7836.15	7595.40	616.12	7571.38	3244363.37	1161963.14	39°46'28.808"N	104°37'50.199"W	1.85	
16080.00	90.250	88.460	7835.72	7689.27	617.34	7665.36	3244457.34	1161965.26	39°46'28.819"N	104°37'48.995"W	1.69	
16175.00	90.310	88.240	7835.26	7784.20	620.08	7760.32	3244552.26	1161968.90	39°46'28.846"N	104°37'47.779"W	0.24	
16269.00	90.150	86.660	7834.88	7878.18	624.26	7854.23	3244646.12	1161973.97	39°46'28.887"N	104°37'46.576"W	1.69	
16364.00	90.340	86.800	7834.47	7973.18	629.68	7949.07	3244740.91	1161980.29	39°46'28.940"N	104°37'45.361"W	0.25	
16459.00	90.150	87.560	7834.07	8068.16	634.35	8043.95	3244835.74	1161985.86	39°46'28.986"N	104°37'44.146"W	0.82	
16553.00	90.310	89.440	7833.69	8162.09	636.81	8137.92	3244929.68	1161989.22	39°46'29.010"N	104°37'42.942"W	2.01	
16648.00	90.250	90.690	7833.22	8256.88	636.70	8232.91	3245024.67	1161990.01	39°46'29.009"N	104°37'41.726"W	1.32	
16742.00	90.280	90.110	7832.79	8350.63	636.05	8326.91	3245118.67	1161990.25	39°46'29.002"N	104°37'40.522"W	0.62	
16837.00	90.340	89.280	7832.28	8445.46	636.55	8421.91	3245213.65	1161991.66	39°46'29.007"N	104°37'39.305"W	0.88	
16931.00	90.220	89.250	7831.82	8539.33	637.76	8515.90	3245307.63	1161993.76	39°46'29.018"N	104°37'38.101"W	0.13	
17025.00	90.430	88.990	7831.28	8633.22	639.20	8609.89	3245401.60	1161996.09	39°46'29.032"N	104°37'36.898"W	0.36	
17120.00	90.860	89.600	7830.21	8728.08	640.37	8704.87	3245496.57	1161998.16	39°46'29.044"N	104°37'35.681"W	0.79	
17214.00	90.950	90.310	7828.73	8821.87	640.44	8798.86	3245590.55	1161999.13	39°46'29.044"N	104°37'34.477"W	0.76	
17309.00	90.990	91.040	7827.12	8916.58	639.33	8893.84	3245685.53	1161998.91	39°46'29.033"N	104°37'33.261"W	0.77	
17403.00	90.920	91.020	7825.55	9010.24	637.64	8987.81	3245779.52	1161998.12	39°46'29.016"N	104°37'32.057"W	0.08	
17498.00	91.050	91.700	7823.92	9104.86	635.38	9082.77	3245874.49	1161996.76	39°46'28.993"N	104°37'30.841"W	0.73	
17592.00	90.800	91.550	7822.40	9198.43	632.72	9176.72	3245968.46	1161994.99	39°46'28.966"N	104°37'29.638"W	0.31	
17686.00	90.920	90.400	7820.99	9292.11	631.12	9270.69	3246062.44	1161994.29	39°46'28.950"N	104°37'28.434"W	1.23	
17781.00	90.920	89.360	7819.47	9386.91	631.32	9365.68	3246157.42	1161995.39	39°46'28.952"N	104°37'27.218"W	1.09	
17875.00	90.950	88.830	7817.93	9480.78	632.80	9459.65	3246251.38	1161997.76	39°46'28.966"N	104°37'26.014"W	0.56	
17970.00	90.890	89.510	7816.41	9575.65	634.18	9554.63	3246346.34	1162000.04	39°46'28.979"N	104°37'24.798"W	0.72	
18064.00	90.950	90.730	7814.90	9669.42	633.98	9648.62	3246440.32	1162000.74	39°46'28.977"N	104°37'23.594"W	1.30	
18141.00	90.920	90.630	7813.64	9746.18	633.07	9725.60	3246517.31	1162000.56	39°46'28.968"N	104°37'22.608"W	0.14	LAST BHGE MWD SURVEY
18165.00	90.920	90.630	7813.26	9770.11	632.80	9749.60	3246541.31	1162000.52	39°46'28.965"N	104°37'22.301"W	0.00	PROJECTION TO BIT

HOLE & CASING SECTIONS - Ref Wellbore: BEAR #3-65 22-23 3BH AWB Ref Wellpath: BEAR #3-65 22-23 3BH 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]
9.625in Casing Surface	0.00	2246.00	2246.00	0.00	2245.98	0.00	0.00	-6.16	-2.57
8.75in Open Hole	2258.00	18165.00	15907.00	2257.98	7813.26	-6.22	-2.55	632.80	9749.60
5.5in Casing Production	0.00	18165.00	18165.00	0.00	7813.26	0.00	0.00	632.80	9749.60

REFERENCE WELLPATH IDENTIFICATION			
Operator	BURLINGTON RESOURCES	Slot	SLOT#03 BEAR #3-65 22-23 3BH (1440'FSL & 533'FWL, SEC.22)
Area	COLORADO	Well	BEAR #3-65 22-23 3BH
Field	ADAMS COUNTY (NAD83/TN)	Wellbore	BEAR #3-65 22-23 3BH AWB
Facility	SEC.22-T03S-R65W		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
SEC.22-T03S-R65W	0.00	-63.75	-0.78	3236798.09	1161211.38	39°46'22.100"N	104°39'27.180"W	polygon
SEC.23-T03S-R65W	0.00	-63.75	-0.78	3236798.09	1161211.38	39°46'22.100"N	104°39'27.180"W	polygon
SEC.23-T03S-R65W (325'FEL SETBACK)	7801.00	-63.75	-0.78	3236798.09	1161211.38	39°46'22.100"N	104°39'27.180"W	polygon
BEAR #3-65 22-23 3BH BHL ON PLAT REV-1 (2166'FSL & 325'FEL, SEC.23)	7820.00	634.33	9757.45	3246549.14	1162002.12	39°46'28.980"N	104°37'22.200"W	point
BEAR #3-65 22-23 3BH BPI ON PLAT REV-1 (2166'FSL & 613'FEL, SEC.22)	7922.00	725.51	85.11	3236876.47	1162001.41	39°46'29.900"N	104°39'26.080"W	point

WELLPATH COMPOSITION - Ref Wellbore: BEAR #3-65 22-23 3BH AWB					Ref Wellpath: BEAR #3-65 22-23 3BH AWP	
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment		Wellbore	
0.00	2139.44	Gyrodata standard - Drop gyro or Multi-shot	GYRODATA SURFACE SURVEYS <66.72 - 2139.44>		BEAR #3-65 22-23 3BH AWB	
2139.44	18141.00	BHI AutoTrak Curve (IFR1, Short)	BHGE MONOBORE AUTOTRAK CURVE (IFR1, SHORT) <2139.44 - 18141>		BEAR #3-65 22-23 3BH AWB	
18141.00	18165.00	Blind Drilling (std)	Projection to bit		BEAR #3-65 22-23 3BH AWB	

Actual Wellpath Report

BEAR #3-65 22-23 3BH AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BURLINGTON RESOURCES	Slot	SLOT#03 BEAR #3-65 22-23 3BH (1440'FSL & 533'FWL, SEC.22)
Area	COLORADO	Well	BEAR #3-65 22-23 3BH
Field	ADAMS COUNTY (NAD83/TN)	Wellbore	BEAR #3-65 22-23 3BH AWB
Facility	SEC.22-T03S-R65W		

WELLPATH COMMENTS				
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
2139.44	0.430	190.980	2139.42	TIE INTO SURFACE SURVEYS
2284.00	0.290	143.900	2283.98	FIRST BHGE MWD SURVEY
18141.00	90.920	90.630	7813.64	LAST BHGE MWD SURVEY
18165.00	90.920	90.630	7813.26	PROJECTION TO BIT