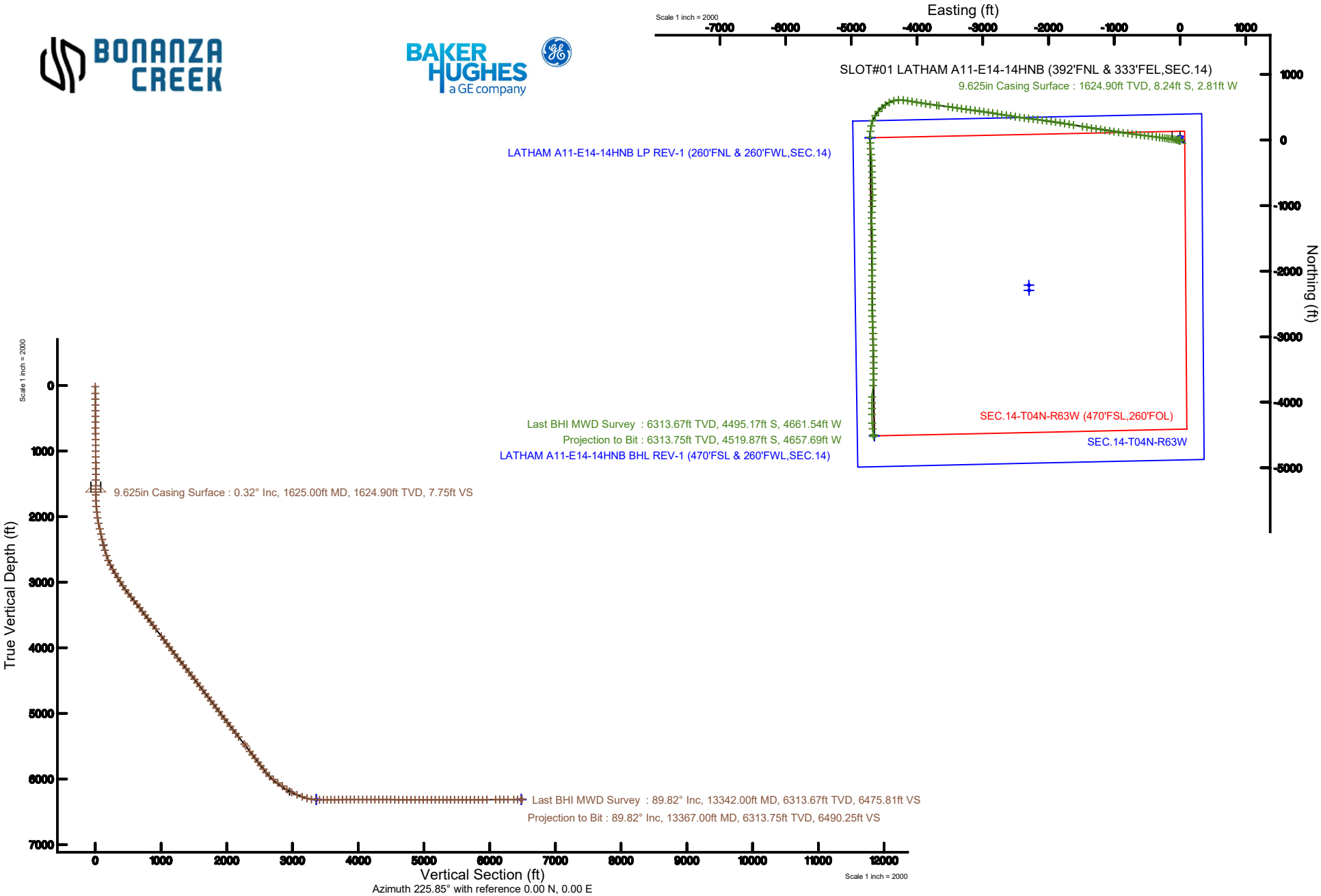


# BONANZA CREEK ENERGY

Location: COLORADO      Slot: SLOT#01 LATHAM A11-E14-14HNB (392°FNL & 333°FEL, SEC.14)  
Field: WELD COUNTY (NAD83/TRUE)      Well: LATHAM A11-E14-14HNB  
Facility: SEC.14-T04N-R63W      Wellbore: LATHAM A11-E14-14HNB PWB  
05-123-49903

Plot reference wellpath is LATHAM A11-E14-14HNB (REV-C.0) PWP	Grid System: NAD83 / Lambert Colorado SP, Northern Zone (501), US feet
True vertical depths are referenced to AKITA 519 (4603.6'GL+17'KB@4620.6') (RKB)	North Reference: True north
Measured depths are referenced to AKITA 519 (4603.6'GL+17'KB@4620.6') (RKB)	Scale: True distance
AKITA 519 (4603.6'GL+17'KB@4620.6') (RKB) to Mean Sea Level: 4620.6 feet	Depths are in feet
Mean Sea Level to Ground level (At Slot: SLOT#01 LATHAM A11-E14-14HNB (392°FNL & 333°FEL, SEC.14)): 0 feet	Created by: doddanna on 2019-07-25
Coordinates are in feet referenced to Slot	Database: WellArchitectDB



# Actual Wellpath Report

LATHAM A11-E14-14HNB AWP

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## REFERENCE WELLPATH IDENTIFICATION

Operator	BONANZA CREEK ENERGY	Slot	SLOT#01 LATHAM A11-E14-14HNB (392'FNL & 333'FEL, SEC.14)
Area	COLORADO	Well	LATHAM A11-E14-14HNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	LATHAM A11-E14-14HNB AWP
Facility	SEC.14-T04N-R63W		

## REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 5.1
North Reference	True	User	Doddanna
Scale	0.999958	Report Generated	7/25/2019 at 1:31:29 PM
Convergence at slot	0.71° East	Database/Source file	WellArchitectDB/LATHAM_A11-E14-14HNB_AWP.xml

## WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-201.26	-152.53	3307539.08	1360938.11	40°19'08.132"N	104°23'49.423"W
Facility Reference Pt			3307689.09	1361141.24	40°19'10.121"N	104°23'47.454"W
Field Reference Pt			3224525.77	1254425.87	40°01'44.400"N	104°41'53.556"W

## WELLPATH DATUM

Calculation method	Minimum curvature	AKITA 519 (4603.6'GL+17'KB@4620.6') (RKB) to Facility Vertical Datum	4620.60ft
Horizontal Reference Pt	Slot	AKITA 519 (4603.6'GL+17'KB@4620.6') (RKB) to Mean Sea Level	4620.60ft
Vertical Reference Pt	AKITA 519 (4603.6'GL+17'KB@4620.6') (RKB)	AKITA 519 (4603.6'GL+17'KB@4620.6') (RKB) to Ground Level at Slot (SLOT#01 LATHAM A11-E14-14HNB (392'FNL & 333'FEL, SEC.14))	4620.60ft
MD Reference Pt	AKITA 519 (4603.6'GL+17'KB@4620.6') (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	225.85°

# Actual Wellpath Report

LATHAM A11-E14-14HNB AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK ENERGY	Slot	SLOT#01 LATHAM A11-E14-14HNB (392'FNL & 333'FEL, SEC.14)
Area	COLORADO	Well	LATHAM A11-E14-14HNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	LATHAM A11-E14-14HNB AWB
Facility	SEC.14-T04N-R63W		

## WELLPATH DATA (151 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
0.00†	0.000	283.270	0.00	0.00	0.00	0.00	40°19'08.132"N	104°23'49.423"W	0.00	
17.00	0.000	283.270	17.00	0.00	0.00	0.00	40°19'08.132"N	104°23'49.423"W	0.00	
121.00	1.260	283.270	120.99	0.62	0.26	-1.11	40°19'08.135"N	104°23'49.438"W	1.21	
209.00	1.330	296.170	208.97	1.48	0.93	-2.97	40°19'08.141"N	104°23'49.462"W	0.34	
297.00	0.560	287.500	296.96	2.03	1.51	-4.30	40°19'08.147"N	104°23'49.479"W	0.89	
384.00	0.590	152.070	383.95	2.36	1.25	-4.49	40°19'08.145"N	104°23'49.481"W	1.22	
472.00	0.580	159.290	471.95	2.66	0.43	-4.12	40°19'08.136"N	104°23'49.476"W	0.08	
558.00	0.650	158.770	557.95	3.02	-0.43	-3.79	40°19'08.128"N	104°23'49.472"W	0.08	
647.00	0.470	179.100	646.94	3.47	-1.27	-3.60	40°19'08.120"N	104°23'49.470"W	0.30	
736.00	0.650	182.540	735.94	4.09	-2.14	-3.62	40°19'08.111"N	104°23'49.470"W	0.21	
824.00	0.750	192.790	823.93	4.93	-3.20	-3.77	40°19'08.101"N	104°23'49.472"W	0.18	
912.00	0.830	183.250	911.92	5.88	-4.40	-3.93	40°19'08.089"N	104°23'49.474"W	0.17	
1001.00	0.530	170.640	1000.92	6.59	-5.44	-3.90	40°19'08.078"N	104°23'49.474"W	0.37	
1088.00	0.470	202.860	1087.91	7.15	-6.17	-3.98	40°19'08.071"N	104°23'49.475"W	0.33	
1177.00	0.770	221.480	1176.91	8.08	-6.96	-4.52	40°19'08.063"N	104°23'49.481"W	0.40	
1267.00	0.660	130.490	1266.90	8.64	-7.74	-4.52	40°19'08.056"N	104°23'49.482"W	1.14	
1354.00	0.220	95.810	1353.90	8.48	-8.09	-3.97	40°19'08.052"N	104°23'49.475"W	0.57	
1442.00	0.280	67.330	1441.90	8.18	-8.02	-3.61	40°19'08.053"N	104°23'49.470"W	0.15	
1529.00	0.330	90.650	1528.90	7.80	-7.94	-3.16	40°19'08.054"N	104°23'49.464"W	0.15	
1581.00	0.290	141.210	1580.90	7.71	-8.05	-2.93	40°19'08.053"N	104°23'49.461"W	0.51	
1670.00	0.360	164.890	1669.90	7.86	-8.49	-2.72	40°19'08.048"N	104°23'49.458"W	0.17	
1758.00	2.470	284.180	1757.87	8.99	-8.29	-4.48	40°19'08.050"N	104°23'49.481"W	3.03	
1845.00	7.580	277.210	1844.51	13.56	-7.11	-12.00	40°19'08.062"N	104°23'49.578"W	5.90	
1934.00	11.610	283.410	1932.25	22.04	-4.30	-26.54	40°19'08.090"N	104°23'49.766"W	4.67	
2022.00	16.470	282.660	2017.59	33.62	0.49	-47.34	40°19'08.137"N	104°23'50.034"W	5.53	
2110.00	19.870	281.130	2101.19	48.98	6.11	-74.19	40°19'08.193"N	104°23'50.381"W	3.90	
2199.00	20.940	276.390	2184.61	67.70	10.80	-104.84	40°19'08.239"N	104°23'50.777"W	2.21	
2287.00	20.850	276.630	2266.83	87.60	14.36	-136.02	40°19'08.274"N	104°23'51.179"W	0.14	
2375.00	21.010	278.360	2349.02	107.11	18.46	-167.18	40°19'08.315"N	104°23'51.582"W	0.73	
2463.00	20.810	277.790	2431.22	126.35	22.88	-198.28	40°19'08.358"N	104°23'51.983"W	0.32	

# Actual Wellpath Report

LATHAM A11-E14-14HNB AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK ENERGY	Slot	SLOT#01 LATHAM A11-E14-14HNB (392'FNL & 333'FEL, SEC.14)
Area	COLORADO	Well	LATHAM A11-E14-14HNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	LATHAM A11-E14-14HNB AWP
Facility	SEC.14-T04N-R63W		

WELLPATH DATA (151 stations)										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
2551.00	22.460	277.980	2513.02	146.31	27.33	-230.42	40°19'08.402"N	104°23'52.398"W	1.88	
2639.00	27.270	276.930	2592.84	169.31	32.10	-267.10	40°19'08.449"N	104°23'52.871"W	5.49	
2726.00	33.790	277.750	2667.74	196.79	37.77	-310.90	40°19'08.505"N	104°23'53.437"W	7.51	
2814.00	39.500	278.350	2738.32	228.95	45.14	-362.88	40°19'08.578"N	104°23'54.108"W	6.50	
2902.00	43.170	277.350	2804.38	264.75	53.06	-420.45	40°19'08.656"N	104°23'54.851"W	4.24	
2989.00	43.960	276.270	2867.42	302.52	60.17	-479.98	40°19'08.727"N	104°23'55.620"W	1.25	
3077.00	44.070	276.800	2930.71	341.26	67.12	-540.73	40°19'08.795"N	104°23'56.404"W	0.44	
3165.00	44.240	277.420	2993.85	379.62	74.71	-601.56	40°19'08.870"N	104°23'57.189"W	0.53	
3253.00	46.250	276.990	3055.80	418.65	82.55	-663.56	40°19'08.948"N	104°23'57.990"W	2.31	
3340.00	49.160	276.860	3114.34	459.09	90.30	-727.43	40°19'09.024"N	104°23'58.814"W	3.35	
3429.00	50.750	277.370	3171.60	501.72	98.74	-795.04	40°19'09.108"N	104°23'59.687"W	1.84	
3517.00	51.610	277.170	3226.77	544.48	107.42	-863.05	40°19'09.194"N	104°24'00.565"W	0.99	
3606.00	52.220	278.120	3281.66	587.81	116.74	-932.48	40°19'09.286"N	104°24'01.461"W	1.08	
3695.00	52.170	277.720	3336.22	631.03	126.43	-1002.12	40°19'09.381"N	104°24'02.361"W	0.36	
3784.00	52.250	277.340	3390.76	674.65	135.65	-1071.85	40°19'09.472"N	104°24'03.261"W	0.35	
3872.00	52.370	280.320	3444.57	716.57	146.34	-1140.65	40°19'09.578"N	104°24'04.149"W	2.68	
3959.00	52.230	279.600	3497.77	756.93	158.24	-1208.45	40°19'09.696"N	104°24'05.024"W	0.67	
4047.00	52.100	277.340	3551.75	799.12	168.48	-1277.18	40°19'09.797"N	104°24'05.912"W	2.03	
4136.00	52.330	280.260	3606.29	841.49	179.24	-1346.68	40°19'09.903"N	104°24'06.809"W	2.61	
4224.00	52.220	280.110	3660.13	882.08	191.55	-1415.19	40°19'10.025"N	104°24'07.693"W	0.18	
4311.00	52.110	280.550	3713.50	922.00	203.87	-1482.78	40°19'10.146"N	104°24'08.566"W	0.42	
4487.00	51.210	279.080	3822.68	1003.21	227.41	-1618.80	40°19'10.379"N	104°24'10.322"W	0.83	
4576.00	51.570	280.410	3878.22	1044.19	239.18	-1687.34	40°19'10.495"N	104°24'11.207"W	1.24	
4663.00	51.550	279.680	3932.31	1084.06	251.07	-1754.43	40°19'10.613"N	104°24'12.073"W	0.66	
4752.00	51.550	279.200	3987.65	1125.43	262.50	-1823.19	40°19'10.726"N	104°24'12.961"W	0.42	
4840.00	51.640	278.910	4042.32	1166.74	273.35	-1891.29	40°19'10.833"N	104°24'13.840"W	0.28	
4929.00	51.600	278.610	4097.57	1208.82	283.98	-1960.24	40°19'10.938"N	104°24'14.730"W	0.27	
5016.00	51.420	275.690	4151.73	1251.39	292.46	-2027.80	40°19'11.021"N	104°24'15.602"W	2.64	
5105.00	51.590	277.230	4207.13	1295.59	300.29	-2097.01	40°19'11.099"N	104°24'16.496"W	1.37	
5192.00	51.370	276.390	4261.31	1338.47	308.37	-2164.60	40°19'11.178"N	104°24'17.368"W	0.80	

# Actual Wellpath Report

LATHAM A11-E14-14HNB AWP

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**BAKER  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK ENERGY	Slot	SLOT#01 LATHAM A11-E14-14HNB (392'FNL & 333'FEL, SEC.14)
Area	COLORADO	Well	LATHAM A11-E14-14HNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	LATHAM A11-E14-14HNB AWB
Facility	SEC.14-T04N-R63W		

WELLPATH DATA (151 stations)										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
5280.00	51.420	276.840	4316.22	1381.97	316.29	-2232.91	40°19'11.257"N	104°24'18.250"W	0.40	
5369.00	51.500	277.030	4371.67	1425.70	324.69	-2302.01	40°19'11.340"N	104°24'19.142"W	0.19	
5455.00	51.540	278.130	4425.18	1467.40	333.57	-2368.74	40°19'11.427"N	104°24'20.004"W	1.00	
5543.00	51.520	279.100	4479.93	1509.09	343.89	-2436.86	40°19'11.529"N	104°24'20.883"W	0.86	
5632.00	51.510	278.930	4535.32	1550.86	354.81	-2505.67	40°19'11.637"N	104°24'21.772"W	0.15	
5720.00	51.480	279.030	4590.10	1592.19	365.56	-2573.69	40°19'11.743"N	104°24'22.650"W	0.10	
5808.00	51.730	278.730	4644.76	1633.67	376.21	-2641.83	40°19'11.848"N	104°24'23.530"W	0.39	
5896.00	51.550	279.240	4699.37	1675.07	386.98	-2709.99	40°19'11.955"N	104°24'24.409"W	0.50	
5985.00	51.590	278.640	4754.69	1716.94	397.82	-2778.86	40°19'12.062"N	104°24'25.299"W	0.53	
6073.00	51.750	279.260	4809.27	1758.40	408.56	-2847.05	40°19'12.168"N	104°24'26.179"W	0.58	
6160.00	51.460	279.590	4863.30	1798.89	419.72	-2914.32	40°19'12.278"N	104°24'27.047"W	0.45	
6249.00	50.950	276.820	4919.07	1841.24	429.63	-2982.96	40°19'12.376"N	104°24'27.934"W	2.49	
6337.00	50.720	279.260	4974.65	1883.07	439.16	-3050.51	40°19'12.470"N	104°24'28.806"W	2.17	
6424.00	50.970	277.260	5029.59	1924.23	448.85	-3117.27	40°19'12.566"N	104°24'29.668"W	1.81	
6513.00	51.480	277.830	5085.33	1967.24	457.97	-3186.05	40°19'12.656"N	104°24'30.556"W	0.76	
6602.00	51.270	277.500	5140.88	2010.22	467.24	-3254.96	40°19'12.747"N	104°24'31.445"W	0.37	
6689.00	51.460	277.730	5195.20	2052.29	476.25	-3322.32	40°19'12.836"N	104°24'32.315"W	0.30	
6776.00	51.740	278.280	5249.24	2094.12	485.74	-3389.84	40°19'12.930"N	104°24'33.186"W	0.59	
6865.00	51.770	278.480	5304.33	2136.65	495.93	-3458.99	40°19'13.030"N	104°24'34.079"W	0.18	
6954.00	51.980	278.190	5359.28	2179.29	506.08	-3528.26	40°19'13.131"N	104°24'34.974"W	0.35	
7129.00	51.880	274.850	5467.21	2266.59	521.72	-3665.11	40°19'13.285"N	104°24'36.740"W	1.50	
7176.00	50.330	276.950	5496.72	2290.08	525.47	-3701.49	40°19'13.322"N	104°24'37.210"W	4.79	
7306.00	51.550	280.410	5578.65	2351.04	540.73	-3801.24	40°19'13.473"N	104°24'38.498"W	2.27	
7393.00	51.740	278.400	5632.64	2391.57	551.87	-3868.54	40°19'13.583"N	104°24'39.367"W	1.82	
7482.00	52.020	279.320	5687.58	2433.70	562.66	-3937.72	40°19'13.689"N	104°24'40.260"W	0.87	
7570.00	51.460	279.250	5742.07	2474.86	573.81	-4005.92	40°19'13.799"N	104°24'41.140"W	0.64	
7659.00	51.790	279.740	5797.33	2516.23	585.32	-4074.73	40°19'13.913"N	104°24'42.029"W	0.57	
7746.00	51.870	277.450	5851.10	2557.63	595.54	-4142.35	40°19'14.014"N	104°24'42.902"W	2.07	
7834.00	51.980	278.610	5905.37	2600.11	605.22	-4210.95	40°19'14.109"N	104°24'43.787"W	1.05	
7923.00	54.950	266.740	5958.47	2648.99	608.40	-4282.16	40°19'14.141"N	104°24'44.707"W	11.21	

# Actual Wellpath Report

LATHAM A11-E14-14HNB AWP

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**BAKER  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK ENERGY	Slot	SLOT#01 LATHAM A11-E14-14HNB (392'FNL & 333'FEL, SEC.14)
Area	COLORADO	Well	LATHAM A11-E14-14HNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	LATHAM A11-E14-14HNB AWB
Facility	SEC.14-T04N-R63W		

## WELLPATH DATA (151 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
8011.00	55.610	253.850	6008.73	2708.46	596.22	-4353.20	40°19'14.020"N	104°24'45.624"W	12.05	
8100.00	55.140	242.490	6059.41	2776.02	569.08	-4421.01	40°19'13.752"N	104°24'46.499"W	10.51	
8186.00	54.820	234.450	6108.82	2844.65	532.30	-4480.97	40°19'13.388"N	104°24'47.273"W	7.66	
8274.00	54.590	227.110	6159.71	2916.13	486.95	-4536.55	40°19'12.940"N	104°24'47.991"W	6.81	
8360.00	63.830	220.360	6203.72	2989.80	433.53	-4587.37	40°19'12.412"N	104°24'48.647"W	12.68	
8449.00	68.390	213.530	6239.79	3070.10	368.51	-4636.16	40°19'11.769"N	104°24'49.276"W	8.69	
8538.00	70.260	200.860	6271.33	3148.77	294.61	-4674.07	40°19'11.039"N	104°24'49.766"W	13.48	
8625.00	77.190	191.130	6295.75	3220.99	214.45	-4696.92	40°19'10.247"N	104°24'50.060"W	13.36	
8713.00	84.910	184.810	6309.44	3289.48	128.47	-4708.90	40°19'09.397"N	104°24'50.215"W	11.28	
8802.00	87.690	178.810	6315.19	3353.28	39.75	-4711.70	40°19'08.521"N	104°24'50.251"W	7.42	
8889.00	89.630	178.410	6317.22	3412.32	-47.20	-4709.59	40°19'07.661"N	104°24'50.223"W	2.28	
8977.00	90.310	176.960	6317.27	3471.01	-135.12	-4706.04	40°19'06.793"N	104°24'50.177"W	1.82	
9065.00	90.220	175.340	6316.86	3527.92	-222.92	-4700.13	40°19'05.925"N	104°24'50.101"W	1.84	
9153.00	90.310	175.270	6316.46	3583.83	-310.62	-4692.92	40°19'05.058"N	104°24'50.008"W	0.13	
9241.00	90.180	177.730	6316.08	3641.15	-398.45	-4687.55	40°19'04.190"N	104°24'49.938"W	2.80	
9329.00	90.250	179.440	6315.75	3700.86	-486.42	-4685.38	40°19'03.321"N	104°24'49.910"W	1.94	
9418.00	90.550	179.390	6315.13	3762.19	-575.41	-4684.47	40°19'02.442"N	104°24'49.898"W	0.34	
9505.00	90.400	177.380	6314.41	3821.00	-662.37	-4682.02	40°19'01.582"N	104°24'49.866"W	2.32	
9594.00	89.880	177.940	6314.19	3880.33	-751.30	-4678.39	40°19'00.704"N	104°24'49.819"W	0.86	
9682.00	90.030	179.280	6314.26	3940.07	-839.27	-4676.25	40°18'59.834"N	104°24'49.791"W	1.53	
9770.00	90.090	182.980	6314.17	4002.58	-927.24	-4677.99	40°18'58.965"N	104°24'49.813"W	4.21	
9858.00	89.970	183.240	6314.12	4067.21	-1015.11	-4682.76	40°18'58.097"N	104°24'49.875"W	0.33	
9947.00	89.910	181.780	6314.21	4131.93	-1104.02	-4686.66	40°18'57.218"N	104°24'49.925"W	1.64	
10035.00	89.940	182.000	6314.33	4195.27	-1191.97	-4689.56	40°18'56.349"N	104°24'49.962"W	0.25	
10122.00	89.820	176.700	6314.51	4255.13	-1278.93	-4688.57	40°18'55.490"N	104°24'49.949"W	6.09	
10210.00	90.120	176.400	6314.56	4312.51	-1366.78	-4683.28	40°18'54.622"N	104°24'49.880"W	0.48	
10299.00	90.060	179.650	6314.42	4372.25	-1455.71	-4680.21	40°18'53.743"N	104°24'49.841"W	3.65	
10387.00	89.850	180.530	6314.49	4433.64	-1543.71	-4680.35	40°18'52.873"N	104°24'49.842"W	1.03	
10474.00	89.540	180.510	6314.95	4494.80	-1630.70	-4681.14	40°18'52.014"N	104°24'49.852"W	0.36	
10562.00	89.570	179.630	6315.63	4556.17	-1718.70	-4681.25	40°18'51.144"N	104°24'49.853"W	1.00	

# Actual Wellpath Report

LATHAM A11-E14-14HNB AWP

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**BAKER  
HUGHES**

REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK ENERGY	Slot	SLOT#01 LATHAM A11-E14-14HNB (392'FNL & 333'FEL, SEC.14)
Area	COLORADO	Well	LATHAM A11-E14-14HNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	LATHAM A11-E14-14HNB AWP
Facility	SEC.14-T04N-R63W		

## WELLPATH DATA (151 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
10650.00	89.510	179.120	6316.34	4616.76	-1806.69	-4680.29	40°18'50.274"N	104°24'49.841"W	0.58	
10739.00	89.600	180.140	6317.03	4678.33	-1895.69	-4679.71	40°18'49.395"N	104°24'49.833"W	1.15	
10827.00	89.570	181.430	6317.67	4740.48	-1983.67	-4680.92	40°18'48.526"N	104°24'49.849"W	1.47	
10915.00	89.970	182.310	6318.02	4803.80	-2071.63	-4683.79	40°18'47.656"N	104°24'49.885"W	1.10	
11004.00	89.910	180.940	6318.12	4867.57	-2160.59	-4686.31	40°18'46.777"N	104°24'49.918"W	1.54	
11092.00	89.970	180.780	6318.21	4929.80	-2248.58	-4687.63	40°18'45.908"N	104°24'49.935"W	0.19	
11178.00	89.940	179.540	6318.27	4989.87	-2334.58	-4687.87	40°18'45.058"N	104°24'49.937"W	1.44	
11266.00	89.880	179.290	6318.41	5050.51	-2422.57	-4686.97	40°18'44.188"N	104°24'49.926"W	0.29	
11355.00	90.220	179.550	6318.34	5111.85	-2511.57	-4686.07	40°18'43.309"N	104°24'49.914"W	0.48	
11444.00	90.090	179.520	6318.09	5173.32	-2600.56	-4685.35	40°18'42.430"N	104°24'49.904"W	0.15	
11531.00	90.030	178.120	6318.00	5232.61	-2687.54	-4683.56	40°18'41.570"N	104°24'49.881"W	1.61	
11619.00	89.940	176.500	6318.03	5290.87	-2775.44	-4679.43	40°18'40.702"N	104°24'49.827"W	1.84	
11706.00	89.970	176.770	6318.09	5347.70	-2862.29	-4674.32	40°18'39.843"N	104°24'49.761"W	0.31	
11794.00	90.030	176.610	6318.09	5405.24	-2950.15	-4669.24	40°18'38.975"N	104°24'49.695"W	0.19	
11883.00	90.120	178.750	6317.98	5464.59	-3039.07	-4665.64	40°18'38.096"N	104°24'49.649"W	2.41	
11972.00	90.310	179.480	6317.64	5525.58	-3128.06	-4664.27	40°18'37.217"N	104°24'49.631"W	0.85	
12060.00	90.090	177.930	6317.34	5585.43	-3216.03	-4662.28	40°18'36.348"N	104°24'49.605"W	1.78	
12148.00	90.060	177.520	6317.22	5644.16	-3303.96	-4658.78	40°18'35.479"N	104°24'49.560"W	0.47	
12238.00	90.000	181.540	6317.17	5706.30	-3393.94	-4658.05	40°18'34.590"N	104°24'49.550"W	4.47	
12325.00	90.680	181.850	6316.66	5768.72	-3480.90	-4660.62	40°18'33.730"N	104°24'49.583"W	0.86	
12412.00	90.030	178.340	6316.12	5829.40	-3567.88	-4660.76	40°18'32.871"N	104°24'49.584"W	4.10	
12501.00	89.970	182.490	6316.12	5891.84	-3656.86	-4661.41	40°18'31.992"N	104°24'49.593"W	4.66	
12588.00	90.490	186.390	6315.77	5957.07	-3743.58	-4668.14	40°18'31.135"N	104°24'49.679"W	4.52	
12765.00	90.280	184.290	6314.58	6091.62	-3919.80	-4684.61	40°18'29.393"N	104°24'49.891"W	1.19	
12853.00	90.060	177.890	6314.32	6154.07	-4007.74	-4686.29	40°18'28.524"N	104°24'49.913"W	7.28	
12942.00	90.490	180.870	6313.89	6215.36	-4096.72	-4685.32	40°18'27.645"N	104°24'49.900"W	3.38	
13032.00	90.120	179.250	6313.41	6278.10	-4186.72	-4685.42	40°18'26.756"N	104°24'49.901"W	1.85	
13164.00	89.940	179.000	6313.34	6368.58	-4318.70	-4683.40	40°18'25.451"N	104°24'49.875"W	0.23	
13252.00	89.910	170.860	6313.46	6424.01	-4406.28	-4675.63	40°18'24.586"N	104°24'49.774"W	9.25	
13342.00	89.820	171.130	6313.67	6475.81	-4495.17	-4661.54	40°18'23.708"N	104°24'49.592"W	0.32	Last BHI MWD Survey

# Actual Wellpath Report

LATHAM A11-E14-14HNB AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK ENERGY	Slot	SLOT#01 LATHAM A11-E14-14HNB (392'FNL & 333'FEL, SEC.14)
Area	COLORADO	Well	LATHAM A11-E14-14HNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	LATHAM A11-E14-14HNB AWB
Facility	SEC.14-T04N-R63W		

WELLPATH DATA (151 stations)										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
13367.00	89.820	171.130	6313.75	6490.25	-4519.87	-4657.69	40°18'23.463"N	104°24'49.542"W	0.00	Projection to Bit

HOLE & CASING SECTIONS										
- Ref Wellbore: LATHAM A11-E14-14HNB AWB					Ref Wellpath: LATHAM A11-E14-14HNB 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	17.00	1625.00	1608.00	17.00	1624.90	0.00	0.00	-8.24	-2.81	

TARGETS									
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape	
LATHAM A11-E14-14HNB BHL PLAT (470'FSL & 260'FWL, SEC.14)	6310.60	-4513.25	-4649.82	3302945.96	1356367.57	40°18'23.529"N	104°24'49.441"W	point	
LATHAM A11-E14-14HNB LP PLAT (260'FNL & 260'FWL, SEC.14)	6310.60	31.63	-4715.61	3302823.65	1360911.08	40°19'08.440"N	104°24'50.301"W	point	
LATHAM A11-E14-14HNB BHL REV-1 (470'FSL & 260'FWL, SEC.14)	6316.00	-4513.24	-4649.82	3302945.95	1356367.58	40°18'23.529"N	104°24'49.441"W	point	
LATHAM A11-E14-14HNB LP REV-1 (260'FNL & 260'FWL, SEC.14)	6316.00	31.60	-4715.59	3302823.68	1360911.05	40°19'08.440"N	104°24'50.301"W	point	
SEC.14-T04N-R63W (470'FSL, 260'FOL)	16619.60	-2214.96	-2297.14	3305269.76	1358694.84	40°18'46.243"N	104°24'19.076"W	polygon	
SEC.14-T04N-R63W	16620.60	-2293.94	-2295.95	3305271.94	1358615.89	40°18'45.463"N	104°24'19.061"W	polygon	

# Actual Wellpath Report

LATHAM A11-E14-14HNB AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK ENERGY	Slot	SLOT#01 LATHAM A11-E14-14HNB (392'FNL & 333'FEL, SEC.14)
Area	COLORADO	Well	LATHAM A11-E14-14HNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	LATHAM A11-E14-14HNB AWB
Facility	SEC.14-T04N-R63W		

WELLPATH COMPOSITION - Ref Wellbore: LATHAM A11-E14-14HNB AWB      Ref Wellpath: LATHAM A11-E14-14HNB AWP				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
17.00	1581.00	BHI NaviTrak (Rotating)	BHI NAVITRAK MWD 13.5" (ROTATING)<121-1581>	LATHAM A11-E14-14HNB AWB
1581.00	13342.00	BHI AutoTrak Curve (Short)	BHI ATC 8.5" (SHORT)<1670-13342>	LATHAM A11-E14-14HNB AWB
13342.00	13367.00	Blind Drilling (std)	Projection to bit	LATHAM A11-E14-14HNB AWB

# Actual Wellpath Report

LATHAM A11-E14-14HNB AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK ENERGY	Slot	SLOT#01 LATHAM A11-E14-14HNB (392'FNL & 333'FEL, SEC.14)
Area	COLORADO	Well	LATHAM A11-E14-14HNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	LATHAM A11-E14-14HNB AWB
Facility	SEC.14-T04N-R63W		

WELLPATH COMMENTS				
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
13342.00	89.820	171.130	6313.67	Last BHI MWD Survey
13367.00	89.820	171.130	6313.75	Projection to Bit