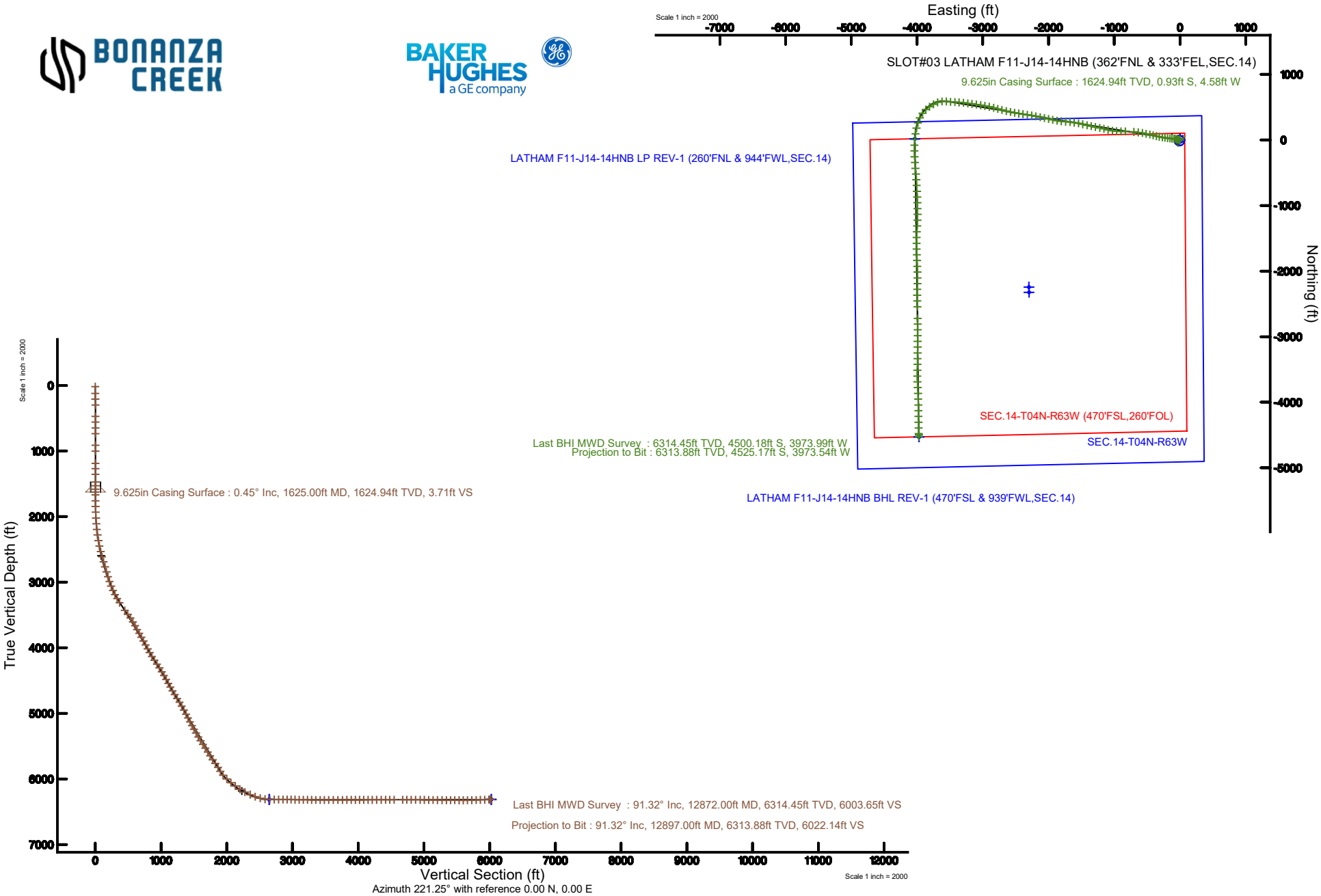


BONANZA CREEK ENERGY

Location: COLORADO Slot: SLOT#03 LATHAM F11-J14-14HNB (362°FNL & 333°FEL,SEC.14)
Field: WELD COUNTY (NAD83/TRUE) Well: LATHAM F11-J14-14HNB
Facility: SEC.14-T04N-R63W Wellbore: LATHAM F11-J14-14HNB PWB
05-123-49899

Plot reference wellpath is LATHAM F11-J14-14HNB (REV-C.0) PWP	Grid System: NAD83 / Lambert Colorado SP, Northern Zone (501), US feet
True vertical depths are referenced to AKITA 519 (4604'GL+17'KB@4621') (RKB)	North Reference: True north
Measured depths are referenced to AKITA 519 (4604'GL+17'KB@4621') (RKB)	Scale: True distance
AKITA 519 (4604'GL+17'KB@4621') (RKB) to Mean Sea Level: 4621 feet	Depths are in feet
Mean Sea Level to Ground level (At Slot: SLOT#03 LATHAM F11-J14-14HNB (362°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 F11-J14-14HNB AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	BONANZA CREEK ENERGY	Slot	SLOT#03 LATHAM F11-J14-14HNB (362'FNL & 333'FEL, SEC.14)
Area	COLORADO	Well	LATHAM F11-J14-14HNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	LATHAM F11-J14-14HNB AWB
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 1:54:23 PM
Convergence at slot	0.71° East	Database/Source file	WellArchitectDB/LATHAM_F11-J14-14HNB_AWP.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-171.28	-152.50	3307538.74	1360968.08	40°19'08.428"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 (4604'GL+17'KB@4621') (RKB) to Facility Vertical Datum	4621.00ft
Horizontal Reference Pt	Slot	AKITA 519 (4604'GL+17'KB@4621') (RKB) to Mean Sea Level	4621.00ft
Vertical Reference Pt	AKITA 519 (4604'GL+17'KB@4621') (RKB)	AKITA 519 (4604'GL+17'KB@4621') (RKB) to Ground Level at Slot (SLOT#03 LATHAM F11-J14-14HNB (362'FNL & 333'FEL, SEC.14))	4621.00ft
MD Reference Pt	AKITA 519 (4604'GL+17'KB@4621') (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	221.25°

Actual Wellpath Report

LATHAM F11-J14-14HNB AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK ENERGY	Slot	SLOT#03 LATHAM F11-J14-14HNB (362'FNL & 333'FEL, SEC.14)
Area	COLORADO	Well	LATHAM F11-J14-14HNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	LATHAM F11-J14-14HNB AWP
Facility	SEC.14-T04N-R63W		

WELLPATH DATA (145 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	284.440	0.00	0.00	0.00	0.00	40°19'08.428"N	104°23'49.423"W	0.00	
17.00	0.000	284.440	17.00	0.00	0.00	0.00	40°19'08.428"N	104°23'49.423"W	0.00	
121.00	0.970	284.440	121.00	0.40	0.22	-0.85	40°19'08.431"N	104°23'49.434"W	0.93	
209.00	0.680	282.160	208.99	0.99	0.52	-2.08	40°19'08.433"N	104°23'49.450"W	0.33	
297.00	0.620	249.290	296.98	1.66	0.46	-3.04	40°19'08.433"N	104°23'49.462"W	0.42	
472.00	0.830	246.810	471.97	3.64	-0.38	-5.09	40°19'08.425"N	104°23'49.489"W	0.12	
558.00	0.480	91.540	557.96	3.97	-0.63	-5.30	40°19'08.422"N	104°23'49.491"W	1.49	
647.00	0.440	53.400	646.96	3.40	-0.44	-4.66	40°19'08.424"N	104°23'49.483"W	0.34	
736.00	0.370	58.740	735.96	2.79	-0.09	-4.14	40°19'08.428"N	104°23'49.476"W	0.09	
912.00	0.380	327.450	911.96	2.09	0.70	-3.96	40°19'08.435"N	104°23'49.474"W	0.30	
1001.00	0.340	330.020	1000.95	1.92	1.18	-4.26	40°19'08.440"N	104°23'49.478"W	0.05	
1187.00	0.460	211.430	1186.95	2.48	1.02	-4.92	40°19'08.438"N	104°23'49.486"W	0.37	
1267.00	0.470	209.480	1266.95	3.12	0.46	-5.25	40°19'08.433"N	104°23'49.491"W	0.02	
1354.00	0.260	232.720	1353.95	3.66	0.03	-5.58	40°19'08.429"N	104°23'49.495"W	0.29	
1473.00	0.350	164.420	1472.95	4.12	-0.48	-5.70	40°19'08.424"N	104°23'49.496"W	0.29	
1529.00	0.340	81.210	1528.95	4.09	-0.62	-5.49	40°19'08.422"N	104°23'49.494"W	0.82	
1581.00	0.780	111.990	1580.94	3.85	-0.73	-5.01	40°19'08.421"N	104°23'49.487"W	1.00	
1670.00	0.150	153.760	1669.94	3.70	-1.06	-4.40	40°19'08.418"N	104°23'49.480"W	0.76	
1758.00	0.070	82.440	1757.94	3.70	-1.16	-4.29	40°19'08.417"N	104°23'49.478"W	0.16	
1845.00	2.150	275.810	1844.92	4.61	-0.99	-5.86	40°19'08.419"N	104°23'49.498"W	2.55	
1933.00	5.130	286.050	1932.73	7.24	0.27	-11.29	40°19'08.431"N	104°23'49.569"W	3.45	
2022.00	7.720	291.760	2021.17	10.93	3.58	-20.66	40°19'08.464"N	104°23'49.690"W	2.99	
2110.00	9.500	285.660	2108.17	16.04	7.74	-33.15	40°19'08.505"N	104°23'49.851"W	2.27	
2198.00	12.000	281.710	2194.62	23.69	11.55	-49.10	40°19'08.543"N	104°23'50.057"W	2.96	
2286.00	14.590	278.010	2280.26	34.28	14.96	-69.04	40°19'08.576"N	104°23'50.314"W	3.10	
2375.00	17.180	276.750	2365.85	47.87	18.06	-93.19	40°19'08.607"N	104°23'50.626"W	2.94	
2463.00	19.730	275.920	2449.32	63.82	21.12	-120.88	40°19'08.637"N	104°23'50.983"W	2.91	
2551.00	22.280	274.560	2531.47	82.38	23.98	-152.29	40°19'08.665"N	104°23'51.389"W	2.95	
2639.00	25.660	276.430	2611.87	103.24	27.44	-187.86	40°19'08.700"N	104°23'51.848"W	3.94	
2725.00	28.400	278.870	2688.47	124.83	32.68	-226.58	40°19'08.751"N	104°23'52.348"W	3.44	

Actual Wellpath Report

LATHAM F11-J14-14HNB AWP

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**BAKER
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REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK ENERGY	Slot	SLOT#03 LATHAM F11-J14-14HNB (362'FNL & 333'FEL, SEC.14)
Area	COLORADO	Well	LATHAM F11-J14-14HNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	LATHAM F11-J14-14HNB AWP
Facility	SEC.14-T04N-R63W		

WELLPATH DATA (145 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
2814.00	30.170	280.430	2766.09	147.62	40.00	-269.49	40°19'08.824"N	104°23'52.902"W	2.17	
2902.00	31.230	280.970	2841.76	170.45	48.34	-313.64	40°19'08.906"N	104°23'53.472"W	1.24	
2989.00	32.760	283.230	2915.54	192.89	58.02	-358.70	40°19'09.002"N	104°23'54.054"W	2.23	
3077.00	36.030	283.700	2988.15	216.05	69.60	-407.03	40°19'09.116"N	104°23'54.678"W	3.73	
3165.00	38.430	283.170	3058.21	240.90	81.97	-458.81	40°19'09.238"N	104°23'55.346"W	2.75	
3253.00	41.750	281.630	3125.53	268.26	94.11	-514.16	40°19'09.358"N	104°23'56.061"W	3.94	
3340.00	44.550	280.260	3188.99	298.30	105.38	-572.57	40°19'09.470"N	104°23'56.815"W	3.39	
3428.00	46.340	276.940	3250.74	332.14	114.73	-634.56	40°19'09.562"N	104°23'57.615"W	3.37	
3517.00	47.620	275.760	3311.46	369.37	121.92	-699.22	40°19'09.633"N	104°23'58.450"W	1.73	
3694.00	48.840	271.430	3429.40	450.02	130.15	-830.92	40°19'09.714"N	104°24'00.150"W	1.95	
3783.00	48.630	269.650	3488.10	493.65	130.78	-897.81	40°19'09.721"N	104°24'01.013"W	1.52	
3871.00	48.180	272.780	3546.53	535.98	132.17	-963.59	40°19'09.734"N	104°24'01.863"W	2.71	
3959.00	47.870	280.450	3605.43	573.12	139.68	-1028.48	40°19'09.808"N	104°24'02.701"W	6.49	
4047.00	48.600	284.990	3664.06	604.44	154.14	-1092.48	40°19'09.951"N	104°24'03.527"W	3.94	
4136.00	48.520	282.230	3722.97	635.39	169.84	-1157.31	40°19'10.106"N	104°24'04.364"W	2.33	
4223.00	48.350	281.280	3780.69	667.43	183.10	-1221.04	40°19'10.237"N	104°24'05.186"W	0.84	
4311.00	48.550	281.320	3839.06	700.31	196.01	-1285.62	40°19'10.365"N	104°24'06.020"W	0.23	
4399.00	48.350	281.320	3897.43	733.17	208.93	-1350.19	40°19'10.493"N	104°24'06.854"W	0.23	
4487.00	48.470	282.620	3955.84	765.36	222.58	-1414.58	40°19'10.628"N	104°24'07.685"W	1.11	
4576.00	48.470	284.640	4014.86	796.25	238.28	-1479.32	40°19'10.783"N	104°24'08.521"W	1.70	
4663.00	48.560	282.150	4072.49	826.70	253.38	-1542.71	40°19'10.932"N	104°24'09.339"W	2.15	
4752.00	48.590	277.590	4131.40	861.43	264.81	-1608.42	40°19'11.045"N	104°24'10.188"W	3.84	
4840.00	48.570	275.330	4189.62	899.08	272.23	-1673.99	40°19'11.118"N	104°24'11.034"W	1.93	
4929.00	48.440	275.050	4248.59	938.32	278.26	-1740.38	40°19'11.178"N	104°24'11.891"W	0.28	
5016.00	48.220	276.210	4306.43	976.17	284.64	-1805.05	40°19'11.240"N	104°24'12.726"W	1.03	
5104.00	47.790	279.350	4365.31	1012.23	293.48	-1869.83	40°19'11.328"N	104°24'13.562"W	2.70	
5192.00	48.470	281.680	4424.05	1045.71	305.45	-1934.25	40°19'11.446"N	104°24'14.394"W	2.12	
5280.00	48.230	282.050	4482.54	1077.98	318.97	-1998.60	40°19'11.580"N	104°24'15.225"W	0.42	
5369.00	48.430	282.210	4541.71	1110.33	332.94	-2063.60	40°19'11.718"N	104°24'16.064"W	0.26	
5455.00	48.630	282.680	4598.66	1141.38	346.82	-2126.53	40°19'11.855"N	104°24'16.876"W	0.47	

Actual Wellpath Report

LATHAM F11-J14-14HNB AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK ENERGY	Slot	SLOT#03 LATHAM F11-J14-14HNB (362'FNL & 333'FEL, SEC.14)
Area	COLORADO	Well	LATHAM F11-J14-14HNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	LATHAM F11-J14-14HNB AWB
Facility	SEC.14-T04N-R63W		

WELLPATH DATA (145 stations)										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
5543.00	48.800	282.060	4656.72	1173.32	360.99	-2191.12	40°19'11.995"N	104°24'17.710"W	0.56	
5631.00	48.800	278.880	4714.69	1207.20	373.02	-2256.21	40°19'12.113"N	104°24'18.551"W	2.72	
5720.00	48.780	277.510	4773.33	1243.72	382.56	-2322.48	40°19'12.208"N	104°24'19.406"W	1.16	
5808.00	48.720	278.250	4831.35	1280.11	391.63	-2388.02	40°19'12.297"N	104°24'20.252"W	0.64	
5896.00	48.150	279.420	4889.74	1315.40	401.74	-2453.07	40°19'12.397"N	104°24'21.092"W	1.19	
5984.00	45.910	281.070	4949.72	1348.58	413.18	-2516.43	40°19'12.510"N	104°24'21.910"W	2.89	
6073.00	45.740	282.680	5011.74	1379.89	426.31	-2578.90	40°19'12.640"N	104°24'22.717"W	1.31	
6160.00	49.050	283.540	5070.63	1410.08	440.84	-2641.25	40°19'12.783"N	104°24'23.522"W	3.87	
6249.00	49.460	284.090	5128.72	1441.15	456.95	-2706.73	40°19'12.942"N	104°24'24.367"W	0.66	
6337.00	49.210	284.390	5186.06	1471.46	473.37	-2771.43	40°19'13.105"N	104°24'25.202"W	0.38	
6424.00	49.080	284.490	5242.97	1501.14	489.77	-2835.15	40°19'13.267"N	104°24'26.025"W	0.17	
6513.00	49.540	282.110	5301.00	1532.77	505.29	-2900.82	40°19'13.420"N	104°24'26.873"W	2.09	
6602.00	49.540	279.470	5358.76	1567.10	517.97	-2967.33	40°19'13.545"N	104°24'27.732"W	2.26	
6689.00	48.910	279.400	5415.58	1601.83	528.77	-3032.32	40°19'13.652"N	104°24'28.571"W	0.73	
6776.00	48.690	278.810	5472.89	1636.66	539.13	-3096.95	40°19'13.754"N	104°24'29.405"W	0.57	
6865.00	48.490	277.500	5531.76	1673.10	548.60	-3163.02	40°19'13.848"N	104°24'30.258"W	1.13	
6953.00	48.510	278.010	5590.07	1709.48	557.49	-3228.33	40°19'13.935"N	104°24'31.101"W	0.43	
7041.00	48.560	276.480	5648.34	1746.35	565.81	-3293.74	40°19'14.017"N	104°24'31.946"W	1.30	
7129.00	48.520	273.940	5706.61	1785.15	571.79	-3359.41	40°19'14.076"N	104°24'32.793"W	2.16	
7217.00	48.590	272.640	5764.86	1825.72	575.58	-3425.26	40°19'14.114"N	104°24'33.644"W	1.11	
7306.00	47.690	275.270	5824.25	1865.89	580.14	-3491.38	40°19'14.159"N	104°24'34.497"W	2.42	
7393.00	46.520	277.600	5883.47	1902.28	587.27	-3554.70	40°19'14.229"N	104°24'35.315"W	2.38	
7482.00	48.630	263.350	5943.68	1945.08	587.67	-3620.07	40°19'14.233"N	104°24'36.159"W	12.04	
7570.00	50.670	250.290	6000.80	1999.48	572.33	-3685.08	40°19'14.081"N	104°24'36.998"W	11.53	
7659.00	52.670	241.490	6056.06	2062.86	543.80	-3748.66	40°19'13.799"N	104°24'37.819"W	8.07	
7746.00	54.140	235.750	6107.95	2129.48	507.42	-3808.23	40°19'13.440"N	104°24'38.588"W	5.56	
7834.00	58.240	227.680	6156.96	2201.29	462.09	-3865.46	40°19'12.992"N	104°24'39.326"W	8.93	
7922.00	62.490	216.780	6200.57	2277.58	405.49	-3916.63	40°19'12.432"N	104°24'39.987"W	11.79	
8011.00	66.370	205.530	6239.07	2356.41	336.89	-3957.95	40°19'11.754"N	104°24'40.520"W	12.20	
8100.00	72.110	195.950	6270.67	2434.17	259.16	-3987.25	40°19'10.986"N	104°24'40.898"W	11.95	

Actual Wellpath Report

LATHAM F11-J14-14HNB AWP

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**BAKER
HUGHES**

REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK ENERGY	Slot	SLOT#03 LATHAM F11-J14-14HNB (362'FNL & 333'FEL, SEC.14)
Area	COLORADO	Well	LATHAM F11-J14-14HNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	LATHAM F11-J14-14HNB AWP
Facility	SEC.14-T04N-R63W		

WELLPATH DATA (145 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
8186.00	76.650	192.510	6293.83	2507.90	178.90	-4007.57	40°19'10.193"N	104°24'41.161"W	6.53	
8274.00	83.490	188.550	6309.00	2582.35	93.75	-4023.37	40°19'09.352"N	104°24'41.364"W	8.95	
8362.00	89.690	185.050	6314.23	2654.73	6.57	-4033.75	40°19'08.490"N	104°24'41.498"W	8.09	
8449.00	90.310	182.080	6314.23	2723.57	-80.25	-4039.16	40°19'07.632"N	104°24'41.568"W	3.49	
8537.00	90.280	179.380	6313.78	2790.46	-168.23	-4040.28	40°19'06.763"N	104°24'41.582"W	3.07	
8625.00	90.030	177.080	6313.54	2854.79	-256.18	-4037.57	40°19'05.894"N	104°24'41.547"W	2.63	
8713.00	89.480	175.570	6313.92	2917.10	-344.00	-4031.93	40°19'05.026"N	104°24'41.474"W	1.83	
8802.00	89.480	174.950	6314.73	2978.93	-432.69	-4024.57	40°19'04.149"N	104°24'41.379"W	0.70	
8889.00	89.320	175.560	6315.64	3039.37	-519.39	-4017.37	40°19'03.293"N	104°24'41.286"W	0.72	
8977.00	89.450	175.980	6316.58	3101.06	-607.14	-4010.88	40°19'02.426"N	104°24'41.202"W	0.50	
9065.00	89.380	177.110	6317.48	3163.60	-694.97	-4005.58	40°19'01.558"N	104°24'41.133"W	1.29	
9153.00	89.480	177.680	6318.36	3227.06	-782.88	-4001.58	40°19'00.689"N	104°24'41.081"W	0.66	
9241.00	89.380	177.230	6319.23	3290.57	-870.79	-3997.67	40°18'59.820"N	104°24'41.031"W	0.52	
9329.00	89.450	178.190	6320.13	3354.36	-958.71	-3994.16	40°18'58.951"N	104°24'40.985"W	1.09	
9418.00	90.060	179.150	6320.51	3419.89	-1047.69	-3992.09	40°18'58.072"N	104°24'40.958"W	1.28	
9505.00	90.060	179.960	6320.42	3484.85	-1134.68	-3991.42	40°18'57.213"N	104°24'40.949"W	0.93	
9594.00	90.250	181.850	6320.18	3552.68	-1223.67	-3992.82	40°18'56.333"N	104°24'40.967"W	2.13	
9682.00	90.090	184.220	6319.92	3621.81	-1311.54	-3997.48	40°18'55.465"N	104°24'41.027"W	2.70	
9770.00	90.120	183.850	6319.76	3691.89	-1399.32	-4003.67	40°18'54.597"N	104°24'41.107"W	0.42	
9858.00	90.120	180.610	6319.57	3760.25	-1487.24	-4007.10	40°18'53.729"N	104°24'41.151"W	3.68	
9947.00	90.220	179.330	6319.31	3827.13	-1576.24	-4007.05	40°18'52.849"N	104°24'41.150"W	1.44	
10035.00	90.060	179.390	6319.09	3892.64	-1664.23	-4006.07	40°18'51.980"N	104°24'41.137"W	0.19	
10122.00	90.030	177.890	6319.02	3956.67	-1751.20	-4004.00	40°18'51.120"N	104°24'41.110"W	1.72	
10210.00	90.000	177.740	6319.00	4020.57	-1839.14	-4000.65	40°18'50.251"N	104°24'41.067"W	0.17	
10299.00	90.090	177.290	6318.93	4084.88	-1928.06	-3996.79	40°18'49.373"N	104°24'41.017"W	0.52	
10387.00	90.150	178.400	6318.75	4148.81	-2015.99	-3993.48	40°18'48.504"N	104°24'40.974"W	1.26	
10474.00	89.970	180.040	6318.66	4213.43	-2102.98	-3992.30	40°18'47.644"N	104°24'40.959"W	1.90	
10562.00	90.030	181.920	6318.66	4280.57	-2190.96	-3993.80	40°18'46.775"N	104°24'40.978"W	2.14	
10650.00	90.150	181.650	6318.52	4348.51	-2278.92	-3996.54	40°18'45.905"N	104°24'41.013"W	0.34	
10738.00	90.280	179.840	6318.19	4415.41	-2366.91	-3997.69	40°18'45.036"N	104°24'41.028"W	2.06	

Actual Wellpath Report

LATHAM F11-J14-14HNB AWP

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**BAKER
HUGHES**

REFERENCE WELLPATH IDENTIFICATION

Operator	BONANZA CREEK ENERGY	Slot	SLOT#03 LATHAM F11-J14-14HNB (362'FNL & 333'FEL, SEC.14)
Area	COLORADO	Well	LATHAM F11-J14-14HNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	LATHAM F11-J14-14HNB AWB
Facility	SEC.14-T04N-R63W		

WELLPATH DATA (145 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
10827.00	90.000	178.560	6317.97	4481.50	-2455.90	-3996.44	40°18'44.157"N	104°24'41.011"W	1.47	
10915.00	90.060	177.650	6317.92	4545.70	-2543.85	-3993.53	40°18'43.287"N	104°24'40.974"W	1.04	
11092.00	89.970	179.480	6317.88	4675.81	-2720.79	-3989.10	40°18'41.539"N	104°24'40.916"W	1.04	
11178.00	90.060	180.390	6317.85	4740.40	-2806.79	-3989.00	40°18'40.689"N	104°24'40.915"W	1.06	
11266.00	90.280	180.720	6317.59	4807.12	-2894.78	-3989.86	40°18'39.820"N	104°24'40.925"W	0.45	
11355.00	89.320	179.840	6317.90	4874.32	-2983.78	-3990.29	40°18'38.940"N	104°24'40.931"W	1.46	
11444.00	89.720	180.970	6318.65	4941.64	-3072.77	-3990.92	40°18'38.061"N	104°24'40.939"W	1.35	
11531.00	89.320	179.430	6319.38	5007.24	-3159.76	-3991.22	40°18'37.201"N	104°24'40.943"W	1.83	
11619.00	89.660	180.770	6320.16	5073.50	-3247.76	-3991.38	40°18'36.332"N	104°24'40.944"W	1.57	
11706.00	89.320	180.880	6320.94	5139.73	-3334.75	-3992.63	40°18'35.472"N	104°24'40.960"W	0.41	
11794.00	89.420	180.630	6321.90	5206.64	-3422.73	-3993.79	40°18'34.603"N	104°24'40.975"W	0.31	
11883.00	89.940	181.010	6322.40	5274.39	-3511.72	-3995.06	40°18'33.723"N	104°24'40.991"W	0.72	
11972.00	89.450	179.940	6322.87	5341.78	-3600.72	-3995.80	40°18'32.844"N	104°24'41.001"W	1.32	
12059.00	89.540	178.350	6323.64	5406.33	-3687.70	-3994.50	40°18'31.984"N	104°24'40.984"W	1.83	
12148.00	89.380	175.780	6324.48	5470.14	-3776.57	-3989.95	40°18'31.106"N	104°24'40.925"W	2.89	
12238.00	89.690	177.750	6325.21	5534.34	-3866.42	-3984.87	40°18'30.218"N	104°24'40.859"W	2.22	
12325.00	89.660	178.580	6325.70	5597.88	-3953.37	-3982.08	40°18'29.359"N	104°24'40.823"W	0.95	
12412.00	91.350	179.170	6324.94	5662.14	-4040.35	-3980.37	40°18'28.499"N	104°24'40.801"W	2.06	
12501.00	91.140	179.670	6323.00	5728.44	-4129.32	-3979.47	40°18'27.620"N	104°24'40.789"W	0.61	
12588.00	91.320	179.390	6321.14	5793.36	-4216.30	-3978.76	40°18'26.761"N	104°24'40.779"W	0.38	
12676.00	91.570	179.160	6318.92	5858.77	-4304.27	-3977.65	40°18'25.891"N	104°24'40.765"W	0.39	
12764.00	91.290	178.870	6316.72	5923.90	-4392.23	-3976.13	40°18'25.022"N	104°24'40.745"W	0.46	
12852.00	91.110	178.840	6314.88	5988.87	-4480.19	-3974.38	40°18'24.153"N	104°24'40.722"W	0.21	
12872.00	91.320	178.960	6314.45	6003.65	-4500.18	-3973.99	40°18'23.955"N	104°24'40.717"W	1.21	Last BHI MWD Survey
12897.00	91.320	178.960	6313.88	6022.14	-4525.17	-3973.54	40°18'23.708"N	104°24'40.711"W	0.00	Projection to Bit

Actual Wellpath Report

LATHAM F11-J14-14HNB AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK ENERGY	Slot	SLOT#03 LATHAM F11-J14-14HNB (362'FNL & 333'FEL,SEC.14)
Area	COLORADO	Well	LATHAM F11-J14-14HNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	LATHAM F11-J14-14HNB AWB
Facility	SEC.14-T04N-R63W		

HOLE & CASING SECTIONS									
- Ref Wellbore: LATHAM F11-J14-14HNB AWB					Ref Wellpath: LATHAM F11-J14-14HNB 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	1624.94	0.00	0.00	-0.93	-4.58

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
LATHAM F11-J14-14HNB BHL PLAT (470'FSL & 939'FWL,SEC.14)	6311.00	-4528.19	-3971.16	3303624.38	1356391.05	40°18'23.679"N	104°24'40.681"W	point
LATHAM F11-J14-14HNB LP PLAT (260'FNL & 944'FWL,SEC.14)	6311.00	16.22	-4031.94	3303507.08	1360934.15	40°19'08.585"N	104°24'41.475"W	point
LATHAM F11-J14-14HNB BHL REV-1 (470'FSL & 939'FWL,SEC.14)	6315.00	-4528.15	-3971.18	3303624.36	1356391.09	40°18'23.679"N	104°24'40.681"W	point
LATHAM F11-J14-14HNB LP REV-1 (260'FNL & 944'FWL,SEC.14)	6315.00	16.18	-4031.95	3303507.08	1360934.11	40°19'08.585"N	104°24'41.475"W	point
SEC.14-T04N-R63W (470'FSL,260'FOL)	16620.00	-2244.94	-2297.17	3305269.76	1358694.84	40°18'46.243"N	104°24'19.076"W	polygon
SEC.14-T04N-R63W	16621.00	-2323.92	-2295.99	3305271.94	1358615.89	40°18'45.463"N	104°24'19.061"W	polygon

WELLPATH COMPOSITION - Ref Wellbore: LATHAM F11-J14-14HNB AWB					Ref Wellpath: LATHAM F11-J14-14HNB 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 F11-J14-14HNB AWB	
1581.00	12872.00	BHI AutoTrak Curve (Short)	BHI ATC 8.5" (SHORT)<1670-12872>		LATHAM F11-J14-14HNB AWB	
12872.00	12897.00	Blind Drilling (std)	Projection to bit		LATHAM F11-J14-14HNB AWB	

Actual Wellpath Report

LATHAM F11-J14-14HNB AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK ENERGY	Slot	SLOT#03 LATHAM F11-J14-14HNB (362'FNL & 333'FEL, SEC.14)
Area	COLORADO	Well	LATHAM F11-J14-14HNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	LATHAM F11-J14-14HNB AWP
Facility	SEC.14-T04N-R63W		

WELLPATH COMMENTS				
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
12872.00	91.320	178.960	6314.45	Last BHI MWD Survey
12897.00	91.320	178.960	6313.88	Projection to Bit