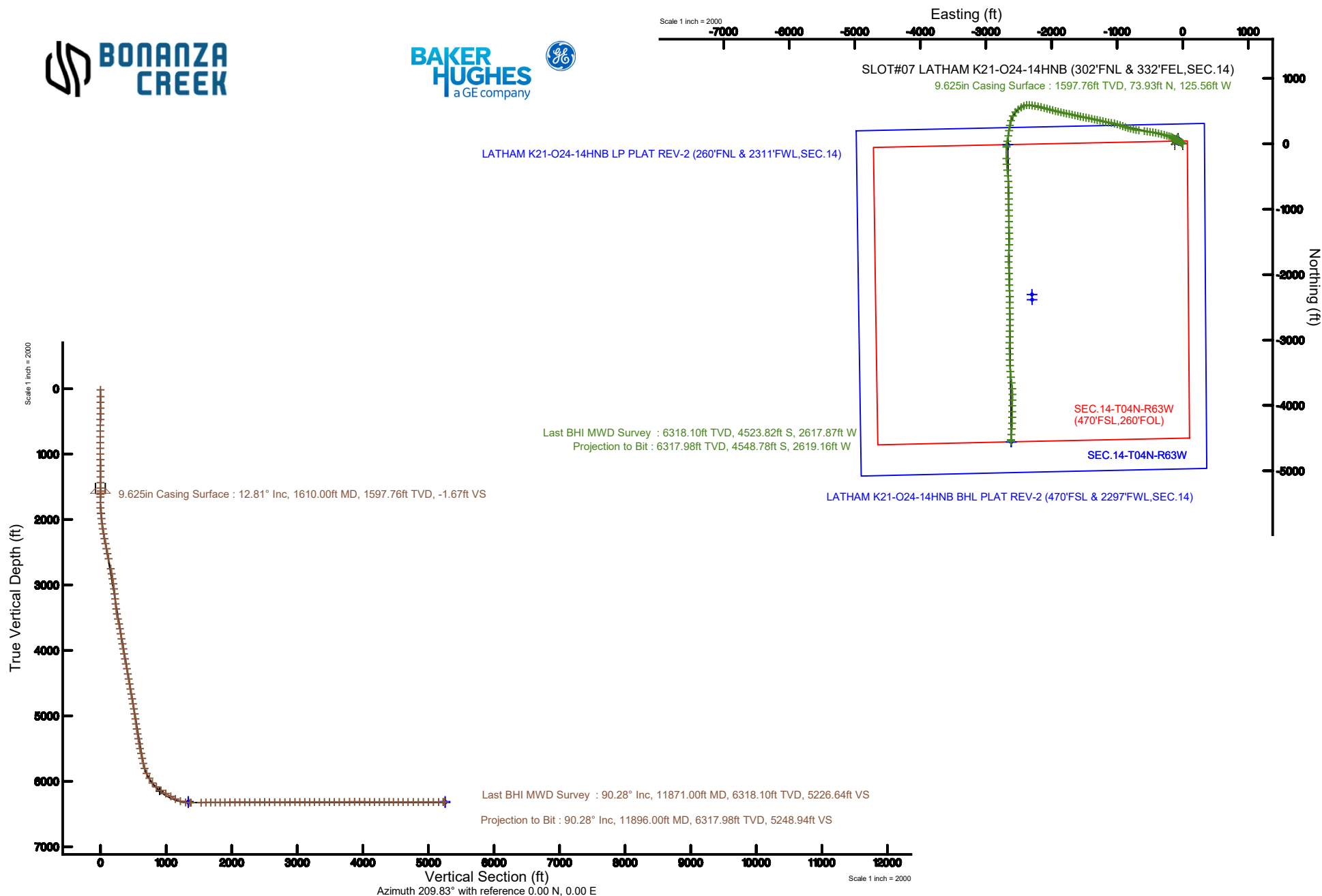


Location:	COLORADO	Slot:	SLOT#07 LATHAM K21-O24-14HNB (302°FNL & 332°FEL, SEC. 14)
Field:	WELD COUNTY (NAD83/TRUE)	Well:	LATHAM K21-O24-14HNB
Facility:	SEC. 14-T04N-R63W	Wellbore:	LATHAM K21-O24-14HNB PWB 05-123-49898-00

Plot reference wellpath is LATHAM K21-024-14HNB (REV-C-0) PWP	Grid System: NAD83 / Lambert Colorado SP, Northern Zone (501), US feet
True vertical depths are referenced to AKITA 519 (4603.9'GL+17'KB@4620.9') (RKB)	North Reference: True north
Measured depths are referenced to AKITA 519 (4603.9'GL+17'KB@4620.9') (RKB)	Scale: True distance
AKITA 519 (4603.9'GL+17'KB@4620.9') (RKB) to Mean Sea Level: 4620.9 feet	Depths are in feet
Mean Sea Level to Ground level (At Slot: SLO7W07 LATHAM K21-024-14HNB (302'FNL & 332'FEL SEC.14): 0 feet	Created by: doddanna on 2019-07-25
Coordinates are in feet referenced to Slot	Database: WellArchievDB



# Actual Wellpath Report

LATHAM K21-O24-14HNB AWP

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## REFERENCE WELLPATH IDENTIFICATION

Operator	BONANZA CREEK ENERGY	Slot	SLOT#07 LATHAM K21-O24-14HNB (302'FNL & 332'FEL, SEC.14)
Area	COLORADO	Well	LATHAM K21-O24-14HNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	LATHAM K21-O24-14HNB 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 2:16:26 PM
Convergence at slot	0.71° East	Database/Source file	WellArchitectDB/LATHAM_K21-O24-14HNB_AWP.xml

## WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-111.32	-152.48	3307538.02	1361028.04	40°19'09.021"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 (4603.9'GL+17'KB@4620.9') (RKB) to Facility Vertical Datum	4620.90ft
Horizontal Reference Pt	Slot	AKITA 519 (4603.9'GL+17'KB@4620.9') (RKB) to Mean Sea Level	4620.90ft
Vertical Reference Pt	AKITA 519 (4603.9'GL+17'KB@4620.9') (RKB)	AKITA 519 (4603.9'GL+17'KB@4620.9') (RKB) to Ground Level at Slot (SLOT#07 LATHAM K21-O24-14HNB (302'FNL & 332'FEL, SEC.14))	4620.90ft
MD Reference Pt	AKITA 519 (4603.9'GL+17'KB@4620.9') (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	209.83°

# Actual Wellpath Report

LATHAM K21-O24-14HNB AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK ENERGY	Slot	SLOT#07 LATHAM K21-O24-14HNB (302'FNL & 332'FEL, SEC.14)
Area	COLORADO	Well	LATHAM K21-O24-14HNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	LATHAM K21-O24-14HNB AWP
Facility	SEC.14-T04N-R63W		

## WELLPATH DATA (138 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	210.810	0.00	0.00	0.00	0.00	40°19'09.021"N	104°23'49.423"W	0.00	
17.00	0.000	210.810	17.00	0.00	0.00	0.00	40°19'09.021"N	104°23'49.423"W	0.00	
121.00	0.260	210.810	121.00	0.24	-0.20	-0.12	40°19'09.019"N	104°23'49.424"W	0.25	
209.00	0.470	10.160	209.00	0.10	-0.02	-0.16	40°19'09.021"N	104°23'49.425"W	0.82	
297.00	0.520	356.270	297.00	-0.58	0.73	-0.12	40°19'09.028"N	104°23'49.424"W	0.15	
384.00	0.460	355.110	383.99	-1.19	1.48	-0.18	40°19'09.036"N	104°23'49.425"W	0.07	
472.00	0.480	19.160	471.99	-1.85	2.18	-0.09	40°19'09.043"N	104°23'49.424"W	0.22	
558.00	0.980	341.750	557.98	-2.69	3.22	-0.20	40°19'09.053"N	104°23'49.425"W	0.77	
647.00	1.940	315.800	646.95	-3.61	5.02	-1.49	40°19'09.071"N	104°23'49.442"W	1.28	
736.00	3.040	309.180	735.87	-4.41	7.59	-4.37	40°19'09.096"N	104°23'49.479"W	1.28	
824.00	4.960	299.560	823.65	-4.77	10.94	-9.49	40°19'09.129"N	104°23'49.545"W	2.30	
912.00	6.110	296.820	911.24	-4.51	14.93	-16.97	40°19'09.169"N	104°23'49.642"W	1.34	
1001.00	7.540	292.870	999.61	-3.55	19.34	-26.58	40°19'09.212"N	104°23'49.766"W	1.69	
1088.00	8.630	293.730	1085.74	-2.17	24.18	-37.82	40°19'09.260"N	104°23'49.911"W	1.26	
1177.00	9.490	296.860	1173.63	-1.08	30.18	-50.48	40°19'09.319"N	104°23'50.074"W	1.11	
1267.00	10.590	300.120	1262.25	-0.73	37.69	-64.25	40°19'09.393"N	104°23'50.252"W	1.38	
1354.00	11.590	301.050	1347.63	-0.96	46.21	-78.65	40°19'09.478"N	104°23'50.438"W	1.17	
1442.00	12.230	300.960	1433.73	-1.33	55.56	-94.22	40°19'09.570"N	104°23'50.639"W	0.73	
1529.00	12.410	299.700	1518.73	-1.49	64.93	-110.24	40°19'09.663"N	104°23'50.846"W	0.37	
1576.00	12.760	300.570	1564.60	-1.55	70.08	-119.10	40°19'09.713"N	104°23'50.960"W	0.85	
1625.00	12.830	301.240	1612.38	-1.75	75.65	-128.41	40°19'09.769"N	104°23'51.080"W	0.33	
1668.00	14.210	300.820	1654.19	-1.96	80.83	-137.02	40°19'09.820"N	104°23'51.191"W	3.22	
1756.00	16.130	304.970	1739.12	-3.24	93.37	-156.32	40°19'09.944"N	104°23'51.441"W	2.51	
1844.00	17.630	289.780	1823.37	-2.01	104.89	-178.89	40°19'10.058"N	104°23'51.732"W	5.28	
1932.00	21.930	284.170	1906.16	4.76	113.43	-207.37	40°19'10.142"N	104°23'52.100"W	5.34	
2020.00	26.450	285.670	1986.42	13.99	122.75	-242.20	40°19'10.234"N	104°23'52.549"W	5.18	
2108.00	29.990	288.090	2063.95	23.27	134.88	-281.99	40°19'10.354"N	104°23'53.063"W	4.23	
2197.00	29.820	283.640	2141.11	33.97	147.01	-324.64	40°19'10.474"N	104°23'53.614"W	2.50	
2285.00	29.700	284.150	2217.50	45.96	157.49	-367.04	40°19'10.577"N	104°23'54.161"W	0.32	
2373.00	30.030	280.750	2293.82	59.05	166.93	-409.82	40°19'10.671"N	104°23'54.713"W	1.96	

# Actual Wellpath Report

LATHAM K21-O24-14HNB AWP

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## REFERENCE WELLPATH IDENTIFICATION

Operator	BONANZA CREEK ENERGY	Slot	SLOT#07 LATHAM K21-O24-14HNB (302'FNL & 332'FEL, SEC.14)
Area	COLORADO	Well	LATHAM K21-O24-14HNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	LATHAM K21-O24-14HNB AWP
Facility	SEC.14-T04N-R63W		

## WELLPATH DATA (138 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
2461.00	30.410	277.340	2369.87	74.77	173.89	-453.54	40°19'10.739"N	104°23'55.278"W	2.00	
2549.00	30.090	279.490	2445.89	90.96	180.37	-497.39	40°19'10.803"N	104°23'55.844"W	1.28	
2637.00	29.610	279.540	2522.21	106.17	187.61	-540.59	40°19'10.875"N	104°23'56.402"W	0.55	
2724.00	30.030	277.910	2597.69	121.75	194.17	-583.35	40°19'10.940"N	104°23'56.954"W	1.05	
2900.00	28.620	276.030	2751.14	155.21	204.66	-668.89	40°19'11.043"N	104°23'58.058"W	0.96	
2987.00	28.760	280.940	2827.47	170.39	210.82	-710.17	40°19'11.104"N	104°23'58.591"W	2.71	
3075.00	29.510	283.680	2904.34	183.28	219.96	-752.02	40°19'11.194"N	104°23'59.131"W	1.74	
3163.00	28.990	283.240	2981.12	195.40	229.97	-793.83	40°19'11.293"N	104°23'59.671"W	0.64	
3251.00	28.220	287.030	3058.38	206.10	240.95	-834.49	40°19'11.402"N	104°24'00.196"W	2.24	
3338.00	28.220	289.300	3135.04	214.41	253.77	-873.57	40°19'11.529"N	104°24'00.700"W	1.23	
3427.00	28.880	289.720	3213.22	222.03	267.98	-913.66	40°19'11.669"N	104°24'01.218"W	0.78	
3515.00	29.470	288.610	3290.06	229.98	282.06	-954.18	40°19'11.808"N	104°24'01.741"W	0.91	
3604.00	29.910	287.660	3367.37	238.92	295.78	-996.08	40°19'11.944"N	104°24'02.282"W	0.72	
3693.00	31.500	283.470	3443.90	250.15	307.93	-1039.84	40°19'12.064"N	104°24'02.847"W	2.99	
3782.00	31.660	279.400	3519.73	264.85	317.16	-1085.50	40°19'12.155"N	104°24'03.436"W	2.40	
3870.00	30.350	277.810	3595.16	281.25	323.95	-1130.31	40°19'12.222"N	104°24'04.015"W	1.76	
3957.00	30.070	283.770	3670.36	295.53	332.13	-1173.27	40°19'12.303"N	104°24'04.570"W	3.46	
4045.00	29.840	284.380	3746.60	307.46	342.81	-1215.89	40°19'12.408"N	104°24'05.120"W	0.43	
4134.00	30.000	282.230	3823.74	320.09	353.03	-1259.08	40°19'12.509"N	104°24'05.677"W	1.22	
4222.00	29.840	281.440	3900.02	333.65	362.03	-1302.04	40°19'12.598"N	104°24'06.232"W	0.48	
4309.00	29.610	282.200	3975.57	346.99	370.86	-1344.27	40°19'12.685"N	104°24'06.777"W	0.51	
4397.00	29.980	282.610	4051.93	360.08	380.26	-1386.97	40°19'12.778"N	104°24'07.328"W	0.48	
4485.00	29.940	282.350	4128.18	373.19	389.76	-1429.88	40°19'12.872"N	104°24'07.882"W	0.15	
4574.00	30.010	280.030	4205.27	387.40	398.38	-1473.49	40°19'12.957"N	104°24'08.446"W	1.30	
4661.00	29.600	280.710	4280.77	401.81	406.16	-1516.03	40°19'13.034"N	104°24'08.995"W	0.61	
4750.00	29.110	281.690	4358.34	415.75	414.64	-1558.83	40°19'13.118"N	104°24'09.547"W	0.77	
4838.00	29.170	281.890	4435.20	429.02	423.39	-1600.77	40°19'13.204"N	104°24'10.089"W	0.13	
4927.00	29.830	282.960	4512.66	442.13	432.82	-1643.57	40°19'13.298"N	104°24'10.641"W	0.95	
5014.00	29.490	283.590	4588.26	454.40	442.71	-1685.47	40°19'13.395"N	104°24'11.182"W	0.53	
5103.00	30.090	281.210	4665.50	467.65	452.19	-1728.65	40°19'13.489"N	104°24'11.740"W	1.49	

# Actual Wellpath Report

LATHAM K21-O24-14HNB AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK ENERGY	Slot	SLOT#07 LATHAM K21-O24-14HNB (302'FNL & 332'FEL, SEC.14)
Area	COLORADO	Well	LATHAM K21-O24-14HNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	LATHAM K21-O24-14HNB AWP
Facility	SEC.14-T04N-R63W		

WELLPATH DATA (138 stations)										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
5190.00	29.900	281.950	4740.85	481.27	460.92	-1771.26	40°19'13.575"N	104°24'12.290"W	0.48	
5278.00	29.940	282.220	4817.12	494.65	470.11	-1814.18	40°19'13.666"N	104°24'12.844"W	0.16	
5366.00	29.990	282.880	4893.36	507.71	479.66	-1857.08	40°19'13.760"N	104°24'13.398"W	0.38	
5455.00	29.020	284.130	4970.82	520.03	489.89	-1899.70	40°19'13.861"N	104°24'13.948"W	1.29	
5542.00	29.240	284.830	5046.82	531.24	500.48	-1940.71	40°19'13.966"N	104°24'14.477"W	0.47	
5629.00	29.520	284.970	5122.63	542.24	511.46	-1981.95	40°19'14.074"N	104°24'15.010"W	0.33	
5718.00	30.300	284.860	5199.77	553.67	522.88	-2024.84	40°19'14.187"N	104°24'15.564"W	0.88	
5806.00	31.010	285.500	5275.47	565.01	534.63	-2068.14	40°19'14.303"N	104°24'16.123"W	0.89	
5894.00	32.360	284.600	5350.36	576.81	546.63	-2112.78	40°19'14.422"N	104°24'16.699"W	1.63	
5983.00	32.580	283.990	5425.44	589.61	558.42	-2159.08	40°19'14.538"N	104°24'17.297"W	0.44	
6071.00	32.720	283.490	5499.54	602.77	569.70	-2205.19	40°19'14.650"N	104°24'17.892"W	0.35	
6159.00	30.630	278.470	5574.44	617.63	578.55	-2250.51	40°19'14.737"N	104°24'18.477"W	3.82	
6246.00	30.320	277.300	5649.42	634.12	584.61	-2294.21	40°19'14.797"N	104°24'19.041"W	0.77	
6335.00	28.810	277.540	5726.83	650.86	590.28	-2337.76	40°19'14.853"N	104°24'19.604"W	1.70	
6423.00	28.700	261.080	5804.10	672.17	589.78	-2379.72	40°19'14.848"N	104°24'20.145"W	8.98	
6511.00	30.850	245.450	5880.59	703.79	577.11	-2421.18	40°19'14.723"N	104°24'20.681"W	9.13	
6599.00	34.330	238.580	5954.75	743.91	554.78	-2462.91	40°19'14.502"N	104°24'21.219"W	5.77	
6689.00	40.510	232.880	6026.22	793.12	523.87	-2507.93	40°19'14.197"N	104°24'21.800"W	7.87	
6775.00	49.140	219.730	6087.29	851.09	481.84	-2551.16	40°19'13.781"N	104°24'22.359"W	14.69	
6862.00	56.670	206.600	6139.87	920.08	423.79	-2588.62	40°19'13.207"N	104°24'22.842"W	14.80	
6951.00	59.990	198.140	6186.65	995.06	353.82	-2617.32	40°19'12.516"N	104°24'23.212"W	8.90	
7040.00	61.930	189.690	6229.91	1069.77	278.38	-2635.95	40°19'11.771"N	104°24'23.453"W	8.58	
7128.00	63.340	186.400	6270.37	1142.32	201.01	-2646.87	40°19'11.006"N	104°24'23.594"W	3.69	
7216.00	72.200	190.920	6303.64	1218.21	120.60	-2659.22	40°19'10.211"N	104°24'23.753"W	11.13	
7303.00	82.290	190.170	6322.83	1298.20	37.29	-2674.72	40°19'09.388"N	104°24'23.953"W	11.63	
7373.00	89.260	186.420	6327.98	1363.08	-31.74	-2684.77	40°19'08.706"N	104°24'24.083"W	11.30	
7392.00	89.940	185.000	6328.12	1380.42	-50.64	-2686.66	40°19'08.519"N	104°24'24.107"W	8.29	
7569.00	91.320	176.430	6326.17	1534.89	-227.45	-2688.87	40°19'06.772"N	104°24'24.135"W	4.90	
7656.00	90.250	175.490	6324.97	1607.12	-314.22	-2682.74	40°19'05.915"N	104°24'24.056"W	1.64	
7745.00	90.620	173.070	6324.30	1679.52	-402.77	-2673.87	40°19'05.040"N	104°24'23.941"W	2.75	

# Actual Wellpath Report

LATHAM K21-O24-14HNB AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK ENERGY	Slot	SLOT#07 LATHAM K21-O24-14HNB (302'FNL & 332'FEL, SEC.14)
Area	COLORADO	Well	LATHAM K21-O24-14HNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	LATHAM K21-O24-14HNB AWP
Facility	SEC.14-T04N-R63W		

## WELLPATH DATA (138 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
7832.00	90.370	174.120	6323.55	1749.69	-489.22	-2664.17	40°19'04.185"N	104°24'23.816"W	1.24	
7920.00	90.430	176.480	6322.93	1822.18	-576.92	-2656.96	40°19'03.319"N	104°24'23.723"W	2.68	
8009.00	90.180	177.250	6322.46	1896.85	-665.78	-2652.09	40°19'02.440"N	104°24'23.660"W	0.91	
8097.00	90.340	179.340	6322.06	1971.85	-753.74	-2649.47	40°19'01.571"N	104°24'23.626"W	2.38	
8186.00	89.940	181.520	6321.84	2049.38	-842.73	-2650.14	40°19'00.692"N	104°24'23.634"W	2.49	
8272.00	91.200	179.540	6320.99	2124.37	-928.71	-2650.93	40°18'59.842"N	104°24'23.645"W	2.73	
8360.00	90.490	177.840	6319.69	2199.67	-1016.68	-2648.92	40°18'58.973"N	104°24'23.619"W	2.09	
8447.00	89.850	180.420	6319.43	2274.47	-1103.66	-2647.60	40°18'58.113"N	104°24'23.601"W	3.06	
8535.00	89.940	180.690	6319.59	2351.23	-1191.65	-2648.45	40°18'57.244"N	104°24'23.612"W	0.32	
8624.00	90.250	177.870	6319.44	2427.87	-1280.64	-2647.34	40°18'56.365"N	104°24'23.598"W	3.19	
8711.00	89.850	178.120	6319.37	2501.78	-1367.59	-2644.29	40°18'55.505"N	104°24'23.558"W	0.54	
8799.00	89.820	180.330	6319.62	2577.51	-1455.57	-2643.10	40°18'54.636"N	104°24'23.543"W	2.51	
8888.00	89.850	182.410	6319.88	2655.75	-1544.54	-2645.23	40°18'53.757"N	104°24'23.570"W	2.34	
8976.00	89.850	183.390	6320.11	2734.21	-1632.43	-2649.68	40°18'52.888"N	104°24'23.627"W	1.11	
9063.00	90.860	181.210	6319.57	2811.35	-1719.35	-2653.17	40°18'52.029"N	104°24'23.672"W	2.76	
9151.00	90.580	179.670	6318.46	2888.01	-1807.34	-2653.85	40°18'51.160"N	104°24'23.681"W	1.78	
9240.00	89.970	177.420	6318.04	2964.06	-1896.30	-2651.59	40°18'50.281"N	104°24'23.652"W	2.62	
9327.00	89.480	178.340	6318.45	3037.88	-1983.24	-2648.37	40°18'49.422"N	104°24'23.610"W	1.20	
9415.00	89.970	180.590	6318.88	3113.80	-2071.23	-2647.55	40°18'48.552"N	104°24'23.599"W	2.62	
9504.00	89.880	175.600	6318.99	3189.47	-2160.15	-2644.59	40°18'47.673"N	104°24'23.561"W	5.61	
9592.00	90.860	177.850	6318.42	3263.18	-2248.00	-2639.57	40°18'46.805"N	104°24'23.496"W	2.79	
9681.00	89.780	177.860	6317.93	3338.67	-2336.93	-2636.23	40°18'45.927"N	104°24'23.453"W	1.21	
9768.00	90.370	181.860	6317.81	3414.02	-2423.91	-2636.02	40°18'45.067"N	104°24'23.450"W	4.65	
9856.00	90.800	178.780	6316.92	3490.59	-2511.90	-2636.51	40°18'44.198"N	104°24'23.456"W	3.53	
9944.00	90.150	177.970	6316.19	3565.65	-2599.86	-2634.02	40°18'43.328"N	104°24'23.424"W	1.18	
10033.00	89.570	179.990	6316.40	3642.05	-2688.84	-2632.43	40°18'42.449"N	104°24'23.403"W	2.36	
10121.00	90.000	181.770	6316.73	3719.05	-2776.82	-2633.78	40°18'41.580"N	104°24'23.421"W	2.08	
10208.00	91.570	181.940	6315.54	3795.88	-2863.77	-2636.60	40°18'40.720"N	104°24'23.457"W	1.82	
10296.00	89.880	180.280	6314.43	3873.04	-2951.74	-2638.30	40°18'39.851"N	104°24'23.479"W	2.69	
10385.00	89.450	181.200	6314.95	3950.81	-3040.73	-2639.45	40°18'38.972"N	104°24'23.494"W	1.14	

# Actual Wellpath Report

LATHAM K21-O24-14HNB AWP

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**BAKER  
HUGHES**

REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK ENERGY	Slot	SLOT#07 LATHAM K21-O24-14HNB (302'FNL & 332'FEL, SEC.14)
Area	COLORADO	Well	LATHAM K21-O24-14HNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	LATHAM K21-O24-14HNB AWP
Facility	SEC.14-T04N-R63W		

WELLPATH DATA (138 stations)										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
10473.00	89.820	179.850	6315.51	4027.54	-3128.72	-2640.26	40°18'38.102"N	104°24'23.504"W	1.59	
10560.00	89.450	178.520	6316.06	4102.39	-3215.71	-2639.02	40°18'37.243"N	104°24'23.488"W	1.59	
10649.00	89.290	178.080	6317.04	4178.24	-3304.66	-2636.38	40°18'36.364"N	104°24'23.454"W	0.53	
10736.00	91.080	177.830	6316.76	4252.12	-3391.60	-2633.28	40°18'35.505"N	104°24'23.413"W	2.08	
10825.00	90.090	175.710	6315.85	4326.70	-3480.45	-2628.26	40°18'34.627"N	104°24'23.348"W	2.63	
10913.00	89.850	173.120	6315.90	4398.41	-3568.03	-2619.70	40°18'33.761"N	104°24'23.238"W	2.96	
11001.00	89.350	171.550	6316.51	4468.22	-3655.23	-2607.96	40°18'32.899"N	104°24'23.086"W	1.87	
11090.00	89.940	175.670	6317.06	4540.00	-3743.66	-2598.06	40°18'32.026"N	104°24'22.958"W	4.68	
11178.00	89.940	179.240	6317.16	4614.31	-3831.56	-2594.15	40°18'31.157"N	104°24'22.908"W	4.06	
11264.00	89.570	183.090	6317.52	4689.76	-3917.52	-2595.90	40°18'30.308"N	104°24'22.930"W	4.50	
11353.00	90.000	180.180	6317.86	4768.19	-4006.48	-2598.44	40°18'29.428"N	104°24'22.963"W	3.31	
11442.00	89.880	180.730	6317.95	4845.74	-4095.47	-2599.15	40°18'28.549"N	104°24'22.972"W	0.63	
11530.00	90.000	180.710	6318.04	4922.62	-4183.47	-2600.25	40°18'27.680"N	104°24'22.986"W	0.14	
11617.00	90.000	180.430	6318.04	4998.52	-4270.46	-2601.12	40°18'26.820"N	104°24'22.997"W	0.32	
11705.00	89.630	183.660	6318.33	5076.36	-4358.39	-2604.26	40°18'25.951"N	104°24'23.037"W	3.69	
11793.00	90.220	186.080	6318.44	5156.14	-4446.07	-2611.73	40°18'25.085"N	104°24'23.134"W	2.83	
11871.00	90.280	182.950	6318.10	5226.64	-4523.82	-2617.87	40°18'24.316"N	104°24'23.213"W	4.01	Last BHI MWD Survey
11896.00	90.280	182.950	6317.98	5248.94	-4548.78	-2619.16	40°18'24.070"N	104°24'23.229"W	0.00	Projection to Bit

HOLE & CASING SECTIONS									
- Ref Wellbore: LATHAM K21-O24-14HNB AWP					Ref Wellpath: LATHAM K21-O24-14HNB 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	1610.00	1593.00	17.00	1597.76	0.00	0.00	73.93	-125.56

# Actual Wellpath Report

LATHAM K21-O24-14HNB AWP

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## REFERENCE WELLPATH IDENTIFICATION

Operator	BONANZA CREEK ENERGY	Slot	SLOT#07 LATHAM K21-O24-14HNB (302'FNL & 332'FEL,SEC.14)
Area	COLORADO	Well	LATHAM K21-O24-14HNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	LATHAM K21-O24-14HNB AWB
Facility	SEC.14-T04N-R63W		

## TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
LATHAM K21-O24-14HNB BHL PLAT (470'FSL & 2297'FWL,SEC.14)	6310.90	-4558.07	-2613.77	3304981.26	1356438.02	40°18'23.978"N	104°24'23.160"W	point
LATHAM K21-O24-14HNB LP PLAT (260'FNL & 2311'FWL,SEC.14)	6310.90	-14.65	-2665.55	3304872.98	1360980.24	40°19'08.875"N	104°24'23.835"W	point
LATHAM K21-O24-14HNB BHL PLAT REV-2 (470'FSL & 2297'FWL,SEC.14)	6325.00	-4558.07	-2613.77	3304981.26	1356438.02	40°18'23.978"N	104°24'23.160"W	point
LATHAM K21-O24-14HNB LP PLAT REV-2 (260'FNL & 2311'FWL,SEC.14)	6325.00	-14.65	-2665.54	3304872.98	1360980.24	40°19'08.875"N	104°24'23.835"W	point
SEC.14-T04N-R63W (470'FSL,260'FOL)	16619.90	-2304.91	-2297.20	3305269.76	1358694.84	40°18'46.243"N	104°24'19.076"W	polygon
SEC.14-T04N-R63W	16620.90	-2383.89	-2296.01	3305271.94	1358615.89	40°18'45.463"N	104°24'19.061"W	polygon

## WELLPATH COMPOSITION - Ref Wellbore: LATHAM K21-O24-14HNB AWB Ref Wellpath: LATHAM K21-O24-14HNB AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
17.00	1576.00	BHI NaviTrak (Rotating)	BHI NAVITRAK MWD 13.5" (ROTATING)<121-1576>	LATHAM K21-O24-14HNB AWB
1576.00	11871.00	BHI AutoTrak Curve (Short)	BHI ATC 8.5" (SHORT)<1625-11871>	LATHAM K21-O24-14HNB AWB
11871.00	11896.00	Blind Drilling (std)	Projection to bit	LATHAM K21-O24-14HNB AWB



# Actual Wellpath Report

LATHAM K21-O24-14HNB AWP

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## REFERENCE WELLPATH IDENTIFICATION

Operator	BONANZA CREEK ENERGY	Slot	SLOT#07 LATHAM K21-O24-14HNB (302'FNL & 332'FEL, SEC.14)
Area	COLORADO	Well	LATHAM K21-O24-14HNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	LATHAM K21-O24-14HNB AWB
Facility	SEC.14-T04N-R63W		

## WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
11871.00	90.280	182.950	6318.10	Last BHI MWD Survey
11896.00	90.280	182.950	6317.98	Projection to Bit