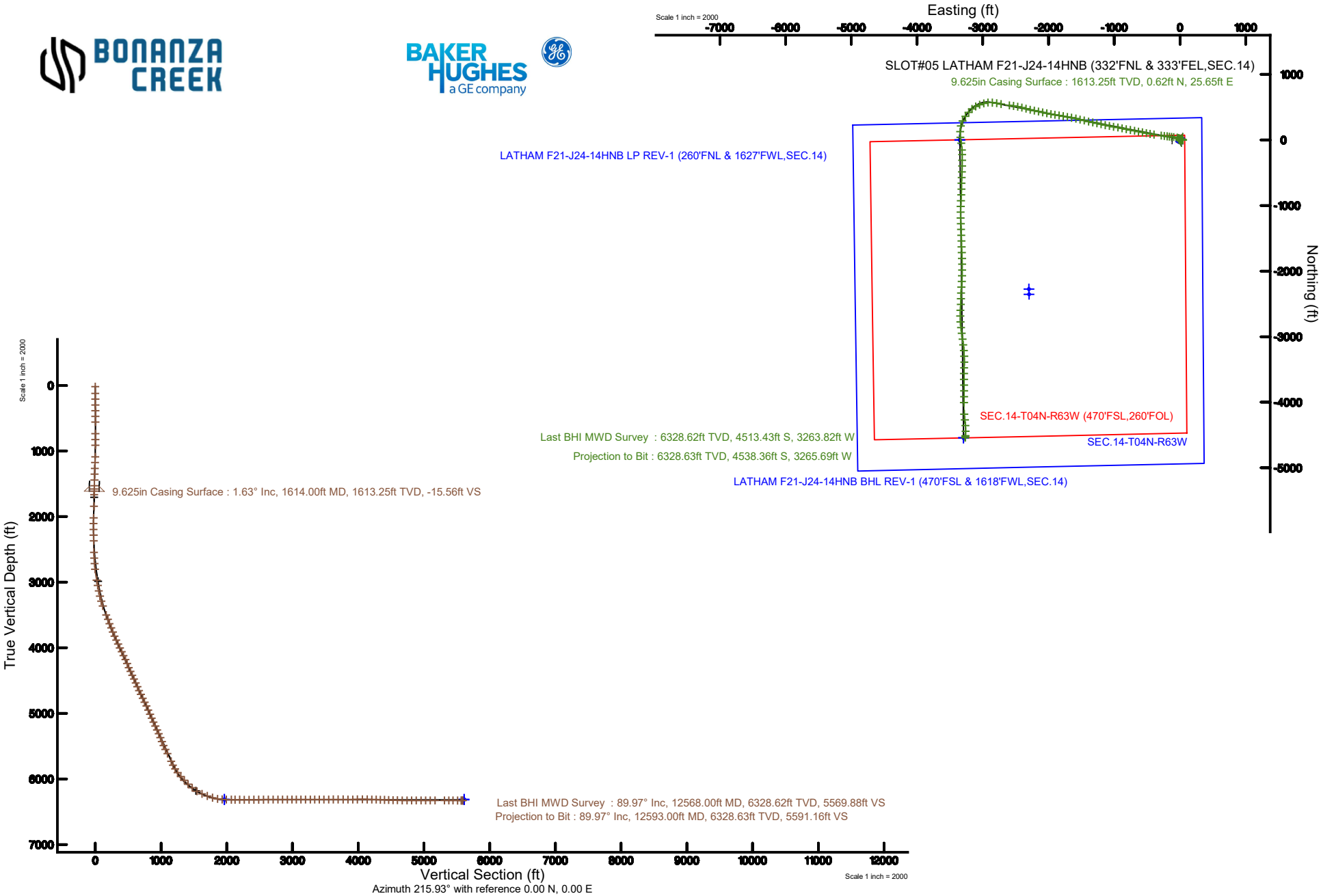


BONANZA CREEK ENERGY

Location: COLORADO Slot: SLOT#05 LATHAM F21-J24-14HNB (332'FNL & 333'FEL, SEC.14)
Field: WELD COUNTY (NAD83/TRUE) Well: LATHAM F21-J24-14HNB
Facility: SEC.14-T04N-R63W Wellbore: LATHAM F21-J24-14HNB PWB
05-123-49893-00

Plot reference wellpath is LATHAM F21-J24-14HNB (REV-C.0) PWP	Grid System: NAD83 / Lambert Colorado SP, Northern Zone (501), US feet
True vertical depths are referenced to AKITA 519 (4603.7'GL+17'KB@4620.7') (RKB)	North Reference: True north
Measured depths are referenced to AKITA 519 (4603.7'GL+17'KB@4620.7') (RKB)	Scale: True distance
AKITA 519 (4603.7'GL+17'KB@4620.7') (RKB) to Mean Sea Level: 4620.7 feet	Depths are in feet
Mean Sea Level to Ground level (At Slot: SLOT#05 LATHAM F21-J24-14HNB (332'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 F21-J24-14HNB AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	BONANZA CREEK ENERGY	Slot	SLOT#05 LATHAM F21-J24-14HNB (332'FNL & 333'FEL, SEC.14)
Area	COLORADO	Well	LATHAM F21-J24-14HNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	LATHAM F21-J24-14HNB 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 2:04:29 PM
Convergence at slot	0.71° East	Database/Source file	WellArchitectDB/LATHAM_F21-J24-14HNB_AWP.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-141.30	-152.50	3307538.37	1360998.06	40°19'08.725"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 (4603.7'GL+17'KB@4620.7') (RKB) to Facility Vertical Datum	4620.70ft
Horizontal Reference Pt	Slot	AKITA 519 (4603.7'GL+17'KB@4620.7') (RKB) to Mean Sea Level	4620.70ft
Vertical Reference Pt	AKITA 519 (4603.7'GL+17'KB@4620.7') (RKB)	AKITA 519 (4603.7'GL+17'KB@4620.7') (RKB) to Ground Level at Slot (SLOT#05 LATHAM F21-J24-14HNB (332'FNL & 333'FEL, SEC.14))	4620.70ft
MD Reference Pt	AKITA 519 (4603.7'GL+17'KB@4620.7') (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	215.93°

Actual Wellpath Report

LATHAM F21-J24-14HNB AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK ENERGY	Slot	SLOT#05 LATHAM F21-J24-14HNB (332'FNL & 333'FEL, SEC.14)
Area	COLORADO	Well	LATHAM F21-J24-14HNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	LATHAM F21-J24-14HNB AWB
Facility	SEC.14-T04N-R63W		

WELLPATH DATA (137 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	250.060	0.00	0.00	0.00	0.00	40°19'08.725"N	104°23'49.423"W	0.00	
17.00	0.000	250.060	17.00	0.00	0.00	0.00	40°19'08.725"N	104°23'49.423"W	0.00	
121.00	0.520	250.060	121.00	0.39	-0.16	-0.44	40°19'08.723"N	104°23'49.429"W	0.50	
209.00	0.290	305.990	209.00	0.72	-0.17	-1.00	40°19'08.723"N	104°23'49.436"W	0.49	
297.00	0.730	285.550	296.99	0.92	0.11	-1.72	40°19'08.726"N	104°23'49.445"W	0.53	
384.00	0.610	278.020	383.99	1.33	0.33	-2.71	40°19'08.728"N	104°23'49.458"W	0.17	
472.00	0.620	323.790	471.98	1.40	0.78	-3.46	40°19'08.732"N	104°23'49.467"W	0.54	
558.00	0.470	314.780	557.98	1.20	1.40	-3.98	40°19'08.739"N	104°23'49.474"W	0.20	
736.00	0.160	282.020	735.98	1.19	1.97	-4.74	40°19'08.744"N	104°23'49.484"W	0.19	
824.00	0.290	283.210	823.98	1.33	2.04	-5.08	40°19'08.745"N	104°23'49.488"W	0.15	
912.00	0.570	110.270	911.97	1.29	1.94	-4.89	40°19'08.744"N	104°23'49.486"W	0.98	
1088.00	2.990	90.970	1087.88	-1.57	1.56	0.52	40°19'08.740"N	104°23'49.416"W	1.40	
1177.00	3.280	92.710	1176.74	-4.30	1.40	5.39	40°19'08.739"N	104°23'49.353"W	0.34	
1267.00	3.440	92.760	1266.59	-7.19	1.15	10.66	40°19'08.736"N	104°23'49.285"W	0.18	
1354.00	2.830	90.750	1353.46	-9.85	1.00	15.41	40°19'08.735"N	104°23'49.224"W	0.71	
1442.00	2.710	87.960	1441.36	-12.38	1.04	19.66	40°19'08.735"N	104°23'49.169"W	0.21	
1529.00	1.940	94.980	1528.28	-14.41	0.99	23.19	40°19'08.734"N	104°23'49.123"W	0.94	
1581.00	1.540	99.850	1580.26	-15.17	0.79	24.75	40°19'08.733"N	104°23'49.103"W	0.82	
1667.00	1.770	103.270	1666.22	-16.19	0.29	27.18	40°19'08.728"N	104°23'49.072"W	0.29	
1843.00	3.730	99.660	1842.01	-19.77	-1.30	35.47	40°19'08.712"N	104°23'48.965"W	1.12	
2019.00	2.630	72.050	2017.75	-25.56	-1.01	44.96	40°19'08.715"N	104°23'48.842"W	1.05	
2107.00	0.970	309.670	2105.72	-27.24	0.09	46.31	40°19'08.726"N	104°23'48.825"W	3.70	
2196.00	2.980	290.040	2194.66	-26.66	1.36	43.55	40°19'08.738"N	104°23'48.861"W	2.35	
2284.00	5.030	300.020	2282.44	-25.64	4.07	38.06	40°19'08.765"N	104°23'48.931"W	2.45	
2372.00	6.210	299.220	2370.02	-24.68	8.33	30.57	40°19'08.807"N	104°23'49.028"W	1.34	
2548.00	9.000	291.780	2544.46	-20.20	18.09	9.47	40°19'08.903"N	104°23'49.301"W	1.68	
2636.00	10.140	290.240	2631.23	-16.42	23.32	-4.19	40°19'08.955"N	104°23'49.477"W	1.33	
2723.00	13.050	287.110	2716.45	-11.18	28.86	-20.76	40°19'09.010"N	104°23'49.691"W	3.42	
2812.00	16.080	282.710	2802.58	-3.08	34.53	-42.40	40°19'09.066"N	104°23'49.970"W	3.62	
2986.00	20.240	275.850	2967.90	21.52	42.90	-95.87	40°19'09.149"N	104°23'50.661"W	2.68	

Actual Wellpath Report

LATHAM F21-J24-14HNB AWP

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**BAKER
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REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK ENERGY	Slot	SLOT#05 LATHAM F21-J24-14HNB (332'FNL & 333'FEL, SEC.14)
Area	COLORADO	Well	LATHAM F21-J24-14HNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	LATHAM F21-J24-14HNB AWB
Facility	SEC.14-T04N-R63W		

WELLPATH DATA (137 stations)										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
3074.00	21.420	275.100	3050.14	37.39	45.88	-127.02	40°19'09.178"N	104°23'51.063"W	1.37	
3162.00	22.940	278.040	3131.63	53.65	49.71	-160.01	40°19'09.216"N	104°23'51.489"W	2.14	
3250.00	26.030	277.550	3211.71	70.85	54.65	-196.15	40°19'09.265"N	104°23'51.955"W	3.52	
3337.00	31.260	277.610	3288.03	90.65	60.15	-237.47	40°19'09.319"N	104°23'52.489"W	6.01	
3426.00	35.440	276.780	3362.36	114.18	66.26	-286.01	40°19'09.379"N	104°23'53.115"W	4.72	
3603.00	41.480	279.210	3500.90	165.59	81.71	-394.93	40°19'09.532"N	104°23'54.521"W	3.52	
3692.00	41.360	280.500	3567.65	191.47	91.79	-452.94	40°19'09.632"N	104°23'55.270"W	0.97	
3781.00	42.870	281.690	3633.66	216.53	103.28	-511.51	40°19'09.745"N	104°23'56.026"W	1.92	
3869.00	43.570	280.680	3697.79	241.75	114.97	-570.62	40°19'09.861"N	104°23'56.790"W	1.12	
3956.00	43.970	281.520	3760.62	267.03	126.56	-629.68	40°19'09.975"N	104°23'57.552"W	0.81	
4045.00	45.830	281.180	3823.66	293.16	138.92	-691.27	40°19'10.097"N	104°23'58.347"W	2.11	
4133.00	47.430	280.750	3884.09	320.16	151.08	-754.07	40°19'10.218"N	104°23'59.158"W	1.85	
4221.00	47.610	281.750	3943.52	347.26	163.74	-817.72	40°19'10.343"N	104°23'59.980"W	0.86	
4308.00	47.720	281.600	4002.11	373.68	176.76	-880.71	40°19'10.471"N	104°24'00.793"W	0.18	
4396.00	47.830	280.090	4061.25	401.31	189.02	-944.70	40°19'10.592"N	104°24'01.619"W	1.28	
4484.00	47.860	280.090	4120.31	429.74	200.45	-1008.93	40°19'10.705"N	104°24'02.448"W	0.03	
4573.00	47.720	281.320	4180.11	457.84	212.69	-1073.70	40°19'10.826"N	104°24'03.284"W	1.04	
4660.00	45.520	281.190	4239.86	484.23	225.03	-1135.72	40°19'10.948"N	104°24'04.085"W	2.53	
4749.00	46.930	283.590	4301.43	509.88	238.83	-1198.47	40°19'11.085"N	104°24'04.895"W	2.51	
4837.00	48.580	282.580	4360.59	535.18	253.57	-1261.92	40°19'11.230"N	104°24'05.714"W	2.06	
4926.00	48.610	281.240	4419.46	562.35	267.35	-1327.23	40°19'11.366"N	104°24'06.557"W	1.13	
5013.00	48.440	283.040	4477.08	588.65	281.05	-1390.96	40°19'11.502"N	104°24'07.380"W	1.56	
5102.00	48.600	282.240	4536.03	615.01	295.64	-1456.02	40°19'11.646"N	104°24'08.220"W	0.70	
5189.00	48.000	283.460	4593.91	640.48	310.09	-1519.35	40°19'11.788"N	104°24'09.038"W	1.25	
5277.00	48.750	283.030	4652.36	665.85	325.16	-1583.38	40°19'11.937"N	104°24'09.864"W	0.93	
5365.00	48.390	279.860	4710.60	693.19	338.25	-1648.03	40°19'12.067"N	104°24'10.699"W	2.73	
5454.00	48.170	280.510	4769.83	722.04	350.00	-1713.41	40°19'12.183"N	104°24'11.543"W	0.60	
5541.00	47.110	280.120	4828.45	749.83	361.51	-1776.66	40°19'12.296"N	104°24'12.360"W	1.26	
5628.00	46.480	280.130	4888.01	777.44	372.66	-1839.08	40°19'12.407"N	104°24'13.166"W	0.72	
5717.00	44.510	278.920	4950.39	805.65	383.17	-1901.67	40°19'12.510"N	104°24'13.974"W	2.42	

Actual Wellpath Report

LATHAM F21-J24-14HNB AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK ENERGY	Slot	SLOT#05 LATHAM F21-J24-14HNB (332'FNL & 333'FEL, SEC.14)
Area	COLORADO	Well	LATHAM F21-J24-14HNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	LATHAM F21-J24-14HNB AWB
Facility	SEC.14-T04N-R63W		

WELLPATH DATA (137 stations)										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
5805.00	45.970	281.310	5012.36	832.85	394.16	-1963.18	40°19'12.619"N	104°24'14.768"W	2.54	
5893.00	47.240	282.070	5072.82	859.10	407.12	-2025.79	40°19'12.747"N	104°24'15.576"W	1.57	
5982.00	47.150	281.400	5133.29	885.86	420.40	-2089.72	40°19'12.878"N	104°24'16.401"W	0.56	
6070.00	47.450	280.920	5192.97	912.95	432.92	-2153.17	40°19'13.002"N	104°24'17.221"W	0.53	
6158.00	47.410	282.560	5252.50	939.51	446.10	-2216.62	40°19'13.132"N	104°24'18.040"W	1.37	
6245.00	47.530	282.720	5311.31	964.86	460.13	-2279.18	40°19'13.271"N	104°24'18.847"W	0.19	
6334.00	47.240	284.360	5371.57	989.81	475.46	-2342.85	40°19'13.422"N	104°24'19.669"W	1.39	
6422.00	47.010	285.550	5431.45	1012.90	492.10	-2405.15	40°19'13.586"N	104°24'20.474"W	1.02	
6510.00	47.820	281.720	5491.01	1037.48	507.36	-2468.10	40°19'13.737"N	104°24'21.286"W	3.33	
6598.00	47.690	277.500	5550.19	1066.35	518.23	-2532.30	40°19'13.844"N	104°24'22.115"W	3.55	
6688.00	44.090	275.740	5612.82	1097.95	525.71	-2596.47	40°19'13.918"N	104°24'22.944"W	4.24	
6861.00	49.360	283.350	5731.47	1153.50	546.92	-2720.40	40°19'14.128"N	104°24'24.544"W	4.42	
6950.00	49.890	278.380	5789.14	1182.22	559.68	-2786.95	40°19'14.254"N	104°24'25.403"W	4.30	
7039.00	48.770	276.770	5847.14	1214.27	568.58	-2853.86	40°19'14.342"N	104°24'26.267"W	1.86	
7127.00	49.660	264.700	5904.75	1252.58	569.39	-2920.26	40°19'14.350"N	104°24'27.124"W	10.43	
7215.00	47.890	252.530	5962.86	1301.00	556.46	-2984.93	40°19'14.222"N	104°24'27.959"W	10.58	
7302.00	48.180	252.200	6021.04	1353.05	536.86	-3046.58	40°19'14.028"N	104°24'28.755"W	0.44	
7392.00	49.360	242.940	6080.43	1410.58	511.05	-3109.00	40°19'13.773"N	104°24'29.561"W	7.84	
7478.00	52.360	228.120	6134.89	1473.16	473.34	-3163.60	40°19'13.400"N	104°24'30.265"W	13.79	
7568.00	57.970	221.700	6186.31	1546.05	420.99	-3215.59	40°19'12.883"N	104°24'30.937"W	8.55	
7655.00	66.880	216.480	6226.57	1622.95	361.13	-3264.03	40°19'12.291"N	104°24'31.562"W	11.54	
7744.00	70.080	205.330	6259.30	1705.24	290.20	-3306.39	40°19'11.590"N	104°24'32.109"W	12.19	
7831.00	74.660	192.580	6285.74	1784.29	211.95	-3333.14	40°19'10.817"N	104°24'32.454"W	14.92	
7919.00	81.040	182.370	6304.30	1859.73	126.81	-3344.22	40°19'09.976"N	104°24'32.597"W	13.46	
8008.00	88.430	172.750	6312.48	1929.06	38.43	-3340.41	40°19'09.102"N	104°24'32.547"W	13.59	
8097.00	88.830	171.180	6314.61	1993.10	-49.66	-3327.97	40°19'08.232"N	104°24'32.387"W	1.82	
8202.00	89.780	176.260	6315.88	2070.84	-153.99	-3316.49	40°19'07.201"N	104°24'32.238"W	4.92	
8271.00	89.940	179.410	6316.05	2125.13	-222.93	-3313.89	40°19'06.520"N	104°24'32.204"W	4.57	
8359.00	90.060	179.730	6316.05	2196.00	-310.93	-3313.22	40°19'05.650"N	104°24'32.196"W	0.39	
8446.00	89.910	181.260	6316.07	2266.88	-397.92	-3313.98	40°19'04.790"N	104°24'32.205"W	1.77	

Actual Wellpath Report

LATHAM F21-J24-14HNB AWP

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**BAKER
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REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK ENERGY	Slot	SLOT#05 LATHAM F21-J24-14HNB (332'FNL & 333'FEL, SEC.14)
Area	COLORADO	Well	LATHAM F21-J24-14HNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	LATHAM F21-J24-14HNB AWB
Facility	SEC.14-T04N-R63W		

WELLPATH DATA (137 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
8534.00	90.060	182.470	6316.10	2339.78	-485.88	-3316.84	40°19'03.921"N	104°24'32.242"W	1.39	
8623.00	90.220	182.660	6315.88	2414.11	-574.79	-3320.82	40°19'03.043"N	104°24'32.293"W	0.28	
8710.00	89.910	180.220	6315.78	2485.81	-661.75	-3323.01	40°19'02.183"N	104°24'32.321"W	2.83	
8798.00	90.490	181.660	6315.47	2557.90	-749.74	-3324.45	40°19'01.314"N	104°24'32.340"W	1.76	
8887.00	90.520	182.900	6314.69	2631.98	-838.66	-3327.99	40°19'00.435"N	104°24'32.385"W	1.39	
8975.00	90.520	182.350	6313.89	2705.52	-926.57	-3332.02	40°18'59.566"N	104°24'32.437"W	0.62	
9062.00	89.820	181.880	6313.63	2777.80	-1013.51	-3335.23	40°18'58.707"N	104°24'32.479"W	0.97	
9150.00	89.720	180.720	6313.99	2850.21	-1101.48	-3337.23	40°18'57.838"N	104°24'32.504"W	1.32	
9239.00	89.780	178.570	6314.37	2921.95	-1190.47	-3336.68	40°18'56.958"N	104°24'32.497"W	2.42	
9326.00	89.970	177.570	6314.56	2990.63	-1277.42	-3333.75	40°18'56.099"N	104°24'32.459"W	1.17	
9414.00	89.880	177.980	6314.68	3059.83	-1365.36	-3330.33	40°18'55.230"N	104°24'32.415"W	0.48	
9503.00	90.030	178.190	6314.75	3130.11	-1454.31	-3327.36	40°18'54.351"N	104°24'32.376"W	0.29	
9591.00	90.000	178.720	6314.73	3199.95	-1542.27	-3324.99	40°18'53.482"N	104°24'32.345"W	0.60	
9680.00	89.720	177.920	6314.94	3270.45	-1631.23	-3322.38	40°18'52.603"N	104°24'32.312"W	0.95	
9767.00	90.060	177.930	6315.11	3339.00	-1718.18	-3319.23	40°18'51.744"N	104°24'32.271"W	0.39	
9855.00	90.120	177.620	6314.97	3408.20	-1806.11	-3315.81	40°18'50.875"N	104°24'32.227"W	0.36	
9943.00	90.920	179.570	6314.17	3478.16	-1894.07	-3313.65	40°18'50.006"N	104°24'32.199"W	2.40	
10032.00	90.830	180.780	6312.81	3550.38	-1983.06	-3313.92	40°18'49.126"N	104°24'32.202"W	1.36	
10120.00	89.570	181.190	6312.51	3622.51	-2071.05	-3315.44	40°18'48.257"N	104°24'32.221"W	1.51	
10207.00	90.280	182.990	6312.62	3694.76	-2157.98	-3318.61	40°18'47.398"N	104°24'32.262"W	2.22	
10295.00	89.850	185.750	6312.52	3769.74	-2245.72	-3325.31	40°18'46.531"N	104°24'32.348"W	3.17	
10384.00	89.750	181.070	6312.83	3844.76	-2334.54	-3330.61	40°18'45.653"N	104°24'32.417"W	5.26	
10472.00	90.150	180.540	6312.91	3916.74	-2422.53	-3331.84	40°18'44.784"N	104°24'32.432"W	0.75	
10559.00	90.890	183.170	6312.12	3988.79	-2509.47	-3334.66	40°18'43.924"N	104°24'32.469"W	3.14	
10648.00	89.910	183.110	6311.50	4063.60	-2598.33	-3339.53	40°18'43.046"N	104°24'32.531"W	1.10	
10736.00	89.290	180.080	6312.11	4136.26	-2686.29	-3341.98	40°18'42.177"N	104°24'32.563"W	3.51	
10824.00	89.080	176.180	6313.36	4205.77	-2774.21	-3339.11	40°18'41.308"N	104°24'32.526"W	4.44	
10912.00	89.290	173.440	6314.62	4272.05	-2861.84	-3331.15	40°18'40.442"N	104°24'32.423"W	3.12	
11000.00	88.550	172.280	6316.28	4336.32	-2949.14	-3320.22	40°18'39.580"N	104°24'32.281"W	1.56	
11089.00	88.520	172.000	6318.55	4400.55	-3037.27	-3308.05	40°18'38.709"N	104°24'32.124"W	0.32	

Actual Wellpath Report

LATHAM F21-J24-14HNB AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK ENERGY	Slot	SLOT#05 LATHAM F21-J24-14HNB (332'FNL & 333'FEL, SEC.14)
Area	COLORADO	Well	LATHAM F21-J24-14HNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	LATHAM F21-J24-14HNB AWB
Facility	SEC.14-T04N-R63W		

WELLPATH DATA (137 stations)										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
11177.00	88.520	172.860	6320.82	4464.36	-3124.47	-3296.46	40°18'37.847"N	104°24'31.975"W	0.98	
11263.00	88.550	175.360	6323.02	4528.42	-3209.99	-3287.64	40°18'37.002"N	104°24'31.860"W	2.91	
11352.00	88.800	177.880	6325.08	4597.26	-3298.80	-3282.39	40°18'36.125"N	104°24'31.793"W	2.84	
11441.00	89.850	180.950	6326.13	4668.77	-3387.78	-3281.49	40°18'35.245"N	104°24'31.781"W	3.65	
11529.00	90.000	181.880	6326.25	4741.28	-3475.75	-3283.66	40°18'34.376"N	104°24'31.809"W	1.07	
11616.00	89.660	180.360	6326.50	4812.71	-3562.73	-3285.36	40°18'33.516"N	104°24'31.830"W	1.79	
11704.00	90.090	179.390	6326.70	4883.85	-3650.73	-3285.17	40°18'32.647"N	104°24'31.828"W	1.21	
11792.00	90.060	179.200	6326.58	4954.47	-3738.72	-3284.09	40°18'31.777"N	104°24'31.814"W	0.22	
11880.00	90.060	179.950	6326.49	5025.34	-3826.72	-3283.43	40°18'30.908"N	104°24'31.805"W	0.85	
11968.00	89.880	180.670	6326.53	5096.87	-3914.72	-3283.91	40°18'30.038"N	104°24'31.811"W	0.84	
12057.00	90.030	181.780	6326.60	5170.04	-4003.69	-3285.81	40°18'29.159"N	104°24'31.836"W	1.26	
12234.00	89.690	175.790	6327.04	5311.06	-4180.57	-3282.06	40°18'27.411"N	104°24'31.787"W	3.39	
12323.00	89.450	172.000	6327.70	5377.15	-4269.05	-3272.60	40°18'26.537"N	104°24'31.665"W	4.27	
12410.00	89.850	176.160	6328.24	5441.94	-4355.56	-3263.63	40°18'25.682"N	104°24'31.549"W	4.80	
12497.00	89.820	180.340	6328.49	5510.78	-4442.50	-3260.97	40°18'24.823"N	104°24'31.514"W	4.80	
12568.00	89.970	184.270	6328.62	5569.88	-4513.43	-3263.82	40°18'24.122"N	104°24'31.551"W	5.54	Last BHI MWD Survey
12593.00	89.970	184.270	6328.63	5591.16	-4538.36	-3265.69	40°18'23.875"N	104°24'31.575"W	0.00	Projection to Bit

HOLE & CASING SECTIONS									
- Ref Wellbore: LATHAM F21-J24-14HNB AWB					Ref Wellpath: LATHAM F21-J24-14HNB 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	1614.00	1597.00	17.00	1613.25	0.00	0.00	0.62	25.65

Actual Wellpath Report

LATHAM F21-J24-14HNB AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK ENERGY	Slot	SLOT#05 LATHAM F21-J24-14HNB (332'FNL & 333'FEL, SEC.14)
Area	COLORADO	Well	LATHAM F21-J24-14HNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	LATHAM F21-J24-14HNB 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 F21-J24-14HNB BHL PLAT (470'FSL & 1618'FWL, SEC.14)	6310.70	-4543.12	-3292.44	3304302.83	1356414.54	40°18'23.828"N	104°24'31.920"W	point
LATHAM F21-J24-14HNB LP PLAT (260'FNL & 1627'FWL, SEC.14)	6310.70	0.78	-3349.25	3304189.52	1360957.18	40°19'08.730"N	104°24'32.661"W	point
LATHAM F21-J24-14HNB BHL REV-1 (470'FSL & 1618'FWL, SEC.14)	6316.00	-4543.16	-3292.43	3304302.84	1356414.50	40°18'23.828"N	104°24'31.920"W	point
LATHAM F21-J24-14HNB LP REV-1 (260'FNL & 1627'FWL, SEC.14)	6316.00	0.76	-3349.22	3304189.54	1360957.17	40°19'08.730"N	104°24'32.661"W	point
SEC.14-T04N-R63W (470'FSL, 260'FOL)	16619.70	-2274.92	-2297.17	3305269.76	1358694.84	40°18'46.243"N	104°24'19.076"W	polygon
SEC.14-T04N-R63W	16620.70	-2353.90	-2295.99	3305271.94	1358615.89	40°18'45.463"N	104°24'19.061"W	polygon

WELLPATH COMPOSITION - Ref Wellbore: LATHAM F21-J24-14HNB AWB					Ref Wellpath: LATHAM F21-J24-14HNB 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 F21-J24-14HNB AWB	
1581.00	12568.00	BHI AutoTrak Curve (Short)	BHI ATC 8.5" (SHORT)<1667-12568>		LATHAM F21-J24-14HNB AWB	
12568.00	12593.00	Blind Drilling (std)	Projection to bit		LATHAM F21-J24-14HNB AWB	

Actual Wellpath Report

LATHAM F21-J24-14HNB AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK ENERGY	Slot	SLOT#05 LATHAM F21-J24-14HNB (332'FNL & 333'FEL, SEC.14)
Area	COLORADO	Well	LATHAM F21-J24-14HNB
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	LATHAM F21-J24-14HNB AWB
Facility	SEC.14-T04N-R63W		

WELLPATH COMMENTS				
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
12568.00	89.970	184.270	6328.62	Last BHI MWD Survey
12593.00	89.970	184.270	6328.63	Projection to Bit