

BONANZA CREEK ENERGY

Location: COLORADO

Field: WELD COUNTY (NAD83/TRUE)

Facility: SEC.14-T04N-R63W

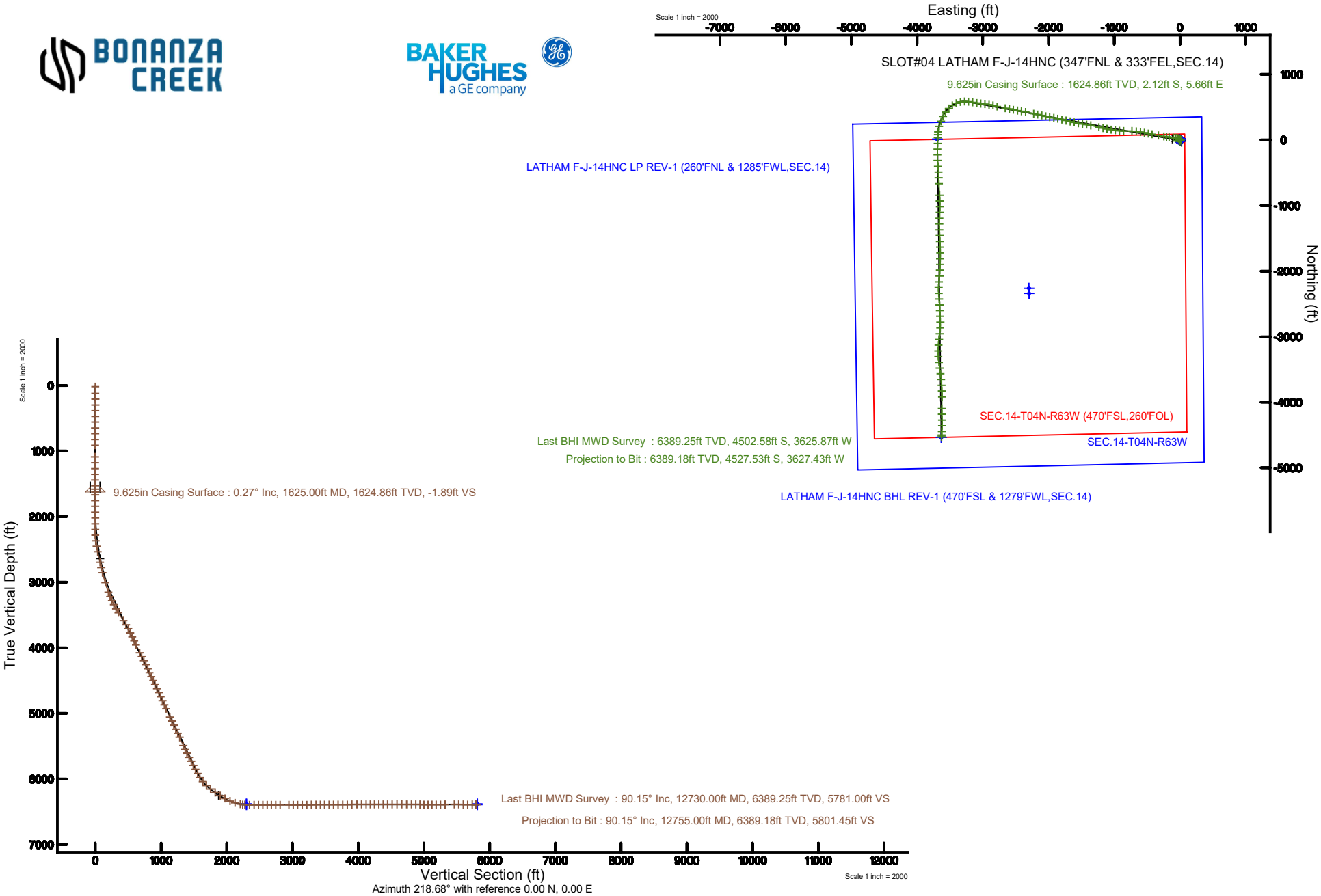
Slot: SLOT#04 LATHAM F-J-14HNC (347°FNL & 333°FEL,SEC.14)

Well: LATHAM F-J-14HNC

Wellbore: LATHAM F-J-14HNC PWB

05-123-49897-00

Plot reference wellpath is LATHAM F-J-14HNC (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: SLOT#04 LATHAM F-J-14HNC (347°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 F-J-14HNC AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK ENERGY	Slot	SLOT#04 LATHAM F-J-14HNC (347'FNL & 333'FEL, SEC.14)
Area	COLORADO	Well	LATHAM F-J-14HNC
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	LATHAM F-J-14HNC 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 1:59:35 PM
Convergence at slot	0.71° East	Database/Source file	WellArchitectDB/LATHAM_F-J-14HNC_AWP.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-156.27	-152.50	3307538.55	1360983.09	40°19'08.577"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#04 LATHAM F-J-14HNC (347'FNL & 333'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	218.68°

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REFERENCE WELLPATH IDENTIFICATION			
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Area	COLORADO	Well	LATHAM F-J-14HNC
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	LATHAM F-J-14HNC AWP
Facility	SEC.14-T04N-R63W		

WELLPATH DATA (139 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	288.910	0.00	0.00	0.00	0.00	40°19'08.577"N	104°23'49.423"W	0.00	
17.00	0.000	288.910	17.00	0.00	0.00	0.00	40°19'08.577"N	104°23'49.423"W	0.00	
121.00	0.800	288.910	121.00	0.25	0.24	-0.69	40°19'08.579"N	104°23'49.432"W	0.77	
209.00	0.860	257.760	208.99	0.97	0.29	-1.91	40°19'08.580"N	104°23'49.448"W	0.51	
297.00	0.580	74.590	296.99	1.12	0.27	-2.13	40°19'08.579"N	104°23'49.450"W	1.64	
384.00	0.490	61.390	383.98	0.42	0.57	-1.38	40°19'08.582"N	104°23'49.441"W	0.17	
472.00	0.510	42.190	471.98	-0.32	1.04	-0.78	40°19'08.587"N	104°23'49.433"W	0.19	
558.00	0.460	37.150	557.98	-1.05	1.60	-0.32	40°19'08.593"N	104°23'49.427"W	0.08	
647.00	0.660	355.080	646.97	-1.78	2.39	-0.15	40°19'08.600"N	104°23'49.425"W	0.50	
736.00	0.800	354.980	735.96	-2.60	3.52	-0.25	40°19'08.612"N	104°23'49.426"W	0.16	
824.00	0.980	90.750	823.96	-3.50	4.12	0.45	40°19'08.618"N	104°23'49.417"W	1.51	
912.00	0.920	82.010	911.95	-4.48	4.21	1.90	40°19'08.618"N	104°23'49.398"W	0.18	
1088.00	1.170	141.710	1087.92	-5.10	3.00	4.42	40°19'08.606"N	104°23'49.366"W	0.60	
1177.00	1.290	143.300	1176.90	-4.64	1.48	5.58	40°19'08.591"N	104°23'49.351"W	0.14	
1267.00	1.260	153.320	1266.88	-3.98	-0.21	6.63	40°19'08.575"N	104°23'49.337"W	0.25	
1354.00	0.320	237.250	1353.87	-3.35	-1.20	6.85	40°19'08.565"N	104°23'49.334"W	1.46	
1442.00	0.490	269.490	1441.87	-2.88	-1.34	6.27	40°19'08.564"N	104°23'49.342"W	0.32	
1529.00	0.250	206.290	1528.87	-2.46	-1.51	5.82	40°19'08.562"N	104°23'49.348"W	0.50	
1581.00	0.490	192.540	1580.87	-2.15	-1.83	5.72	40°19'08.559"N	104°23'49.349"W	0.49	
1668.00	0.070	152.300	1667.86	-1.79	-2.24	5.66	40°19'08.555"N	104°23'49.350"W	0.50	
1755.00	0.160	89.450	1754.86	-1.85	-2.28	5.81	40°19'08.554"N	104°23'49.348"W	0.16	
1843.00	0.000	7.070	1842.86	-1.92	-2.28	5.93	40°19'08.554"N	104°23'49.346"W	0.18	
1931.00	1.520	300.600	1930.85	-1.76	-1.69	4.93	40°19'08.560"N	104°23'49.359"W	1.73	
2019.00	3.940	298.880	2018.75	-1.08	0.36	1.27	40°19'08.580"N	104°23'49.406"W	2.75	
2108.00	6.760	312.200	2107.35	-0.88	5.36	-5.29	40°19'08.630"N	104°23'49.491"W	3.44	
2196.00	9.220	311.570	2194.49	-1.55	13.52	-14.40	40°19'08.710"N	104°23'49.609"W	2.80	
2284.00	10.550	298.510	2281.20	-0.49	22.04	-26.76	40°19'08.795"N	104°23'49.768"W	2.95	
2372.00	13.570	280.090	2367.27	5.88	27.70	-44.01	40°19'08.851"N	104°23'49.991"W	5.52	
2460.00	18.380	274.140	2451.86	18.70	30.51	-68.03	40°19'08.878"N	104°23'50.301"W	5.77	
2549.00	21.260	274.460	2535.58	35.73	32.78	-98.11	40°19'08.901"N	104°23'50.689"W	3.24	

Actual Wellpath Report

LATHAM F-J-14HNC AWP

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Operator	BONANZA CREEK ENERGY	Slot	SLOT#04 LATHAM F-J-14HNC (347'FNL & 333'FEL, SEC.14)
Area	COLORADO	Well	LATHAM F-J-14HNC
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	LATHAM F-J-14HNC AWP
Facility	SEC.14-T04N-R63W		

WELLPATH DATA (139 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
2723.00	24.550	278.710	2695.85	71.54	40.71	-165.32	40°19'08.979"N	104°23'51.557"W	2.12	
2812.00	26.590	279.220	2776.12	90.58	46.70	-203.26	40°19'09.038"N	104°23'52.047"W	2.31	
2900.00	28.130	279.760	2854.28	110.30	53.38	-243.15	40°19'09.104"N	104°23'52.562"W	1.77	
3074.00	31.480	280.380	3005.24	151.68	68.52	-328.28	40°19'09.254"N	104°23'53.661"W	1.93	
3250.00	36.210	279.970	3151.38	198.47	85.81	-424.74	40°19'09.425"N	104°23'54.906"W	2.69	
3338.00	42.850	279.640	3219.21	225.52	95.33	-479.90	40°19'09.519"N	104°23'55.618"W	7.55	
3426.00	46.720	284.110	3281.67	253.38	108.16	-540.51	40°19'09.646"N	104°23'56.401"W	5.67	
3514.00	45.530	279.720	3342.68	281.91	121.27	-602.54	40°19'09.775"N	104°23'57.202"W	3.84	
3603.00	46.140	276.040	3404.70	314.60	130.01	-665.76	40°19'09.861"N	104°23'58.018"W	3.04	
3692.00	47.420	271.880	3465.66	351.55	134.47	-730.44	40°19'09.905"N	104°23'58.853"W	3.70	
3869.00	45.640	270.350	3587.43	429.83	136.99	-858.85	40°19'09.930"N	104°24'00.511"W	1.19	
3956.00	45.560	273.750	3648.31	466.91	139.21	-920.96	40°19'09.952"N	104°24'01.312"W	2.79	
4045.00	45.460	278.430	3710.70	501.09	145.94	-984.05	40°19'10.019"N	104°24'02.127"W	3.75	
4133.00	45.990	281.110	3772.14	531.54	156.64	-1046.13	40°19'10.124"N	104°24'02.928"W	2.26	
4221.00	46.520	279.730	3832.98	561.65	168.13	-1108.66	40°19'10.238"N	104°24'03.736"W	1.28	
4308.00	45.710	282.080	3893.30	590.87	179.98	-1170.22	40°19'10.355"N	104°24'04.530"W	2.16	
4397.00	45.860	282.780	3955.36	619.09	193.71	-1232.51	40°19'10.491"N	104°24'05.335"W	0.59	
4573.00	46.500	282.620	4077.22	674.72	221.63	-1356.39	40°19'10.767"N	104°24'06.934"W	0.37	
4660.00	47.540	278.060	4136.55	704.94	233.03	-1418.98	40°19'10.879"N	104°24'07.742"W	4.02	
4749.00	47.010	278.100	4196.94	738.22	242.22	-1483.71	40°19'10.970"N	104°24'08.578"W	0.60	
4837.00	45.670	282.160	4257.70	768.66	253.39	-1546.36	40°19'11.080"N	104°24'09.386"W	3.67	
4926.00	46.340	283.230	4319.52	796.70	267.46	-1608.82	40°19'11.219"N	104°24'10.193"W	1.15	
5014.00	46.230	281.970	4380.34	824.67	281.33	-1670.89	40°19'11.356"N	104°24'10.994"W	1.04	
5102.00	46.670	283.180	4440.97	852.73	295.22	-1733.14	40°19'11.494"N	104°24'11.798"W	1.11	
5190.00	46.510	281.970	4501.44	880.86	309.14	-1795.53	40°19'11.631"N	104°24'12.603"W	1.02	
5278.00	46.640	282.470	4561.94	909.34	322.67	-1857.99	40°19'11.765"N	104°24'13.410"W	0.44	
5366.00	46.380	281.090	4622.50	938.22	335.70	-1920.49	40°19'11.893"N	104°24'14.216"W	1.18	
5454.00	44.910	281.720	4684.02	967.06	348.14	-1982.17	40°19'12.016"N	104°24'15.013"W	1.75	
5541.00	44.060	281.840	4746.09	994.64	360.59	-2041.84	40°19'12.139"N	104°24'15.783"W	0.98	
5628.00	44.900	280.920	4808.16	1022.60	372.61	-2101.60	40°19'12.258"N	104°24'16.555"W	1.22	

Actual Wellpath Report

LATHAM F-J-14HNC AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	BONANZA CREEK ENERGY	Slot	SLOT#04 LATHAM F-J-14HNC (347'FNL & 333'FEL, SEC.14)
Area	COLORADO	Well	LATHAM F-J-14HNC
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	LATHAM F-J-14HNC AWP
Facility	SEC.14-T04N-R63W		

WELLPATH DATA (139 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
5717.00	46.620	283.650	4870.26	1050.92	386.20	-2163.89	40°19'12.392"N	104°24'17.359"W	2.93	
5805.00	45.860	282.290	4931.13	1078.49	400.47	-2225.82	40°19'12.533"N	104°24'18.158"W	1.41	
5982.00	44.920	280.920	5055.43	1135.83	425.82	-2349.24	40°19'12.784"N	104°24'19.752"W	0.77	
6070.00	45.460	279.830	5117.45	1165.44	437.06	-2410.65	40°19'12.895"N	104°24'20.545"W	1.07	
6159.00	45.580	280.090	5179.81	1195.95	448.05	-2473.19	40°19'13.003"N	104°24'21.352"W	0.25	
6246.00	44.730	281.480	5241.16	1224.82	459.58	-2533.78	40°19'13.117"N	104°24'22.134"W	1.50	
6334.00	45.820	281.580	5303.09	1253.35	472.08	-2595.04	40°19'13.240"N	104°24'22.925"W	1.24	
6422.00	44.520	278.810	5365.13	1283.09	483.14	-2656.45	40°19'13.350"N	104°24'23.718"W	2.68	
6599.00	47.080	285.800	5488.60	1339.24	510.31	-2780.23	40°19'13.618"N	104°24'25.316"W	3.18	
6688.00	46.610	282.190	5549.48	1366.34	526.02	-2843.21	40°19'13.773"N	104°24'26.129"W	3.01	
6774.00	46.530	279.110	5608.61	1395.69	537.56	-2904.57	40°19'13.887"N	104°24'26.921"W	2.60	
6862.00	46.450	276.770	5669.20	1428.31	546.37	-2967.77	40°19'13.974"N	104°24'27.737"W	1.93	
6951.00	44.560	278.410	5731.58	1461.10	554.74	-3030.70	40°19'14.057"N	104°24'28.550"W	2.50	
7039.00	45.900	278.990	5793.55	1492.31	564.20	-3092.45	40°19'14.150"N	104°24'29.347"W	1.59	
7127.00	46.330	277.700	5854.55	1524.35	573.40	-3155.20	40°19'14.241"N	104°24'30.157"W	1.16	
7215.00	44.550	278.660	5916.30	1556.18	582.31	-3217.26	40°19'14.329"N	104°24'30.958"W	2.17	
7303.00	44.460	269.710	5979.12	1591.04	586.81	-3278.66	40°19'14.373"N	104°24'31.751"W	7.13	
7392.00	46.800	257.910	6041.47	1635.86	579.84	-3341.67	40°19'14.304"N	104°24'32.564"W	9.83	
7479.00	50.180	246.290	6099.23	1690.15	559.72	-3403.40	40°19'14.106"N	104°24'33.361"W	10.72	
7568.00	52.200	234.660	6155.12	1754.38	525.57	-3463.51	40°19'13.768"N	104°24'34.137"W	10.42	
7655.00	56.870	226.540	6205.64	1823.62	480.55	-3518.08	40°19'13.323"N	104°24'34.842"W	9.30	
7744.00	58.850	215.870	6253.09	1898.74	423.93	-3567.55	40°19'12.763"N	104°24'35.480"W	10.39	
7831.00	60.870	203.390	6296.90	1972.80	358.69	-3604.56	40°19'12.119"N	104°24'35.958"W	12.61	
7920.00	66.980	201.520	6336.00	2049.51	284.84	-3635.05	40°19'11.389"N	104°24'36.352"W	7.12	
8008.00	74.710	197.700	6364.86	2127.98	206.59	-3662.86	40°19'10.616"N	104°24'36.710"W	9.69	
8097.00	80.360	186.550	6384.12	2205.50	121.78	-3680.98	40°19'09.778"N	104°24'36.944"W	13.78	
8141.00	84.860	182.160	6389.78	2241.51	78.30	-3684.29	40°19'09.348"N	104°24'36.987"W	14.23	
8185.00	88.740	180.630	6392.24	2276.46	34.39	-3685.36	40°19'08.914"N	104°24'37.001"W	9.48	
8272.00	89.720	181.200	6393.41	2345.23	-52.59	-3686.74	40°19'08.054"N	104°24'37.018"W	1.30	
8360.00	90.090	181.830	6393.55	2415.35	-140.56	-3689.07	40°19'07.185"N	104°24'37.048"W	0.83	

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Field	WELD COUNTY (NAD83/TRUE)	Wellbore	LATHAM F-J-14HNC AWB
Facility	SEC.14-T04N-R63W		

WELLPATH DATA (139 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
8446.00	89.910	180.200	6393.55	2483.42	-226.54	-3690.59	40°19'06.335"N	104°24'37.068"W	1.91	
8534.00	90.120	177.350	6393.53	2550.92	-314.51	-3688.71	40°19'05.466"N	104°24'37.043"W	3.25	
8623.00	90.090	173.430	6393.37	2615.69	-403.21	-3681.56	40°19'04.590"N	104°24'36.951"W	4.40	
8710.00	90.060	176.680	6393.25	2678.66	-489.87	-3674.06	40°19'03.733"N	104°24'36.854"W	3.74	
8799.00	89.910	179.810	6393.28	2746.39	-578.82	-3671.34	40°19'02.854"N	104°24'36.818"W	3.52	
8887.00	90.060	176.270	6393.30	2813.15	-666.75	-3668.33	40°19'01.985"N	104°24'36.779"W	4.03	
9063.00	89.750	177.120	6393.59	2943.97	-842.46	-3658.18	40°19'00.249"N	104°24'36.648"W	0.51	
9151.00	90.000	178.700	6393.78	3010.62	-930.40	-3654.97	40°18'59.380"N	104°24'36.606"W	1.82	
9239.00	90.090	180.110	6393.72	3078.73	-1018.39	-3654.06	40°18'58.511"N	104°24'36.594"W	1.61	
9326.00	89.940	181.700	6393.69	3147.50	-1105.38	-3655.43	40°18'57.651"N	104°24'36.612"W	1.84	
9415.00	90.460	183.140	6393.38	3219.26	-1194.29	-3659.19	40°18'56.772"N	104°24'36.660"W	1.72	
9503.00	90.620	180.360	6392.55	3289.59	-1282.24	-3661.88	40°18'55.903"N	104°24'36.695"W	3.16	
9591.00	90.310	177.950	6391.84	3357.46	-1370.22	-3660.58	40°18'55.034"N	104°24'36.678"W	2.76	
9680.00	90.370	177.100	6391.31	3424.47	-1459.14	-3656.74	40°18'54.155"N	104°24'36.628"W	0.96	
9767.00	89.910	176.990	6391.10	3489.49	-1546.02	-3652.25	40°18'53.297"N	104°24'36.570"W	0.54	
9856.00	89.970	178.080	6391.19	3556.51	-1634.94	-3648.42	40°18'52.418"N	104°24'36.521"W	1.23	
9943.00	89.940	179.610	6391.26	3623.31	-1721.92	-3646.67	40°18'51.559"N	104°24'36.498"W	1.76	
10032.00	90.000	182.130	6391.31	3693.62	-1810.90	-3648.02	40°18'50.679"N	104°24'36.515"W	2.83	
10120.00	89.720	181.730	6391.52	3764.13	-1898.85	-3650.99	40°18'49.810"N	104°24'36.553"W	0.55	
10207.00	91.630	182.210	6390.50	3833.86	-1985.79	-3653.98	40°18'48.951"N	104°24'36.592"W	2.26	
10295.00	90.650	183.960	6388.75	3905.40	-2073.64	-3658.71	40°18'48.083"N	104°24'36.653"W	2.28	
10385.00	90.280	185.300	6388.01	3979.97	-2163.34	-3665.98	40°18'47.196"N	104°24'36.746"W	1.54	
10472.00	89.940	182.320	6387.85	4051.34	-2250.14	-3671.76	40°18'46.339"N	104°24'36.821"W	3.45	
10560.00	90.120	176.160	6387.80	4119.26	-2338.09	-3670.59	40°18'45.470"N	104°24'36.805"W	7.00	
10648.00	89.970	174.650	6387.73	4183.33	-2425.80	-3663.54	40°18'44.603"N	104°24'36.714"W	1.72	
10736.00	90.030	178.350	6387.73	4248.53	-2513.62	-3658.17	40°18'43.735"N	104°24'36.645"W	4.21	
10824.00	90.090	176.920	6387.64	4314.90	-2601.54	-3654.54	40°18'42.866"N	104°24'36.598"W	1.63	
10912.00	89.970	175.900	6387.59	4380.01	-2689.37	-3649.03	40°18'41.998"N	104°24'36.526"W	1.17	
11001.00	90.180	179.500	6387.48	4447.19	-2778.28	-3645.46	40°18'41.120"N	104°24'36.480"W	4.05	
11089.00	90.620	183.320	6386.86	4517.20	-2866.24	-3647.62	40°18'40.251"N	104°24'36.508"W	4.37	

Actual Wellpath Report

LATHAM F-J-14HNC AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	BONANZA CREEK ENERGY	Slot	SLOT#04 LATHAM F-J-14HNC (347'FNL & 333'FEL,SEC.14)
Area	COLORADO	Well	LATHAM F-J-14HNC
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	LATHAM F-J-14HNC AWB
Facility	SEC.14-T04N-R63W		

WELLPATH DATA (139 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
11177.00	90.400	186.960	6386.08	4590.53	-2953.87	-3655.50	40°18'39.385"N	104°24'36.609"W	4.14	
11264.00	89.660	185.890	6386.03	4664.11	-3040.32	-3665.24	40°18'38.530"N	104°24'36.735"W	1.50	
11352.00	89.820	184.390	6386.43	4737.45	-3127.96	-3673.12	40°18'37.664"N	104°24'36.837"W	1.71	
11441.00	89.420	181.330	6387.02	4809.61	-3216.84	-3677.56	40°18'36.786"N	104°24'36.894"W	3.47	
11529.00	89.380	176.000	6387.95	4876.97	-3304.78	-3675.51	40°18'35.917"N	104°24'36.867"W	6.06	
11616.00	89.420	172.560	6388.86	4939.12	-3391.33	-3666.84	40°18'35.062"N	104°24'36.755"W	3.95	
11704.00	89.480	172.310	6389.70	4999.97	-3478.56	-3655.26	40°18'34.200"N	104°24'36.605"W	0.29	
11792.00	89.080	172.780	6390.81	5060.95	-3565.80	-3643.84	40°18'33.338"N	104°24'36.458"W	0.70	
11880.00	90.120	174.110	6391.42	5122.91	-3653.22	-3633.80	40°18'32.474"N	104°24'36.328"W	1.92	
11968.00	90.580	176.130	6390.88	5186.67	-3740.90	-3626.31	40°18'31.607"N	104°24'36.231"W	2.35	
12057.00	90.620	178.040	6389.95	5253.23	-3829.77	-3621.79	40°18'30.729"N	104°24'36.173"W	2.15	
12145.00	90.680	180.890	6388.95	5321.39	-3917.76	-3620.96	40°18'29.860"N	104°24'36.162"W	3.24	
12323.00	89.910	180.270	6388.04	5461.46	-4095.74	-3622.77	40°18'28.101"N	104°24'36.185"W	0.56	
12410.00	89.600	179.540	6388.41	5529.29	-4182.74	-3622.62	40°18'27.241"N	104°24'36.183"W	0.91	
12498.00	89.420	178.670	6389.16	5597.11	-4270.73	-3621.25	40°18'26.372"N	104°24'36.165"W	1.01	
12585.00	90.060	180.080	6389.56	5664.43	-4357.72	-3620.30	40°18'25.512"N	104°24'36.152"W	1.78	
12672.00	90.150	182.930	6389.40	5733.74	-4444.68	-3622.58	40°18'24.653"N	104°24'36.182"W	3.28	
12730.00	90.150	183.570	6389.25	5781.00	-4502.58	-3625.87	40°18'24.081"N	104°24'36.224"W	1.10	Last BHI MWD Survey
12755.00	90.150	183.570	6389.18	5801.45	-4527.53	-3627.43	40°18'23.834"N	104°24'36.244"W	0.00	Projection to Bit

HOLE & CASING SECTIONS

- Ref Wellbore: LATHAM F-J-14HNC AWB Ref Wellpath: LATHAM F-J-14HNC 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	1624.86	0.00	0.00	-2.12	5.66

Actual Wellpath Report

LATHAM F-J-14HNC AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK ENERGY	Slot	SLOT#04 LATHAM F-J-14HNC (347'FNL & 333'FEL,SEC.14)
Area	COLORADO	Well	LATHAM F-J-14HNC
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	LATHAM F-J-14HNC 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 F-J-14HNC BHL PLAT (470'FSL & 1279'FWL,SEC.14)	6380.90	-4535.65	-3631.28	3303964.12	1356402.84	40°18'23.754"N	104°24'36.294"W	point
LATHAM F-J-14HNC LP PLAT (260'FNL & 1285'FWL,SEC.14)	6380.90	8.47	-3691.10	3303847.80	1360945.65	40°19'08.658"N	104°24'37.075"W	point
LATHAM F-J-14HNC BHL REV-1 (470'FSL & 1279'FWL,SEC.14)	6391.00	-4535.63	-3631.30	3303964.10	1356402.85	40°18'23.754"N	104°24'36.294"W	point
LATHAM F-J-14HNC LP REV-1 (260'FNL & 1285'FWL,SEC.14)	6391.00	8.49	-3691.13	3303847.77	1360945.68	40°19'08.658"N	104°24'37.075"W	point
SEC.14-T04N-R63W (470'FSL,260'FOL)	16619.90	-2259.95	-2297.17	3305269.76	1358694.84	40°18'46.243"N	104°24'19.076"W	polygon
SEC.14-T04N-R63W	16620.90	-2338.93	-2295.99	3305271.94	1358615.89	40°18'45.463"N	104°24'19.061"W	polygon

WELLPATH COMPOSITION - Ref Wellbore: LATHAM F-J-14HNC AWB Ref Wellpath: LATHAM F-J-14HNC 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 F-J-14HNC AWB
1581.00	12730.00	BHI AutoTrak Curve (Short)	BHI ATC 8.5" (SHORT)<1668-12730>	LATHAM F-J-14HNC AWB
12730.00	12755.00	Blind Drilling (std)	Projection to bit	LATHAM F-J-14HNC AWB

Actual Wellpath Report

LATHAM F-J-14HNC AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK ENERGY	Slot	SLOT#04 LATHAM F-J-14HNC (347'FNL & 333'FEL,SEC.14)
Area	COLORADO	Well	LATHAM F-J-14HNC
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	LATHAM F-J-14HNC AWB
Facility	SEC.14-T04N-R63W		

WELLPATH COMMENTS				
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
12730.00	90.150	183.570	6389.25	Last BHI MWD Survey
12755.00	90.150	183.570	6389.18	Projection to Bit