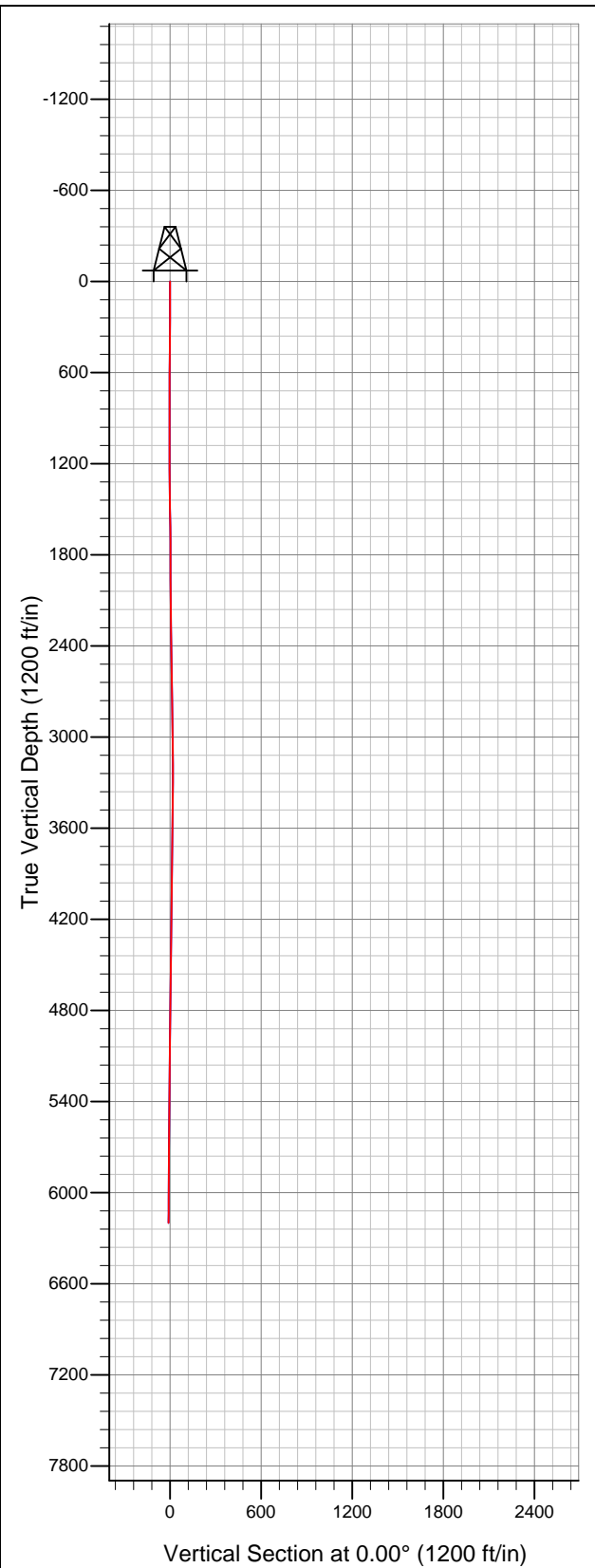




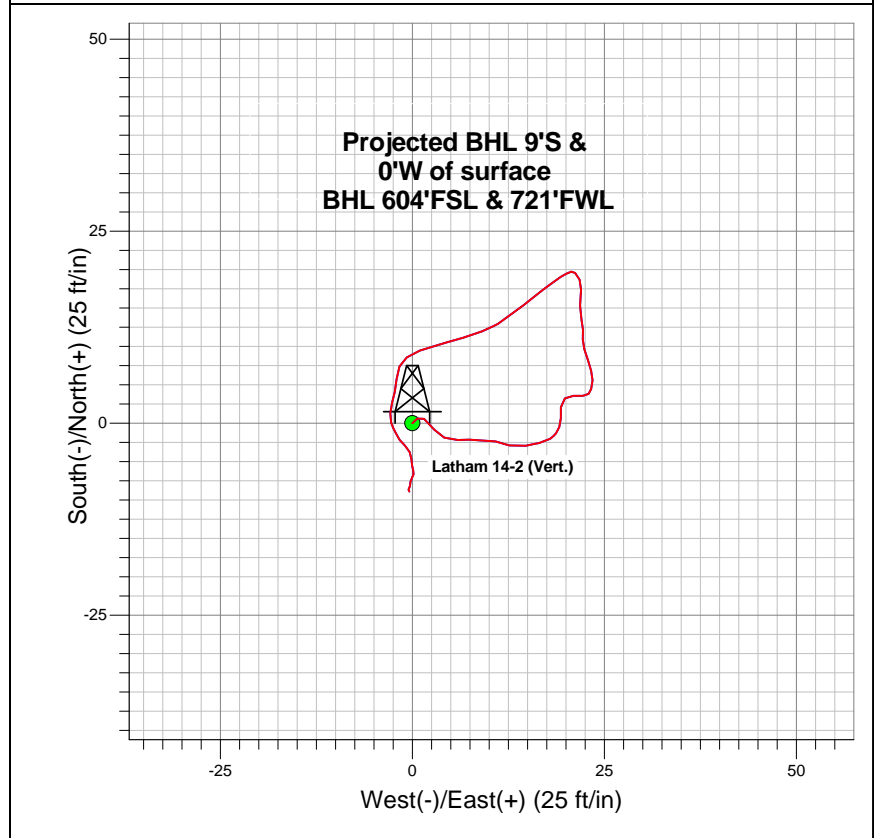
Well Name: Latham 14-2 (Vert.)

Surface Location: Latham 14-11-2HZ Pad Sec.2-T4N-R63W
 North American Datum 1983 US State Plane 1983Colorado Northern Zone
 Ground Elevation: 4539.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1367027.85	3303145.34	40.335790	-104.412550	
		Original Well Elev	WELL @ 4554.0ft (Original Well Elev)			



BONANZA CREEK ENERGY OPERATING



LEGEND

○ Survey #1

Final Survey Plot

Projected Final Survey -
 6201'MD & 6200'TVD @ -9'VS
 0.30 deg Inc 124.80 deg AZ

Project: SEC.2-T4N-R63W
 Site: Latham 14-11-2HZ Pad Sec.2-T4N-R63W
 Well: Latham 14-2 (Exist.)
 Plan: Wellbore #1



BONANZA CREEK ENERGY OPERATING

SEC.2-T4N-R63W

Latham 14-11-2HZ Pad Sec.2-T4N-R63W

Latham 14-2 (Exist.)

Wellbore #1

Survey: Survey #1

Standard Survey Report

22 August, 2012

Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well Latham 14-2 (Exist.)
Project:	SEC.2-T4N-R63W	TVD Reference:	WELL @ 4554.0ft (Original Well Elev)
Site:	Latham 14-11-2HZ Pad Sec.2-T4N-R63W	MD Reference:	WELL @ 4554.0ft (Original Well Elev)
Well:	Latham 14-2 (Exist.)	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Project	SEC.2-T4N-R63W, Weld County, Colorado		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		Using Well Reference Point
Map Zone:	Colorado Northern Zone		Using geodetic scale factor

Site	Latham 14-11-2HZ Pad Sec.2-T4N-R63W				
Site Position:		Northing:	1,367,028.03ft	Latitude:	40.335790
From:	Lat/Long	Easting:	3,303,159.28ft	Longitude:	-104.412500
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.70 °

Well	Latham 14-2 (Exist.)					
Well Position	+N/-S	0.0 ft	Northing:	1,367,027.85 ft	Latitude:	40.335790
	+E/-W	0.0 ft	Easting:	3,303,145.34 ft	Longitude:	-104.412550
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,539.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	6/22/2012	8.53	67.02	53,030

Design	Wellbore #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.0	0.0	0.0	0.00	

Survey Program	Date	8/22/2012			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
253.0	6,201.0	Survey #1 (Wellbore #1)	MWD	MWD - Standard	

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
253.0	0.40	47.40	253.0	0.6	0.7	0.6	0.16	0.16	0.00	
522.0	1.10	144.60	522.0	-0.9	2.8	-0.9	0.45	0.26	36.13	
613.0	1.10	109.60	613.0	-1.9	4.2	-1.9	0.73	0.00	-38.46	
706.0	1.10	91.40	705.9	-2.2	5.9	-2.2	0.37	0.00	-19.57	
786.0	1.10	86.30	785.9	-2.2	7.4	-2.2	0.12	0.00	-6.38	
965.0	1.10	101.00	964.9	-2.4	10.8	-2.4	0.16	0.00	8.21	
1,059.0	1.20	110.70	1,058.9	-2.9	12.6	-2.9	0.23	0.11	10.32	
1,151.0	1.60	76.80	1,150.9	-3.0	14.8	-3.0	0.98	0.43	-36.85	
1,182.0	1.60	79.20	1,181.8	-2.8	15.6	-2.8	0.22	0.00	7.74	
1,212.0	1.80	78.50	1,211.8	-2.6	16.5	-2.6	0.67	0.67	-2.33	
1,275.0	1.10	53.50	1,274.8	-2.0	18.0	-2.0	1.47	-1.11	-39.68	
1,307.0	1.00	44.20	1,306.8	-1.7	18.4	-1.7	0.62	-0.31	-29.06	

Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well Latham 14-2 (Exist.)
Project:	SEC.2-T4N-R63W	TVD Reference:	WELL @ 4554.0ft (Original Well Elev)
Site:	Latham 14-11-2HZ Pad Sec.2-T4N-R63W	MD Reference:	WELL @ 4554.0ft (Original Well Elev)
Well:	Latham 14-2 (Exist.)	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
1,338.0	0.50	36.20	1,337.8	-1.4	18.7	-1.4	1.64	-1.61	-25.81	
1,430.0	0.70	23.90	1,429.8	-0.5	19.1	-0.5	0.26	0.22	-13.37	
1,523.0	0.80	355.60	1,522.8	0.6	19.3	0.6	0.41	0.11	-30.43	
1,617.0	0.90	4.00	1,616.8	2.0	19.3	2.0	0.17	0.11	8.94	
1,711.0	0.80	47.00	1,710.8	3.2	19.9	3.2	0.67	-0.11	45.74	
1,804.0	0.80	100.50	1,803.8	3.5	21.0	3.5	0.77	0.00	57.53	
1,899.0	0.70	79.20	1,898.8	3.5	22.2	3.5	0.31	-0.11	-22.42	
1,992.0	0.30	53.40	1,991.7	3.8	22.9	3.8	0.48	-0.43	-27.74	
2,086.0	0.60	16.80	2,085.7	4.4	23.3	4.4	0.43	0.32	-38.94	
2,182.0	0.80	2.20	2,181.7	5.6	23.5	5.6	0.28	0.21	-15.21	
2,274.0	0.80	342.10	2,273.7	6.8	23.3	6.8	0.30	0.00	-21.85	
2,367.0	1.00	344.80	2,366.7	8.2	22.9	8.2	0.22	0.22	2.90	
2,460.0	0.80	337.90	2,459.7	9.6	22.4	9.6	0.24	-0.22	-7.42	
2,554.0	0.80	1.30	2,553.7	10.9	22.2	10.9	0.35	0.00	24.89	
2,647.0	0.80	0.00	2,646.7	12.2	22.2	12.2	0.02	0.00	-1.40	
2,741.0	0.80	345.90	2,740.7	13.4	22.0	13.4	0.21	0.00	-15.00	
2,867.0	0.90	0.60	2,866.7	15.3	21.8	15.3	0.19	0.08	11.67	
2,992.0	1.00	6.70	2,991.7	17.4	22.0	17.4	0.11	0.08	4.88	
3,086.0	0.70	331.70	3,085.6	18.7	21.8	18.7	0.62	-0.32	-37.23	
3,180.0	0.60	315.60	3,179.6	19.5	21.2	19.5	0.22	-0.11	-17.13	
3,242.0	0.50	256.50	3,241.6	19.7	20.7	19.7	0.89	-0.16	-95.32	
3,305.0	0.70	241.50	3,304.6	19.5	20.1	19.5	0.40	0.32	-23.81	
3,367.0	0.90	240.50	3,366.6	19.0	19.3	19.0	0.32	0.32	-1.61	
3,463.0	1.00	229.80	3,462.6	18.1	18.0	18.1	0.21	0.10	-11.15	
3,526.0	1.40	235.50	3,525.6	17.3	17.0	17.3	0.66	0.63	9.05	
3,649.0	1.60	228.20	3,648.6	15.3	14.5	15.3	0.22	0.16	-5.93	
3,806.0	1.40	240.30	3,805.5	12.9	11.2	12.9	0.24	-0.13	7.71	
3,837.0	1.40	245.80	3,836.5	12.6	10.5	12.6	0.43	0.00	17.74	
3,899.0	1.50	245.40	3,898.5	11.9	9.1	11.9	0.16	0.16	-0.65	
3,992.0	1.70	257.00	3,991.4	11.1	6.6	11.1	0.41	0.22	12.47	
4,086.0	1.10	249.70	4,085.4	10.5	4.4	10.5	0.66	-0.64	-7.77	
4,180.0	1.00	257.30	4,179.4	10.0	2.8	10.0	0.18	-0.11	8.09	
4,272.0	1.30	248.80	4,271.4	9.4	1.0	9.4	0.37	0.33	-9.24	
4,365.0	1.10	233.60	4,364.4	8.5	-0.7	8.5	0.40	-0.22	-16.34	
4,456.0	0.90	202.60	4,455.3	7.4	-1.7	7.4	0.62	-0.22	-34.07	
4,550.0	1.20	186.00	4,549.3	5.7	-2.1	5.7	0.45	0.32	-17.66	
4,644.0	0.80	189.80	4,643.3	4.1	-2.3	4.1	0.43	-0.43	4.04	
4,737.0	0.90	197.90	4,736.3	2.7	-2.6	2.7	0.17	0.11	8.71	
4,831.0	0.90	181.20	4,830.3	1.3	-2.9	1.3	0.28	0.00	-17.77	
4,925.0	0.60	166.10	4,924.3	0.1	-2.8	0.1	0.38	-0.32	-16.06	
5,019.0	0.40	149.80								
5,113.0	0.50	155.60	5,112.3	-1.3	-2.1	-1.3	0.12	0.11	6.17	
5,206.0	0.70	146.60	5,205.3	-2.2	-1.7	-2.2	0.24	0.22	-9.68	
5,301.0	0.60	128.20	5,300.3	-3.0	-1.0	-3.0	0.24	-0.11	-19.37	
5,393.0	0.70	156.20	5,392.3	-3.8	-0.3	-3.8	0.36	0.11	30.43	
5,487.0	0.50	180.00	5,486.3	-4.7	-0.1	-4.7	0.34	-0.21	25.32	
5,579.0	0.50	170.00	5,578.2	-5.5	0.0	-5.5	0.09	0.00	-10.87	
5,672.0	0.30	158.90	5,671.2	-6.1	0.1	-6.1	0.23	-0.22	-11.94	
5,764.0	0.40	187.00	5,763.2	-6.7	0.2	-6.7	0.21	0.11	30.54	
5,858.0	0.30	233.70	5,857.2	-7.2	-0.1	-7.2	0.31	-0.11	49.68	
5,951.0	0.40	176.30	5,950.2	-7.6	-0.3	-7.6	0.37	0.11	-61.72	
6,045.0	0.30	202.90	6,044.2	-8.2	-0.3	-8.2	0.20	-0.11	28.30	
6,139.0	0.30	195.50	6,138.2	-8.6	-0.5	-8.6	0.04	0.00	-7.87	
6,201.0	0.30	124.80	6,200.2	-8.9	-0.4	-8.9	0.56	0.00	-114.03	

Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well Latham 14-2 (Exist.)
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Survey									
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Checked By: _____ Approved By: _____ Date: _____