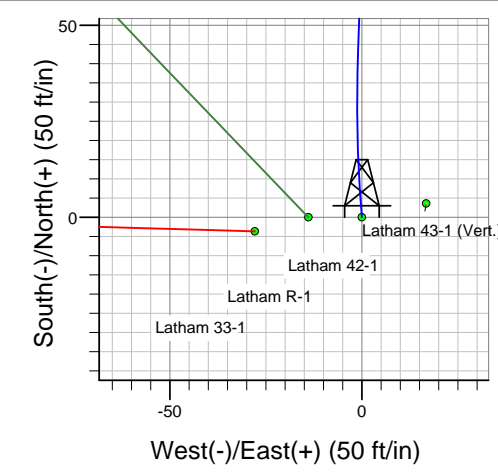
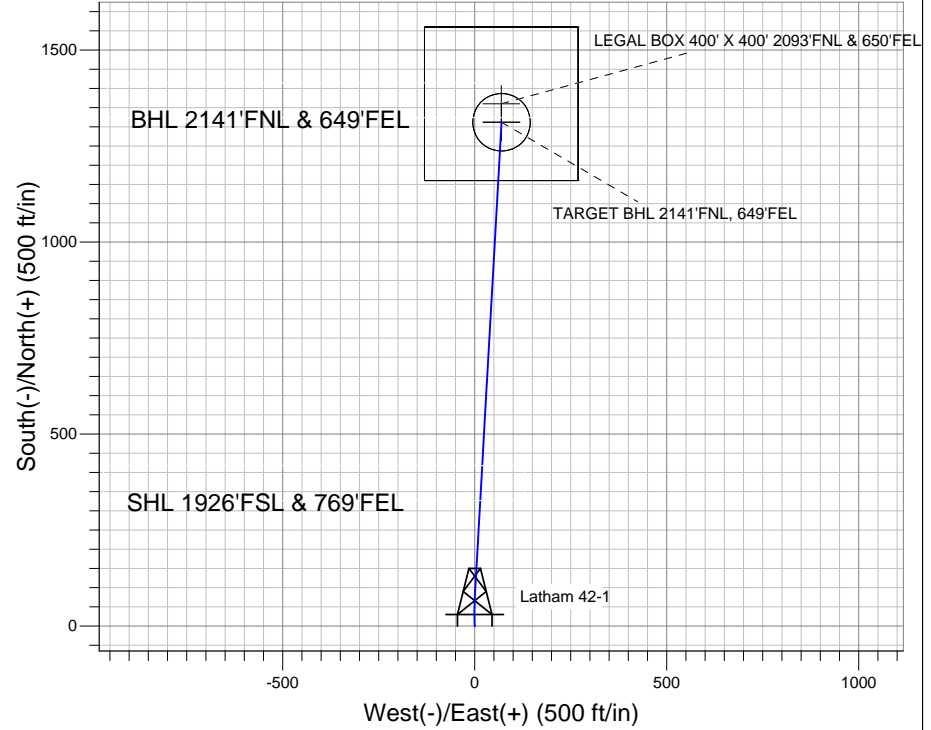
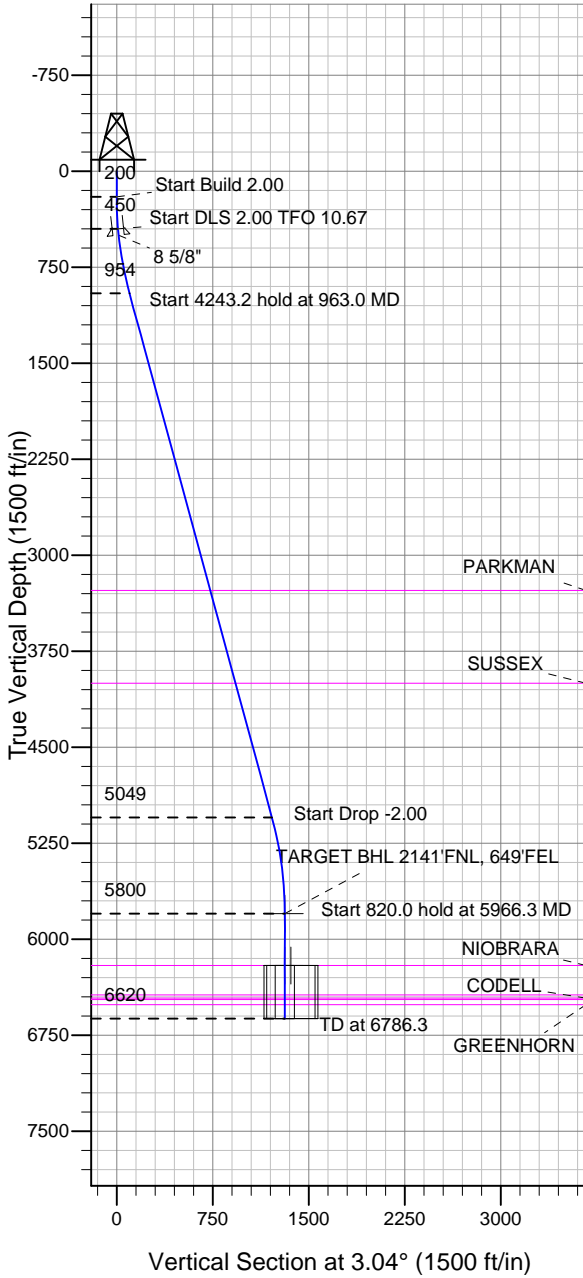


Well Name: Latham 42-1

Surface Location: Latham 43-1 Pad Sec.1-T4N-R63W
 North American Datum 1983 US State Plane 1983 Colorado Northern Zone

Ground Elevation: 4545.0
 +N/-S +E/-W Northing Easting Latitude Longitude Slot
 0.0 0.0 1368525.62 3312251.43 40.339590 -104.379820
 Original Well Elev WELL @ 4560.0ft (Original Well Elev)

BONANZA CREEK ENERGY OPERATING



Latham 43-1 Pad Sec.1-T4N-R63W
 Latham 42-1
 Plan #1 (5-30-12)
 13:25, June 05 2012

Azimuths to True North
 Magnetic North: 8.52°

Magnetic Field
 Strength: 53040.1snT
 Dip Angle: 67.03°
 Date: 6/5/2012
 Model: IGRF2010

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
TARGET BHL 2141'FNL, 649'FEL	5800.0	1311.5	69.7	40.343190	-104.379570	Point
LEGAL BOX 400' X 400' 2093'FNL & 650'FEL	6205.0	1359.5	68.7	40.343322	-104.379574	Rectangle (Sides: L400.0 W400.0)
TARGET CIRCLE 2141'FNL & 649'FEL	6205.0	1311.5	69.7	40.343190	-104.379570	Circle (Radius: 75.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.0	
3	450.0	5.00	356.00	449.7	10.9	-0.8	2.00	356.00	10.8	
4	963.0	15.20	3.22	954.1	100.6	1.5	2.00	10.67	100.5	
5	5206.2	15.20	3.22	5048.8	1211.4	64.1	0.00	0.00	1213.1	
6	5966.3	0.00	0.00	5800.0	1311.5	69.7	2.00	180.00	1313.4	TARGET BHL 2141'FNL, 649'FEL
7	6786.3	0.00	0.00	6620.0	1311.5	69.7	0.00	0.00	1313.4	



Directional

BONANZA CREEK ENERGY OPERATING

SEC.1-T4N-R63W

Latham 43-1 Pad Sec.1-T4N-R63W

Latham 42-1

Wellbore #1

Plan: Plan #1 (5-30-12)

Standard Planning Report

05 June, 2012

Database:	Landmark	Local Co-ordinate Reference:	Well Latham 42-1
Company:	BONANZA CREEK ENERGY OPERATING	TVD Reference:	WELL @ 4560.0ft (Original Well Elev)
Project:	SEC.1-T4N-R63W	MD Reference:	WELL @ 4560.0ft (Original Well Elev)
Site:	Latham 43-1 Pad Sec.1-T4N-R63W	North Reference:	True
Well:	Latham 42-1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (5-30-12)		

Project	SEC.1-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 43-1 Pad Sec.1-T4N-R63W				
Site Position:		Northing:	1,368,529.49 ft	Latitude:	40.339600
From:	Lat/Long	Easting:	3,312,268.11 ft	Longitude:	-104.379760
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.72 °

Well	Latham 42-1					
Well Position	+N/-S	-3.7 ft	Northing:	1,368,525.62 ft	Latitude:	40.339590
	+E/-W	-16.7 ft	Easting:	3,312,251.43 ft	Longitude:	-104.379820
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,545.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	6/5/2012	8.52	67.03	53,040

Design	Plan #1 (5-30-12)			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	3.04

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.00	
450.0	5.00	356.00	449.7	10.9	-0.8	2.00	2.00	0.00	356.00	
963.0	15.20	3.22	954.1	100.6	1.5	2.00	1.99	1.41	10.67	
5,206.2	15.20	3.22	5,048.8	1,211.4	64.1	0.00	0.00	0.00	0.00	
5,966.3	0.00	0.00	5,800.0	1,311.5	69.7	2.00	-2.00	0.00	180.00	TARGET BHL 2141
6,786.3	0.00	0.00	6,620.0	1,311.5	69.7	0.00	0.00	0.00	0.00	

Database:	Landmark	Local Co-ordinate Reference:	Well Latham 42-1
Company:	BONANZA CREEK ENERGY OPERATING	TVD Reference:	WELL @ 4560.0ft (Original Well Elev)
Project:	SEC.1-T4N-R63W	MD Reference:	WELL @ 4560.0ft (Original Well Elev)
Site:	Latham 43-1 Pad Sec.1-T4N-R63W	North Reference:	True
Well:	Latham 42-1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (5-30-12)		

Planned 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
40.0	0.00	0.00	40.0	0.0	0.0	0.0	0.00	0.00	0.00
80.0	0.00	0.00	80.0	0.0	0.0	0.0	0.00	0.00	0.00
120.0	0.00	0.00	120.0	0.0	0.0	0.0	0.00	0.00	0.00
160.0	0.00	0.00	160.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
240.0	0.80	356.00	240.0	0.3	0.0	0.3	2.00	2.00	0.00
280.0	1.60	356.00	280.0	1.1	-0.1	1.1	2.00	2.00	0.00
320.0	2.40	356.00	320.0	2.5	-0.2	2.5	2.00	2.00	0.00
360.0	3.20	356.00	359.9	4.5	-0.3	4.4	2.00	2.00	0.00
400.0	4.00	356.00	399.8	7.0	-0.5	6.9	2.00	2.00	0.00
440.0	4.80	356.00	439.7	10.0	-0.7	10.0	2.00	2.00	0.00
450.0	5.00	356.00	449.7	10.9	-0.8	10.8	2.00	2.00	0.00
480.0	5.59	357.14	479.6	13.6	-0.9	13.6	2.00	1.97	3.80
520.0	6.38	358.33	519.3	17.8	-1.1	17.7	2.00	1.98	2.98
560.0	7.17	359.26	559.1	22.5	-1.2	22.4	2.00	1.98	2.33
600.0	7.97	0.01	598.7	27.8	-1.2	27.7	2.00	1.98	1.86
640.0	8.76	0.62	638.3	33.6	-1.2	33.5	2.00	1.99	1.53
680.0	9.56	1.13	677.8	40.0	-1.1	39.9	2.00	1.99	1.28
720.0	10.35	1.56	717.2	46.9	-0.9	46.8	2.00	1.99	1.08
760.0	11.15	1.93	756.5	54.4	-0.7	54.2	2.00	1.99	0.93
800.0	11.95	2.26	795.7	62.4	-0.4	62.2	2.00	1.99	0.81
840.0	12.75	2.54	834.7	70.9	0.0	70.8	2.00	1.99	0.71
880.0	13.54	2.79	873.7	80.0	0.4	79.9	2.00	1.99	0.62
920.0	14.34	3.01	912.5	89.6	0.9	89.5	2.00	2.00	0.56
960.0	15.14	3.21	951.2	99.8	1.4	99.7	2.00	2.00	0.50
963.0	15.20	3.22	954.1	100.6	1.5	100.5	2.00	2.00	0.47
1,000.0	15.20	3.22	989.8	110.3	2.0	110.2	0.00	0.00	0.00
1,040.0	15.20	3.22	1,028.4	120.7	2.6	120.7	0.00	0.00	0.00
1,080.0	15.20	3.22	1,067.0	131.2	3.2	131.2	0.00	0.00	0.00
1,120.0	15.20	3.22	1,105.6	141.7	3.8	141.7	0.00	0.00	0.00
1,160.0	15.20	3.22	1,144.2	152.1	4.4	152.2	0.00	0.00	0.00
1,200.0	15.20	3.22	1,182.8	162.6	5.0	162.6	0.00	0.00	0.00
1,240.0	15.20	3.22	1,221.4	173.1	5.6	173.1	0.00	0.00	0.00
1,280.0	15.20	3.22	1,260.0	183.6	6.1	183.6	0.00	0.00	0.00
1,320.0	15.20	3.22	1,298.6	194.0	6.7	194.1	0.00	0.00	0.00
1,360.0	15.20	3.22	1,337.2	204.5	7.3	204.6	0.00	0.00	0.00
1,400.0	15.20	3.22	1,375.8	215.0	7.9	215.1	0.00	0.00	0.00
1,440.0	15.20	3.22	1,414.4	225.4	8.5	225.6	0.00	0.00	0.00
1,480.0	15.20	3.22	1,453.0	235.9	9.1	236.1	0.00	0.00	0.00
1,520.0	15.20	3.22	1,491.6	246.4	9.7	246.6	0.00	0.00	0.00
1,560.0	15.20	3.22	1,530.2	256.9	10.3	257.0	0.00	0.00	0.00
1,600.0	15.20	3.22	1,568.8	267.3	10.9	267.5	0.00	0.00	0.00
1,640.0	15.20	3.22	1,607.4	277.8	11.5	278.0	0.00	0.00	0.00
1,680.0	15.20	3.22	1,646.0	288.3	12.0	288.5	0.00	0.00	0.00
1,720.0	15.20	3.22	1,684.6	298.8	12.6	299.0	0.00	0.00	0.00
1,760.0	15.20	3.22	1,723.2	309.2	13.2	309.5	0.00	0.00	0.00
1,800.0	15.20	3.22	1,761.8	319.7	13.8	320.0	0.00	0.00	0.00
1,840.0	15.20	3.22	1,800.4	330.2	14.4	330.5	0.00	0.00	0.00
1,880.0	15.20	3.22	1,839.0	340.6	15.0	341.0	0.00	0.00	0.00
1,920.0	15.20	3.22	1,877.6	351.1	15.6	351.4	0.00	0.00	0.00
1,960.0	15.20	3.22	1,916.2	361.6	16.2	361.9	0.00	0.00	0.00
2,000.0	15.20	3.22	1,954.8	372.1	16.8	372.4	0.00	0.00	0.00
2,040.0	15.20	3.22	1,993.4	382.5	17.4	382.9	0.00	0.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well Latham 42-1
Company:	BONANZA CREEK ENERGY OPERATING	TVD Reference:	WELL @ 4560.0ft (Original Well Elev)
Project:	SEC.1-T4N-R63W	MD Reference:	WELL @ 4560.0ft (Original Well Elev)
Site:	Latham 43-1 Pad Sec.1-T4N-R63W	North Reference:	True
Well:	Latham 42-1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (5-30-12)		

Planned 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)	
2,080.0	15.20	3.22	2,032.0	393.0	17.9	393.4	0.00	0.00	0.00	
2,120.0	15.20	3.22	2,070.6	403.5	18.5	403.9	0.00	0.00	0.00	
2,160.0	15.20	3.22	2,109.2	413.9	19.1	414.4	0.00	0.00	0.00	
2,200.0	15.20	3.22	2,147.8	424.4	19.7	424.9	0.00	0.00	0.00	
2,240.0	15.20	3.22	2,186.4	434.9	20.3	435.4	0.00	0.00	0.00	
2,280.0	15.20	3.22	2,225.0	445.4	20.9	445.8	0.00	0.00	0.00	
2,320.0	15.20	3.22	2,263.6	455.8	21.5	456.3	0.00	0.00	0.00	
2,360.0	15.20	3.22	2,302.2	466.3	22.1	466.8	0.00	0.00	0.00	
2,400.0	15.20	3.22	2,340.8	476.8	22.7	477.3	0.00	0.00	0.00	
2,440.0	15.20	3.22	2,379.4	487.2	23.3	487.8	0.00	0.00	0.00	
2,480.0	15.20	3.22	2,418.0	497.7	23.8	498.3	0.00	0.00	0.00	
2,520.0	15.20	3.22	2,456.6	508.2	24.4	508.8	0.00	0.00	0.00	
2,560.0	15.20	3.22	2,495.2	518.7	25.0	519.3	0.00	0.00	0.00	
2,600.0	15.20	3.22	2,533.8	529.1	25.6	529.7	0.00	0.00	0.00	
2,640.0	15.20	3.22	2,572.4	539.6	26.2	540.2	0.00	0.00	0.00	
2,680.0	15.20	3.22	2,611.0	550.1	26.8	550.7	0.00	0.00	0.00	
2,720.0	15.20	3.22	2,649.6	560.6	27.4	561.2	0.00	0.00	0.00	
2,760.0	15.20	3.22	2,688.2	571.0	28.0	571.7	0.00	0.00	0.00	
2,800.0	15.20	3.22	2,726.8	581.5	28.6	582.2	0.00	0.00	0.00	
2,840.0	15.20	3.22	2,765.4	592.0	29.2	592.7	0.00	0.00	0.00	
2,880.0	15.20	3.22	2,804.0	602.4	29.7	603.2	0.00	0.00	0.00	
2,920.0	15.20	3.22	2,842.6	612.9	30.3	613.7	0.00	0.00	0.00	
2,960.0	15.20	3.22	2,881.2	623.4	30.9	624.1	0.00	0.00	0.00	
3,000.0	15.20	3.22	2,919.8	633.9	31.5	634.6	0.00	0.00	0.00	
3,040.0	15.20	3.22	2,958.4	644.3	32.1	645.1	0.00	0.00	0.00	
3,080.0	15.20	3.22	2,997.0	654.8	32.7	655.6	0.00	0.00	0.00	
3,120.0	15.20	3.22	3,035.6	665.3	33.3	666.1	0.00	0.00	0.00	
3,160.0	15.20	3.22	3,074.2	675.7	33.9	676.6	0.00	0.00	0.00	
3,200.0	15.20	3.22	3,112.8	686.2	34.5	687.1	0.00	0.00	0.00	
3,240.0	15.20	3.22	3,151.4	696.7	35.1	697.6	0.00	0.00	0.00	
3,280.0	15.20	3.22	3,190.0	707.2	35.6	708.1	0.00	0.00	0.00	
3,320.0	15.20	3.22	3,228.6	717.6	36.2	718.5	0.00	0.00	0.00	
3,360.0	15.20	3.22	3,267.2	728.1	36.8	729.0	0.00	0.00	0.00	
3,368.1	15.20	3.22	3,275.0	730.2	36.9	731.1	0.00	0.00	0.00	
PARKMAN										
3,400.0	15.20	3.22	3,305.8	738.6	37.4	739.5	0.00	0.00	0.00	
3,440.0	15.20	3.22	3,344.4	749.0	38.0	750.0	0.00	0.00	0.00	
3,480.0	15.20	3.22	3,383.0	759.5	38.6	760.5	0.00	0.00	0.00	
3,520.0	15.20	3.22	3,421.6	770.0	39.2	771.0	0.00	0.00	0.00	
3,560.0	15.20	3.22	3,460.2	780.5	39.8	781.5	0.00	0.00	0.00	
3,600.0	15.20	3.22	3,498.8	790.9	40.4	792.0	0.00	0.00	0.00	
3,640.0	15.20	3.22	3,537.4	801.4	41.0	802.5	0.00	0.00	0.00	
3,680.0	15.20	3.22	3,576.0	811.9	41.5	812.9	0.00	0.00	0.00	
3,720.0	15.20	3.22	3,614.6	822.4	42.1	823.4	0.00	0.00	0.00	
3,760.0	15.20	3.22	3,653.2	832.8	42.7	833.9	0.00	0.00	0.00	
3,800.0	15.20	3.22	3,691.8	843.3	43.3	844.4	0.00	0.00	0.00	
3,840.0	15.20	3.22	3,730.4	853.8	43.9	854.9	0.00	0.00	0.00	
3,880.0	15.20	3.22	3,769.0	864.2	44.5	865.4	0.00	0.00	0.00	
3,920.0	15.20	3.22	3,807.6	874.7	45.1	875.9	0.00	0.00	0.00	
3,960.0	15.20	3.22	3,846.2	885.2	45.7	886.4	0.00	0.00	0.00	
4,000.0	15.20	3.22	3,884.8	895.7	46.3	896.8	0.00	0.00	0.00	
4,040.0	15.20	3.22	3,923.4	906.1	46.9	907.3	0.00	0.00	0.00	
4,080.0	15.20	3.22	3,962.0	916.6	47.4	917.8	0.00	0.00	0.00	

Database:	Landmark	Local Co-ordinate Reference:	Well Latham 42-1
Company:	BONANZA CREEK ENERGY OPERATING	TVD Reference:	WELL @ 4560.0ft (Original Well Elev)
Project:	SEC.1-T4N-R63W	MD Reference:	WELL @ 4560.0ft (Original Well Elev)
Site:	Latham 43-1 Pad Sec.1-T4N-R63W	North Reference:	True
Well:	Latham 42-1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (5-30-12)		

Planned 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)
4,119.4	15.20	3.22	4,000.0	926.9	48.0	928.1	0.00	0.00	0.00
SUSSEX									
4,120.0	15.20	3.22	4,000.6	927.1	48.0	928.3	0.00	0.00	0.00
4,160.0	15.20	3.22	4,039.2	937.5	48.6	938.8	0.00	0.00	0.00
4,200.0	15.20	3.22	4,077.8	948.0	49.2	949.3	0.00	0.00	0.00
4,240.0	15.20	3.22	4,116.4	958.5	49.8	959.8	0.00	0.00	0.00
4,280.0	15.20	3.22	4,155.0	969.0	50.4	970.3	0.00	0.00	0.00
4,320.0	15.20	3.22	4,193.6	979.4	51.0	980.8	0.00	0.00	0.00
4,360.0	15.20	3.22	4,232.2	989.9	51.6	991.2	0.00	0.00	0.00
4,400.0	15.20	3.22	4,270.8	1,000.4	52.2	1,001.7	0.00	0.00	0.00
4,440.0	15.20	3.22	4,309.4	1,010.8	52.8	1,012.2	0.00	0.00	0.00
4,480.0	15.20	3.22	4,348.0	1,021.3	53.3	1,022.7	0.00	0.00	0.00
4,520.0	15.20	3.22	4,386.6	1,031.8	53.9	1,033.2	0.00	0.00	0.00
4,560.0	15.20	3.22	4,425.2	1,042.3	54.5	1,043.7	0.00	0.00	0.00
4,600.0	15.20	3.22	4,463.8	1,052.7	55.1	1,054.2	0.00	0.00	0.00
4,640.0	15.20	3.22	4,502.4	1,063.2	55.7	1,064.7	0.00	0.00	0.00
4,680.0	15.20	3.22	4,541.0	1,073.7	56.3	1,075.2	0.00	0.00	0.00
4,720.0	15.20	3.22	4,579.6	1,084.2	56.9	1,085.6	0.00	0.00	0.00
4,760.0	15.20	3.22	4,618.2	1,094.6	57.5	1,096.1	0.00	0.00	0.00
4,800.0	15.20	3.22	4,656.8	1,105.1	58.1	1,106.6	0.00	0.00	0.00
4,840.0	15.20	3.22	4,695.4	1,115.6	58.6	1,117.1	0.00	0.00	0.00
4,880.0	15.20	3.22	4,734.0	1,126.0	59.2	1,127.6	0.00	0.00	0.00
4,920.0	15.20	3.22	4,772.6	1,136.5	59.8	1,138.1	0.00	0.00	0.00
4,960.0	15.20	3.22	4,811.2	1,147.0	60.4	1,148.6	0.00	0.00	0.00
5,000.0	15.20	3.22	4,849.8	1,157.5	61.0	1,159.1	0.00	0.00	0.00
5,040.0	15.20	3.22	4,888.4	1,167.9	61.6	1,169.6	0.00	0.00	0.00
5,080.0	15.20	3.22	4,927.0	1,178.4	62.2	1,180.0	0.00	0.00	0.00
5,120.0	15.20	3.22	4,965.6	1,188.9	62.8	1,190.5	0.00	0.00	0.00
5,160.0	15.20	3.22	5,004.2	1,199.3	63.4	1,201.0	0.00	0.00	0.00
5,200.0	15.20	3.22	5,042.8	1,209.8	64.0	1,211.5	0.00	0.00	0.00
5,206.2	15.20	3.22	5,048.8	1,211.4	64.1	1,213.1	0.00	0.00	0.00
5,240.0	14.53	3.22	5,081.5	1,220.1	64.5	1,221.8	2.00	-2.00	0.00
5,280.0	13.73	3.22	5,120.3	1,229.8	65.1	1,231.6	2.00	-2.00	0.00
5,320.0	12.93	3.22	5,159.2	1,239.0	65.6	1,240.8	2.00	-2.00	0.00
5,360.0	12.13	3.22	5,198.2	1,247.7	66.1	1,249.5	2.00	-2.00	0.00
5,400.0	11.33	3.22	5,237.4	1,255.8	66.6	1,257.6	2.00	-2.00	0.00
5,440.0	10.53	3.22	5,276.7	1,263.4	67.0	1,265.2	2.00	-2.00	0.00
5,480.0	9.73	3.22	5,316.1	1,270.4	67.4	1,272.2	2.00	-2.00	0.00
5,520.0	8.93	3.22	5,355.5	1,276.9	67.7	1,278.7	2.00	-2.00	0.00
5,560.0	8.13	3.22	5,395.1	1,282.8	68.1	1,284.6	2.00	-2.00	0.00
5,600.0	7.33	3.22	5,434.7	1,288.2	68.4	1,290.0	2.00	-2.00	0.00
5,640.0	6.53	3.22	5,474.4	1,293.0	68.6	1,294.8	2.00	-2.00	0.00
5,680.0	5.73	3.22	5,514.2	1,297.3	68.9	1,299.1	2.00	-2.00	0.00
5,720.0	4.93	3.22	5,554.0	1,301.0	69.1	1,302.8	2.00	-2.00	0.00
5,760.0	4.13	3.22	5,593.9	1,304.1	69.3	1,305.9	2.00	-2.00	0.00
5,800.0	3.33	3.22	5,633.8	1,306.7	69.4	1,308.5	2.00	-2.00	0.00
5,840.0	2.53	3.22	5,673.8	1,308.7	69.5	1,310.6	2.00	-2.00	0.00
5,880.0	1.73	3.22	5,713.7	1,310.2	69.6	1,312.1	2.00	-2.00	0.00
5,920.0	0.93	3.22	5,753.7	1,311.1	69.7	1,313.0	2.00	-2.00	0.00
5,960.0	0.13	3.22	5,793.7	1,311.5	69.7	1,313.4	2.00	-2.00	0.00
5,966.3	0.00	0.00	5,800.0	1,311.5	69.7	1,313.4	2.00	-2.00	0.00
TARGET BHL 2141'FNL, 649'FEL									
6,000.0	0.00	0.00	5,833.7	1,311.5	69.7	1,313.4	0.00	0.00	0.00
6,040.0	0.00	0.00	5,873.7	1,311.5	69.7	1,313.4	0.00	0.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well Latham 42-1
Company:	BONANZA CREEK ENERGY OPERATING	TVD Reference:	WELL @ 4560.0ft (Original Well Elev)
Project:	SEC.1-T4N-R63W	MD Reference:	WELL @ 4560.0ft (Original Well Elev)
Site:	Latham 43-1 Pad Sec.1-T4N-R63W	North Reference:	True
Well:	Latham 42-1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (5-30-12)		

Planned 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)
6,080.0	0.00	0.00	5,913.7	1,311.5	69.7	1,313.4	0.00	0.00	0.00
6,120.0	0.00	0.00	5,953.7	1,311.5	69.7	1,313.4	0.00	0.00	0.00
6,160.0	0.00	0.00	5,993.7	1,311.5	69.7	1,313.4	0.00	0.00	0.00
6,200.0	0.00	0.00	6,033.7	1,311.5	69.7	1,313.4	0.00	0.00	0.00
6,240.0	0.00	0.00	6,073.7	1,311.5	69.7	1,313.4	0.00	0.00	0.00
6,280.0	0.00	0.00	6,113.7	1,311.5	69.7	1,313.4	0.00	0.00	0.00
6,320.0	0.00	0.00	6,153.7	1,311.5	69.7	1,313.4	0.00	0.00	0.00
6,360.0	0.00	0.00	6,193.7	1,311.5	69.7	1,313.4	0.00	0.00	0.00
6,371.3	0.00	0.00	6,205.0	1,311.5	69.7	1,313.4	0.00	0.00	0.00
NIOBRARA - TARGET CIRCLE 2141'FNL & 649'FEL - LEGAL BOX 400' X 400' 2093'FNL & 650'FEL									
6,400.0	0.00	0.00	6,233.7	1,311.5	69.7	1,313.4	0.00	0.00	0.00
6,440.0	0.00	0.00	6,273.7	1,311.5	69.7	1,313.4	0.00	0.00	0.00
6,480.0	0.00	0.00	6,313.7	1,311.5	69.7	1,313.4	0.00	0.00	0.00
6,520.0	0.00	0.00	6,353.7	1,311.5	69.7	1,313.4	0.00	0.00	0.00
6,560.0	0.00	0.00	6,393.7	1,311.5	69.7	1,313.4	0.00	0.00	0.00
6,600.0	0.00	0.00	6,433.7	1,311.5	69.7	1,313.4	0.00	0.00	0.00
6,601.3	0.00	0.00	6,435.0	1,311.5	69.7	1,313.4	0.00	0.00	0.00
FT. HAYES									
6,626.3	0.00	0.00	6,460.0	1,311.5	69.7	1,313.4	0.00	0.00	0.00
CODELL									
6,637.3	0.00	0.00	6,471.0	1,311.5	69.7	1,313.4	0.00	0.00	0.00
CARLILE									
6,640.0	0.00	0.00	6,473.7	1,311.5	69.7	1,313.4	0.00	0.00	0.00
6,678.3	0.00	0.00	6,512.0	1,311.5	69.7	1,313.4	0.00	0.00	0.00
GREENHORN									
6,680.0	0.00	0.00	6,513.7	1,311.5	69.7	1,313.4	0.00	0.00	0.00
6,720.0	0.00	0.00	6,553.7	1,311.5	69.7	1,313.4	0.00	0.00	0.00
6,760.0	0.00	0.00	6,593.7	1,311.5	69.7	1,313.4	0.00	0.00	0.00
6,786.3	0.00	0.00	6,620.0	1,311.5	69.7	1,313.4	0.00	0.00	0.00

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,368.1	3,275.0	PARKMAN		0.00	
4,119.4	4,000.0	SUSSEX		0.00	
6,371.3	6,205.0	NIOBRARA		0.00	
6,601.3	6,435.0	FT. HAYES		0.00	
6,626.3	6,460.0	CODELL		0.00	
6,637.3	6,471.0	CARLILE		0.00	
6,678.3	6,512.0	GREENHORN		0.00	



Directional

BONANZA CREEK ENERGY OPERATING

SEC.1-T4N-R63W

Latham 43-1 Pad Sec.1-T4N-R63W

Latham 42-1

Wellbore #1

Plan #1 (5-30-12)

Anticollision Report

05 June, 2012

Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well Latham 42-1
Project:	SEC.1-T4N-R63W	TVD Reference:	WELL @ 4560.0ft (Original Well Elev)
Reference Site:	Latham 43-1 Pad Sec.1-T4N-R63W	MD Reference:	WELL @ 4560.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Latham 42-1	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (5-30-12)	Offset TVD Reference:	Offset Datum

Reference	Plan #1 (5-30-12)		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 10,000.0ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program	Date	6/5/2012		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	6,786.2	Plan #1 (5-30-12) (Wellbore #1)	MWD	MWD - Standard

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Latham 43-1 Pad Sec.1-T4N-R63W						
Latham 43-1 (Vert.) - Wellbore #1 - Plan #1 (5-30-12)	318.9	319.9	16.9	15.7	13.978	CC, ES
Latham 43-1 (Vert.) - Wellbore #1 - Plan #1 (5-30-12)	450.0	450.7	18.9	17.1	10.417	SF
Latham R-1 - Wellbore #1 - Plan #1 (5-30-12)	274.5	273.5	13.9	12.9	13.813	CC
Latham R-1 - Wellbore #1 - Plan #1 (5-30-12)	300.0	299.0	13.9	12.8	12.420	ES
Latham R-1 - Wellbore #1 - Plan #1 (5-30-12)	450.0	448.7	17.1	15.3	9.414	SF

Offset Design													Offset Site Error:	0.0ft
Latham 43-1 Pad Sec.1-T4N-R63W - Latham 43-1 (Vert.) - Wellbore #1 - Plan #1 (5-30-12)													Offset Well Error:	0.0ft
Survey Program: 0-MWD														
Reference Measured Depth (ft)	Vertical Depth (ft)	Offset Measured Depth (ft)	Vertical Depth (ft)	Semi Major Axis			Offset Wellbore Centre		Distance			Minimum Separation (ft)	Separation Factor	Warning
				Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.0	0.0	1.0	1.0	0.0	0.0	77.71	3.6	16.7	17.1	17.1	0.00	N/A		
100.0	100.0	101.0	101.0	0.1	0.1	77.71	3.6	16.7	17.1	16.9	0.23	75.407		
200.0	200.0	201.0	201.0	0.3	0.3	77.71	3.6	16.7	17.1	16.4	0.68	25.303		
300.0	300.0	301.0	301.0	0.6	0.6	87.56	3.6	16.7	17.0	15.8	1.13	15.061		
318.9	318.9	319.9	319.9	0.6	0.6	90.00	3.6	16.7	16.9	15.7	1.21	13.978	CC, ES	
400.0	399.8	400.8	400.8	0.8	0.8	104.88	3.6	16.7	17.5	15.9	1.58	11.082		
450.0	449.7	450.7	450.7	0.9	0.9	116.38	3.6	16.7	18.9	17.1	1.82	10.417	SF	
500.0	499.5	500.5	500.5	1.0	1.0	126.17	3.6	16.7	21.4	19.4	2.05	10.431		
600.0	598.7	599.7	599.7	1.3	1.2	143.12	3.6	16.7	30.1	27.6	2.53	11.901		
700.0	697.5	698.5	698.5	1.6	1.5	154.25	3.6	16.7	43.5	40.5	3.00	14.518		
800.0	795.7	796.7	796.7	2.0	1.7	161.10	3.6	16.7	61.2	57.7	3.46	17.665		
900.0	893.1	894.1	894.1	2.4	1.9	165.45	3.6	16.7	82.7	78.8	3.93	21.050		
963.0	954.1	955.1	955.1	2.7	2.0	167.40	3.6	16.7	98.1	93.9	4.22	23.242		
1,000.0	989.8	990.8	990.8	2.9	2.1	168.53	3.6	16.7	107.6	103.2	4.40	24.483		
1,100.0	1,086.3	1,087.3	1,087.3	3.4	2.3	170.77	3.6	16.7	133.4	128.6	4.87	27.401		
1,200.0	1,182.8	1,183.8	1,183.8	3.9	2.5	172.28	3.6	16.7	159.4	154.1	5.35	29.796		
1,300.0	1,279.3	1,280.3	1,280.3	4.4	2.8	173.37	3.6	16.7	185.4	179.6	5.83	31.790		
1,400.0	1,375.8	1,376.8	1,376.8	5.0	3.0	174.19	3.6	16.7	211.5	205.2	6.32	33.470		
1,500.0	1,472.3	1,473.3	1,473.3	5.5	3.2	174.83	3.6	16.7	237.6	230.8	6.81	34.902		
1,600.0	1,568.8	1,569.8	1,569.8	6.0	3.4	175.34	3.6	16.7	263.8	256.5	7.30	36.137		
1,700.0	1,665.3	1,666.3	1,666.3	6.5	3.6	175.76	3.6	16.7	289.9	282.1	7.79	37.211		
1,800.0	1,761.8	1,762.8	1,762.8	7.1	3.8	176.11	3.6	16.7	316.1	307.8	8.28	38.153		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well Latham 42-1
Project:	SEC.1-T4N-R63W	TVD Reference:	WELL @ 4560.0ft (Original Well Elev)
Reference Site:	Latham 43-1 Pad Sec.1-T4N-R63W	MD Reference:	WELL @ 4560.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Latham 42-1	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (5-30-12)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft		
Survey Program: 0-MWD													Latham 43-1 Pad Sec.1-T4N-R63W - Latham 43-1 (Vert.) - Wellbore #1 - Plan #1 (5-30-12)		Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor				
1,900.0	1,858.3	1,859.3	1,859.3	7.6	4.1	176.41	3.6	16.7	342.2	333.5	8.78	38.986				
2,000.0	1,954.8	1,955.8	1,955.8	8.1	4.3	176.66	3.6	16.7	368.4	359.1	9.27	39.727				
2,100.0	2,051.3	2,052.3	2,052.3	8.7	4.5	176.89	3.6	16.7	394.6	384.8	9.77	40.391				
2,200.0	2,147.8	2,148.8	2,148.8	9.2	4.7	177.08	3.6	16.7	420.8	410.5	10.27	40.988				
2,300.0	2,244.3	2,245.3	2,245.3	9.7	4.9	177.25	3.6	16.7	447.0	436.2	10.76	41.528				
2,400.0	2,340.8	2,341.8	2,341.8	10.2	5.2	177.40	3.6	16.7	473.2	461.9	11.26	42.019				
2,500.0	2,437.3	2,438.3	2,438.3	10.8	5.4	177.54	3.6	16.7	499.4	487.6	11.76	42.468				
2,600.0	2,533.8	2,534.8	2,534.8	11.3	5.6	177.66	3.6	16.7	525.6	513.3	12.26	42.878				
2,700.0	2,630.3	2,631.3	2,631.3	11.8	5.8	177.77	3.6	16.7	551.8	539.0	12.76	43.256				
2,800.0	2,726.8	2,727.8	2,727.8	12.4	6.0	177.87	3.6	16.7	578.0	564.7	13.26	43.604				
2,900.0	2,823.3	2,824.3	2,824.3	12.9	6.2	177.97	3.6	16.7	604.2	590.4	13.75	43.926				
3,000.0	2,919.8	2,920.8	2,920.8	13.4	6.5	178.05	3.6	16.7	630.4	616.1	14.25	44.225				
3,100.0	3,016.3	3,017.3	3,017.3	14.0	6.7	178.13	3.6	16.7	656.6	641.8	14.75	44.503				
3,200.0	3,112.8	3,113.8	3,113.8	14.5	6.9	178.20	3.6	16.7	682.8	667.5	15.25	44.762				
3,300.0	3,209.3	3,210.3	3,210.3	15.0	7.1	178.27	3.6	16.7	709.0	693.3	15.75	45.005				
3,400.0	3,305.8	3,306.8	3,306.8	15.6	7.3	178.33	3.6	16.7	735.2	719.0	16.25	45.231				
3,500.0	3,402.3	3,403.3	3,403.3	16.1	7.5	178.39	3.6	16.7	761.4	744.7	16.76	45.444				
3,600.0	3,498.8	3,499.8	3,499.8	16.6	7.8	178.44	3.6	16.7	787.6	770.4	17.26	45.644				
3,700.0	3,595.3	3,596.3	3,596.3	17.2	8.0	178.49	3.6	16.7	813.9	796.1	17.76	45.833				
3,800.0	3,691.8	3,692.8	3,692.8	17.7	8.2	178.54	3.6	16.7	840.1	821.8	18.26	46.010				
3,900.0	3,788.3	3,789.3	3,789.3	18.2	8.4	178.58	3.6	16.7	866.3	847.5	18.76	46.178				
4,000.0	3,884.8	3,885.8	3,885.8	18.8	8.6	178.62	3.6	16.7	892.5	873.2	19.26	46.337				
4,100.0	3,981.3	3,982.3	3,982.3	19.3	8.8	178.66	3.6	16.7	918.7	899.0	19.76	46.487				
4,200.0	4,077.8	4,078.8	4,078.8	19.8	9.1	178.70	3.6	16.7	944.9	924.7	20.26	46.630				
4,300.0	4,174.3	4,175.3	4,175.3	20.4	9.3	178.74	3.6	16.7	971.1	950.4	20.77	46.766				
4,400.0	4,270.8	4,271.8	4,271.8	20.9	9.5	178.77	3.6	16.7	997.4	976.1	21.27	46.894				
4,500.0	4,367.3	4,368.3	4,368.3	21.4	9.7	178.80	3.6	16.7	1,023.6	1,001.8	21.77	47.017				
4,600.0	4,463.8	4,464.8	4,464.8	22.0	9.9	178.83	3.6	16.7	1,049.8	1,027.5	22.27	47.134				
4,700.0	4,560.3	4,561.3	4,561.3	22.5	10.1	178.86	3.6	16.7	1,076.0	1,053.2	22.77	47.245				
4,800.0	4,656.8	4,657.8	4,657.8	23.1	10.4	178.89	3.6	16.7	1,102.2	1,078.9	23.28	47.352				
4,900.0	4,753.3	4,754.3	4,754.3	23.6	10.6	178.91	3.6	16.7	1,128.4	1,104.7	23.78	47.454				
5,000.0	4,849.8	4,850.8	4,850.8	24.1	10.8	178.94	3.6	16.7	1,154.7	1,130.4	24.28	47.551				
5,100.0	4,946.3	4,947.3	4,947.3	24.7	11.0	178.96	3.6	16.7	1,180.9	1,156.1	24.79	47.644				
5,206.2	5,042.8	5,043.8	5,043.8	25.2	11.2	178.98	3.6	16.7	1,207.2	1,181.4	25.29	47.731				
5,300.0	5,139.3	5,140.3	5,140.3	25.6	11.4	179.01	3.6	16.7	1,233.4	1,206.6	25.79	47.818				
5,400.0	5,235.8	5,236.8	5,236.8	26.0	11.7	179.04	3.6	16.7	1,259.6	1,228.8	26.29	47.905				
5,500.0	5,332.3	5,333.3	5,333.3	26.3	11.9	179.06	3.6	16.7	1,285.8	1,253.0	26.79	48.000				
5,600.0	5,428.8	5,429.8	5,429.8	26.6	12.1	179.07	3.6	16.7	1,312.0	1,278.2	27.29	48.095				
5,700.0	5,525.3	5,526.3	5,526.3	26.8	12.3	179.08	3.6	16.7	1,338.2	1,303.4	27.79	48.190				
5,800.0	5,621.8	5,622.8	5,622.8	27.0	12.6	179.09	3.6	16.7	1,364.4	1,328.6	28.29	48.285				
5,900.0	5,718.3	5,719.3	5,719.3	27.1	12.8	179.09	3.6	16.7	1,390.6	1,353.8	28.79	48.380				
5,966.3	5,800.0	5,801.0	5,801.0	27.2	12.9	-177.68	3.6	16.7	1,389.9	1,280.5	28.43	46.047				
6,000.0	5,833.7	5,834.7	5,834.7	27.2	13.0	-177.68	3.6	16.7	1,389.9	1,280.4	28.56	45.839				
6,100.0	5,933.7	5,934.7	5,934.7	27.3	13.2	-177.68	3.6	16.7	1,389.9	1,280.0	28.96	45.203				
6,200.0	6,033.7	6,034.7	6,034.7	27.4	13.5	-177.68	3.6	16.7	1,389.9	1,279.6	29.36	44.582				
6,300.0	6,133.7	6,134.7	6,134.7	27.5	13.7	-177.68	3.6	16.7	1,389.9	1,279.2	29.76	43.977				
6,400.0	6,233.7	6,234.7	6,234.7	27.6	13.9	-177.68	3.6	16.7	1,389.9	1,278.8	30.17	43.386				
6,500.0	6,333.7	6,334.7	6,334.7	27.8	14.1	-177.68	3.6	16.7	1,389.9	1,278.4	30.58	42.809				
6,600.0	6,433.7	6,434.7	6,434.7	27.9	14.4	-177.68	3.6	16.7	1,389.9	1,278.0	30.98	42.246				
6,700.0	6,533.7	6,534.7	6,534.7	28.0	14.6	-177.68	3.6	16.7	1,389.9	1,277.6	31.39	41.696				
6,786.3	6,620.0	6,621.0	6,621.0	28.1	14.8	-177.68	3.6	16.7	1,389.9	1,277.2	31.75	41.232				

Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well Latham 42-1
Project:	SEC.1-T4N-R63W	TVD Reference:	WELL @ 4560.0ft (Original Well Elev)
Reference Site:	Latham 43-1 Pad Sec.1-T4N-R63W	MD Reference:	WELL @ 4560.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Latham 42-1	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (5-30-12)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft		
Survey Program: 0-MWD													Latham 43-1 Pad Sec.1-T4N-R63W - Latham R-1 - Wellbore #1 - Plan #1 (5-30-12)		Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor				
0.0	0.0	0.0	0.0	0.0	0.0	-90.02	0.0	-13.9	14.0	14.0	0.00	N/A				
100.0	100.0	99.0	99.0	0.1	0.1	-90.02	0.0	-13.9	13.9	13.7	0.22	62.325				
200.0	200.0	199.0	199.0	0.3	0.3	-90.02	0.0	-13.9	13.9	13.3	0.67	20.740				
274.5	274.5	273.5	273.5	0.5	0.5	-90.00	0.0	-13.9	13.9	12.9	1.01	13.813 CC				
300.0	300.0	299.0	299.0	0.6	0.6	-93.20	0.0	-13.9	13.9	12.8	1.12	12.420 ES				
400.0	399.8	398.8	398.8	0.8	0.8	-113.33	0.0	-13.9	15.1	13.6	1.58	9.591				
450.0	449.7	448.7	448.7	0.9	0.9	-125.44	0.0	-13.9	17.1	15.3	1.82	9.414 SF				
500.0	499.5	498.5	498.5	1.0	1.0	-138.08	0.0	-13.9	20.3	18.3	2.05	9.890				
600.0	598.7	597.7	597.7	1.3	1.2	-155.20	0.0	-13.9	30.6	28.0	2.52	12.114				
700.0	697.5	696.5	696.5	1.6	1.5	-164.53	0.0	-13.9	45.3	42.3	2.99	15.141				
800.0	795.7	795.8	795.8	2.0	1.7	-168.60	1.2	-15.0	62.9	59.5	3.45	18.242				
900.0	893.1	895.3	895.1	2.4	1.9	-169.21	4.8	-18.5	82.3	78.3	3.92	20.995				
963.0	954.1	958.0	957.6	2.7	2.0	-168.71	8.4	-22.0	95.2	91.0	4.23	22.537				
1,000.0	989.8	994.8	994.3	2.9	2.1	-168.08	10.9	-24.4	102.9	98.5	4.41	23.323				
1,100.0	1,086.3	1,094.8	1,093.5	3.4	2.4	-165.77	19.6	-32.7	122.6	117.6	4.96	24.738				
1,200.0	1,182.8	1,195.0	1,192.5	3.9	2.7	-162.83	30.8	-43.5	140.8	135.3	5.56	25.335				
1,300.0	1,279.3	1,294.6	1,290.3	4.4	3.0	-159.50	44.2	-56.3	158.1	151.8	6.23	25.355				
1,400.0	1,375.8	1,392.7	1,386.6	5.0	3.3	-156.65	58.0	-69.5	175.5	168.5	6.96	25.217				
1,500.0	1,472.3	1,490.8	1,482.9	5.5	3.7	-154.31	71.7	-82.7	193.2	185.5	7.71	25.055				
1,600.0	1,568.8	1,589.0	1,579.2	6.0	4.1	-152.37	85.4	-95.9	211.2	202.7	8.49	24.890				
1,700.0	1,665.3	1,687.1	1,675.4	6.5	4.5	-150.73	99.2	-109.0	229.4	220.1	9.28	24.731				
1,800.0	1,761.8	1,785.2	1,771.7	7.1	4.9	-149.34	112.9	-122.2	247.7	237.7	10.08	24.583				
1,900.0	1,858.3	1,883.4	1,868.0	7.6	5.2	-148.14	126.7	-135.4	266.2	255.3	10.89	24.446				
2,000.0	1,954.8	1,981.5	1,964.2	8.1	5.6	-147.09	140.4	-148.6	284.8	273.1	11.71	24.322				
2,100.0	2,051.3	2,079.6	2,060.5	8.7	6.0	-146.17	154.2	-161.7	303.4	290.9	12.53	24.210				
2,200.0	2,147.8	2,177.8	2,156.8	9.2	6.5	-145.36	167.9	-174.9	322.1	308.8	13.36	24.108				
2,300.0	2,244.3	2,275.9	2,253.1	9.7	6.9	-144.63	181.6	-188.1	340.9	326.7	14.20	24.016				
2,400.0	2,340.8	2,374.0	2,349.3	10.2	7.3	-143.99	195.4	-201.3	359.7	344.7	15.03	23.932				
2,500.0	2,437.3	2,472.2	2,445.6	10.8	7.7	-143.40	209.1	-214.4	378.6	362.7	15.87	23.856				
2,600.0	2,533.8	2,570.3	2,541.9	11.3	8.1	-142.87	222.9	-227.6	397.5	380.8	16.71	23.787				
2,700.0	2,630.3	2,668.5	2,638.1	11.8	8.5	-142.39	236.6	-240.8	416.4	398.9	17.55	23.724				
2,800.0	2,726.8	2,766.6	2,734.4	12.4	8.9	-141.96	250.3	-254.0	435.4	417.0	18.40	23.665				
2,900.0	2,823.3	2,864.7	2,830.7	12.9	9.3	-141.55	264.1	-267.1	454.3	435.1	19.24	23.612				
3,000.0	2,919.8	2,962.9	2,927.0	13.4	9.7	-141.18	277.8	-280.3	473.3	453.2	20.09	23.563				
3,100.0	3,016.3	3,061.0	3,023.2	14.0	10.2	-140.84	291.6	-293.5	492.3	471.4	20.94	23.517				
3,200.0	3,112.8	3,159.1	3,119.5	14.5	10.6	-140.53	305.3	-306.6	511.4	489.6	21.78	23.475				
3,300.0	3,209.3	3,257.3	3,215.8	15.0	11.0	-140.23	319.1	-319.8	530.4	507.8	22.63	23.436				
3,400.0	3,305.8	3,355.4	3,312.0	15.6	11.4	-139.96	332.8	-333.0	549.5	526.0	23.48	23.400				
3,500.0	3,402.3	3,453.3	3,408.3	16.1	11.8	-139.71	346.5	-346.2	568.5	544.2	24.33	23.366				
3,600.0	3,498.8	3,551.7	3,504.6	16.6	12.2	-139.47	360.3	-359.3	587.6	562.4	25.18	23.334				
3,700.0	3,595.3	3,649.8	3,600.9	17.2	12.7	-139.24	374.0	-372.5	606.7	580.6	26.03	23.305				
3,800.0	3,691.8	3,747.9	3,697.1	17.7	13.1	-139.04	387.8	-385.7	625.8	598.9	26.88	23.277				
3,900.0	3,788.3	3,846.1	3,793.4	18.2	13.5	-138.84	401.5	-398.9	644.9	617.1	27.74	23.251				
4,000.0	3,884.8	3,944.2	3,889.7	18.8	13.9	-138.65	415.3	-412.0	664.0	635.4	28.59	23.226				
4,100.0	3,981.3	4,042.4	3,985.9	19.3	14.3	-138.48	429.0	-425.2	683.1	653.6	29.44	23.203				
4,200.0	4,077.8	4,140.5	4,082.2	19.8	14.8	-138.31	442.7	-438.4	702.2	671.9	30.29	23.181				
4,300.0	4,174.3	4,238.6	4,178.5	20.4	15.2	-138.15	456.5	-451.6	721.3	690.2	31.15	23.160				
4,400.0	4,270.8	4,336.8	4,274.8	20.9	15.6	-138.01	470.2	-464.7	740.5	708.5	32.00	23.140				
4,500.0	4,367.3	4,434.9	4,371.0	21.4	16.0	-137.86	484.0	-477.9	759.6	726.7	32.85	23.122				
4,600.0	4,463.8	4,533.0	4,467.3	22.0	16.4	-137.73	497.7	-491.1	778.7	745.0	33.71	23.104				
4,700.0	4,560.3	4,631.2	4,563.6	22.5	16.9	-137.60	511.4	-504.3	797.9	763.3	34.56	23.087				
4,800.0	4,656.8	4,729.3	4,659.8	23.1	17.3	-137.48	525.2	-517.4	817.0	781.6	35.41	23.071				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well Latham 42-1
Project:	SEC.1-T4N-R63W	TVD Reference:	WELL @ 4560.0ft (Original Well Elev)
Reference Site:	Latham 43-1 Pad Sec.1-T4N-R63W	MD Reference:	WELL @ 4560.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Latham 42-1	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (5-30-12)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft		
Survey Program: 0-MWD													Latham 43-1 Pad Sec.1-T4N-R63W - Latham R-1 - Wellbore #1 - Plan #1 (5-30-12)		Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor				
4,900.0	4,753.3	4,827.4	4,756.1	23.6	17.7	-137.36	538.9	-530.6	836.2	799.9	36.27	23.056				
5,000.0	4,849.8	4,925.6	4,852.4	24.1	18.1	-137.25	552.7	-543.8	855.3	818.2	37.12	23.041				
5,100.0	4,946.3	5,023.7	4,948.7	24.7	18.5	-137.14	566.4	-557.0	874.5	836.5	37.98	23.027				
5,206.2	5,048.8	5,127.9	5,050.9	25.2	19.0	-137.04	581.0	-570.9	894.8	855.9	38.88	23.015				
5,300.0	5,139.7	5,219.7	5,141.2	25.6	19.3	-137.22	592.6	-582.1	911.7	872.1	39.58	23.036				
5,400.0	5,237.4	5,317.9	5,238.4	26.0	19.6	-137.44	602.8	-591.8	927.3	887.2	40.16	23.090				
5,500.0	5,335.8	5,416.4	5,336.4	26.3	19.8	-137.70	610.6	-599.3	940.5	899.8	40.66	23.132				
5,600.0	5,434.7	5,515.2	5,434.9	26.6	20.0	-137.97	615.9	-604.4	951.1	910.0	41.06	23.165				
5,700.0	5,534.1	5,614.1	5,533.6	26.8	20.1	-138.28	618.8	-607.2	959.2	917.9	41.37	23.189				
5,800.0	5,633.8	5,713.3	5,632.8	27.0	20.3	-138.61	619.3	-607.7	964.9	923.3	41.59	23.199				
5,900.0	5,733.7	5,813.2	5,732.7	27.1	20.4	-138.81	619.3	-607.7	967.9	926.1	41.80	23.157				
5,966.3	5,800.0	5,879.5	5,799.0	27.2	20.5	-135.62	619.3	-607.7	968.5	926.6	41.93	23.099				
6,000.0	5,833.7	5,913.2	5,832.7	27.2	20.5	-135.62	619.3	-607.7	968.5	926.5	42.01	23.052				
6,100.0	5,933.7	6,013.2	5,932.7	27.3	20.7	-135.62	619.3	-607.7	968.5	926.2	42.28	22.908				
6,200.0	6,033.7	6,113.2	6,032.7	27.4	20.8	-135.62	619.3	-607.7	968.5	925.9	42.54	22.765				
6,300.0	6,133.7	6,213.2	6,132.7	27.5	21.0	-135.62	619.3	-607.7	968.5	925.7	42.81	22.621				
6,400.0	6,233.7	6,313.2	6,232.7	27.6	21.1	-135.62	619.3	-607.7	968.5	925.4	43.09	22.478				
6,500.0	6,333.7	6,413.2	6,332.7	27.8	21.2	-135.62	619.3	-607.7	968.5	925.1	43.36	22.335				
6,600.0	6,433.7	6,513.2	6,432.7	27.9	21.4	-135.62	619.3	-607.7	968.5	924.8	43.64	22.192				
6,700.0	6,533.7	6,613.2	6,532.7	28.0	21.5	-135.62	619.3	-607.7	968.5	924.6	43.92	22.050				
6,757.2	6,590.9	6,670.4	6,589.9	28.0	21.6	-135.62	619.3	-607.7	968.5	924.4	44.08	21.969				
6,786.3	6,620.0	6,698.5	6,618.0	28.1	21.7	-135.62	619.3	-607.7	968.5	924.3	44.17	21.929				

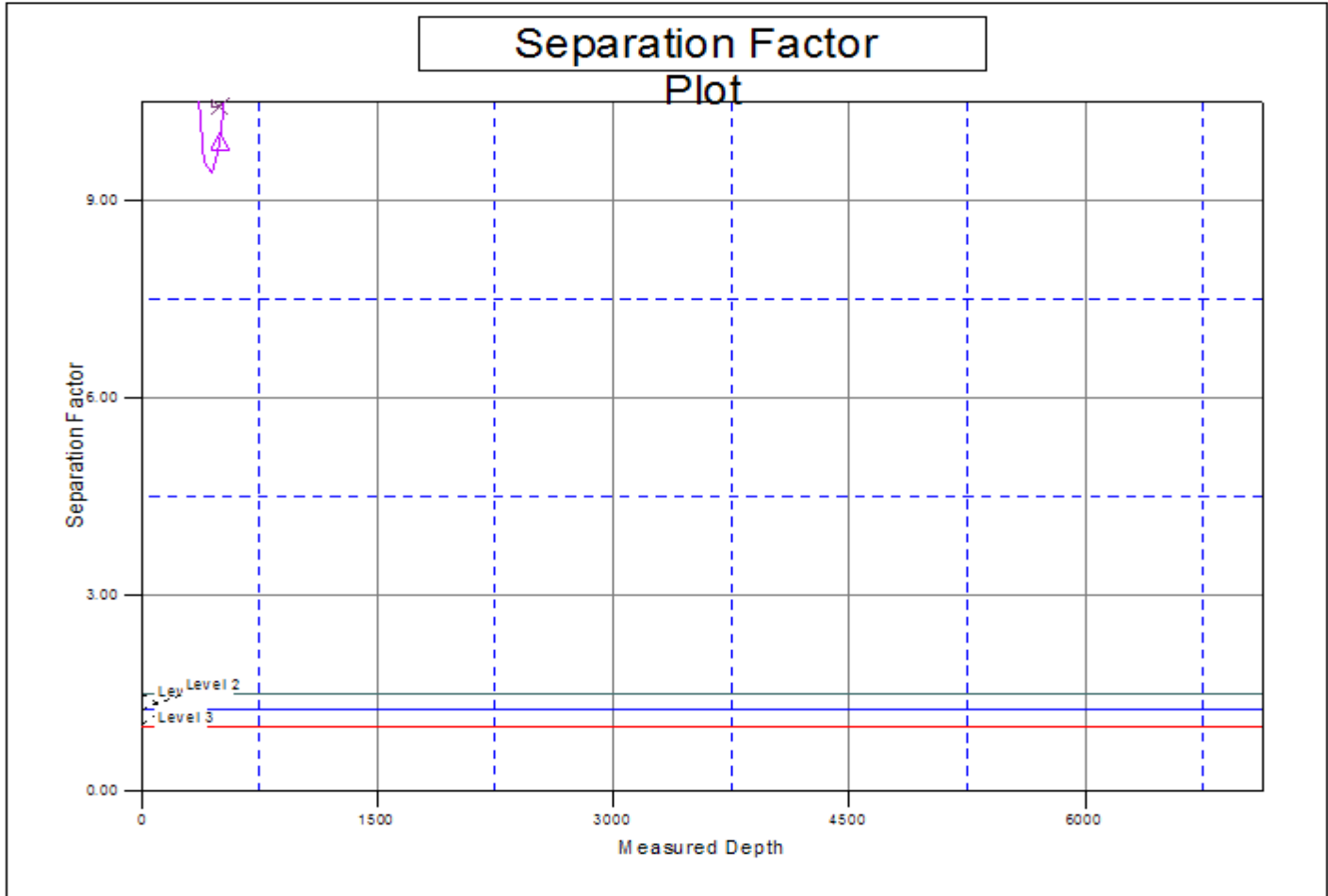
Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well Latham 42-1
Project:	SEC.1-T4N-R63W	TVD Reference:	WELL @ 4560.0ft (Original Well Elev)
Reference Site:	Latham 43-1 Pad Sec.1-T4N-R63W	MD Reference:	WELL @ 4560.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Latham 42-1	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (5-30-12)	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 4560.0ft (Original Well Elev) Coordinates are relative to: Latham 42-1
 Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, Colorado Northern Zone
 Central Meridian is -105.500000 ° Grid Convergence at Surface is: 0.72°



Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well Latham 42-1
Project:	SEC.1-T4N-R63W	TVD Reference:	WELL @ 4560.0ft (Original Well Elev)
Reference Site:	Latham 43-1 Pad Sec.1-T4N-R63W	MD Reference:	WELL @ 4560.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Latham 42-1	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #1 (5-30-12)	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 4560.0ft (Original Well Elev) Coordinates are relative to: Latham 42-1
 Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, Colorado Northern Zone
 Central Meridian is -105.500000 ° Grid Convergence at Surface is: 0.72°



LEGEND

R-1, Wellbore #1, Plan #1 (5-30-12) V0 ✕ Latham 43-1 (Vert), Wellbore #1, Plan #1 (5-30-12) V0