

BONANZA CREEK ENERGY OPERATING

Well Name: **Park 44-41-4HNB**

Surface Location: Park T-4 Pad Sec.4-T4N-R63W
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone

Ground Elevation: 4626.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1366432.53	3296110.14	40.334390	-104.437810	

RKB - 13' WELL @ 4639.0ft (RKB - 13')

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
BHL 470'FNL & 680'FEL	6392.0	4747.0	590.9	Point
T1 470'FNL & 750'FEL	6392.0	273.2	359.6	Point



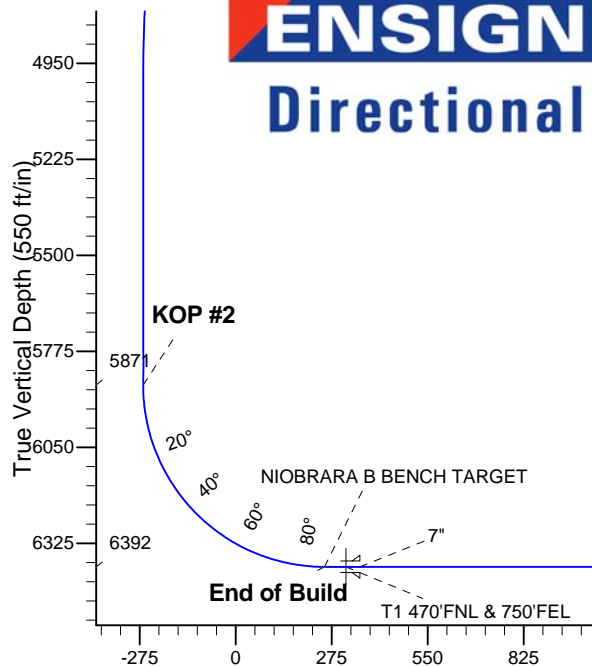
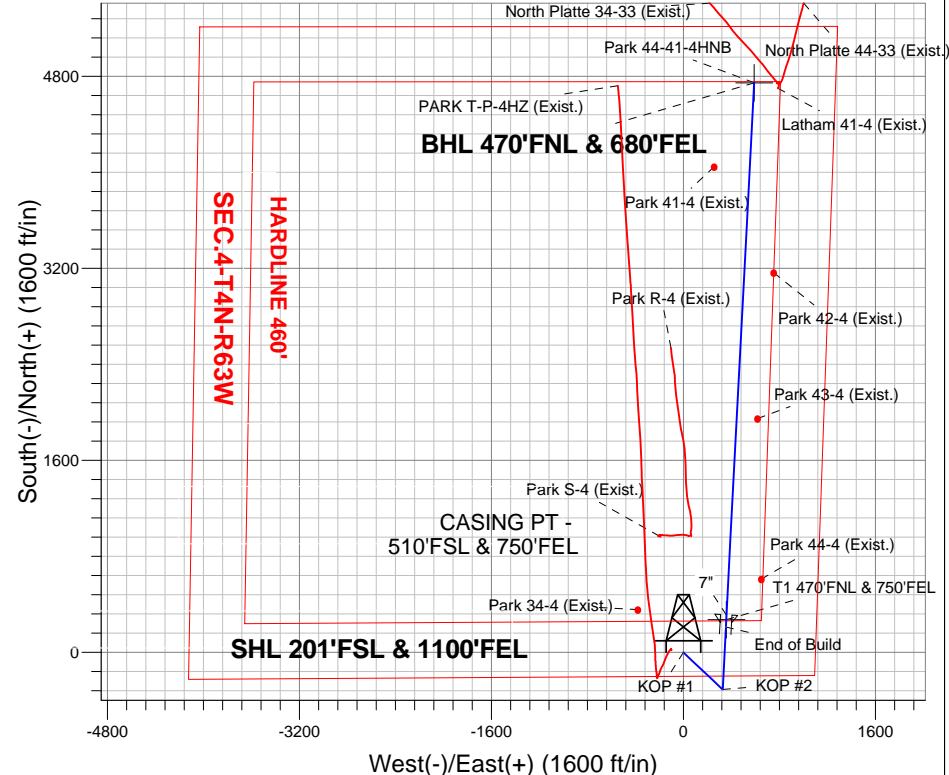
Azimuths to True North
Magnetic North: 8.48°

Magnetic Field
Strength: 52978.3srT
Dip Angle: 67.00°
Date: 12/3/2012
Model: IGRF2010

Park T-4 Pad Sec.4-T4N-R63W
Park 44-41-4HNB
Plan #1 (12-3-12)
10:32, December 04 2012

ANNOTATIONS

TVD	MD	Annotation
1500.0	1500.0	KOP #1
5871.1	5902.3	KOP #2
6392.0	6720.5	End of Build



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	1500.0	0.00	0.00	1500.0	0.0	0.0	0.00	0.00	0.0	
3	1915.0	8.30	133.20	1913.5	-20.5	21.9	2.00	133.20	-17.7	
4	4616.2	8.30	133.20	4586.5	-287.5	306.1	0.00	0.00	-247.4	
5	5031.2	0.00	0.00	5000.0	-308.0	328.0	2.00	180.00	-265.1	
6	5902.3	0.00	0.00	5871.1	-308.0	328.0	0.00	0.00	-265.1	
7	6720.5	90.00	2.92	6392.0	212.2	354.5	11.00	2.92	254.4	
8	6821.6	90.00	2.92	6392.0	313.2	359.6	0.00	0.00	355.2	
9	6828.7	90.00	2.99	6392.0	320.3	360.0	1.00	90.00	362.3	
10	11261.4	90.00	2.99	6392.0	4747.0	590.9	0.00	0.00	4783.6	BHL 470'FNL & 680'FEL

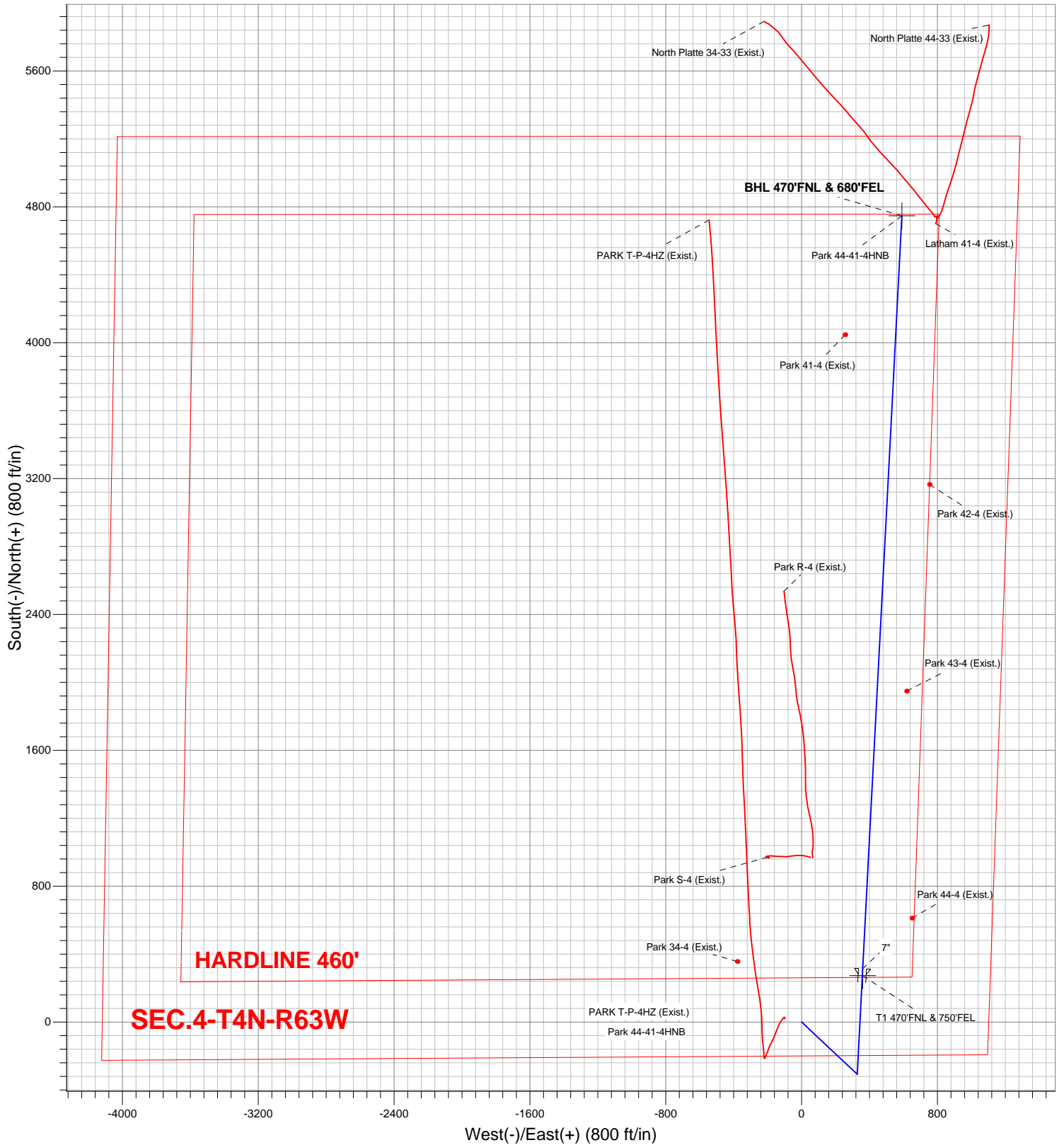
BHL 470'FNL & 680'FEL

Vertical Section at 7.10° (550 ft/in)



Surface Location: Park T-4 Pad Sec.4-T4N-R63W

North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone
Ground Elevation: 4626.0
+N/-S +E/-W Northing Easting Latitude Longitude Slot
0.0 0.0 1366432.53 3296110.14 40.334390 -104.437810
Design Version: Plan #1 (12-3-12)





BONANZA CREEK ENERGY OPERATING

SEC.4-T4N-R63W

Park T-4 Pad Sec.4-T4N-R63W

Park 44-41-4HNB

Wellbore #1

Plan: Plan #1 (12-3-12)

Standard Planning Report

04 December, 2012

Database:	Landmark	Local Co-ordinate Reference:	Well Park 44-41-4HNB
Company:	BONANZA CREEK ENERGY OPERATING	TVD Reference:	WELL @ 4639.0ft (RKB - 13')
Project:	SEC.4-T4N-R63W	MD Reference:	WELL @ 4639.0ft (RKB - 13')
Site:	Park T-4 Pad Sec.4-T4N-R63W	North Reference:	True
Well:	Park 44-41-4HNB	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (12-3-12)		

Project	SEC.4-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						Park T-4 Pad Sec.4-T4N-R63W							
Site Position: From: Position Uncertainty:			Lat/Long 0.0 ft			Northing:		1,366,432.54 ft		Latitude:		40.334390	
						Easting:		3,296,110.14 ft		Longitude:		-104.437810	
						Slot Radius:		"		Grid Convergence:		0.69 °	

Well	Park 44-41-4HNB					
Well Position	+N-S	0.0 ft	Northing:	1,366,432.53 ft	Latitude:	40.334390
	+E-W	0.0 ft	Easting:	3,296,110.14 ft	Longitude:	-104.437810
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,626.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/3/2012	8.48	67.00	52,978

Design	Plan #1 (12-3-12)			
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	7.10

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	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,915.0	8.30	133.20	1,913.5	-20.5	21.9	2.00	2.00	0.00	133.20	
4,616.2	8.30	133.20	4,586.5	-287.5	306.1	0.00	0.00	0.00	0.00	
5,031.2	0.00	0.00	5,000.0	-308.0	328.0	2.00	-2.00	0.00	180.00	
5,902.3	0.00	0.00	5,871.1	-308.0	328.0	0.00	0.00	0.00	0.00	
6,720.5	90.00	2.92	6,392.0	212.2	354.5	11.00	11.00	0.00	2.92	
6,821.6	90.00	2.92	6,392.0	313.2	359.6	0.00	0.00	0.00	0.00	
6,828.7	90.00	2.99	6,392.0	320.3	360.0	1.00	0.00	1.00	90.00	
11,261.4	90.00	2.99	6,392.0	4,747.0	590.9	0.00	0.00	0.00	0.00	BHL 470'FNL & 68C

Database:	Landmark	Local Co-ordinate Reference:	Well Park 44-41-4HNB
Company:	BONANZA CREEK ENERGY OPERATING	TVD Reference:	WELL @ 4639.0ft (RKB - 13')
Project:	SEC.4-T4N-R63W	MD Reference:	WELL @ 4639.0ft (RKB - 13')
Site:	Park T-4 Pad Sec.4-T4N-R63W	North Reference:	True
Well:	Park 44-41-4HNB	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (12-3-12)		

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
100.0	0.00	0.00	100.0	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
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP #1									
1,600.0	2.00	133.20	1,600.0	-1.2	1.3	-1.0	2.00	2.00	0.00
1,700.0	4.00	133.20	1,699.8	-4.8	5.1	-4.1	2.00	2.00	0.00
1,800.0	6.00	133.20	1,799.5	-10.7	11.4	-9.2	2.00	2.00	0.00
1,900.0	8.00	133.20	1,898.7	-19.1	20.3	-16.4	2.00	2.00	0.00
1,915.0	8.30	133.20	1,913.5	-20.5	21.9	-17.7	2.00	2.00	0.00
2,000.0	8.30	133.20	1,997.7	-28.9	30.8	-24.9	0.00	0.00	0.00
2,100.0	8.30	133.20	2,096.6	-38.8	41.3	-33.4	0.00	0.00	0.00
2,200.0	8.30	133.20	2,195.6	-48.7	51.9	-41.9	0.00	0.00	0.00
2,300.0	8.30	133.20	2,294.5	-58.6	62.4	-50.4	0.00	0.00	0.00
2,400.0	8.30	133.20	2,393.5	-68.5	72.9	-58.9	0.00	0.00	0.00
2,500.0	8.30	133.20	2,492.4	-78.3	83.4	-67.4	0.00	0.00	0.00
2,600.0	8.30	133.20	2,591.4	-88.2	94.0	-75.9	0.00	0.00	0.00
2,700.0	8.30	133.20	2,690.3	-98.1	104.5	-84.5	0.00	0.00	0.00
2,800.0	8.30	133.20	2,789.3	-108.0	115.0	-93.0	0.00	0.00	0.00
2,900.0	8.30	133.20	2,888.2	-117.9	125.5	-101.5	0.00	0.00	0.00
3,000.0	8.30	133.20	2,987.2	-127.8	136.1	-110.0	0.00	0.00	0.00
3,100.0	8.30	133.20	3,086.1	-137.6	146.6	-118.5	0.00	0.00	0.00
3,200.0	8.30	133.20	3,185.1	-147.5	157.1	-127.0	0.00	0.00	0.00
3,300.0	8.30	133.20	3,284.0	-157.4	167.6	-135.5	0.00	0.00	0.00
3,400.0	8.30	133.20	3,383.0	-167.3	178.1	-144.0	0.00	0.00	0.00
3,500.0	8.30	133.20	3,481.9	-177.2	188.7	-152.5	0.00	0.00	0.00
3,600.0	8.30	133.20	3,580.9	-187.0	199.2	-161.0	0.00	0.00	0.00
3,700.0	8.30	133.20	3,679.9	-196.9	209.7	-169.5	0.00	0.00	0.00
3,800.0	8.30	133.20	3,778.8	-206.8	220.2	-178.0	0.00	0.00	0.00
3,900.0	8.30	133.20	3,877.8	-216.7	230.8	-186.5	0.00	0.00	0.00
4,000.0	8.30	133.20	3,976.7	-226.6	241.3	-195.0	0.00	0.00	0.00
4,100.0	8.30	133.20	4,075.7	-236.5	251.8	-203.5	0.00	0.00	0.00
4,200.0	8.30	133.20	4,174.6	-246.3	262.3	-212.0	0.00	0.00	0.00
4,300.0	8.30	133.20	4,273.6	-256.2	272.9	-220.5	0.00	0.00	0.00
4,400.0	8.30	133.20	4,372.5	-266.1	283.4	-229.1	0.00	0.00	0.00
4,500.0	8.30	133.20	4,471.5	-276.0	293.9	-237.6	0.00	0.00	0.00
4,600.0	8.30	133.20	4,570.4	-285.9	304.4	-246.1	0.00	0.00	0.00
4,616.2	8.30	133.20	4,586.5	-287.5	306.1	-247.4	0.00	0.00	0.00
4,700.0	6.62	133.20	4,669.5	-294.9	314.1	-253.9	2.00	-2.00	0.00
4,800.0	4.62	133.20	4,769.1	-301.6	321.2	-259.6	2.00	-2.00	0.00
4,900.0	2.62	133.20	4,868.9	-305.9	325.8	-263.4	2.00	-2.00	0.00
5,000.0	0.62	133.20	4,968.8	-307.9	327.9	-265.0	2.00	-2.00	0.00

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Project:	SEC.4-T4N-R63W	MD Reference:	WELL @ 4639.0ft (RKB - 13')
Site:	Park T-4 Pad Sec.4-T4N-R63W	North Reference:	True
Well:	Park 44-41-4HNB	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (12-3-12)		

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)
5,031.2	0.00	0.00	5,000.0	-308.0	328.0	-265.1	2.00	-2.00	0.00
5,100.0	0.00	0.00	5,068.8	-308.0	328.0	-265.1	0.00	0.00	0.00
5,200.0	0.00	0.00	5,168.8	-308.0	328.0	-265.1	0.00	0.00	0.00
5,300.0	0.00	0.00	5,268.8	-308.0	328.0	-265.1	0.00	0.00	0.00
5,400.0	0.00	0.00	5,368.8	-308.0	328.0	-265.1	0.00	0.00	0.00
5,500.0	0.00	0.00	5,468.8	-308.0	328.0	-265.1	0.00	0.00	0.00
5,600.0	0.00	0.00	5,568.8	-308.0	328.0	-265.1	0.00	0.00	0.00
5,700.0	0.00	0.00	5,668.8	-308.0	328.0	-265.1	0.00	0.00	0.00
5,800.0	0.00	0.00	5,768.8	-308.0	328.0	-265.1	0.00	0.00	0.00
5,900.0	0.00	0.00	5,868.8	-308.0	328.0	-265.1	0.00	0.00	0.00
5,902.3	0.00	0.00	5,871.1	-308.0	328.0	-265.1	0.00	0.00	0.00
KOP #2									
6,000.0	10.74	2.92	5,968.2	-298.9	328.5	-256.0	11.00	11.00	0.00
6,100.0	21.74	2.92	6,064.1	-271.0	329.9	-228.2	11.00	11.00	0.00
6,200.0	32.74	2.92	6,152.9	-225.3	332.2	-182.6	11.00	11.00	0.00
6,300.0	43.74	2.92	6,231.3	-163.6	335.4	-120.9	11.00	11.00	0.00
6,400.0	54.74	2.92	6,296.5	-88.1	339.2	-45.5	11.00	11.00	0.00
6,500.0	65.74	2.92	6,346.0	-1.5	343.6	41.0	11.00	11.00	0.00
6,600.0	76.74	2.92	6,378.1	92.9	348.4	135.2	11.00	11.00	0.00
6,700.0	87.74	2.92	6,391.6	191.7	353.5	233.9	11.00	11.00	0.00
6,720.5	90.00	2.92	6,392.0	212.2	354.5	254.4	11.00	11.00	0.00
End of Build - NIOBRARA B BENCH TARGET									
6,781.7	90.00	2.92	6,392.0	273.3	357.6	315.4	0.00	0.00	0.00
T1 470°FNL & 750°FEL									
6,800.0	90.00	2.92	6,392.0	291.6	358.5	333.6	0.00	0.00	0.00
6,821.6	90.00	2.92	6,392.0	313.2	359.6	355.2	0.00	0.00	0.00
7"									
6,828.7	90.00	2.99	6,392.0	320.3	360.0	362.3	0.99	0.00	0.99
6,900.0	90.00	2.99	6,392.0	391.5	363.7	433.4	0.00	0.00	0.00
7,000.0	90.00	2.99	6,392.0	491.3	368.9	533.1	0.00	0.00	0.00
7,100.0	90.00	2.99	6,392.0	591.2	374.1	632.9	0.00	0.00	0.00
7,200.0	90.00	2.99	6,392.0	691.0	379.3	732.6	0.00	0.00	0.00
7,300.0	90.00	2.99	6,392.0	790.9	384.6	832.4	0.00	0.00	0.00
7,400.0	90.00	2.99	6,392.0	890.8	389.8	932.1	0.00	0.00	0.00
7,500.0	90.00	2.99	6,392.0	990.6	395.0	1,031.8	0.00	0.00	0.00
7,600.0	90.00	2.99	6,392.0	1,090.5	400.2	1,131.6	0.00	0.00	0.00
7,700.0	90.00	2.99	6,392.0	1,190.4	405.4	1,231.3	0.00	0.00	0.00
7,800.0	90.00	2.99	6,392.0	1,290.2	410.6	1,331.1	0.00	0.00	0.00
7,900.0	90.00	2.99	6,392.0	1,390.1	415.8	1,430.8	0.00	0.00	0.00
8,000.0	90.00	2.99	6,392.0	1,490.0	421.0	1,530.6	0.00	0.00	0.00
8,100.0	90.00	2.99	6,392.0	1,589.8	426.2	1,630.3	0.00	0.00	0.00
8,200.0	90.00	2.99	6,392.0	1,689.7	431.4	1,730.0	0.00	0.00	0.00
8,300.0	90.00	2.99	6,392.0	1,789.6	436.6	1,829.8	0.00	0.00	0.00
8,400.0	90.00	2.99	6,392.0	1,889.4	441.9	1,929.5	0.00	0.00	0.00
8,500.0	90.00	2.99	6,392.0	1,989.3	447.1	2,029.3	0.00	0.00	0.00
8,600.0	90.00	2.99	6,392.0	2,089.1	452.3	2,129.0	0.00	0.00	0.00
8,700.0	90.00	2.99	6,392.0	2,189.0	457.5	2,228.8	0.00	0.00	0.00
8,800.0	90.00	2.99	6,392.0	2,288.9	462.7	2,328.5	0.00	0.00	0.00
8,900.0	90.00	2.99	6,392.0	2,388.7	467.9	2,428.2	0.00	0.00	0.00
9,000.0	90.00	2.99	6,392.0	2,488.6	473.1	2,528.0	0.00	0.00	0.00
9,100.0	90.00	2.99	6,392.0	2,588.5	478.3	2,627.7	0.00	0.00	0.00
9,200.0	90.00	2.99	6,392.0	2,688.3	483.5	2,727.5	0.00	0.00	0.00
9,300.0	90.00	2.99	6,392.0	2,788.2	488.7	2,827.2	0.00	0.00	0.00

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
6,720.5	6,392.0	NIORARA B BENCH TARGET		0.00		

Database:	Landmark	Local Co-ordinate Reference:	Well Park 44-41-4HNB
Company:	BONANZA CREEK ENERGY OPERATING	TVD Reference:	WELL @ 4639.0ft (RKB - 13')
Project:	SEC.4-T4N-R63W	MD Reference:	WELL @ 4639.0ft (RKB - 13')
Site:	Park T-4 Pad Sec.4-T4N-R63W	North Reference:	True
Well:	Park 44-41-4HNB	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (12-3-12)		

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
1,500.0	1,500.0	0.0	0.0	KOP #1
5,902.3	5,871.1	-308.0	328.0	KOP #2
6,720.5	6,392.0	212.2	354.5	End of Build



BONANZA CREEK ENERGY OPERATING

SEC.4-T4N-R63W

Park T-4 Pad Sec.4-T4N-R63W

Park 44-41-4HNB

Wellbore #1

Plan #1 (12-3-12)

Anticollision Report

04 December, 2012

Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well Park 44-41-4HNB
Project:	SEC.4-T4N-R63W	TVD Reference:	WELL @ 4639.0ft (RKB - 13')
Reference Site:	Park T-4 Pad Sec.4-T4N-R63W	MD Reference:	WELL @ 4639.0ft (RKB - 13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Park 44-41-4HNB	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 (12-3-12)	Offset TVD Reference:	Offset Datum

Reference	Plan #1 (12-3-12)		
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 1,000.0ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program	Date 12/4/2012			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	11,261.0	Plan #1 (12-3-12) (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 41-4 Pad Sec.4-T4N-R63W						
Latham 41-4 (Exist.) - Wellbore #1 - Wellbore #1	11,228.1	6,302.4	199.9	94.5	1.898	CC, ES, SF
North Platte 34-33 (Exist.) - Wellbore #1 - Wellbore #1						Out of range
North Platte 44-33 (Exist.) - Wellbore #1 - Wellbore #1						Out of range
Park T-4 Pad Sec.4-T4N-R63W						
Park 34-4 (Exist.) - Wellbore #1 - Wellbore #1	1,500.0	1,498.0	520.8	487.6	15.677	CC
Park 34-4 (Exist.) - Wellbore #1 - Wellbore #1	1,600.0	1,598.0	522.5	487.1	14.762	ES
Park 34-4 (Exist.) - Wellbore #1 - Wellbore #1	6,828.7	6,390.0	740.1	596.3	5.146	SF
Park 41-4 (Exist.) - Wellbore #1 - Wellbore #1	10,545.5	6,328.0	297.6	91.4	1.444	Level 3, CC, ES, SF
Park 42-4 (Exist.) - Wellbore #1 - Wellbore #1	9,690.9	6,416.0	243.9	51.9	1.271	Level 3, CC, ES
Park 42-4 (Exist.) - Wellbore #1 - Wellbore #1	9,700.0	6,416.0	244.0	51.9	1.270	Level 3, SF
Park 43-4 (Exist.) - Wellbore #1 - Wellbore #1	8,468.8	6,329.0	173.7	5.9	1.035	Level 2, CC, ES, SF
Park 44-4 (Exist.) - Wellbore #1 - Wellbore #1	7,135.2	6,355.0	274.0	127.5	1.871	CC, ES, SF
PARK T-P-4HZ PAD SEC.4- T4N-R63W						
Park R-4 (Exist.) - Wellbore #1 - Wellbore #1	9,013.9	6,637.9	577.8	496.4	7.101	CC, ES
Park R-4 (Exist.) - Wellbore #1 - Wellbore #1	9,100.0	6,640.2	584.2	501.2	7.042	SF
Park S-4 (Exist.) - Wellbore #1 - Wellbore #1	7,449.0	6,378.4	593.4	556.9	16.259	CC, ES
Park S-4 (Exist.) - Wellbore #1 - Wellbore #1	7,600.0	6,377.7	612.3	573.5	15.751	SF
PARK T-P-4HZ (Exist.) - Wellbore #1 - Wellbore #1	0.0	1.0	100.0	100.0	10,000.000	CC
PARK T-P-4HZ (Exist.) - Wellbore #1 - Wellbore #1	1,526.7	1,528.5	104.9	99.1	18.314	ES
PARK T-P-4HZ (Exist.) - Wellbore #1 - Wellbore #1	10,000.0	9,815.0	992.3	859.7	7.485	SF

Offset Design				Latham 41-4 Pad Sec.4-T4N-R63W - Latham 41-4 (Exist.) - Wellbore #1 - Wellbore #1									Offset Site Error:		0.0 ft
Survey Program: 200-MWD													Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre +N/-S	Offset Wellbore Centre +E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor			
Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)			
10,300.0	6,392.0	6,304.4	6,303.5	75.1	13.0	90.52	4,703.3	788.8	949.4	861.4	87.99	10.790			
10,400.0	6,392.0	6,304.1	6,303.3	77.0	13.0	90.46	4,703.3	788.8	851.9	762.1	89.87	9.480			
10,500.0	6,392.0	6,303.9	6,303.1	78.9	13.0	90.39	4,703.3	788.8	755.1	663.3	91.74	8.230			
10,600.0	6,392.0	6,303.7	6,302.9	80.7	13.0	90.33	4,703.3	788.8	659.2	565.6	93.62	7.041			
10,700.0	6,392.0	6,303.5	6,302.6	82.6	13.0	90.27	4,703.3	788.8	564.7	469.2	95.50	5.913			
10,800.0	6,392.0	6,303.3	6,302.4	84.5	13.0	90.20	4,703.3	788.8	472.5	375.1	97.38	4.852			

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 Park 44-41-4HNB
Project:	SEC.4-T4N-R63W	TVD Reference:	WELL @ 4639.0ft (RKB - 13')
Reference Site:	Park T-4 Pad Sec.4-T4N-R63W	MD Reference:	WELL @ 4639.0ft (RKB - 13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Park 44-41-4HNB	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 (12-3-12)	Offset TVD Reference:	Offset Datum

Offset Design Latham 41-4 Pad Sec.4-T4N-R63W - Latham 41-4 (Exist.) - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 ft
Survey Program: 200-MWD												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	
10,900.0	6,392.0	6,303.1	6,302.2	86.4	13.0	90.14	4,703.3	788.8	384.2	285.0	99.26	3.871	
11,000.0	6,392.0	6,302.8	6,302.0	88.3	13.0	90.08	4,703.3	788.8	303.3	202.2	101.14	2.999	
11,100.0	6,392.0	6,302.6	6,301.8	90.1	13.0	90.02	4,703.3	788.8	237.4	134.4	103.03	2.305	
11,200.0	6,392.0	6,302.4	6,301.6	92.0	13.0	89.96	4,703.3	788.8	201.9	97.0	104.91	1.924	
11,228.1	6,392.0	6,302.4	6,301.5	92.4	13.0	89.94	4,703.3	788.8	199.9	94.5	105.34	1.898	CC, ES, SF
11,261.4	6,392.0	6,302.3	6,301.4	93.0	13.0	89.92	4,703.3	788.8	202.6	96.8	105.85	1.914	
11,261.9	6,392.0	6,302.3	6,301.4	93.0	13.0	89.92	4,703.3	788.8	202.7	96.9	105.85	1.915	

Park T-4 Pad Sec.4-T4N-R63W - Park 34-4 (Exist.) - Wellbore #1 - Wellbore #1													Offset Site Error:	0.0 ft
Survey Program: 6700-UNKNOWN													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	-46.72	357.0	-379.2	520.8					
100.0	100.0	98.0	98.0	0.1	2.0	-46.72	357.0	-379.2	520.8	518.7	2.07	251.276		
200.0	200.0	198.0	198.0	0.3	4.0	-46.72	357.0	-379.2	520.8	516.5	4.30	121.189		
300.0	300.0	298.0	298.0	0.6	6.0	-46.72	357.0	-379.2	520.8	514.3	6.52	79.850		
400.0	400.0	398.0	398.0	0.8	8.0	-46.72	357.0	-379.2	520.8	512.0	8.75	59.540		
500.0	500.0	498.0	498.0	1.0	10.0	-46.72	357.0	-379.2	520.8	509.8	10.97	47.467		
600.0	600.0	598.0	598.0	1.2	12.0	-46.72	357.0	-379.2	520.8	507.6	13.20	39.465		
700.0	700.0	698.0	698.0	1.5	14.0	-46.72	357.0	-379.2	520.8	505.4	15.42	33.771		
800.0	800.0	798.0	798.0	1.7	16.0	-46.72	357.0	-379.2	520.8	503.1	17.65	29.513		
900.0	900.0	898.0	898.0	1.9	18.0	-46.72	357.0	-379.2	520.8	500.9	19.87	26.209		
1,000.0	1,000.0	998.0	998.0	2.1	20.0	-46.72	357.0	-379.2	520.8	498.7	22.10	23.570		
1,100.0	1,100.0	1,098.0	1,098.0	2.4	22.0	-46.72	357.0	-379.2	520.8	496.5	24.32	21.414		
1,200.0	1,200.0	1,198.0	1,198.0	2.6	24.0	-46.72	357.0	-379.2	520.8	494.2	26.54	19.619		
1,300.0	1,300.0	1,298.0	1,298.0	2.8	26.0	-46.72	357.0	-379.2	520.8	492.0	28.77	18.102		
1,400.0	1,400.0	1,398.0	1,398.0	3.0	28.0	-46.72	357.0	-379.2	520.8	489.8	30.99	16.803		
1,500.0	1,500.0	1,498.0	1,498.0	3.3	30.0	-46.72	357.0	-379.2	520.8	487.6	33.22	15.677	CC	
1,600.0	1,600.0	1,598.0	1,598.0	3.5	32.0	-179.92	357.0	-379.2	522.5	487.1	35.40	14.762	ES	
1,700.0	1,699.8	1,697.8	1,697.8	3.6	34.0	-179.92	357.0	-379.2	527.8	490.3	37.51	14.071		
1,800.0	1,799.5	1,797.5	1,797.5	3.8	35.9	-179.92	357.0	-379.2	536.5	496.9	39.56	13.561		
1,900.0	1,898.7	1,896.7	1,896.7	4.1	37.9	-179.92	357.0	-379.2	548.7	507.1	41.55	13.204		
1,915.0	1,913.5	1,911.5	1,911.5	4.1	38.2	-179.92	357.0	-379.2	550.8	509.0	41.84	13.163		
2,000.0	1,997.7	1,995.7	1,995.7	4.3	39.9	-179.93	357.0	-379.2	563.1	519.4	43.68	12.892		
2,100.0	2,096.6	2,094.6	2,094.6	4.5	41.9	-179.93	357.0	-379.2	577.5	531.7	45.84	12.599		
2,200.0	2,195.6	2,193.6	2,193.6	4.8	43.9	-179.93	357.0	-379.2	591.9	543.9	48.00	12.331		
2,300.0	2,294.5	2,292.5	2,292.5	5.1	45.9	-179.93	357.0	-379.2	606.4	556.2	50.17	12.086		
2,400.0	2,393.5	2,391.5	2,391.5	5.4	47.8	-179.93	357.0	-379.2	620.8	568.5	52.34	11.860		
2,500.0	2,492.4	2,490.4	2,490.4	5.7	49.8	-179.93	357.0	-379.2	635.2	580.7	54.52	11.652		
2,600.0	2,591.4	2,589.4	2,589.4	6.0	51.8	-179.94	357.0	-379.2	649.7	593.0	56.70	11.459		
2,700.0	2,690.3	2,688.3	2,688.3	6.3	53.8	-179.94	357.0	-379.2	664.1	605.2	58.88	11.280		
2,800.0	2,789.3	2,787.3	2,787.3	6.6	55.7	-179.94	357.0	-379.2	678.6	617.5	61.06	11.113		
2,900.0	2,888.2	2,886.2	2,886.2	6.9	57.7	-179.94	357.0	-379.2	693.0	629.7	63.24	10.958		
3,000.0	2,987.2	2,985.2	2,985.2	7.2	59.7	-179.94	357.0	-379.2	707.4	642.0	65.43	10.813		
3,100.0	3,086.1	3,084.1	3,084.1	7.6	61.7	-179.94	357.0	-379.2	721.9	654.2	67.61	10.676		
3,200.0	3,185.1	3,183.1	3,183.1	7.9	63.7	-179.94	357.0	-379.2	736.3	666.5	69.80	10.548		
3,300.0	3,284.0	3,282.0	3,282.0	8.2	65.6	-179.94	357.0	-379.2	750.7	678.7	71.99	10.428		
3,400.0	3,383.0	3,381.0	3,381.0	8.6	67.6	-179.95	357.0	-379.2	765.2	691.0	74.18	10.315		
3,500.0	3,481.9	3,479.9	3,479.9	8.9	69.6	-179.95	357.0	-379.2	779.6	703.2	76.37	10.208		
3,600.0	3,580.9	3,578.9	3,578.9	9.2	71.6	-179.95	357.0	-379.2	794.0	715.5	78.56	10.107		
3,700.0	3,679.9	3,677.9	3,677.9	9.6	73.6	-179.95	357.0	-379.2	808.5	727.7	80.76	10.011		
3,800.0	3,778.8	3,776.8	3,776.8	9.9	75.5	-179.95	357.0	-379.2	822.9	740.0	82.95	9.920		
3,900.0	3,877.8	3,875.8	3,875.8	10.3	77.5	-179.95	357.0	-379.2	837.3	752.2	85.14	9.834		
4,000.0	3,976.7	3,974.7	3,974.7	10.6	79.5	-179.95	357.0	-379.2	851.8	764.4	87.34	9.752		
4,100.0	4,075.7	4,073.7	4,073.7	10.9	81.5	-179.95	357.0	-379.2	866.2	776.7	89.54	9.675		
4,200.0	4,174.6	4,172.6	4,172.6	11.3	83.5	-179.95	357.0	-379.2	880.6	788.9	91.73	9.600		
4,300.0	4,273.6	4,271.6	4,271.6	11.6	85.4	-179.95	357.0	-379.2	895.1	801.2	93.93	9.529		
4,400.0	4,372.5	4,370.5	4,370.5	12.0	87.4	-179.95	357.0	-379.2	909.5	813.4	96.12	9.462		
4,500.0	4,471.5	4,469.5	4,469.5	12.3	89.4	-179.95	357.0	-379.2	924.0	825.6	98.32	9.397		
4,600.0	4,570.4	4,568.4	4,568.4	12.7	91.4	-179.96	357.0	-379.2	938.4	837.9	100.52	9.335		
4,616.2	4,586.5	4,584.5	4,584.5	12.7	91.7	-179.96	357.0	-379.2	940.7	839.9	100.88	9.326		
4,700.0	4,669.5	4,667.5	4,667.5	13.0	93.4	-179.96	357.0	-379.2	951.6	848.5	103.07	9.233		
4,800.0	4,769.1	4,767.1	4,767.1	13.2	95.3	-179.96	357.0	-379.2	961.4	855.8	105.58	9.106		
4,900.0	4,868.9	4,866.9	4,866.9	13.4	97.3	-179.96	357.0	-379.2	967.7	859.8	107.97	8.963		

Offset Design Park T-4 Pad Sec.4-T4N-R63W - Park 34-4 (Exist.) - Wellbore #1 - Wellbore #1													Offset Site Error: 0.0 ft	
Survey Program: 6700-UNKNOWN													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)			
5,000.0	4,968.8	4,966.8	4,966.8	13.6	99.3	-179.96	357.0	-379.2	970.6	860.3	110.24	8.804		
5,031.2	5,000.0	4,998.0	4,998.0	13.6	100.0	-46.76	357.0	-379.2	970.7	859.8	110.93	8.751		
5,100.0	5,068.8	5,066.8	5,066.8	13.8	101.3	-46.76	357.0	-379.2	970.7	858.3	112.44	8.633		
5,200.0	5,168.8	5,166.8	5,166.8	13.9	103.3	-46.76	357.0	-379.2	970.7	856.1	114.64	8.468		
5,300.0	5,268.8	5,266.8	5,266.8	14.1	105.3	-46.76	357.0	-379.2	970.7	853.9	116.83	8.309		
5,400.0	5,368.8	5,366.8	5,366.8	14.2	107.3	-46.76	357.0	-379.2	970.7	851.7	119.03	8.155		
5,500.0	5,468.8	5,466.8	5,466.8	14.4	109.3	-46.76	357.0	-379.2	970.7	849.5	121.23	8.008		
5,600.0	5,568.8	5,566.8	5,566.8	14.6	111.3	-46.76	357.0	-379.2	970.7	847.3	123.43	7.865		
5,700.0	5,668.8	5,666.8	5,666.8	14.7	113.3	-46.76	357.0	-379.2	970.7	845.1	125.63	7.727		
5,800.0	5,768.8	5,766.8	5,766.8	14.9	115.3	-46.76	357.0	-379.2	970.7	842.9	127.83	7.594		
5,902.3	5,871.1	5,869.1	5,869.1	15.1	117.4	-46.76	357.0	-379.2	970.7	840.7	130.08	7.463		
5,950.0	5,918.7	5,916.7	5,916.7	15.2	118.3	-49.89	357.0	-379.2	969.3	838.5	130.85	7.408		
6,000.0	5,968.2	5,966.2	5,966.2	15.2	119.3	-50.59	357.0	-379.2	964.8	833.7	131.19	7.355		
6,050.0	6,016.8	6,014.8	6,014.8	15.2	120.3	-51.76	357.0	-379.2	957.4	826.3	131.14	7.301		
6,100.0	6,064.1	6,062.1	6,062.1	15.2	121.2	-53.43	357.0	-379.2	947.2	816.3	130.86	7.238		
6,150.0	6,109.6	6,107.6	6,107.6	15.2	122.2	-55.58	357.0	-379.2	934.4	803.8	130.55	7.157		
6,200.0	6,152.9	6,150.9	6,150.9	15.2	123.0	-58.21	357.0	-379.2	919.3	788.9	130.47	7.046		
6,250.0	6,193.6	6,191.6	6,191.6	15.2	123.8	-61.28	357.0	-379.2	902.4	771.6	130.83	6.898		
6,300.0	6,231.3	6,229.3	6,229.3	15.1	124.6	-64.73	357.0	-379.2	884.1	752.3	131.76	6.710		
6,350.0	6,265.7	6,263.7	6,263.7	15.1	125.3	-68.46	357.0	-379.2	864.8	731.5	133.24	6.490		
6,400.0	6,296.5	6,294.5	6,294.5	15.1	125.9	-72.35	357.0	-379.2	845.1	709.9	135.12	6.254		
6,450.0	6,323.3	6,321.3	6,321.3	15.0	126.4	-76.22	357.0	-379.2	825.5	688.4	137.13	6.020		
6,500.0	6,346.0	6,344.0	6,344.0	15.0	126.9	-79.89	357.0	-379.2	806.8	667.8	138.97	5.805		
6,550.0	6,364.3	6,362.3	6,362.3	14.9	127.2	-83.19	357.0	-379.2	789.4	649.0	140.47	5.620		
6,600.0	6,378.1	6,376.1	6,376.1	14.9	127.5	-85.98	357.0	-379.2	774.0	632.5	141.56	5.468		
6,650.0	6,387.2	6,385.2	6,385.2	15.0	127.7	-88.15	357.0	-379.2	761.1	618.8	142.29	5.349		
6,700.0	6,391.6	6,389.6	6,389.6	15.2	127.8	-89.61	357.0	-379.2	751.0	608.2	142.78	5.260		
6,720.5	6,392.0	6,390.0	6,390.0	15.4	127.8	-90.00	357.0	-379.2	747.8	604.9	142.94	5.232		
6,800.0	6,392.0	6,390.0	6,390.0	16.0	127.8	-90.00	357.0	-379.2	740.6	597.0	143.56	5.159		
6,821.6	6,392.0	6,390.0	6,390.0	16.2	127.8	-90.00	357.0	-379.2	740.1	596.3	143.75	5.149		
6,827.1	6,392.0	6,390.0	6,390.0	16.3	127.8	-90.00	357.0	-379.2	740.1	596.3	143.79	5.147		
6,828.7	6,392.0	6,390.0	6,390.0	16.3	127.8	-90.00	357.0	-379.2	740.1	596.3	143.80	5.146 SF		
6,900.0	6,392.0	6,390.0	6,390.0	16.9	127.8	-90.00	357.0	-379.2	743.7	599.3	144.38	5.151		
7,000.0	6,392.0	6,390.0	6,390.0	18.0	127.8	-90.00	357.0	-379.2	760.0	614.6	145.47	5.225		
7,100.0	6,392.0	6,390.0	6,390.0	19.3	127.8	-90.00	357.0	-379.2	788.8	642.1	146.69	5.377		
7,200.0	6,392.0	6,390.0	6,390.0	20.6	127.8	-90.00	357.0	-379.2	828.8	680.8	148.02	5.599		
7,300.0	6,392.0	6,390.0	6,390.0	22.0	127.8	-90.00	357.0	-379.2	878.4	728.9	149.44	5.878		
7,400.0	6,392.0	6,390.0	6,390.0	23.5	127.8	-90.00	357.0	-379.2	936.0	785.1	150.92	6.202		

Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well Park 44-41-4HNB
Project:	SEC.4-T4N-R63W	TVD Reference:	WELL @ 4639.0ft (RKB - 13')
Reference Site:	Park T-4 Pad Sec.4-T4N-R63W	MD Reference:	WELL @ 4639.0ft (RKB - 13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Park 44-41-4HNB	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 (12-3-12)	Offset TVD Reference:	Offset Datum

Offset Design Park T-4 Pad Sec.4-T4N-R63W - Park 41-4 (Exist.) - Wellbore #1 - Wellbore #1													Offset Site Error:	0.0 ft
Survey Program: 6700-UNKNOWN													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		
9,600.0	6,392.0	6,328.0	6,328.0	62.1	126.6	-90.00	4,047.5	256.4	991.2	802.7	188.49	5.258		
9,700.0	6,392.0	6,328.0	6,328.0	64.0	126.6	-90.00	4,047.5	256.4	896.3	705.9	190.35	4.709		
9,800.0	6,392.0	6,328.0	6,328.0	65.8	126.6	-90.00	4,047.5	256.4	802.7	610.4	192.21	4.176		
9,900.0	6,392.0	6,328.0	6,328.0	67.7	126.6	-90.00	4,047.5	256.4	710.8	516.7	194.07	3.662		
10,000.0	6,392.0	6,328.0	6,328.0	69.5	126.6	-90.00	4,047.5	256.4	621.4	425.4	195.94	3.171		
10,100.0	6,392.0	6,328.0	6,328.0	71.4	126.6	-90.00	4,047.5	256.4	535.7	337.9	197.81	2.708		
10,200.0	6,392.0	6,328.0	6,328.0	73.3	126.6	-90.00	4,047.5	256.4	456.0	256.3	199.68	2.283		
10,300.0	6,392.0	6,328.0	6,328.0	75.1	126.6	-90.00	4,047.5	256.4	385.8	184.2	201.55	1.914		
10,400.0	6,392.0	6,328.0	6,328.0	77.0	126.6	-90.00	4,047.5	256.4	331.2	127.8	203.42	1.628		
10,500.0	6,392.0	6,328.0	6,328.0	78.9	126.6	-90.00	4,047.5	256.4	301.0	95.7	205.30	1.466 Level 3		
10,545.5	6,392.0	6,328.0	6,328.0	79.7	126.6	-90.00	4,047.5	256.4	297.6	91.4	206.15	1.444 Level 3, CC, ES, SF		
10,600.0	6,392.0	6,328.0	6,328.0	80.7	126.6	-90.00	4,047.5	256.4	302.5	95.4	207.17	1.460 Level 3		
10,700.0	6,392.0	6,328.0	6,328.0	82.6	126.6	-90.00	4,047.5	256.4	335.3	126.3	209.05	1.604		
10,800.0	6,392.0	6,328.0	6,328.0	84.5	126.6	-90.00	4,047.5	256.4	391.6	180.7	210.93	1.857		
10,900.0	6,392.0	6,328.0	6,328.0	86.4	126.6	-90.00	4,047.5	256.4	462.9	250.1	212.81	2.175		
11,000.0	6,392.0	6,328.0	6,328.0	88.3	126.6	-90.00	4,047.5	256.4	543.3	328.6	214.69	2.531		
11,100.0	6,392.0	6,328.0	6,328.0	90.1	126.6	-90.00	4,047.5	256.4	629.3	412.8	216.57	2.906		
11,200.0	6,392.0	6,328.0	6,328.0	92.0	126.6	-90.00	4,047.5	256.4	719.0	500.6	218.45	3.291		
11,261.4	6,392.0	6,328.0	6,328.0	93.0	126.6	-90.00	4,047.5	256.4	775.3	556.0	219.39	3.534		
11,261.9	6,392.0	6,328.0	6,328.0	93.0	126.6	-90.00	4,047.5	256.4	775.7	556.3	219.40	3.536		

Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well Park 44-41-4HNB
Project:	SEC.4-T4N-R63W	TVD Reference:	WELL @ 4639.0ft (RKB - 13')
Reference Site:	Park T-4 Pad Sec.4-T4N-R63W	MD Reference:	WELL @ 4639.0ft (RKB - 13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Park 44-41-4HNB	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 (12-3-12)	Offset TVD Reference:	Offset Datum

Offset Design Park T-4 Pad Sec.4-T4N-R63W - Park 42-4 (Exist.) - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 ft
Survey Program: 6700-UNKNOWN												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						
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	Warning
8,800.0	6,392.0	6,416.0	6,416.0	47.4	128.3	90.00	3,165.9	752.6	923.7	748.1	175.53	5.262	
8,900.0	6,392.0	6,416.0	6,416.0	49.2	128.3	90.00	3,165.9	752.6	827.6	650.3	177.35	4.667	
9,000.0	6,392.0	6,416.0	6,416.0	51.1	128.3	90.00	3,165.9	752.6	732.7	553.5	179.18	4.089	
9,100.0	6,392.0	6,416.0	6,416.0	52.9	128.3	90.00	3,165.9	752.6	639.2	458.2	181.02	3.531	
9,200.0	6,392.0	6,416.0	6,416.0	54.7	128.3	90.00	3,165.9	752.6	548.1	365.3	182.85	2.998	
9,300.0	6,392.0	6,416.0	6,416.0	56.6	128.3	90.00	3,165.9	752.6	460.7	276.0	184.70	2.494	
9,400.0	6,392.0	6,416.0	6,416.0	58.4	128.3	90.00	3,165.9	752.6	379.6	193.0	186.55	2.035	
9,500.0	6,392.0	6,416.0	6,416.0	60.3	128.3	90.00	3,165.9	752.6	309.7	121.3	188.40	1.644	
9,600.0	6,392.0	6,416.0	6,416.0	62.1	128.3	90.00	3,165.9	752.6	260.3	70.0	190.25	1.368	Level 3
9,690.9	6,392.0	6,416.0	6,416.0	63.8	128.3	90.00	3,165.9	752.6	243.9	51.9	191.94	1.271	Level 3, CC, ES
9,700.0	6,392.0	6,416.0	6,416.0	64.0	128.3	90.00	3,165.9	752.6	244.0	51.9	192.11	1.270	Level 3, SF
9,800.0	6,392.0	6,416.0	6,416.0	65.8	128.3	90.00	3,165.9	752.6	267.2	73.2	193.97	1.377	Level 3
9,900.0	6,392.0	6,416.0	6,416.0	67.7	128.3	90.00	3,165.9	752.6	321.2	125.4	195.83	1.640	
10,000.0	6,392.0	6,416.0	6,416.0	69.5	128.3	90.00	3,165.9	752.6	393.7	196.0	197.70	1.992	
10,100.0	6,392.0	6,416.0	6,416.0	71.4	128.3	90.00	3,165.9	752.6	476.3	276.7	199.57	2.387	
10,200.0	6,392.0	6,416.0	6,416.0	73.3	128.3	90.00	3,165.9	752.6	564.5	363.1	201.44	2.802	
10,300.0	6,392.0	6,416.0	6,416.0	75.1	128.3	90.00	3,165.9	752.6	656.1	452.8	203.31	3.227	
10,400.0	6,392.0	6,416.0	6,416.0	77.0	128.3	90.00	3,165.9	752.6	749.9	544.7	205.18	3.655	
10,500.0	6,392.0	6,416.0	6,416.0	78.9	128.3	90.00	3,165.9	752.6	845.1	638.0	207.06	4.081	
10,600.0	6,392.0	6,416.0	6,416.0	80.7	128.3	90.00	3,165.9	752.6	941.3	732.3	208.93	4.505	

Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well Park 44-41-4HNB
Project:	SEC.4-T4N-R63W	TVD Reference:	WELL @ 4639.0ft (RKB - 13')
Reference Site:	Park T-4 Pad Sec.4-T4N-R63W	MD Reference:	WELL @ 4639.0ft (RKB - 13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Park 44-41-4HNB	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 (12-3-12)	Offset TVD Reference:	Offset Datum

Offset Design Park T-4 Pad Sec.4-T4N-R63W - Park 43-4 (Exist.) - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 ft
Survey Program: 6700-UNKNOWN												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						
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	Warning
7,500.0	6,392.0	6,329.0	6,329.0	25.0	126.6	90.00	1,949.1	618.9	984.2	833.0	151.25	6.507	
7,600.0	6,392.0	6,329.0	6,329.0	26.6	126.6	90.00	1,949.1	618.9	886.0	733.1	152.84	5.797	
7,700.0	6,392.0	6,329.0	6,329.0	28.2	126.6	90.00	1,949.1	618.9	788.1	633.7	154.47	5.102	
7,800.0	6,392.0	6,329.0	6,329.0	29.9	126.6	90.00	1,949.1	618.9	691.0	534.8	156.13	4.425	
7,900.0	6,392.0	6,329.0	6,329.0	31.5	126.6	90.00	1,949.1	618.9	594.7	436.9	157.82	3.768	
8,000.0	6,392.0	6,329.0	6,329.0	33.2	126.6	90.00	1,949.1	618.9	499.9	340.4	159.54	3.133	
8,100.0	6,392.0	6,329.0	6,329.0	35.0	126.6	90.00	1,949.1	618.9	407.6	246.3	161.27	2.528	
8,200.0	6,392.0	6,329.0	6,329.0	36.7	126.6	90.00	1,949.1	618.9	320.0	157.0	163.03	1.963	
8,300.0	6,392.0	6,329.0	6,329.0	38.5	126.6	90.00	1,949.1	618.9	242.2	77.4	164.79	1.470	Level 3
8,400.0	6,392.0	6,329.0	6,329.0	40.2	126.6	90.00	1,949.1	618.9	186.8	20.2	166.57	1.121	Level 2
8,468.8	6,392.0	6,329.0	6,329.0	41.5	126.6	90.00	1,949.1	618.9	173.7	5.9	167.80	1.035	Level 2, CC, ES, SF
8,500.0	6,392.0	6,329.0	6,329.0	42.0	126.6	90.00	1,949.1	618.9	176.4	8.1	168.36	1.048	Level 2
8,600.0	6,392.0	6,329.0	6,329.0	43.8	126.6	90.00	1,949.1	618.9	217.7	47.5	170.16	1.279	Level 3
8,700.0	6,392.0	6,329.0	6,329.0	45.6	126.6	90.00	1,949.1	618.9	289.2	117.2	171.97	1.682	
8,800.0	6,392.0	6,329.0	6,329.0	47.4	126.6	90.00	1,949.1	618.9	374.0	200.2	173.79	2.152	
8,900.0	6,392.0	6,329.0	6,329.0	49.2	126.6	90.00	1,949.1	618.9	464.9	289.3	175.61	2.647	
9,000.0	6,392.0	6,329.0	6,329.0	51.1	126.6	90.00	1,949.1	618.9	558.9	381.4	177.44	3.150	
9,100.0	6,392.0	6,329.0	6,329.0	52.9	126.6	90.00	1,949.1	618.9	654.7	475.4	179.28	3.652	
9,200.0	6,392.0	6,329.0	6,329.0	54.7	126.6	90.00	1,949.1	618.9	751.6	570.4	181.11	4.150	
9,300.0	6,392.0	6,329.0	6,329.0	56.6	126.6	90.00	1,949.1	618.9	849.2	666.2	182.96	4.641	
9,400.0	6,392.0	6,329.0	6,329.0	58.4	126.6	90.00	1,949.1	618.9	947.3	762.5	184.81	5.126	

Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well Park 44-41-4HNB
Project:	SEC.4-T4N-R63W	TVD Reference:	WELL @ 4639.0ft (RKB - 13')
Reference Site:	Park T-4 Pad Sec.4-T4N-R63W	MD Reference:	WELL @ 4639.0ft (RKB - 13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Park 44-41-4HNB	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 (12-3-12)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 6700-UNKNOWN													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	46.70	612.0	649.6	893.3					
100.0	100.0	63.0	63.0	0.1	1.3	46.70	612.0	649.6	892.5	891.1	1.37	650.229		
200.0	200.0	163.0	163.0	0.3	3.3	46.70	612.0	649.6	892.5	888.9	3.60	248.097		
300.0	300.0	263.0	263.0	0.6	5.3	46.70	612.0	649.6	892.5	886.7	5.82	153.294		
400.0	400.0	363.0	363.0	0.8	7.3	46.70	612.0	649.6	892.5	884.4	8.05	110.912		
500.0	500.0	463.0	463.0	1.0	9.3	46.70	612.0	649.6	892.5	882.2	10.27	86.889		
600.0	600.0	563.0	563.0	1.2	11.3	46.70	612.0	649.6	892.5	880.0	12.50	71.420		
700.0	700.0	663.0	663.0	1.5	13.3	46.70	612.0	649.6	892.5	877.8	14.72	60.626		
800.0	800.0	763.0	763.0	1.7	15.3	46.70	612.0	649.6	892.5	875.5	16.95	52.667		
900.0	900.0	863.0	863.0	1.9	17.3	46.70	612.0	649.6	892.5	873.3	19.17	46.555		
1,000.0	1,000.0	963.0	963.0	2.1	19.3	46.70	612.0	649.6	892.5	871.1	21.40	41.714		
1,100.0	1,100.0	1,063.0	1,063.0	2.4	21.3	46.70	612.0	649.6	892.5	868.9	23.62	37.785		
1,200.0	1,200.0	1,163.0	1,163.0	2.6	23.3	46.70	612.0	649.6	892.5	866.6	25.84	34.532		
1,300.0	1,300.0	1,263.0	1,263.0	2.8	25.3	46.70	612.0	649.6	892.5	864.4	28.07	31.796		
1,400.0	1,400.0	1,363.0	1,363.0	3.0	27.3	46.70	612.0	649.6	892.5	862.2	30.29	29.461		
1,500.0	1,500.0	1,463.0	1,463.0	3.3	29.3	46.70	612.0	649.6	892.5	860.0	32.52	27.445		
1,600.0	1,600.0	1,563.0	1,563.0	3.5	31.3	-86.61	612.0	649.6	892.4	857.7	34.72	25.703		
1,700.0	1,699.8	1,662.8	1,662.8	3.6	33.3	-86.95	612.0	649.6	892.1	855.2	36.90	24.176		
1,800.0	1,799.5	1,762.5	1,762.5	3.8	35.2	-87.52	612.0	649.6	891.7	852.6	39.09	22.812		
1,900.0	1,898.7	1,861.7	1,861.7	4.1	37.2	-88.30	612.0	649.6	891.2	849.9	41.29	21.587		
1,915.0	1,913.5	1,876.5	1,876.5	4.1	37.5	-88.44	612.0	649.6	891.2	849.5	41.62	21.413		
2,000.0	1,997.7	1,960.7	1,960.7	4.3	39.2	-89.22	612.0	649.6	890.9	847.4	43.50	20.480		
2,085.1	2,081.9	2,044.9	2,044.9	4.5	40.9	-90.00	612.0	649.6	890.8	845.4	45.40	19.621		
2,100.0	2,096.6	2,059.6	2,059.6	4.5	41.2	-90.14	612.0	649.6	890.8	845.1	45.73	19.478		
2,200.0	2,195.6	2,158.6	2,158.6	4.8	43.2	-91.06	612.0	649.6	891.0	843.0	47.98	18.570		
2,300.0	2,294.5	2,257.5	2,257.5	5.1	45.2	-91.97	612.0	649.6	891.4	841.1	50.24	17.743		
2,400.0	2,393.5	2,356.5	2,356.5	5.4	47.1	-92.89	612.0	649.6	892.0	839.5	52.50	16.989		
2,500.0	2,492.4	2,455.4	2,455.4	5.7	49.1	-93.81	612.0	649.6	892.8	838.1	54.78	16.300		
2,600.0	2,591.4	2,554.4	2,554.4	6.0	51.1	-94.72	612.0	649.6	893.9	836.9	57.06	15.668		
2,700.0	2,690.3	2,653.3	2,653.3	6.3	53.1	-95.63	612.0	649.6	895.2	835.9	59.34	15.087		
2,800.0	2,789.3	2,752.3	2,752.3	6.6	55.0	-96.54	612.0	649.6	896.8	835.2	61.63	14.552		
2,900.0	2,888.2	2,851.2	2,851.2	6.9	57.0	-97.44	612.0	649.6	898.6	834.6	63.92	14.058		
3,000.0	2,987.2	2,950.2	2,950.2	7.2	59.0	-98.35	612.0	649.6	900.6	834.3	66.21	13.601		
3,100.0	3,086.1	3,049.1	3,049.1	7.6	61.0	-99.24	612.0	649.6	902.8	834.3	68.51	13.178		
3,200.0	3,185.1	3,148.1	3,148.1	7.9	63.0	-100.14	612.0	649.6	905.2	834.4	70.80	12.785		
3,300.0	3,284.0	3,247.0	3,247.0	8.2	64.9	-101.02	612.0	649.6	907.9	834.8	73.10	12.420		
3,400.0	3,383.0	3,346.0	3,346.0	8.6	66.9	-101.91	612.0	649.6	910.8	835.4	75.40	12.080		
3,500.0	3,481.9	3,444.9	3,444.9	8.9	68.9	-102.78	612.0	649.6	913.9	836.2	77.69	11.763		
3,600.0	3,580.9	3,543.9	3,543.9	9.2	70.9	-103.65	612.0	649.6	917.3	837.3	79.99	11.467		
3,700.0	3,679.9	3,642.9	3,642.9	9.6	72.9	-104.52	612.0	649.6	920.8	838.5	82.29	11.191		
3,800.0	3,778.8	3,741.8	3,741.8	9.9	74.8	-105.38	612.0	649.6	924.6	840.0	84.58	10.932		
3,900.0	3,877.8	3,840.8	3,840.8	10.3	76.8	-106.23	612.0	649.6	928.5	841.7	86.87	10.689		
4,000.0	3,976.7	3,939.7	3,939.7	10.6	78.8	-107.07	612.0	649.6	932.7	843.6	89.16	10.461		
4,100.0	4,075.7	4,038.7	4,038.7	10.9	80.8	-107.91	612.0	649.6	937.1	845.7	91.45	10.247		
4,200.0	4,174.6	4,137.6	4,137.6	11.3	82.8	-108.73	612.0	649.6	941.7	847.9	93.74	10.046		
4,300.0	4,273.6	4,236.6	4,236.6	11.6	84.7	-109.55	612.0	649.6	946.5	850.4	96.02	9.856		
4,400.0	4,372.5	4,335.5	4,335.5	12.0	86.7	-110.36	612.0	649.6	951.4	853.1	98.31	9.678		
4,500.0	4,471.5	4,434.5	4,434.5	12.3	88.7	-111.17	612.0	649.6	956.6	856.0	100.59	9.510		
4,600.0	4,570.4	4,533.4	4,533.4	12.7	90.7	-111.96	612.0	649.6	962.0	859.1	102.87	9.351		
4,616.2	4,586.5	4,549.5	4,549.5	12.7	91.0	-112.09	612.0	649.6	962.8	859.6	103.24	9.327		
4,700.0	4,669.5	4,632.5	4,632.5	13.0	92.7	-112.76	612.0	649.6	967.0	861.9	105.16	9.196		
4,800.0	4,769.1	4,732.1	4,732.1	13.2	94.6	-113.36	612.0	649.6	970.9	863.5	107.41	9.039		

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

Park T-4 Pad Sec.4-T4N-R63W - Park 44-4 (Exist.) - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 ft
Survey Program: 6700-UNKNOWN												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	4,868.9	4,831.9	4,831.9	13.4	96.6	-113.75	612.0	649.6	973.4	863.8	109.62	8.880	
5,000.0	4,968.8	4,931.8	4,931.8	13.6	98.6	-113.92	612.0	649.6	974.6	862.7	111.81	8.717	
5,031.2	5,000.0	4,963.0	4,963.0	13.6	99.3	19.27	612.0	649.6	974.6	862.2	112.38	8.673	
5,100.0	5,068.8	5,031.8	5,031.8	13.8	100.6	19.27	612.0	649.6	974.6	860.8	113.87	8.559	
5,200.0	5,168.8	5,131.8	5,131.8	13.9	102.6	19.27	612.0	649.6	974.6	858.6	116.04	8.399	
5,300.0	5,268.8	5,231.8	5,231.8	14.1	104.6	19.27	612.0	649.6	974.6	856.4	118.21	8.245	
5,400.0	5,368.8	5,331.8	5,331.8	14.2	106.6	19.27	612.0	649.6	974.6	854.2	120.38	8.096	
5,500.0	5,468.8	5,431.8	5,431.8	14.4	108.6	19.27	612.0	649.6	974.6	852.1	122.55	7.953	
5,600.0	5,568.8	5,531.8	5,531.8	14.6	110.6	19.27	612.0	649.6	974.6	849.9	124.72	7.814	
5,700.0	5,668.8	5,631.8	5,631.8	14.7	112.6	19.27	612.0	649.6	974.6	847.7	126.90	7.680	
5,800.0	5,768.8	5,731.8	5,731.8	14.9	114.6	19.27	612.0	649.6	974.6	845.5	129.08	7.551	
5,902.3	5,871.1	5,834.1	5,834.1	15.1	116.7	19.27	612.0	649.6	974.6	843.3	131.31	7.423	
5,950.0	5,918.7	5,881.7	5,881.7	15.2	117.6	16.45	612.0	649.6	972.5	840.6	131.91	7.373	
6,000.0	5,968.2	5,931.2	5,931.2	15.2	118.6	16.78	612.0	649.6	965.9	834.5	131.36	7.353	
6,050.0	6,016.8	5,979.8	5,979.8	15.2	119.6	17.35	612.0	649.6	954.7	825.0	129.70	7.361	
6,100.0	6,064.1	6,027.1	6,027.1	15.2	120.5	18.20	612.0	649.6	939.1	812.1	126.99	7.395	
6,150.0	6,109.6	6,072.6	6,072.6	15.2	121.5	19.38	612.0	649.6	919.3	796.0	123.34	7.454	
6,200.0	6,152.9	6,115.9	6,115.9	15.2	122.3	20.94	612.0	649.6	895.5	776.6	118.93	7.529	
6,250.0	6,193.6	6,156.6	6,156.6	15.2	123.1	22.99	612.0	649.6	867.9	753.8	114.10	7.607	
6,300.0	6,231.3	6,194.3	6,194.3	15.1	123.9	25.66	612.0	649.6	836.9	727.5	109.36	7.652	
6,350.0	6,265.7	6,228.7	6,228.7	15.1	124.6	29.12	612.0	649.6	802.7	697.2	105.52	7.607	
6,400.0	6,296.5	6,259.5	6,259.5	15.1	125.2	33.61	612.0	649.6	765.8	662.1	103.71	7.384	
6,450.0	6,323.3	6,286.3	6,286.3	15.0	125.7	39.41	612.0	649.6	726.6	621.4	105.23	6.905	
6,500.0	6,346.0	6,309.0	6,309.0	15.0	126.2	46.75	612.0	649.6	685.6	574.7	110.91	6.182	
6,550.0	6,364.3	6,327.3	6,327.3	14.9	126.5	55.71	612.0	649.6	643.3	523.1	120.12	5.355	
6,600.0	6,378.1	6,341.1	6,341.1	14.9	126.8	65.96	612.0	649.6	600.2	469.8	130.34	4.604	
6,650.0	6,387.2	6,350.2	6,350.2	15.0	127.0	76.59	612.0	649.6	556.9	418.7	138.23	4.029	
6,700.0	6,391.6	6,354.6	6,354.6	15.2	127.1	86.43	612.0	649.6	514.2	372.3	141.89	3.624	
6,720.5	6,392.0	6,355.0	6,355.0	15.4	127.1	90.00	612.0	649.6	496.9	354.7	142.24	3.494	
6,800.0	6,392.0	6,355.0	6,355.0	16.0	127.1	90.00	612.0	649.6	432.9	290.0	142.86	3.030	
6,821.6	6,392.0	6,355.0	6,355.0	16.2	127.1	90.00	612.0	649.6	416.4	273.3	143.05	2.911	
6,828.7	6,392.0	6,355.0	6,355.0	16.3	127.1	90.00	612.0	649.6	411.1	268.0	143.10	2.873	
6,900.0	6,392.0	6,355.0	6,355.0	16.9	127.1	90.00	612.0	649.6	361.1	217.4	143.68	2.513	
7,000.0	6,392.0	6,355.0	6,355.0	18.0	127.1	90.00	612.0	649.6	305.5	160.7	144.77	2.110	
7,100.0	6,392.0	6,355.0	6,355.0	19.3	127.1	90.00	612.0	649.6	276.2	130.2	145.99	1.892	
7,135.2	6,392.0	6,355.0	6,355.0	19.7	127.1	90.00	612.0	649.6	274.0	127.5	146.46	1.871 CC, ES, SF	
7,200.0	6,392.0	6,355.0	6,355.0	20.6	127.1	90.00	612.0	649.6	281.5	134.2	147.32	1.911	
7,300.0	6,392.0	6,355.0	6,355.0	22.0	127.1	90.00	612.0	649.6	319.7	171.0	148.74	2.150	
7,400.0	6,392.0	6,355.0	6,355.0	23.5	127.1	90.00	612.0	649.6	381.0	230.8	150.22	2.536	
7,500.0	6,392.0	6,355.0	6,355.0	25.0	127.1	90.00	612.0	649.6	456.2	304.5	151.77	3.006	
7,600.0	6,392.0	6,355.0	6,355.0	26.6	127.1	90.00	612.0	649.6	539.6	386.2	153.36	3.518	
7,700.0	6,392.0	6,355.0	6,355.0	28.2	127.1	90.00	612.0	649.6	627.8	472.8	154.99	4.050	
7,800.0	6,392.0	6,355.0	6,355.0	29.9	127.1	90.00	612.0	649.6	719.1	562.4	156.65	4.590	
7,900.0	6,392.0	6,355.0	6,355.0	31.5	127.1	90.00	612.0	649.6	812.4	654.1	158.34	5.131	
8,000.0	6,392.0	6,355.0	6,355.0	33.2	127.1	90.00	612.0	649.6	907.2	747.1	160.06	5.668	

Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well Park 44-41-4HNB
Project:	SEC.4-T4N-R63W	TVD Reference:	WELL @ 4639.0ft (RKB - 13')
Reference Site:	Park T-4 Pad Sec.4-T4N-R63W	MD Reference:	WELL @ 4639.0ft (RKB - 13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Park 44-41-4HNB	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 (12-3-12)	Offset TVD Reference:	Offset Datum

Offset Design		PARK T-P-4HZ PAD SEC.4- T4N-R63W - Park R-4 (Exist.) - Wellbore #1 - Wellbore #1											Offset Site Error:		0.0 ft	
Survey Program: 783-MWD														Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor				
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)					
0.0	0.0	0.0	0.0	0.0	0.0	3.79	969.1	64.1	971.6							
100.0	100.0	72.0	72.0	0.1	0.1	3.79	969.1	64.1	971.2	971.0	0.19	5,017.692				
200.0	200.0	172.0	172.0	0.3	0.2	3.79	969.0	64.2	971.2	970.6	0.53	1,829.742				
300.0	300.0	272.0	272.0	0.6	0.3	3.80	969.0	64.3	971.2	970.3	0.87	1,118.872				
400.0	400.0	372.0	372.0	0.8	0.4	3.80	969.0	64.4	971.2	970.0	1.21	805.807				
500.0	500.0	472.0	472.0	1.0	0.5	3.81	969.0	64.6	971.2	969.6	1.54	629.631				
600.0	600.0	572.1	572.1	1.2	0.6	3.83	969.0	64.8	971.2	969.3	1.88	516.669				
700.0	700.0	672.1	672.1	1.5	0.8	3.84	969.0	65.1	971.1	968.9	2.22	438.073				
800.0	800.0	772.1	772.1	1.7	0.9	3.86	968.9	65.4	971.1	968.6	2.55	380.231				
805.4	805.4	777.5	777.5	1.7	0.9	3.87	968.9	65.5	971.1	968.6	2.57	377.526				
900.0	900.0	847.0	847.0	1.9	1.0	3.87	969.7	65.6	972.3	969.4	2.93	332.342				
1,000.0	1,000.0	916.4	916.3	2.1	1.2	3.85	972.6	65.4	976.4	973.1	3.29	296.323				
1,100.0	1,100.0	973.0	972.8	2.4	1.3	3.80	976.6	64.8	983.8	980.2	3.64	270.480				
1,200.0	1,200.0	1,067.0	1,066.2	2.6	1.5	3.67	986.7	63.3	994.4	990.3	4.08	243.651				
8,200.0	6,392.0	6,615.2	6,337.9	36.7	30.5	-87.41	2,532.0	-103.1	997.9	931.3	66.58	14.988				
8,300.0	6,392.0	6,618.2	6,340.9	38.5	30.5	-87.71	2,532.1	-103.1	918.2	849.9	68.37	13.431				
8,400.0	6,392.0	6,621.1	6,343.8	40.2	30.5	-87.99	2,532.1	-103.1	842.9	772.7	70.16	12.013				
8,500.0	6,392.0	6,623.9	6,346.6	42.0	30.5	-88.28	2,532.2	-103.1	773.1	701.2	71.97	10.742				
8,600.0	6,392.0	6,626.7	6,349.4	43.8	30.5	-88.55	2,532.3	-103.1	710.7	636.9	73.79	9.631				
8,700.0	6,392.0	6,629.5	6,352.2	45.6	30.5	-88.83	2,532.4	-103.1	657.5	581.9	75.61	8.696				
8,800.0	6,392.0	6,632.2	6,354.9	47.4	30.5	-89.10	2,532.4	-103.1	616.1	538.7	77.44	7.956				
8,900.0	6,392.0	6,634.9	6,357.6	49.2	30.5	-89.37	2,532.5	-103.1	588.9	509.6	79.28	7.429				
9,000.0	6,392.0	6,637.5	6,360.2	51.1	30.5	-89.63	2,532.6	-103.2	578.0	496.8	81.12	7.125				
9,013.9	6,392.0	6,637.9	6,360.6	51.3	30.5	-89.66	2,532.6	-103.2	577.8	496.4	81.37	7.101 CC, ES				
9,100.0	6,392.0	6,640.2	6,362.8	52.9	30.5	-89.89	2,532.7	-103.2	584.2	501.2	82.96	7.042 SF				
9,200.0	6,392.0	6,642.7	6,365.4	54.7	30.5	-90.14	2,532.7	-103.2	607.0	522.2	84.81	7.158				
9,300.0	6,392.0	6,647.0	6,369.7	56.6	30.6	-90.56	2,532.8	-103.2	644.7	558.0	86.66	7.440				
9,400.0	6,392.0	6,647.8	6,370.4	58.4	30.6	-90.64	2,532.8	-103.2	694.9	606.3	88.51	7.851				
9,500.0	6,392.0	6,650.3	6,372.9	60.3	30.6	-90.89	2,532.9	-103.2	755.0	664.6	90.36	8.355				
9,600.0	6,392.0	6,652.7	6,375.4	62.1	30.6	-91.13	2,533.0	-103.2	822.9	730.7	92.22	8.923				
9,700.0	6,392.0	6,655.2	6,377.9	64.0	30.6	-91.37	2,533.0	-103.2	896.8	802.7	94.07	9.533				
9,800.0	6,392.0	6,657.6	6,380.3	65.8	30.6	-91.61	2,533.1	-103.2	975.4	879.5	95.93	10.168				

Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well Park 44-41-4HNB
Project:	SEC.4-T4N-R63W	TVD Reference:	WELL @ 4639.0ft (RKB - 13')
Reference Site:	Park T-4 Pad Sec.4-T4N-R63W	MD Reference:	WELL @ 4639.0ft (RKB - 13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Park 44-41-4HNB	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 (12-3-12)	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 ft
Survey Program: 783-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						
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	Warning
0.0	0.0	0.0	0.0	0.0	0.0	2.96	969.1	50.2	970.8				
100.0	100.0	71.7	71.7	0.1	0.1	2.96	969.1	50.2	970.4	970.2	0.19	5,024.544	
200.0	200.0	171.3	171.3	0.3	0.2	2.96	969.1	50.2	970.4	969.9	0.53	1,831.823	
300.0	300.0	270.9	270.9	0.6	0.3	2.96	969.2	50.1	970.5	969.6	0.87	1,120.185	
400.0	400.0	370.5	370.5	0.8	0.4	2.96	969.4	50.1	970.7	969.4	1.20	806.846	
500.0	500.0	470.1	470.1	1.0	0.5	2.96	969.5	50.1	970.8	969.3	1.54	630.552	
600.0	600.0	569.7	569.7	1.2	0.6	2.95	969.8	50.0	971.0	969.2	1.88	517.540	
700.0	700.0	669.2	669.2	1.5	0.8	2.95	970.0	49.9	971.3	969.1	2.21	438.930	
800.0	800.0	768.8	768.8	1.7	0.9	2.94	970.3	49.8	971.6	969.1	2.55	381.096	
900.0	900.0	864.8	864.8	1.9	1.1	2.85	970.8	48.4	972.0	969.0	2.97	327.419	
1,000.0	1,000.0	949.2	949.0	2.1	1.3	2.51	972.4	42.6	973.6	970.2	3.38	287.746	
1,100.0	1,100.0	1,045.2	1,044.3	2.4	1.5	1.88	975.3	32.1	976.2	972.4	3.85	253.832	
1,200.0	1,200.0	1,154.5	1,152.6	2.6	1.8	1.03	978.4	17.6	978.8	974.4	4.36	224.564	
1,300.0	1,300.0	1,266.9	1,263.7	2.8	2.1	0.04	979.9	0.6	979.9	975.1	4.88	200.631	
1,400.0	1,400.0	1,368.1	1,363.9	3.0	2.4	-0.83	980.6	-14.2	980.8	975.4	5.37	182.758	
1,500.0	1,500.0	1,483.6	1,478.1	3.3	2.8	-1.83	980.7	-31.2	981.2	975.3	5.90	166.392	
1,546.6	1,546.6	1,536.2	1,529.9	3.4	2.9	-135.54	979.9	-39.7	981.0	974.7	6.27	156.436	
1,600.0	1,600.0	1,591.3	1,584.3	3.5	3.1	-136.10	978.8	-48.5	981.3	974.8	6.56	149.659	
1,700.0	1,699.8	1,693.8	1,685.5	3.6	3.4	-137.23	976.5	-64.7	983.8	976.7	7.07	139.072	
1,800.0	1,799.5	1,791.7	1,782.2	3.8	3.8	-138.39	974.0	-80.0	989.0	981.5	7.58	130.484	
1,900.0	1,898.7	1,862.9	1,852.6	4.1	4.0	-139.21	973.2	-90.7	998.6	990.6	7.99	124.948	
6,650.0	6,387.2	6,377.4	6,360.6	15.0	13.3	-79.81	970.6	-200.3	995.2	968.3	26.89	37.008	
6,700.0	6,391.6	6,381.5	6,364.7	15.2	13.3	-87.25	970.6	-200.3	955.7	928.1	27.57	34.659	
6,720.5	6,392.0	6,381.8	6,365.0	15.4	13.3	-90.09	970.6	-200.3	939.7	911.9	27.77	33.839	
6,800.0	6,392.0	6,381.4	6,364.6	16.0	13.3	-90.06	970.6	-200.3	879.4	851.0	28.39	30.980	
6,821.6	6,392.0	6,381.3	6,364.5	16.2	13.3	-90.05	970.6	-200.3	863.6	835.0	28.58	30.220	
6,828.7	6,392.0	6,381.3	6,364.5	16.3	13.3	-90.05	970.6	-200.3	858.4	829.8	28.63	29.984	
6,900.0	6,392.0	6,381.0	6,364.2	16.9	13.3	-90.02	970.6	-200.3	808.4	779.2	29.21	27.681	
7,000.0	6,392.0	6,380.5	6,363.7	18.0	13.3	-89.97	970.6	-200.3	744.2	713.9	30.30	24.561	
7,100.0	6,392.0	6,380.0	6,363.2	19.3	13.3	-89.93	970.6	-200.3	688.5	656.9	31.52	21.842	
7,200.0	6,392.0	6,379.6	6,362.8	20.6	13.3	-89.88	970.6	-200.3	643.6	610.7	32.85	19.593	
7,300.0	6,392.0	6,379.1	6,362.3	22.0	13.3	-89.84	970.6	-200.3	611.9	577.6	34.26	17.859	
7,400.0	6,392.0	6,378.7	6,361.9	23.5	13.3	-89.79	970.6	-200.3	595.5	559.7	35.74	16.659	
7,449.0	6,392.0	6,378.4	6,361.6	24.2	13.3	-89.77	970.6	-200.3	593.4	556.9	36.50	16.259 CC, ES	
7,500.0	6,392.0	6,378.2	6,361.4	25.0	13.3	-89.75	970.6	-200.3	595.6	558.3	37.29	15.974	
7,600.0	6,392.0	6,377.7	6,360.9	26.6	13.3	-89.70	970.6	-200.3	612.3	573.5	38.88	15.751 SF	
7,700.0	6,392.0	6,377.3	6,360.5	28.2	13.3	-89.66	970.6	-200.3	644.3	603.8	40.50	15.908	
7,800.0	6,392.0	6,376.8	6,360.0	29.9	13.3	-89.61	970.6	-200.3	689.5	647.3	42.17	16.351	
7,900.0	6,392.0	6,376.3	6,359.5	31.5	13.3	-89.57	970.6	-200.3	745.4	701.5	43.86	16.996	
8,000.0	6,392.0	6,375.9	6,359.1	33.2	13.3	-89.52	970.6	-200.3	809.8	764.2	45.57	17.771	
8,100.0	6,392.0	6,375.4	6,358.6	35.0	13.3	-89.48	970.6	-200.3	880.9	833.6	47.30	18.623	
8,200.0	6,392.0	6,374.9	6,358.1	36.7	13.3	-89.43	970.6	-200.3	957.2	908.1	49.05	19.513	

Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well Park 44-41-4HNB
Project:	SEC.4-T4N-R63W	TVD Reference:	WELL @ 4639.0ft (RKB - 13')
Reference Site:	Park T-4 Pad Sec.4-T4N-R63W	MD Reference:	WELL @ 4639.0ft (RKB - 13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Park 44-41-4HNB	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 (12-3-12)	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 ft
Survey Program: 760-MWD												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	1.0	1.0	0.0	0.0	-77.38	21.9	-97.6	100.0	100.0	0.00	N/A CC	
100.0	100.0	100.9	100.9	0.1	0.1	-77.37	21.9	-97.6	100.0	99.8	0.23	442.442	
200.0	200.0	200.8	200.8	0.3	0.2	-77.34	21.9	-97.7	100.2	99.6	0.56	177.837	
300.0	300.0	300.7	300.7	0.6	0.3	-77.30	22.1	-97.9	100.4	99.5	0.90	111.490	
400.0	400.0	400.6	400.6	0.8	0.5	-77.25	22.2	-98.2	100.7	99.5	1.24	81.364	
500.0	500.0	500.6	500.6	1.0	0.6	-77.17	22.4	-98.6	101.1	99.5	1.57	64.194	
600.0	600.0	600.5	600.5	1.2	0.7	-77.09	22.7	-99.0	101.6	99.7	1.91	53.125	
700.0	700.0	700.4	700.4	1.5	0.8	-76.98	23.0	-99.5	102.1	99.9	2.25	45.414	
800.0	800.0	800.3	800.3	1.7	0.9	-76.88	23.3	-100.1	102.8	100.2	2.63	39.125	
900.0	900.0	900.2	900.2	1.9	1.2	-76.84	23.6	-100.8	103.5	100.5	3.07	33.760	
1,000.0	1,000.0	1,000.1	1,000.1	2.1	1.4	-76.90	23.7	-101.6	104.3	100.8	3.51	29.761	
1,100.0	1,100.0	1,100.3	1,100.3	2.4	1.6	-77.00	23.6	-102.4	105.1	101.2	3.93	26.755	
1,200.0	1,200.0	1,200.5	1,200.4	2.6	1.8	-77.10	23.6	-103.1	105.7	101.4	4.35	24.305	
1,300.0	1,300.0	1,301.1	1,301.1	2.8	2.0	-77.17	23.6	-103.4	106.0	101.3	4.77	22.230	
1,400.0	1,400.0	1,401.6	1,401.6	3.0	2.2	-77.11	23.6	-103.0	105.6	100.4	5.19	20.346	
1,500.0	1,500.0	1,501.8	1,501.8	3.3	2.4	-76.96	23.7	-102.2	105.0	99.3	5.62	18.678	
1,526.7	1,526.7	1,528.5	1,528.5	3.3	2.4	149.93	23.7	-102.0	104.9	99.1	5.73	18.314 ES	
1,600.0	1,600.0	1,601.9	1,601.9	3.5	2.6	150.54	23.9	-101.3	105.6	99.6	6.02	17.546	
1,700.0	1,699.8	1,701.0	1,701.0	3.6	2.8	152.07	24.2	-100.8	109.7	103.3	6.40	17.138	
1,800.0	1,799.5	1,800.0	1,799.9	3.8	3.0	154.12	24.6	-100.9	117.7	111.0	6.79	17.350	
1,900.0	1,898.7	1,899.2	1,899.2	4.1	3.2	156.44	24.8	-101.2	129.2	122.1	7.17	18.023	
1,915.0	1,913.5	1,914.1	1,914.1	4.1	3.2	156.80	24.8	-101.3	131.2	124.0	7.23	18.158	
2,000.0	1,997.7	1,998.3	1,998.3	4.3	3.4	158.71	24.9	-101.6	142.9	135.3	7.57	18.874	
2,100.0	2,096.6	2,097.4	2,097.3	4.5	3.6	160.63	24.9	-101.8	156.7	148.7	7.98	19.638	
2,200.0	2,195.6	2,196.1	2,196.1	4.8	3.8	162.28	25.2	-101.9	170.6	162.2	8.39	20.325	
2,300.0	2,294.5	2,294.4	2,294.4	5.1	4.0	163.78	25.8	-102.1	184.8	176.0	8.81	20.984	
2,400.0	2,393.5	2,393.5	2,393.4	5.4	4.2	165.14	26.7	-102.3	199.4	190.2	9.23	21.606	
2,500.0	2,492.4	2,493.1	2,493.1	5.7	4.4	166.30	27.3	-102.3	213.7	204.1	9.65	22.142	
2,600.0	2,591.4	2,591.8	2,591.8	6.0	4.6	167.27	27.8	-102.2	227.9	217.9	10.08	22.621	
2,700.0	2,690.3	2,690.2	2,690.2	6.3	4.8	168.09	28.2	-102.4	242.4	231.9	10.50	23.083	
2,800.0	2,789.3	2,789.3	2,789.3	6.6	5.0	168.78	28.6	-102.7	257.0	246.1	10.93	23.509	
2,900.0	2,888.2	2,889.8	2,889.7	6.9	5.3	169.30	28.4	-103.1	271.4	260.0	11.37	23.873	
3,000.0	2,987.2	2,988.3	2,988.2	7.2	5.5	169.40	26.3	-103.9	285.2	273.4	11.80	24.162	
3,100.0	3,086.1	3,083.2	3,083.0	7.6	5.7	169.13	23.4	-106.6	300.1	287.9	12.24	24.524	
3,200.0	3,185.1	3,181.8	3,181.4	7.9	5.9	168.63	19.6	-110.7	315.7	303.0	12.69	24.883	
3,300.0	3,284.0	3,281.5	3,280.8	8.2	6.1	167.80	13.9	-115.8	331.2	318.0	13.15	25.188	
3,400.0	3,383.0	3,385.1	3,383.7	8.6	6.3	166.31	3.9	-122.7	346.2	332.5	13.64	25.386	
3,500.0	3,481.9	3,487.6	3,485.2	8.9	6.6	164.57	-8.9	-129.0	359.5	345.4	14.14	25.424	
3,600.0	3,580.9	3,584.6	3,581.1	9.2	6.8	162.84	-22.2	-135.7	373.2	358.6	14.65	25.475	
3,700.0	3,679.9	3,684.5	3,679.9	9.6	7.1	161.21	-35.8	-142.3	387.2	372.0	15.17	25.525	
3,800.0	3,778.8	3,787.5	3,781.8	9.9	7.3	159.74	-49.4	-148.3	400.7	385.0	15.70	25.526	
3,900.0	3,877.8	3,888.1	3,881.3	10.3	7.6	158.40	-63.2	-153.3	413.6	397.3	16.23	25.475	
4,000.0	3,976.7	3,986.9	3,979.0	10.6	7.8	157.17	-76.7	-158.0	426.5	409.7	16.77	25.429	
4,100.0	4,075.7	4,084.4	4,075.6	10.9	8.1	156.07	-89.7	-162.6	439.6	422.3	17.31	25.399	
4,200.0	4,174.6	4,175.9	4,166.0	11.3	8.3	155.01	-102.2	-168.1	454.0	436.1	17.85	25.437	
4,300.0	4,273.6	4,272.5	4,261.5	11.6	8.6	153.94	-115.3	-174.9	469.6	451.2	18.41	25.512	
4,400.0	4,372.5	4,372.7	4,360.8	12.0	8.9	153.04	-127.6	-181.6	485.3	466.3	18.98	25.576	
4,500.0	4,471.5	4,475.6	4,462.6	12.3	9.2	152.13	-141.0	-187.9	500.5	480.9	19.56	25.591	
4,600.0	4,570.4	4,579.6	4,565.6	12.7	9.5	151.32	-154.2	-193.1	514.7	494.6	20.15	25.550	
4,616.2	4,586.5	4,595.2	4,581.0	12.7	9.5	151.21	-156.2	-193.8	517.0	496.7	20.24	25.546	
4,700.0	4,669.5	4,675.8	4,660.9	13.0	9.7	150.67	-166.4	-197.7	527.8	507.1	20.72	25.477	
4,800.0	4,769.1	4,774.0	4,758.2	13.2	10.0	149.86	-178.8	-202.8	538.3	517.1	21.25	25.331	

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 Park 44-41-4HNB
Project:	SEC.4-T4N-R63W	TVD Reference:	WELL @ 4639.0ft (RKB - 13')
Reference Site:	Park T-4 Pad Sec.4-T4N-R63W	MD Reference:	WELL @ 4639.0ft (RKB - 13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Park 44-41-4HNB	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 (12-3-12)	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 ft
Survey Program: 760-MWD												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	4,868.9	4,875.9	4,859.3	13.4	10.3	148.96	-190.5	-207.7	546.0	524.2	21.76	25.087	
5,000.0	4,968.8	4,980.0	4,962.9	13.6	10.6	148.19	-199.3	-211.2	549.9	527.7	22.23	24.736	
5,031.2	5,000.0	5,012.0	4,994.9	13.6	10.6	-78.85	-201.5	-212.0	550.4	528.0	22.48	24.488	
5,100.0	5,068.8	5,082.8	5,065.5	13.8	10.8	-79.32	-205.8	-213.5	551.1	528.3	22.79	24.185	
5,200.0	5,168.8	5,186.1	5,168.7	13.9	11.0	-79.73	-209.7	-214.8	551.6	528.4	23.21	23.769	
5,300.0	5,268.8	5,285.4	5,268.0	14.1	11.2	-79.92	-211.4	-215.3	551.9	528.3	23.60	23.386	
5,400.0	5,368.8	5,384.6	5,367.2	14.2	11.4	-80.05	-212.6	-215.9	552.3	528.3	23.98	23.026	
5,500.0	5,468.8	5,483.9	5,466.5	14.4	11.6	-80.15	-213.4	-216.6	552.8	528.4	24.37	22.684	
5,600.0	5,568.8	5,583.4	5,566.0	14.6	11.8	-80.23	-214.1	-217.4	553.4	528.7	24.75	22.357	
5,700.0	5,668.8	5,683.5	5,666.1	14.7	12.0	-80.29	-214.6	-218.2	554.1	529.0	25.14	22.040	
5,800.0	5,768.8	5,783.9	5,766.4	14.9	12.2	-80.33	-214.8	-218.9	554.8	529.2	25.53	21.732	
5,902.3	5,871.1	5,871.9	5,854.4	15.1	12.4	-80.19	-213.3	-219.9	556.3	530.4	25.88	21.496	
5,950.0	5,918.7	5,911.0	5,893.3	15.2	12.4	-82.70	-209.1	-220.7	557.9	532.0	25.90	21.544	
6,000.0	5,968.2	5,956.5	5,938.0	15.2	12.5	-82.33	-200.7	-221.6	559.6	533.7	25.97	21.547	
6,050.0	6,016.8	6,004.9	5,984.8	15.2	12.5	-82.12	-188.6	-222.2	561.0	535.0	26.02	21.561	
6,100.0	6,064.1	6,040.0	6,018.4	15.2	12.5	-82.09	-178.1	-222.6	562.2	536.2	26.03	21.596	
6,150.0	6,109.6	6,076.5	6,052.6	15.2	12.6	-82.17	-165.4	-223.7	564.1	538.1	26.04	21.668	
6,200.0	6,152.9	6,114.5	6,087.3	15.2	12.6	-82.36	-150.2	-225.6	566.7	540.7	26.03	21.773	
6,250.0	6,193.6	6,158.5	6,126.4	15.2	12.6	-82.75	-130.1	-227.6	569.3	543.3	26.03	21.875	
6,300.0	6,231.3	6,202.1	6,163.3	15.1	12.6	-83.18	-107.0	-229.6	572.0	545.9	26.03	21.970	
6,350.0	6,265.7	6,247.8	6,199.8	15.1	12.6	-83.71	-79.6	-231.7	574.8	548.7	26.07	22.050	
6,400.0	6,296.5	6,301.1	6,239.2	15.1	12.6	-84.39	-43.7	-233.0	576.9	550.7	26.15	22.061	
6,450.0	6,323.3	6,340.1	6,265.4	15.0	12.6	-84.83	-14.9	-233.7	578.9	552.6	26.27	22.036	
6,500.0	6,346.0	6,374.1	6,286.4	15.0	12.6	-85.19	11.8	-234.8	581.8	555.3	26.44	22.005	
6,550.0	6,364.3	6,415.0	6,309.5	14.9	12.7	-85.72	45.5	-236.9	585.6	558.9	26.70	21.935	
6,600.0	6,378.1	6,446.0	6,325.2	14.9	12.8	-86.01	72.1	-239.0	590.2	563.2	26.99	21.865	
6,650.0	6,387.2	6,477.0	6,339.5	15.0	12.9	-86.26	99.5	-241.9	596.3	568.9	27.36	21.793	
6,700.0	6,391.6	6,509.0	6,352.4	15.2	13.0	-86.49	128.5	-245.7	603.9	576.1	27.80	21.719	
6,720.5	6,392.0	6,517.3	6,355.4	15.4	13.1	-86.39	136.1	-246.9	607.3	579.3	27.98	21.708	
6,800.0	6,392.0	6,580.1	6,374.4	16.0	13.5	-88.25	195.2	-256.4	622.7	593.7	28.99	21.482	
6,821.6	6,392.0	6,597.2	6,378.4	16.2	13.6	-88.64	211.6	-259.1	627.2	597.9	29.29	21.413	
6,828.7	6,392.0	6,603.1	6,379.7	16.3	13.6	-88.76	217.3	-260.1	628.7	599.3	29.38	21.397	
6,900.0	6,392.0	6,688.5	6,391.4	16.9	14.3	-89.85	300.7	-273.4	643.5	612.9	30.61	21.023	
7,000.0	6,392.0	6,798.0	6,392.8	18.0	15.4	-89.98	409.3	-287.4	661.5	628.7	32.72	20.213	
7,100.0	6,392.0	6,930.1	6,390.6	19.3	16.8	-89.80	540.6	-301.6	677.6	642.3	35.24	19.225	
7,200.0	6,392.0	7,040.4	6,393.2	20.6	18.0	-90.02	650.6	-308.4	688.9	651.2	37.76	18.243	
7,300.0	6,392.0	7,146.7	6,394.0	22.0	19.5	-90.08	756.7	-314.3	699.7	659.0	40.62	17.226	
7,400.0	6,392.0	7,255.4	6,395.6	23.5	20.9	-90.21	865.3	-318.7	708.9	665.5	43.45	16.315	
7,500.0	6,392.0	7,349.5	6,398.4	25.0	22.2	-90.43	959.3	-322.6	718.2	671.9	46.36	15.491	
7,600.0	6,392.0	7,449.0	6,398.6	26.6	23.7	-90.44	1,058.8	-326.9	727.8	678.4	49.46	14.717	
7,700.0	6,392.0	7,549.1	6,398.5	28.2	25.2	-90.43	1,158.7	-331.0	737.1	684.5	52.59	14.016	
7,800.0	6,392.0	7,636.4	6,397.8	29.9	26.6	-90.37	1,245.9	-335.5	747.5	691.9	55.59	13.447	
7,900.0	6,392.0	7,741.3	6,396.7	31.5	28.3	-90.28	1,350.6	-341.4	758.3	699.3	58.97	12.859	
8,000.0	6,392.0	7,856.6	6,395.8	33.2	30.1	-90.21	1,465.8	-346.0	767.4	704.9	62.46	12.285	
8,100.0	6,392.0	7,959.0	6,396.3	35.0	31.7	-90.25	1,568.2	-349.4	776.0	710.1	65.87	11.779	
8,200.0	6,392.0	8,053.0	6,396.1	36.7	33.2	-90.23	1,662.2	-352.0	783.9	714.8	69.14	11.338	
8,300.0	6,392.0	8,133.7	6,398.0	38.5	34.6	-90.36	1,742.8	-356.0	794.1	721.8	72.22	10.995	
8,400.0	6,392.0	8,223.4	6,398.8	40.2	36.1	-90.42	1,832.3	-362.2	806.1	730.5	75.55	10.670	
8,500.0	6,392.0	8,328.7	6,398.6	42.0	37.9	-90.40	1,937.3	-369.2	817.9	738.8	79.11	10.339	
8,600.0	6,392.0	8,422.7	6,398.8	43.8	39.5	-90.40	2,031.0	-375.4	829.8	747.3	82.50	10.058	
8,700.0	6,392.0	8,549.4	6,397.6	45.6	41.7	-90.31	2,157.5	-382.6	840.7	754.3	86.45	9.725	
8,800.0	6,392.0	8,643.0	6,397.4	47.4	43.2	-90.30	2,251.1	-385.8	849.3	759.5	89.84	9.453	

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 Park 44-41-4HNB
Project:	SEC.4-T4N-R63W	TVD Reference:	WELL @ 4639.0ft (RKB - 13')
Reference Site:	Park T-4 Pad Sec.4-T4N-R63W	MD Reference:	WELL @ 4639.0ft (RKB - 13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Park 44-41-4HNB	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 (12-3-12)	Offset TVD Reference:	Offset Datum

Offset Design PARK T-P-4HZ PAD SEC.4- T4N-R63W - PARK T-P-4HZ (Exist.) - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 ft
Survey Program: 760-MWD												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	
8,900.0	6,392.0	8,711.7	6,397.8	49.2	44.4	-90.32	2,319.6	-390.6	861.3	768.5	92.84	9.278	
9,000.0	6,392.0	8,803.2	6,399.1	51.1	46.0	-90.41	2,410.8	-398.2	874.8	778.6	96.25	9.089	
9,100.0	6,392.0	8,917.7	6,398.6	52.9	48.1	-90.37	2,524.9	-408.2	888.8	788.7	100.12	8.878	
9,200.0	6,392.0	9,040.7	6,398.9	54.7	50.2	-90.38	2,647.7	-414.6	899.0	794.9	104.10	8.636	
9,300.0	6,392.0	9,130.6	6,398.8	56.6	51.8	-90.37	2,737.4	-419.3	909.4	801.9	107.51	8.459	
9,400.0	6,392.0	9,221.6	6,397.4	58.4	53.4	-90.27	2,828.3	-424.7	920.6	809.6	110.99	8.294	
9,500.0	6,392.0	9,329.0	6,395.8	60.3	55.3	-90.17	2,935.5	-430.9	931.6	816.9	114.69	8.123	
9,600.0	6,392.0	9,423.0	6,395.3	62.1	57.0	-90.14	3,029.3	-436.5	942.7	824.5	118.19	7.976	
9,700.0	6,392.0	9,521.9	6,396.6	64.0	58.7	-90.22	3,128.0	-442.8	954.2	832.5	121.75	7.837	
9,800.0	6,392.0	9,610.0	6,398.4	65.8	60.3	-90.32	3,215.9	-448.9	966.4	841.2	125.20	7.719	
9,900.0	6,392.0	9,704.0	6,397.4	67.7	62.0	-90.26	3,309.6	-456.0	979.1	850.4	128.77	7.604	
10,000.0	6,392.0	9,815.0	6,395.3	69.5	64.0	-90.13	3,420.2	-464.8	992.3	859.7	132.58	7.485 SF	

Reference Depths are relative to WELL @ 4639.0ft (RKB - 13')	Coordinates are relative to: Park 44-41-4HNB
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: 0.69°



Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well Park 44-41-4HNB
Project:	SEC.4-T4N-R63W	TVD Reference:	WELL @ 4639.0ft (RKB - 13')
Reference Site:	Park T-4 Pad Sec.4-T4N-R63W	MD Reference:	WELL @ 4639.0ft (RKB - 13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Park 44-41-4HNB	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 (12-3-12)	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 4639.0ft (RKB - 13')
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000 °

Coordinates are relative to: Park 44-41-4HNB
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.69°

