

BONANZA CREEK ENERGY OPERATING

Well Name: **Pronghorn P-T-17HNB**

Surface Location: Pronghorn P-17 Pad Sec.17-T5N-R61W
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone

Ground Elevation: 4619.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1393719.82	3353931.38	40.407200	-104.229020	

RKB - 13' WELL @ 4632.0ft (RKB - 13')

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
BHL 470'FSL & 1336'FEL	6102.0	-4393.6	153.2	Point
T1 470'FNL & 1338'FEL	6102.0	-7.3	153.2	Point



Azimuths to True North
Magnetic North: 8.39°

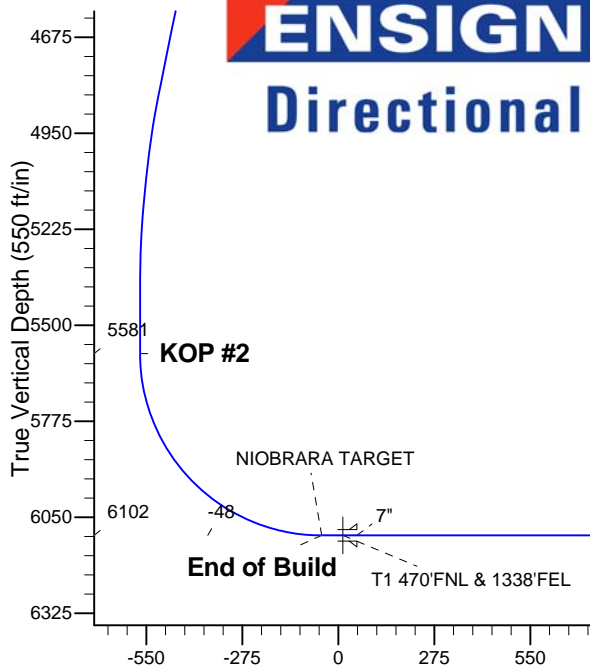
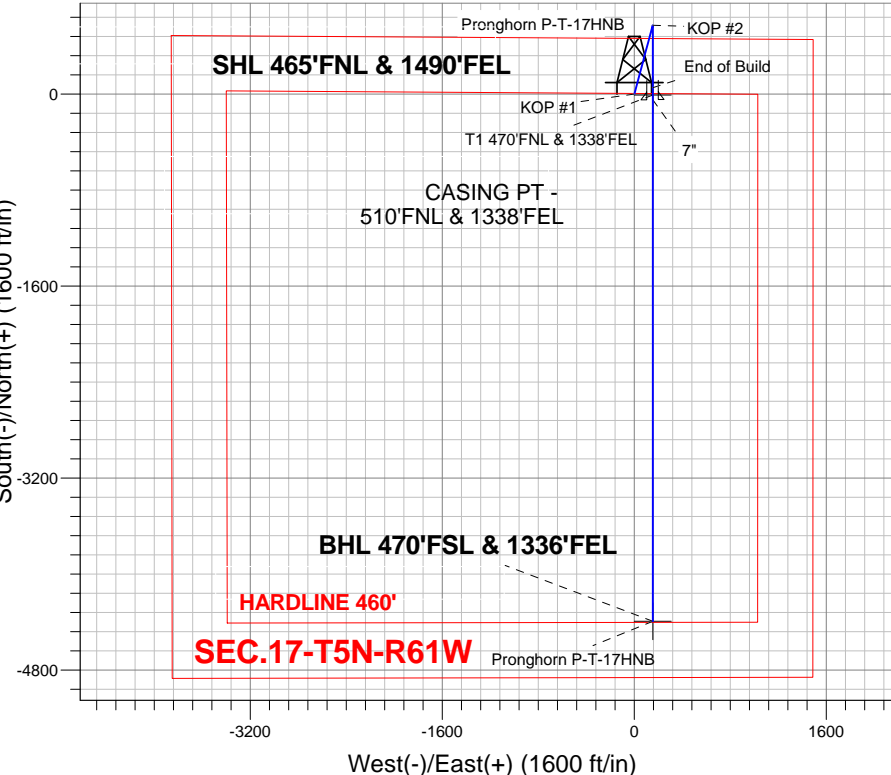
Magnetic Field
Strength: 53049.4nT
Dip Angle: 67.10°
Date: 10/25/2012
Model: IGRF2010

Pronghorn P-17 Pad Sec.17-T5N-R61W
Pronghorn P-T-17HNB
Plan #2 (10-25-12)
12:55, October 26 2012

ANNOTATIONS

TVD	MD	Annotation
2000.0	2000.0	KOP #1
5581.1	5639.1	KOP #2
6102.0	6457.3	End of Build

South(-)/North(+) (1600 ft/in)



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	2000.0	0.00	0.00	2000.0	0.0	0.0	0.00	0.00	0.0	
3	2599.2	11.98	14.93	2594.8	60.3	16.1	2.00	14.93	-59.7	
4	4858.8	11.98	14.93	4805.2	513.7	136.9	0.00	0.00	-508.6	
5	5458.0	0.00	0.00	5400.0	574.0	153.0	2.00	180.00	-568.3	
6	5639.1	0.00	0.00	5581.1	574.0	153.0	0.00	0.00	-568.3	
7	6457.3	90.00	179.98	6102.0	53.1	153.1	11.00	179.98	-47.8	
8	6557.7	90.00	179.98	6102.0	-47.3	153.2	0.00	0.00	52.6	
9	6558.2	90.00	180.00	6102.0	-47.8	153.2	3.00	90.00	53.1	
10	10904.0	90.00	180.00	6102.0	-4393.6	153.2	0.00	0.00	4396.3	BHL 470'FSL & 1336'FEL

Vertical Section at 178.00° (550 ft/in)



BONANZA CREEK ENERGY OPERATING

SEC.17-T5N-R61W

Pronghorn P-17 Pad Sec.17-T5N-R61W

Pronghorn P-T-17HNB

Wellbore #1

Plan: Plan #2 (10-25-12)

Standard Planning Report

26 October, 2012

Database:	Landmark	Local Co-ordinate Reference:	Well Pronghorn P-T-17HNB
Company:	BONANZA CREEK ENERGY OPERATING	TVD Reference:	WELL @ 4632.0ft (RKB - 13')
Project:	SEC.17-T5N-R61W	MD Reference:	WELL @ 4632.0ft (RKB - 13')
Site:	Pronghorn P-17 Pad Sec.17-T5N-R61W	North Reference:	True
Well:	Pronghorn P-T-17HNB	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (10-25-12)		

Project	SEC.17-T5N-R61W		
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						Pronghorn P-17 Pad Sec.17-T5N-R61W											
Site Position:						Northing:			1,393,778.11 ft			Latitude:			40.407360		
From:			Lat/Long			Easting:			3,353,930.54 ft			Longitude:			-104.229020		
Position Uncertainty:			0.0 ft			Slot Radius:			"			Grid Convergence:			0.82 °		

Well	Pronghorn P-T-17HNB					
Well Position	+N/-S	-58.3 ft	Northing:	1,393,719.82 ft	Latitude:	40.407200
	+E/-W	0.0 ft	Easting:	3,353,931.38 ft	Longitude:	-104.229020
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,619.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	10/25/2012	8.39	67.10	53,049

Design	Plan #2 (10-25-12)			
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	178.00

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	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,599.2	11.98	14.93	2,594.8	60.3	16.1	2.00	2.00	0.00	14.93	
4,858.8	11.98	14.93	4,805.2	513.7	136.9	0.00	0.00	0.00	0.00	
5,458.0	0.00	0.00	5,400.0	574.0	153.0	2.00	-2.00	0.00	180.00	
5,639.1	0.00	0.00	5,581.1	574.0	153.0	0.00	0.00	0.00	0.00	
6,457.3	90.00	179.98	6,102.0	53.1	153.1	11.00	11.00	0.00	179.98	
6,557.7	90.00	179.98	6,102.0	-47.3	153.2	0.00	0.00	0.00	0.00	
6,558.2	90.00	180.00	6,102.0	-47.8	153.2	3.00	0.00	3.00	90.00	
10,904.0	90.00	180.00	6,102.0	-4,393.6	153.2	0.00	0.00	0.00	0.00	BHL 470'FSL & 133

Database:	Landmark	Local Co-ordinate Reference:	Well Pronghorn P-T-17HNB
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Site:	Pronghorn P-17 Pad Sec.17-T5N-R61W	North Reference:	True
Well:	Pronghorn P-T-17HNB	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (10-25-12)		

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
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP #1									
2,100.0	2.00	14.93	2,100.0	1.7	0.4	-1.7	2.00	2.00	0.00
2,200.0	4.00	14.93	2,199.8	6.7	1.8	-6.7	2.00	2.00	0.00
2,300.0	6.00	14.93	2,299.5	15.2	4.0	-15.0	2.00	2.00	0.00
2,400.0	8.00	14.93	2,398.7	26.9	7.2	-26.7	2.00	2.00	0.00
2,500.0	10.00	14.93	2,497.5	42.1	11.2	-41.6	2.00	2.00	0.00
2,599.2	11.98	14.93	2,594.8	60.3	16.1	-59.7	2.00	2.00	0.00
2,600.0	11.98	14.93	2,595.6	60.5	16.1	-59.9	0.00	0.00	0.00
2,700.0	11.98	14.93	2,693.4	80.6	21.5	-79.8	0.00	0.00	0.00
2,800.0	11.98	14.93	2,791.3	100.6	26.8	-99.6	0.00	0.00	0.00
2,900.0	11.98	14.93	2,889.1	120.7	32.2	-119.5	0.00	0.00	0.00
3,000.0	11.98	14.93	2,986.9	140.7	37.5	-139.4	0.00	0.00	0.00
3,100.0	11.98	14.93	3,084.7	160.8	42.9	-159.2	0.00	0.00	0.00
3,200.0	11.98	14.93	3,182.5	180.9	48.2	-179.1	0.00	0.00	0.00
3,300.0	11.98	14.93	3,280.4	200.9	53.6	-198.9	0.00	0.00	0.00
3,400.0	11.98	14.93	3,378.2	221.0	58.9	-218.8	0.00	0.00	0.00
3,500.0	11.98	14.93	3,476.0	241.1	64.3	-238.7	0.00	0.00	0.00
3,600.0	11.98	14.93	3,573.8	261.1	69.6	-258.5	0.00	0.00	0.00
3,700.0	11.98	14.93	3,671.6	281.2	75.0	-278.4	0.00	0.00	0.00
3,800.0	11.98	14.93	3,769.5	301.2	80.3	-298.3	0.00	0.00	0.00
3,900.0	11.98	14.93	3,867.3	321.3	85.6	-318.1	0.00	0.00	0.00
4,000.0	11.98	14.93	3,965.1	341.4	91.0	-338.0	0.00	0.00	0.00
4,100.0	11.98	14.93	4,062.9	361.4	96.3	-357.9	0.00	0.00	0.00
4,200.0	11.98	14.93	4,160.8	381.5	101.7	-377.7	0.00	0.00	0.00
4,300.0	11.98	14.93	4,258.6	401.6	107.0	-397.6	0.00	0.00	0.00
4,400.0	11.98	14.93	4,356.4	421.6	112.4	-417.5	0.00	0.00	0.00
4,500.0	11.98	14.93	4,454.2	441.7	117.7	-437.3	0.00	0.00	0.00
4,600.0	11.98	14.93	4,552.0	461.8	123.1	-457.2	0.00	0.00	0.00
4,700.0	11.98	14.93	4,649.9	481.8	128.4	-477.0	0.00	0.00	0.00
4,800.0	11.98	14.93	4,747.7	501.9	133.8	-496.9	0.00	0.00	0.00
4,858.8	11.98	14.93	4,805.2	513.7	136.9	-508.6	0.00	0.00	0.00
4,900.0	11.16	14.93	4,845.6	521.7	139.0	-516.5	2.00	-2.00	0.00
5,000.0	9.16	14.93	4,944.0	538.7	143.6	-533.4	2.00	-2.00	0.00

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Site:	Pronghorn P-17 Pad Sec.17-T5N-R61W	North Reference:	True
Well:	Pronghorn P-T-17HNB	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (10-25-12)		

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)
5,100.0	7.16	14.93	5,043.0	552.4	147.2	-547.0	2.00	-2.00	0.00
5,200.0	5.16	14.93	5,142.4	562.8	150.0	-557.2	2.00	-2.00	0.00
5,300.0	3.16	14.93	5,242.1	569.8	151.9	-564.2	2.00	-2.00	0.00
5,400.0	1.16	14.93	5,342.0	573.4	152.8	-567.8	2.00	-2.00	0.00
5,458.0	0.00	0.00	5,400.0	574.0	153.0	-568.3	2.00	-2.00	0.00
5,500.0	0.00	0.00	5,442.0	574.0	153.0	-568.3	0.00	0.00	0.00
5,600.0	0.00	0.00	5,542.0	574.0	153.0	-568.3	0.00	0.00	0.00
5,639.1	0.00	0.00	5,581.1	574.0	153.0	-568.3	0.00	0.00	0.00
KOP #2									
5,700.0	6.70	179.98	5,641.9	570.4	153.0	-564.8	11.00	11.00	0.00
5,800.0	17.70	179.98	5,739.5	549.3	153.0	-543.7	11.00	11.00	0.00
5,900.0	28.70	179.98	5,831.3	510.0	153.0	-504.4	11.00	11.00	0.00
6,000.0	39.70	179.98	5,913.8	453.9	153.0	-448.3	11.00	11.00	0.00
6,100.0	50.70	179.98	5,984.2	383.0	153.1	-377.5	11.00	11.00	0.00
6,200.0	61.70	179.98	6,039.7	300.1	153.1	-294.6	11.00	11.00	0.00
6,300.0	72.70	179.98	6,078.4	208.0	153.1	-202.6	11.00	11.00	0.00
6,400.0	83.70	179.98	6,098.9	110.3	153.1	-104.9	11.00	11.00	0.00
6,457.3	90.00	179.98	6,102.0	53.1	153.1	-47.8	11.00	11.00	0.00
End of Build - NIOBRARA TARGET									
6,500.0	90.00	179.98	6,102.0	10.4	153.2	-5.1	0.00	0.00	0.00
6,517.7	90.00	179.98	6,102.0	-7.3	153.2	12.6	0.00	0.00	0.00
T1 470°FNL & 1338°FEL									
6,557.7	90.00	179.98	6,102.0	-47.3	153.2	52.6	0.00	0.00	0.00
7"									
6,558.2	90.00	180.00	6,102.0	-47.8	153.2	53.1	2.98	0.00	2.98
6,600.0	90.00	180.00	6,102.0	-89.6	153.2	94.9	0.00	0.00	0.00
6,700.0	90.00	180.00	6,102.0	-189.6	153.2	194.8	0.00	0.00	0.00
6,800.0	90.00	180.00	6,102.0	-289.6	153.2	294.8	0.00	0.00	0.00
6,900.0	90.00	180.00	6,102.0	-389.6	153.2	394.7	0.00	0.00	0.00
7,000.0	90.00	180.00	6,102.0	-489.6	153.2	494.6	0.00	0.00	0.00
7,100.0	90.00	180.00	6,102.0	-589.6	153.2	594.6	0.00	0.00	0.00
7,200.0	90.00	180.00	6,102.0	-689.6	153.2	694.5	0.00	0.00	0.00
7,300.0	90.00	180.00	6,102.0	-789.6	153.2	794.5	0.00	0.00	0.00
7,400.0	90.00	180.00	6,102.0	-889.6	153.2	894.4	0.00	0.00	0.00
7,500.0	90.00	180.00	6,102.0	-989.6	153.2	994.3	0.00	0.00	0.00
7,600.0	90.00	180.00	6,102.0	-1,089.6	153.2	1,094.3	0.00	0.00	0.00
7,700.0	90.00	180.00	6,102.0	-1,189.6	153.2	1,194.2	0.00	0.00	0.00
7,800.0	90.00	180.00	6,102.0	-1,289.6	153.2	1,294.2	0.00	0.00	0.00
7,900.0	90.00	180.00	6,102.0	-1,389.6	153.2	1,394.1	0.00	0.00	0.00
8,000.0	90.00	180.00	6,102.0	-1,489.6	153.2	1,494.0	0.00	0.00	0.00
8,100.0	90.00	180.00	6,102.0	-1,589.6	153.2	1,594.0	0.00	0.00	0.00
8,200.0	90.00	180.00	6,102.0	-1,689.6	153.2	1,693.9	0.00	0.00	0.00
8,300.0	90.00	180.00	6,102.0	-1,789.6	153.2	1,793.8	0.00	0.00	0.00
8,400.0	90.00	180.00	6,102.0	-1,889.6	153.2	1,893.8	0.00	0.00	0.00
8,500.0	90.00	180.00	6,102.0	-1,989.6	153.2	1,993.7	0.00	0.00	0.00
8,600.0	90.00	180.00	6,102.0	-2,089.6	153.2	2,093.7	0.00	0.00	0.00
8,700.0	90.00	180.00	6,102.0	-2,189.6	153.2	2,193.6	0.00	0.00	0.00
8,800.0	90.00	180.00	6,102.0	-2,289.6	153.2	2,293.5	0.00	0.00	0.00
8,900.0	90.00	180.00	6,102.0	-2,389.6	153.2	2,393.5	0.00	0.00	0.00
9,000.0	90.00	180.00	6,102.0	-2,489.6	153.2	2,493.4	0.00	0.00	0.00
9,100.0	90.00	180.00	6,102.0	-2,589.6	153.2	2,593.4	0.00	0.00	0.00
9,200.0	90.00	180.00	6,102.0	-2,689.6	153.2	2,693.3	0.00	0.00	0.00
9,300.0	90.00	180.00	6,102.0	-2,789.6	153.2	2,793.2	0.00	0.00	0.00

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
6,457.3	6,102.0	NIORARA TARGET		0.00	

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Site:	Pronghorn P-17 Pad Sec.17-T5N-R61W	North Reference:	True
Well:	Pronghorn P-T-17HNB	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (10-25-12)		

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
2,000.0	2,000.0	0.0	0.0	KOP #1
5,639.1	5,581.1	574.0	153.0	KOP #2
6,457.3	6,102.0	53.1	153.1	End of Build



BONANZA CREEK ENERGY OPERATING

SEC.17-T5N-R61W

Pronghorn P-17 Pad Sec.17-T5N-R61W

Pronghorn P-T-17HNB

Wellbore #1

Plan #2 (10-25-12)

Anticollision Report

26 October, 2012

Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well Pronghorn P-T-17HNB
Project:	SEC.17-T5N-R61W	TVD Reference:	WELL @ 4632.0ft (RKB - 13')
Reference Site:	Pronghorn P-17 Pad Sec.17-T5N-R61W	MD Reference:	WELL @ 4632.0ft (RKB - 13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Pronghorn P-T-17HNB	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 #2 (10-25-12)	Offset TVD Reference:	Offset Datum

Reference	Plan #2 (10-25-12)		
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 10/26/2012			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	10,904.0	Plan #2 (10-25-12) (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						
Pronghorn 31-17						
Pronghorn 31-17 (existing Vert) - Wellbore #1 - Wellbore	0.0	49.1	556.2	556.2	10,000.000	CC
Pronghorn 31-17 (existing Vert) - Wellbore #1 - Wellbore	2,100.0	2,157.1	556.6	547.5	61.566	ES
Pronghorn 31-17 (existing Vert) - Wellbore #1 - Wellbore	6,700.0	6,157.4	657.1	628.7	23.149	SF
PRONGHORN 31-34-17HZ PAD S17-5N-61W						
PRONGHORN 31-34-17HZ (Exist.) - Wellbore #1 - Wellb	2,338.5	2,338.2	691.2	681.6	72.300	CC
PRONGHORN 31-34-17HZ (Exist.) - Wellbore #1 - Wellb	2,400.0	2,397.8	691.3	681.5	70.373	ES
PRONGHORN 31-34-17HZ (Exist.) - Wellbore #1 - Wellb	10,904.0	10,438.0	883.7	712.8	5.170	SF
Pronghorn P-17 Pad Sec.17-T5N-R61W						
Pronghorn 41-44-17HZ - Wellbore #1 - Plan #3 (SEPT 21	366.0	368.0	18.2	16.8	12.783	CC
Pronghorn 41-44-17HZ - Wellbore #1 - Plan #3 (SEPT 21	400.0	402.0	18.2	16.6	11.546	ES
Pronghorn 41-44-17HZ - Wellbore #1 - Plan #3 (SEPT 21	10,904.0	10,979.2	855.1	678.9	4.854	SF
Pronghorn 42-17 (Exist.) - Wellbore #1 - Wellbore #1	8,029.6	6,100.0	679.6	522.8	4.335	CC, ES
Pronghorn 42-17 (Exist.) - Wellbore #1 - Wellbore #1	8,100.0	6,100.0	683.2	525.2	4.324	SF
Pronghorn K-O-17HZ - Wellbore #1 - Plan #1 (SEPT 17,	166.0	168.0	40.1	39.5	76.203	CC
Pronghorn K-O-17HZ - Wellbore #1 - Plan #1 (SEPT 17,	200.0	202.0	40.1	39.4	59.048	ES
Pronghorn K-O-17HZ - Wellbore #1 - Plan #1 (SEPT 17,	600.0	597.0	58.1	55.6	23.129	SF
Pronghorn U-Y-17HZ - Wellbore #1 - Plan #1 (SEPT 17,	166.3	167.3	58.3	57.8	110.989	CC
Pronghorn U-Y-17HZ - Wellbore #1 - Plan #1 (SEPT 17,	200.0	201.0	58.3	57.6	86.168	ES
Pronghorn U-Y-17HZ - Wellbore #1 - Plan #1 (SEPT 17,	700.0	692.5	84.0	80.9	27.469	SF

Offset Design Pronghorn 31-17 - Pronghorn 31-17 (existing Vert) - Wellbore #1 - Wellbore #1													Offset Site Error:	0.0 ft
Survey Program: 100-MWD													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)			
0.0	0.0	49.1	49.1	0.0	0.1	-97.53	-72.9	-551.4	556.2	556.2	0.06	N/A	CC	
100.0	100.0	149.0	149.0	0.1	0.2	-97.58	-73.4	-551.6	556.5	556.2	0.33	1,696.673		
200.0	200.0	249.7	249.7	0.3	0.4	-97.62	-73.8	-551.6	556.6	555.8	0.76	731.271		
300.0	300.0	349.5	349.5	0.6	0.6	-97.64	-74.0	-551.7	556.6	555.4	1.19	467.229		
400.0	400.0	449.0	449.0	0.8	0.8	-97.64	-74.0	-551.8	556.8	555.1	1.63	342.625		
500.0	500.0	548.9	548.9	1.0	1.1	-97.63	-73.9	-552.0	557.0	554.9	2.06	270.201		
600.0	600.0	649.2	649.2	1.2	1.3	-97.60	-73.7	-552.2	557.1	554.6	2.50	222.941		
700.0	700.0	748.5	748.5	1.5	1.5	-97.57	-73.4	-552.4	557.3	554.4	2.93	190.051		

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

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Site Error:	0.0ft	North Reference:	True
Reference Well:	Pronghorn P-T-17HNB	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 #2 (10-25-12)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 100-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		
800.0	800.0	848.0	848.0	1.7	1.7	-97.55	-73.2	-552.8	557.7	554.3	3.36	165.764		
900.0	900.0	948.2	948.2	1.9	1.9	-97.52	-73.0	-553.2	558.0	554.2	3.80	146.801		
1,000.0	1,000.0	1,048.2	1,048.1	2.1	2.1	-97.49	-72.7	-553.6	558.3	554.1	4.24	131.774		
1,100.0	1,100.0	1,148.3	1,148.3	2.4	2.3	-97.45	-72.5	-553.9	558.6	554.0	4.67	119.608		
1,200.0	1,200.0	1,248.5	1,248.5	2.6	2.5	-97.41	-72.0	-554.3	558.9	553.8	5.11	109.482		
1,300.0	1,300.0	1,348.6	1,348.6	2.8	2.7	-97.37	-71.7	-554.6	559.2	553.6	5.54	100.982		
1,400.0	1,400.0	1,449.1	1,449.1	3.0	2.9	-97.37	-71.8	-554.8	559.4	553.4	5.97	93.727		
1,500.0	1,500.0	1,550.2	1,550.1	3.3	3.1	-97.41	-72.2	-554.8	559.5	553.1	6.40	87.360		
1,600.0	1,600.0	1,651.3	1,651.3	3.5	3.4	-97.45	-72.5	-554.6	559.4	552.5	6.84	81.734		
1,700.0	1,700.0	1,752.2	1,752.2	3.7	3.6	-97.46	-72.6	-554.3	559.0	551.7	7.28	76.763		
1,800.0	1,800.0	1,852.7	1,852.7	3.9	3.8	-97.51	-73.0	-553.8	558.6	550.9	7.72	72.367		
1,900.0	1,900.0	1,953.8	1,953.8	4.2	4.0	-97.57	-73.5	-553.2	558.0	549.9	8.16	68.405		
2,000.0	2,000.0	2,056.3	2,056.3	4.4	4.2	-97.67	-74.3	-552.2	557.2	548.6	8.60	64.771		
2,094.5	2,094.5	2,151.6	2,151.6	4.6	4.4	-112.86	-75.2	-550.8	556.6	547.5	9.02	61.729		
2,100.0	2,100.0	2,157.1	2,157.0	4.6	4.4	-112.88	-75.2	-550.7	556.6	547.5	9.04	61.566 ES		
2,200.0	2,199.8	2,257.2	2,257.2	4.8	4.6	-113.50	-76.4	-549.3	557.4	547.9	9.47	58.857		
2,300.0	2,299.5	2,356.2	2,356.2	5.1	4.9	-114.37	-77.2	-547.8	559.6	549.7	9.89	56.557		
2,400.0	2,398.7	2,453.9	2,453.9	5.3	5.1	-115.49	-77.9	-546.7	563.7	553.4	10.32	54.640		
2,500.0	2,497.5	2,551.2	2,551.1	5.5	5.3	-116.85	-78.6	-545.8	569.9	559.1	10.75	53.032		
2,599.2	2,594.8	2,647.9	2,647.8	5.8	5.4	-118.40	-79.1	-545.1	578.2	567.1	11.18	51.699		
2,700.0	2,693.4	2,746.0	2,745.9	6.1	5.7	-120.19	-79.3	-544.5	588.2	576.5	11.66	50.450		
2,800.0	2,791.3	2,842.6	2,842.5	6.4	5.9	-121.88	-79.5	-544.2	598.7	586.6	12.14	49.330		
2,900.0	2,889.1	2,940.8	2,940.7	6.7	6.1	-123.49	-79.2	-544.1	609.9	597.3	12.63	48.299		
3,000.0	2,986.9	3,043.0	3,042.9	7.1	6.3	-125.09	-78.5	-543.8	621.3	608.2	13.13	47.303		
3,100.0	3,084.7	3,145.3	3,145.2	7.4	6.5	-126.61	-77.3	-542.7	632.2	618.5	13.65	46.326		
3,200.0	3,182.5	3,242.7	3,242.6	7.8	6.7	-127.98	-75.9	-541.5	643.3	629.1	14.15	45.459		
3,300.0	3,280.4	3,339.9	3,339.8	8.1	6.9	-129.27	-74.1	-540.8	654.9	640.3	14.66	44.689		
3,400.0	3,378.2	3,438.2	3,438.0	8.5	7.1	-130.52	-72.2	-540.0	666.9	651.8	15.16	43.990		
3,500.0	3,476.0	3,535.6	3,535.4	8.9	7.3	-131.72	-70.4	-539.4	679.3	663.6	15.66	43.367		
3,600.0	3,573.8	3,632.9	3,632.7	9.3	7.5	-132.87	-68.7	-538.8	692.1	676.0	16.17	42.814		
3,700.0	3,671.6	3,732.5	3,732.3	9.7	7.7	-134.03	-67.1	-538.2	705.2	688.6	16.67	42.300		
3,800.0	3,769.5	3,834.2	3,834.0	10.1	7.9	-135.20	-65.7	-536.9	718.2	701.0	17.18	41.801		
3,900.0	3,867.3	3,934.2	3,934.0	10.5	8.1	-136.37	-64.8	-534.9	731.0	713.4	17.68	41.338		
4,000.0	3,965.1	4,030.2	4,029.9	10.9	8.3	-137.46	-63.9	-532.9	744.1	726.0	18.18	40.938		
4,100.0	4,062.9	4,122.7	4,122.4	11.3	8.5	-138.49	-63.5	-531.5	758.2	739.5	18.66	40.631		
4,200.0	4,160.8	4,219.9	4,219.6	11.7	8.7	-139.55	-63.4	-530.1	772.8	753.6	19.15	40.359		
4,300.0	4,258.6	4,317.9	4,317.6	12.1	9.0	-140.65	-64.2	-528.2	787.8	768.1	19.63	40.123		
4,400.0	4,356.4	4,418.8	4,418.4	12.5	9.2	-141.78	-65.4	-525.5	802.7	782.6	20.12	39.892		
4,500.0	4,454.2	4,511.6	4,511.1	12.9	9.4	-142.83	-67.0	-522.9	818.1	797.5	20.59	39.730		
4,600.0	4,552.0	4,608.9	4,608.4	13.3	9.6	-143.91	-69.1	-520.3	834.1	813.0	21.07	39.595		
4,700.0	4,649.9	4,707.3	4,706.7	13.8	9.8	-144.94	-71.0	-517.6	850.3	828.8	21.54	39.481		
4,800.0	4,747.7	4,808.6	4,808.0	14.2	10.0	-145.93	-72.4	-515.0	866.5	844.5	22.01	39.364		
4,858.8	4,805.2	4,862.9	4,862.3	14.4	10.1	-146.44	-73.0	-513.8	876.2	853.9	22.28	39.317		
4,900.0	4,845.6	4,900.0	4,899.4	14.6	10.2	-146.84	-73.5	-513.0	882.8	860.3	22.48	39.274		
5,000.0	4,944.0	4,996.7	4,996.0	14.9	10.4	-147.75	-74.9	-511.2	897.3	874.4	22.92	39.158		
5,100.0	5,043.0	5,097.7	5,097.0	15.2	10.6	-148.49	-76.3	-509.4	909.1	885.8	23.34	38.948		
5,200.0	5,142.4	5,196.8	5,196.1	15.4	10.8	-149.04	-77.2	-507.9	917.9	894.1	23.74	38.659		
5,300.0	5,242.1	5,297.7	5,297.0	15.6	11.0	-149.43	-78.0	-506.5	923.6	899.5	24.13	38.284		
5,400.0	5,342.0	5,400.0	5,399.3	15.8	11.2	-149.67	-78.6	-504.9	926.2	901.7	24.49	37.820		
5,458.0	5,400.0	5,457.0	5,456.3	15.9	11.4	-134.82	-78.9	-503.9	926.2	901.5	24.68	37.523		
5,500.0	5,442.0	5,497.7	5,497.0	15.9	11.4	-134.86	-79.2	-503.3	926.0	901.1	24.84	37.276		
5,600.0	5,542.0	5,594.9	5,594.2	16.1	11.6	-134.97	-80.1	-501.8	925.6	900.4	25.23	36.681		

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

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Reference Well:	Pronghorn P-T-17HNB	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 #2 (10-25-12)	Offset TVD Reference:	Offset Datum

Offset Design													Pronghorn 31-17 - Pronghorn 31-17 (existing Vert) - Wellbore #1 - Wellbore #1		Offset Site Error: 0.0 ft	
Survey Program: 100-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)					
5,639.1	5,581.1	5,636.5	5,635.7	16.2	11.7	-135.01	-80.6	-501.2	925.5	900.1	25.39	36.443				
5,650.0	5,592.0	5,648.2	5,647.5	16.2	11.8	45.00	-80.7	-501.0	925.3	899.9	25.42	36.402				
5,700.0	5,641.9	5,701.7	5,701.0	16.2	11.9	45.33	-81.0	-500.1	922.5	897.0	25.48	36.202				
5,750.0	5,691.2	5,750.3	5,749.6	16.2	12.0	46.14	-81.2	-499.2	916.3	890.8	25.46	35.984				
5,800.0	5,739.5	5,798.0	5,797.2	16.1	12.1	47.43	-81.5	-498.4	906.8	881.4	25.39	35.714				
5,850.0	5,786.3	5,843.6	5,842.8	16.0	12.2	49.22	-81.8	-497.6	894.4	869.1	25.30	35.356				
5,900.0	5,831.3	5,887.3	5,886.5	15.9	12.3	51.53	-82.0	-497.0	879.2	854.0	25.22	34.861				
5,950.0	5,873.9	5,928.0	5,927.2	15.8	12.3	54.33	-82.2	-496.5	861.7	836.5	25.20	34.195				
6,000.0	5,913.8	5,965.9	5,965.1	15.6	12.4	57.62	-82.5	-496.2	842.1	816.9	25.26	33.333				
6,050.0	5,950.7	6,001.0	6,000.2	15.4	12.5	61.36	-82.7	-496.0	821.0	795.6	25.43	32.281				
6,100.0	5,984.2	6,035.2	6,034.4	15.2	12.6	65.57	-83.0	-495.8	798.8	773.1	25.72	31.062				
6,150.0	6,014.0	6,065.5	6,064.7	15.0	12.6	69.99	-83.1	-495.7	776.1	750.0	26.06	29.785				
6,200.0	6,039.7	6,091.7	6,090.9	14.8	12.7	74.44	-83.2	-495.6	753.4	727.0	26.39	28.545				
6,250.0	6,061.3	6,114.4	6,113.6	14.7	12.7	78.76	-83.2	-495.5	731.5	704.8	26.69	27.408				
6,300.0	6,078.4	6,132.8	6,132.0	14.6	12.8	82.70	-83.2	-495.4	710.9	684.0	26.91	26.421				
6,350.0	6,091.0	6,146.2	6,145.5	14.5	12.8	86.01	-83.2	-495.3	692.5	665.4	27.05	25.596				
6,400.0	6,098.9	6,154.6	6,153.8	14.5	12.8	88.56	-83.2	-495.3	676.7	649.5	27.16	24.919				
6,450.0	6,101.9	6,157.8	6,157.0	14.5	12.8	90.27	-83.2	-495.3	664.1	636.9	27.25	24.369				
6,457.3	6,102.0	6,157.8	6,157.0	14.5	12.8	90.45	-83.2	-495.3	662.6	635.3	27.27	24.299				
6,500.0	6,102.0	6,157.8	6,157.0	14.6	12.8	90.44	-83.2	-495.3	655.2	627.8	27.38	23.931				
6,557.7	6,102.0	6,157.7	6,156.9	14.8	12.8	90.43	-83.2	-495.3	649.4	621.8	27.60	23.535				
6,558.2	6,102.0	6,157.7	6,156.9	14.8	12.8	90.43	-83.2	-495.3	649.4	621.8	27.60	23.532				
6,593.6	6,102.0	6,157.6	6,156.8	14.9	12.8	90.43	-83.2	-495.3	648.4	620.7	27.72	23.397				
6,600.0	6,102.0	6,157.6	6,156.8	14.9	12.8	90.42	-83.2	-495.3	648.5	620.7	27.74	23.380				
6,700.0	6,102.0	6,157.4	6,156.6	15.6	12.8	90.41	-83.2	-495.3	657.1	628.7	28.39	23.149 SF				
6,800.0	6,102.0	6,157.3	6,156.5	16.5	12.8	90.39	-83.2	-495.3	680.5	651.3	29.24	23.276				
6,900.0	6,102.0	6,157.1	6,156.3	17.5	12.8	90.38	-83.2	-495.3	717.2	686.9	30.26	23.703				
7,000.0	6,102.0	6,156.9	6,156.1	18.7	12.8	90.37	-83.2	-495.3	765.3	733.9	31.42	24.355				
7,100.0	6,102.0	6,156.8	6,156.0	20.0	12.8	90.35	-83.2	-495.3	822.8	790.0	32.70	25.158				
7,200.0	6,102.0	6,156.6	6,155.8	21.3	12.8	90.34	-83.2	-495.3	887.8	853.7	34.08	26.049				
7,300.0	6,102.0	6,156.4	6,155.7	22.8	12.8	90.32	-83.2	-495.3	958.9	923.4	35.54	26.981				

Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well Pronghorn P-T-17HNB
Project:	SEC.17-T5N-R61W	TVD Reference:	WELL @ 4632.0ft (RKB - 13')
Reference Site:	Pronghorn P-17 Pad Sec.17-T5N-R61W	MD Reference:	WELL @ 4632.0ft (RKB - 13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Pronghorn P-T-17HNB	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 #2 (10-25-12)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 495-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	-74.36	189.4	-676.7	702.7					
100.0	100.0	98.6	98.6	0.1	0.1	-74.36	189.4	-676.7	702.7	702.5	0.22	3,143.180		
200.0	200.0	199.2	199.2	0.3	0.2	-74.37	189.3	-676.6	702.6	702.0	0.56	1,251.073		
300.0	300.0	299.8	299.8	0.6	0.3	-74.38	189.1	-676.4	702.4	701.5	0.90	780.753		
400.0	400.0	400.4	400.4	0.8	0.5	-74.40	188.8	-676.2	702.0	700.8	1.24	567.269		
500.0	500.0	501.0	501.0	1.0	0.6	-74.42	188.4	-675.9	701.7	700.1	1.58	443.502		
600.0	600.0	601.1	601.1	1.2	0.8	-74.46	187.9	-675.6	701.2	699.2	2.03	345.827		
700.0	700.0	701.5	701.5	1.5	1.0	-74.50	187.3	-675.3	700.8	698.3	2.46	284.344		
800.0	800.0	801.5	801.5	1.7	1.2	-74.54	186.7	-674.9	700.2	697.3	2.89	241.923		
900.0	900.0	901.5	901.5	1.9	1.4	-74.58	186.1	-674.5	699.8	696.4	3.32	210.655		
1,000.0	1,000.0	1,001.8	1,001.8	2.1	1.6	-74.62	185.5	-674.2	699.2	695.5	3.75	186.396		
1,100.0	1,100.0	1,101.5	1,101.5	2.4	1.8	-74.65	184.9	-673.8	698.7	694.5	4.18	167.094		
1,200.0	1,200.0	1,201.3	1,201.3	2.6	2.0	-74.70	184.2	-673.5	698.2	693.6	4.62	151.244		
1,300.0	1,300.0	1,301.4	1,301.4	2.8	2.2	-74.76	183.4	-673.2	697.8	692.7	5.05	138.075		
1,400.0	1,400.0	1,401.6	1,401.6	3.0	2.5	-74.82	182.6	-672.9	697.3	691.8	5.49	127.039		
1,500.0	1,500.0	1,501.6	1,501.6	3.3	2.7	-74.84	182.2	-672.5	696.7	690.8	5.92	117.759		
1,600.0	1,600.0	1,601.1	1,601.1	3.5	2.9	-74.86	181.9	-672.1	696.3	689.9	6.35	109.716		
1,700.0	1,700.0	1,702.0	1,701.9	3.7	3.1	-74.87	181.6	-671.7	695.8	689.0	6.78	102.623		
1,800.0	1,800.0	1,803.2	1,803.2	3.9	3.3	-74.86	181.6	-671.0	695.1	687.9	7.22	96.316		
1,900.0	1,900.0	1,903.8	1,903.8	4.2	3.5	-74.85	181.4	-670.2	694.3	686.6	7.65	90.702		
2,000.0	2,000.0	2,002.8	2,002.8	4.4	3.7	-74.86	181.2	-669.5	693.5	685.5	8.09	85.731		
2,100.0	2,100.0	2,104.5	2,104.4	4.6	3.9	-89.99	180.4	-668.8	692.7	684.2	8.53	81.228		
2,200.0	2,199.8	2,204.0	2,203.9	4.8	4.1	-90.53	179.2	-668.2	691.8	682.9	8.96	77.172		
2,300.0	2,299.5	2,301.2	2,301.2	5.1	4.3	-91.33	177.9	-667.7	691.2	681.8	9.39	73.578		
2,338.5	2,337.7	2,338.2	2,338.1	5.1	4.4	-91.69	177.7	-667.6	691.2	681.6	9.56	72.300 CC		
2,400.0	2,398.7	2,397.8	2,397.7	5.3	4.5	-92.33	177.6	-667.5	691.3	681.5	9.82	70.373 ES		
2,500.0	2,497.5	2,496.0	2,495.9	5.5	4.7	-93.58	177.7	-667.4	692.0	681.8	10.26	67.417		
2,599.2	2,594.8	2,592.0	2,592.0	5.8	4.9	-95.03	178.0	-667.4	693.5	682.8	10.72	64.675		
2,700.0	2,693.4	2,690.4	2,690.4	6.1	5.1	-96.67	178.4	-667.5	695.9	684.6	11.22	62.043		
2,800.0	2,791.3	2,793.1	2,793.1	6.4	5.3	-98.37	179.0	-667.4	698.6	686.9	11.73	59.541		
2,900.0	2,889.1	2,899.9	2,899.8	6.7	5.6	-100.11	179.5	-666.0	700.7	688.5	12.27	57.092		
3,000.0	2,986.9	3,001.5	3,001.4	7.1	5.8	-101.76	179.8	-663.8	702.6	689.8	12.81	54.828		
3,100.0	3,084.7	3,093.0	3,092.9	7.4	6.0	-103.20	180.7	-662.0	705.2	691.9	13.34	52.863		
3,200.0	3,182.5	3,184.8	3,184.7	7.8	6.2	-104.54	182.6	-661.1	709.3	695.4	13.87	51.127		
3,300.0	3,280.4	3,273.3	3,273.1	8.1	6.3	-105.76	185.3	-661.0	714.8	700.3	14.40	49.619		
3,400.0	3,378.2	3,355.3	3,355.0	8.5	6.5	-106.91	187.2	-662.6	722.6	707.6	14.93	48.400		
3,500.0	3,476.0	3,455.0	3,454.7	8.9	6.7	-108.37	188.3	-665.6	732.0	716.5	15.49	47.249		
3,600.0	3,573.8	3,559.1	3,558.8	9.3	6.9	-109.94	188.5	-667.9	741.2	725.1	16.06	46.148		
3,700.0	3,671.6	3,659.6	3,659.3	9.7	7.2	-111.43	188.5	-669.3	750.1	733.5	16.62	45.127		
3,800.0	3,769.5	3,755.0	3,754.7	10.1	7.4	-112.81	188.7	-670.9	759.7	742.5	17.17	44.239		
3,900.0	3,867.3	3,852.5	3,852.1	10.5	7.6	-114.16	189.0	-672.6	769.8	752.1	17.72	43.438		
4,000.0	3,965.1	3,962.3	3,961.9	10.9	7.8	-115.60	190.1	-673.9	779.8	761.5	18.29	42.626		
4,100.0	4,062.9	4,064.0	4,063.6	11.3	8.0	-116.89	191.5	-674.0	788.8	770.0	18.85	41.851		
4,200.0	4,160.8	4,162.4	4,162.0	11.7	8.2	-118.21	191.6	-673.6	798.3	778.9	19.40	41.156		
4,300.0	4,258.6	4,260.7	4,260.3	12.1	8.4	-119.57	190.6	-672.9	808.0	788.1	19.94	40.527		
4,400.0	4,356.4	4,357.6	4,357.2	12.5	8.6	-120.97	188.2	-671.8	818.2	797.8	20.47	39.972		
4,500.0	4,454.2	4,455.4	4,454.9	12.9	8.8	-122.38	185.6	-670.7	829.0	808.0	20.99	39.485		
4,600.0	4,552.0	4,553.3	4,552.8	13.3	9.0	-123.69	183.8	-669.8	840.1	818.6	21.52	39.044		
4,700.0	4,649.9	4,651.9	4,651.4	13.8	9.2	-124.98	182.1	-668.8	851.7	829.6	22.04	38.646		
4,800.0	4,747.7	4,752.2	4,751.7	14.2	9.4	-126.26	180.3	-667.5	863.4	840.8	22.56	38.277		
4,858.8	4,805.2	4,812.6	4,812.1	14.4	9.6	-126.99	179.6	-666.6	870.3	847.4	22.86	38.068		
4,900.0	4,845.6	4,855.2	4,854.7	14.6	9.7	-127.54	179.4	-666.0	874.9	851.8	23.07	37.929		

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 Pronghorn P-T-17HNB
Project:	SEC.17-T5N-R61W	TVD Reference:	WELL @ 4632.0ft (RKB - 13')
Reference Site:	Pronghorn P-17 Pad Sec.17-T5N-R61W	MD Reference:	WELL @ 4632.0ft (RKB - 13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Pronghorn P-T-17HNB	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 #2 (10-25-12)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 495-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		
5,000.0	4,944.0	4,951.5	4,950.9	14.9	9.9	-128.59	179.6	-664.9	884.7	861.2	23.50	37.639		
5,100.0	5,043.0	5,048.5	5,048.0	15.2	10.1	-129.40	180.0	-664.1	892.8	868.9	23.93	37.315		
5,200.0	5,142.4	5,145.6	5,145.0	15.4	10.3	-130.00	180.5	-663.6	899.0	874.6	24.33	36.955		
5,300.0	5,242.1	5,240.5	5,239.9	15.6	10.5	-130.37	181.0	-663.6	903.4	878.7	24.70	36.572		
5,400.0	5,342.0	5,346.7	5,346.1	15.8	10.7	-130.56	181.6	-663.5	905.5	880.5	25.08	36.106		
5,458.0	5,400.0	5,408.7	5,408.2	15.9	10.8	-115.65	182.1	-663.1	905.4	880.1	25.29	35.799		
5,500.0	5,442.0	5,453.9	5,453.3	15.9	10.9	-115.65	182.4	-662.6	904.9	879.4	25.45	35.549		
5,600.0	5,542.0	5,547.4	5,546.9	16.1	11.1	-115.66	182.8	-661.1	903.3	877.4	25.83	34.974		
5,622.5	5,564.6	5,561.6	5,561.1	16.1	11.1	-115.68	182.5	-661.0	903.2	877.3	25.90	34.878		
5,639.1	5,581.1	5,571.1	5,570.5	16.2	11.2	-115.71	182.2	-660.8	903.3	877.3	25.94	34.816		
5,650.0	5,592.0	5,577.4	5,576.8	16.2	11.2	64.29	181.9	-660.8	903.4	877.4	25.97	34.791		
5,700.0	5,641.9	5,602.7	5,602.0	16.2	11.2	64.28	180.0	-660.6	903.3	877.2	26.02	34.718		
5,750.0	5,691.2	5,626.8	5,625.9	16.2	11.3	64.41	176.9	-660.6	902.5	876.5	26.01	34.696		
5,800.0	5,739.5	5,649.0	5,647.8	16.1	11.3	64.66	173.1	-660.9	901.1	875.1	25.95	34.721		
5,850.0	5,786.3	5,680.0	5,678.0	16.0	11.4	65.12	166.3	-661.4	899.0	873.2	25.88	34.738		
5,900.0	5,831.3	5,703.9	5,701.0	15.9	11.5	65.68	159.9	-662.0	896.3	870.5	25.76	34.789		
5,950.0	5,873.9	5,729.0	5,725.0	15.8	11.5	66.39	152.2	-662.9	892.9	867.3	25.64	34.827		
6,000.0	5,913.8	5,753.8	5,748.2	15.6	11.6	67.21	143.5	-663.8	889.0	863.5	25.51	34.846		
6,050.0	5,950.7	5,779.8	5,772.0	15.4	11.6	68.19	133.3	-665.1	884.8	859.4	25.41	34.817		
6,100.0	5,984.2	5,808.5	5,797.7	15.2	11.7	69.35	120.6	-666.5	880.1	854.8	25.36	34.707		
6,150.0	6,014.0	5,841.1	5,826.0	15.0	11.8	70.73	104.5	-668.0	875.0	849.6	25.38	34.480		
6,200.0	6,039.7	5,873.6	5,853.3	14.8	11.9	72.24	86.9	-669.3	869.4	843.9	25.45	34.155		
6,250.0	6,061.3	5,897.0	5,872.4	14.7	12.0	73.58	73.4	-670.3	863.6	838.1	25.53	33.827		
6,300.0	6,078.4	5,916.4	5,887.8	14.6	12.1	74.83	61.7	-671.4	858.3	832.7	25.64	33.483		
6,350.0	6,091.0	5,929.0	5,897.7	14.5	12.1	75.80	53.9	-672.4	854.0	828.2	25.74	33.181		
6,400.0	6,098.9	5,960.0	5,921.1	14.5	12.3	77.54	33.9	-675.4	850.4	824.3	26.04	32.653		
6,450.0	6,101.9	5,987.1	5,940.7	14.5	12.4	79.12	15.3	-678.1	847.6	821.2	26.38	32.134		
6,457.3	6,102.0	5,992.1	5,944.2	14.5	12.4	79.39	11.8	-678.6	847.2	820.8	26.44	32.047		
6,500.0	6,102.0	6,026.3	5,967.7	14.6	12.6	80.99	-12.9	-681.7	845.6	818.7	26.84	31.503		
6,557.7	6,102.0	6,079.8	6,001.6	14.8	12.9	83.31	-54.0	-686.0	844.9	817.4	27.52	30.698		
6,558.2	6,102.0	6,080.8	6,002.1	14.8	13.0	83.35	-54.8	-686.0	844.9	817.4	27.53	30.687		
6,600.0	6,102.0	6,166.0	6,047.0	14.9	13.6	86.39	-127.1	-687.2	842.9	814.4	28.45	29.625		
6,700.0	6,102.0	6,238.1	6,077.2	15.6	14.2	88.45	-192.5	-687.6	841.1	811.3	29.79	28.228		
6,763.7	6,102.0	6,302.0	6,096.5	16.2	14.9	89.76	-253.4	-687.5	840.6	809.6	31.02	27.097		
6,800.0	6,102.0	6,324.0	6,101.4	16.5	15.1	90.10	-274.9	-687.7	841.0	809.4	31.58	26.631		
6,900.0	6,102.0	6,446.8	6,115.9	17.5	16.6	91.08	-396.7	-688.1	841.5	807.4	34.10	24.676		
7,000.0	6,102.0	6,560.8	6,116.9	18.7	18.1	91.15	-510.6	-685.4	839.1	802.3	36.74	22.840		
7,100.0	6,102.0	6,660.0	6,115.1	20.0	19.5	91.04	-609.7	-682.3	835.9	796.5	39.39	21.218		
7,200.0	6,102.0	6,758.9	6,113.1	21.3	20.8	90.90	-708.5	-680.4	833.9	791.8	42.04	19.836		
7,300.0	6,102.0	6,854.7	6,112.4	22.8	22.1	90.86	-804.3	-678.1	831.5	786.7	44.80	18.561		
7,385.8	6,102.0	6,922.7	6,113.5	24.1	23.0	90.93	-872.3	-677.2	830.5	783.4	47.04	17.657		
7,400.0	6,102.0	6,937.6	6,113.8	24.3	23.2	90.95	-887.2	-677.2	830.5	783.1	47.47	17.495		
7,500.0	6,102.0	7,014.0	6,115.7	25.9	24.3	91.08	-963.6	-678.0	831.7	781.6	50.18	16.576		
7,600.0	6,102.0	7,106.1	6,115.0	27.5	25.8	91.03	-1,055.6	-681.9	835.9	782.7	53.24	15.700		
7,700.0	6,102.0	7,225.0	6,114.5	29.2	27.6	90.99	-1,174.5	-685.3	838.7	782.0	56.72	14.787		
7,800.0	6,102.0	7,304.8	6,113.8	30.9	28.9	90.94	-1,254.2	-687.6	841.6	781.9	59.70	14.098		
7,900.0	6,102.0	7,389.0	6,112.7	32.6	30.2	90.86	-1,338.3	-691.8	846.7	783.9	62.73	13.497		
8,000.0	6,102.0	7,485.3	6,113.2	34.3	31.8	90.89	-1,434.3	-698.7	853.8	787.8	66.02	12.933		
8,100.0	6,102.0	7,595.2	6,114.8	36.1	33.6	90.99	-1,544.0	-704.5	859.0	789.4	69.59	12.343		
8,200.0	6,102.0	7,701.9	6,114.8	37.8	35.4	90.99	-1,650.7	-708.4	862.6	789.5	73.16	11.790		
8,300.0	6,102.0	7,814.1	6,112.1	39.6	37.3	90.80	-1,762.8	-711.7	865.3	788.5	76.85	11.261		
8,400.0	6,102.0	7,926.1	6,110.0	41.4	39.1	90.66	-1,874.7	-714.6	867.9	787.5	80.43	10.791		

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 Pronghorn P-T-17HNB
Project:	SEC.17-T5N-R61W	TVD Reference:	WELL @ 4632.0ft (RKB - 13')
Reference Site:	Pronghorn P-17 Pad Sec.17-T5N-R61W	MD Reference:	WELL @ 4632.0ft (RKB - 13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Pronghorn P-T-17HNB	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 #2 (10-25-12)	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 ft
PRONGHORN 31-34-17HZ PAD S17-5N-61W - PRONGHORN 31-34-17HZ (Exist.) - Wellbore #1 - We												Offset Well Error:	0.0 ft
Survey Program: 495-MWD													
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
8,500.0	6,102.0	8,049.1	6,109.9	43.2	41.1	90.65	-1,997.7	-715.7	869.0	784.7	84.30	10.308	
8,600.0	6,102.0	8,157.9	6,111.4	45.0	43.0	90.75	-2,106.4	-714.2	867.6	779.7	87.93	9.867	
8,700.0	6,102.0	8,247.2	6,113.1	46.9	44.5	90.86	-2,195.8	-713.3	866.6	775.3	91.32	9.490	
8,800.0	6,102.0	8,347.9	6,113.0	48.7	46.3	90.86	-2,296.5	-711.8	865.1	770.2	94.93	9.113	
8,900.0	6,102.0	8,453.6	6,111.0	50.5	48.2	90.73	-2,402.1	-710.7	864.1	765.4	98.64	8.760	
9,000.0	6,102.0	8,554.4	6,108.5	52.4	49.9	90.56	-2,502.9	-709.6	863.0	760.7	102.23	8.441	
9,100.0	6,102.0	8,647.5	6,107.6	54.2	51.5	90.50	-2,596.0	-708.9	862.1	756.4	105.67	8.158	
9,193.4	6,102.0	8,734.6	6,107.7	56.0	53.0	90.51	-2,683.0	-707.9	861.1	752.2	108.91	7.907	
9,200.0	6,102.0	8,738.5	6,107.7	56.1	53.1	90.51	-2,686.9	-707.9	861.2	752.1	109.10	7.894	
9,300.0	6,102.0	8,831.8	6,107.1	57.9	54.7	90.47	-2,780.3	-708.8	862.0	749.4	112.59	7.657	
9,400.0	6,102.0	8,927.5	6,107.3	59.8	56.3	90.48	-2,875.9	-710.0	863.4	747.3	116.09	7.437	
9,500.0	6,102.0	9,018.4	6,109.0	61.7	57.9	90.60	-2,966.8	-711.6	865.1	745.6	119.51	7.239	
9,600.0	6,102.0	9,121.9	6,109.4	63.5	59.7	90.62	-3,070.3	-714.1	867.5	744.3	123.21	7.041	
9,700.0	6,102.0	9,219.4	6,107.6	65.4	61.5	90.50	-3,167.7	-716.2	869.7	742.9	126.83	6.857	
9,800.0	6,102.0	9,312.7	6,107.0	67.3	63.1	90.46	-3,261.0	-718.6	872.3	742.0	130.30	6.695	
9,900.0	6,102.0	9,388.0	6,106.4	69.2	64.4	90.42	-3,336.2	-722.4	877.3	743.8	133.50	6.571	
10,000.0	6,102.0	9,489.3	6,106.4	71.0	66.1	90.42	-3,437.3	-728.4	883.1	746.1	137.09	6.442	
10,100.0	6,102.0	9,601.0	6,109.7	72.9	68.0	90.63	-3,548.8	-733.9	888.1	747.2	140.92	6.302	
10,200.0	6,102.0	9,707.2	6,110.5	74.8	69.9	90.67	-3,654.9	-738.1	892.0	747.3	144.68	6.165	
10,300.0	6,102.0	9,818.5	6,109.7	76.7	71.9	90.62	-3,766.1	-741.9	895.4	746.9	148.54	6.028	
10,400.0	6,102.0	9,957.1	6,106.5	78.6	74.3	90.42	-3,904.6	-742.4	895.8	742.9	152.89	5.859	
10,500.0	6,102.0	10,058.5	6,105.9	80.5	76.1	90.38	-4,006.0	-740.9	894.3	737.7	156.54	5.713	
10,600.0	6,102.0	10,163.8	6,105.9	82.4	78.0	90.38	-4,111.3	-737.9	891.4	731.0	160.31	5.560	
10,700.0	6,102.0	10,272.2	6,106.2	84.3	79.9	90.40	-4,219.6	-733.6	887.4	723.2	164.15	5.406	
10,800.0	6,102.0	10,364.8	6,105.8	86.2	81.6	90.37	-4,312.2	-730.8	884.3	716.6	167.68	5.274	
10,864.8	6,102.0	10,407.0	6,105.7	87.4	82.3	90.37	-4,354.4	-730.2	883.5	713.8	169.66	5.207	
10,904.0	6,102.0	10,438.0	6,105.8	88.1	82.8	90.38	-4,385.4	-730.4	883.7	712.8	170.94	5.170 SF	

Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well Pronghorn P-T-17HNB
Project:	SEC.17-T5N-R61W	TVD Reference:	WELL @ 4632.0ft (RKB - 13')
Reference Site:	Pronghorn P-17 Pad Sec.17-T5N-R61W	MD Reference:	WELL @ 4632.0ft (RKB - 13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Pronghorn P-T-17HNB	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 #2 (10-25-12)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-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	2.0	2.0	0.0	0.0	0.00	18.2	0.0	18.2	18.2	0.00	7,454.239		
100.0	100.0	102.0	102.0	0.1	0.1	0.00	18.2	0.0	18.2	18.0	0.23	79.454		
200.0	200.0	202.0	202.0	0.3	0.3	0.00	18.2	0.0	18.2	17.5	0.68	26.835		
300.0	300.0	302.0	302.0	0.6	0.6	0.00	18.2	0.0	18.2	17.1	1.13	16.144		
366.0	366.0	368.0	368.0	0.7	0.7	0.00	18.2	0.0	18.2	16.8	1.42	12.783 CC		
400.0	400.0	402.0	402.0	0.8	0.8	0.00	18.2	0.0	18.2	16.6	1.58	11.546 ES		
500.0	500.0	501.6	501.6	1.0	1.0	4.74	19.1	1.6	19.1	17.1	2.02	9.476		
600.0	600.0	601.1	600.9	1.2	1.2	15.99	21.6	6.2	22.5	20.0	2.47	9.115		
700.0	700.0	700.0	699.5	1.5	1.5	28.14	25.7	13.8	29.3	26.4	2.93	10.007		
800.0	800.0	798.2	796.9	1.7	1.7	37.61	31.5	24.2	40.0	36.6	3.40	11.781		
900.0	900.0	895.5	893.0	1.9	2.0	44.08	38.7	37.5	54.6	50.8	3.88	14.096		
1,000.0	1,000.0	991.6	987.4	2.1	2.4	48.40	47.4	53.4	72.9	68.5	4.36	16.719		
1,100.0	1,100.0	1,086.4	1,079.9	2.4	2.8	51.33	57.5	71.8	94.6	89.8	4.85	19.508		
1,200.0	1,200.0	1,181.3	1,171.7	2.6	3.2	53.38	68.9	92.7	119.4	114.0	5.35	22.318		
1,300.0	1,300.0	1,278.0	1,265.2	2.8	3.7	54.78	80.7	114.4	144.7	138.9	5.85	24.761		
1,400.0	1,400.0	1,374.7	1,358.7	3.0	4.2	55.76	92.6	136.1	170.2	163.8	6.35	26.821		
1,500.0	1,500.0	1,471.3	1,452.1	3.3	4.6	56.49	104.5	157.8	195.7	188.8	6.85	28.571		
1,600.0	1,600.0	1,568.0	1,545.6	3.5	5.1	57.05	116.3	179.4	221.2	213.8	7.35	30.074		
1,700.0	1,700.0	1,664.7	1,639.0	3.7	5.6	57.49	128.2	201.1	246.7	238.8	7.86	31.377		
1,800.0	1,800.0	1,761.4	1,732.5	3.9	6.2	57.85	140.0	222.8	272.2	263.8	8.37	32.516		
1,900.0	1,900.0	1,858.0	1,826.0	4.2	6.7	58.15	151.9	244.5	297.7	288.9	8.88	33.519		
2,000.0	2,000.0	1,954.7	1,919.4	4.4	7.2	58.40	163.8	266.2	323.3	313.9	9.40	34.410		
2,100.0	2,100.0	2,051.7	2,013.2	4.6	7.7	43.55	175.7	288.0	347.6	338.0	9.58	36.299		
2,200.0	2,199.8	2,149.1	2,107.4	4.8	8.2	43.99	187.6	309.9	369.5	359.4	10.07	36.690		
2,300.0	2,299.5	2,247.0	2,202.0	5.1	8.7	44.74	199.6	331.8	389.0	378.5	10.56	36.829		
2,400.0	2,398.7	2,345.1	2,296.8	5.3	9.3	45.78	211.7	353.8	406.3	395.2	11.06	36.741		
2,500.0	2,497.5	2,443.3	2,391.8	5.5	9.8	47.09	223.7	375.9	421.4	409.8	11.56	36.445		
2,599.2	2,594.8	2,540.8	2,486.0	5.8	10.3	48.64	235.7	397.7	434.4	422.3	12.08	35.950		
2,700.0	2,693.4	2,639.8	2,581.7	6.1	10.8	50.48	247.8	420.0	446.9	434.2	12.65	35.329		
2,800.0	2,791.3	2,738.0	2,676.7	6.4	11.4	52.20	259.9	442.0	459.7	446.5	13.24	34.726		
2,900.0	2,889.1	2,836.3	2,771.6	6.7	11.9	53.83	271.9	464.0	472.9	459.1	13.85	34.137		
3,000.0	2,986.9	2,934.5	2,866.6	7.1	12.4	55.38	284.0	486.1	486.5	472.0	14.49	33.565		
3,100.0	3,084.7	3,032.7	2,961.6	7.4	12.9	56.84	296.0	508.1	500.4	485.3	15.16	33.013		
3,200.0	3,182.5	3,130.9	3,056.5	7.8	13.5	58.22	308.1	530.2	514.7	498.8	15.84	32.482		
3,300.0	3,280.4	3,229.2	3,151.5	8.1	14.0	59.52	320.1	552.2	529.2	512.6	16.55	31.973		
3,400.0	3,378.2	3,327.4	3,246.4	8.5	14.5	60.76	332.2	574.3	543.9	526.6	17.27	31.488		
3,500.0	3,476.0	3,425.6	3,341.4	8.9	15.1	61.93	344.2	596.3	558.9	540.9	18.01	31.026		
3,600.0	3,573.8	3,523.9	3,436.4	9.3	15.6	63.05	356.3	618.4	574.1	555.4	18.77	30.588		
3,700.0	3,671.6	3,622.1	3,531.3	9.7	16.1	64.10	368.3	640.4	589.6	570.0	19.54	30.173		
3,800.0	3,769.5	3,720.3	3,626.3	10.1	16.6	65.10	380.4	662.4	605.2	584.8	20.32	29.781		
3,900.0	3,867.3	3,818.5	3,721.3	10.5	17.2	66.05	392.4	684.5	620.9	599.8	21.11	29.411		
4,000.0	3,965.1	3,916.8	3,816.2	10.9	17.7	66.96	404.5	706.5	636.9	615.0	21.92	29.062		
4,100.0	4,062.9	4,015.0	3,911.2	11.3	18.2	67.82	416.6	728.6	653.0	630.3	22.73	28.733		
4,200.0	4,160.8	4,113.2	4,006.1	11.7	18.8	68.64	428.6	750.6	669.2	645.7	23.55	28.422		
4,300.0	4,258.6	4,211.5	4,101.1	12.1	19.3	69.42	440.7	772.7	685.6	661.2	24.37	28.130		
4,400.0	4,356.4	4,309.7	4,196.1	12.5	19.8	70.16	452.7	794.7	702.0	676.8	25.20	27.854		
4,500.0	4,454.2	4,407.9	4,291.0	12.9	20.4	70.87	464.8	816.7	718.6	692.6	26.04	27.595		
4,600.0	4,552.0	4,506.1	4,386.0	13.3	20.9	71.55	476.8	838.8	735.3	708.4	26.89	27.350		
4,700.0	4,649.9	4,604.4	4,481.0	13.8	21.4	72.20	488.9	860.8	752.1	724.4	27.73	27.118		
4,800.0	4,747.7	4,702.6	4,575.9	14.2	21.9	72.82	500.9	882.9	769.0	740.4	28.59	26.900		
4,858.8	4,805.2	4,760.3	4,631.7	14.4	22.3	73.17	508.0	895.8	778.9	749.9	29.09	26.778		
4,900.0	4,845.6	4,800.8	4,670.9	14.6	22.5	73.53	513.0	904.9	786.0	756.6	29.43	26.705		

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 Pronghorn P-T-17HNB
Project:	SEC.17-T5N-R61W	TVD Reference:	WELL @ 4632.0ft (RKB - 13')
Reference Site:	Pronghorn P-17 Pad Sec.17-T5N-R61W	MD Reference:	WELL @ 4632.0ft (RKB - 13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Pronghorn P-T-17HNB	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 #2 (10-25-12)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-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		
5,000.0	4,944.0	4,899.1	4,765.9	14.9	23.0	74.23	525.0	927.0	803.9	773.7	30.18	26.636		
5,100.0	5,043.0	5,029.7	4,892.8	15.2	23.6	74.78	539.7	953.8	820.9	789.9	30.93	26.539		
5,200.0	5,142.4	5,162.2	5,022.9	15.4	24.0	75.16	551.7	975.8	834.7	803.2	31.56	26.451		
5,300.0	5,242.1	5,295.9	5,155.2	15.6	24.4	75.38	560.9	992.6	845.5	813.4	32.09	26.350		
5,400.0	5,342.0	5,430.5	5,289.1	15.8	24.7	75.43	567.2	1,004.1	853.0	820.5	32.50	26.244		
5,458.0	5,400.0	5,508.8	5,367.3	15.9	24.8	90.31	569.4	1,008.2	855.9	823.2	32.70	26.173		
5,500.0	5,442.0	5,565.7	5,424.2	15.9	24.9	90.24	570.4	1,010.0	857.3	824.4	32.84	26.108		
5,600.0	5,542.0	5,685.5	5,544.0	16.1	25.0	90.21	570.9	1,010.9	857.9	824.7	33.16	25.873		
5,624.2	5,566.2	5,709.7	5,568.2	16.1	25.0	90.21	570.9	1,010.9	857.9	824.7	33.23	25.816		
5,639.1	5,581.1	5,724.6	5,583.1	16.2	25.0	90.21	570.9	1,010.9	857.9	824.6	33.28	25.781		
5,650.0	5,592.0	5,735.5	5,594.0	16.2	25.0	-89.77	570.7	1,010.9	857.9	824.6	33.30	25.761		
5,700.0	5,641.9	5,785.2	5,643.5	16.2	25.1	-89.74	566.8	1,010.9	857.9	824.5	33.37	25.708		
5,750.0	5,691.2	5,834.9	5,692.4	16.2	25.1	-89.71	558.2	1,010.9	857.9	824.5	33.35	25.723		
5,800.0	5,739.5	5,884.5	5,740.2	16.1	25.0	-89.69	545.0	1,010.9	857.9	824.6	33.24	25.806		
5,850.0	5,786.3	5,934.1	5,786.6	16.0	25.0	-89.66	527.4	1,010.9	857.9	824.8	33.06	25.951		
5,900.0	5,831.3	5,983.7	5,831.0	15.9	24.9	-89.64	505.4	1,010.9	857.9	825.1	32.80	26.151		
5,950.0	5,873.9	6,033.2	5,873.1	15.8	24.8	-89.63	479.4	1,010.8	857.8	825.3	32.49	26.400		
6,000.0	5,913.8	6,082.7	5,912.5	15.6	24.6	-89.62	449.4	1,010.8	857.8	825.7	32.14	26.686		
6,050.0	5,950.7	6,132.2	5,948.9	15.4	24.5	-89.61	415.9	1,010.8	857.8	826.0	31.77	26.997		
6,100.0	5,984.2	6,181.7	5,981.9	15.2	24.4	-89.60	379.1	1,010.8	857.8	826.4	31.40	27.318		
6,150.0	6,014.0	6,231.2	6,011.3	15.0	24.2	-89.60	339.3	1,010.8	857.7	826.7	31.04	27.632		
6,200.0	6,039.7	6,280.6	6,036.8	14.8	24.0	-89.60	296.9	1,010.7	857.7	827.0	30.72	27.918		
6,250.0	6,061.3	6,330.1	6,058.1	14.7	23.9	-89.61	252.3	1,010.7	857.6	827.2	30.46	28.157		
6,300.0	6,078.4	6,379.6	6,075.1	14.6	23.8	-89.62	205.9	1,010.7	857.6	827.3	30.27	28.330		
6,350.0	6,091.0	6,429.0	6,087.7	14.5	23.6	-89.63	158.0	1,010.7	857.6	827.4	30.17	28.421		
6,400.0	6,098.9	6,478.5	6,095.6	14.5	23.5	-89.64	109.2	1,010.6	857.5	827.3	30.17	28.419		
6,450.0	6,101.9	6,528.0	6,098.9	14.5	23.5	-89.66	59.8	1,010.6	857.5	827.2	30.28	28.322		
6,457.3	6,102.0	6,535.3	6,099.0	14.5	23.5	-89.67	52.6	1,010.6	857.5	827.2	30.30	28.301		
6,500.0	6,102.0	6,578.0	6,099.0	14.6	23.4	-89.67	9.9	1,010.6	857.4	826.9	30.50	28.111		
6,557.7	6,102.0	6,635.7	6,099.0	14.8	23.4	-89.67	-47.8	1,010.5	857.4	826.5	30.89	27.754		
6,558.2	6,102.0	6,636.2	6,099.0	14.8	23.4	-89.67	-48.3	1,010.5	857.4	826.5	30.90	27.751		
6,600.0	6,102.0	6,678.0	6,099.0	14.9	23.4	-89.67	-90.1	1,010.5	857.4	826.1	31.22	27.460		
6,700.0	6,102.0	6,778.0	6,099.0	15.6	23.5	-89.67	-190.1	1,010.5	857.3	824.9	32.45	26.416		
6,800.0	6,102.0	6,878.0	6,099.0	16.5	23.8	-89.67	-290.1	1,010.4	857.2	823.2	34.07	25.163		
6,900.0	6,102.0	6,978.0	6,099.0	17.5	24.3	-89.67	-390.1	1,010.3	857.2	821.2	36.02	23.796		
7,000.0	6,102.0	7,078.0	6,099.0	18.7	25.0	-89.67	-490.1	1,010.3	857.1	818.9	38.26	22.401		
7,100.0	6,102.0	7,178.0	6,099.0	20.0	25.8	-89.67	-590.1	1,010.2	857.1	816.3	40.74	21.036		
7,200.0	6,102.0	7,278.0	6,099.0	21.3	26.8	-89.67	-690.1	1,010.2	857.0	813.6	43.42	19.736		
7,300.0	6,102.0	7,378.0	6,099.0	22.8	27.9	-89.67	-790.1	1,010.1	857.0	810.7	46.27	18.522		
7,400.0	6,102.0	7,478.0	6,099.0	24.3	29.1	-89.67	-890.1	1,010.1	856.9	807.7	49.25	17.400		
7,500.0	6,102.0	7,578.0	6,099.0	25.9	30.4	-89.67	-990.1	1,010.0	856.8	804.5	52.34	16.371		
7,600.0	6,102.0	7,678.0	6,099.0	27.5	31.7	-89.67	-1,090.1	1,009.9	856.8	801.3	55.53	15.431		
7,700.0	6,102.0	7,778.0	6,099.0	29.2	33.2	-89.67	-1,190.1	1,009.9	856.7	797.9	58.79	14.573		
7,800.0	6,102.0	7,878.0	6,099.0	30.9	34.6	-89.67	-1,290.1	1,009.8	856.7	794.5	62.12	13.790		
7,900.0	6,102.0	7,978.0	6,099.0	32.6	36.2	-89.67	-1,390.1	1,009.8	856.6	791.1	65.51	13.076		
8,000.0	6,102.0	8,078.0	6,099.0	34.3	37.7	-89.67	-1,490.1	1,009.7	856.5	787.6	68.94	12.424		
8,100.0	6,102.0	8,178.0	6,099.0	36.1	39.3	-89.67	-1,590.1	1,009.7	856.5	784.1	72.42	11.827		
8,200.0	6,102.0	8,278.0	6,099.0	37.8	40.9	-89.67	-1,690.1	1,009.6	856.4	780.5	75.93	11.279		
8,300.0	6,102.0	8,378.0	6,099.0	39.6	42.6	-89.67	-1,790.1	1,009.5	856.4	776.9	79.47	10.776		
8,400.0	6,102.0	8,478.0	6,099.0	41.4	44.3	-89.67	-1,890.1	1,009.5	856.3	773.3	83.04	10.312		
8,500.0	6,102.0	8,578.0	6,099.0	43.2	45.9	-89.67	-1,990.1	1,009.4	856.3	769.6	86.64	9.883		
8,600.0	6,102.0	8,678.0	6,099.0	45.0	47.7	-89.67	-2,090.1	1,009.4	856.2	765.9	90.25	9.487		

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 Pronghorn P-T-17HNB
Project:	SEC.17-T5N-R61W	TVD Reference:	WELL @ 4632.0ft (RKB - 13')
Reference Site:	Pronghorn P-17 Pad Sec.17-T5N-R61W	MD Reference:	WELL @ 4632.0ft (RKB - 13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Pronghorn P-T-17HNB	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 #2 (10-25-12)	Offset TVD Reference:	Offset Datum

Offset Design Pronghorn P-17 Pad Sec.17-T5N-R61W - Pronghorn 41-44-17HZ - Wellbore #1 - Plan #3 (SEPT 21, 20												Offset Site Error:	0.0 ft
Survey Program: 0-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	
8,700.0	6,102.0	8,778.0	6,099.0	46.9	49.4	-89.67	-2,190.1	1,009.3	856.1	762.3	93.88	9.119	
8,800.0	6,102.0	8,878.0	6,099.0	48.7	51.1	-89.67	-2,290.1	1,009.3	856.1	758.6	97.53	8.778	
8,900.0	6,102.0	8,978.0	6,099.0	50.5	52.9	-89.67	-2,390.1	1,009.2	856.0	754.8	101.19	8.459	
9,000.0	6,102.0	9,078.0	6,099.0	52.4	54.6	-89.67	-2,490.1	1,009.1	856.0	751.1	104.87	8.162	
9,100.0	6,102.0	9,178.0	6,099.0	54.2	56.4	-89.67	-2,590.1	1,009.1	855.9	747.4	108.55	7.885	
9,200.0	6,102.0	9,278.0	6,099.0	56.1	58.2	-89.67	-2,690.1	1,009.0	855.8	743.6	112.25	7.624	
9,300.0	6,102.0	9,378.0	6,099.0	57.9	60.0	-89.67	-2,790.1	1,009.0	855.8	739.8	115.96	7.380	
9,400.0	6,102.0	9,478.0	6,099.0	59.8	61.8	-89.67	-2,890.1	1,008.9	855.7	736.1	119.67	7.151	
9,500.0	6,102.0	9,578.0	6,099.0	61.7	63.6	-89.67	-2,990.1	1,008.8	855.7	732.3	123.40	6.934	
9,600.0	6,102.0	9,678.0	6,099.0	63.5	65.4	-89.67	-3,090.1	1,008.8	855.6	728.5	127.13	6.730	
9,700.0	6,102.0	9,778.0	6,099.0	65.4	67.2	-89.67	-3,190.1	1,008.7	855.6	724.7	130.87	6.538	
9,800.0	6,102.0	9,878.0	6,099.0	67.3	69.0	-89.67	-3,290.1	1,008.7	855.5	720.9	134.61	6.355	
9,900.0	6,102.0	9,978.0	6,099.0	69.2	70.9	-89.67	-3,390.1	1,008.6	855.4	717.1	138.36	6.183	
10,000.0	6,102.0	10,078.0	6,099.0	71.0	72.7	-89.67	-3,490.1	1,008.6	855.4	713.3	142.11	6.019	
10,100.0	6,102.0	10,178.0	6,099.0	72.9	74.5	-89.67	-3,590.1	1,008.5	855.3	709.5	145.87	5.864	
10,200.0	6,102.0	10,278.0	6,099.0	74.8	76.4	-89.67	-3,690.1	1,008.4	855.3	705.6	149.63	5.716	
10,300.0	6,102.0	10,378.0	6,099.0	76.7	78.2	-89.67	-3,790.1	1,008.4	855.2	701.8	153.40	5.575	
10,400.0	6,102.0	10,478.0	6,099.0	78.6	80.1	-89.66	-3,890.1	1,008.3	855.2	698.0	157.17	5.441	
10,500.0	6,102.0	10,578.0	6,099.0	80.5	81.9	-89.66	-3,990.1	1,008.3	855.1	694.1	160.94	5.313	
10,600.0	6,102.0	10,678.0	6,099.0	82.4	83.8	-89.66	-4,090.1	1,008.2	855.0	690.3	164.72	5.191	
10,700.0	6,102.0	10,778.0	6,099.0	84.3	85.6	-89.66	-4,190.1	1,008.2	855.0	686.5	168.50	5.074	
10,800.0	6,102.0	10,878.0	6,099.0	86.2	87.5	-89.66	-4,290.1	1,008.1	854.9	682.6	172.29	4.962	
10,812.4	6,102.0	10,890.4	6,099.0	86.4	87.7	-89.66	-4,302.5	1,008.1	854.9	682.2	172.76	4.949	
10,904.0	6,102.0	10,979.2	6,099.0	88.1	89.4	-89.66	-4,391.3	1,008.3	855.1	678.9	176.17	4.854 SF	

Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well Pronghorn P-T-17HNB
Project:	SEC.17-T5N-R61W	TVD Reference:	WELL @ 4632.0ft (RKB - 13')
Reference Site:	Pronghorn P-17 Pad Sec.17-T5N-R61W	MD Reference:	WELL @ 4632.0ft (RKB - 13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Pronghorn P-T-17HNB	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 #2 (10-25-12)	Offset TVD Reference:	Offset Datum

Offset Design		Pronghorn P-17 Pad Sec.17-T5N-R61W - Pronghorn 42-17 (Exist.) - Wellbore #1 - Wellbore #1										Offset Site Error:		0.0 ft			
Survey Program: 6100-UNKNOWN														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)						
7,300.0	6,102.0	6,100.0	6,100.0	22.8	122.0	-89.66	-1,519.2	832.7	997.1	852.3	144.74	6.889					
7,400.0	6,102.0	6,100.0	6,100.0	24.3	122.0	-89.66	-1,519.2	832.7	926.4	780.1	146.26	6.334					
7,500.0	6,102.0	6,100.0	6,100.0	25.9	122.0	-89.66	-1,519.2	832.7	861.6	713.7	147.84	5.828					
7,600.0	6,102.0	6,100.0	6,100.0	27.5	122.0	-89.66	-1,519.2	832.7	804.0	654.5	149.46	5.379					
7,700.0	6,102.0	6,100.0	6,100.0	29.2	122.0	-89.66	-1,519.2	832.7	755.3	604.2	151.12	4.998					
7,800.0	6,102.0	6,100.0	6,100.0	30.9	122.0	-89.66	-1,519.2	832.7	717.3	564.5	152.80	4.694					
7,900.0	6,102.0	6,100.0	6,100.0	32.6	122.0	-89.66	-1,519.2	832.7	691.8	537.3	154.52	4.477					
8,000.0	6,102.0	6,100.0	6,100.0	34.3	122.0	-89.66	-1,519.2	832.7	680.2	524.0	156.25	4.353					
8,029.6	6,102.0	6,100.0	6,100.0	34.8	122.0	-89.66	-1,519.2	832.7	679.6	522.8	156.77	4.335 CC, ES					
8,100.0	6,102.0	6,100.0	6,100.0	36.1	122.0	-89.66	-1,519.2	832.7	683.2	525.2	158.01	4.324 SF					
8,200.0	6,102.0	6,100.0	6,100.0	37.8	122.0	-89.66	-1,519.2	832.7	700.6	540.8	159.78	4.385					
8,300.0	6,102.0	6,100.0	6,100.0	39.6	122.0	-89.66	-1,519.2	832.7	731.4	569.8	161.56	4.527					
8,400.0	6,102.0	6,100.0	6,100.0	41.4	122.0	-89.66	-1,519.2	832.7	774.0	610.6	163.36	4.738					
8,500.0	6,102.0	6,100.0	6,100.0	43.2	122.0	-89.66	-1,519.2	832.7	826.5	661.3	165.17	5.004					
8,600.0	6,102.0	6,100.0	6,100.0	45.0	122.0	-89.66	-1,519.2	832.7	887.2	720.3	166.99	5.313					
8,700.0	6,102.0	6,100.0	6,100.0	46.9	122.0	-89.66	-1,519.2	832.7	954.6	785.8	168.81	5.655					

Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well Pronghorn P-T-17HNB
Project:	SEC.17-T5N-R61W	TVD Reference:	WELL @ 4632.0ft (RKB - 13')
Reference Site:	Pronghorn P-17 Pad Sec.17-T5N-R61W	MD Reference:	WELL @ 4632.0ft (RKB - 13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Pronghorn P-T-17HNB	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 #2 (10-25-12)	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
Survey Program: 0-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	0.00	58.3	0.0	58.3	58.3	0.00	N/A		
100.0	100.0	101.0	101.0	0.1	0.1	0.00	58.3	0.0	58.3	58.1	0.23	256.769		
166.3	166.3	167.3	167.3	0.3	0.3	0.00	58.3	0.0	58.3	57.8	0.53	110.989 CC		
200.0	200.0	201.0	201.0	0.3	0.3	0.00	58.3	0.0	58.3	57.6	0.68	86.168 ES		
300.0	300.0	300.0	300.0	0.6	0.6	1.59	58.9	1.6	58.9	57.8	1.12	52.733		
400.0	400.0	399.2	399.1	0.8	0.8	6.08	60.7	6.5	61.1	59.6	1.57	38.986		
500.0	500.0	497.8	497.2	1.0	1.0	12.77	63.8	14.5	65.5	63.5	2.04	32.103		
600.0	600.0	595.6	594.3	1.2	1.3	20.56	68.0	25.5	72.9	70.4	2.54	28.718		
700.0	700.0	692.5	690.1	1.5	1.6	28.31	73.3	39.5	84.0	80.9	3.06	27.469 SF		
800.0	800.0	788.3	784.2	1.7	2.0	35.23	79.7	56.3	99.0	95.4	3.59	27.605		
900.0	900.0	882.7	876.3	1.9	2.4	41.01	87.1	75.7	118.0	113.9	4.12	28.638		
1,000.0	1,000.0	975.7	966.3	2.1	2.9	45.66	95.4	97.6	140.8	136.1	4.66	30.240		
1,100.0	1,100.0	1,067.1	1,053.9	2.4	3.4	49.34	104.5	121.7	167.2	162.0	5.19	32.192		
1,200.0	1,200.0	1,160.1	1,142.4	2.6	3.9	52.31	114.7	148.5	196.6	190.9	5.74	34.258		
1,300.0	1,300.0	1,255.1	1,232.7	2.8	4.5	54.59	125.2	176.1	226.6	220.3	6.28	36.053		
1,400.0	1,400.0	1,350.2	1,323.1	3.0	5.1	56.33	135.7	203.7	256.8	250.0	6.83	37.621		
1,500.0	1,500.0	1,445.2	1,413.5	3.3	5.7	57.70	146.2	231.2	287.2	279.9	7.37	38.985		
1,600.0	1,600.0	1,540.3	1,503.8	3.5	6.3	58.82	156.6	258.8	317.8	309.9	7.91	40.178		
1,700.0	1,700.0	1,635.4	1,594.2	3.7	6.9	59.74	167.1	286.4	348.4	339.9	8.45	41.227		
1,800.0	1,800.0	1,730.4	1,684.6	3.9	7.5	60.51	177.6	314.0	379.1	370.1	8.99	42.157		
1,900.0	1,900.0	1,825.5	1,774.9	4.2	8.1	61.16	188.1	341.6	409.8	400.3	9.53	42.984		
2,000.0	2,000.0	1,920.5	1,865.3	4.4	8.7	61.72	198.6	369.2	440.6	430.5	10.08	43.726		
2,100.0	2,100.0	2,015.9	1,955.9	4.6	9.4	47.00	209.1	396.8	470.3	460.4	9.93	47.379		
2,200.0	2,199.8	2,111.8	2,047.1	4.8	10.0	47.46	219.7	424.7	497.8	487.3	10.44	47.676		
2,300.0	2,299.5	2,208.0	2,138.6	5.1	10.6	48.15	230.3	452.6	523.1	512.2	10.95	47.781		
2,400.0	2,398.7	2,304.6	2,230.4	5.3	11.2	49.06	240.9	480.6	546.4	535.0	11.45	47.710		
2,500.0	2,497.5	2,401.3	2,322.3	5.5	11.9	50.15	251.6	508.7	567.8	555.8	11.96	47.467		
2,599.2	2,594.8	2,497.3	2,413.6	5.8	12.5	51.42	262.2	536.5	587.2	574.7	12.48	47.049		
2,700.0	2,693.4	2,594.8	2,506.3	6.1	13.1	53.04	272.9	564.8	606.3	593.3	13.03	46.533		
2,800.0	2,791.3	2,691.6	2,598.2	6.4	13.7	54.55	283.6	592.9	625.8	612.2	13.60	46.001		
2,900.0	2,889.1	2,788.4	2,690.2	6.7	14.4	55.98	294.3	621.0	645.6	631.4	14.20	45.456		
3,000.0	2,986.9	2,885.1	2,782.2	7.1	15.0	57.32	304.9	649.1	665.8	650.9	14.83	44.904		
3,100.0	3,084.7	2,981.9	2,874.2	7.4	15.6	58.58	315.6	677.1	686.3	670.8	15.47	44.352		
3,200.0	3,182.5	3,078.6	2,966.1	7.8	16.3	59.77	326.3	705.2	707.1	691.0	16.14	43.803		
3,300.0	3,280.4	3,175.4	3,058.1	8.1	16.9	60.89	336.9	733.3	728.3	711.4	16.83	43.264		
3,400.0	3,378.2	3,272.1	3,150.1	8.5	17.5	61.95	347.6	761.4	749.6	732.1	17.54	42.736		
3,500.0	3,476.0	3,368.9	3,242.1	8.9	18.1	62.96	358.3	789.4	771.2	753.0	18.27	42.224		
3,600.0	3,573.8	3,465.6	3,334.0	9.3	18.8	63.91	368.9	817.5	793.1	774.1	19.01	41.728		
3,700.0	3,671.6	3,562.4	3,426.0	9.7	19.4	64.80	379.6	845.6	815.1	795.3	19.76	41.250		
3,800.0	3,769.5	3,659.1	3,518.0	10.1	20.0	65.66	390.3	873.6	837.3	816.8	20.53	40.792		
3,900.0	3,867.3	3,755.9	3,609.9	10.5	20.7	66.46	400.9	901.7	859.7	838.4	21.30	40.352		
4,000.0	3,965.1	3,852.6	3,701.9	10.9	21.3	67.23	411.6	929.8	882.2	860.1	22.09	39.932		
4,100.0	4,062.9	3,949.4	3,793.9	11.3	21.9	67.96	422.3	957.9	904.9	882.0	22.89	39.530		
4,200.0	4,160.8	4,046.1	3,885.9	11.7	22.6	68.66	432.9	985.9	927.7	904.0	23.70	39.147		
4,300.0	4,258.6	4,142.9	3,977.8	12.1	23.2	69.32	443.6	1,014.0	950.7	926.2	24.51	38.782		
4,400.0	4,356.4	4,239.6	4,069.8	12.5	23.8	69.95	454.3	1,042.1	973.7	948.4	25.33	38.435		
4,500.0	4,454.2	4,336.4	4,161.8	12.9	24.4	70.55	464.9	1,070.2	996.9	970.7	26.16	38.104		

Reference Depths are relative to WELL @ 4632.0ft (RKB - 13')	Coordinates are relative to: Pronghorn P-T-17HNB
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: 0.82°



Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well Pronghorn P-T-17HNB
Project:	SEC.17-T5N-R61W	TVD Reference:	WELL @ 4632.0ft (RKB - 13')
Reference Site:	Pronghorn P-17 Pad Sec.17-T5N-R61W	MD Reference:	WELL @ 4632.0ft (RKB - 13')
Site Error:	0.0ft	North Reference:	True
Reference Well:	Pronghorn P-T-17HNB	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 #2 (10-25-12)	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 4632.0ft (RKB - 13')
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000 °

Coordinates are relative to: Pronghorn P-T-17HNB
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.82°

