

BONANZA CREEK ENERGY OPERATING

Well Name: **ANTELOPE P-T-17HZ**

Surface Location: ANTELOPE P-T-17HZ PAD SEC17-T5N-R62W
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone

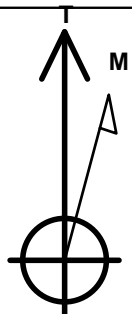
Ground Elevation: 4694.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1392656.12	3322279.31	40.405470	-104.342720	

Original Well Elev WELL @ 4709.0ft (Original Well Elev)

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
HARDLINE BH 460'	1.0	-4317.1	-71.3	Polygon
HARDLINE SH 460'	1.0	0.0	-300.0	Polygon
BHL 460'FSL & 1000'FEL	6402.0	-4317.1	328.7	Point
TARGET 1 460'FNL & 1000'FEL	6402.0	14.6	406.6	Point



Azimuths to True North
Magnetic North: 8.52°

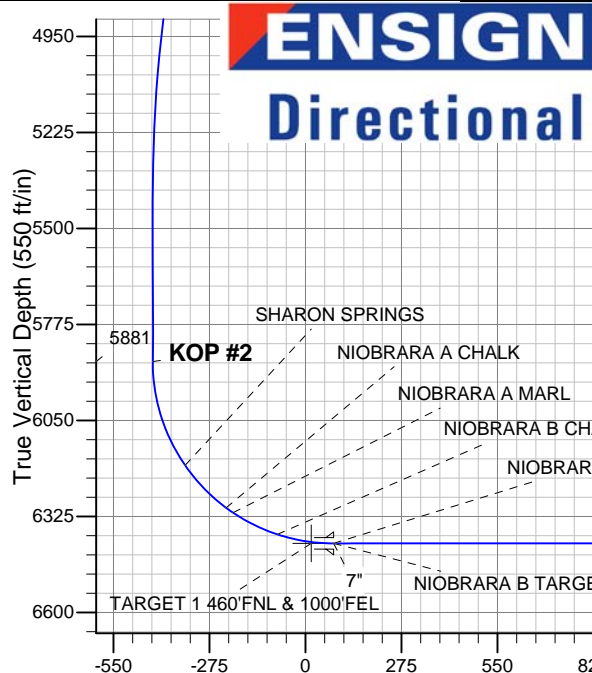
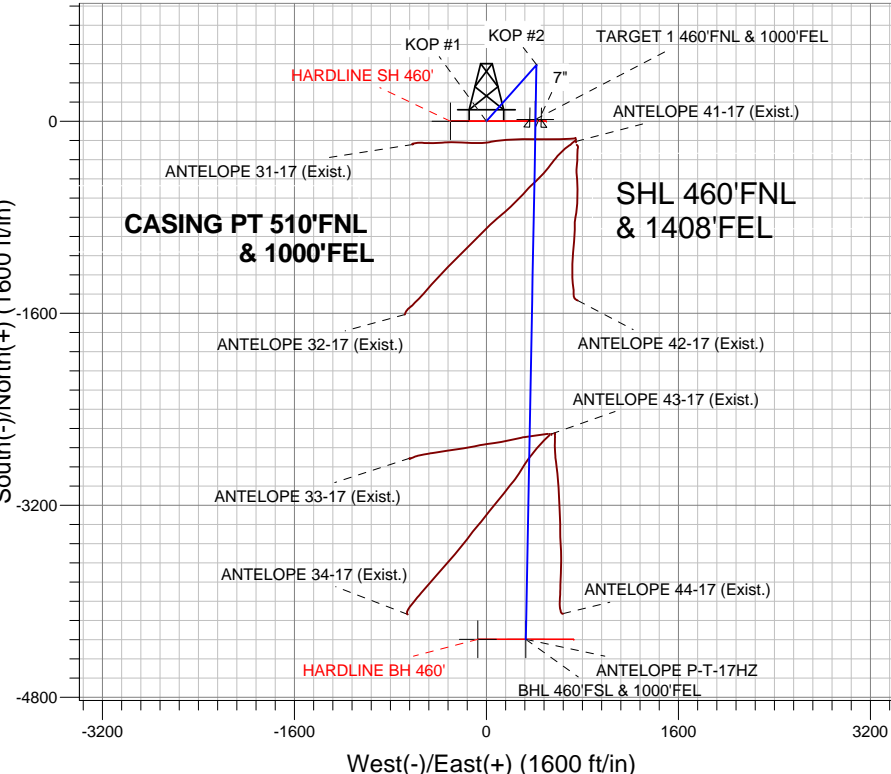
Magnetic Field
Strength: 53091.4nT
Dip Angle: 67.10°
Date: 4/17/2012
Model: IGRF2010

ANTELOPE P-T-17HZ PAD SEC17-T5N-R62W
ANTELOPE P-T-17HZ
PLAN 1 (APRIL 17, 2012)
14:05, April 19 2012

ANNOTATIONS

TVD	MD	Annotation
1000.0	1000.0	KOP #1
5881.1	5929.1	KOP #2

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	1000.0	0.00	0.00	1000.0	0.0	0.0	0.00	0.00	0.0	
3	1453.1	9.06	41.58	1451.2	26.8	23.7	2.00	41.58	-24.9	
4	4994.9	9.06	41.58	4948.8	444.0	394.0	0.00	0.00	-412.9	
5	5448.0	0.00	0.00	5400.0	470.8	417.7	2.00	180.00	-437.7	
6	5929.1	0.00	0.00	5881.1	470.8	417.7	0.00	0.00	-437.7	
7	6747.3	90.00	181.07	6402.0	-50.0	408.0	11.00	181.07	80.8	
8	11015.1	90.00	181.07	6402.0	-4317.1	328.7	0.00	0.00	4329.6	BHL 460'FSL & 1000'FEL

Vertical Section at 175.65° (550 ft/in)



BONANZA CREEK ENERGY OPERATING

SEC.17-T5N-R62W

ANTELOPE P-T-17HZ PAD SEC17-T5N-R62W

ANTELOPE P-T-17HZ

Wellbore #1

Plan: PLAN 1 (APRIL 17, 2012)

Standard Planning Report

19 April, 2012

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	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,453.1	9.06	41.58	1,451.2	26.8	23.7	2.00	2.00	0.00	41.58	
4,994.9	9.06	41.58	4,948.8	444.0	394.0	0.00	0.00	0.00	0.00	
5,448.0	0.00	0.00	5,400.0	470.8	417.7	2.00	-2.00	0.00	180.00	
5,929.1	0.00	0.00	5,881.1	470.8	417.7	0.00	0.00	0.00	0.00	
6,747.3	90.00	181.07	6,402.0	-50.0	408.0	11.00	11.00	0.00	181.07	
11,015.1	90.00	181.07	6,402.0	-4,317.1	328.7	0.00	0.00	0.00	0.00	BHL 460'FSL & 100'

Database:	Landmark	Local Co-ordinate Reference:	Well ANTELOPE P-T-17HZ
Company:	BONANZA CREEK ENERGY OPERATING	TVD Reference:	WELL @ 4709.0ft (Original Well Elev)
Project:	SEC.17-T5N-R62W	MD Reference:	WELL @ 4709.0ft (Original Well Elev)
Site:	ANTELOPE P-T-17HZ PAD	North Reference:	True
	SEC17-T5N-R62W		
Well:	ANTELOPE P-T-17HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PLAN 1 (APRIL 17, 2012)		

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
1.0	0.00	0.00	1.0	0.0	0.0	0.0	0.00	0.00	0.00
HARDLINE SH 460' - HARDLINE BH 460'									
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
KOP #1									
1,100.0	2.00	41.58	1,100.0	1.3	1.2	-1.2	2.00	2.00	0.00
1,200.0	4.00	41.58	1,199.8	5.2	4.6	-4.9	2.00	2.00	0.00
1,300.0	6.00	41.58	1,299.5	11.7	10.4	-10.9	2.00	2.00	0.00
1,400.0	8.00	41.58	1,398.7	20.9	18.5	-19.4	2.00	2.00	0.00
1,453.1	9.06	41.58	1,451.2	26.8	23.7	-24.9	2.00	2.00	0.00
1,500.0	9.06	41.58	1,497.5	32.3	28.6	-30.0	0.00	0.00	0.00
1,600.0	9.06	41.58	1,596.3	44.1	39.1	-41.0	0.00	0.00	0.00
1,700.0	9.06	41.58	1,695.0	55.8	49.5	-51.9	0.00	0.00	0.00
1,800.0	9.06	41.58	1,793.8	67.6	60.0	-62.9	0.00	0.00	0.00
1,900.0	9.06	41.58	1,892.5	79.4	70.4	-73.8	0.00	0.00	0.00
2,000.0	9.06	41.58	1,991.3	91.2	80.9	-84.8	0.00	0.00	0.00
2,100.0	9.06	41.58	2,090.0	103.0	91.4	-95.7	0.00	0.00	0.00
2,200.0	9.06	41.58	2,188.8	114.7	101.8	-106.7	0.00	0.00	0.00
2,300.0	9.06	41.58	2,287.5	126.5	112.3	-117.6	0.00	0.00	0.00
2,400.0	9.06	41.58	2,386.3	138.3	122.7	-128.6	0.00	0.00	0.00
2,500.0	9.06	41.58	2,485.0	150.1	133.2	-139.6	0.00	0.00	0.00
2,600.0	9.06	41.58	2,583.8	161.9	143.6	-150.5	0.00	0.00	0.00
2,700.0	9.06	41.58	2,682.5	173.7	154.1	-161.5	0.00	0.00	0.00
2,800.0	9.06	41.58	2,781.3	185.4	164.5	-172.4	0.00	0.00	0.00
2,900.0	9.06	41.58	2,880.1	197.2	175.0	-183.4	0.00	0.00	0.00
3,000.0	9.06	41.58	2,978.8	209.0	185.4	-194.3	0.00	0.00	0.00
3,100.0	9.06	41.58	3,077.6	220.8	195.9	-205.3	0.00	0.00	0.00
3,200.0	9.06	41.58	3,176.3	232.6	206.3	-216.2	0.00	0.00	0.00
3,300.0	9.06	41.58	3,275.1	244.4	216.8	-227.2	0.00	0.00	0.00
3,400.0	9.06	41.58	3,373.8	256.1	227.2	-238.1	0.00	0.00	0.00
3,477.2	9.06	41.58	3,450.0	265.2	235.3	-246.6	0.00	0.00	0.00
PARKMAN									
3,500.0	9.06	41.58	3,472.6	267.9	237.7	-249.1	0.00	0.00	0.00
3,600.0	9.06	41.58	3,571.3	279.7	248.2	-260.1	0.00	0.00	0.00
3,700.0	9.06	41.58	3,670.1	291.5	258.6	-271.0	0.00	0.00	0.00
3,800.0	9.06	41.58	3,768.8	303.3	269.1	-282.0	0.00	0.00	0.00
3,900.0	9.06	41.58	3,867.6	315.0	279.5	-292.9	0.00	0.00	0.00
3,958.2	9.06	41.58	3,925.0	321.9	285.6	-299.3	0.00	0.00	0.00
SUSSEX									
4,000.0	9.06	41.58	3,966.3	326.8	290.0	-303.9	0.00	0.00	0.00
4,100.0	9.06	41.58	4,065.1	338.6	300.4	-314.8	0.00	0.00	0.00
4,200.0	9.06	41.58	4,163.8	350.4	310.9	-325.8	0.00	0.00	0.00
4,300.0	9.06	41.58	4,262.6	362.2	321.3	-336.7	0.00	0.00	0.00
4,400.0	9.06	41.58	4,361.3	374.0	331.8	-347.7	0.00	0.00	0.00

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	SEC17-T5N-R62W		
Well:	ANTELOPE P-T-17HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PLAN 1 (APRIL 17, 2012)		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,500.0	9.06	41.58	4,460.1	385.7	342.2	-358.6	0.00	0.00	0.00
4,600.0	9.06	41.58	4,558.8	397.5	352.7	-369.6	0.00	0.00	0.00
4,700.0	9.06	41.58	4,657.6	409.3	363.1	-380.6	0.00	0.00	0.00
4,800.0	9.06	41.58	4,756.3	421.1	373.6	-391.5	0.00	0.00	0.00
4,900.0	9.06	41.58	4,855.1	432.9	384.1	-402.5	0.00	0.00	0.00
4,994.9	9.06	41.58	4,948.8	444.0	394.0	-412.9	0.00	0.00	0.00
5,000.0	8.96	41.58	4,953.8	444.7	394.5	-413.4	2.00	-2.00	0.00
5,100.0	6.96	41.58	5,052.9	455.0	403.7	-423.1	2.00	-2.00	0.00
5,200.0	4.96	41.58	5,152.3	462.8	410.6	-430.3	2.00	-2.00	0.00
5,300.0	2.96	41.58	5,252.1	467.9	415.2	-435.1	2.00	-2.00	0.00
5,400.0	0.96	41.58	5,352.0	470.5	417.4	-437.5	2.00	-2.00	0.00
5,448.0	0.00	0.00	5,400.0	470.8	417.7	-437.7	2.00	-2.00	0.00
5,500.0	0.00	0.00	5,452.0	470.8	417.7	-437.7	0.00	0.00	0.00
5,600.0	0.00	0.00	5,552.0	470.8	417.7	-437.7	0.00	0.00	0.00
5,700.0	0.00	0.00	5,652.0	470.8	417.7	-437.7	0.00	0.00	0.00
5,800.0	0.00	0.00	5,752.0	470.8	417.7	-437.7	0.00	0.00	0.00
5,900.0	0.00	0.00	5,852.0	470.8	417.7	-437.7	0.00	0.00	0.00
5,929.1	0.00	0.00	5,881.1	470.8	417.7	-437.7	0.00	0.00	0.00
KOP #2									
6,000.0	7.80	181.07	5,951.8	466.0	417.6	-432.9	11.00	11.00	0.00
6,100.0	18.80	181.07	6,049.0	443.0	417.2	-410.1	11.00	11.00	0.00
6,200.0	29.80	181.07	6,140.0	401.9	416.4	-369.2	11.00	11.00	0.00
6,245.0	34.75	181.07	6,178.0	377.9	416.0	-345.3	11.00	11.00	0.00
SHARON SPRINGS									
6,300.0	40.80	181.07	6,221.5	344.3	415.3	-311.7	11.00	11.00	0.00
6,400.0	51.80	181.07	6,290.4	272.1	414.0	-239.9	11.00	11.00	0.00
6,415.8	53.53	181.07	6,300.0	259.6	413.8	-227.4	11.00	11.00	0.00
NIORARA A CHALK									
6,440.1	56.21	181.07	6,314.0	239.7	413.4	-207.6	11.00	11.00	0.00
NIORARA A MARL									
6,500.0	62.80	181.07	6,344.4	188.1	412.4	-156.2	11.00	11.00	0.00
6,582.0	71.82	181.07	6,376.0	112.5	411.0	-81.0	11.00	11.00	0.00
NIORARA B CHALK									
6,600.0	73.80	181.07	6,381.3	95.3	410.7	-63.9	11.00	11.00	0.00
6,683.4	82.97	181.07	6,398.1	13.8	409.2	17.3	11.00	11.00	0.00
TARGET 1 460'FNL & 1000'FEL									
6,700.0	84.80	181.07	6,399.9	-2.8	408.9	33.8	11.00	11.00	0.00
6,747.3	90.00	181.07	6,402.0	-50.0	408.0	80.8	11.00	11.00	0.00
NIORARA B TARGET - NIOBRARA B MARL - 7"									
6,800.0	90.00	181.07	6,402.0	-102.7	407.0	133.3	0.00	0.00	0.00
6,900.0	90.00	181.07	6,402.0	-202.7	405.2	232.8	0.00	0.00	0.00
7,000.0	90.00	181.07	6,402.0	-302.6	403.3	332.4	0.00	0.00	0.00
7,100.0	90.00	181.07	6,402.0	-402.6	401.5	431.9	0.00	0.00	0.00
7,200.0	90.00	181.07	6,402.0	-502.6	399.6	531.5	0.00	0.00	0.00
7,300.0	90.00	181.07	6,402.0	-602.6	397.7	631.0	0.00	0.00	0.00
7,400.0	90.00	181.07	6,402.0	-702.6	395.9	730.6	0.00	0.00	0.00
7,500.0	90.00	181.07	6,402.0	-802.6	394.0	830.2	0.00	0.00	0.00
7,600.0	90.00	181.07	6,402.0	-902.5	392.2	929.7	0.00	0.00	0.00
7,700.0	90.00	181.07	6,402.0	-1,002.5	390.3	1,029.3	0.00	0.00	0.00
7,800.0	90.00	181.07	6,402.0	-1,102.5	388.5	1,128.8	0.00	0.00	0.00
7,900.0	90.00	181.07	6,402.0	-1,202.5	386.6	1,228.4	0.00	0.00	0.00
8,000.0	90.00	181.07	6,402.0	-1,302.5	384.7	1,327.9	0.00	0.00	0.00

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Project:	SEC.17-T5N-R62W	MD Reference:	WELL @ 4709.0ft (Original Well Elev)
Site:	ANTELOPE P-T-17HZ PAD	North Reference:	True
	SEC17-T5N-R62W		
Well:	ANTELOPE P-T-17HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PLAN 1 (APRIL 17, 2012)		

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)
8,100.0	90.00	181.07	6,402.0	-1,402.5	382.9	1,427.5	0.00	0.00	0.00
8,200.0	90.00	181.07	6,402.0	-1,502.4	381.0	1,527.0	0.00	0.00	0.00
8,300.0	90.00	181.07	6,402.0	-1,602.4	379.2	1,626.6	0.00	0.00	0.00
8,400.0	90.00	181.07	6,402.0	-1,702.4	377.3	1,726.1	0.00	0.00	0.00
8,500.0	90.00	181.07	6,402.0	-1,802.4	375.4	1,825.7	0.00	0.00	0.00
8,600.0	90.00	181.07	6,402.0	-1,902.4	373.6	1,925.2	0.00	0.00	0.00
8,700.0	90.00	181.07	6,402.0	-2,002.3	371.7	2,024.8	0.00	0.00	0.00
8,800.0	90.00	181.07	6,402.0	-2,102.3	369.9	2,124.3	0.00	0.00	0.00
8,900.0	90.00	181.07	6,402.0	-2,202.3	368.0	2,223.9	0.00	0.00	0.00
9,000.0	90.00	181.07	6,402.0	-2,302.3	366.1	2,323.4	0.00	0.00	0.00
9,100.0	90.00	181.07	6,402.0	-2,402.3	364.3	2,423.0	0.00	0.00	0.00
9,200.0	90.00	181.07	6,402.0	-2,502.3	362.4	2,522.6	0.00	0.00	0.00
9,300.0	90.00	181.07	6,402.0	-2,602.2	360.6	2,622.1	0.00	0.00	0.00
9,400.0	90.00	181.07	6,402.0	-2,702.2	358.7	2,721.7	0.00	0.00	0.00
9,500.0	90.00	181.07	6,402.0	-2,802.2	356.9	2,821.2	0.00	0.00	0.00
9,600.0	90.00	181.07	6,402.0	-2,902.2	355.0	2,920.8	0.00	0.00	0.00
9,700.0	90.00	181.07	6,402.0	-3,002.2	353.1	3,020.3	0.00	0.00	0.00
9,800.0	90.00	181.07	6,402.0	-3,102.2	351.3	3,119.9	0.00	0.00	0.00
9,900.0	90.00	181.07	6,402.0	-3,202.1	349.4	3,219.4	0.00	0.00	0.00
10,000.0	90.00	181.07	6,402.0	-3,302.1	347.6	3,319.0	0.00	0.00	0.00
10,100.0	90.00	181.07	6,402.0	-3,402.1	345.7	3,418.5	0.00	0.00	0.00
10,200.0	90.00	181.07	6,402.0	-3,502.1	343.8	3,518.1	0.00	0.00	0.00
10,300.0	90.00	181.07	6,402.0	-3,602.1	342.0	3,617.6	0.00	0.00	0.00
10,400.0	90.00	181.07	6,402.0	-3,702.1	340.1	3,717.2	0.00	0.00	0.00
10,500.0	90.00	181.07	6,402.0	-3,802.0	338.3	3,816.7	0.00	0.00	0.00
10,600.0	90.00	181.07	6,402.0	-3,902.0	336.4	3,916.3	0.00	0.00	0.00
10,700.0	90.00	181.07	6,402.0	-4,002.0	334.5	4,015.9	0.00	0.00	0.00
10,800.0	90.00	181.07	6,402.0	-4,102.0	332.7	4,115.4	0.00	0.00	0.00
10,900.0	90.00	181.07	6,402.0	-4,202.0	330.8	4,215.0	0.00	0.00	0.00
11,000.0	90.00	181.07	6,402.0	-4,302.0	329.0	4,314.5	0.00	0.00	0.00
11,015.1	90.00	181.07	6,402.0	-4,317.1	328.7	4,329.6	0.00	0.00	0.00

BHL 460'FSL & 1000'FEL

Database:	Landmark	Local Co-ordinate Reference:	Well ANTELOPE P-T-17HZ
Company:	BONANZA CREEK ENERGY OPERATING	TVD Reference:	WELL @ 4709.0ft (Original Well Elev)
Project:	SEC.17-T5N-R62W	MD Reference:	WELL @ 4709.0ft (Original Well Elev)
Site:	ANTELOPE P-T-17HZ PAD	North Reference:	True
Well:	ANTELOPE P-T-17HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PLAN 1 (APRIL 17, 2012)		

Targets									
Target Name	- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	
- Shape		(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	Latitude Longitude
TARGET 1 460'FNL 8		0.00	0.00	6,402.0	14.6	406.6	1,392,676.01	3,322,685.68	40.405510 -104.341260
- plan misses target center by 4.8ft at 6683.4ft MD (6398.1 TVD, 13.8 N, 409.2 E)									
- Point									
HARDLINE SH 460'		0.00	0.00	1.0	0.0	-300.0	1,392,652.21	3,321,979.35	40.405470 -104.343797
- plan misses target center by 300.0ft at 1.0ft MD (1.0 TVD, 0.0 N, 0.0 E)									
- Polygon									
Point 1				1.0	0.0	0.0	1,392,652.21	3,321,979.35	
Point 2				1.0	0.0	800.0	1,392,662.65	3,322,779.25	
HARDLINE BH 460'		0.00	0.00	1.0	-4,317.1	-71.3	1,388,338.64	3,322,264.36	40.393620 -104.342976
- plan misses target center by 4317.7ft at 1.0ft MD (1.0 TVD, 0.0 N, 0.0 E)									
- Polygon									
Point 1				1.0	0.0	0.0	1,388,338.64	3,322,264.36	
Point 2				1.0	0.0	800.0	1,388,349.08	3,323,064.26	
BHL 460'FSL & 1000'I		0.00	0.00	6,402.0	-4,317.1	328.7	1,388,343.87	3,322,664.29	40.393620 -104.341540
- plan hits target center									
- Point									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
6,747.3	6,402.0	7"	7	7-1/2	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,477.2	3,450.0	PARKMAN		0.00		
3,958.2	3,925.0	SUSSEX		0.00		
6,245.0	6,178.0	SHARON SPRINGS		0.00		
6,415.8	6,300.0	NIOBRARA A CHALK		0.00		
6,440.1	6,314.0	NIOBRARA A MARL		0.00		
6,582.0	6,376.0	NIOBRARA B CHALK		0.00		
6,747.3	6,402.0	NIOBRARA B TARGET		0.00		
6,747.3	6,402.0	NIOBRARA B MARL		0.00		

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
1,000.0	1,000.0	0.0	0.0	KOP #1	
5,929.1	5,881.1	470.8	417.7	KOP #2	



BONANZA CREEK ENERGY OPERATING

SEC.17-T5N-R62W

ANTELOPE P-T-17HZ PAD SEC17-T5N-R62W

ANTELOPE P-T-17HZ

Wellbore #1

PLAN 1 (APRIL 17, 2012)

Anticollision Report

19 April, 2012

ANTELOPE P-T-17HZ PAD SEC17-T5N-R62W - ANTELOPE 31-17 (Exist.) - Wellbore #1 - Wellbore #1													Offset Site Error:	0.0 ft
Survey Program: 561-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)			
1,100.0	1,100.0	1,357.7	1,338.9	2.4	3.7	63.33	-149.1	594.1	652.1	646.9	5.14	126.836		
1,200.0	1,199.8	1,457.6	1,431.8	2.6	4.4	65.48	-149.3	557.4	614.3	608.6	5.73	107.251		
1,300.0	1,299.5	1,544.0	1,512.2	2.8	5.0	67.95	-149.4	525.8	575.7	569.5	6.29	91.559		
1,400.0	1,398.7	1,627.9	1,590.5	3.1	5.5	70.94	-149.7	495.8	537.5	530.6	6.89	77.990		
1,453.1	1,451.2	1,672.3	1,632.2	3.2	5.8	72.75	-149.8	480.3	517.6	510.3	7.25	71.414		
1,500.0	1,497.5	1,711.9	1,669.5	3.3	6.1	74.10	-149.6	466.8	500.3	492.8	7.57	66.122		
1,600.0	1,596.3	1,797.3	1,749.9	3.6	6.6	77.22	-149.1	438.3	465.2	456.9	8.30	56.025		
1,700.0	1,695.0	1,881.7	1,829.7	3.9	7.1	80.71	-148.9	410.9	432.7	423.6	9.11	47.478		
1,800.0	1,793.8	1,970.5	1,913.9	4.2	7.7	84.82	-148.7	382.8	403.1	393.1	10.03	40.181		
1,900.0	1,892.5	2,062.8	2,001.5	4.5	8.3	89.74	-148.9	353.3	375.9	364.8	11.09	33.896		
2,000.0	1,991.3	2,151.8	2,085.6	4.9	8.9	95.20	-149.6	324.3	351.9	339.7	12.22	28.793		
2,100.0	2,090.0	2,239.2	2,168.6	5.2	9.4	100.98	-149.9	296.9	332.4	319.0	13.37	24.861		
2,200.0	2,188.8	2,332.7	2,257.3	5.5	10.0	107.74	-150.3	267.5	317.5	302.9	14.61	21.738		
2,300.0	2,287.5	2,421.7	2,341.6	5.9	10.6	114.73	-150.7	238.8	307.5	291.7	15.78	19.485		
2,400.0	2,386.3	2,509.5	2,424.9	6.2	11.1	121.72	-151.2	211.4	303.9	287.0	16.86	18.025		
2,402.2	2,388.5	2,511.4	2,426.8	6.2	11.1	121.88	-151.2	210.8	303.9	287.0	16.88	18.001	CC, ES	
2,500.0	2,485.0	2,596.2	2,507.0	6.6	11.7	128.88	-153.0	183.3	307.4	289.6	17.81	17.256		
2,600.0	2,583.8	2,685.7	2,592.1	6.9	12.2	135.81	-155.4	155.6	317.5	298.9	18.62	17.054	SF	
2,700.0	2,682.5	2,773.2	2,675.5	7.3	12.8	141.99	-157.7	129.4	332.9	313.7	19.27	17.278		
2,800.0	2,781.3	2,857.3	2,755.0	7.6	13.3	147.74	-161.4	102.3	354.6	334.8	19.80	17.912		
2,900.0	2,880.1	2,947.0	2,839.7	8.0	13.9	153.21	-165.8	73.2	380.8	360.6	20.25	18.809		
3,000.0	2,978.8	3,039.3	2,927.3	8.3	14.5	158.04	-170.2	44.3	409.8	389.1	20.63	19.865		
3,100.0	3,077.6	3,130.1	3,013.9	8.7	15.0	161.99	-174.9	17.4	440.8	419.8	20.98	21.013		
3,200.0	3,176.3	3,220.3	3,099.4	9.1	15.6	165.64	-178.9	-10.8	473.9	452.6	21.29	22.252		
3,300.0	3,275.1	3,323.1	3,196.8	9.4	16.3	169.49	-181.0	-43.9	507.2	485.6	21.61	23.467		
3,400.0	3,373.8	3,422.4	3,291.7	9.8	16.9	172.53	-182.3	-73.2	539.9	518.0	21.95	24.597		
3,500.0	3,472.6	3,518.0	3,382.9	10.1	17.4	175.22	-182.5	-101.6	573.1	550.8	22.29	25.716		
3,600.0	3,571.3	3,609.7	3,470.0	10.5	18.0	177.79	-179.8	-130.2	606.1	583.5	22.63	26.780		
3,700.0	3,670.1	3,676.0	3,532.2	10.9	18.4	179.66	-177.8	-153.1	642.2	619.3	22.96	27.972		
3,800.0	3,768.8	3,751.4	3,602.2	11.2	19.0	-178.31	-176.5	-181.0	681.9	658.6	23.33	29.233		
3,900.0	3,867.6	3,832.4	3,677.1	11.6	19.6	-176.37	-176.4	-211.9	724.1	700.4	23.71	30.536		
4,000.0	3,966.3	3,928.6	3,766.2	11.9	20.4	-174.33	-176.5	-248.2	767.0	742.9	24.14	31.775		
4,100.0	4,065.1	4,027.8	3,858.6	12.3	21.1	-172.51	-176.0	-284.2	809.1	784.5	24.58	32.915		
4,200.0	4,163.8	4,127.3	3,952.1	12.7	21.8	-170.99	-176.0	-318.4	850.6	825.6	25.04	33.970		
4,300.0	4,262.6	4,223.2	4,042.7	13.0	22.4	-169.80	-176.8	-349.6	891.5	866.0	25.49	34.971		
4,400.0	4,361.3	4,343.7	4,157.9	13.4	23.1	-168.72	-179.9	-384.8	931.2	905.2	26.01	35.803		
4,500.0	4,460.1	4,455.4	4,265.6	13.8	23.7	-167.85	-181.2	-414.7	968.2	941.7	26.50	36.533		

Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well ANTELOPE P-T-17HZ
Project:	SEC.17-T5N-R62W	TVD Reference:	WELL @ 4709.0ft (Original Well Elev)
Reference Site:	ANTELOPE P-T-17HZ PAD SEC17-T5N-R62W	MD Reference:	WELL @ 4709.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	ANTELOPE P-T-17HZ	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 (APRIL 17, 2012)	Offset TVD Reference:	Offset Datum

Offset Design ANTELOPE P-T-17HZ PAD SEC17-T5N-R62W - ANTELOPE 32-17 (Exist.) - Wellbore #1 - Wellbore #1											Offset Site Error: 0.0 ft		
Survey Program: 561-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	13.3	13.3	0.0	0.0	101.58	-153.0	746.4	761.9	761.9	0.02	N/A	
100.0	100.0	115.2	115.2	0.1	0.1	101.61	-153.3	746.2	761.7	761.5	0.24	3,126.091	
200.0	200.0	217.1	217.1	0.3	0.3	101.67	-154.0	745.6	761.3	760.7	0.58	1,302.656	
300.0	300.0	319.0	319.0	0.6	0.4	101.78	-155.2	744.6	760.7	759.7	0.93	822.151	
400.0	400.0	420.9	420.9	0.8	0.5	101.92	-156.9	743.3	759.8	758.5	1.27	600.129	
500.0	500.0	522.8	522.7	1.0	0.6	102.10	-159.0	741.7	758.6	757.0	1.61	472.130	
600.0	600.0	631.6	631.4	1.2	0.8	102.37	-162.1	739.1	756.9	754.9	2.04	370.798	
700.0	700.0	757.7	757.3	1.5	1.1	102.90	-167.8	732.6	752.9	750.3	2.57	293.495	
800.0	800.0	875.6	874.4	1.7	1.5	103.65	-175.4	722.0	745.5	742.5	3.08	242.063	
900.0	900.0	991.3	988.7	1.9	1.9	104.82	-187.4	708.5	736.8	733.2	3.61	204.319	
1,000.0	1,000.0	1,131.4	1,125.5	2.1	2.5	106.70	-205.5	684.9	723.8	719.6	4.22	171.514	
1,100.0	1,100.0	1,220.0	1,211.3	2.4	2.9	66.98	-218.8	667.3	708.4	703.3	5.10	139.005	
1,200.0	1,199.8	1,328.7	1,315.6	2.6	3.5	69.90	-238.5	643.8	691.8	685.9	5.87	117.911	
1,300.0	1,299.5	1,413.7	1,396.4	2.8	4.0	72.84	-256.6	624.4	675.3	668.7	6.59	102.434	
1,400.0	1,398.7	1,501.0	1,478.6	3.1	4.5	76.37	-277.7	603.9	660.5	653.1	7.41	89.083	
1,453.1	1,451.2	1,544.2	1,519.0	3.2	4.8	78.32	-289.1	593.5	653.8	645.9	7.87	83.060	
1,500.0	1,497.5	1,580.1	1,552.4	3.3	5.1	79.90	-299.0	585.0	648.8	640.6	8.26	78.519	
1,600.0	1,596.3	1,661.9	1,628.2	3.6	5.6	83.63	-322.7	565.5	641.9	632.7	9.18	69.909	
1,692.2	1,687.3	1,734.4	1,695.1	3.9	6.2	87.04	-344.6	548.1	639.6	629.5	10.03	63.737 CC	
1,700.0	1,695.0	1,740.4	1,700.6	3.9	6.2	87.33	-346.5	546.7	639.6	629.5	10.11	63.289 ES	
1,800.0	1,793.8	1,825.3	1,778.4	4.2	6.9	91.42	-373.6	526.3	642.6	631.5	11.09	57.962	
1,900.0	1,892.5	1,918.4	1,863.1	4.5	7.6	95.97	-403.5	502.0	649.0	636.9	12.11	53.592	
2,000.0	1,991.3	2,006.2	1,942.8	4.9	8.2	100.24	-431.6	477.9	659.3	646.3	13.05	50.523	
2,100.0	2,090.0	2,099.1	2,027.1	5.2	8.9	104.64	-460.6	451.8	673.3	659.3	13.96	48.217	
2,200.0	2,188.8	2,192.0	2,110.5	5.5	9.7	109.08	-489.3	422.6	690.0	675.2	14.88	46.385	
2,300.0	2,287.5	2,270.9	2,180.3	5.9	10.4	112.87	-514.2	395.5	710.8	695.1	15.71	45.237	
2,400.0	2,386.3	2,340.6	2,241.4	6.2	11.1	116.15	-537.0	371.0	736.6	720.2	16.46	44.750 SF	
2,500.0	2,485.0	2,399.8	2,293.1	6.6	11.6	118.82	-557.3	350.6	767.9	750.9	17.09	44.943	
2,600.0	2,583.8	2,462.1	2,347.5	6.9	12.2	121.42	-580.2	330.6	804.8	787.2	17.70	45.483	
2,700.0	2,682.5	2,545.4	2,419.7	7.3	13.0	124.77	-611.1	302.8	845.1	826.7	18.34	46.074	
2,800.0	2,781.3	2,645.5	2,506.8	7.6	13.8	128.49	-646.8	268.7	886.6	867.7	18.96	46.761	
2,900.0	2,880.1	2,729.5	2,580.4	8.0	14.6	131.35	-675.5	240.2	929.3	909.9	19.48	47.706	
3,000.0	2,978.8	2,809.9	2,650.7	8.3	15.3	133.92	-702.7	212.4	973.8	953.8	19.97	48.763	

Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well ANTELOPE P-T-17HZ
Project:	SEC.17-T5N-R62W	TVD Reference:	WELL @ 4709.0ft (Original Well Elev)
Reference Site:	ANTELOPE P-T-17HZ PAD SEC17-T5N-R62W	MD Reference:	WELL @ 4709.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	ANTELOPE P-T-17HZ	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 (APRIL 17, 2012)	Offset TVD Reference:	Offset Datum

Offset Design ANTELOPE P-T-17HZ PAD SEC17-T5N-R62W - ANTELOPE 33-17 (Exist.) - Wellbore #1 - Wellbore #1													Offset Site Error:	0.0 ft
Survey Program: 554-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		
9,500.0	6,402.0	6,563.0	6,397.7	57.7	25.4	89.98	-2,808.8	-640.9	997.8	924.8	73.01	13.666		
9,525.2	6,402.0	6,562.9	6,397.6	58.1	25.4	89.97	-2,808.8	-640.9	997.5	924.0	73.48	13.575	CC, ES, SF	

Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well ANTELOPE P-T-17HZ
Project:	SEC.17-T5N-R62W	TVD Reference:	WELL @ 4709.0ft (Original Well Elev)
Reference Site:	ANTELOPE P-T-17HZ PAD SEC17-T5N-R62W	MD Reference:	WELL @ 4709.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	ANTELOPE P-T-17HZ	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 (APRIL 17, 2012)	Offset TVD Reference:	Offset Datum

Offset Design ANTELOPE P-T-17HZ PAD SEC17-T5N-R62W - ANTELOPE 34-17 (Exist.) - Wellbore #1 - Wellbore #1													Offset Site Error:	0.0 ft
Survey Program: 554-MWD													Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning	
Reference	Offset	Reference	Offset	(ft)	(ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
10,700.0	6,402.0	6,815.2	6,408.3	80.0	37.3	90.65	-4,107.4	-659.2	999.4	887.9	111.45	8.967		
10,800.0	6,402.0	6,816.0	6,409.2	81.9	37.3	90.70	-4,107.4	-659.2	992.0	878.6	113.34	8.752		
10,823.8	6,402.0	6,816.2	6,409.4	82.4	37.3	90.71	-4,107.4	-659.2	991.7	877.9	113.78	8.715 CC, ES		
10,900.0	6,402.0	6,816.9	6,410.0	83.8	37.3	90.75	-4,107.4	-659.2	994.6	879.4	115.22	8.632 SF		

Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well ANTELOPE P-T-17HZ
Project:	SEC.17-T5N-R62W	TVD Reference:	WELL @ 4709.0ft (Original Well Elev)
Reference Site:	ANTELOPE P-T-17HZ PAD	MD Reference:	WELL @ 4709.0ft (Original Well Elev)
	SEC17-T5N-R62W		
Site Error:	0.0ft	North Reference:	True
Reference Well:	ANTELOPE P-T-17HZ	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 (APRIL 17, 2012)	Offset TVD Reference:	Offset Datum

Offset Design ANTELOPE P-T-17HZ PAD SEC17-T5N-R62W - ANTELOPE 41-17 (Exist.) - Wellbore #1 - Design #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Semi Major Axis	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	13.0	13.0	0.0	0.0	102.65	102.65	-167.6	746.4	765.0	764.9	0.01	N/A	
100.0	100.0	113.0	113.0	0.1	0.1	102.65	102.65	-167.6	746.4	765.0	764.7	0.25	3,011.838	
200.0	200.0	213.0	213.0	0.3	0.4	102.65	102.65	-167.6	746.4	765.0	764.3	0.70	1,087.341	
300.0	300.0	313.0	313.0	0.6	0.6	102.65	102.65	-167.6	746.4	765.0	763.8	1.15	663.426	
400.0	400.0	413.0	413.0	0.8	0.8	102.65	102.65	-167.6	746.4	765.0	763.4	1.60	477.332	
500.0	500.0	513.0	513.0	1.0	1.0	102.65	102.65	-167.6	746.4	765.0	762.9	2.05	372.769	
600.0	600.0	613.0	613.0	1.2	1.3	102.65	102.65	-167.6	746.4	765.0	762.5	2.50	305.784	
700.0	700.0	713.0	713.0	1.5	1.5	102.65	102.65	-167.6	746.4	765.0	762.0	2.95	259.206	
800.0	800.0	813.0	813.0	1.7	1.7	102.65	102.65	-167.6	746.4	765.0	761.6	3.40	224.942	
900.0	900.0	913.0	913.0	1.9	1.9	102.65	102.65	-167.6	746.4	765.0	761.1	3.85	198.679	
1,000.0	1,000.0	1,013.0	1,013.0	2.1	2.2	102.65	102.65	-167.6	746.4	765.0	760.7	4.30	177.908	
1,100.0	1,100.0	1,113.0	1,113.0	2.4	2.4	61.20	61.20	-167.6	746.4	764.1	759.4	4.74	161.040	
1,200.0	1,199.8	1,212.8	1,212.8	2.6	2.6	61.59	61.59	-167.6	746.4	761.6	756.4	5.19	146.834	
1,300.0	1,299.5	1,312.5	1,312.5	2.8	2.8	62.24	62.24	-167.6	746.4	757.5	751.9	5.63	134.460	
1,400.0	1,398.7	1,411.7	1,411.7	3.1	3.1	63.16	63.16	-167.6	746.4	751.9	745.8	6.09	123.422	
1,453.1	1,451.2	1,464.2	1,464.2	3.2	3.2	63.76	63.76	-167.6	746.4	748.3	742.0	6.34	117.975	
1,500.0	1,497.5	1,510.5	1,510.5	3.3	3.3	64.26	64.26	-167.6	746.4	745.1	738.5	6.57	113.379	
1,600.0	1,596.3	1,609.3	1,609.3	3.6	3.5	65.35	65.35	-167.6	746.4	738.3	731.2	7.07	104.418	
1,700.0	1,695.0	1,708.0	1,708.0	3.9	3.7	66.46	66.46	-167.6	746.4	731.8	724.2	7.58	96.496	
1,800.0	1,793.8	1,806.8	1,806.8	4.2	3.9	67.59	67.59	-167.6	746.4	725.6	717.5	8.11	89.481	
1,900.0	1,892.5	1,905.5	1,905.5	4.5	4.2	68.74	68.74	-167.6	746.4	719.6	711.0	8.64	83.255	
2,000.0	1,991.3	2,004.3	2,004.3	4.9	4.4	69.90	69.90	-167.6	746.4	714.0	704.8	9.19	77.714	
2,100.0	2,090.0	2,103.0	2,103.0	5.2	4.6	71.08	71.08	-167.6	746.4	708.7	699.0	9.74	72.767	
2,200.0	2,188.8	2,201.8	2,201.8	5.5	4.8	72.28	72.28	-167.6	746.4	703.7	693.4	10.30	68.338	
2,300.0	2,287.5	2,300.5	2,300.5	5.9	5.1	73.50	73.50	-167.6	746.4	699.0	688.1	10.86	64.359	
2,400.0	2,386.3	2,399.3	2,399.3	6.2	5.3	74.73	74.73	-167.6	746.4	694.6	683.2	11.43	60.774	
2,500.0	2,485.0	2,498.0	2,498.0	6.6	5.5	75.98	75.98	-167.6	746.4	690.6	678.6	12.00	57.536	
2,600.0	2,583.8	2,596.8	2,596.8	6.9	5.7	77.24	77.24	-167.6	746.4	686.9	674.3	12.58	54.605	
2,700.0	2,682.5	2,695.5	2,695.5	7.3	5.9	78.51	78.51	-167.6	746.4	683.6	670.4	13.16	51.943	
2,800.0	2,781.3	2,794.3	2,794.3	7.6	6.2	79.79	79.79	-167.6	746.4	680.6	666.8	13.74	49.523	
2,900.0	2,880.1	2,893.1	2,893.1	8.0	6.4	81.09	81.09	-167.6	746.4	677.9	663.6	14.33	47.317	
3,000.0	2,978.8	2,991.8	2,991.8	8.3	6.6	82.39	82.39	-167.6	746.4	675.6	660.7	14.91	45.303	
3,100.0	3,077.6	3,090.6	3,090.6	8.7	6.8	83.70	83.70	-167.6	746.4	673.7	658.2	15.50	43.461	
3,200.0	3,176.3	3,189.3	3,189.3	9.1	7.1	85.02	85.02	-167.6	746.4	672.1	656.0	16.09	41.776	
3,300.0	3,275.1	3,288.1	3,288.1	9.4	7.3	86.34	86.34	-167.6	746.4	670.9	654.3	16.68	40.230	
3,400.0	3,373.8	3,386.8	3,386.8	9.8	7.5	87.67	87.67	-167.6	746.4	670.1	652.8	17.27	38.812	
3,500.0	3,472.6	3,485.6	3,485.6	10.1	7.7	89.00	89.00	-167.6	746.4	669.6	651.8	17.85	37.509	
3,575.1	3,546.7	3,559.7	3,559.7	10.4	7.9	90.00	90.00	-167.6	746.4	669.5	651.2	18.29	36.600	
3,600.0	3,571.3	3,584.3	3,584.3	10.5	7.9	90.33	90.33	-167.6	746.4	669.5	651.1	18.44	36.311	
3,700.0	3,670.1	3,683.1	3,683.1	10.9	8.2	91.66	91.66	-167.6	746.4	669.8	650.8	19.02	35.210	
3,800.0	3,768.8	3,781.8	3,781.8	11.2	8.4	92.99	92.99	-167.6	746.4	670.5	650.9	19.61	34.196	
3,900.0	3,867.6	3,880.6	3,880.6	11.6	8.6	94.32	94.32	-167.6	746.4	671.5	651.3	20.19	33.263	
4,000.0	3,966.3	3,979.3	3,979.3	11.9	8.8	95.64	95.64	-167.6	746.4	672.9	652.1	20.76	32.404	
4,100.0	4,065.1	4,078.1	4,078.1	12.3	9.1	96.95	96.95	-167.6	746.4	674.6	653.3	21.34	31.613	
4,200.0	4,163.8	4,176.8	4,176.8	12.7	9.3	98.26	98.26	-167.6	746.4	676.7	654.8	21.91	30.884	
4,300.0	4,262.6	4,275.6	4,275.6	13.0	9.5	99.56	99.56	-167.6	746.4	679.2	656.7	22.48	30.212	
4,400.0	4,361.3	4,374.3	4,374.3	13.4	9.7	100.85	100.85	-167.6	746.4	682.0	659.0	23.05	29.594	
4,500.0	4,460.1	4,473.1	4,473.1	13.8	9.9	102.13	102.13	-167.6	746.4	685.2	661.6	23.61	29.025	
4,600.0	4,558.8	4,571.8	4,571.8	14.1	10.2	103.39	103.39	-167.6	746.4	688.7	664.6	24.16	28.502	
4,700.0	4,657.6	4,670.6	4,670.6	14.5	10.4	104.65	104.65	-167.6	746.4	692.6	667.9	24.72	28.020	
4,800.0	4,756.3	4,769.3	4,769.3	14.9	10.6	105.88	105.88	-167.6	746.4	696.8	671.5	25.27	27.578	

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 ANTELOPE P-T-17HZ
Project:	SEC.17-T5N-R62W	TVD Reference:	WELL @ 4709.0ft (Original Well Elev)
Reference Site:	ANTELOPE P-T-17HZ PAD SEC17-T5N-R62W	MD Reference:	WELL @ 4709.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	ANTELOPE P-T-17HZ	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 (APRIL 17, 2012)	Offset TVD Reference:	Offset Datum

Offset Design ANTELOPE P-T-17HZ PAD SEC17-T5N-R62W - ANTELOPE 41-17 (Exist.) - Wellbore #1 - Design #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
4,900.0	4,855.1	4,868.1	4,868.1	15.2	10.8	107.11		-167.6	746.4	701.3	675.5	25.81	27.171	
4,994.9	4,948.8	4,961.8	4,961.8	15.6	11.0	108.25		-167.6	746.4	705.9	679.6	26.32	26.816	
5,000.0	4,953.8	4,966.8	4,966.8	15.6	11.1	108.32		-167.6	746.4	706.1	679.8	26.35	26.800	
5,100.0	5,052.9	5,065.9	5,065.9	15.9	11.3	109.46		-167.6	746.4	710.7	683.9	26.80	26.521	
5,200.0	5,152.3	5,165.3	5,165.3	16.1	11.5	110.30		-167.6	746.4	714.2	687.0	27.22	26.240	
5,300.0	5,252.1	5,265.1	5,265.1	16.3	11.7	110.87		-167.6	746.4	716.6	689.0	27.62	25.950	
5,400.0	5,352.0	5,365.0	5,365.0	16.5	11.9	111.14		-167.6	746.4	717.9	689.9	27.99	25.647	
5,448.0	5,400.0	5,413.0	5,413.0	16.5	12.1	152.76		-167.6	746.4	718.0	689.8	28.20	25.459	
5,500.0	5,452.0	5,465.0	5,465.0	16.6	12.2	152.76		-167.6	746.4	718.0	689.6	28.40	25.287	
5,600.0	5,552.0	5,565.0	5,565.0	16.7	12.4	152.76		-167.6	746.4	718.0	689.2	28.78	24.947	
5,700.0	5,652.0	5,665.0	5,665.0	16.9	12.6	152.76		-167.6	746.4	718.0	688.9	29.17	24.615	
5,800.0	5,752.0	5,765.0	5,765.0	17.1	12.8	152.76		-167.6	746.4	718.0	688.5	29.56	24.291	
5,900.0	5,852.0	5,865.0	5,865.0	17.2	13.1	152.76		-167.6	746.4	718.0	688.1	29.95	23.974	
5,929.1	5,881.1	5,894.1	5,894.1	17.3	13.1	152.76		-167.6	746.4	718.0	688.0	30.06	23.883	
5,950.0	5,902.0	5,915.0	5,915.0	17.3	13.2	-28.34		-167.6	746.4	717.7	687.6	30.07	23.864	
6,000.0	5,951.8	5,964.8	5,964.8	17.3	13.3	-28.72		-167.6	746.4	713.8	683.7	30.05	23.752	
6,050.0	6,000.9	6,013.9	6,013.9	17.3	13.4	-29.51		-167.6	746.4	705.8	675.9	29.86	23.636	
6,100.0	6,049.0	6,062.0	6,062.0	17.3	13.5	-30.76		-167.6	746.4	693.7	664.2	29.51	23.503	
6,150.0	6,095.5	6,108.5	6,108.5	17.2	13.6	-32.52		-167.6	746.4	677.8	648.7	29.05	23.329	
6,200.0	6,140.0	6,153.0	6,153.0	17.1	13.7	-34.86		-167.6	746.4	658.2	629.7	28.52	23.077	
6,250.0	6,182.1	6,195.1	6,195.1	17.0	13.8	-37.87		-167.6	746.4	635.3	607.3	27.99	22.695	
6,300.0	6,221.5	6,234.5	6,234.5	16.9	13.9	-41.66		-167.6	746.4	609.6	582.0	27.56	22.120	
6,350.0	6,257.7	6,270.7	6,270.7	16.8	14.0	-46.29		-167.6	746.4	581.3	554.0	27.30	21.291	
6,400.0	6,290.4	6,303.4	6,303.4	16.6	14.1	-51.79		-167.6	746.4	551.2	523.9	27.31	20.185	
6,450.0	6,319.4	6,332.4	6,332.4	16.5	14.1	-58.07		-167.6	746.4	519.8	492.2	27.57	18.850	
6,500.0	6,344.4	6,357.4	6,357.4	16.3	14.2	-64.87		-167.6	746.4	487.9	459.8	28.03	17.408	
6,550.0	6,365.1	6,378.1	6,378.1	16.2	14.2	-71.74		-167.6	746.4	456.4	427.9	28.51	16.006	
6,600.0	6,381.3	6,394.3	6,394.3	16.1	14.3	-78.12		-167.6	746.4	426.4	397.5	28.90	14.753	
6,650.0	6,392.9	6,402.0	6,402.0	16.0	14.3	-82.89		-167.6	746.4	399.0	369.9	29.12	13.705	
6,700.0	6,399.9	6,402.0	6,402.0	15.9	14.3	-85.77		-167.6	746.4	375.7	346.5	29.25	12.846	
6,747.3	6,402.0	6,402.0	6,402.0	15.8	14.3	-87.81		-167.6	746.4	358.5	329.1	29.39	12.198	
6,800.0	6,402.0	6,402.0	6,402.0	15.8	14.3	-87.81		-167.6	746.4	345.7	316.1	29.60	11.680	
6,858.6	6,402.0	6,402.0	6,402.0	16.0	14.3	-87.81		-167.6	746.4	340.7	310.8	29.94	11.381 CC, ES	
6,900.0	6,402.0	6,402.0	6,402.0	16.3	14.3	-87.81		-167.6	746.4	343.2	313.1	30.18	11.374 SF	
7,000.0	6,402.0	6,402.0	6,402.0	17.1	14.3	-87.81		-167.6	746.4	368.9	338.0	30.96	11.917	
7,100.0	6,402.0	6,402.0	6,402.0	18.1	14.3	-87.81		-167.6	746.4	417.6	385.7	31.91	13.086	
7,200.0	6,402.0	6,402.0	6,402.0	19.2	14.3	-87.81		-167.6	746.4	482.4	449.4	33.01	14.612	
7,300.0	6,402.0	6,402.0	6,402.0	20.5	14.3	-87.81		-167.6	746.4	557.6	523.4	34.24	16.288	
7,400.0	6,402.0	6,402.0	6,402.0	21.8	14.3	-87.81		-167.6	746.4	639.7	604.2	35.56	17.988	
7,500.0	6,402.0	6,402.0	6,402.0	23.2	14.3	-87.81		-167.6	746.4	726.3	689.3	36.97	19.644	
7,600.0	6,402.0	6,402.0	6,402.0	24.7	14.3	-87.81		-167.6	746.4	816.0	777.5	38.45	21.220	
7,700.0	6,402.0	6,402.0	6,402.0	26.2	14.3	-87.81		-167.6	746.4	907.8	867.8	39.99	22.700	

Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well ANTELOPE P-T-17HZ
Project:	SEC.17-T5N-R62W	TVD Reference:	WELL @ 4709.0ft (Original Well Elev)
Reference Site:	ANTELOPE P-T-17HZ PAD	MD Reference:	WELL @ 4709.0ft (Original Well Elev)
	SEC17-T5N-R62W		
Site Error:	0.0ft	North Reference:	True
Reference Well:	ANTELOPE P-T-17HZ	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 (APRIL 17, 2012)	Offset TVD Reference:	Offset Datum

Offset Design ANTELOPE P-T-17HZ PAD SEC17-T5N-R62W - ANTELOPE 42-17 (Exist.) - Wellbore #1 - Wellbore #1													Offset Site Error:	0.0 ft
Survey Program: 560-MWD													Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
0.0	0.0	12.7	12.7	0.0	0.0	104.66	-196.7	752.0	777.3	777.2	0.01	N/A		
100.0	100.0	110.6	110.6	0.1	0.1	104.66	-196.8	752.1	777.4	777.2	0.24	3,267.313		
200.0	200.0	208.5	208.5	0.3	0.2	104.67	-197.0	752.5	777.9	777.3	0.57	1,356.023		
300.0	300.0	306.4	306.4	0.6	0.3	104.67	-197.2	753.2	778.6	777.7	0.91	856.211		
400.0	400.0	404.3	404.3	0.8	0.5	104.69	-197.6	754.1	779.6	778.3	1.25	626.147		
500.0	500.0	502.1	502.1	1.0	0.6	104.70	-198.1	755.2	780.8	779.3	1.58	493.973		
600.0	600.0	594.0	594.0	1.2	0.7	104.73	-198.9	756.6	782.5	780.6	1.95	401.527		
700.0	700.0	679.1	679.0	1.5	0.9	104.90	-201.9	758.9	786.0	783.6	2.37	331.524		
800.0	800.0	782.0	781.6	1.7	1.2	105.33	-208.9	762.0	790.7	787.9	2.84	278.332		
900.0	900.0	897.4	896.5	1.9	1.4	106.11	-220.1	761.7	793.0	789.7	3.35	236.504		
1,000.0	1,000.0	988.3	986.4	2.1	1.7	107.02	-232.7	760.4	795.6	791.8	3.84	207.157		
1,100.0	1,100.0	1,077.1	1,073.9	2.4	2.0	66.54	-248.0	759.4	799.1	794.8	4.32	184.915		
1,200.0	1,199.8	1,166.4	1,161.2	2.6	2.4	68.07	-266.6	758.2	802.7	797.9	4.88	164.548		
1,300.0	1,299.5	1,248.4	1,240.8	2.8	2.7	69.78	-286.2	757.0	807.1	801.6	5.45	148.221		
1,400.0	1,398.7	1,325.6	1,315.3	3.1	3.1	71.58	-306.5	757.2	813.7	807.7	6.02	135.144		
1,453.1	1,451.2	1,382.5	1,370.1	3.2	3.4	73.04	-322.0	757.1	817.5	811.1	6.40	127.672		
1,500.0	1,497.5	1,428.9	1,414.6	3.3	3.6	74.35	-335.0	756.5	820.9	814.2	6.74	121.820		
1,600.0	1,596.3	1,519.2	1,500.6	3.6	4.1	77.02	-362.4	754.0	829.5	822.1	7.44	111.548		
1,700.0	1,695.0	1,595.0	1,572.8	3.9	4.5	79.24	-385.5	751.9	840.4	832.4	8.06	104.220		
1,800.0	1,793.8	1,675.0	1,648.9	4.2	4.9	81.48	-409.9	751.0	854.7	846.0	8.70	98.185		
1,900.0	1,892.5	1,761.5	1,731.2	4.5	5.4	83.78	-436.5	751.9	872.3	863.0	9.37	93.100		
2,000.0	1,991.3	1,842.4	1,808.3	4.9	5.8	85.82	-461.2	753.3	892.0	882.0	10.02	89.048		
2,100.0	2,090.0	1,925.4	1,886.9	5.2	6.3	87.89	-487.8	755.1	914.4	903.8	10.67	85.738		
2,200.0	2,188.8	2,030.4	1,986.8	5.5	6.9	90.28	-519.8	758.5	938.2	926.8	11.36	82.586		
2,300.0	2,287.5	2,137.0	2,088.6	5.9	7.4	92.64	-551.4	759.7	961.1	949.1	12.03	79.876		
2,400.0	2,386.3	2,221.6	2,169.2	6.2	7.9	94.50	-577.0	759.4	984.9	972.2	12.66	77.818		
7,300.0	6,402.0	6,583.1	6,398.4	20.5	26.2	-87.46	-1,490.8	754.9	957.4	911.3	46.14	20.749		
7,400.0	6,402.0	6,584.0	6,399.4	21.8	26.2	-87.60	-1,490.8	755.0	866.3	818.8	47.47	18.248		
7,500.0	6,402.0	6,585.0	6,400.3	23.2	26.2	-87.75	-1,490.8	755.0	777.3	728.4	48.88	15.900		
7,600.0	6,402.0	6,585.9	6,401.2	24.7	26.2	-87.89	-1,490.8	755.0	691.3	640.9	50.36	13.726		
7,700.0	6,402.0	6,586.8	6,402.1	26.2	26.2	-88.03	-1,490.8	755.0	609.6	557.7	51.90	11.745		
7,800.0	6,402.0	6,587.7	6,403.0	27.8	26.2	-88.17	-1,490.8	755.0	534.1	480.6	53.49	9.986		
7,900.0	6,402.0	6,588.6	6,403.9	29.4	26.2	-88.31	-1,490.8	755.1	468.0	412.9	55.12	8.491		
8,000.0	6,402.0	6,589.5	6,404.8	31.0	26.2	-88.44	-1,490.8	755.1	415.6	358.8	56.77	7.320		
8,100.0	6,402.0	6,590.4	6,405.7	32.7	26.2	-88.58	-1,490.8	755.1	382.7	324.2	58.46	6.546		
8,181.4	6,402.0	6,591.1	6,406.4	34.1	26.2	-88.68	-1,490.8	755.1	373.9	314.1	59.86	6.247 CC, ES		
8,200.0	6,402.0	6,591.2	6,406.6	34.4	26.2	-88.71	-1,490.8	755.1	374.4	314.2	60.18	6.222 SF		
8,300.0	6,402.0	6,592.1	6,407.4	36.1	26.2	-88.84	-1,490.8	755.1	392.3	330.4	61.91	6.336		
8,400.0	6,402.0	6,592.9	6,408.3	37.8	26.2	-88.97	-1,490.8	755.2	433.1	369.4	63.66	6.804		
8,500.0	6,402.0	6,593.8	6,409.1	39.6	26.2	-89.10	-1,490.9	755.2	491.2	425.8	65.42	7.508		
8,600.0	6,402.0	6,594.6	6,409.9	41.4	26.2	-89.22	-1,490.9	755.2	561.2	494.0	67.20	8.351		
8,700.0	6,402.0	6,595.4	6,410.7	43.1	26.2	-89.35	-1,490.9	755.2	639.3	570.3	68.99	9.266		
8,800.0	6,402.0	6,596.2	6,411.6	44.9	26.2	-89.47	-1,490.9	755.2	722.8	652.0	70.80	10.209		
8,900.0	6,402.0	6,597.0	6,412.4	46.7	26.2	-89.59	-1,490.9	755.3	810.0	737.4	72.61	11.156		
9,000.0	6,402.0	6,597.8	6,413.1	48.5	26.2	-89.72	-1,490.9	755.3	899.9	825.5	74.42	12.092		
9,100.0	6,402.0	6,598.6	6,413.9	50.4	26.2	-89.84	-1,490.9	755.3	991.7	915.5	76.25	13.006		

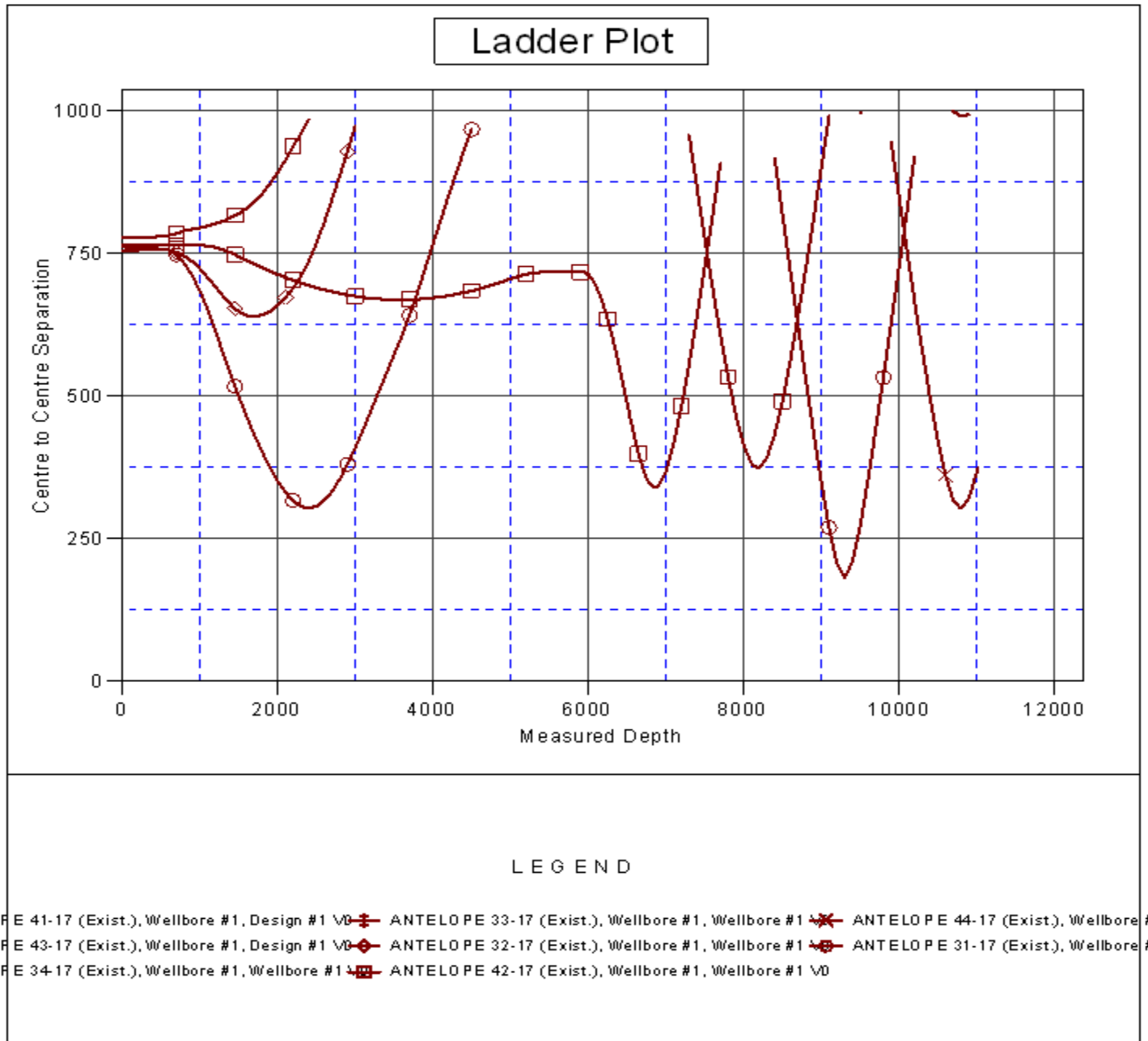
Offset Design ANTELOPE P-T-17HZ PAD SEC17-T5N-R62W - ANTELOPE 43-17 (Exist.) - Wellbore #1 - Design #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth	Vertical Depth	Measured Depth	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)			
8,400.0	6,402.0	6,397.0	6,397.0	37.8	14.3	-90.00	-2,604.8	543.1	917.5	865.8	51.70	17.747		
8,500.0	6,402.0	6,397.0	6,397.0	39.6	14.3	-90.00	-2,604.8	543.1	819.8	766.3	53.47	15.332		
8,600.0	6,402.0	6,397.0	6,397.0	41.4	14.3	-90.00	-2,604.8	543.1	722.6	667.4	55.25	13.080		
8,700.0	6,402.0	6,397.0	6,397.0	43.1	14.3	-90.00	-2,604.8	543.1	626.4	569.4	57.04	10.982		
8,800.0	6,402.0	6,397.0	6,397.0	44.9	14.3	-90.00	-2,604.8	543.1	531.5	472.7	58.84	9.033		
8,900.0	6,402.0	6,397.0	6,397.0	46.7	14.3	-90.00	-2,604.8	543.1	439.0	378.3	60.65	7.237		
9,000.0	6,402.0	6,397.0	6,397.0	48.5	14.3	-90.00	-2,604.8	543.1	350.5	288.0	62.47	5.611		
9,100.0	6,402.0	6,397.0	6,397.0	50.4	14.3	-90.00	-2,604.8	543.1	270.2	205.9	64.30	4.202		
9,200.0	6,402.0	6,397.0	6,397.0	52.2	14.3	-90.00	-2,604.8	543.1	207.8	141.7	66.13	3.142		
9,299.2	6,402.0	6,397.0	6,397.0	54.0	14.3	-90.00	-2,604.8	543.1	182.6	114.6	67.96	2.687 CC		
9,300.0	6,402.0	6,397.0	6,397.0	54.0	14.3	-90.00	-2,604.8	543.1	182.6	114.6	67.97	2.686 ES, SF		
9,400.0	6,402.0	6,397.0	6,397.0	55.8	14.3	-90.00	-2,604.8	543.1	208.6	138.7	69.82	2.987		
9,500.0	6,402.0	6,397.0	6,397.0	57.7	14.3	-90.00	-2,604.8	543.1	271.4	199.7	71.66	3.787		
9,600.0	6,402.0	6,397.0	6,397.0	59.5	14.3	-90.00	-2,604.8	543.1	351.9	278.4	73.52	4.786		
9,700.0	6,402.0	6,397.0	6,397.0	61.4	14.3	-90.00	-2,604.8	543.1	440.4	365.1	75.37	5.843		
9,800.0	6,402.0	6,397.0	6,397.0	63.2	14.3	-90.00	-2,604.8	543.1	533.1	455.8	77.24	6.902		
9,900.0	6,402.0	6,397.0	6,397.0	65.1	14.3	-90.00	-2,604.8	543.1	627.9	548.8	79.10	7.939		
10,000.0	6,402.0	6,397.0	6,397.0	67.0	14.3	-90.00	-2,604.8	543.1	724.2	643.2	80.97	8.945		
10,100.0	6,402.0	6,397.0	6,397.0	68.8	14.3	-90.00	-2,604.8	543.1	821.4	738.5	82.84	9.916		
10,200.0	6,402.0	6,397.0	6,397.0	70.7	14.3	-90.00	-2,604.8	543.1	919.1	834.4	84.71	10.851		

Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well ANTELOPE P-T-17HZ
Project:	SEC.17-T5N-R62W	TVD Reference:	WELL @ 4709.0ft (Original Well Elev)
Reference Site:	ANTELOPE P-T-17HZ PAD SEC17-T5N-R62W	MD Reference:	WELL @ 4709.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	ANTELOPE P-T-17HZ	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 (APRIL 17, 2012)	Offset TVD Reference:	Offset Datum

Offset Design ANTELOPE P-T-17HZ PAD SEC17-T5N-R62W - ANTELOPE 44-17 (Exist.) - Wellbore #1 - Wellbore #1										Offset Site Error:		0.0 ft	
Survey Program: 553-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)		
9,900.0	6,402.0	6,654.2	6,394.9	65.1	29.4	-89.61	-4,104.0	636.2	946.4	852.1	94.25	10.041	
10,000.0	6,402.0	6,654.0	6,394.8	67.0	29.4	-89.58	-4,104.0	636.2	852.3	756.1	96.12	8.867	
10,100.0	6,402.0	6,653.8	6,394.6	68.8	29.4	-89.54	-4,104.0	636.2	759.7	661.7	97.99	7.752	
10,200.0	6,402.0	6,653.7	6,394.4	70.7	29.4	-89.51	-4,104.0	636.2	669.2	569.3	99.86	6.701	
10,300.0	6,402.0	6,653.5	6,394.3	72.6	29.4	-89.48	-4,104.0	636.2	581.8	480.1	101.74	5.719	
10,400.0	6,402.0	6,653.3	6,394.1	74.4	29.4	-89.45	-4,104.0	636.2	499.3	395.6	103.61	4.818	
10,500.0	6,402.0	6,653.2	6,393.9	76.3	29.4	-89.42	-4,104.0	636.2	424.2	318.7	105.49	4.021	
10,600.0	6,402.0	6,653.0	6,393.8	78.2	29.4	-89.39	-4,104.0	636.2	361.5	254.2	107.37	3.367	
10,700.0	6,402.0	6,652.8	6,393.6	80.0	29.4	-89.36	-4,104.0	636.2	318.5	209.2	109.26	2.915	
10,796.4	6,402.0	6,652.7	6,393.5	81.9	29.4	-89.33	-4,104.0	636.2	303.5	192.5	111.07	2.733 CC	
10,800.0	6,402.0	6,652.7	6,393.4	81.9	29.4	-89.33	-4,104.0	636.2	303.6	192.4	111.14	2.731 ES, SF	
10,900.0	6,402.0	6,652.5	6,393.3	83.8	29.4	-89.30	-4,104.0	636.2	320.7	207.7	113.02	2.838	
11,000.0	6,402.0	6,652.4	6,393.1	85.7	29.4	-89.27	-4,104.0	636.2	365.5	250.6	114.91	3.181	
11,015.1	6,402.0	6,652.4	6,393.1	85.9	29.4	-89.27	-4,104.0	636.2	374.2	259.0	115.14	3.250	

Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well ANTELOPE P-T-17HZ
Project:	SEC.17-T5N-R62W	TVD Reference:	WELL @ 4709.0ft (Original Well Elev)
Reference Site:	ANTELOPE P-T-17HZ PAD SEC17-T5N-R62W	MD Reference:	WELL @ 4709.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	ANTELOPE P-T-17HZ	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 (APRIL 17, 2012)	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 4709.0ft (Original Well Elev) Coordinates are relative to: ANTELOPE P-T-17HZ
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000 °
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.75°



Company:	BONANZA CREEK ENERGY OPERATING	Local Co-ordinate Reference:	Well ANTELOPE P-T-17HZ
Project:	SEC.17-T5N-R62W	TVD Reference:	WELL @ 4709.0ft (Original Well Elev)
Reference Site:	ANTELOPE P-T-17HZ PAD SEC17-T5N-R62W	MD Reference:	WELL @ 4709.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	ANTELOPE P-T-17HZ	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 (APRIL 17, 2012)	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 4709.0ft (Original Well Elev) Coordinates are relative to: ANTELOPE P-T-17HZ
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000 °
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.75°

