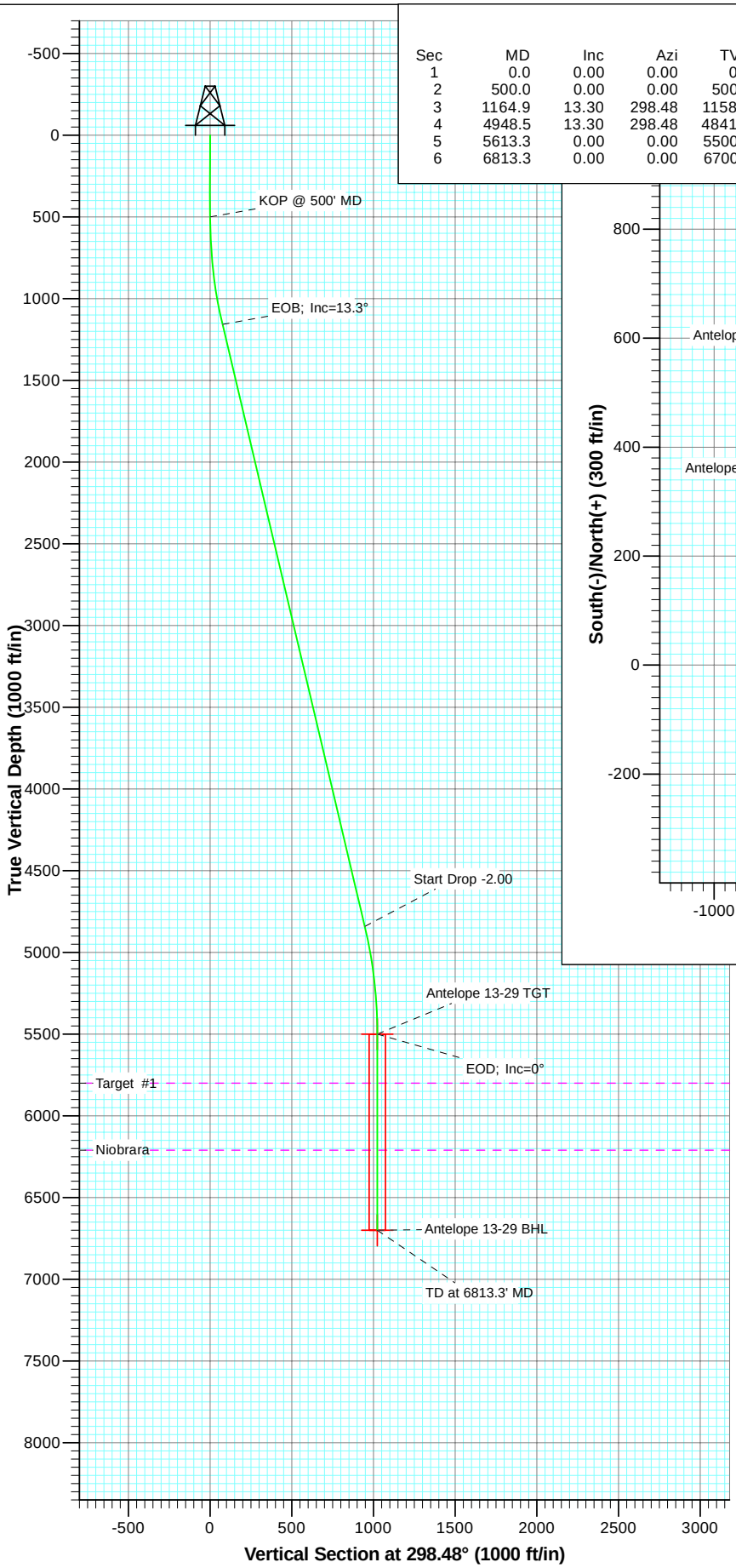
BONANZA CREEK ENERGY COMPANY

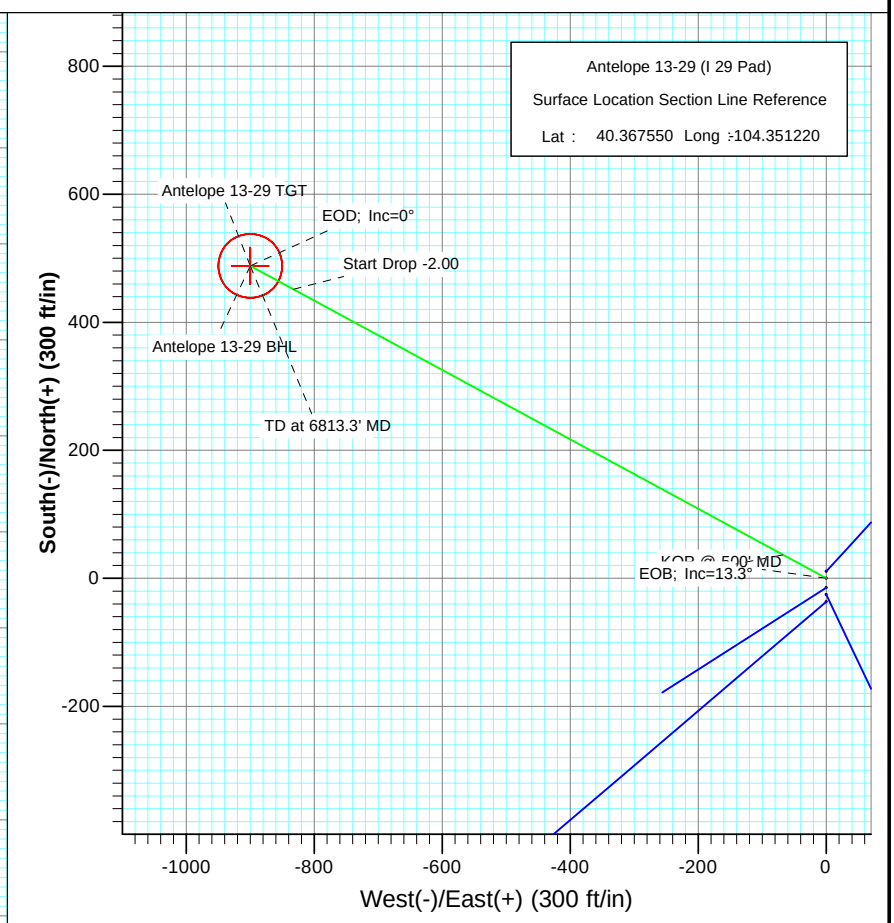
Project: Weld County
Site: Antelope I 29 Pad
Well: Antelope 13-29 (I 29 Pad)
Wellbore: DD
Plan: Plan #1

CATHEDRAL

SECTION DETAILS

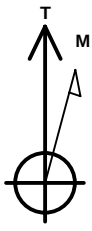
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.0	
3	1164.9	13.30	298.48	1158.9	36.6	-67.5	2.00	298.48	76.8	
4	4948.5	13.30	298.48	4841.1	451.6	-832.5	0.00	0.00	947.1	
5	5613.3	0.00	0.00	5500.0	488.2	-900.0	2.00	180.00	1023.9	Antelope 13-29 TGT
6	6813.3	0.00	0.00	6700.0	488.2	-900.0	0.00	0.00	1023.9	Antelope 13-29 BHL





FORMATION TOP DETAILS

TVDPath	MDPath	Formation
5800.0	5913.3	Target #1
6210.0	6323.3	Niobrara



Azimuths to True North
Magnetic North: 8.68°

Magnetic Field
Strength: 53192.8snT
Dip Angle: 67.10°
Date: 2/24/2011
Model: IGRF2010

Plan #1
Antelope 13-29 (I 29 Pad)

KBE @ 4601.0ft (Original Well Elev)
North American Datum 1983
Well Antelope 13-29 (I 29 Pad), True North

Target	Azimuth	Origin Type	N/S	E/W	From TVD
Antelope 13-29 BHL	298.48	Slot	0.0	0.0	0.0

Name	TVD	+N/-S	+E/-W	Latitude	Longitude
Antelope 13-29 TGT	5500.0	488.2	-900.0	40.368890	-104.354450
Antelope 13-29 BHL	6700.0	488.2	-900.0	40.368890	-104.354450

Cathedral Energy Services

Planning Report

Database:	EDM 5000.1 US Multi Users DB	**Local Co-ordinate Reference:**	Well Antelope 13-29 (I 29 Pad)
Company:	Bonanza Creek Energy Operating Company, LLC	**TVD Reference:**	KBE @ 4601.0ft (Original Well Elev)
Project:	Weld County	**MD Reference:**	KBE @ 4601.0ft (Original Well Elev)
Site:	Antelope I 29 Pad	**North Reference:**	True
Well:	Antelope 13-29 (I 29 Pad)	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	DD		
Design:	Plan #1		

Project Weld County

Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site Antelope I 29 Pad

Site Position:		**Northing:**	1,378,800.60 ft	**Latitude:**	40.367510
From:	Lat/Long	**Easting:**	3,320,098.15 ft	**Longitude:**	-104.351220
Position Uncertainty:	0.0 ft	**Slot Radius:**	13.200 in	**Grid Convergence:**	0.74 °

Well Antelope 13-29 (I 29 Pad)

Well Position	**+N/-S**	0.0 ft	**Northing:**	1,378,815.16 ft	**Latitude:**	40.367550
	+E/-W	0.0 ft	**Easting:**	3,320,097.96 ft	**Longitude:**	-104.351220
Position Uncertainty		0.0 ft	**Wellhead Elevation:**	ft	**Ground Level:**	4,591.0 ft

Wellbore DD

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2/24/2011	8.68	67.10	53,193

Design Plan #1

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	298.48

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	
500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,164.9	13.30	298.48	1,158.9	36.6	-67.5	2.00	2.00	0.00	298.48	
4,948.5	13.30	298.48	4,841.1	451.6	-832.5	0.00	0.00	0.00	0.00	
5,613.3	0.00	0.00	5,500.0	488.2	-900.0	2.00	-2.00	0.00	180.00	Antelope 13-29 TGT
6,813.3	0.00	0.00	6,700.0	488.2	-900.0	0.00	0.00	0.00	0.00	Antelope 13-29 BHL

Database:	EDM 5000.1 US Multi Users DB	**Local Co-ordinate Reference:**	Well Antelope 13-29 (I 29 Pad)
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Project:	Weld County	**MD Reference:**	KBE @ 4601.0ft (Original Well Elev)
Site:	Antelope I 29 Pad	**North Reference:**	True
Well:	Antelope 13-29 (I 29 Pad)	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	DD		
Design:	Plan #1		

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)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	KOP @ 500' MD
600.0	2.00	298.48	600.0	0.8	-1.5	1.7	2.00	2.00	
700.0	4.00	298.48	699.8	3.3	-6.1	7.0	2.00	2.00	
800.0	6.00	298.48	799.5	7.5	-13.8	15.7	2.00	2.00	
900.0	8.00	298.48	898.7	13.3	-24.5	27.9	2.00	2.00	
1,000.0	10.00	298.48	997.5	20.8	-38.3	43.5	2.00	2.00	
1,100.0	12.00	298.48	1,095.6	29.8	-55.0	62.6	2.00	2.00	
1,164.9	13.30	298.48	1,158.9	36.6	-67.5	76.8	2.00	2.00	EOB; Inc=13.3°
1,200.0	13.30	298.48	1,193.1	40.5	-74.6	84.9	0.00	0.00	
1,300.0	13.30	298.48	1,290.4	51.4	-94.8	107.9	0.00	0.00	
1,400.0	13.30	298.48	1,387.7	62.4	-115.1	130.9	0.00	0.00	
1,500.0	13.30	298.48	1,485.1	73.4	-135.3	153.9	0.00	0.00	
1,600.0	13.30	298.48	1,582.4	84.3	-155.5	176.9	0.00	0.00	
1,700.0	13.30	298.48	1,679.7	95.3	-175.7	199.9	0.00	0.00	
1,800.0	13.30	298.48	1,777.0	106.3	-195.9	222.9	0.00	0.00	
1,900.0	13.30	298.48	1,874.3	117.2	-216.1	245.9	0.00	0.00	
2,000.0	13.30	298.48	1,971.7	128.2	-236.4	268.9	0.00	0.00	
2,100.0	13.30	298.48	2,069.0	139.2	-256.6	291.9	0.00	0.00	
2,200.0	13.30	298.48	2,166.3	150.1	-276.8	314.9	0.00	0.00	
2,300.0	13.30	298.48	2,263.6	161.1	-297.0	337.9	0.00	0.00	
2,400.0	13.30	298.48	2,360.9	172.1	-317.2	360.9	0.00	0.00	
2,500.0	13.30	298.48	2,458.3	183.0	-337.5	383.9	0.00	0.00	
2,600.0	13.30	298.48	2,555.6	194.0	-357.7	406.9	0.00	0.00	
2,700.0	13.30	298.48	2,652.9	205.0	-377.9	429.9	0.00	0.00	
2,800.0	13.30	298.48	2,750.2	215.9	-398.1	452.9	0.00	0.00	
2,900.0	13.30	298.48	2,847.5	226.9	-418.3	475.9	0.00	0.00	
3,000.0	13.30	298.48	2,944.8	237.9	-438.5	498.9	0.00	0.00	
3,100.0	13.30	298.48	3,042.2	248.8	-458.8	521.9	0.00	0.00	
3,200.0	13.30	298.48	3,139.5	259.8	-479.0	544.9	0.00	0.00	
3,300.0	13.30	298.48	3,236.8	270.8	-499.2	567.9	0.00	0.00	
3,400.0	13.30	298.48	3,334.1	281.7	-519.4	590.9	0.00	0.00	
3,500.0	13.30	298.48	3,431.4	292.7	-539.6	613.9	0.00	0.00	
3,600.0	13.30	298.48	3,528.8	303.7	-559.9	636.9	0.00	0.00	
3,700.0	13.30	298.48	3,626.1	314.6	-580.1	659.9	0.00	0.00	
3,800.0	13.30	298.48	3,723.4	325.6	-600.3	682.9	0.00	0.00	
3,900.0	13.30	298.48	3,820.7	336.6	-620.5	705.9	0.00	0.00	
4,000.0	13.30	298.48	3,918.0	347.5	-640.7	728.9	0.00	0.00	
4,100.0	13.30	298.48	4,015.4	358.5	-660.9	751.9	0.00	0.00	
4,200.0	13.30	298.48	4,112.7	369.5	-681.2	774.9	0.00	0.00	
4,300.0	13.30	298.48	4,210.0	380.4	-701.4	797.9	0.00	0.00	
4,400.0	13.30	298.48	4,307.3	391.4	-721.6	820.9	0.00	0.00	
4,500.0	13.30	298.48	4,404.6	402.4	-741.8	843.9	0.00	0.00	
4,600.0	13.30	298.48	4,501.9	413.3	-762.0	866.9	0.00	0.00	
4,700.0	13.30	298.48	4,599.3	424.3	-782.3	889.9	0.00	0.00	
4,800.0	13.30	298.48	4,696.6	435.3	-802.5	912.9	0.00	0.00	
4,900.0	13.30	298.48	4,793.9	446.2	-822.7	935.9	0.00	0.00	
4,948.5	13.30	298.48	4,841.1	451.6	-832.5	947.1	0.00	0.00	Start Drop -2.00

Database:	EDM 5000.1 US Multi Users DB	**Local Co-ordinate Reference:**	Well Antelope 13-29 (I 29 Pad)
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Project:	Weld County	**MD Reference:**	KBE @ 4601.0ft (Original Well Elev)
Site:	Antelope I 29 Pad	**North Reference:**	True
Well:	Antelope 13-29 (I 29 Pad)	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	DD		
Design:	Plan #1		

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)	Comments / Formations
5,000.0	12.27	298.48	4,891.3	457.0	-842.5	958.5	2.00	-2.00	
5,100.0	10.27	298.48	4,989.4	466.3	-859.7	978.0	2.00	-2.00	
5,200.0	8.27	298.48	5,088.1	474.0	-873.8	994.1	2.00	-2.00	
5,300.0	6.27	298.48	5,187.3	480.0	-885.0	1,006.8	2.00	-2.00	
5,400.0	4.27	298.48	5,286.8	484.4	-893.0	1,015.9	2.00	-2.00	
5,500.0	2.27	298.48	5,386.7	487.1	-898.0	1,021.6	2.00	-2.00	
5,600.0	0.27	298.48	5,486.7	488.2	-900.0	1,023.8	2.00	-2.00	
5,613.3	0.00	0.00	5,500.0	488.2	-900.0	1,023.9	2.00	-2.00	EOD; Inc=0° - Antelope 13-29 TGT
5,700.0	0.00	0.00	5,586.7	488.2	-900.0	1,023.9	0.00	0.00	
5,800.0	0.00	0.00	5,686.7	488.2	-900.0	1,023.9	0.00	0.00	
5,900.0	0.00	0.00	5,786.7	488.2	-900.0	1,023.9	0.00	0.00	
5,913.3	0.00	0.00	5,800.0	488.2	-900.0	1,023.9	0.00	0.00	Target #1
6,000.0	0.00	0.00	5,886.7	488.2	-900.0	1,023.9	0.00	0.00	
6,100.0	0.00	0.00	5,986.7	488.2	-900.0	1,023.9	0.00	0.00	
6,200.0	0.00	0.00	6,086.7	488.2	-900.0	1,023.9	0.00	0.00	
6,300.0	0.00	0.00	6,186.7	488.2	-900.0	1,023.9	0.00	0.00	
6,323.3	0.00	0.00	6,210.0	488.2	-900.0	1,023.9	0.00	0.00	Niobrara
6,400.0	0.00	0.00	6,286.7	488.2	-900.0	1,023.9	0.00	0.00	
6,500.0	0.00	0.00	6,386.7	488.2	-900.0	1,023.9	0.00	0.00	
6,600.0	0.00	0.00	6,486.7	488.2	-900.0	1,023.9	0.00	0.00	
6,700.0	0.00	0.00	6,586.7	488.2	-900.0	1,023.9	0.00	0.00	
6,800.0	0.00	0.00	6,686.7	488.2	-900.0	1,023.9	0.00	0.00	
6,813.3	0.00	0.00	6,700.0	488.2	-900.0	1,023.9	0.00	0.00	TD at 6813.3' MD - Antelope 13-29 BHL

Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Antelope 13-29 TGT - plan hits target center - Point	0.00	0.00	5,500.0	488.2	-900.0	1,379,291.64	3,319,191.71	40.368890	-104.354450
Antelope 13-29 BHL - plan hits target center - Circle (radius 50.0)	0.00	0.00	6,700.0	488.2	-900.0	1,379,291.64	3,319,191.71	40.368890	-104.354450

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
5,913.3	5,800.0	Target #1		0.00	
6,323.3	6,210.0	Niobrara		0.00	

Database:	EDM 5000.1 US Multi Users DB	**Local Co-ordinate Reference:**	Well Antelope 13-29 (I 29 Pad)
Company:	Bonanza Creek Energy Operating Company, LLC	**TVD Reference:**	KBE @ 4601.0ft (Original Well Elev)
Project:	Weld County	**MD Reference:**	KBE @ 4601.0ft (Original Well Elev)
Site:	Antelope I 29 Pad	**North Reference:**	True
Well:	Antelope 13-29 (I 29 Pad)	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	DD		
Design:	Plan #1		

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
500.0	500.0	0.0	0.0	KOP @ 500' MD
1,164.9	1,158.9	36.6	-67.5	EOB; Inc=13.3°
4,948.5	4,841.1	451.6	-832.5	Start Drop -2.00
5,613.3	5,500.0	488.2	-900.0	EOD; Inc=0°
6,813.3	6,700.0	488.2	-900.0	TD at 6813.3' MD

Bonanza Creek Energy Operating Company, LLC

Weld County
Antelope I 29 Pad
Antelope 13-29 (I 29 Pad)
DD
Plan #1

Anticollision Report

24 February, 2011

Company:	Bonanza Creek Energy Operating Company, LLC	**Local Co-ordinate Reference:**	Well Antelope 13-29 (I 29 Pad)
Project:	Weld County	**TVD Reference:**	KBE @ 4601.0ft (Original Well Elev)
Reference Site:	Antelope I 29 Pad	**MD Reference:**	KBE @ 4601.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Antelope 13-29 (I 29 Pad)	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	DD	**Database:**	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #1	**Offset TVD Reference:**	Offset Datum

Reference Plan #1

Filter type:	GLOBAL FILTER APPLIED: All wellpaths within 200'+ 100/1000 of reference		
Interpolation Method:	MD Interval 100.0ft	**Error Model:**	Systematic Ellipse
Depth Range:	Unlimited	**Scan Method:**	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 881.3ft	**Error Surface:**	Elliptical Conic
Warning Levels Evaluated at:	2.00 **Sigma**		

Survey Tool Program **Date** 2/24/2011

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	6,813.3	Plan #1 (DD)	MWD	Geolink MWD

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Antelope I 29 Pad						
Antelope 14-29 (I 29 Pad) - DD - Plan #1	0.0	0.0	36.4			
Antelope 14-29 (I 29 Pad) - DD - Plan #1	500.0	500.0	36.4	36.4	10,000.000	CC, ES
Antelope 23-29 (I 29 Pad) - DD - Plan #1	0.0	0.0	10.9			
Antelope 23-29 (I 29 Pad) - DD - Plan #1	500.0	500.0	10.9	10.9	10,000.000	CC, ES
Antelope 24-29 (I 29 Pad) - DD - Plan #1	0.0	0.0	25.5			
Antelope 24-29 (I 29 Pad) - DD - Plan #1	500.0	500.0	25.5	25.5	10,000.000	CC, ES
Antelope I 29 (I 29 Pad) - DD - Plan #1	0.0	0.0	14.6			
Antelope I 29 (I 29 Pad) - DD - Plan #1	500.0	500.0	14.6	14.6	10,000.000	CC, ES

Cathedral Energy Services

Anticollision Report

Company:	Bonanza Creek Energy Operating Company, LLC	**Local Co-ordinate Reference:**	Well Antelope 13-29 (I 29 Pad)
Project:	Weld County	**TVD Reference:**	KBE @ 4601.0ft (Original Well Elev)
Reference Site:	Antelope I 29 Pad	**MD Reference:**	KBE @ 4601.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Antelope 13-29 (I 29 Pad)	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	DD	**Database:**	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design Antelope I 29 Pad - Antelope 14-29 (I 29 Pad) - DD - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	180.00	-36.4	0.0	36.4				
100.0	100.0	100.0	100.0	0.2	0.2	180.00	-36.4	0.0	36.4	36.4	0.00	N/A	
200.0	200.0	200.0	200.0	0.3	0.3	180.00	-36.4	0.0	36.4	36.4	0.00	N/A	
300.0	300.0	300.0	300.0	0.5	0.5	180.00	-36.4	0.0	36.4	36.4	0.00	N/A	
400.0	400.0	400.0	400.0	0.7	0.7	180.00	-36.4	0.0	36.4	36.4	0.00	N/A	
500.0	500.0	500.0	500.0	0.9	0.9	180.00	-36.4	0.0	36.4	36.4	0.00	N/A	CC, ES
600.0	600.0	599.1	599.1	1.0	1.0	-118.76	-37.5	-1.3	38.4	38.4	0.00	N/A	
700.0	699.8	698.1	697.9	1.2	1.2	-119.47	-40.9	-5.2	44.3	44.3	0.00	N/A	
800.0	799.5	796.5	796.0	1.4	1.4	-120.27	-46.4	-11.7	54.0	54.0	0.00	N/A	
900.0	898.7	894.3	893.1	1.7	1.7	-120.97	-54.0	-20.6	67.7	67.7	0.00	N/A	
1,000.0	997.5	991.2	988.8	2.0	1.9	-121.47	-63.7	-32.0	85.1	85.1	0.00	N/A	
1,100.0	1,095.6	1,087.0	1,082.9	2.3	2.2	-121.80	-75.3	-45.6	106.4	106.4	0.00	N/A	
1,200.0	1,193.1	1,181.6	1,175.2	2.7	2.6	-122.04	-88.8	-61.4	131.2	131.2	0.00	N/A	
1,300.0	1,290.4	1,275.1	1,265.7	3.1	3.0	-121.68	-104.1	-79.3	158.2	158.2	0.00	N/A	
1,400.0	1,387.7	1,369.5	1,356.4	3.5	3.5	-120.74	-121.1	-99.3	186.9	186.9	0.00	N/A	
1,500.0	1,485.1	1,465.2	1,448.2	3.9	4.0	-119.98	-138.6	-119.7	215.7	215.7	0.00	N/A	
1,600.0	1,582.4	1,561.0	1,540.1	4.3	4.4	-119.39	-156.0	-140.2	244.5	244.5	0.00	N/A	
1,700.0	1,679.7	1,656.7	1,632.0	4.8	4.9	-118.93	-173.5	-160.6	273.4	273.4	0.00	N/A	
1,800.0	1,777.0	1,752.4	1,723.8	5.2	5.4	-118.56	-191.0	-181.1	302.3	302.3	0.00	N/A	
1,900.0	1,874.3	1,848.1	1,815.7	5.6	5.9	-118.25	-208.4	-201.6	331.2	331.2	0.00	N/A	
2,000.0	1,971.7	1,943.8	1,907.6	6.1	6.4	-118.00	-225.9	-222.0	360.1	360.1	0.00	N/A	
2,100.0	2,069.0	2,039.6	1,999.4	6.5	6.9	-117.78	-243.3	-242.5	389.0	389.0	0.00	N/A	
2,200.0	2,166.3	2,135.3	2,091.3	6.9	7.4	-117.59	-260.8	-262.9	418.0	418.0	0.00	N/A	
2,300.0	2,263.6	2,231.0	2,183.1	7.4	7.9	-117.42	-278.2	-283.4	446.9	446.9	0.00	N/A	
2,400.0	2,360.9	2,326.7	2,275.0	7.8	8.4	-117.28	-295.7	-303.9	475.8	475.8	0.00	N/A	
2,500.0	2,458.3	2,422.4	2,366.9	8.3	8.9	-117.15	-313.2	-324.3	504.7	504.7	0.00	N/A	
2,600.0	2,555.6	2,518.2	2,458.7	8.7	9.4	-117.03	-330.6	-344.8	533.7	533.7	0.00	N/A	
2,700.0	2,652.9	2,613.9	2,550.6	9.1	9.9	-116.93	-348.1	-365.2	562.6	562.6	0.00	N/A	
2,800.0	2,750.2	2,709.6	2,642.5	9.6	10.4	-116.84	-365.5	-385.7	591.5	591.5	0.00	N/A	
2,900.0	2,847.5	2,805.3	2,734.3	10.0	10.9	-116.75	-383.0	-406.2	620.4	620.4	0.00	N/A	
3,000.0	2,944.8	2,901.0	2,826.2	10.5	11.4	-116.68	-400.5	-426.6	649.4	649.4	0.00	N/A	
3,100.0	3,042.2	2,996.8	2,918.0	10.9	11.9	-116.61	-417.9	-447.1	678.3	678.3	0.00	N/A	
3,200.0	3,139.5	3,092.5	3,009.9	11.3	12.4	-116.54	-435.4	-467.6	707.3	707.3	0.00	N/A	
3,300.0	3,236.8	3,188.2	3,101.8	11.8	12.9	-116.49	-452.8	-488.0	736.2	736.2	0.00	N/A	
3,400.0	3,334.1	3,283.9	3,193.6	12.2	13.4	-116.43	-470.3	-508.5	765.1	765.1	0.00	N/A	
3,500.0	3,431.4	3,379.6	3,285.5	12.7	13.9	-116.38	-487.8	-528.9	794.1	794.1	0.00	N/A	
3,600.0	3,528.8	3,475.3	3,377.4	13.1	14.4	-116.33	-505.2	-549.4	823.0	823.0	0.00	N/A	
3,700.0	3,626.1	3,571.1	3,469.2	13.6	14.9	-116.29	-522.7	-569.9	851.9	851.9	0.00	N/A	
3,800.0	3,723.4	3,666.8	3,561.1	14.0	15.4	-116.25	-540.1	-590.3	880.9	880.9	0.00	N/A	

Company:	Bonanza Creek Energy Operating Company, LLC	**Local Co-ordinate Reference:**	Well Antelope 13-29 (I 29 Pad)
Project:	Weld County	**TVD Reference:**	KBE @ 4601.0ft (Original Well Elev)
Reference Site:	Antelope I 29 Pad	**MD Reference:**	KBE @ 4601.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Antelope 13-29 (I 29 Pad)	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	DD	**Database:**	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design Antelope I 29 Pad - Antelope 23-29 (I 29 Pad) - DD - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	0.00	10.9	0.0	10.9				
100.0	100.0	100.0	100.0	0.2	0.2	0.00	10.9	0.0	10.9	10.9	0.00	N/A	
200.0	200.0	200.0	200.0	0.3	0.3	0.00	10.9	0.0	10.9	10.9	0.00	N/A	
300.0	300.0	300.0	300.0	0.5	0.5	0.00	10.9	0.0	10.9	10.9	0.00	N/A	
400.0	400.0	400.0	400.0	0.7	0.7	0.00	10.9	0.0	10.9	10.9	0.00	N/A	
500.0	500.0	500.0	500.0	0.9	0.9	0.00	10.9	0.0	10.9	10.9	0.00	N/A	CC, ES
600.0	600.0	599.6	599.6	1.0	1.0	74.85	12.2	1.2	11.7	11.7	0.00	N/A	
700.0	699.8	698.8	698.7	1.2	1.2	101.62	16.0	4.7	16.7	16.7	0.00	N/A	
800.0	799.5	797.1	796.6	1.4	1.4	119.42	22.3	10.4	28.5	28.5	0.00	N/A	
900.0	898.7	894.3	893.0	1.7	1.7	128.13	30.9	18.3	46.6	46.6	0.00	N/A	
1,000.0	997.5	991.7	989.5	2.0	1.9	133.44	40.5	27.1	68.7	68.7	0.00	N/A	
1,100.0	1,095.6	1,088.3	1,085.3	2.3	2.2	137.48	50.0	35.8	93.6	93.6	0.00	N/A	
1,200.0	1,193.1	1,184.2	1,180.4	2.7	2.4	140.82	59.5	44.5	121.3	121.3	0.00	N/A	
1,300.0	1,290.4	1,279.9	1,275.2	3.1	2.7	143.24	68.9	53.1	149.8	149.8	0.00	N/A	
1,400.0	1,387.7	1,375.6	1,370.0	3.5	2.9	144.89	78.3	61.8	178.4	178.4	0.00	N/A	
1,500.0	1,485.1	1,471.3	1,464.9	3.9	3.2	146.08	87.8	70.4	207.2	207.2	0.00	N/A	
1,600.0	1,582.4	1,567.0	1,559.7	4.3	3.5	146.98	97.2	79.1	236.0	236.0	0.00	N/A	
1,700.0	1,679.7	1,662.7	1,654.6	4.8	3.7	147.69	106.6	87.7	264.9	264.9	0.00	N/A	
1,800.0	1,777.0	1,758.4	1,749.4	5.2	4.0	148.25	116.1	96.4	293.8	293.8	0.00	N/A	
1,900.0	1,874.3	1,854.1	1,844.2	5.6	4.3	148.72	125.5	105.0	322.7	322.7	0.00	N/A	
2,000.0	1,971.7	1,949.8	1,939.1	6.1	4.6	149.11	134.9	113.7	351.6	351.6	0.00	N/A	
2,100.0	2,069.0	2,045.5	2,033.9	6.5	4.8	149.44	144.4	122.3	380.5	380.5	0.00	N/A	
2,200.0	2,166.3	2,141.2	2,128.8	6.9	5.1	149.72	153.8	130.9	409.5	409.5	0.00	N/A	
2,300.0	2,263.6	2,236.9	2,223.6	7.4	5.4	149.97	163.2	139.6	438.4	438.4	0.00	N/A	
2,400.0	2,360.9	2,332.6	2,318.4	7.8	5.7	150.18	172.7	148.2	467.4	467.4	0.00	N/A	
2,500.0	2,458.3	2,428.3	2,413.3	8.3	5.9	150.37	182.1	156.9	496.4	496.4	0.00	N/A	
2,600.0	2,555.6	2,524.0	2,508.1	8.7	6.2	150.54	191.5	165.5	525.4	525.4	0.00	N/A	
2,700.0	2,652.9	2,619.7	2,603.0	9.1	6.5	150.69	201.0	174.2	554.3	554.3	0.00	N/A	
2,800.0	2,750.2	2,715.4	2,697.8	9.6	6.8	150.83	210.4	182.8	583.3	583.3	0.00	N/A	
2,900.0	2,847.5	2,811.1	2,792.6	10.0	7.0	150.95	219.8	191.5	612.3	612.3	0.00	N/A	
3,000.0	2,944.8	2,906.8	2,887.5	10.5	7.3	151.07	229.2	200.1	641.3	641.3	0.00	N/A	
3,100.0	3,042.2	3,002.5	2,982.3	10.9	7.6	151.17	238.7	208.8	670.3	670.3	0.00	N/A	
3,200.0	3,139.5	3,098.2	3,077.2	11.3	7.9	151.26	248.1	217.4	699.3	699.3	0.00	N/A	
3,300.0	3,236.8	3,193.9	3,172.0	11.8	8.2	151.35	257.5	226.1	728.3	728.3	0.00	N/A	
3,400.0	3,334.1	3,289.6	3,266.8	12.2	8.4	151.43	267.0	234.7	757.3	757.3	0.00	N/A	
3,500.0	3,431.4	3,385.3	3,361.7	12.7	8.7	151.50	276.4	243.3	786.2	786.2	0.00	N/A	
3,600.0	3,528.8	3,481.0	3,456.5	13.1	9.0	151.57	285.8	252.0	815.2	815.2	0.00	N/A	
3,700.0	3,626.1	3,576.7	3,551.4	13.6	9.3	151.64	295.3	260.6	844.2	844.2	0.00	N/A	
3,800.0	3,723.4	3,672.4	3,646.2	14.0	9.6	151.70	304.7	269.3	873.2	873.2	0.00	N/A	

Company:	Bonanza Creek Energy Operating Company, LLC	**Local Co-ordinate Reference:**	Well Antelope 13-29 (I 29 Pad)
Project:	Weld County	**TVD Reference:**	KBE @ 4601.0ft (Original Well Elev)
Reference Site:	Antelope I 29 Pad	**MD Reference:**	KBE @ 4601.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Antelope 13-29 (I 29 Pad)	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	DD	**Database:**	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design Antelope I 29 Pad - Antelope 24-29 (I 29 Pad) - DD - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	180.00	-25.5	0.0	25.5				
100.0	100.0	100.0	100.0	0.2	0.2	180.00	-25.5	0.0	25.5	25.5	0.00	N/A	
200.0	200.0	200.0	200.0	0.3	0.3	180.00	-25.5	0.0	25.5	25.5	0.00	N/A	
300.0	300.0	300.0	300.0	0.5	0.5	180.00	-25.5	0.0	25.5	25.5	0.00	N/A	
400.0	400.0	400.0	400.0	0.7	0.7	180.00	-25.5	0.0	25.5	25.5	0.00	N/A	
500.0	500.0	500.0	500.0	0.9	0.9	180.00	-25.5	0.0	25.5	25.5	0.00	N/A	CC, ES
600.0	600.0	599.1	599.1	1.0	1.0	-123.06	-27.0	0.7	28.0	28.0	0.00	N/A	
700.0	699.8	697.5	697.4	1.2	1.2	-132.71	-31.7	2.9	36.2	36.2	0.00	N/A	
800.0	799.5	794.7	794.2	1.4	1.4	-141.42	-39.2	6.5	51.2	51.2	0.00	N/A	
900.0	898.7	890.0	888.8	1.7	1.6	-147.38	-49.5	11.4	72.9	72.9	0.00	N/A	
1,000.0	997.5	982.9	980.7	2.0	1.9	-151.15	-62.2	17.4	101.3	101.3	0.00	N/A	
1,100.0	1,095.6	1,072.9	1,069.1	2.3	2.2	-153.53	-77.1	24.5	135.9	135.9	0.00	N/A	
1,200.0	1,193.1	1,164.3	1,158.6	2.7	2.5	-155.33	-93.8	32.4	175.1	175.1	0.00	N/A	
1,300.0	1,290.4	1,255.9	1,248.3	3.1	2.8	-156.71	-110.5	40.3	215.1	215.1	0.00	N/A	
1,400.0	1,387.7	1,347.4	1,338.0	3.5	3.2	-157.66	-127.2	48.2	255.1	255.1	0.00	N/A	
1,500.0	1,485.1	1,439.0	1,427.6	3.9	3.5	-158.35	-143.9	56.1	295.2	295.2	0.00	N/A	
1,600.0	1,582.4	1,530.5	1,517.3	4.3	3.9	-158.88	-160.7	64.0	335.3	335.3	0.00	N/A	
1,700.0	1,679.7	1,622.1	1,607.0	4.8	4.2	-159.29	-177.4	72.0	375.5	375.5	0.00	N/A	
1,800.0	1,777.0	1,713.7	1,696.6	5.2	4.5	-159.63	-194.1	79.9	415.6	415.6	0.00	N/A	
1,900.0	1,874.3	1,805.2	1,786.3	5.6	4.9	-159.90	-210.8	87.8	455.8	455.8	0.00	N/A	
2,000.0	1,971.7	1,896.8	1,876.0	6.1	5.2	-160.13	-227.5	95.7	496.0	496.0	0.00	N/A	
2,100.0	2,069.0	1,988.3	1,965.6	6.5	5.6	-160.33	-244.3	103.7	536.2	536.2	0.00	N/A	
2,200.0	2,166.3	2,079.9	2,055.3	6.9	6.0	-160.50	-261.0	111.6	576.4	576.4	0.00	N/A	
2,300.0	2,263.6	2,171.5	2,145.0	7.4	6.3	-160.64	-277.7	119.5	616.5	616.5	0.00	N/A	
2,400.0	2,360.9	2,263.0	2,234.6	7.8	6.7	-160.77	-294.4	127.4	656.7	656.7	0.00	N/A	
2,500.0	2,458.3	2,354.6	2,324.3	8.3	7.0	-160.89	-311.1	135.4	696.9	696.9	0.00	N/A	
2,600.0	2,555.6	2,446.1	2,414.0	8.7	7.4	-160.99	-327.9	143.3	737.1	737.1	0.00	N/A	
2,700.0	2,652.9	2,537.7	2,503.7	9.1	7.7	-161.08	-344.6	151.2	777.3	777.3	0.00	N/A	
2,800.0	2,750.2	2,629.2	2,593.3	9.6	8.1	-161.16	-361.3	159.1	817.5	817.5	0.00	N/A	
2,900.0	2,847.5	2,720.8	2,683.0	10.0	8.5	-161.23	-378.0	167.0	857.7	857.7	0.00	N/A	

Cathedral Energy Services

Anticollision Report

Company:	Bonanza Creek Energy Operating Company, LLC	**Local Co-ordinate Reference:**	Well Antelope 13-29 (I 29 Pad)
Project:	Weld County	**TVD Reference:**	KBE @ 4601.0ft (Original Well Elev)
Reference Site:	Antelope I 29 Pad	**MD Reference:**	KBE @ 4601.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Antelope 13-29 (I 29 Pad)	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	DD	**Database:**	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design Antelope I 29 Pad - Antelope I 29 (I 29 Pad) - DD - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-180.00	-14.6	0.0	14.6				
100.0	100.0	100.0	100.0	0.2	0.2	-180.00	-14.6	0.0	14.6	14.6	0.00	N/A	
200.0	200.0	200.0	200.0	0.3	0.3	-180.00	-14.6	0.0	14.6	14.6	0.00	N/A	
300.0	300.0	300.0	300.0	0.5	0.5	-180.00	-14.6	0.0	14.6	14.6	0.00	N/A	
400.0	400.0	400.0	400.0	0.7	0.7	-180.00	-14.6	0.0	14.6	14.6	0.00	N/A	
500.0	500.0	500.0	500.0	0.9	0.9	-180.00	-14.6	0.0	14.6	14.6	0.00	N/A	CC, ES
600.0	600.0	599.7	599.7	1.0	1.0	-118.68	-15.5	-1.5	16.3	16.3	0.00	N/A	
700.0	699.8	699.2	699.0	1.2	1.2	-119.09	-18.3	-5.8	21.6	21.6	0.00	N/A	
800.0	799.5	798.9	798.4	1.4	1.4	-122.10	-22.1	-11.8	29.7	29.7	0.00	N/A	
900.0	898.7	898.3	897.6	1.7	1.6	-127.92	-25.9	-17.7	39.8	39.8	0.00	N/A	
1,000.0	997.5	997.3	996.4	2.0	1.8	-134.14	-29.6	-23.6	52.5	52.5	0.00	N/A	
1,100.0	1,095.6	1,095.9	1,094.7	2.3	2.0	-139.79	-33.4	-29.4	68.2	68.2	0.00	N/A	
1,200.0	1,193.1	1,193.9	1,192.5	2.7	2.2	-144.58	-37.1	-35.3	87.0	87.0	0.00	N/A	
1,300.0	1,290.4	1,291.8	1,290.1	3.1	2.4	-147.98	-40.8	-41.1	106.8	106.8	0.00	N/A	
1,400.0	1,387.7	1,389.6	1,387.7	3.5	2.6	-150.31	-44.6	-46.9	126.8	126.8	0.00	N/A	
1,500.0	1,485.1	1,487.5	1,485.3	3.9	2.8	-152.00	-48.3	-52.7	147.0	147.0	0.00	N/A	
1,600.0	1,582.4	1,585.3	1,583.0	4.3	3.0	-153.28	-52.0	-58.6	167.3	167.3	0.00	N/A	
1,700.0	1,679.7	1,683.2	1,680.6	4.8	3.2	-154.29	-55.7	-64.4	187.6	187.6	0.00	N/A	
1,800.0	1,777.0	1,781.1	1,778.2	5.2	3.4	-155.10	-59.5	-70.2	208.0	208.0	0.00	N/A	
1,900.0	1,874.3	1,878.9	1,875.8	5.6	3.7	-155.77	-63.2	-76.0	228.4	228.4	0.00	N/A	
2,000.0	1,971.7	1,976.8	1,973.4	6.1	3.9	-156.32	-66.9	-81.9	248.9	248.9	0.00	N/A	
2,100.0	2,069.0	2,074.6	2,071.0	6.5	4.1	-156.79	-70.6	-87.7	269.4	269.4	0.00	N/A	
2,200.0	2,166.3	2,172.5	2,168.7	6.9	4.3	-157.20	-74.4	-93.5	289.8	289.8	0.00	N/A	
2,300.0	2,263.6	2,270.4	2,266.3	7.4	4.5	-157.55	-78.1	-99.3	310.3	310.3	0.00	N/A	
2,400.0	2,360.9	2,368.2	2,363.9	7.8	4.7	-157.86	-81.8	-105.1	330.8	330.8	0.00	N/A	
2,500.0	2,458.3	2,466.1	2,461.5	8.3	4.9	-158.13	-85.5	-111.0	351.3	351.3	0.00	N/A	
2,600.0	2,555.6	2,564.0	2,559.1	8.7	5.1	-158.37	-89.3	-116.8	371.8	371.8	0.00	N/A	
2,700.0	2,652.9	2,661.8	2,656.8	9.1	5.3	-158.59	-93.0	-122.6	392.4	392.4	0.00	N/A	
2,800.0	2,750.2	2,759.7	2,754.4	9.6	5.5	-158.78	-96.7	-128.4	412.9	412.9	0.00	N/A	
2,900.0	2,847.5	2,857.5	2,852.0	10.0	5.7	-158.96	-100.4	-134.3	433.4	433.4	0.00	N/A	
3,000.0	2,944.8	2,955.4	2,949.6	10.5	5.9	-159.12	-104.1	-140.1	454.0	454.0	0.00	N/A	
3,100.0	3,042.2	3,053.3	3,047.2	10.9	6.1	-159.27	-107.9	-145.9	474.5	474.5	0.00	N/A	
3,200.0	3,139.5	3,151.1	3,144.8	11.3	6.4	-159.40	-111.6	-151.7	495.0	495.0	0.00	N/A	
3,300.0	3,236.8	3,249.0	3,242.5	11.8	6.6	-159.53	-115.3	-157.6	515.6	515.6	0.00	N/A	
3,400.0	3,334.1	3,346.8	3,340.1	12.2	6.8	-159.64	-119.0	-163.4	536.1	536.1	0.00	N/A	
3,500.0	3,431.4	3,444.7	3,437.7	12.7	7.0	-159.75	-122.8	-169.2	556.7	556.7	0.00	N/A	
3,600.0	3,528.8	3,542.6	3,535.3	13.1	7.2	-159.85	-126.5	-175.0	577.2	577.2	0.00	N/A	
3,700.0	3,626.1	3,640.4	3,632.9	13.6	7.4	-159.94	-130.2	-180.8	597.8	597.8	0.00	N/A	
3,800.0	3,723.4	3,738.3	3,730.5	14.0	7.6	-160.02	-133.9	-186.7	618.3	618.3	0.00	N/A	
3,900.0	3,820.7	3,836.2	3,828.2	14.4	7.8	-160.10	-137.7	-192.5	638.9	638.9	0.00	N/A	
4,000.0	3,918.0	3,934.0	3,925.8	14.9	8.0	-160.18	-141.4	-198.3	659.4	659.4	0.00	N/A	
4,100.0	4,015.4	4,031.9	4,023.4	15.3	8.2	-160.25	-145.1	-204.1	680.0	680.0	0.00	N/A	
4,200.0	4,112.7	4,129.7	4,121.0	15.8	8.4	-160.32	-148.8	-210.0	700.5	700.5	0.00	N/A	
4,300.0	4,210.0	4,227.6	4,218.6	16.2	8.6	-160.38	-152.6	-215.8	721.1	721.1	0.00	N/A	
4,400.0	4,307.3	4,325.5	4,316.2	16.7	8.9	-160.44	-156.3	-221.6	741.6	741.6	0.00	N/A	
4,500.0	4,404.6	4,423.3	4,413.9	17.1	9.1	-160.49	-160.0	-227.4	762.2	762.2	0.00	N/A	
4,600.0	4,501.9	4,521.2	4,511.5	17.6	9.3	-160.55	-163.7	-233.3	782.8	782.8	0.00	N/A	
4,700.0	4,599.3	4,619.0	4,609.1	18.0	9.5	-160.60	-167.4	-239.1	803.3	803.3	0.00	N/A	
4,800.0	4,696.6	4,716.9	4,706.7	18.4	9.7	-160.64	-171.2	-244.9	823.9	823.9	0.00	N/A	
4,900.0	4,793.9	4,814.4	4,804.0	18.9	9.9	-160.69	-174.9	-250.7	844.4	844.4	0.00	N/A	
5,000.0	4,891.3	4,907.4	4,896.9	19.3	10.1	-160.90	-177.5	-254.8	864.9	864.9	0.00	N/A	

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

Company:	Bonanza Creek Energy Operating Company, LLC	**Local Co-ordinate Reference:**	Well Antelope 13-29 (I 29 Pad)
Project:	Weld County	**TVD Reference:**	KBE @ 4601.0ft (Original Well Elev)
Reference Site:	Antelope I 29 Pad	**MD Reference:**	KBE @ 4601.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Antelope 13-29 (I 29 Pad)	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	DD	**Database:**	EDM 5000.1 US Multi Users DB
Reference Design:	Plan #1	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to KBE @ 4601.0ft (Original Well Elev)
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000 °

Coordinates are relative to: Antelope 13-29 (I 29 Pad)
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.74°