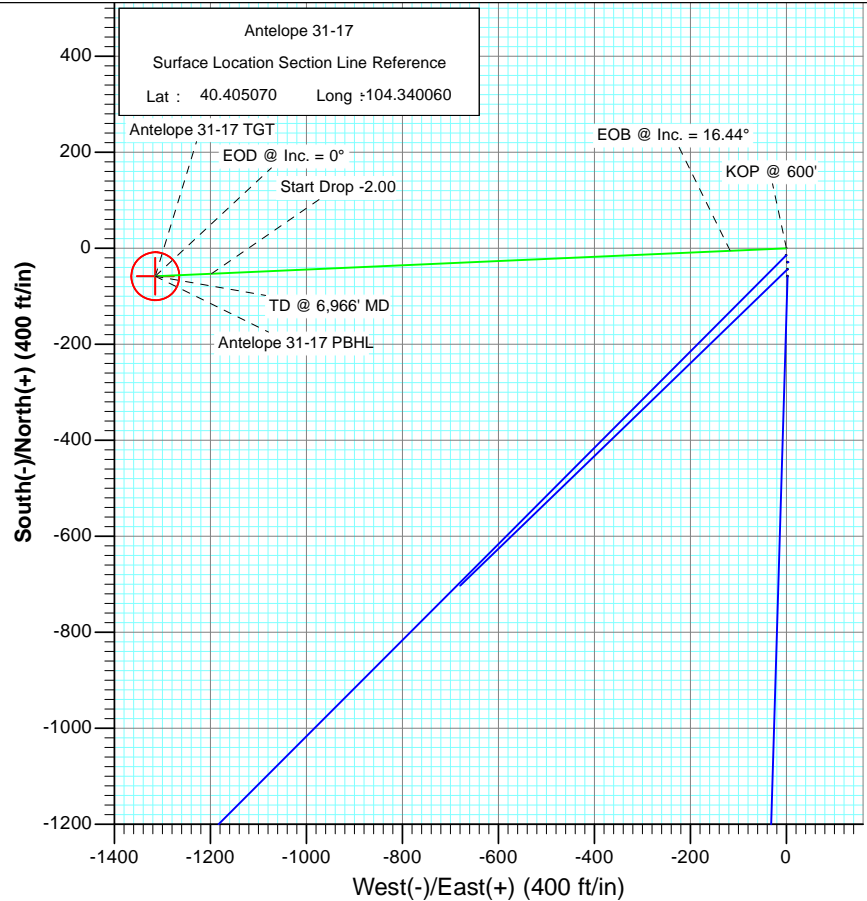

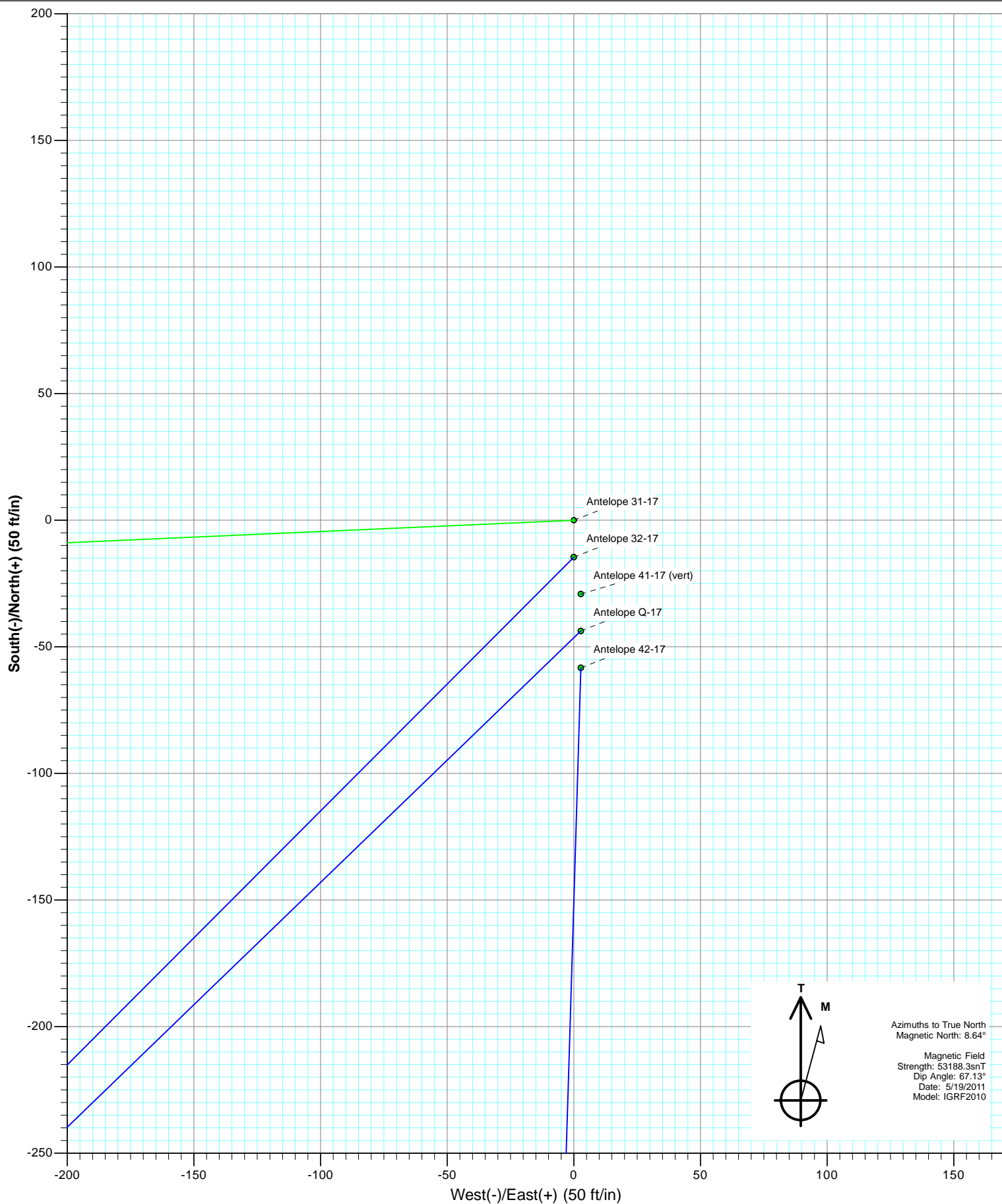
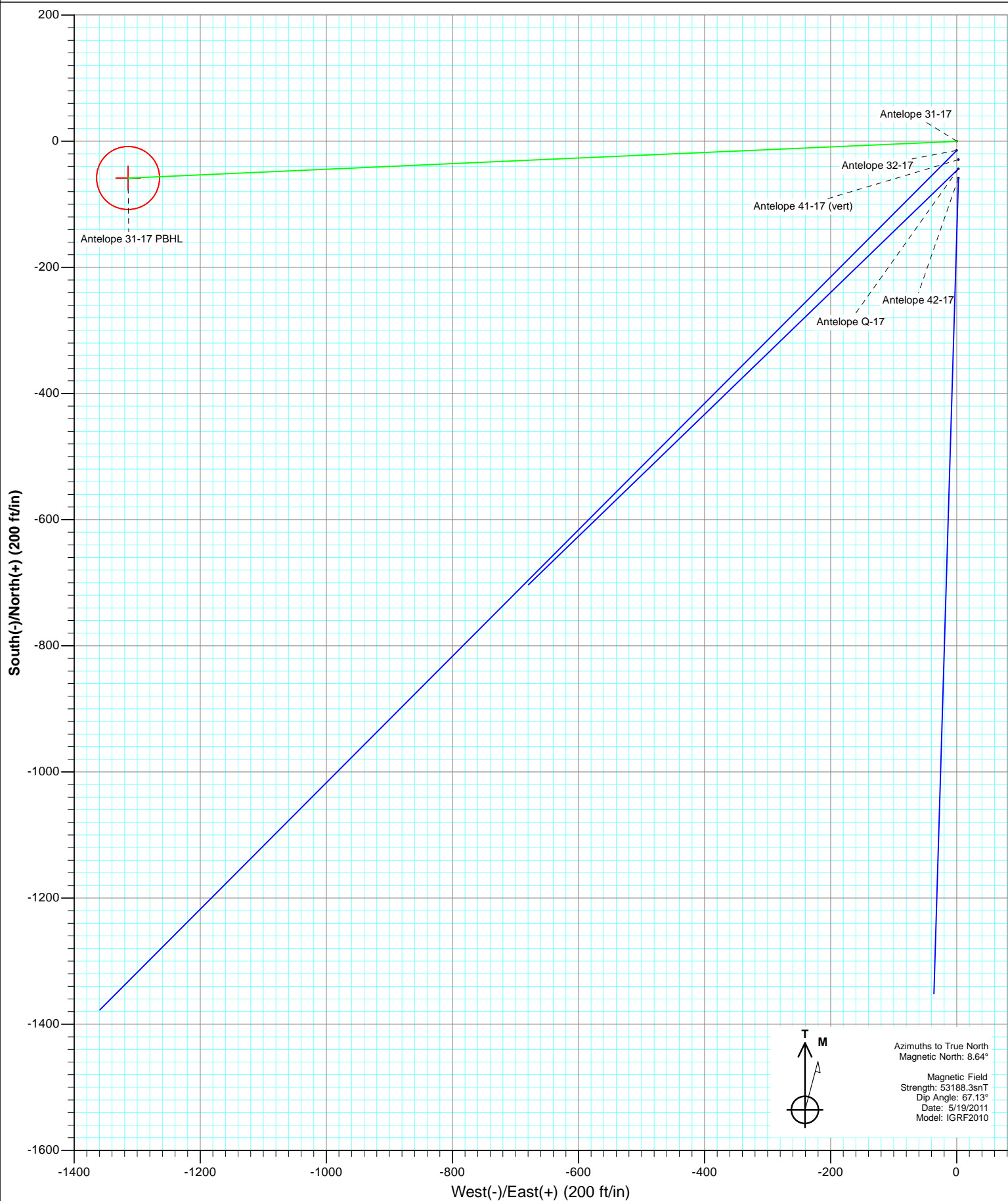


SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1422.0	16.44	267.46	1410.7	-5.2	-117.0	2.00	267.46	117.1	
4	5243.7	16.44	267.46	5076.3	-53.1	-1197.5	0.00	0.00	1198.7	
5	6065.7	0.00	0.00	5887.0	-58.2	-1314.5	2.00	180.00	1315.8	Antelope 31-17 TGT
6	6965.7	0.00	0.00	6787.0	-58.2	-1314.5	0.00	0.00	1315.8	Antelope 31-17 PBHL



FORMATION TOP DETAILS						
TVDPath 6287.0		MDPath 6465.7		Formation Niobrara		
<div><div></div><div><p>Azimuths to True North Magnetic North: 8.64°</p><p>Magnetic Field Strength: 53188.3snT Dip Angle: 67.13° Date: 5/19/2010 Model: IGRF2010</p></div></div>						
Plan #2 Antelope 31-17 115XXX; SC						
KBE @ 4717.0ft (Original Well Elev) North American Datum 1983 Well Antelope 31-17, True North						
Type TD	Target No Target (Freehand)	Azimuth 267.46	Origin Type Slot	N/S 0.0	E/W From 0.0	TVD 0.0
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	
Antelope 31-17 TGT	5887.0	-58.2	-1314.5	40.404910	-104.344780	
Antelope 31-17 PBHL	6787.0	-58.2	-1314.5	40.404910	-104.344780	





Planning Report

Database:	EDM 5000.1 US Multi Users DB	Local Co-ordinate Reference:	Well Antelope 31-17
Company:	Bonanza Creek Energy Operating Company, LLC	TVD Reference:	KBE @ 4717.0ft (Original Well Elev)
Project:	Weld County	MD Reference:	KBE @ 4717.0ft (Original Well Elev)
Site:	Antelope 41-17	North Reference:	True
Well:	Antelope 31-17	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #2		

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 41-17			
Site Position:		Northing:	1,392,513.35 ft	Latitude:	40.405050
From:	Lat/Long	Easting:	3,322,856.02 ft	Longitude:	-104.340680
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	0.75 °

Well	Antelope 31-17					
Well Position	+N/-S	0.0 ft	Northing:	1,392,522.88 ft	Latitude:	40.405070
	+E/-W	0.0 ft	Easting:	3,323,028.58 ft	Longitude:	-104.340060
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,707.0 ft

Wellbore	DD				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2010	5/19/2011	8.65	67.13	53,188

Design	Plan #2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.0	0.0	0.0	267.46

Plan Sections										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)	(°)	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,422.0	16.44	267.46	1,410.7	-5.2	-117.0	2.00	2.00	0.00	267.46	
5,243.7	16.44	267.46	5,076.3	-53.1	-1,197.5	0.00	0.00	0.00	0.00	
6,065.7	0.00	0.00	5,887.0	-58.2	-1,314.5	2.00	-2.00	0.00	180.00	Antelope 31-17 TGT
6,965.7	0.00	0.00	6,787.0	-58.2	-1,314.5	0.00	0.00	0.00	0.00	Antelope 31-17 PBHL

Planning Report

Database:	EDM 5000.1 US Multi Users DB	Local Co-ordinate Reference:	Well Antelope 31-17
Company:	Bonanza Creek Energy Operating Company, LLC	TVD Reference:	KBE @ 4717.0ft (Original Well Elev)
Project:	Weld County	MD Reference:	KBE @ 4717.0ft (Original Well Elev)
Site:	Antelope 41-17	North Reference:	True
Well:	Antelope 31-17	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #2		

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	
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	KOP @ 600'
700.0	2.00	267.46	700.0	-0.1	-1.7	1.7	2.00	2.00	
800.0	4.00	267.46	799.8	-0.3	-7.0	7.0	2.00	2.00	
900.0	6.00	267.46	899.5	-0.7	-15.7	15.7	2.00	2.00	
1,000.0	8.00	267.46	998.7	-1.2	-27.9	27.9	2.00	2.00	
1,100.0	10.00	267.46	1,097.5	-1.9	-43.5	43.5	2.00	2.00	
1,200.0	12.00	267.46	1,195.6	-2.8	-62.5	62.6	2.00	2.00	
1,300.0	14.00	267.46	1,293.1	-3.8	-85.0	85.1	2.00	2.00	
1,400.0	16.00	267.46	1,389.6	-4.9	-110.9	111.0	2.00	2.00	
1,422.0	16.44	267.46	1,410.7	-5.2	-117.0	117.1	2.00	2.00	EOB @ Inc. = 16.44°
1,500.0	16.44	267.46	1,485.6	-6.2	-139.1	139.2	0.00	0.00	
1,600.0	16.44	267.46	1,581.5	-7.4	-167.3	167.5	0.00	0.00	
1,700.0	16.44	267.46	1,677.4	-8.7	-195.6	195.8	0.00	0.00	
1,800.0	16.44	267.46	1,773.3	-9.9	-223.9	224.1	0.00	0.00	
1,900.0	16.44	267.46	1,869.2	-11.2	-252.1	252.4	0.00	0.00	
2,000.0	16.44	267.46	1,965.1	-12.4	-280.4	280.7	0.00	0.00	
2,100.0	16.44	267.46	2,061.1	-13.7	-308.7	309.0	0.00	0.00	
2,200.0	16.44	267.46	2,157.0	-14.9	-337.0	337.3	0.00	0.00	
2,300.0	16.44	267.46	2,252.9	-16.2	-365.2	365.6	0.00	0.00	
2,400.0	16.44	267.46	2,348.8	-17.4	-393.5	393.9	0.00	0.00	
2,500.0	16.44	267.46	2,444.7	-18.7	-421.8	422.2	0.00	0.00	
2,600.0	16.44	267.46	2,540.6	-19.9	-450.0	450.5	0.00	0.00	
2,700.0	16.44	267.46	2,636.5	-21.2	-478.3	478.8	0.00	0.00	
2,800.0	16.44	267.46	2,732.4	-22.4	-506.6	507.1	0.00	0.00	
2,900.0	16.44	267.46	2,828.3	-23.7	-534.9	535.4	0.00	0.00	
3,000.0	16.44	267.46	2,924.3	-25.0	-563.1	563.7	0.00	0.00	
3,100.0	16.44	267.46	3,020.2	-26.2	-591.4	592.0	0.00	0.00	
3,200.0	16.44	267.46	3,116.1	-27.5	-619.7	620.3	0.00	0.00	
3,300.0	16.44	267.46	3,212.0	-28.7	-648.0	648.6	0.00	0.00	
3,400.0	16.44	267.46	3,307.9	-30.0	-676.2	676.9	0.00	0.00	
3,500.0	16.44	267.46	3,403.8	-31.2	-704.5	705.2	0.00	0.00	
3,600.0	16.44	267.46	3,499.7	-32.5	-732.8	733.5	0.00	0.00	
3,700.0	16.44	267.46	3,595.6	-33.7	-761.0	761.8	0.00	0.00	
3,800.0	16.44	267.46	3,691.6	-35.0	-789.3	790.1	0.00	0.00	
3,900.0	16.44	267.46	3,787.5	-36.2	-817.6	818.4	0.00	0.00	
4,000.0	16.44	267.46	3,883.4	-37.5	-845.9	846.7	0.00	0.00	
4,100.0	16.44	267.46	3,979.3	-38.7	-874.1	875.0	0.00	0.00	
4,200.0	16.44	267.46	4,075.2	-40.0	-902.4	903.3	0.00	0.00	
4,300.0	16.44	267.46	4,171.1	-41.2	-930.7	931.6	0.00	0.00	
4,400.0	16.44	267.46	4,267.0	-42.5	-958.9	959.9	0.00	0.00	
4,500.0	16.44	267.46	4,362.9	-43.7	-987.2	988.2	0.00	0.00	
4,600.0	16.44	267.46	4,458.9	-45.0	-1,015.5	1,016.5	0.00	0.00	
4,700.0	16.44	267.46	4,554.8	-46.2	-1,043.8	1,044.8	0.00	0.00	
4,800.0	16.44	267.46	4,650.7	-47.5	-1,072.0	1,073.1	0.00	0.00	
4,900.0	16.44	267.46	4,746.6	-48.8	-1,100.3	1,101.4	0.00	0.00	
5,000.0	16.44	267.46	4,842.5	-50.0	-1,128.6	1,129.7	0.00	0.00	

Planning Report

Database:	EDM 5000.1 US Multi Users DB	Local Co-ordinate Reference:	Well Antelope 31-17
Company:	Bonanza Creek Energy Operating Company, LLC	TVD Reference:	KBE @ 4717.0ft (Original Well Elev)
Project:	Weld County	MD Reference:	KBE @ 4717.0ft (Original Well Elev)
Site:	Antelope 41-17	North Reference:	True
Well:	Antelope 31-17	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #2		

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
5,100.0	16.44	267.46	4,938.4	-51.3	-1,156.8	1,158.0	0.00	0.00	
5,200.0	16.44	267.46	5,034.3	-52.5	-1,185.1	1,186.3	0.00	0.00	
5,243.7	16.44	267.46	5,076.3	-53.1	-1,197.5	1,198.7	0.00	0.00	Start Drop -2.00
5,300.0	15.31	267.46	5,130.4	-53.7	-1,212.9	1,214.0	2.00	-2.00	
5,400.0	13.31	267.46	5,227.3	-54.8	-1,237.6	1,238.8	2.00	-2.00	
5,500.0	11.31	267.46	5,325.0	-55.8	-1,258.9	1,260.1	2.00	-2.00	
5,600.0	9.31	267.46	5,423.4	-56.6	-1,276.7	1,278.0	2.00	-2.00	
5,700.0	7.31	267.46	5,522.3	-57.2	-1,291.2	1,292.5	2.00	-2.00	
5,800.0	5.31	267.46	5,621.7	-57.7	-1,302.2	1,303.5	2.00	-2.00	
5,900.0	3.31	267.46	5,721.4	-58.0	-1,309.7	1,311.0	2.00	-2.00	
6,000.0	1.31	267.46	5,821.3	-58.2	-1,313.7	1,315.0	2.00	-2.00	
6,065.7	0.00	0.00	5,887.0	-58.2	-1,314.5	1,315.8	2.00	-2.00	EOD @ Inc. = 0°
6,100.0	0.00	0.00	5,921.3	-58.2	-1,314.5	1,315.8	0.00	0.00	
6,200.0	0.00	0.00	6,021.3	-58.2	-1,314.5	1,315.8	0.00	0.00	
6,300.0	0.00	0.00	6,121.3	-58.2	-1,314.5	1,315.8	0.00	0.00	
6,400.0	0.00	0.00	6,221.3	-58.2	-1,314.5	1,315.8	0.00	0.00	
6,465.7	0.00	0.00	6,287.0	-58.2	-1,314.5	1,315.8	0.00	0.00	Niobrara
6,500.0	0.00	0.00	6,321.3	-58.2	-1,314.5	1,315.8	0.00	0.00	
6,600.0	0.00	0.00	6,421.3	-58.2	-1,314.5	1,315.8	0.00	0.00	
6,700.0	0.00	0.00	6,521.3	-58.2	-1,314.5	1,315.8	0.00	0.00	
6,800.0	0.00	0.00	6,621.3	-58.2	-1,314.5	1,315.8	0.00	0.00	
6,900.0	0.00	0.00	6,721.3	-58.2	-1,314.5	1,315.8	0.00	0.00	
6,965.7	0.00	0.00	6,787.0	-58.2	-1,314.5	1,315.8	0.00	0.00	TD @ 6,966' MD

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
Antelope 31-17 PBHL	0.00	0.00	6,787.0	-58.2	-1,314.5	1,392,447.45	3,321,714.97	40.404910	-104.344780
- plan hits target center									
- Circle (radius 50.0)									
Antelope 31-17 TGT	0.00	0.00	5,887.0	-58.2	-1,314.5	1,392,447.45	3,321,714.97	40.404910	-104.344780
- plan hits target center									
- Point									

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
6,465.7	6,287.0	Niobrara		0.00	

Planning Report

Database:	EDM 5000.1 US Multi Users DB	Local Co-ordinate Reference:	Well Antelope 31-17
Company:	Bonanza Creek Energy Operating Company, LLC	TVD Reference:	KBE @ 4717.0ft (Original Well Elev)
Project:	Weld County	MD Reference:	KBE @ 4717.0ft (Original Well Elev)
Site:	Antelope 41-17	North Reference:	True
Well:	Antelope 31-17	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #2		

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
600.0	600.0	0.0	0.0	KOP @ 600'
1,422.0	1,410.7	-5.2	-117.0	EOB @ Inc. = 16.44°
5,243.7	5,076.3	-53.1	-1,197.5	Start Drop -2.00
6,065.7	5,887.0	-58.2	-1,314.5	EOD @ Inc. = 0°
6,965.7	6,787.0	-58.2	-1,314.5	TD @ 6,966' MD

Bonanza Creek Energy Operating Company, LLC

Weld County

Antelope 41-17

Antelope 31-17

DD

Plan #2

Anticollision Report

27 May, 2011

Anticollision Report

Company:	Bonanza Creek Energy Operating Company, LLC	Local Co-ordinate Reference:	Well Antelope 31-17
Project:	Weld County	TVD Reference:	KBE @ 4717.0ft (Original Well Elev)
Reference Site:	Antelope 41-17	MD Reference:	KBE @ 4717.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Antelope 31-17	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 #2	Offset TVD Reference:	Offset Datum

Reference	Plan #2		
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 100.0ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program	Date	5/27/2011		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	6,965.7	Plan #2 (DD)	MWD	Geolink MWD

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						
Antelope 41-17						
Antelope 32-17 - DD - Plan #2	0.0	0.0	14.6			
Antelope 32-17 - DD - Plan #2	500.0	500.0	14.6	14.6	10,000.000	CC, ES
Antelope 41-17 (vert) - V - Plan #2	0.0	0.0	29.3			
Antelope 41-17 (vert) - V - Plan #2	600.0	600.0	29.3	29.3	10,000.000	CC, ES
Antelope 42-17 - DD - Plan #2	0.0	0.0	58.4			
Antelope 42-17 - DD - Plan #2	600.0	600.0	58.4	58.4	10,000.000	CC, ES
Antelope Q-17 - DD - Plan #2	0.0	0.0	43.8			
Antelope Q-17 - DD - Plan #2	600.0	600.0	43.8	43.8	10,000.000	CC, ES

Anticollision Report

Company:	Bonanza Creek Energy Operating Company, LLC	Local Co-ordinate Reference:	Well Antelope 31-17
Project:	Weld County	TVD Reference:	KBE @ 4717.0ft (Original Well Elev)
Reference Site:	Antelope 41-17	MD Reference:	KBE @ 4717.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Antelope 31-17	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 #2	Offset TVD Reference:	Offset Datum

Offset Design Antelope 41-17 - Antelope 32-17 - DD - Plan #2													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)	Total Uncertainty Axis	Separation Factor		
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	599.6	599.6	1.0	1.0	-175.57	-15.8	-1.2	15.9	15.9	0.00	N/A		
700.0	700.0	699.0	698.9	1.2	1.2	-78.17	-19.5	-4.9	19.7	19.7	0.00	N/A		
800.0	799.8	798.2	797.7	1.4	1.4	-78.20	-25.6	-11.0	25.6	25.6	0.00	N/A		
900.0	899.5	897.1	895.8	1.6	1.7	-80.49	-34.0	-19.4	33.7	33.7	0.00	N/A		
1,000.0	998.7	995.5	993.0	1.8	1.9	-83.42	-44.8	-30.2	44.0	44.0	0.00	N/A		
1,100.0	1,097.5	1,093.4	1,089.2	2.1	2.3	-86.26	-57.9	-43.2	56.6	56.6	0.00	N/A		
1,200.0	1,195.6	1,190.7	1,184.1	2.4	2.7	-88.76	-73.2	-58.5	71.5	71.5	0.00	N/A		
1,300.0	1,293.1	1,287.4	1,277.5	2.8	3.1	-90.85	-90.7	-75.9	88.8	88.8	0.00	N/A		

Anticollision Report

Company:	Bonanza Creek Energy Operating Company, LLC	Local Co-ordinate Reference:	Well Antelope 31-17
Project:	Weld County	TVD Reference:	KBE @ 4717.0ft (Original Well Elev)
Reference Site:	Antelope 41-17	MD Reference:	KBE @ 4717.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Antelope 31-17	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 #2	Offset TVD Reference:	Offset Datum

Offset Design		Antelope 41-17 - Antelope 41-17 (vert) - V - Plan #2											Offset Site Error:		0.0 ft
Survey Program:		0-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)	Total Uncertainty Axis	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	174.54	-29.1	2.8	29.3						
100.0	100.0	100.0	100.0	0.2	0.2	174.54	-29.1	2.8	29.3	29.3	0.00	N/A			
200.0	200.0	200.0	200.0	0.3	0.3	174.54	-29.1	2.8	29.3	29.3	0.00	N/A			
300.0	300.0	300.0	300.0	0.5	0.5	174.54	-29.1	2.8	29.3	29.3	0.00	N/A			
400.0	400.0	400.0	400.0	0.7	0.7	174.54	-29.1	2.8	29.3	29.3	0.00	N/A			
500.0	500.0	500.0	500.0	0.9	0.9	174.54	-29.1	2.8	29.3	29.3	0.00	N/A			
600.0	600.0	600.0	600.0	1.0	1.0	174.54	-29.1	2.8	29.3	29.3	0.00	N/A CC, ES			
700.0	700.0	700.0	700.0	1.2	1.2	-96.31	-29.1	2.8	29.4	29.4	0.00	N/A			
800.0	799.8	799.8	799.8	1.4	1.4	-106.12	-29.1	2.8	30.4	30.4	0.00	N/A			
900.0	899.5	899.5	899.5	1.6	1.6	-120.30	-29.1	2.8	33.9	33.9	0.00	N/A			
1,000.0	998.7	998.7	998.7	1.8	1.7	-134.85	-29.1	2.8	41.4	41.4	0.00	N/A			
1,100.0	1,097.5	1,097.5	1,097.5	2.1	1.9	-146.59	-29.1	2.8	53.7	53.7	0.00	N/A			
1,200.0	1,195.6	1,195.6	1,195.6	2.4	2.1	-154.99	-29.1	2.8	70.5	70.5	0.00	N/A			
1,300.0	1,293.1	1,293.1	1,293.1	2.8	2.2	-160.81	-29.1	2.8	91.4	91.4	0.00	N/A			

Anticollision Report

Company:	Bonanza Creek Energy Operating Company, LLC	Local Co-ordinate Reference:	Well Antelope 31-17
Project:	Weld County	TVD Reference:	KBE @ 4717.0ft (Original Well Elev)
Reference Site:	Antelope 41-17	MD Reference:	KBE @ 4717.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Antelope 31-17	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 #2	Offset TVD Reference:	Offset Datum

Offset Design Antelope 41-17 - Antelope 42-17 - DD - Plan #2													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)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	177.26	-58.3	2.8	58.4					
100.0	100.0	100.0	100.0	0.2	0.2	177.26	-58.3	2.8	58.4	58.4	0.00	N/A		
200.0	200.0	200.0	200.0	0.3	0.3	177.26	-58.3	2.8	58.4	58.4	0.00	N/A		
300.0	300.0	300.0	300.0	0.5	0.5	177.26	-58.3	2.8	58.4	58.4	0.00	N/A		
400.0	400.0	400.0	400.0	0.7	0.7	177.26	-58.3	2.8	58.4	58.4	0.00	N/A		
500.0	500.0	500.0	500.0	0.9	0.9	177.26	-58.3	2.8	58.4	58.4	0.00	N/A		
600.0	600.0	600.0	600.0	1.0	1.0	177.26	-58.3	2.8	58.4	58.4	0.00	N/A CC, ES		
700.0	700.0	698.0	697.9	1.2	1.2	-91.67	-60.0	2.7	60.1	60.1	0.00	N/A		
800.0	799.8	795.6	795.4	1.4	1.4	-95.59	-65.0	2.6	65.5	65.5	0.00	N/A		
900.0	899.5	892.6	892.1	1.6	1.6	-100.77	-73.2	2.3	75.1	75.1	0.00	N/A		
1,000.0	998.7	988.6	987.5	1.8	1.8	-106.03	-84.6	2.0	89.3	89.3	0.00	N/A		

Anticollision Report

Company:	Bonanza Creek Energy Operating Company, LLC	Local Co-ordinate Reference:	Well Antelope 31-17
Project:	Weld County	TVD Reference:	KBE @ 4717.0ft (Original Well Elev)
Reference Site:	Antelope 41-17	MD Reference:	KBE @ 4717.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Antelope 31-17	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 #2	Offset TVD Reference:	Offset Datum

Offset Design Antelope 41-17 - Antelope Q-17 - DD - Plan #2													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)	Total Uncertainty Axis	Separation Factor	
0.0	0.0	0.0	0.0	0.0	0.0	176.35	-43.7	2.8	43.8				
100.0	100.0	100.0	100.0	0.2	0.2	176.35	-43.7	2.8	43.8	43.8	0.00	N/A	
200.0	200.0	200.0	200.0	0.3	0.3	176.35	-43.7	2.8	43.8	43.8	0.00	N/A	
300.0	300.0	300.0	300.0	0.5	0.5	176.35	-43.7	2.8	43.8	43.8	0.00	N/A	
400.0	400.0	400.0	400.0	0.7	0.7	176.35	-43.7	2.8	43.8	43.8	0.00	N/A	
500.0	500.0	500.0	500.0	0.9	0.9	176.35	-43.7	2.8	43.8	43.8	0.00	N/A	
600.0	600.0	600.0	600.0	1.0	1.0	176.35	-43.7	2.8	43.8	43.8	0.00	N/A CC, ES	
700.0	700.0	699.0	699.0	1.2	1.2	-91.63	-44.9	1.6	45.0	45.0	0.00	N/A	
800.0	799.8	797.9	797.8	1.4	1.4	-93.03	-48.5	-2.1	48.4	48.4	0.00	N/A	
900.0	899.5	896.7	896.1	1.6	1.6	-94.95	-54.4	-8.3	54.3	54.3	0.00	N/A	
1,000.0	998.7	995.1	993.9	1.8	1.8	-97.00	-62.6	-16.8	62.6	62.6	0.00	N/A	
1,100.0	1,097.5	1,093.3	1,090.8	2.1	2.1	-98.93	-73.2	-27.7	73.3	73.3	0.00	N/A	
1,200.0	1,195.6	1,191.3	1,187.1	2.4	2.4	-100.65	-85.9	-40.9	86.3	86.3	0.00	N/A	

Anticollision Report

Company:	Bonanza Creek Energy Operating Company, LLC	Local Co-ordinate Reference:	Well Antelope 31-17
Project:	Weld County	TVD Reference:	KBE @ 4717.0ft (Original Well Elev)
Reference Site:	Antelope 41-17	MD Reference:	KBE @ 4717.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Antelope 31-17	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 #2	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KBE @ 4717.0ft (Original Well Elev)

Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

Coordinates are relative to: Antelope 31-17

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.75°

