



## Planning Report

<b>Database:</b>	EDM 5000.1 US Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Antelope 23-20
<b>Company:</b>	Bonanza Creek Energy Operating Company, LLC	<b>TVD Reference:</b>	WELL @ 4673.0ft (Original Well Elev)
<b>Project:</b>	Weld County	<b>MD Reference:</b>	WELL @ 4673.0ft (Original Well Elev)
<b>Site:</b>	Antelope 24-20 Pad	<b>North Reference:</b>	True
<b>Well:</b>	Antelope 23-20	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	DD		
<b>Design:</b>	Plan #1		

<b>Project</b>	Weld County		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Colorado Northern Zone		

Site		Antelope 24-20 Pad			
Site Position:		Northing:	1,383,235.99 ft	Latitude:	40.379670
From:	Lat/Long	Easting:	3,320,497.62 ft	Longitude:	-104.349580
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	0.74 °

Well	Antelope 23-20					
Well Position	+N/-S	0.0 ft	Northing:	1,383,236.14 ft	Latitude:	40.379670
	+E/-W	0.0 ft	Easting:	3,320,511.55 ft	Longitude:	-104.349530
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,663.0 ft

<b>Wellbore</b>	DD				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination</b>	<b>Dip Angle</b>	<b>Field Strength</b>
			(°)	(°)	(nT)
	IGRF2010	5/13/2011	8.65	67.11	53,176

<b>Design</b>	Plan #1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD)</b>	<b>+N/-S</b>	<b>+E/-W</b>	<b>Direction</b>
	(ft)	(ft)	(ft)	(°)
	0.0	0.0	0.0	0.36

<b>Plan Sections</b>										
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	
981.9	14.46	0.36	976.8	60.5	0.4	3.00	3.00	0.00	0.36	
5,780.2	14.46	0.36	5,623.2	1,258.3	8.0	0.00	0.00	0.00	0.00	
6,262.1	0.00	0.00	6,100.0	1,318.8	8.4	3.00	-3.00	0.00	180.00	Antelope 23-20 TGT
6,912.1	0.00	0.00	6,750.0	1,318.8	8.4	0.00	0.00	0.00	0.00	Antelope 23-20 PBHL

# Planning Report

**Database:** EDM 5000.1 US Multi Users DB  
**Company:** Bonanza Creek Energy Operating Company, LLC  
**Project:** Weld County  
**Site:** Antelope 24-20 Pad  
**Well:** Antelope 23-20  
**Wellbore:** DD  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well Antelope 23-20  
**TVD Reference:** WELL @ 4673.0ft (Original Well Elev)  
**MD Reference:** WELL @ 4673.0ft (Original Well Elev)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

## 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'
600.0	3.00	0.36	600.0	2.6	0.0	2.6	3.00	3.00	
700.0	6.00	0.36	699.6	10.5	0.1	10.5	3.00	3.00	
800.0	9.00	0.36	798.8	23.5	0.1	23.5	3.00	3.00	
900.0	12.00	0.36	897.1	41.7	0.3	41.7	3.00	3.00	
981.9	14.46	0.36	976.8	60.5	0.4	60.5	3.00	3.00	EOB @ Inc. 14.46°
1,000.0	14.46	0.36	994.3	65.0	0.4	65.0	0.00	0.00	
1,100.0	14.46	0.36	1,091.2	90.0	0.6	90.0	0.00	0.00	
1,200.0	14.46	0.36	1,188.0	114.9	0.7	114.9	0.00	0.00	
1,300.0	14.46	0.36	1,284.8	139.9	0.9	139.9	0.00	0.00	
1,400.0	14.46	0.36	1,381.7	164.8	1.0	164.8	0.00	0.00	
1,500.0	14.46	0.36	1,478.5	189.8	1.2	189.8	0.00	0.00	
1,600.0	14.46	0.36	1,575.3	214.8	1.4	214.8	0.00	0.00	
1,700.0	14.46	0.36	1,672.2	239.7	1.5	239.7	0.00	0.00	
1,800.0	14.46	0.36	1,769.0	264.7	1.7	264.7	0.00	0.00	
1,900.0	14.46	0.36	1,865.8	289.7	1.8	289.7	0.00	0.00	
2,000.0	14.46	0.36	1,962.7	314.6	2.0	314.6	0.00	0.00	
2,100.0	14.46	0.36	2,059.5	339.6	2.2	339.6	0.00	0.00	
2,200.0	14.46	0.36	2,156.3	364.6	2.3	364.6	0.00	0.00	
2,300.0	14.46	0.36	2,253.2	389.5	2.5	389.5	0.00	0.00	
2,400.0	14.46	0.36	2,350.0	414.5	2.6	414.5	0.00	0.00	
2,500.0	14.46	0.36	2,446.8	439.4	2.8	439.5	0.00	0.00	
2,600.0	14.46	0.36	2,543.7	464.4	2.9	464.4	0.00	0.00	
2,700.0	14.46	0.36	2,640.5	489.4	3.1	489.4	0.00	0.00	
2,800.0	14.46	0.36	2,737.3	514.3	3.3	514.3	0.00	0.00	
2,900.0	14.46	0.36	2,834.2	539.3	3.4	539.3	0.00	0.00	
3,000.0	14.46	0.36	2,931.0	564.3	3.6	564.3	0.00	0.00	
3,100.0	14.46	0.36	3,027.8	589.2	3.7	589.2	0.00	0.00	
3,200.0	14.46	0.36	3,124.7	614.2	3.9	614.2	0.00	0.00	
3,300.0	14.46	0.36	3,221.5	639.2	4.1	639.2	0.00	0.00	
3,400.0	14.46	0.36	3,318.3	664.1	4.2	664.1	0.00	0.00	
3,500.0	14.46	0.36	3,415.2	689.1	4.4	689.1	0.00	0.00	
3,536.0	14.46	0.36	3,450.0	698.1	4.4	698.1	0.00	0.00	Parkman
3,600.0	14.46	0.36	3,512.0	714.0	4.5	714.1	0.00	0.00	
3,700.0	14.46	0.36	3,608.8	739.0	4.7	739.0	0.00	0.00	
3,800.0	14.46	0.36	3,705.7	764.0	4.8	764.0	0.00	0.00	
3,900.0	14.46	0.36	3,802.5	788.9	5.0	789.0	0.00	0.00	
4,000.0	14.46	0.36	3,899.3	813.9	5.2	813.9	0.00	0.00	
4,100.0	14.46	0.36	3,996.2	838.9	5.3	838.9	0.00	0.00	
4,181.4	14.46	0.36	4,075.0	859.2	5.4	859.2	0.00	0.00	Sussex
4,200.0	14.46	0.36	4,093.0	863.8	5.5	863.8	0.00	0.00	
4,300.0	14.46	0.36	4,189.8	888.8	5.6	888.8	0.00	0.00	
4,400.0	14.46	0.36	4,286.7	913.8	5.8	913.8	0.00	0.00	
4,500.0	14.46	0.36	4,383.5	938.7	5.9	938.7	0.00	0.00	
4,600.0	14.46	0.36	4,480.3	963.7	6.1	963.7	0.00	0.00	
4,700.0	14.46	0.36	4,577.2	988.6	6.3	988.7	0.00	0.00	
4,800.0	14.46	0.36	4,674.0	1,013.6	6.4	1,013.6	0.00	0.00	

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<b>Project:</b>	Weld County	<b>MD Reference:</b>	WELL @ 4673.0ft (Original Well Elev)
<b>Site:</b>	Antelope 24-20 Pad	<b>North Reference:</b>	True
<b>Well:</b>	Antelope 23-20	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	DD		
<b>Design:</b>	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
4,900.0	14.46	0.36	4,770.9	1,038.6	6.6	1,038.6	0.00	0.00	
5,000.0	14.46	0.36	4,867.7	1,063.5	6.7	1,063.6	0.00	0.00	
5,100.0	14.46	0.36	4,964.5	1,088.5	6.9	1,088.5	0.00	0.00	
5,200.0	14.46	0.36	5,061.4	1,113.5	7.1	1,113.5	0.00	0.00	
5,300.0	14.46	0.36	5,158.2	1,138.4	7.2	1,138.4	0.00	0.00	
5,400.0	14.46	0.36	5,255.0	1,163.4	7.4	1,163.4	0.00	0.00	
5,500.0	14.46	0.36	5,351.9	1,188.4	7.5	1,188.4	0.00	0.00	
5,600.0	14.46	0.36	5,448.7	1,213.3	7.7	1,213.3	0.00	0.00	
5,700.0	14.46	0.36	5,545.5	1,238.3	7.8	1,238.3	0.00	0.00	
5,780.2	14.46	0.36	5,623.2	1,258.3	8.0	1,258.3	0.00	0.00	Start Drop -3.00
5,800.0	13.86	0.36	5,642.4	1,263.1	8.0	1,263.2	3.00	-3.00	
5,900.0	10.86	0.36	5,740.1	1,284.6	8.1	1,284.6	3.00	-3.00	
6,000.0	7.86	0.36	5,838.7	1,300.8	8.2	1,300.8	3.00	-3.00	
6,100.0	4.86	0.36	5,938.1	1,311.9	8.3	1,311.9	3.00	-3.00	
6,200.0	1.86	0.36	6,037.9	1,317.8	8.4	1,317.8	3.00	-3.00	
6,262.1	0.00	0.00	6,100.0	1,318.8	8.4	1,318.8	3.00	-3.00	EOD @ Inc. 0°
6,300.0	0.00	0.00	6,137.9	1,318.8	8.4	1,318.8	0.00	0.00	
6,400.0	0.00	0.00	6,237.9	1,318.8	8.4	1,318.8	0.00	0.00	
6,487.1	0.00	0.00	6,325.0	1,318.8	8.4	1,318.8	0.00	0.00	Niobrara
6,500.0	0.00	0.00	6,337.9	1,318.8	8.4	1,318.8	0.00	0.00	
6,600.0	0.00	0.00	6,437.9	1,318.8	8.4	1,318.8	0.00	0.00	
6,700.0	0.00	0.00	6,537.9	1,318.8	8.4	1,318.8	0.00	0.00	
6,800.0	0.00	0.00	6,637.9	1,318.8	8.4	1,318.8	0.00	0.00	
6,900.0	0.00	0.00	6,737.9	1,318.8	8.4	1,318.8	0.00	0.00	
6,912.1	0.00	0.00	6,750.0	1,318.8	8.4	1,318.8	0.00	0.00	TD @ 6,912' MD

### 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 23-20 TGT - plan hits target center - Point	0.00	0.00	6,100.0	1,318.8	8.4	1,384,554.92	3,320,502.79	40.383290	-104.349500
Antelope 23-20 PBHL - plan hits target center - Circle (radius 50.0)	0.00	0.00	6,750.0	1,318.8	8.4	1,384,554.92	3,320,502.79	40.383290	-104.349500

### Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,536.0	3,450.0	Parkman			
4,181.4	4,075.0	Sussex			
6,487.1	6,325.0	Niobrara			

## Planning Report

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<b>Company:</b>	Bonanza Creek Energy Operating Company, LLC	<b>TVD Reference:</b>	WELL @ 4673.0ft (Original Well Elev)
<b>Project:</b>	Weld County	<b>MD Reference:</b>	WELL @ 4673.0ft (Original Well Elev)
<b>Site:</b>	Antelope 24-20 Pad	<b>North Reference:</b>	True
<b>Well:</b>	Antelope 23-20	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	DD		
<b>Design:</b>	Plan #1		

### Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
500.0	500.0	0.0	0.0	KOP @ 500'
981.9	976.8	60.5	0.4	EOB @ Inc. 14.46°
5,780.2	5,623.2	1,258.3	8.0	Start Drop -3.00
6,262.1	6,100.0	1,318.8	8.4	EOD @ Inc. 0°
6,912.1	6,750.0	1,318.8	8.4	TD @ 6,912' MD

# **Bonanza Creek Energy Operating Company, LLC**

**Weld County**

**Antelope 24-20 Pad**

**Antelope 23-20**

**DD**

**Plan #1**

## **Anticollision Report**

**13 May, 2011**

## Anticollision Report

<b>Company:</b>	Bonanza Creek Energy Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well Antelope 23-20
<b>Project:</b>	Weld County	<b>TVD Reference:</b>	WELL @ 4673.0ft (Original Well Elev)
<b>Reference Site:</b>	Antelope 24-20 Pad	<b>MD Reference:</b>	WELL @ 4673.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Antelope 23-20	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	EDM 5000.1 US Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Reference</b>	Plan #1		
<b>Filter type:</b>	GLOBAL FILTER APPLIED: All wellpaths within 200'+ 100/1000 of reference		
<b>Interpolation Method:</b>	MD Interval 100.0ft	<b>Error Model:</b>	Systematic Ellipse
<b>Depth Range:</b>	Unlimited	<b>Scan Method:</b>	Closest Approach 3D
<b>Results Limited by:</b>	Maximum center-center distance of 100.0ft	<b>Error Surface:</b>	Elliptical Conic
<b>Warning Levels Evaluated at:</b>	2.00 Sigma		

<b>Survey Tool Program</b>	<b>Date</b>	5/13/2011		
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.0	6,912.1	Plan #1 (DD)	MWD	Geolink MWD

<b>Summary</b>						
<b>Site Name</b>	<b>Reference Measured Depth (ft)</b>	<b>Offset Measured Depth (ft)</b>	<b>Distance Between Centres (ft)</b>	<b>Distance Between Ellipses (ft)</b>	<b>Separation Factor</b>	<b>Warning</b>
<b>Offset Well - Wellbore - Design</b>						
Antelope 24-20 Pad						
Antelope 24-20 (vert) - V - Plan #1	0.0	0.0	13.9			
Antelope 24-20 (vert) - V - Plan #1	500.0	500.0	13.9	13.9	10,000.000	CC, ES
Antelope I-20 - DD - Plan #1	0.0	0.0	30.6			
Antelope I-20 - DD - Plan #1	500.0	500.0	30.6	30.6	10,000.000	CC, ES

## Anticollision Report

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<b>Reference Site:</b>	Antelope 24-20 Pad	<b>MD Reference:</b>	WELL @ 4673.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Antelope 23-20	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	EDM 5000.1 US Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design      Antelope 24-20 Pad - Antelope 24-20 (vert) - V - Plan #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 (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	-89.90	0.0	-13.9	13.9					
100.0	100.0	100.0	100.0	0.2	0.2	-89.90	0.0	-13.9	13.9	13.9	0.00	N/A		
200.0	200.0	200.0	200.0	0.3	0.3	-89.90	0.0	-13.9	13.9	13.9	0.00	N/A		
300.0	300.0	300.0	300.0	0.5	0.5	-89.90	0.0	-13.9	13.9	13.9	0.00	N/A		
400.0	400.0	400.0	400.0	0.7	0.7	-89.90	0.0	-13.9	13.9	13.9	0.00	N/A		
500.0	500.0	500.0	500.0	0.9	0.9	-89.90	0.0	-13.9	13.9	13.9	0.00	N/A CC, ES		
525.5	525.5	525.5	525.5	0.9	0.9	-90.96	0.0	-13.9	13.9	13.9	0.00	N/A		
600.0	600.0	600.0	600.0	1.0	1.0	-100.88	0.0	-13.9	14.2	14.2	0.00	N/A		
700.0	699.6	699.6	699.6	1.2	1.2	-126.93	0.0	-13.9	17.5	17.5	0.00	N/A		
800.0	798.8	798.8	798.8	1.5	1.4	-149.11	0.0	-13.9	27.4	27.4	0.00	N/A		
900.0	897.1	897.1	897.1	1.8	1.5	-161.19	0.0	-13.9	44.1	44.1	0.00	N/A		
1,000.0	994.3	994.3	994.3	2.2	1.7	-167.53	0.0	-13.9	66.5	66.5	0.00	N/A		
1,100.0	1,091.2	1,091.2	1,091.2	2.6	1.9	-170.92	0.0	-13.9	91.1	91.1	0.00	N/A		



## Anticollision Report

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<b>Reference Site:</b>	Antelope 24-20 Pad	<b>MD Reference:</b>	WELL @ 4673.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Antelope 23-20	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	EDM 5000.1 US Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> Antelope 24-20 Pad - Antelope I-20 - DD - Plan #1													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	-89.98	0.0	-30.6	30.6					
100.0	100.0	100.0	100.0	0.2	0.2	-89.98	0.0	-30.6	30.6	30.6	0.00	N/A		
200.0	200.0	200.0	200.0	0.3	0.3	-89.98	0.0	-30.6	30.6	30.6	0.00	N/A		
300.0	300.0	300.0	300.0	0.5	0.5	-89.98	0.0	-30.6	30.6	30.6	0.00	N/A		
400.0	400.0	400.0	400.0	0.7	0.7	-89.98	0.0	-30.6	30.6	30.6	0.00	N/A		
500.0	500.0	500.0	500.0	0.9	0.9	-89.98	0.0	-30.6	30.6	30.6	0.00	N/A CC, ES		
600.0	600.0	598.9	598.8	1.0	1.0	-91.59	1.9	-32.4	32.5	32.5	0.00	N/A		
700.0	699.6	697.5	697.2	1.2	1.2	-94.59	7.4	-37.7	38.0	38.0	0.00	N/A		
800.0	798.8	795.7	794.5	1.5	1.5	-97.97	16.5	-46.4	47.3	47.3	0.00	N/A		
900.0	897.1	894.4	891.8	1.8	1.8	-101.80	28.6	-57.9	59.9	59.9	0.00	N/A		
1,000.0	994.3	993.0	989.0	2.2	2.1	-107.88	40.8	-69.5	74.2	74.2	0.00	N/A		
1,100.0	1,091.2	1,091.5	1,086.0	2.6	2.4	-113.23	53.0	-81.2	89.9	89.9	0.00	N/A		

## Anticollision Report

<b>Company:</b>	Bonanza Creek Energy Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well Antelope 23-20
<b>Project:</b>	Weld County	<b>TVD Reference:</b>	WELL @ 4673.0ft (Original Well Elev)
<b>Reference Site:</b>	Antelope 24-20 Pad	<b>MD Reference:</b>	WELL @ 4673.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Antelope 23-20	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	EDM 5000.1 US Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to WELL @ 4673.0ft (Original Well Elev)  
Offset Depths are relative to Offset Datum  
Central Meridian is -105.500000 °

Coordinates are relative to: Antelope 23-20  
Coordinate System is US State Plane 1983, Colorado Northern Zone  
Grid Convergence at Surface is: 0.74°

