

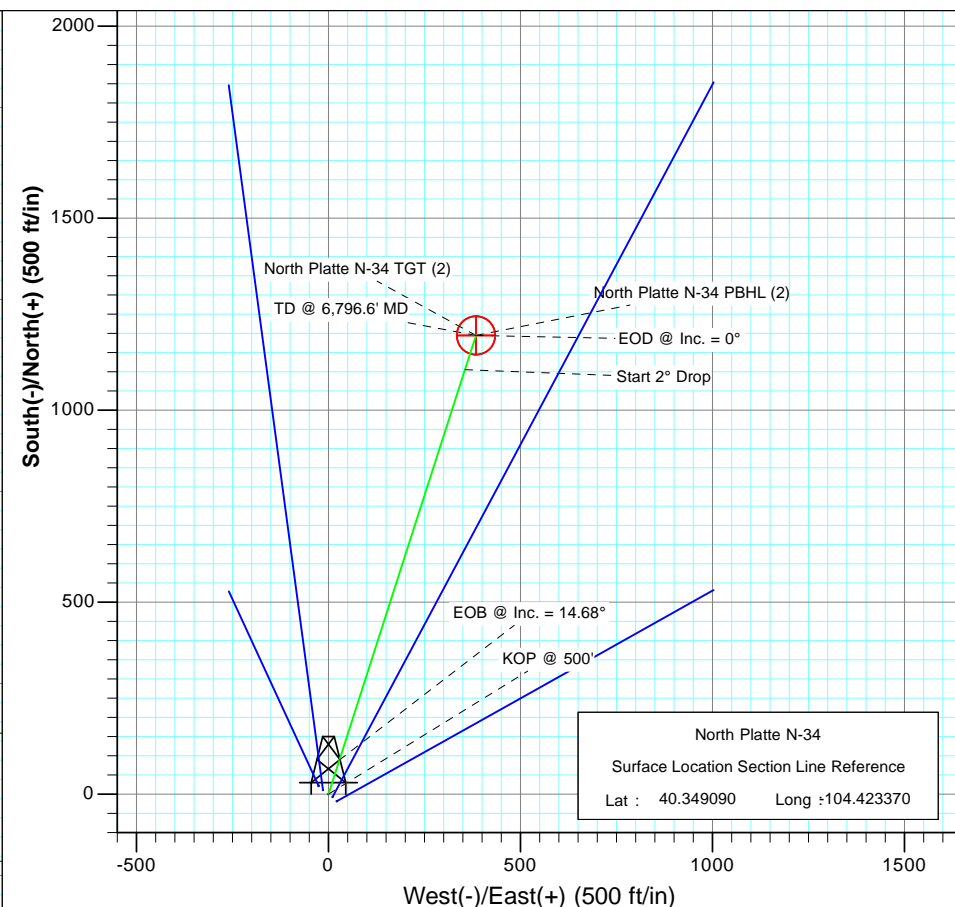
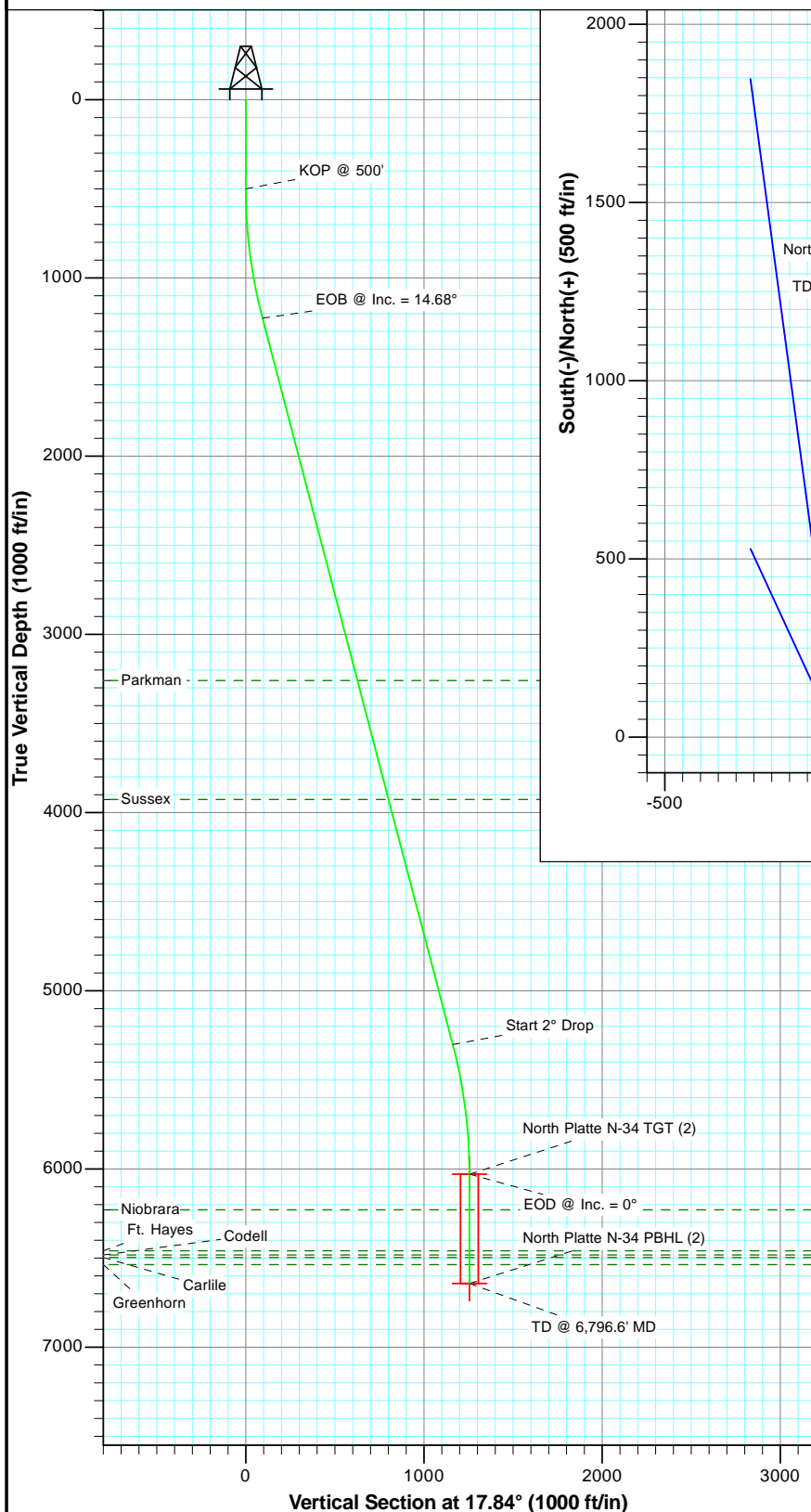


Project: Weld County  
 Site: North Platte 24-34 Pad (was N-34)  
 Well: North Platte N-34  
 Wellbore: DD  
 Plan: Plan #2



#### 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	1234.1	14.68	17.84	1226.1	89.0	28.7	2.00	17.84	93.5	
4	5448.5	14.68	17.84	5302.9	1105.8	356.0	0.00	0.00	1161.7	
5	6182.6	0.00	0.00	6029.0	1194.9	384.6	2.00	180.00	1255.3	North Platte N-34 TGT (2)
6	6796.6	0.00	0.00	6643.0	1194.9	384.6	0.00	0.00	1255.3	North Platte N-34 PBHL (2)



#### FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3259.0	3335.6	Parkman
3927.0	4026.2	Sussex
6229.0	6382.6	Niobrara
6459.0	6612.6	Ft. Hayes
6483.0	6636.6	Codell
6497.0	6650.6	Carlile
6537.0	6690.6	Greenhorn



Azimuths to True North  
 Magnetic North: 8.70°  
 Magnetic Field  
 Strength: 53160.6nT  
 Dip Angle: 67.07°  
 Date: 4/18/2011  
 Model: IGRF2010

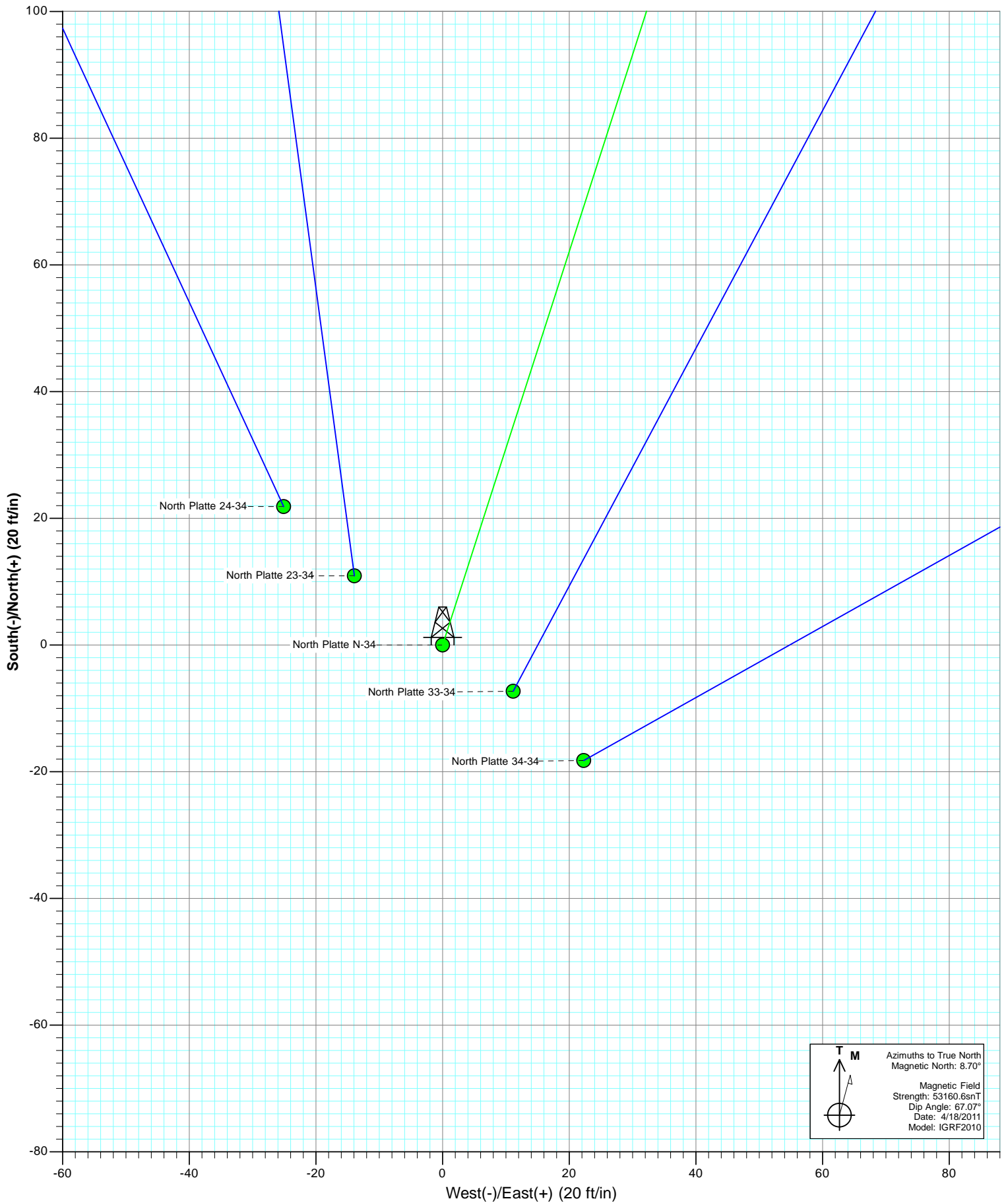
Plan #2  
 North Platte N-34  
 115XXX; SC

KBE @ 4539.0ft (Original Well Elev)  
 North American Datum 1983  
 Well North Platte N-34, True North

Type	Target	Azimuth	Origin	Type	N/S	E/W	From TVD
TD	No Target (Freehand)	17.84	Slot		0.0	0.0	0.0
Name		TVD	+N/-S	+E/-W	Latitude	Longitude	
North Platte N-34 TGT (2)		6029.0	1194.9	384.6	40.352370	-104.421990	
North Platte N-34 PBHL (2)		6643.0	1194.9	384.6	40.352370	-104.421990	

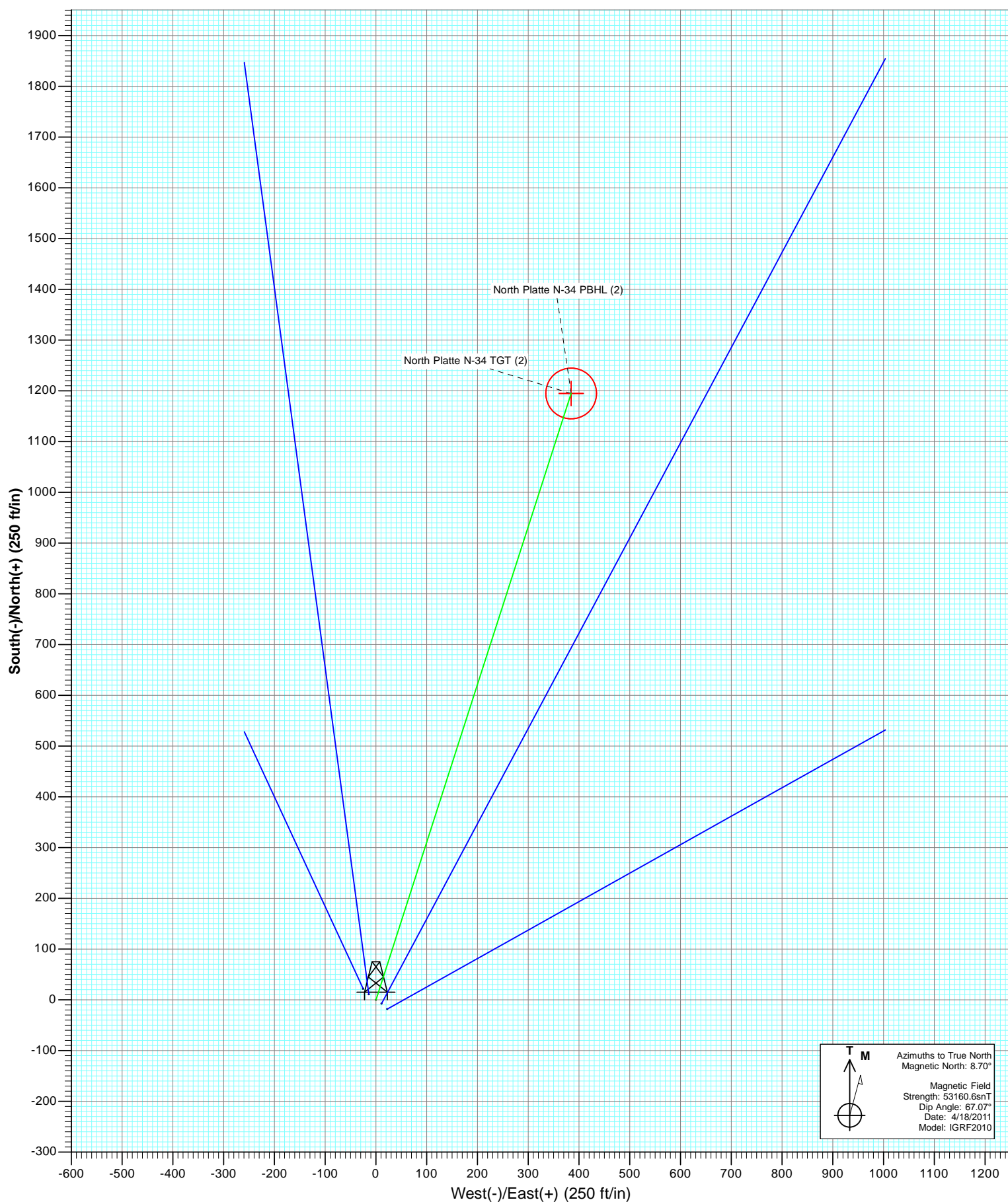


Project: Weld County  
Site: North Platte 24-34 Pad (was N-34)  
Well: North Platte N-34  
Wellbore: DD  
Plan: Plan #2



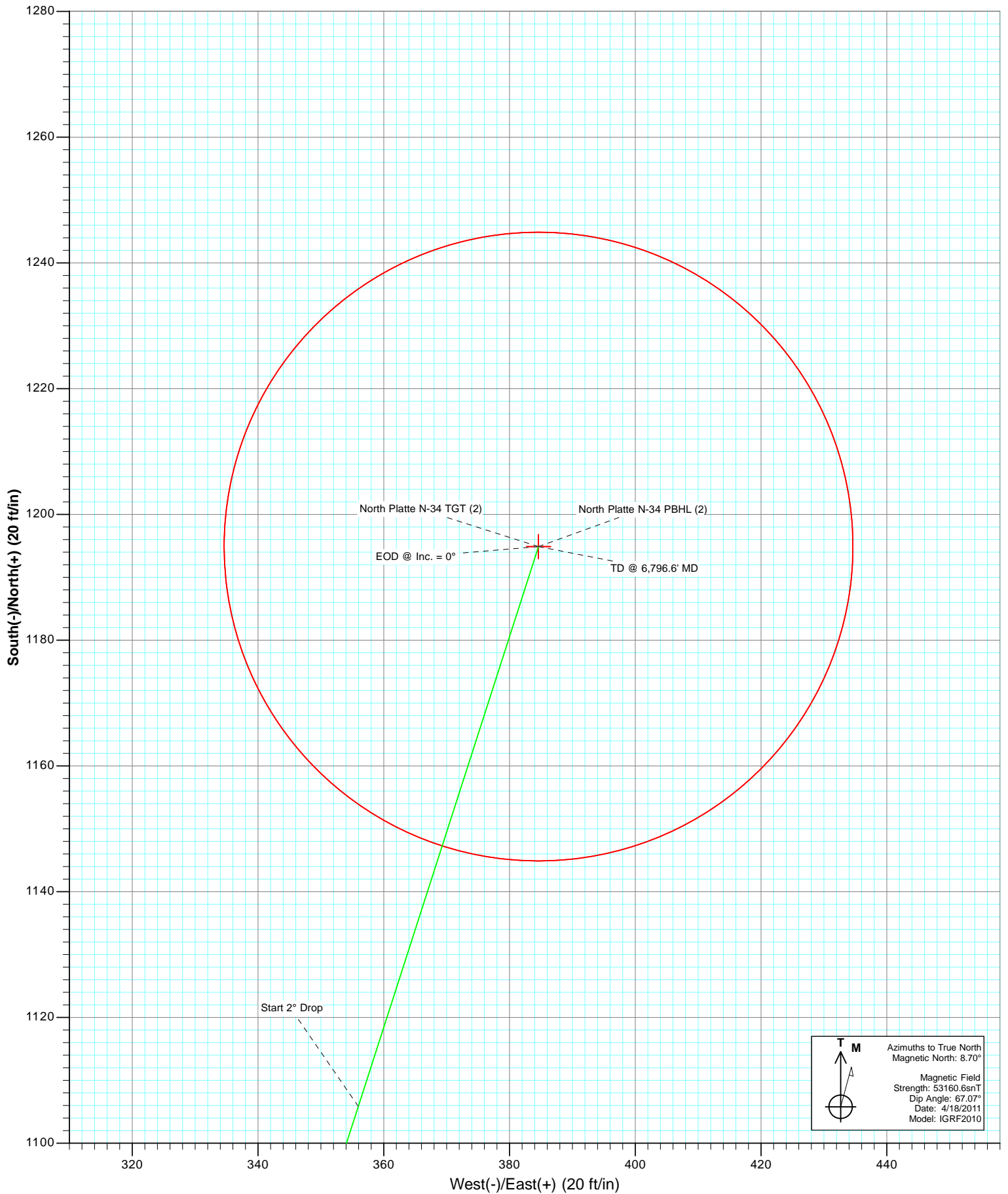


Project: Weld County  
Site: North Platte 24-34 Pad (was N-34)  
Well: North Platte N-34  
Wellbore: DD  
Plan: Plan #2





Project: Weld County  
Site: North Platte 24-34 Pad (was N-34)  
Well: North Platte N-34  
Wellbore: DD  
Plan: Plan #2



# Cathedral Energy Services

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well North Platte N-34
<b>Company:</b>	Bonanza Creek Energy Operating Company, LLC	<b>TVD Reference:</b>	KBE @ 4539.0ft (Original Well Elev)
<b>Project:</b>	Weld County	<b>MD Reference:</b>	KBE @ 4539.0ft (Original Well Elev)
<b>Site:</b>	North Platte 24-34 Pad (was N-34)	<b>North Reference:</b>	True
<b>Well:</b>	North Platte N-34	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	DD		
<b>Design:</b>	Plan #2		

<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		North Platte 24-34 Pad (was N-34)			
Site Position:		Northing:	1,371,838.51 ft	Latitude:	40.349090
From:	Lat/Long	Easting:	3,300,077.01 ft	Longitude:	-104.423370
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	0.70 °

Well	North Platte N-34					
Well Position	+N/-S	0.0 ft	Northing:	1,371,838.52 ft	Latitude:	40.349090
	+E/-W	0.0 ft	Easting:	3,300,077.01 ft	Longitude:	-104.423370
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,529.0 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	4/18/2011	8.70	67.07	53,161

<b>Design</b>	Plan #2			
<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	17.84

<b>Plan Sections</b>										
<b>Measured</b>	<b>Inclination</b>	<b>Azimuth</b>	<b>Vertical</b>	<b>+N/-S</b>	<b>+E/-W</b>	<b>Dogleg</b>	<b>Build</b>	<b>Turn</b>	<b>TFO</b>	<b>Target</b>
<b>Depth</b>	<b>(°)</b>	<b>(°)</b>	<b>Depth</b>	<b>(ft)</b>	<b>(ft)</b>	<b>Rate</b>	<b>Rate</b>	<b>Rate</b>	<b>(°)</b>	
<b>(ft)</b>			<b>(ft)</b>			<b>(°/100ft)</b>	<b>(°/100ft)</b>	<b>(°/100ft)</b>		
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	
1,234.1	14.68	17.84	1,226.1	89.0	28.7	2.00	2.00	0.00	17.84	
5,448.5	14.68	17.84	5,302.9	1,105.8	356.0	0.00	0.00	0.00	0.00	
6,182.6	0.00	0.00	6,029.0	1,194.9	384.6	2.00	-2.00	0.00	180.00	North Platte N-34 TG
6,796.6	0.00	0.00	6,643.0	1,194.9	384.6	0.00	0.00	0.00	0.00	North Platte N-34 PBI

# Cathedral Energy Services

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well North Platte N-34
<b>Company:</b>	Bonanza Creek Energy Operating Company, LLC	<b>TVD Reference:</b>	KBE @ 4539.0ft (Original Well Elev)
<b>Project:</b>	Weld County	<b>MD Reference:</b>	KBE @ 4539.0ft (Original Well Elev)
<b>Site:</b>	North Platte 24-34 Pad (was N-34)	<b>North Reference:</b>	True
<b>Well:</b>	North Platte N-34	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	DD		
<b>Design:</b>	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	KOP @ 500'
600.0	2.00	17.84	600.0	1.7	0.5	1.7	2.00	2.00	
700.0	4.00	17.84	699.8	6.6	2.1	7.0	2.00	2.00	
800.0	6.00	17.84	799.5	14.9	4.8	15.7	2.00	2.00	
900.0	8.00	17.84	898.7	26.5	8.5	27.9	2.00	2.00	
1,000.0	10.00	17.84	997.5	41.4	13.3	43.5	2.00	2.00	
1,100.0	12.00	17.84	1,095.6	59.6	19.2	62.6	2.00	2.00	
1,200.0	14.00	17.84	1,193.1	81.0	26.1	85.1	2.00	2.00	
1,234.1	14.68	17.84	1,226.1	89.0	28.7	93.5	2.00	2.00	EOB @ Inc. = 14.68°
1,300.0	14.68	17.84	1,289.8	104.9	33.8	110.2	0.00	0.00	
1,400.0	14.68	17.84	1,386.6	129.1	41.5	135.6	0.00	0.00	
1,500.0	14.68	17.84	1,483.3	153.2	49.3	160.9	0.00	0.00	
1,600.0	14.68	17.84	1,580.0	177.3	57.1	186.3	0.00	0.00	
1,700.0	14.68	17.84	1,676.8	201.5	64.8	211.6	0.00	0.00	
1,800.0	14.68	17.84	1,773.5	225.6	72.6	237.0	0.00	0.00	
1,900.0	14.68	17.84	1,870.2	249.7	80.4	262.3	0.00	0.00	
2,000.0	14.68	17.84	1,967.0	273.8	88.1	287.7	0.00	0.00	
2,100.0	14.68	17.84	2,063.7	298.0	95.9	313.0	0.00	0.00	
2,200.0	14.68	17.84	2,160.5	322.1	103.7	338.4	0.00	0.00	
2,300.0	14.68	17.84	2,257.2	346.2	111.4	363.7	0.00	0.00	
2,400.0	14.68	17.84	2,353.9	370.3	119.2	389.1	0.00	0.00	
2,500.0	14.68	17.84	2,450.7	394.5	127.0	414.4	0.00	0.00	
2,600.0	14.68	17.84	2,547.4	418.6	134.7	439.7	0.00	0.00	
2,700.0	14.68	17.84	2,644.1	442.7	142.5	465.1	0.00	0.00	
2,800.0	14.68	17.84	2,740.9	466.8	150.3	490.4	0.00	0.00	
2,900.0	14.68	17.84	2,837.6	491.0	158.0	515.8	0.00	0.00	
3,000.0	14.68	17.84	2,934.3	515.1	165.8	541.1	0.00	0.00	
3,100.0	14.68	17.84	3,031.1	539.2	173.6	566.5	0.00	0.00	
3,200.0	14.68	17.84	3,127.8	563.4	181.3	591.8	0.00	0.00	
3,300.0	14.68	17.84	3,224.5	587.5	189.1	617.2	0.00	0.00	
3,335.6	14.68	17.84	3,259.0	596.1	191.9	626.2	0.00	0.00	Parkman
3,400.0	14.68	17.84	3,321.3	611.6	196.9	642.5	0.00	0.00	
3,500.0	14.68	17.84	3,418.0	635.7	204.6	667.9	0.00	0.00	
3,600.0	14.68	17.84	3,514.7	659.9	212.4	693.2	0.00	0.00	
3,700.0	14.68	17.84	3,611.5	684.0	220.2	718.5	0.00	0.00	
3,800.0	14.68	17.84	3,708.2	708.1	227.9	743.9	0.00	0.00	
3,900.0	14.68	17.84	3,804.9	732.2	235.7	769.2	0.00	0.00	
4,000.0	14.68	17.84	3,901.7	756.4	243.5	794.6	0.00	0.00	
4,026.2	14.68	17.84	3,927.0	762.7	245.5	801.2	0.00	0.00	Sussex
4,100.0	14.68	17.84	3,998.4	780.5	251.2	819.9	0.00	0.00	
4,200.0	14.68	17.84	4,095.1	804.6	259.0	845.3	0.00	0.00	
4,300.0	14.68	17.84	4,191.9	828.7	266.8	870.6	0.00	0.00	
4,400.0	14.68	17.84	4,288.6	852.9	274.5	896.0	0.00	0.00	
4,500.0	14.68	17.84	4,385.3	877.0	282.3	921.3	0.00	0.00	
4,600.0	14.68	17.84	4,482.1	901.1	290.1	946.7	0.00	0.00	
4,700.0	14.68	17.84	4,578.8	925.3	297.8	972.0	0.00	0.00	
4,800.0	14.68	17.84	4,675.6	949.4	305.6	997.4	0.00	0.00	

# Cathedral Energy Services

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well North Platte N-34
<b>Company:</b>	Bonanza Creek Energy Operating Company, LLC	<b>TVD Reference:</b>	KBE @ 4539.0ft (Original Well Elev)
<b>Project:</b>	Weld County	<b>MD Reference:</b>	KBE @ 4539.0ft (Original Well Elev)
<b>Site:</b>	North Platte 24-34 Pad (was N-34)	<b>North Reference:</b>	True
<b>Well:</b>	North Platte N-34	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	DD		
<b>Design:</b>	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
4,900.0	14.68	17.84	4,772.3	973.5	313.4	1,022.7	0.00	0.00	
5,000.0	14.68	17.84	4,869.0	997.6	321.1	1,048.0	0.00	0.00	
5,100.0	14.68	17.84	4,965.8	1,021.8	328.9	1,073.4	0.00	0.00	
5,200.0	14.68	17.84	5,062.5	1,045.9	336.7	1,098.7	0.00	0.00	
5,300.0	14.68	17.84	5,159.2	1,070.0	344.4	1,124.1	0.00	0.00	
5,400.0	14.68	17.84	5,256.0	1,094.1	352.2	1,149.4	0.00	0.00	
5,448.5	14.68	17.84	5,302.9	1,105.8	356.0	1,161.7	0.00	0.00	Start 2° Drop
5,500.0	13.65	17.84	5,352.8	1,117.8	359.8	1,174.3	2.00	-2.00	
5,600.0	11.65	17.84	5,450.4	1,138.7	366.5	1,196.2	2.00	-2.00	
5,700.0	9.65	17.84	5,548.6	1,156.3	372.2	1,214.7	2.00	-2.00	
5,800.0	7.65	17.84	5,647.5	1,170.6	376.8	1,229.8	2.00	-2.00	
5,900.0	5.65	17.84	5,746.8	1,181.6	380.3	1,241.3	2.00	-2.00	
6,000.0	3.65	17.84	5,846.5	1,189.4	382.8	1,249.5	2.00	-2.00	
6,100.0	1.65	17.84	5,946.4	1,193.8	384.2	1,254.1	2.00	-2.00	
6,182.6	0.00	0.00	6,029.0	1,194.9	384.6	1,255.3	2.00	-2.00	EOD @ Inc. = 0°
6,200.0	0.00	0.00	6,046.4	1,194.9	384.6	1,255.3	0.00	0.00	
6,300.0	0.00	0.00	6,146.4	1,194.9	384.6	1,255.3	0.00	0.00	
6,382.6	0.00	0.00	6,229.0	1,194.9	384.6	1,255.3	0.00	0.00	Niobrara
6,400.0	0.00	0.00	6,246.4	1,194.9	384.6	1,255.3	0.00	0.00	
6,500.0	0.00	0.00	6,346.4	1,194.9	384.6	1,255.3	0.00	0.00	
6,600.0	0.00	0.00	6,446.4	1,194.9	384.6	1,255.3	0.00	0.00	
6,612.6	0.00	0.00	6,459.0	1,194.9	384.6	1,255.3	0.00	0.00	Ft. Hayes
6,636.6	0.00	0.00	6,483.0	1,194.9	384.6	1,255.3	0.00	0.00	Codell
6,650.6	0.00	0.00	6,497.0	1,194.9	384.6	1,255.3	0.00	0.00	Carlile
6,690.6	0.00	0.00	6,537.0	1,194.9	384.6	1,255.3	0.00	0.00	Greenhorn
6,700.0	0.00	0.00	6,546.4	1,194.9	384.6	1,255.3	0.00	0.00	
6,796.6	0.00	0.00	6,643.0	1,194.9	384.6	1,255.3	0.00	0.00	TD @ 6,796.6' 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									
North Platte N-34 PBHL	0.00	0.00	6,643.0	1,194.9	384.6	1,373,038.00	3,300,447.09	40.352370	-104.421990
- plan hits target center									
- Circle (radius 50.0)									
North Platte N-34 TGT (:	0.00	0.00	6,029.0	1,194.9	384.6	1,373,038.00	3,300,447.09	40.352370	-104.421990
- plan hits target center									
- Point									

# Cathedral Energy Services

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well North Platte N-34
<b>Company:</b>	Bonanza Creek Energy Operating Company, LLC	<b>TVD Reference:</b>	KBE @ 4539.0ft (Original Well Elev)
<b>Project:</b>	Weld County	<b>MD Reference:</b>	KBE @ 4539.0ft (Original Well Elev)
<b>Site:</b>	North Platte 24-34 Pad (was N-34)	<b>North Reference:</b>	True
<b>Well:</b>	North Platte N-34	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	DD		
<b>Design:</b>	Plan #2		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,335.6	3,259.0	Parkman				
4,026.2	3,927.0	Sussex				
6,382.6	6,229.0	Niobrara				
6,612.6	6,459.0	Ft. Hayes				
6,636.6	6,483.0	Codell				
6,650.6	6,497.0	Carlile				
6,690.6	6,537.0	Greenhorn				

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'
1,234.1	1,226.1	89.0	28.7	EOB @ Inc. = 14.68°
5,448.5	5,302.9	1,105.8	356.0	Start 2° Drop
6,182.6	6,029.0	1,194.9	384.6	EOD @ Inc. = 0°
6,796.6	6,643.0	1,194.9	384.6	TD @ 6,796.6' MD



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

**Weld County**

**North Platte 24-34 Pad (was N-34)**

**North Platte N-34**

**DD**

**Plan #2**

## **Anticollision Report**

**10 February, 2012**

# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	Bonanza Creek Energy Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well North Platte N-34
<b>Project:</b>	Weld County	<b>TVD Reference:</b>	KBE @ 4539.0ft (Original Well Elev)
<b>Reference Site:</b>	North Platte 24-34 Pad (was N-34)	<b>MD Reference:</b>	KBE @ 4539.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	North Platte N-34	<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>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Reference</b>	Plan #2		
<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 500.0ft	<b>Error Surface:</b>	Elliptical Conic
<b>Warning Levels Evaluated at:</b>	2.00 Sigma		

<b>Survey Tool Program</b>	<b>Date</b>	2/10/2012		
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.0	6,796.6	Plan #2 (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>						
North Platte 24-34 Pad (was N-34)						
North Platte 23-34 - DD - Plan #2	0.0	0.0	17.7			
North Platte 23-34 - DD - Plan #2	500.0	500.0	17.7	17.7	10,000.000	CC, ES
North Platte 24-34 - DD - Plan #2	0.0	0.0	33.3			
North Platte 24-34 - DD - Plan #2	500.0	500.0	33.3	33.3	10,000.000	CC, ES
North Platte 33-34 - DD - Plan #2	0.0	0.0	13.3			
North Platte 33-34 - DD - Plan #2	500.0	500.0	13.3	13.3	10,000.000	CC, ES
North Platte 34-34 - DD - Plan #2	0.0	0.0	28.8			
North Platte 34-34 - DD - Plan #2	500.0	500.0	28.8	28.8	10,000.000	CC, ES

# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	Bonanza Creek Energy Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well North Platte N-34
<b>Project:</b>	Weld County	<b>TVD Reference:</b>	KBE @ 4539.0ft (Original Well Elev)
<b>Reference Site:</b>	North Platte 24-34 Pad (was N-34)	<b>MD Reference:</b>	KBE @ 4539.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	North Platte N-34	<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>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design North Platte 24-34 Pad (was N-34) - North Platte 23-34 - 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				Total Uncertainty Axis	Separation Factor	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)				
0.0	0.0	0.0	0.0	0.0	0.0	-51.92	10.9	-13.9	17.7					
100.0	100.0	100.0	100.0	0.2	0.2	-51.92	10.9	-13.9	17.7	17.7	0.00	N/A		
200.0	200.0	200.0	200.0	0.3	0.3	-51.92	10.9	-13.9	17.7	17.7	0.00	N/A		
300.0	300.0	300.0	300.0	0.5	0.5	-51.92	10.9	-13.9	17.7	17.7	0.00	N/A		
400.0	400.0	400.0	400.0	0.7	0.7	-51.92	10.9	-13.9	17.7	17.7	0.00	N/A		
500.0	500.0	500.0	500.0	0.9	0.9	-51.92	10.9	-13.9	17.7	17.7	0.00	N/A CC, ES		
600.0	600.0	599.6	599.5	1.0	1.0	-71.06	12.6	-14.2	18.3	18.3	0.00	N/A		
700.0	699.8	699.1	698.9	1.2	1.2	-74.47	17.8	-14.9	20.3	20.3	0.00	N/A		
800.0	799.5	798.5	798.0	1.4	1.4	-78.85	26.3	-16.0	23.8	23.8	0.00	N/A		
900.0	898.7	897.9	896.6	1.7	1.7	-83.16	38.3	-17.6	28.7	28.7	0.00	N/A		
1,000.0	997.5	997.1	994.6	2.0	1.9	-86.86	53.6	-19.6	35.2	35.2	0.00	N/A		
1,100.0	1,095.6	1,096.1	1,091.8	2.3	2.3	-89.83	72.2	-22.1	43.3	43.3	0.00	N/A		
1,200.0	1,193.1	1,195.0	1,188.2	2.7	2.7	-92.12	94.1	-25.0	53.0	53.0	0.00	N/A		
1,300.0	1,289.8	1,293.6	1,283.5	3.1	3.1	-93.34	119.2	-28.4	64.1	64.1	0.00	N/A		
1,400.0	1,386.6	1,391.9	1,377.6	3.5	3.6	-92.01	147.4	-32.2	76.5	76.5	0.00	N/A		
1,500.0	1,483.3	1,489.7	1,470.1	4.0	4.2	-89.08	178.7	-36.3	90.3	90.3	0.00	N/A		
1,600.0	1,580.0	1,586.7	1,560.9	4.4	4.8	-85.34	212.8	-40.9	106.0	106.0	0.00	N/A		
1,700.0	1,676.8	1,683.6	1,650.3	4.9	5.4	-81.34	249.7	-45.8	123.6	123.6	0.00	N/A		
1,800.0	1,773.5	1,781.6	1,740.5	5.4	6.1	-78.08	287.6	-50.9	142.1	142.1	0.00	N/A		
1,900.0	1,870.2	1,879.6	1,830.8	5.8	6.7	-75.57	325.5	-56.0	160.9	160.9	0.00	N/A		
2,000.0	1,967.0	1,977.6	1,921.0	6.3	7.4	-73.58	363.4	-61.0	180.0	180.0	0.00	N/A		
2,100.0	2,063.7	2,075.6	2,011.2	6.8	8.1	-71.98	401.3	-66.1	199.2	199.2	0.00	N/A		
2,200.0	2,160.5	2,173.6	2,101.4	7.2	8.7	-70.66	439.2	-71.1	218.5	218.5	0.00	N/A		
2,300.0	2,257.2	2,271.6	2,191.7	7.7	9.4	-69.56	477.1	-76.2	238.0	238.0	0.00	N/A		
2,400.0	2,353.9	2,369.6	2,281.9	8.2	10.1	-68.62	515.0	-81.3	257.5	257.5	0.00	N/A		
2,500.0	2,450.7	2,467.6	2,372.1	8.6	10.8	-67.81	552.9	-86.3	277.1	277.1	0.00	N/A		
2,600.0	2,547.4	2,565.6	2,462.3	9.1	11.5	-67.11	590.8	-91.4	296.7	296.7	0.00	N/A		
2,700.0	2,644.1	2,663.6	2,552.5	9.6	12.1	-66.50	628.8	-96.5	316.4	316.4	0.00	N/A		
2,800.0	2,740.9	2,761.6	2,642.8	10.1	12.8	-65.96	666.7	-101.5	336.1	336.1	0.00	N/A		
2,900.0	2,837.6	2,859.6	2,733.0	10.5	13.5	-65.48	704.6	-106.6	355.8	355.8	0.00	N/A		
3,000.0	2,934.3	2,957.6	2,823.2	11.0	14.2	-65.05	742.5	-111.7	375.5	375.5	0.00	N/A		
3,100.0	3,031.1	3,055.5	2,913.4	11.5	14.9	-64.66	780.4	-116.7	395.3	395.3	0.00	N/A		
3,200.0	3,127.8	3,153.5	3,003.7	11.9	15.6	-64.31	818.3	-121.8	415.1	415.1	0.00	N/A		
3,300.0	3,224.5	3,251.5	3,093.9	12.4	16.3	-63.99	856.2	-126.8	434.9	434.9	0.00	N/A		
3,400.0	3,321.3	3,349.5	3,184.1	12.9	16.9	-63.70	894.1	-131.9	454.7	454.7	0.00	N/A		
3,500.0	3,418.0	3,447.5	3,274.3	13.4	17.6	-63.43	932.0	-137.0	474.5	474.5	0.00	N/A		
3,600.0	3,514.7	3,545.5	3,364.6	13.8	18.3	-63.19	969.9	-142.0	494.3	494.3	0.00	N/A		

# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	Bonanza Creek Energy Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well North Platte N-34
<b>Project:</b>	Weld County	<b>TVD Reference:</b>	KBE @ 4539.0ft (Original Well Elev)
<b>Reference Site:</b>	North Platte 24-34 Pad (was N-34)	<b>MD Reference:</b>	KBE @ 4539.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	North Platte N-34	<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>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design North Platte 24-34 Pad (was N-34) - North Platte 24-34 - 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				Total		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)	Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-48.94	21.8	-25.1	33.3					
100.0	100.0	100.0	100.0	0.2	0.2	-48.94	21.8	-25.1	33.3	33.3	0.00	N/A		
200.0	200.0	200.0	200.0	0.3	0.3	-48.94	21.8	-25.1	33.3	33.3	0.00	N/A		
300.0	300.0	300.0	300.0	0.5	0.5	-48.94	21.8	-25.1	33.3	33.3	0.00	N/A		
400.0	400.0	400.0	400.0	0.7	0.7	-48.94	21.8	-25.1	33.3	33.3	0.00	N/A		
500.0	500.0	500.0	500.0	0.9	0.9	-48.94	21.8	-25.1	33.3	33.3	0.00	N/A CC, ES		
600.0	600.0	598.9	598.9	1.0	1.0	-68.26	23.4	-25.8	34.2	34.2	0.00	N/A		
700.0	699.8	697.8	697.6	1.2	1.2	-72.23	28.0	-27.9	37.0	37.0	0.00	N/A		
800.0	799.5	796.4	795.9	1.4	1.4	-77.59	35.8	-31.5	42.0	42.0	0.00	N/A		
900.0	898.7	896.0	894.9	1.7	1.6	-84.36	45.3	-35.9	48.4	48.4	0.00	N/A		
1,000.0	997.5	995.4	993.8	2.0	1.9	-93.03	54.9	-40.4	55.5	55.5	0.00	N/A		
1,100.0	1,095.6	1,094.5	1,092.3	2.3	2.1	-102.61	64.5	-44.8	64.2	64.2	0.00	N/A		
1,200.0	1,193.1	1,193.1	1,190.4	2.7	2.3	-112.12	74.0	-49.2	75.6	75.6	0.00	N/A		
1,300.0	1,289.8	1,291.3	1,288.0	3.1	2.6	-120.59	83.4	-53.5	90.0	90.0	0.00	N/A		
1,400.0	1,386.6	1,389.5	1,385.6	3.5	2.8	-126.82	92.9	-57.9	105.9	105.9	0.00	N/A		
1,500.0	1,483.3	1,487.7	1,483.2	4.0	3.1	-131.40	102.3	-62.3	122.7	122.7	0.00	N/A		
1,600.0	1,580.0	1,585.8	1,580.9	4.4	3.3	-134.86	111.8	-66.7	140.0	140.0	0.00	N/A		
1,700.0	1,676.8	1,684.0	1,678.5	4.9	3.5	-137.56	121.2	-71.0	157.8	157.8	0.00	N/A		
1,800.0	1,773.5	1,782.2	1,776.1	5.4	3.8	-139.71	130.7	-75.4	175.8	175.8	0.00	N/A		
1,900.0	1,870.2	1,880.3	1,873.7	5.8	4.0	-141.46	140.1	-79.8	194.1	194.1	0.00	N/A		
2,000.0	1,967.0	1,978.5	1,971.3	6.3	4.3	-142.91	149.6	-84.1	212.5	212.5	0.00	N/A		
2,100.0	2,063.7	2,076.7	2,068.9	6.8	4.5	-144.13	159.0	-88.5	230.9	230.9	0.00	N/A		
2,200.0	2,160.5	2,174.8	2,166.5	7.2	4.8	-145.16	168.5	-92.9	249.5	249.5	0.00	N/A		
2,300.0	2,257.2	2,273.0	2,264.1	7.7	5.0	-146.06	178.0	-97.3	268.2	268.2	0.00	N/A		
2,400.0	2,353.9	2,371.2	2,361.8	8.2	5.3	-146.83	187.4	-101.6	286.9	286.9	0.00	N/A		
2,500.0	2,450.7	2,469.3	2,459.4	8.6	5.5	-147.51	196.9	-106.0	305.6	305.6	0.00	N/A		
2,600.0	2,547.4	2,567.5	2,557.0	9.1	5.8	-148.12	206.3	-110.4	324.4	324.4	0.00	N/A		
2,700.0	2,644.1	2,665.7	2,654.6	9.6	6.0	-148.66	215.8	-114.7	343.2	343.2	0.00	N/A		
2,800.0	2,740.9	2,763.8	2,752.2	10.1	6.3	-149.14	225.2	-119.1	362.0	362.0	0.00	N/A		
2,900.0	2,837.6	2,862.0	2,849.8	10.5	6.5	-149.57	234.7	-123.5	380.9	380.9	0.00	N/A		
3,000.0	2,934.3	2,960.2	2,947.4	11.0	6.8	-149.96	244.1	-127.9	399.8	399.8	0.00	N/A		
3,100.0	3,031.1	3,058.3	3,045.0	11.5	7.0	-150.32	253.6	-132.2	418.7	418.7	0.00	N/A		
3,200.0	3,127.8	3,156.5	3,142.6	11.9	7.3	-150.65	263.0	-136.6	437.6	437.6	0.00	N/A		
3,300.0	3,224.5	3,254.7	3,240.3	12.4	7.5	-150.95	272.5	-141.0	456.5	456.5	0.00	N/A		
3,400.0	3,321.3	3,352.8	3,337.9	12.9	7.7	-151.22	282.0	-145.3	475.4	475.4	0.00	N/A		
3,500.0	3,418.0	3,451.0	3,435.5	13.4	8.0	-151.48	291.4	-149.7	494.4	494.4	0.00	N/A		

# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	Bonanza Creek Energy Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well North Platte N-34
<b>Project:</b>	Weld County	<b>TVD Reference:</b>	KBE @ 4539.0ft (Original Well Elev)
<b>Reference Site:</b>	North Platte 24-34 Pad (was N-34)	<b>MD Reference:</b>	KBE @ 4539.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	North Platte N-34	<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>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design North Platte 24-34 Pad (was N-34) - North Platte 33-34 - 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		Total		Separation		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)	Uncertainty Axis			
0.0	0.0	0.0	0.0	0.0	0.0	123.19	-7.3	11.1	13.3					
100.0	100.0	100.0	100.0	0.2	0.2	123.19	-7.3	11.1	13.3	13.3	0.00	N/A		
200.0	200.0	200.0	200.0	0.3	0.3	123.19	-7.3	11.1	13.3	13.3	0.00	N/A		
300.0	300.0	300.0	300.0	0.5	0.5	123.19	-7.3	11.1	13.3	13.3	0.00	N/A		
400.0	400.0	400.0	400.0	0.7	0.7	123.19	-7.3	11.1	13.3	13.3	0.00	N/A		
500.0	500.0	500.0	500.0	0.9	0.9	123.19	-7.3	11.1	13.3	13.3	0.00	N/A CC, ES		
600.0	600.0	600.0	600.0	1.0	1.0	105.11	-5.8	12.0	13.6	13.6	0.00	N/A		
700.0	699.8	700.1	699.9	1.2	1.2	104.45	-1.1	14.4	14.5	14.5	0.00	N/A		
800.0	799.5	800.1	799.6	1.4	1.4	103.51	6.6	18.5	16.1	16.1	0.00	N/A		
900.0	898.7	900.1	898.8	1.7	1.7	102.46	17.3	24.3	18.2	18.2	0.00	N/A		
1,000.0	997.5	1,000.1	997.6	2.0	2.0	101.42	31.1	31.6	21.0	21.0	0.00	N/A		
1,100.0	1,095.6	1,100.0	1,095.7	2.3	2.3	100.46	48.0	40.6	24.4	24.4	0.00	N/A		
1,200.0	1,193.1	1,200.0	1,193.0	2.7	2.7	99.61	67.8	51.2	28.4	28.4	0.00	N/A		
1,300.0	1,289.8	1,299.8	1,289.5	3.1	3.1	97.63	90.6	63.3	32.8	32.8	0.00	N/A		
1,400.0	1,386.6	1,399.5	1,384.8	3.5	3.7	91.19	116.3	77.0	37.7	37.7	0.00	N/A		
1,500.0	1,483.3	1,498.8	1,478.7	4.0	4.2	81.92	144.8	92.2	44.0	44.0	0.00	N/A		
1,600.0	1,580.0	1,597.4	1,570.7	4.4	4.8	71.72	175.9	108.8	52.6	52.6	0.00	N/A		
1,700.0	1,676.8	1,695.1	1,660.7	4.9	5.5	62.13	209.5	126.7	64.4	64.4	0.00	N/A		
1,800.0	1,773.5	1,791.7	1,748.4	5.4	6.3	53.96	245.4	145.8	79.9	79.9	0.00	N/A		
1,900.0	1,870.2	1,888.2	1,834.6	5.8	7.0	47.39	283.5	166.1	98.8	98.8	0.00	N/A		
2,000.0	1,967.0	1,985.7	1,921.6	6.3	7.8	42.76	322.5	186.9	119.1	119.1	0.00	N/A		
2,100.0	2,063.7	2,083.3	2,008.6	6.8	8.6	39.48	361.4	207.7	139.8	139.8	0.00	N/A		
2,200.0	2,160.5	2,180.8	2,095.6	7.2	9.4	37.05	400.4	228.4	160.9	160.9	0.00	N/A		
2,300.0	2,257.2	2,278.4	2,182.6	7.7	10.2	35.19	439.4	249.2	182.3	182.3	0.00	N/A		
2,400.0	2,353.9	2,375.9	2,269.6	8.2	11.0	33.71	478.3	270.0	203.7	203.7	0.00	N/A		
2,500.0	2,450.7	2,473.5	2,356.6	8.6	11.7	32.52	517.3	290.7	225.3	225.3	0.00	N/A		
2,600.0	2,547.4	2,571.0	2,443.5	9.1	12.5	31.54	556.2	311.5	246.9	246.9	0.00	N/A		
2,700.0	2,644.1	2,668.6	2,530.5	9.6	13.3	30.71	595.2	332.3	268.6	268.6	0.00	N/A		
2,800.0	2,740.9	2,766.1	2,617.5	10.1	14.1	30.01	634.2	353.0	290.4	290.4	0.00	N/A		
2,900.0	2,837.6	2,863.7	2,704.5	10.5	14.9	29.40	673.1	373.8	312.2	312.2	0.00	N/A		
3,000.0	2,934.3	2,961.2	2,791.5	11.0	15.7	28.88	712.1	394.6	334.0	334.0	0.00	N/A		
3,100.0	3,031.1	3,058.8	2,878.5	11.5	16.5	28.42	751.0	415.3	355.8	355.8	0.00	N/A		
3,200.0	3,127.8	3,156.3	2,965.5	11.9	17.3	28.01	790.0	436.1	377.7	377.7	0.00	N/A		
3,300.0	3,224.5	3,253.9	3,052.5	12.4	18.1	27.64	829.0	456.9	399.5	399.5	0.00	N/A		
3,400.0	3,321.3	3,351.4	3,139.4	12.9	18.9	27.32	867.9	477.6	421.4	421.4	0.00	N/A		
3,500.0	3,418.0	3,449.0	3,226.4	13.4	19.7	27.03	906.9	498.4	443.3	443.3	0.00	N/A		
3,600.0	3,514.7	3,546.5	3,313.4	13.8	20.5	26.76	945.9	519.1	465.2	465.2	0.00	N/A		
3,700.0	3,611.5	3,644.1	3,400.4	14.3	21.3	26.52	984.8	539.9	487.1	487.1	0.00	N/A		

# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	Bonanza Creek Energy Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well North Platte N-34
<b>Project:</b>	Weld County	<b>TVD Reference:</b>	KBE @ 4539.0ft (Original Well Elev)
<b>Reference Site:</b>	North Platte 24-34 Pad (was N-34)	<b>MD Reference:</b>	KBE @ 4539.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	North Platte N-34	<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>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design North Platte 24-34 Pad (was N-34) - North Platte 34-34 - 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				Total Uncertainty Axis	Separation Factor	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)				
0.0	0.0	0.0	0.0	0.0	0.0	129.26	-18.2	22.3	28.8					
100.0	100.0	100.0	100.0	0.2	0.2	129.26	-18.2	22.3	28.8	28.8	0.00	N/A		
200.0	200.0	200.0	200.0	0.3	0.3	129.26	-18.2	22.3	28.8	28.8	0.00	N/A		
300.0	300.0	300.0	300.0	0.5	0.5	129.26	-18.2	22.3	28.8	28.8	0.00	N/A		
400.0	400.0	400.0	400.0	0.7	0.7	129.26	-18.2	22.3	28.8	28.8	0.00	N/A		
500.0	500.0	500.0	500.0	0.9	0.9	129.26	-18.2	22.3	28.8	28.8	0.00	N/A CC, ES		
600.0	600.0	599.6	599.6	1.0	1.0	111.40	-17.4	23.8	30.1	30.1	0.00	N/A		
700.0	699.8	699.1	699.0	1.2	1.2	111.37	-14.8	28.3	33.9	33.9	0.00	N/A		
800.0	799.5	798.5	797.9	1.4	1.4	111.31	-10.6	35.8	40.2	40.2	0.00	N/A		
900.0	898.7	897.5	896.2	1.7	1.7	111.23	-4.8	46.3	49.1	49.1	0.00	N/A		
1,000.0	997.5	996.2	993.7	2.0	1.9	111.13	2.7	59.7	60.5	60.5	0.00	N/A		
1,100.0	1,095.6	1,094.4	1,090.1	2.3	2.3	111.00	11.8	75.9	74.3	74.3	0.00	N/A		
1,200.0	1,193.1	1,192.5	1,185.9	2.7	2.6	111.03	22.4	94.7	90.5	90.5	0.00	N/A		
1,300.0	1,289.8	1,291.0	1,281.8	3.1	3.0	112.25	33.2	114.0	107.9	107.9	0.00	N/A		
1,400.0	1,386.6	1,389.4	1,377.7	3.5	3.4	113.30	44.0	133.3	125.4	125.4	0.00	N/A		
1,500.0	1,483.3	1,487.8	1,473.6	4.0	3.8	114.10	54.9	152.6	143.0	143.0	0.00	N/A		
1,600.0	1,580.0	1,586.3	1,569.5	4.4	4.2	114.71	65.7	172.0	160.5	160.5	0.00	N/A		
1,700.0	1,676.8	1,684.7	1,665.4	4.9	4.7	115.21	76.5	191.3	178.1	178.1	0.00	N/A		
1,800.0	1,773.5	1,783.1	1,761.3	5.4	5.1	115.62	87.4	210.6	195.7	195.7	0.00	N/A		
1,900.0	1,870.2	1,881.6	1,857.2	5.8	5.5	115.96	98.2	229.9	213.3	213.3	0.00	N/A		
2,000.0	1,967.0	1,980.0	1,953.2	6.3	5.9	116.25	109.0	249.2	230.9	230.9	0.00	N/A		
2,100.0	2,063.7	2,078.4	2,049.1	6.8	6.3	116.50	119.9	268.5	248.5	248.5	0.00	N/A		
2,200.0	2,160.5	2,176.9	2,145.0	7.2	6.8	116.71	130.7	287.9	266.1	266.1	0.00	N/A		
2,300.0	2,257.2	2,275.3	2,240.9	7.7	7.2	116.90	141.5	307.2	283.7	283.7	0.00	N/A		
2,400.0	2,353.9	2,373.7	2,336.8	8.2	7.6	117.07	152.3	326.5	301.3	301.3	0.00	N/A		
2,500.0	2,450.7	2,472.2	2,432.7	8.6	8.0	117.21	163.2	345.8	318.9	318.9	0.00	N/A		
2,600.0	2,547.4	2,570.6	2,528.6	9.1	8.4	117.35	174.0	365.1	336.5	336.5	0.00	N/A		
2,700.0	2,644.1	2,669.0	2,624.5	9.6	8.9	117.46	184.8	384.4	354.1	354.1	0.00	N/A		
2,800.0	2,740.9	2,767.5	2,720.4	10.1	9.3	117.57	195.7	403.8	371.8	371.8	0.00	N/A		
2,900.0	2,837.6	2,865.9	2,816.3	10.5	9.7	117.67	206.5	423.1	389.4	389.4	0.00	N/A		
3,000.0	2,934.3	2,964.3	2,912.2	11.0	10.2	117.76	217.3	442.4	407.0	407.0	0.00	N/A		
3,100.0	3,031.1	3,062.8	3,008.2	11.5	10.6	117.84	228.2	461.7	424.6	424.6	0.00	N/A		
3,200.0	3,127.8	3,161.2	3,104.1	11.9	11.0	117.92	239.0	481.0	442.2	442.2	0.00	N/A		
3,300.0	3,224.5	3,259.6	3,200.0	12.4	11.4	117.99	249.8	500.3	459.9	459.9	0.00	N/A		
3,400.0	3,321.3	3,358.1	3,295.9	12.9	11.9	118.05	260.7	519.7	477.5	477.5	0.00	N/A		
3,500.0	3,418.0	3,456.5	3,391.8	13.4	12.3	118.11	271.5	539.0	495.1	495.1	0.00	N/A		

# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	Bonanza Creek Energy Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well North Platte N-34
<b>Project:</b>	Weld County	<b>TVD Reference:</b>	KBE @ 4539.0ft (Original Well Elev)
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<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	North Platte N-34	<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>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to KBE @ 4539.0ft (Original Well Elev)

Offset Depths are relative to Offset Datum

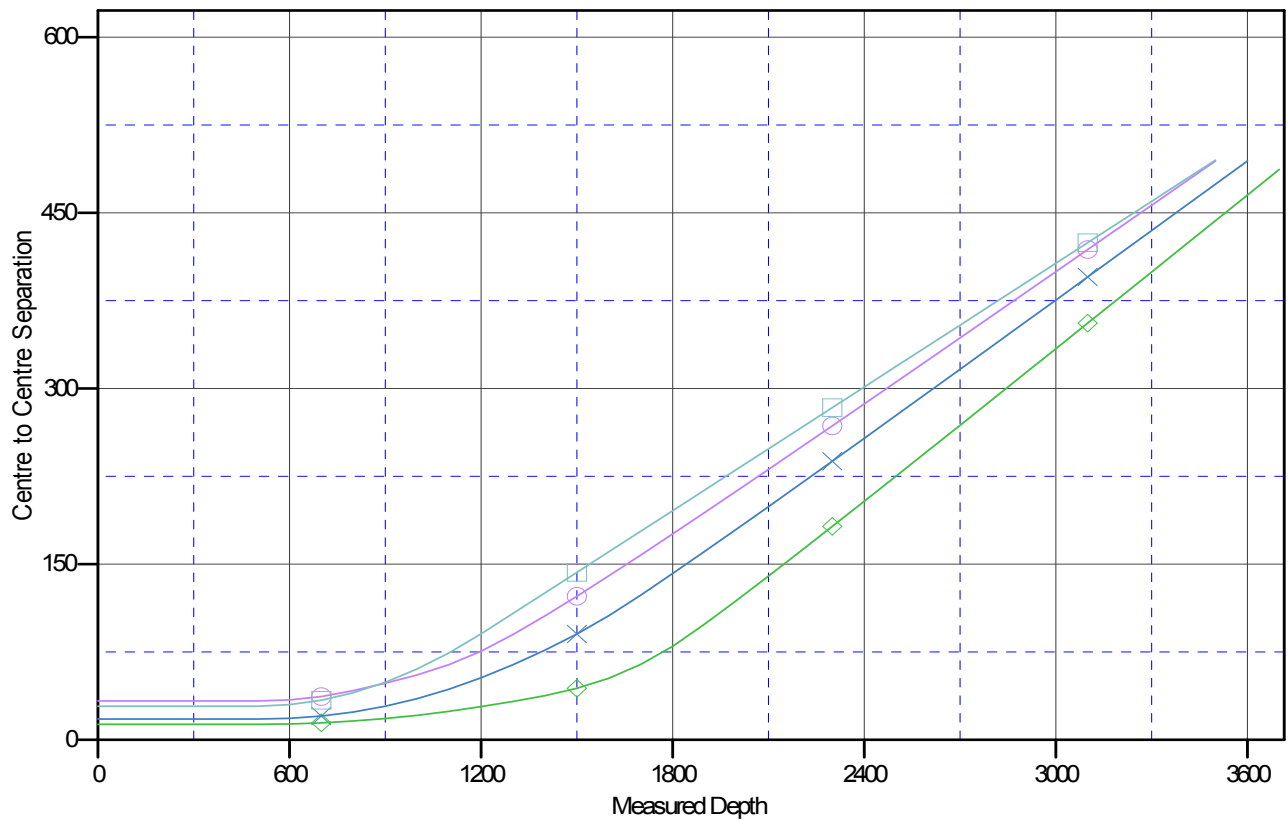
Central Meridian is -105.500000 °

Coordinates are relative to: North Platte N-34

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.70°

### Ladder Plot



### LEGEND

- North Platte 23-34, DD, Plan #2 V0
- North Platte 33-34, DD, Plan #2 V0
- North Platte 24-34, DD, Plan #2 V0
- North Platte 34-34, DD, Plan #2 V0