

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well North Platte 24-34
Company:	Bonanza Creek Energy Operating Company, LLC	TVD Reference:	KBE @ 4539.0ft (Original Well Elev)
Project:	Weld County	MD Reference:	KBE @ 4539.0ft (Original Well Elev)
Site:	North Platte 24-34 Pad (was N-34)	North Reference:	True
Well:	North Platte 24-34	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		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 24-34					
Well Position	+N/-S	0.0 ft	Northing:	1,371,860.07 ft	Latitude:	40.349150
	+E/-W	0.0 ft	Easting:	3,300,051.66 ft	Longitude:	-104.423460
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,529.0 ft

Wellbore	DD				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	4/18/2011	8.70	67.07	53,161

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	335.19

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	
804.5	6.09	335.19	804.0	14.7	-6.8	2.00	2.00	0.00	335.19	
5,757.6	6.09	335.19	5,729.0	491.7	-227.3	0.00	0.00	0.00	0.00	
6,062.1	0.00	0.00	6,033.0	506.4	-234.1	2.00	-2.00	0.00	180.00	North Platte 24-34 TC
6,676.1	0.00	0.00	6,647.0	506.4	-234.1	0.00	0.00	0.00	0.00	North Platte 24-34 PE

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Well:	North Platte 24-34	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	KOP @ 500'
600.0	2.00	335.19	600.0	1.6	-0.7	1.7	2.00	2.00	
700.0	4.00	335.19	699.8	6.3	-2.9	7.0	2.00	2.00	
804.5	6.09	335.19	804.0	14.7	-6.8	16.2	2.00	2.00	EOB @ Inc. = 6.09°
900.0	6.09	335.19	898.9	23.9	-11.0	26.3	0.00	0.00	
1,000.0	6.09	335.19	998.3	33.5	-15.5	36.9	0.00	0.00	
1,100.0	6.09	335.19	1,097.8	43.1	-19.9	47.5	0.00	0.00	
1,200.0	6.09	335.19	1,197.2	52.8	-24.4	58.1	0.00	0.00	
1,300.0	6.09	335.19	1,296.6	62.4	-28.8	68.7	0.00	0.00	
1,400.0	6.09	335.19	1,396.1	72.0	-33.3	79.4	0.00	0.00	
1,500.0	6.09	335.19	1,495.5	81.7	-37.8	90.0	0.00	0.00	
1,600.0	6.09	335.19	1,594.9	91.3	-42.2	100.6	0.00	0.00	
1,700.0	6.09	335.19	1,694.4	100.9	-46.7	111.2	0.00	0.00	
1,800.0	6.09	335.19	1,793.8	110.6	-51.1	121.8	0.00	0.00	
1,900.0	6.09	335.19	1,893.2	120.2	-55.6	132.4	0.00	0.00	
2,000.0	6.09	335.19	1,992.7	129.8	-60.0	143.0	0.00	0.00	
2,100.0	6.09	335.19	2,092.1	139.4	-64.5	153.6	0.00	0.00	
2,200.0	6.09	335.19	2,191.5	149.1	-68.9	164.2	0.00	0.00	
2,300.0	6.09	335.19	2,291.0	158.7	-73.4	174.8	0.00	0.00	
2,400.0	6.09	335.19	2,390.4	168.3	-77.8	185.5	0.00	0.00	
2,500.0	6.09	335.19	2,489.9	178.0	-82.3	196.1	0.00	0.00	
2,600.0	6.09	335.19	2,589.3	187.6	-86.7	206.7	0.00	0.00	
2,700.0	6.09	335.19	2,688.7	197.2	-91.2	217.3	0.00	0.00	
2,800.0	6.09	335.19	2,788.2	206.9	-95.6	227.9	0.00	0.00	
2,900.0	6.09	335.19	2,887.6	216.5	-100.1	238.5	0.00	0.00	
3,000.0	6.09	335.19	2,987.0	226.1	-104.5	249.1	0.00	0.00	
3,100.0	6.09	335.19	3,086.5	235.8	-109.0	259.7	0.00	0.00	
3,200.0	6.09	335.19	3,185.9	245.4	-113.5	270.3	0.00	0.00	
3,300.0	6.09	335.19	3,285.3	255.0	-117.9	281.0	0.00	0.00	
3,400.0	6.09	335.19	3,384.8	264.6	-122.4	291.6	0.00	0.00	
3,500.0	6.09	335.19	3,484.2	274.3	-126.8	302.2	0.00	0.00	
3,600.0	6.09	335.19	3,583.6	283.9	-131.3	312.8	0.00	0.00	
3,700.0	6.09	335.19	3,683.1	293.5	-135.7	323.4	0.00	0.00	
3,800.0	6.09	335.19	3,782.5	303.2	-140.2	334.0	0.00	0.00	
3,900.0	6.09	335.19	3,882.0	312.8	-144.6	344.6	0.00	0.00	
4,000.0	6.09	335.19	3,981.4	322.4	-149.1	355.2	0.00	0.00	
4,100.0	6.09	335.19	4,080.8	332.1	-153.5	365.8	0.00	0.00	
4,200.0	6.09	335.19	4,180.3	341.7	-158.0	376.4	0.00	0.00	
4,300.0	6.09	335.19	4,279.7	351.3	-162.4	387.1	0.00	0.00	
4,400.0	6.09	335.19	4,379.1	361.0	-166.9	397.7	0.00	0.00	
4,500.0	6.09	335.19	4,478.6	370.6	-171.3	408.3	0.00	0.00	
4,600.0	6.09	335.19	4,578.0	380.2	-175.8	418.9	0.00	0.00	
4,700.0	6.09	335.19	4,677.4	389.9	-180.2	429.5	0.00	0.00	
4,800.0	6.09	335.19	4,776.9	399.5	-184.7	440.1	0.00	0.00	
4,900.0	6.09	335.19	4,876.3	409.1	-189.1	450.7	0.00	0.00	
5,000.0	6.09	335.19	4,975.7	418.7	-193.6	461.3	0.00	0.00	
5,100.0	6.09	335.19	5,075.2	428.4	-198.1	471.9	0.00	0.00	

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Well:	North Platte 24-34	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
5,200.0	6.09	335.19	5,174.6	438.0	-202.5	482.6	0.00	0.00	
5,300.0	6.09	335.19	5,274.0	447.6	-207.0	493.2	0.00	0.00	
5,400.0	6.09	335.19	5,373.5	457.3	-211.4	503.8	0.00	0.00	
5,500.0	6.09	335.19	5,472.9	466.9	-215.9	514.4	0.00	0.00	
5,600.0	6.09	335.19	5,572.4	476.5	-220.3	525.0	0.00	0.00	
5,700.0	6.09	335.19	5,671.8	486.2	-224.8	535.6	0.00	0.00	
5,757.6	6.09	335.19	5,729.0	491.7	-227.3	541.7	0.00	0.00	Start 2° Drop
5,800.0	5.24	335.19	5,771.3	495.5	-229.1	545.9	2.00	-2.00	
5,900.0	3.24	335.19	5,871.0	502.2	-232.2	553.3	2.00	-2.00	
6,000.0	1.24	335.19	5,970.9	505.8	-233.8	557.2	2.00	-2.00	
6,062.1	0.00	0.00	6,033.0	506.4	-234.1	557.9	2.00	-2.00	EOD @ Inc. = 0°
6,100.0	0.00	0.00	6,070.9	506.4	-234.1	557.9	0.00	0.00	
6,200.0	0.00	0.00	6,170.9	506.4	-234.1	557.9	0.00	0.00	
6,262.1	0.00	0.00	6,233.0	506.4	-234.1	557.9	0.00	0.00	Niobrara
6,300.0	0.00	0.00	6,270.9	506.4	-234.1	557.9	0.00	0.00	
6,400.0	0.00	0.00	6,370.9	506.4	-234.1	557.9	0.00	0.00	
6,492.1	0.00	0.00	6,463.0	506.4	-234.1	557.9	0.00	0.00	Ft. Hayes
6,500.0	0.00	0.00	6,470.9	506.4	-234.1	557.9	0.00	0.00	
6,516.1	0.00	0.00	6,487.0	506.4	-234.1	557.9	0.00	0.00	Codell
6,530.1	0.00	0.00	6,501.0	506.4	-234.1	557.9	0.00	0.00	Carlile
6,570.1	0.00	0.00	6,541.0	506.4	-234.1	557.9	0.00	0.00	Greenhorn
6,600.0	0.00	0.00	6,570.9	506.4	-234.1	557.9	0.00	0.00	
6,676.1	0.00	0.00	6,647.0	506.4	-234.1	557.9	0.00	0.00	TD @ 6,676.1' 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 24-34 TGT	0.00	0.00	5,810.0	506.4	-234.1	1,372,363.57	3,299,811.41	40.350540	-104.424300
- plan misses target center by 8.7ft at 5839.5ft MD (5810.6 TVD, 498.5 N, -230.5 E)									
- Point									
North Platte 24-34 TGT	0.00	0.00	6,033.0	506.4	-234.1	1,372,363.57	3,299,811.41	40.350540	-104.424300
- plan hits target center									
- Point									
North Platte 24-34 PBHL	0.00	0.00	6,647.0	506.4	-234.1	1,372,363.57	3,299,811.41	40.350540	-104.424300
- plan hits target center									
- Circle (radius 50.0)									
North Platte 24-34 PBHL	0.00	0.00	6,610.0	506.4	-234.1	1,372,363.57	3,299,811.41	40.350540	-104.424300
- plan hits target center									
- Circle (radius 50.0)									

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Project:	Weld County	MD Reference:	KBE @ 4539.0ft (Original Well Elev)
Site:	North Platte 24-34 Pad (was N-34)	North Reference:	True
Well:	North Platte 24-34	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #2		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
6,262.1	6,233.0	Niobrara				
6,492.1	6,463.0	Ft. Hayes				
6,516.1	6,487.0	Codell				
6,530.1	6,501.0	Carlile				
6,570.1	6,541.0	Greenhorn				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
500.0	500.0	0.0	0.0	KOP @ 500'	
804.5	804.0	14.7	-6.8	EOB @ Inc. = 6.09°	
5,757.6	5,729.0	491.7	-227.3	Start 2° Drop	
6,062.1	6,033.0	506.4	-234.1	EOD @ Inc. = 0°	
6,676.1	6,647.0	506.4	-234.1	TD @ 6,676.1' MD	

Bonanza Creek Energy Operating Company, LLC

Weld County

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

North Platte 24-34

DD

Plan #2

Anticollision Report

20 October, 2011

Cathedral Energy Services

Anticollision Report

Company:	Bonanza Creek Energy Operating Company, LLC	Local Co-ordinate Reference:	Well North Platte 24-34
Project:	Weld County	TVD Reference:	KBE @ 4539.0ft (Original Well Elev)
Reference Site:	North Platte 24-34 Pad (was N-34)	MD Reference:	KBE @ 4539.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	North Platte 24-34	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 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 500.0ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program		Date	10/20/2011		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	6,676.1	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						
North Platte 24-34 Pad (was N-34)						
North Platte 23-34 - DD - Plan #2	0.0	0.0	15.6			
North Platte 23-34 - DD - Plan #2	500.0	500.0	15.6	15.6	10,000.000	CC, ES
North Platte 33-34 - DD - Plan #2	0.0	0.0	46.5			
North Platte 33-34 - DD - Plan #2	500.0	500.0	46.5	46.5	10,000.000	CC, ES
North Platte 34-34 - DD - Plan #2	0.0	0.0	62.1			
North Platte 34-34 - DD - Plan #2	500.0	500.0	62.1	62.1	10,000.000	CC, ES

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Reference Site:	North Platte 24-34 Pad (was N-34)	MD Reference:	KBE @ 4539.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	North Platte 24-34	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	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									
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	134.43	-10.9	11.1	15.6						
100.0	100.0	100.0	100.0	0.2	0.2	134.43	-10.9	11.1	15.6	15.6	0.00	N/A			
200.0	200.0	200.0	200.0	0.3	0.3	134.43	-10.9	11.1	15.6	15.6	0.00	N/A			
300.0	300.0	300.0	300.0	0.5	0.5	134.43	-10.9	11.1	15.6	15.6	0.00	N/A			
400.0	400.0	400.0	400.0	0.7	0.7	134.43	-10.9	11.1	15.6	15.6	0.00	N/A			
500.0	500.0	500.0	500.0	0.9	0.9	134.43	-10.9	11.1	15.6	15.6	0.00	N/A CC, ES			
600.0	600.0	600.4	600.4	1.0	1.0	157.57	-9.2	10.9	15.9	15.9	0.00	N/A			
700.0	699.8	700.8	700.7	1.2	1.2	152.89	-4.0	10.2	16.7	16.7	0.00	N/A			
800.0	799.5	801.2	800.7	1.4	1.4	146.14	4.8	9.1	18.3	18.3	0.00	N/A			
900.0	898.9	901.5	900.2	1.6	1.7	135.58	16.9	7.4	19.8	19.8	0.00	N/A			
1,000.0	998.3	1,001.5	999.0	1.9	2.0	117.67	32.5	5.4	20.9	20.9	0.00	N/A			
1,100.0	1,097.8	1,101.1	1,096.7	2.1	2.3	94.69	51.3	2.8	24.2	24.2	0.00	N/A			
1,200.0	1,197.2	1,200.0	1,193.1	2.4	2.7	73.75	73.4	-0.1	32.1	32.1	0.00	N/A			
1,300.0	1,296.6	1,297.6	1,287.4	2.6	3.1	59.03	98.4	-3.5	45.0	45.0	0.00	N/A			
1,400.0	1,396.1	1,394.3	1,379.8	2.8	3.6	49.42	126.3	-7.2	62.4	62.4	0.00	N/A			
1,500.0	1,495.5	1,489.5	1,470.0	3.1	4.2	43.07	156.8	-11.3	83.7	83.7	0.00	N/A			
1,600.0	1,594.9	1,583.2	1,557.6	3.3	4.7	38.69	189.7	-15.6	108.5	108.5	0.00	N/A			
1,700.0	1,694.4	1,676.4	1,643.7	3.6	5.4	35.51	225.0	-20.4	136.6	136.6	0.00	N/A			
1,800.0	1,793.8	1,771.9	1,731.6	3.8	6.0	33.28	262.0	-25.3	165.7	165.7	0.00	N/A			
1,900.0	1,893.2	1,867.4	1,819.6	4.1	6.6	31.72	298.9	-30.2	195.0	195.0	0.00	N/A			
2,000.0	1,992.7	1,963.0	1,907.5	4.3	7.3	30.56	335.9	-35.2	224.3	224.3	0.00	N/A			
2,100.0	2,092.1	2,058.5	1,995.4	4.6	7.9	29.67	372.8	-40.1	253.8	253.8	0.00	N/A			
2,200.0	2,191.5	2,154.0	2,083.4	4.8	8.6	28.96	409.8	-45.0	283.3	283.3	0.00	N/A			
2,300.0	2,291.0	2,249.5	2,171.3	5.1	9.3	28.39	446.7	-50.0	312.8	312.8	0.00	N/A			
2,400.0	2,390.4	2,345.0	2,259.2	5.3	9.9	27.92	483.7	-54.9	342.3	342.3	0.00	N/A			
2,500.0	2,489.9	2,440.5	2,347.1	5.6	10.6	27.52	520.6	-59.9	371.8	371.8	0.00	N/A			
2,600.0	2,589.3	2,536.0	2,435.1	5.8	11.3	27.18	557.5	-64.8	401.4	401.4	0.00	N/A			
2,700.0	2,688.7	2,631.5	2,523.0	6.1	11.9	26.89	594.5	-69.7	431.0	431.0	0.00	N/A			
2,800.0	2,788.2	2,727.0	2,610.9	6.3	12.6	26.63	631.4	-74.7	460.6	460.6	0.00	N/A			
2,900.0	2,887.6	2,822.5	2,698.9	6.6	13.3	26.41	668.4	-79.6	490.1	490.1	0.00	N/A			

Cathedral Energy Services

Anticollision Report

Company:	Bonanza Creek Energy Operating Company, LLC	Local Co-ordinate Reference:	Well North Platte 24-34
Project:	Weld County	TVD Reference:	KBE @ 4539.0ft (Original Well Elev)
Reference Site:	North Platte 24-34 Pad (was N-34)	MD Reference:	KBE @ 4539.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	North Platte 24-34	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	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					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	128.81	-29.1	36.2	46.5				
100.0	100.0	100.0	100.0	0.2	0.2	128.81	-29.1	36.2	46.5	46.5	0.00	N/A	
200.0	200.0	200.0	200.0	0.3	0.3	128.81	-29.1	36.2	46.5	46.5	0.00	N/A	
300.0	300.0	300.0	300.0	0.5	0.5	128.81	-29.1	36.2	46.5	46.5	0.00	N/A	
400.0	400.0	400.0	400.0	0.7	0.7	128.81	-29.1	36.2	46.5	46.5	0.00	N/A	
500.0	500.0	500.0	500.0	0.9	0.9	128.81	-29.1	36.2	46.5	46.5	0.00	N/A	CC, ES
600.0	600.0	600.3	600.3	1.0	1.0	152.48	-27.6	37.1	47.7	47.7	0.00	N/A	
700.0	699.8	700.4	700.2	1.2	1.2	149.37	-23.0	39.5	51.6	51.6	0.00	N/A	
800.0	799.5	800.3	799.7	1.4	1.4	145.13	-15.3	43.6	58.2	58.2	0.00	N/A	
900.0	898.9	899.7	898.4	1.6	1.7	139.86	-4.6	49.3	66.7	66.7	0.00	N/A	
1,000.0	998.3	998.7	996.2	1.9	2.0	133.26	9.1	56.6	76.1	76.1	0.00	N/A	
1,100.0	1,097.8	1,096.9	1,092.6	2.1	2.3	126.02	25.5	65.4	87.3	87.3	0.00	N/A	
1,200.0	1,197.2	1,194.1	1,187.3	2.4	2.7	118.76	44.7	75.6	100.8	100.8	0.00	N/A	
1,300.0	1,296.6	1,290.2	1,280.2	2.6	3.1	111.91	66.4	87.2	117.2	117.2	0.00	N/A	
1,400.0	1,396.1	1,384.9	1,370.9	2.8	3.6	105.74	90.5	100.0	136.9	136.9	0.00	N/A	
1,500.0	1,495.5	1,478.0	1,459.1	3.1	4.1	100.33	116.8	114.0	159.9	159.9	0.00	N/A	
1,600.0	1,594.9	1,569.5	1,544.8	3.3	4.7	95.67	145.0	129.0	186.3	186.3	0.00	N/A	
1,700.0	1,694.4	1,659.1	1,627.8	3.6	5.3	91.69	175.0	145.0	216.0	216.0	0.00	N/A	
1,800.0	1,793.8	1,746.8	1,707.8	3.8	5.9	88.31	206.5	161.8	248.9	248.9	0.00	N/A	
1,900.0	1,893.2	1,832.5	1,785.0	4.1	6.6	85.42	239.4	179.4	284.9	284.9	0.00	N/A	
2,000.0	1,992.7	1,923.0	1,865.7	4.3	7.3	82.86	275.5	198.6	322.9	322.9	0.00	N/A	
2,100.0	2,092.1	2,014.5	1,947.3	4.6	8.0	80.80	312.1	218.1	361.4	361.4	0.00	N/A	
2,200.0	2,191.5	2,106.1	2,029.0	4.8	8.8	79.13	348.7	237.6	400.3	400.3	0.00	N/A	
2,300.0	2,291.0	2,197.7	2,110.6	5.1	9.5	77.76	385.3	257.1	439.4	439.4	0.00	N/A	
2,400.0	2,390.4	2,289.2	2,192.3	5.3	10.2	76.61	421.8	276.6	478.7	478.7	0.00	N/A	

Cathedral Energy Services

Anticollision Report

Company:	Bonanza Creek Energy Operating Company, LLC	Local Co-ordinate Reference:	Well North Platte 24-34
Project:	Weld County	TVD Reference:	KBE @ 4539.0ft (Original Well Elev)
Reference Site:	North Platte 24-34 Pad (was N-34)	MD Reference:	KBE @ 4539.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	North Platte 24-34	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	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		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	130.22	-40.1	47.4	62.1					
100.0	100.0	100.0	100.0	0.2	0.2	130.22	-40.1	47.4	62.1	62.1	0.00	N/A		
200.0	200.0	200.0	200.0	0.3	0.3	130.22	-40.1	47.4	62.1	62.1	0.00	N/A		
300.0	300.0	300.0	300.0	0.5	0.5	130.22	-40.1	47.4	62.1	62.1	0.00	N/A		
400.0	400.0	400.0	400.0	0.7	0.7	130.22	-40.1	47.4	62.1	62.1	0.00	N/A		
500.0	500.0	500.0	500.0	0.9	0.9	130.22	-40.1	47.4	62.1	62.1	0.00	N/A CC, ES		
600.0	600.0	599.2	599.2	1.0	1.0	154.23	-39.2	48.9	64.2	64.2	0.00	N/A		
700.0	699.8	698.1	697.9	1.2	1.2	152.12	-36.7	53.4	70.9	70.9	0.00	N/A		
800.0	799.5	796.3	795.7	1.4	1.4	149.36	-32.6	60.7	82.1	82.1	0.00	N/A		
900.0	898.9	893.7	892.4	1.6	1.7	146.19	-26.9	70.9	96.6	96.6	0.00	N/A		
1,000.0	998.3	990.2	987.8	1.9	1.9	142.43	-19.6	83.9	113.2	113.2	0.00	N/A		
1,100.0	1,097.8	1,085.7	1,081.6	2.1	2.2	138.51	-10.9	99.4	132.0	132.0	0.00	N/A		
1,200.0	1,197.2	1,181.0	1,174.7	2.4	2.6	134.67	-0.7	117.5	153.3	153.3	0.00	N/A		
1,300.0	1,296.6	1,278.1	1,269.2	2.6	3.0	131.53	9.9	136.6	175.7	175.7	0.00	N/A		
1,400.0	1,396.1	1,375.2	1,363.8	2.8	3.4	129.10	20.6	155.6	198.4	198.4	0.00	N/A		
1,500.0	1,495.5	1,472.2	1,458.4	3.1	3.8	127.17	31.3	174.7	221.4	221.4	0.00	N/A		
1,600.0	1,594.9	1,569.3	1,553.0	3.3	4.2	125.60	42.0	193.7	244.6	244.6	0.00	N/A		
1,700.0	1,694.4	1,666.4	1,647.6	3.6	4.6	124.31	52.7	212.8	268.0	268.0	0.00	N/A		
1,800.0	1,793.8	1,763.4	1,742.2	3.8	5.0	123.22	63.3	231.8	291.4	291.4	0.00	N/A		
1,900.0	1,893.2	1,860.5	1,836.7	4.1	5.4	122.29	74.0	250.9	315.0	315.0	0.00	N/A		
2,000.0	1,992.7	1,957.6	1,931.3	4.3	5.8	121.49	84.7	269.9	338.6	338.6	0.00	N/A		
2,100.0	2,092.1	2,054.7	2,025.9	4.6	6.2	120.80	95.4	289.0	362.3	362.3	0.00	N/A		
2,200.0	2,191.5	2,151.7	2,120.5	4.8	6.6	120.19	106.1	308.0	386.0	386.0	0.00	N/A		
2,300.0	2,291.0	2,248.8	2,215.1	5.1	7.1	119.65	116.8	327.1	409.7	409.7	0.00	N/A		
2,400.0	2,390.4	2,345.9	2,309.7	5.3	7.5	119.17	127.4	346.1	433.5	433.5	0.00	N/A		
2,500.0	2,489.9	2,443.0	2,404.2	5.6	7.9	118.75	138.1	365.2	457.3	457.3	0.00	N/A		
2,600.0	2,589.3	2,540.0	2,498.8	5.8	8.3	118.36	148.8	384.2	481.1	481.1	0.00	N/A		

Cathedral Energy Services

Anticollision Report

Company:	Bonanza Creek Energy Operating Company, LLC	Local Co-ordinate Reference:	Well North Platte 24-34
Project:	Weld County	TVD Reference:	KBE @ 4539.0ft (Original Well Elev)
Reference Site:	North Platte 24-34 Pad (was N-34)	MD Reference:	KBE @ 4539.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	North Platte 24-34	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

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

Offset Depths are relative to Offset Datum

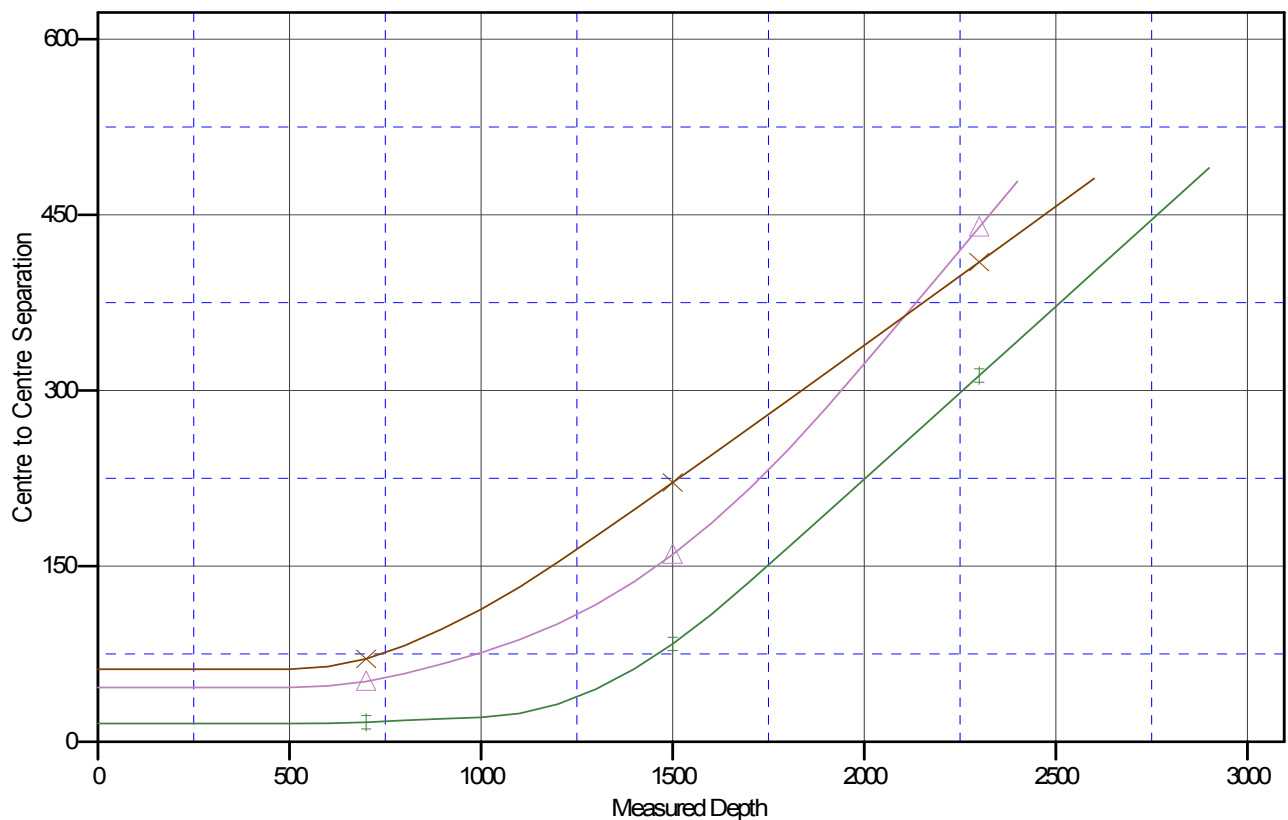
Central Meridian is -105.500000 °

Coordinates are relative to: North Platte 24-34

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 34-34, DD, Plan #2 V0