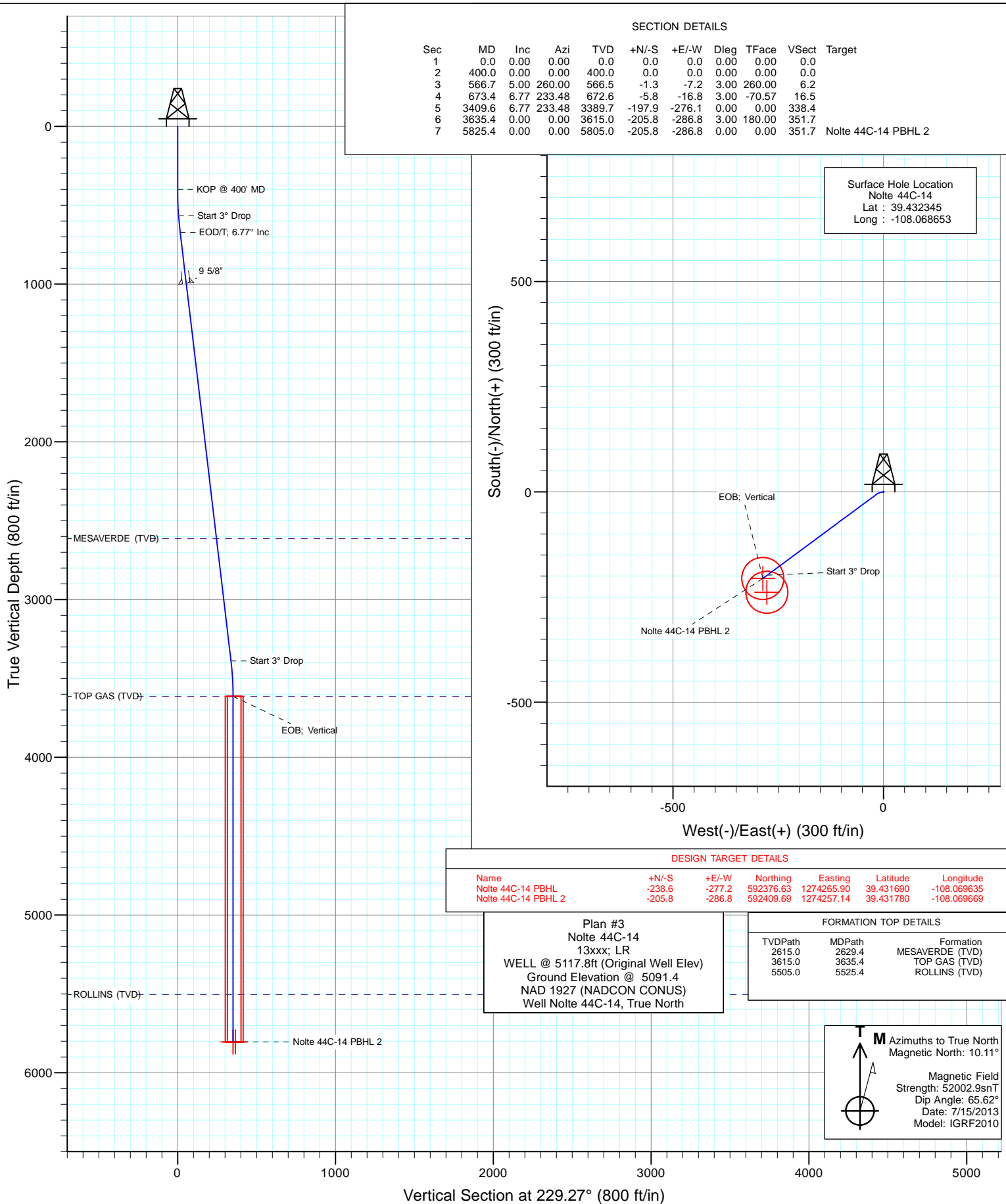




Project: Garfield County, CO
Site: S14-T7S-R96W
Well: Nolte 44C-14
Wellbore: DD
Design: Plan #3



Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Nolte 44C-14
Company:	Caerus Oil & Gas (NAD 27)	TVD Reference:	WELL @ 5117.8ft (Original Well Elev)
Project:	Garfield County, CO	MD Reference:	WELL @ 5117.8ft (Original Well Elev)
Site:	S14-T7S-R96W	North Reference:	True
Well:	Nolte 44C-14	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #3		

Project	Garfield County, CO		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Colorado Central 502		

Site		S14-T7S-R96W			
Site Position:		Northing:		592,603.28 ft	
From:		Easting:		1,274,372.48 ft	
Position Uncertainty:		Slot Radius:		Grid Convergence:	
Lat/Long		0.0 ft		13.200 in	
				-108.069280	
				-1.62 °	

Well	Nolte 44C-14					
Well Position	+N/-S	0.0 ft	Northing:	592,607.31 ft	Latitude:	39.432345
	+E/-W	0.0 ft	Easting:	1,274,549.69 ft	Longitude:	-108.068653
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	5,091.4 ft

Wellbore	DD				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2010	7/15/2013	10.11	65.62	52,003

Design	Plan #3			
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	229.27

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	
400.0	0.00	0.00	400.0	0.0	0.0	0.00	0.00	0.00	0.00	
566.7	5.00	260.00	566.5	-1.3	-7.2	3.00	3.00	0.00	260.00	
673.4	6.77	233.48	672.6	-5.8	-16.8	3.00	1.66	-24.85	-70.57	
3,409.6	6.77	233.48	3,389.7	-197.9	-276.1	0.00	0.00	0.00	0.00	
3,635.4	0.00	0.00	3,615.0	-205.8	-286.8	3.00	-3.00	0.00	180.00	
5,825.4	0.00	0.00	5,805.0	-205.8	-286.8	0.00	0.00	0.00	0.00	Nolte 44C-14 PBHL 2

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Nolte 44C-14
Company:	Caerus Oil & Gas (NAD 27)	TVD Reference:	WELL @ 5117.8ft (Original Well Elev)
Project:	Garfield County, CO	MD Reference:	WELL @ 5117.8ft (Original Well Elev)
Site:	S14-T7S-R96W	North Reference:	True
Well:	Nolte 44C-14	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #3		

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	KOP @ 400' MD
500.0	3.00	260.00	500.0	-0.5	-2.6	2.2	3.00	3.00	
566.7	5.00	260.00	566.5	-1.3	-7.2	6.2	3.00	3.00	Start 3° Drop
600.0	5.42	249.96	599.7	-2.1	-10.1	9.0	3.00	1.25	
673.4	6.77	233.48	672.6	-5.8	-16.8	16.5	3.00	1.85	EOD/T; 6.77° Inc
700.0	6.77	233.48	699.1	-7.7	-19.3	19.7	0.00	0.00	
800.0	6.77	233.48	798.4	-14.7	-28.8	31.4	0.00	0.00	
900.0	6.77	233.48	897.7	-21.7	-38.3	43.2	0.00	0.00	
1,000.0	6.77	233.48	997.0	-28.7	-47.8	54.9	0.00	0.00	9 5/8"
1,100.0	6.77	233.48	1,096.3	-35.8	-57.2	66.7	0.00	0.00	
1,200.0	6.77	233.48	1,195.6	-42.8	-66.7	78.5	0.00	0.00	
1,300.0	6.77	233.48	1,294.9	-49.8	-76.2	90.2	0.00	0.00	
1,400.0	6.77	233.48	1,394.2	-56.8	-85.7	102.0	0.00	0.00	
1,500.0	6.77	233.48	1,493.5	-63.8	-95.1	113.8	0.00	0.00	
1,600.0	6.77	233.48	1,592.8	-70.9	-104.6	125.5	0.00	0.00	
1,700.0	6.77	233.48	1,692.1	-77.9	-114.1	137.3	0.00	0.00	
1,800.0	6.77	233.48	1,791.4	-84.9	-123.6	149.0	0.00	0.00	
1,900.0	6.77	233.48	1,890.7	-91.9	-133.1	160.8	0.00	0.00	
2,000.0	6.77	233.48	1,990.0	-98.9	-142.5	172.6	0.00	0.00	
2,100.0	6.77	233.48	2,089.3	-106.0	-152.0	184.3	0.00	0.00	
2,200.0	6.77	233.48	2,188.6	-113.0	-161.5	196.1	0.00	0.00	
2,300.0	6.77	233.48	2,287.9	-120.0	-171.0	207.9	0.00	0.00	
2,400.0	6.77	233.48	2,387.2	-127.0	-180.4	219.6	0.00	0.00	
2,500.0	6.77	233.48	2,486.5	-134.0	-189.9	231.4	0.00	0.00	
2,600.0	6.77	233.48	2,585.8	-141.1	-199.4	243.1	0.00	0.00	
2,629.4	6.77	233.48	2,615.0	-143.1	-202.2	246.6	0.00	0.00	MESAVERDE (TVD)
2,700.0	6.77	233.48	2,685.1	-148.1	-208.9	254.9	0.00	0.00	
2,800.0	6.77	233.48	2,784.4	-155.1	-218.4	266.7	0.00	0.00	
2,900.0	6.77	233.48	2,883.7	-162.1	-227.8	278.4	0.00	0.00	
3,000.0	6.77	233.48	2,983.0	-169.1	-237.3	290.2	0.00	0.00	
3,100.0	6.77	233.48	3,082.3	-176.1	-246.8	302.0	0.00	0.00	
3,200.0	6.77	233.48	3,181.6	-183.2	-256.3	313.7	0.00	0.00	
3,300.0	6.77	233.48	3,280.9	-190.2	-265.7	325.5	0.00	0.00	
3,409.6	6.77	233.48	3,389.7	-197.9	-276.1	338.4	0.00	0.00	Start 3° Drop
3,500.0	4.06	233.48	3,479.7	-203.0	-283.0	346.9	3.00	-3.00	
3,600.0	1.06	233.48	3,579.6	-205.6	-286.6	351.3	3.00	-3.00	
3,635.4	0.00	0.00	3,615.0	-205.8	-286.8	351.7	3.00	-3.00	EOB; Vertical - TOP GAS (TVD)
3,700.0	0.00	0.00	3,679.6	-205.8	-286.8	351.7	0.00	0.00	
3,800.0	0.00	0.00	3,779.6	-205.8	-286.8	351.7	0.00	0.00	
3,900.0	0.00	0.00	3,879.6	-205.8	-286.8	351.7	0.00	0.00	
4,000.0	0.00	0.00	3,979.6	-205.8	-286.8	351.7	0.00	0.00	
4,100.0	0.00	0.00	4,079.6	-205.8	-286.8	351.7	0.00	0.00	
4,200.0	0.00	0.00	4,179.6	-205.8	-286.8	351.7	0.00	0.00	
4,300.0	0.00	0.00	4,279.6	-205.8	-286.8	351.7	0.00	0.00	
4,400.0	0.00	0.00	4,379.6	-205.8	-286.8	351.7	0.00	0.00	
4,500.0	0.00	0.00	4,479.6	-205.8	-286.8	351.7	0.00	0.00	
4,600.0	0.00	0.00	4,579.6	-205.8	-286.8	351.7	0.00	0.00	
4,700.0	0.00	0.00	4,679.6	-205.8	-286.8	351.7	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Nolte 44C-14
Company:	Caerus Oil & Gas (NAD 27)	TVD Reference:	WELL @ 5117.8ft (Original Well Elev)
Project:	Garfield County, CO	MD Reference:	WELL @ 5117.8ft (Original Well Elev)
Site:	S14-T7S-R96W	North Reference:	True
Well:	Nolte 44C-14	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #3		

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
4,800.0	0.00	0.00	4,779.6	-205.8	-286.8	351.7	0.00	0.00	
4,900.0	0.00	0.00	4,879.6	-205.8	-286.8	351.7	0.00	0.00	
5,000.0	0.00	0.00	4,979.6	-205.8	-286.8	351.7	0.00	0.00	
5,100.0	0.00	0.00	5,079.6	-205.8	-286.8	351.7	0.00	0.00	
5,200.0	0.00	0.00	5,179.6	-205.8	-286.8	351.7	0.00	0.00	
5,300.0	0.00	0.00	5,279.6	-205.8	-286.8	351.7	0.00	0.00	
5,400.0	0.00	0.00	5,379.6	-205.8	-286.8	351.7	0.00	0.00	
5,500.0	0.00	0.00	5,479.6	-205.8	-286.8	351.7	0.00	0.00	
5,525.4	0.00	0.00	5,505.0	-205.8	-286.8	351.7	0.00	0.00	ROLLINS (TVD)
5,600.0	0.00	0.00	5,579.6	-205.8	-286.8	351.7	0.00	0.00	
5,700.0	0.00	0.00	5,679.6	-205.8	-286.8	351.7	0.00	0.00	
5,800.0	0.00	0.00	5,779.6	-205.8	-286.8	351.7	0.00	0.00	
5,825.4	0.00	0.00	5,805.0	-205.8	-286.8	351.7	0.00	0.00	PBHL @ 5825' 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									
Nolte 44C-14 PBHL 2	0.00	0.00	5,805.0	-205.8	-286.8	592,409.69	1,274,257.14	39.431780	-108.069669
- plan hits target center									
- Circle (radius 50.0)									
Nolte 44C-14 PBHL	0.00	0.00	5,805.0	-238.6	-277.2	592,376.63	1,274,265.90	39.431690	-108.069635
- plan misses target center by 34.2ft at 5825.4ft MD (5805.0 TVD, -205.8 N, -286.8 E)									
- Circle (radius 50.0)									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,000.0	997.0	9 5/8"	9.625	12.250	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
2,629.4	2,615.0	MESAVERDE (TVD)			
3,635.4	3,615.0	TOP GAS (TVD)			
5,525.4	5,505.0	ROLLINS (TVD)			

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Nolte 44C-14
Company:	Caerus Oil & Gas (NAD 27)	TVD Reference:	WELL @ 5117.8ft (Original Well Elev)
Project:	Garfield County, CO	MD Reference:	WELL @ 5117.8ft (Original Well Elev)
Site:	S14-T7S-R96W	North Reference:	True
Well:	Nolte 44C-14	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #3		

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
400.0	400.0	0.0	0.0	KOP @ 400' MD
566.7	566.5	-1.3	-7.2	Start 3° Drop
673.4	672.6	-5.8	-16.8	EOD/T; 6.77° Inc
3,409.6	3,389.7	-197.9	-276.1	Start 3° Drop
3,635.4	3,615.0	-205.8	-286.8	EOB; Vertical
5,825.4	5,805.0	-205.8	-286.8	PBHL @ 5825' MD

Caerus Oil & Gas (NAD 27)

Garfield County, CO

S14-T7S-R96W

Nolte 44C-14

DD

Plan #3

Anticollision Report

09 September, 2013

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 44C-14
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.8ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.8ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 44C-14	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 #3	Offset TVD Reference:	Offset Datum

Reference	Plan #3		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.0ft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 1,356.1ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program		Date	8/29/2013		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	5,825.3	Plan #3 (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						
S14-T7S-R96W						
Nolte 11A-24 - DD - Plan #3	300.0	300.0	12.8	11.9	13.424	CC, ES
Nolte 11A-24 - DD - Plan #3	400.0	399.5	14.5	13.2	11.081	SF
Nolte 11B-24 - DD - Plan #3	200.0	200.0	10.0	9.4	16.531	CC, ES
Nolte 11B-24 - DD - Plan #3	300.0	299.4	12.4	11.5	12.935	SF
Nolte 11C-24 - DD - Plan #3	244.2	234.5	12.8	12.0	16.854	CC, ES
Nolte 11C-24 - DD - Plan #3	400.0	389.1	17.9	16.5	13.565	SF
Nolte 13A-13 - DD - Plan #3	200.0	200.0	56.0	55.4	92.520	CC, ES
Nolte 13A-13 - DD - Plan #3	500.0	489.0	80.3	78.7	49.120	SF
Nolte 13B-13 - DD - Plan #3	233.3	233.3	48.0	47.3	66.524	CC, ES
Nolte 13B-13 - DD - Plan #3	500.0	492.4	65.4	63.7	39.822	SF
Nolte 13C-13 - DD - Plan #3	200.0	199.8	56.9	56.3	94.115	CC, ES
Nolte 13C-13 - DD - Plan #3	500.0	488.6	81.4	79.8	49.808	SF
Nolte 13D-13 - DD - Plan #3	300.0	300.0	49.0	48.1	51.404	CC, ES
Nolte 13D-13 - DD - Plan #3	500.0	494.3	60.9	59.2	36.994	SF
Nolte 14A-13 - DD - Plan #3	400.0	400.0	41.2	39.9	31.640	CC, ES
Nolte 14A-13 - DD - Plan #3	500.0	497.9	45.5	43.9	27.608	SF
Nolte 14B-13 - DD - Plan #3	400.0	400.0	33.5	32.2	25.724	CC, ES
Nolte 14B-13 - DD - Plan #3	600.0	598.8	42.9	40.9	21.480	SF
Nolte 14C-13 - DD - Plan #3	400.0	400.0	26.4	25.1	20.235	CC, ES
Nolte 14C-13 - DD - Plan #3	500.0	500.0	28.6	27.0	17.342	SF
Nolte 14D-13 - DD - Plan #3	400.0	400.0	18.9	17.6	14.482	CC, ES
Nolte 14D-13 - DD - Plan #3	500.0	499.3	22.7	21.1	13.743	SF
Nolte 43A-14 - DD - Plan #3	300.0	300.0	40.0	39.0	41.901	CC, ES
Nolte 43A-14 - DD - Plan #3	500.0	496.0	49.8	48.1	29.969	SF
Nolte 43B-14 - DD - Plan #3	333.7	333.7	32.0	30.9	29.841	CC, ES
Nolte 43B-14 - DD - Plan #3	500.0	497.8	38.0	36.4	22.943	SF
Nolte 43C-14 - DD - Plan #3	400.0	400.0	24.0	22.7	18.412	CC, ES
Nolte 43C-14 - DD - Plan #3	500.0	499.0	27.3	25.7	16.509	SF
Nolte 44A-14 - DD - Plan #3	400.0	400.0	16.0	14.7	12.274	CC, ES
Nolte 44A-14 - DD - Plan #3	500.0	499.8	17.9	16.3	10.828	SF
Nolte 44B-14 - DD - Plan #3	400.0	400.0	8.0	6.7	6.135	CC, ES
Nolte 44B-14 - DD - Plan #3	500.0	500.0	9.8	8.2	5.934	SF
Nolte SWD 1-14 - DD - Plan #3	535.1	535.0	6.2	4.4	3.486	CC, ES, SF

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

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 44C-14
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.8ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.8ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 44C-14	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 #3	Offset TVD Reference:	Offset Datum

Offset Design S14-T7S-R96W - Nolte 11A-24 - DD - Plan #3													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	78.93	2.5	12.6	12.8					
100.0	100.0	100.0	100.0	0.1	0.1	78.93	2.5	12.6	12.8	12.6	0.26	50.027		
200.0	200.0	200.0	200.0	0.3	0.3	78.93	2.5	12.6	12.8	12.2	0.61	21.167		
300.0	300.0	300.0	300.0	0.5	0.5	78.93	2.5	12.6	12.8	11.9	0.95	13.424 CC, ES		
400.0	400.0	399.5	399.5	0.7	0.7	87.32	0.7	14.5	14.5	13.2	1.31	11.081 SF		
500.0	500.0	498.3	497.9	0.8	0.9	-159.46	-4.6	20.0	23.1	21.4	1.66	13.892		
600.0	599.7	595.2	594.0	1.0	1.1	-143.51	-13.2	29.1	41.1	39.1	2.02	20.302		
700.0	699.1	690.2	687.5	1.3	1.5	-126.50	-24.9	41.4	64.2	61.7	2.43	26.436		
800.0	798.4	783.1	777.9	1.5	1.9	-125.96	-39.3	56.7	91.3	88.4	2.85	31.972		
900.0	897.7	873.5	864.9	1.7	2.3	-124.71	-56.3	74.6	122.5	119.2	3.30	37.163		
1,000.0	997.0	961.2	948.0	2.0	2.8	-123.30	-75.5	94.8	157.8	154.1	3.75	42.124		
1,100.0	1,096.3	1,045.8	1,027.0	2.3	3.4	-121.93	-96.4	117.0	197.0	192.8	4.20	46.936		
1,200.0	1,195.6	1,127.4	1,101.7	2.5	4.0	-120.67	-118.9	140.7	240.0	235.3	4.65	51.650		
1,300.0	1,294.9	1,200.0	1,167.1	2.8	4.6	-119.61	-140.7	163.7	286.6	281.5	5.07	56.483		
1,400.0	1,394.2	1,280.6	1,238.1	3.0	5.3	-118.51	-166.9	191.4	336.5	331.0	5.53	60.826		
1,500.0	1,493.5	1,352.2	1,299.8	3.3	6.1	-117.61	-191.9	217.7	389.6	383.7	5.97	65.298		
1,600.0	1,592.8	1,421.7	1,358.3	3.6	6.8	-116.79	-217.6	244.9	445.7	439.4	6.39	69.751		
1,700.0	1,692.1	1,503.4	1,426.5	3.8	7.6	-115.97	-248.6	277.6	503.1	496.3	6.84	73.512		
1,800.0	1,791.4	1,585.1	1,494.6	4.1	8.4	-115.32	-279.6	310.3	560.6	553.3	7.30	76.813		
1,900.0	1,890.7	1,666.8	1,562.8	4.4	9.3	-114.79	-310.6	343.1	618.1	610.3	7.75	79.740		
2,000.0	1,990.0	1,748.5	1,630.9	4.6	10.1	-114.35	-341.5	375.8	675.6	667.4	8.20	82.353		
2,100.0	2,089.3	1,830.2	1,699.1	4.9	11.0	-113.98	-372.5	408.5	733.1	724.5	8.66	84.698		
2,200.0	2,188.6	1,911.9	1,767.3	5.2	11.8	-113.67	-403.5	441.2	790.7	781.6	9.11	86.813		
2,300.0	2,287.9	1,993.6	1,835.4	5.5	12.7	-113.39	-434.5	473.9	848.2	838.7	9.56	88.730		
2,400.0	2,387.2	2,075.3	1,903.6	5.7	13.5	-113.16	-465.5	506.6	905.8	895.8	10.01	90.473		
2,500.0	2,486.5	2,157.0	1,971.7	6.0	14.4	-112.95	-496.5	539.3	963.4	952.9	10.46	92.068		
2,600.0	2,585.8	2,238.7	2,039.9	6.3	15.2	-112.76	-527.4	572.0	1,021.0	1,010.1	10.92	93.533		
2,700.0	2,685.1	2,320.5	2,108.1	6.5	16.1	-112.59	-558.4	604.8	1,078.6	1,067.2	11.37	94.882		
2,800.0	2,784.4	2,402.2	2,176.2	6.8	17.0	-112.44	-589.4	637.5	1,136.2	1,124.4	11.82	96.129		
2,900.0	2,883.7	2,483.9	2,244.4	7.1	17.8	-112.31	-620.4	670.2	1,193.8	1,181.5	12.27	97.283		
3,000.0	2,983.0	2,565.6	2,312.5	7.3	18.7	-112.18	-651.4	702.9	1,251.4	1,238.7	12.72	98.356		
3,100.0	3,082.3	2,647.3	2,380.7	7.6	19.5	-112.07	-682.4	735.6	1,309.0	1,295.9	13.18	99.356		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 44C-14
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.8ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.8ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 44C-14	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 #3	Offset TVD Reference:	Offset Datum

Offset Design S14-T7S-R96W - Nolte 11B-24 - DD - Plan #3													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	117.57	-4.6	8.9	10.0					
100.0	100.0	100.0	100.0	0.1	0.1	117.57	-4.6	8.9	10.0	9.7	0.26	39.055		
200.0	200.0	200.0	200.0	0.3	0.3	117.57	-4.6	8.9	10.0	9.4	0.61	16.531 CC, ES		
300.0	300.0	299.4	299.4	0.5	0.5	122.29	-6.6	10.5	12.4	11.5	0.96	12.935 SF		
400.0	400.0	398.3	398.0	0.7	0.7	129.37	-12.6	15.4	20.0	18.6	1.35	14.746		
500.0	500.0	495.9	494.7	0.8	1.0	-129.36	-22.4	23.3	34.3	32.7	1.65	20.766		
600.0	599.7	591.2	588.5	1.0	1.3	-121.69	-35.6	34.1	56.6	54.5	2.02	28.002		
700.0	699.1	684.4	679.2	1.3	1.7	-108.18	-52.0	47.5	82.6	80.1	2.43	33.953		
800.0	798.4	775.3	766.7	1.5	2.2	-109.86	-71.3	63.2	112.6	109.7	2.87	39.244		
900.0	897.7	863.6	850.3	1.7	2.7	-110.26	-93.1	80.9	146.8	143.5	3.32	44.270		
1,000.0	997.0	949.0	929.9	2.0	3.3	-110.07	-117.1	100.4	185.1	181.3	3.77	49.111		
1,100.0	1,096.3	1,031.3	1,005.3	2.3	4.0	-109.63	-142.7	121.3	227.1	222.9	4.22	53.827		
1,200.0	1,195.6	1,110.3	1,076.3	2.5	4.6	-109.08	-169.7	143.3	272.9	268.2	4.67	58.460		
1,300.0	1,294.9	1,186.1	1,142.9	2.8	5.3	-108.50	-197.7	166.1	322.0	316.9	5.11	62.988		
1,400.0	1,394.2	1,258.6	1,205.2	3.0	6.0	-107.93	-226.4	189.5	374.3	368.8	5.55	67.436		
1,500.0	1,493.5	1,327.8	1,263.4	3.3	6.7	-107.39	-255.4	213.1	429.7	423.7	5.98	71.851		
1,600.0	1,592.8	1,400.0	1,322.6	3.6	7.5	-106.83	-287.4	239.2	488.0	481.6	6.42	76.056		
1,700.0	1,692.1	1,456.6	1,367.9	3.8	8.2	-106.40	-313.7	260.6	548.8	542.0	6.82	80.491		
1,800.0	1,791.4	1,516.3	1,414.5	4.1	8.9	-105.96	-342.6	284.2	612.1	604.9	7.22	84.759		
1,900.0	1,890.7	1,583.3	1,465.8	4.4	9.7	-105.49	-376.1	311.5	677.4	669.8	7.64	88.644		
2,000.0	1,990.0	1,658.7	1,523.3	4.6	10.6	-105.05	-413.9	342.2	743.0	734.9	8.08	91.936		
2,100.0	2,089.3	1,734.1	1,580.8	4.9	11.5	-104.68	-451.7	373.0	808.6	800.1	8.52	94.903		
2,200.0	2,188.6	1,809.5	1,638.3	5.2	12.4	-104.37	-489.5	403.8	874.2	865.2	8.96	97.585		
2,300.0	2,287.9	1,884.9	1,695.8	5.5	13.4	-104.09	-527.3	434.6	939.8	930.4	9.40	100.014		
2,400.0	2,387.2	1,960.3	1,753.3	5.7	14.3	-103.86	-565.2	465.4	1,005.4	995.6	9.84	102.229		
2,500.0	2,486.5	2,035.7	1,810.8	6.0	15.2	-103.65	-603.0	496.2	1,071.1	1,060.8	10.27	104.258		
2,600.0	2,585.8	2,111.1	1,868.3	6.3	16.1	-103.47	-640.8	527.0	1,136.7	1,126.0	10.71	106.124		
2,700.0	2,685.1	2,186.4	1,925.8	6.5	17.0	-103.31	-678.6	557.8	1,202.4	1,191.2	11.15	107.843		
2,800.0	2,784.4	2,261.8	1,983.3	6.8	18.0	-103.16	-716.4	588.6	1,268.0	1,256.5	11.59	109.432		
2,900.0	2,883.7	2,337.2	2,040.8	7.1	18.9	-103.03	-754.2	619.4	1,333.7	1,321.7	12.03	110.907		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 44C-14
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.8ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.8ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 44C-14	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 #3	Offset TVD Reference:	Offset Datum

Offset Design S14-T7S-R96W - Nolte 11C-24 - DD - Plan #3													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	156.19	-11.7	5.2	16.1					
100.0	100.0	90.3	90.3	0.1	0.1	156.19	-11.7	5.2	12.8	12.5	0.26	49.386		
200.0	200.0	190.3	190.3	0.3	0.3	156.19	-11.7	5.2	12.8	12.2	0.61	21.147		
244.2	244.2	234.5	234.5	0.4	0.4	156.19	-11.7	5.2	12.8	12.0	0.76	16.854	CC, ES	
300.0	300.0	290.0	290.0	0.5	0.5	155.87	-12.1	5.4	13.2	12.3	0.95	13.851		
400.0	400.0	389.1	389.0	0.7	0.7	153.37	-15.9	8.0	17.9	16.5	1.32	13.565	SF	
500.0	500.0	487.3	486.7	0.8	0.9	-113.76	-24.0	13.4	28.6	27.0	1.65	17.321		
600.0	599.7	583.6	581.9	1.0	1.2	-111.86	-35.9	21.3	46.8	44.8	2.02	23.224		
700.0	699.1	678.2	674.6	1.3	1.5	-101.33	-51.4	31.7	68.8	66.4	2.42	28.403		
800.0	798.4	770.8	764.3	1.5	2.0	-104.38	-70.4	44.4	95.1	92.3	2.86	33.273		
900.0	897.7	861.0	850.6	1.7	2.5	-105.40	-92.3	59.0	125.9	122.5	3.31	38.028		
1,000.0	997.0	948.5	933.0	2.0	3.0	-105.48	-116.7	75.4	160.8	157.0	3.77	42.662		
1,100.0	1,096.3	1,033.1	1,011.4	2.3	3.6	-105.13	-143.3	93.2	199.6	195.4	4.23	47.207		
1,200.0	1,195.6	1,114.6	1,085.4	2.5	4.2	-104.60	-171.7	112.1	242.2	237.6	4.69	51.693		
1,300.0	1,294.9	1,193.0	1,155.1	2.8	4.9	-103.99	-201.3	132.0	288.4	283.3	5.14	56.117		
1,400.0	1,394.2	1,268.0	1,220.5	3.0	5.6	-103.38	-232.0	152.4	338.0	332.4	5.59	60.463		
1,500.0	1,493.5	1,339.8	1,281.6	3.3	6.3	-102.78	-263.2	173.4	390.8	384.8	6.03	64.789		
1,600.0	1,592.8	1,400.0	1,331.8	3.6	6.9	-102.28	-290.9	191.9	446.7	440.2	6.44	69.343		
1,700.0	1,692.1	1,473.6	1,391.6	3.8	7.8	-101.68	-326.5	215.7	505.1	498.2	6.89	73.323		
1,800.0	1,791.4	1,535.8	1,440.8	4.1	8.5	-101.20	-358.1	236.8	566.3	559.0	7.31	77.515		
1,900.0	1,890.7	1,600.0	1,490.4	4.4	9.2	-100.71	-392.1	259.5	629.9	622.2	7.72	81.560		
2,000.0	1,990.0	1,651.1	1,528.8	4.6	9.9	-100.33	-420.1	278.3	695.8	687.7	8.11	85.752		
2,100.0	2,089.3	1,700.0	1,564.7	4.9	10.5	-99.99	-447.7	296.7	763.7	755.2	8.49	89.929		
2,200.0	2,188.6	1,755.2	1,604.2	5.2	11.3	-99.60	-479.8	318.2	833.6	824.7	8.89	93.767		
2,300.0	2,287.9	1,800.0	1,635.4	5.5	11.9	-99.31	-506.5	336.0	905.3	896.1	9.26	97.790		
2,400.0	2,387.2	1,849.2	1,668.8	5.7	12.6	-98.99	-536.5	356.1	978.7	969.1	9.64	101.534		
2,500.0	2,486.5	1,900.0	1,702.3	6.0	13.3	-98.67	-568.3	377.3	1,053.7	1,043.6	10.02	105.175		
2,600.0	2,585.8	1,934.0	1,724.1	6.3	13.8	-98.46	-589.9	391.8	1,130.0	1,119.6	10.36	109.043		
2,700.0	2,685.1	1,973.3	1,748.8	6.5	14.4	-98.23	-615.4	408.8	1,207.7	1,197.0	10.72	112.697		
2,800.0	2,784.4	2,000.0	1,765.2	6.8	14.8	-98.07	-632.9	420.5	1,286.7	1,275.6	11.04	116.544		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 44C-14
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.8ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.8ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 44C-14	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 #3	Offset TVD Reference:	Offset Datum

Offset Design S14-T7S-R96W - Nolte 13A-13 - DD - Plan #3													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	27.53	49.6	25.9	56.0					
100.0	100.0	100.0	100.0	0.1	0.1	27.53	49.6	25.9	56.0	55.7	0.26	218.664		
200.0	200.0	200.0	200.0	0.3	0.3	27.53	49.6	25.9	56.0	55.4	0.61	92.520 CC, ES		
300.0	300.0	297.1	297.0	0.5	0.5	27.70	51.7	27.2	58.5	57.6	0.96	61.128		
400.0	400.0	393.7	393.3	0.7	0.7	28.13	58.0	31.0	66.1	64.8	1.34	49.204		
500.0	500.0	489.0	487.8	0.8	1.0	129.75	68.2	37.3	80.3	78.7	1.64	49.120 SF		
600.0	599.7	581.7	579.2	1.0	1.3	142.86	82.0	45.8	103.0	101.0	1.98	52.029		
700.0	699.1	671.0	666.3	1.3	1.7	161.16	98.9	56.2	134.6	132.3	2.31	58.240		
800.0	798.4	757.0	749.1	1.5	2.1	161.85	118.3	68.1	171.8	169.2	2.64	64.984		
900.0	897.7	839.7	827.9	1.7	2.6	162.20	140.1	81.5	213.1	210.1	2.97	71.723		
1,000.0	997.0	919.3	902.4	2.0	3.1	162.37	163.6	96.0	258.1	254.8	3.29	78.434		
1,100.0	1,096.3	1,000.0	976.8	2.3	3.7	162.43	190.3	112.4	306.8	303.2	3.61	84.921		
1,200.0	1,195.6	1,068.2	1,038.6	2.5	4.2	162.42	214.8	127.5	358.8	354.9	3.92	91.610		
1,300.0	1,294.9	1,137.6	1,100.4	2.8	4.8	162.39	241.8	144.1	413.9	409.7	4.22	98.081		
1,400.0	1,394.2	1,200.0	1,154.9	3.0	5.4	162.33	267.6	159.9	472.0	467.5	4.51	104.661		
1,500.0	1,493.5	1,266.7	1,212.1	3.3	6.0	162.25	296.8	177.9	532.8	528.0	4.81	110.764		
1,600.0	1,592.8	1,326.5	1,262.3	3.6	6.7	162.18	324.5	195.0	596.0	590.9	5.10	116.963		
1,700.0	1,692.1	1,383.3	1,309.1	3.8	7.3	162.10	352.0	211.9	661.7	656.3	5.38	123.065		
1,800.0	1,791.4	1,437.3	1,352.5	4.1	7.9	162.03	379.2	228.6	729.4	723.8	5.65	129.040		
1,900.0	1,890.7	1,500.0	1,401.9	4.4	8.6	161.93	412.2	248.9	799.3	793.3	5.94	134.542		
2,000.0	1,990.0	1,537.1	1,430.5	4.6	9.0	161.88	432.3	261.3	870.8	864.6	6.19	140.694		
2,100.0	2,089.3	1,583.3	1,465.5	4.9	9.6	161.81	458.0	277.1	944.1	937.6	6.45	146.367		
2,200.0	2,188.6	1,627.1	1,497.9	5.2	10.2	161.75	483.0	292.5	1,019.0	1,012.3	6.71	151.931		
2,300.0	2,287.9	1,681.4	1,537.5	5.5	10.8	161.67	514.7	312.0	1,095.1	1,088.1	6.98	156.888		
2,400.0	2,387.2	1,746.0	1,584.4	5.7	11.7	161.58	552.6	335.2	1,171.4	1,164.1	7.27	161.119		
2,500.0	2,486.5	1,810.6	1,631.4	6.0	12.5	161.51	590.4	358.5	1,247.7	1,240.1	7.56	165.063		
2,600.0	2,585.8	1,875.3	1,678.4	6.3	13.3	161.45	628.2	381.8	1,324.0	1,316.2	7.85	168.703		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 44C-14
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.8ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.8ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 44C-14	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 #3	Offset TVD Reference:	Offset Datum

Offset Design S14-T7S-R96W - Nolte 13B-13 - DD - Plan #3												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	27.52	42.6	22.2	48.0				
100.0	100.0	100.0	100.0	0.1	0.1	27.52	42.6	22.2	48.0	47.7	0.26	187.549	
200.0	200.0	200.0	200.0	0.3	0.3	27.52	42.6	22.2	48.0	47.4	0.60	79.324	
233.3	233.3	233.3	233.3	0.4	0.4	27.52	42.6	22.2	48.0	47.3	0.72	66.524	CC, ES
300.0	300.0	298.8	298.8	0.5	0.5	27.65	43.0	22.6	48.6	47.7	0.95	51.043	
400.0	400.0	396.1	396.0	0.7	0.7	28.59	47.0	25.6	53.6	52.3	1.31	40.802	
500.0	500.0	492.4	491.7	0.8	0.9	131.45	54.7	31.6	65.4	63.7	1.64	39.822	SF
600.0	599.7	586.3	584.6	1.0	1.2	145.91	65.9	40.3	85.9	83.9	1.99	43.242	
700.0	699.1	677.0	673.4	1.3	1.5	164.83	80.1	51.3	115.6	113.2	2.32	49.878	
800.0	798.4	764.4	758.2	1.5	1.9	165.81	97.0	64.4	150.9	148.2	2.65	57.008	
900.0	897.7	848.8	839.0	1.7	2.4	166.36	116.1	79.2	190.4	187.4	2.97	64.101	
1,000.0	997.0	929.8	915.6	2.0	2.9	166.67	137.2	95.5	233.8	230.6	3.29	71.142	
1,100.0	1,096.3	1,007.6	987.8	2.3	3.4	166.84	159.7	113.0	281.0	277.4	3.60	78.127	
1,200.0	1,195.6	1,081.9	1,055.8	2.5	4.0	166.93	183.5	131.4	331.6	327.7	3.90	84.977	
1,300.0	1,294.9	1,152.9	1,119.6	2.8	4.6	166.97	208.1	150.5	385.5	381.3	4.20	91.731	
1,400.0	1,394.2	1,220.5	1,179.2	3.0	5.2	166.98	233.3	170.0	442.4	437.9	4.49	98.427	
1,500.0	1,493.5	1,284.8	1,234.9	3.3	5.8	166.97	258.8	189.8	502.1	497.3	4.78	105.011	
1,600.0	1,592.8	1,346.0	1,286.8	3.6	6.4	166.95	284.4	209.6	564.4	559.3	5.06	111.463	
1,700.0	1,692.1	1,400.0	1,331.8	3.8	7.0	166.92	308.0	228.0	629.1	623.8	5.33	118.023	
1,800.0	1,791.4	1,466.7	1,386.1	4.1	7.7	166.88	338.7	251.7	696.1	690.4	5.62	123.875	
1,900.0	1,890.7	1,529.7	1,436.7	4.4	8.4	166.84	368.2	274.7	764.3	758.4	5.90	129.491	
2,000.0	1,990.0	1,602.8	1,495.4	4.6	9.2	166.80	402.6	301.3	832.5	826.3	6.20	134.307	
2,100.0	2,089.3	1,675.8	1,554.2	4.9	10.0	166.77	436.9	327.9	900.8	894.3	6.50	138.654	
2,200.0	2,188.6	1,748.9	1,612.9	5.2	10.8	166.74	471.3	354.5	969.1	962.3	6.79	142.637	
2,300.0	2,287.9	1,822.0	1,671.6	5.5	11.6	166.72	505.7	381.2	1,037.3	1,030.2	7.09	146.299	
2,400.0	2,387.2	1,895.0	1,730.4	5.7	12.4	166.69	540.0	407.8	1,105.6	1,098.2	7.39	149.671	
2,500.0	2,486.5	1,968.1	1,789.1	6.0	13.2	166.68	574.4	434.4	1,173.9	1,166.2	7.68	152.773	
2,600.0	2,585.8	2,041.2	1,847.8	6.3	14.0	166.66	608.7	461.1	1,242.2	1,234.2	7.98	155.655	
2,700.0	2,685.1	2,114.2	1,906.6	6.5	14.9	166.64	643.1	487.7	1,310.4	1,302.1	8.28	158.337	

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 44C-14
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.8ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.8ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 44C-14	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 #3	Offset TVD Reference:	Offset Datum

Offset Design S14-T7S-R96W - Nolte 13C-13 - DD - Plan #3													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	37.66	45.0	34.7	56.9					
100.0	100.0	99.8	99.8	0.1	0.1	37.66	45.0	34.7	56.9	56.6	0.26	222.790		
200.0	200.0	199.8	199.8	0.3	0.3	37.66	45.0	34.7	56.9	56.3	0.60	94.115 CC, ES		
300.0	300.0	296.9	296.8	0.5	0.5	38.00	46.7	36.5	59.4	58.4	0.96	62.073		
400.0	400.0	393.4	393.1	0.7	0.7	38.88	51.8	41.8	66.9	65.6	1.34	49.808		
500.0	500.0	488.6	487.5	0.8	1.0	140.84	60.1	50.4	81.4	79.8	1.63	49.808 SF		
600.0	599.7	581.2	578.6	1.0	1.3	153.95	71.3	62.0	105.0	103.0	1.97	53.227		
700.0	699.1	670.2	665.4	1.3	1.7	172.09	85.0	76.2	137.2	134.9	2.29	59.792		
800.0	798.4	755.8	748.0	1.5	2.1	172.62	100.8	92.5	174.9	172.2	2.62	66.822		
900.0	897.7	838.3	826.4	1.7	2.6	172.96	118.4	110.8	216.5	213.6	2.93	73.865		
1,000.0	997.0	917.4	900.6	2.0	3.1	173.17	137.5	130.6	262.0	258.8	3.24	80.899		
1,100.0	1,096.3	1,000.0	976.8	2.3	3.7	173.31	159.7	153.6	311.2	307.7	3.55	87.639		
1,200.0	1,195.6	1,065.6	1,036.2	2.5	4.3	173.39	178.9	173.5	363.5	359.7	3.84	94.736		
1,300.0	1,294.9	1,134.6	1,097.7	2.8	4.8	173.45	200.7	196.0	419.1	414.9	4.12	101.595		
1,400.0	1,394.2	1,212.4	1,166.1	3.0	5.5	173.49	226.5	222.7	476.7	472.3	4.43	107.679		
1,500.0	1,493.5	1,294.0	1,237.8	3.3	6.2	173.53	253.6	250.8	534.5	529.8	4.74	112.878		
1,600.0	1,592.8	1,375.7	1,309.5	3.6	7.0	173.56	280.7	278.9	592.3	587.2	5.04	117.432		
1,700.0	1,692.1	1,457.3	1,381.2	3.8	7.7	173.59	307.7	307.0	650.0	644.7	5.35	121.476		
1,800.0	1,791.4	1,538.9	1,452.9	4.1	8.4	173.61	334.8	335.1	707.8	702.1	5.66	125.089		
1,900.0	1,890.7	1,620.5	1,524.6	4.4	9.1	173.62	361.9	363.1	765.6	759.6	5.97	128.334		
2,000.0	1,990.0	1,702.2	1,596.3	4.6	9.9	173.64	389.0	391.2	823.3	817.0	6.27	131.265		
2,100.0	2,089.3	1,783.8	1,668.0	4.9	10.6	173.65	416.1	419.3	881.1	874.5	6.58	133.917		
2,200.0	2,188.6	1,865.4	1,739.7	5.2	11.3	173.66	443.2	447.4	938.8	932.0	6.89	136.336		
2,300.0	2,287.9	1,947.1	1,811.4	5.5	12.1	173.67	470.3	475.5	996.6	989.4	7.19	138.552		
2,400.0	2,387.2	2,028.7	1,883.1	5.7	12.8	173.68	497.4	503.5	1,054.4	1,046.9	7.50	140.590		
2,500.0	2,486.5	2,110.3	1,954.8	6.0	13.5	173.69	524.5	531.6	1,112.1	1,104.3	7.81	142.469		
2,600.0	2,585.8	2,192.0	2,026.5	6.3	14.3	173.70	551.6	559.7	1,169.9	1,161.8	8.11	144.206		
2,700.0	2,685.1	2,273.6	2,098.2	6.5	15.0	173.70	578.7	587.8	1,227.7	1,219.2	8.42	145.816		
2,800.0	2,784.4	2,355.2	2,169.9	6.8	15.7	173.71	605.8	615.9	1,285.4	1,276.7	8.73	147.315		
2,900.0	2,883.7	2,436.8	2,241.6	7.1	16.5	173.71	632.9	643.9	1,343.2	1,334.2	9.03	148.713		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 44C-14
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.8ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.8ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 44C-14	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 #3	Offset TVD Reference:	Offset Datum

Offset Design S14-T7S-R96W - Nolte 13D-13 - DD - Plan #3														Offset Site Error:	0.0 ft
Survey Program: 0-MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)							
0.0	0.0	0.0	0.0	0.0	0.0	39.30	37.9	31.0	49.0						
100.0	100.0	100.0	100.0	0.1	0.1	39.30	37.9	31.0	49.0	48.8	0.26	191.957			
200.0	200.0	200.0	200.0	0.3	0.3	39.30	37.9	31.0	49.0	48.4	0.60	81.092			
300.0	300.0	300.0	300.0	0.5	0.5	39.30	37.9	31.0	49.0	48.1	0.95	51.404 CC, ES			
400.0	400.0	397.5	397.5	0.7	0.7	40.17	39.3	33.1	51.4	50.1	1.30	39.440			
500.0	500.0	494.3	494.0	0.8	0.9	143.65	43.2	39.4	60.9	59.2	1.65	36.994 SF			
600.0	599.7	588.9	587.8	1.0	1.1	158.72	49.6	49.5	79.7	77.7	1.99	40.122			
700.0	699.1	680.4	677.9	1.3	1.4	177.80	58.1	62.9	107.5	105.1	2.31	46.441			
800.0	798.4	769.0	764.3	1.5	1.8	178.91	68.6	79.4	140.8	138.1	2.64	53.310			
900.0	897.7	854.5	846.7	1.7	2.2	179.70	80.7	98.6	178.3	175.4	2.96	60.239			
1,000.0	997.0	936.8	925.1	2.0	2.7	-179.71	94.2	119.9	220.0	216.7	3.27	67.191			
1,100.0	1,096.3	1,015.9	999.2	2.3	3.2	-179.27	108.9	143.1	265.4	261.9	3.58	74.145			
1,200.0	1,195.6	1,091.6	1,069.1	2.5	3.8	-178.92	124.4	167.7	314.5	310.6	3.88	81.048			
1,300.0	1,294.9	1,170.7	1,141.1	2.8	4.4	-178.62	142.1	195.5	366.4	362.2	4.19	87.554			
1,400.0	1,394.2	1,255.9	1,218.3	3.0	5.0	-178.37	161.2	225.7	418.8	414.3	4.50	93.068			
1,500.0	1,493.5	1,341.0	1,295.6	3.3	5.7	-178.18	180.3	256.0	471.2	466.4	4.81	97.884			
1,600.0	1,592.8	1,426.2	1,372.9	3.6	6.4	-178.03	199.5	286.2	523.6	518.5	5.13	102.115			
1,700.0	1,692.1	1,511.4	1,450.2	3.8	7.0	-177.90	218.6	316.4	576.0	570.6	5.44	105.862			
1,800.0	1,791.4	1,596.5	1,527.5	4.1	7.7	-177.80	237.8	346.7	628.4	622.6	5.75	109.200			
1,900.0	1,890.7	1,681.7	1,604.8	4.4	8.4	-177.71	256.9	376.9	680.8	674.7	6.07	112.189			
2,000.0	1,990.0	1,766.9	1,682.1	4.6	9.0	-177.63	276.1	407.1	733.2	726.8	6.38	114.889			
2,100.0	2,089.3	1,852.1	1,759.3	4.9	9.7	-177.57	295.2	437.4	785.6	778.9	6.70	117.339			
2,200.0	2,188.6	1,937.2	1,836.6	5.2	10.4	-177.51	314.4	467.6	838.0	831.0	7.01	119.572			
2,300.0	2,287.9	2,022.4	1,913.9	5.5	11.1	-177.46	333.5	497.8	890.4	883.1	7.32	121.616			
2,400.0	2,387.2	2,107.6	1,991.2	5.7	11.7	-177.42	352.6	528.1	942.8	935.2	7.63	123.493			
2,500.0	2,486.5	2,192.7	2,068.5	6.0	12.4	-177.37	371.8	558.3	995.2	987.3	7.95	125.222			
2,600.0	2,585.8	2,277.9	2,145.8	6.3	13.1	-177.34	390.9	588.5	1,047.6	1,039.3	8.26	126.820			
2,700.0	2,685.1	2,363.1	2,223.0	6.5	13.8	-177.31	410.1	618.8	1,100.0	1,091.4	8.57	128.302			
2,800.0	2,784.4	2,448.2	2,300.3	6.8	14.4	-177.28	429.2	649.0	1,152.4	1,143.5	8.89	129.681			
2,900.0	2,883.7	2,533.4	2,377.6	7.1	15.1	-177.25	448.4	679.2	1,204.8	1,195.6	9.20	130.967			
3,000.0	2,983.0	2,618.6	2,454.9	7.3	15.8	-177.22	467.5	709.5	1,257.2	1,247.7	9.51	132.169			
3,100.0	3,082.3	2,703.7	2,532.2	7.6	16.5	-177.20	486.7	739.7	1,309.6	1,299.8	9.83	133.294			

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 44C-14
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.8ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.8ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 44C-14	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 #3	Offset TVD Reference:	Offset Datum

Offset Design S14-T7S-R96W - Nolte 14A-13 - DD - Plan #3													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	41.56	30.8	27.3	41.2					
100.0	100.0	100.0	100.0	0.1	0.1	41.56	30.8	27.3	41.2	41.0	0.26	161.411		
200.0	200.0	200.0	200.0	0.3	0.3	41.56	30.8	27.3	41.2	40.6	0.60	68.188		
300.0	300.0	300.0	300.0	0.5	0.5	41.56	30.8	27.3	41.2	40.3	0.95	43.224		
400.0	400.0	400.0	400.0	0.7	0.7	41.56	30.8	27.3	41.2	39.9	1.30	31.640 CC, ES		
500.0	500.0	497.9	497.9	0.8	0.8	145.15	31.6	29.7	45.5	43.9	1.65	27.608 SF		
600.0	599.7	594.3	594.0	1.0	1.0	162.45	33.7	36.8	59.2	57.2	2.00	29.676		
700.0	699.1	688.3	687.2	1.3	1.3	-177.05	37.2	48.1	81.9	79.5	2.33	35.116		
800.0	798.4	779.8	777.3	1.5	1.6	-174.87	41.8	63.3	110.1	107.5	2.67	41.270		
900.0	897.7	868.5	863.8	1.7	1.9	-173.18	47.6	82.0	142.9	139.9	3.00	47.581		
1,000.0	997.0	954.2	946.5	2.0	2.3	-171.85	54.2	103.7	179.9	176.6	3.33	53.977		
1,100.0	1,096.3	1,036.8	1,025.1	2.3	2.8	-170.79	61.6	127.9	221.0	217.3	3.66	60.409		
1,200.0	1,195.6	1,116.1	1,099.5	2.5	3.3	-169.92	69.7	154.2	265.9	261.9	3.98	66.864		
1,300.0	1,294.9	1,197.8	1,174.9	2.8	3.9	-169.18	78.8	184.0	314.0	309.7	4.30	73.039		
1,400.0	1,394.2	1,285.1	1,255.5	3.0	4.5	-168.57	88.6	216.2	362.7	358.1	4.63	78.291		
1,500.0	1,493.5	1,372.4	1,336.0	3.3	5.1	-168.11	98.5	248.5	411.4	406.4	4.97	82.853		
1,600.0	1,592.8	1,459.7	1,416.5	3.6	5.8	-167.74	108.4	280.7	460.1	454.8	5.30	86.848		
1,700.0	1,692.1	1,547.0	1,497.0	3.8	6.4	-167.45	118.2	313.0	508.8	503.2	5.63	90.376		
1,800.0	1,791.4	1,634.3	1,577.6	4.1	7.0	-167.21	128.1	345.2	557.5	551.6	5.96	93.513		
1,900.0	1,890.7	1,721.6	1,658.1	4.4	7.7	-167.00	138.0	377.5	606.3	600.0	6.29	96.321		
2,000.0	1,990.0	1,808.9	1,738.6	4.6	8.3	-166.83	147.9	409.7	655.0	648.4	6.63	98.849		
2,100.0	2,089.3	1,896.2	1,819.1	4.9	8.9	-166.68	157.7	441.9	703.8	696.8	6.96	101.135		
2,200.0	2,188.6	1,983.5	1,899.7	5.2	9.6	-166.55	167.6	474.2	752.5	745.2	7.29	103.213		
2,300.0	2,287.9	2,070.8	1,980.2	5.5	10.2	-166.43	177.5	506.4	801.3	793.6	7.62	105.111		
2,400.0	2,387.2	2,158.1	2,060.7	5.7	10.9	-166.33	187.3	538.7	850.0	842.1	7.96	106.851		
2,500.0	2,486.5	2,245.4	2,141.2	6.0	11.5	-166.24	197.2	570.9	898.8	890.5	8.29	108.452		
2,600.0	2,585.8	2,332.7	2,221.8	6.3	12.1	-166.16	207.1	603.2	947.5	938.9	8.62	109.931		
2,700.0	2,685.1	2,420.0	2,302.3	6.5	12.8	-166.09	216.9	635.4	996.3	987.3	8.95	111.300		
2,800.0	2,784.4	2,507.3	2,382.8	6.8	13.4	-166.02	226.8	667.7	1,045.0	1,035.8	9.28	112.572		
2,900.0	2,883.7	2,594.6	2,463.3	7.1	14.1	-165.96	236.7	699.9	1,093.8	1,084.2	9.62	113.755		
3,000.0	2,983.0	2,681.9	2,543.9	7.3	14.7	-165.90	246.5	732.1	1,142.6	1,132.6	9.95	114.860		
3,100.0	3,082.3	2,769.2	2,624.4	7.6	15.3	-165.85	256.4	764.4	1,191.3	1,181.1	10.28	115.893		
3,200.0	3,181.6	2,856.5	2,704.9	7.9	16.0	-165.81	266.3	796.6	1,240.1	1,229.5	10.61	116.862		
3,300.0	3,280.9	2,943.8	2,785.4	8.1	16.6	-165.76	276.1	828.9	1,288.9	1,277.9	10.94	117.773		
3,400.0	3,380.2	3,031.1	2,866.0	8.4	17.3	-165.72	286.0	861.1	1,337.6	1,326.3	11.28	118.630		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 44C-14
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.8ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.8ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 44C-14	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 #3	Offset TVD Reference:	Offset Datum

Offset Design S14-T7S-R96W - Nolte 14B-13 - DD - Plan #3													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		Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
							+N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	44.87	23.7	23.6	33.5					
100.0	100.0	100.0	100.0	0.1	0.1	44.87	23.7	23.6	33.5	33.3	0.26	131.157		
200.0	200.0	200.0	200.0	0.3	0.3	44.87	23.7	23.6	33.5	32.9	0.60	55.429		
300.0	300.0	300.0	300.0	0.5	0.5	44.87	23.7	23.6	33.5	32.6	0.95	35.140		
400.0	400.0	400.0	400.0	0.7	0.7	44.87	23.7	23.6	33.5	32.2	1.30	25.724 CC, ES		
500.0	500.0	500.0	500.0	0.8	0.8	147.25	23.7	23.6	35.7	34.0	1.65	21.598		
600.0	599.7	598.8	598.8	1.0	1.0	163.02	23.7	24.3	42.9	40.9	2.00	21.480 SF		
700.0	699.1	695.5	695.4	1.3	1.2	-176.29	23.7	29.2	57.9	55.5	2.34	24.743		
800.0	798.4	790.5	789.9	1.5	1.4	-172.82	23.5	38.8	78.1	75.4	2.69	29.072		
900.0	897.7	883.4	881.8	1.7	1.6	-169.53	23.3	52.7	102.7	99.7	3.04	33.804		
1,000.0	997.0	973.9	970.5	2.0	1.9	-166.69	23.0	70.5	131.8	128.4	3.40	38.799		
1,100.0	1,096.3	1,061.7	1,055.6	2.3	2.3	-164.30	22.6	91.8	165.1	161.4	3.76	43.962		
1,200.0	1,195.6	1,146.6	1,136.9	2.5	2.7	-162.32	22.2	116.0	202.6	198.5	4.12	49.231		
1,300.0	1,294.9	1,228.3	1,214.1	2.8	3.2	-160.66	21.8	142.8	244.1	239.7	4.47	54.563		
1,400.0	1,394.2	1,306.7	1,287.1	3.0	3.8	-159.28	21.3	171.6	289.4	284.6	4.83	59.932		
1,500.0	1,493.5	1,389.4	1,362.9	3.3	4.3	-158.04	20.7	204.5	337.6	332.4	5.19	65.029		
1,600.0	1,592.8	1,476.6	1,442.8	3.6	5.0	-157.04	20.2	239.5	386.2	380.7	5.56	69.423		
1,700.0	1,692.1	1,563.8	1,522.7	3.8	5.6	-156.26	19.6	274.4	434.9	429.0	5.93	73.289		
1,800.0	1,791.4	1,651.0	1,602.6	4.1	6.3	-155.64	19.0	309.4	483.7	477.3	6.30	76.715		
1,900.0	1,890.7	1,738.2	1,682.5	4.4	6.9	-155.13	18.4	344.4	532.4	525.7	6.67	79.771		
2,000.0	1,990.0	1,825.5	1,762.4	4.6	7.6	-154.70	17.8	379.4	581.2	574.2	7.04	82.514		
2,100.0	2,089.3	1,912.7	1,842.3	4.9	8.3	-154.35	17.3	414.3	630.0	622.6	7.41	84.989		
2,200.0	2,188.6	1,999.9	1,922.2	5.2	8.9	-154.04	16.7	449.3	678.9	671.1	7.78	87.233		
2,300.0	2,287.9	2,087.1	2,002.0	5.5	9.6	-153.77	16.1	484.3	727.7	719.6	8.15	89.278		
2,400.0	2,387.2	2,174.3	2,081.9	5.7	10.3	-153.54	15.5	519.3	776.6	768.1	8.52	91.148		
2,500.0	2,486.5	2,261.5	2,161.8	6.0	10.9	-153.34	14.9	554.2	825.4	816.6	8.89	92.864		
2,600.0	2,585.8	2,348.7	2,241.7	6.3	11.6	-153.16	14.4	589.2	874.3	865.1	9.26	94.446		
2,700.0	2,685.1	2,435.9	2,321.6	6.5	12.3	-152.99	13.8	624.2	923.2	913.6	9.63	95.908		
2,800.0	2,784.4	2,523.2	2,401.5	6.8	12.9	-152.85	13.2	659.1	972.1	962.1	9.99	97.264		
2,900.0	2,883.7	2,610.4	2,481.4	7.1	13.6	-152.71	12.6	694.1	1,021.0	1,010.6	10.36	98.523		
3,000.0	2,983.0	2,697.6	2,561.3	7.3	14.3	-152.59	12.0	729.1	1,069.9	1,059.1	10.73	99.698		
3,100.0	3,082.3	2,784.8	2,641.2	7.6	14.9	-152.48	11.5	764.1	1,118.8	1,107.7	11.10	100.794		
3,200.0	3,181.6	2,872.0	2,721.1	7.9	15.6	-152.38	10.9	799.0	1,167.7	1,156.2	11.47	101.822		
3,300.0	3,280.9	2,959.2	2,800.9	8.1	16.3	-152.29	10.3	834.0	1,216.6	1,204.7	11.84	102.785		
3,400.0	3,380.2	3,046.4	2,880.8	8.4	17.0	-152.21	9.7	869.0	1,265.5	1,253.3	12.20	103.691		
3,500.0	3,479.7	3,309.8	3,128.5	8.6	18.5	-152.55	8.2	958.1	1,307.0	1,294.0	12.99	100.583		
3,600.0	3,579.6	3,613.7	3,426.1	8.8	19.6	-152.69	7.2	1,017.5	1,330.2	1,316.5	13.76	96.665		
3,700.0	3,679.6	3,867.7	3,679.6	8.9	19.8	80.82	7.0	1,030.7	1,334.6	1,320.3	14.34	93.075		
3,800.0	3,779.6	3,967.7	3,779.6	9.0	19.9	80.82	7.0	1,030.7	1,334.6	1,319.9	14.66	91.044		
3,900.0	3,879.6	4,067.7	3,879.6	9.2	20.0	80.82	7.0	1,030.7	1,334.6	1,319.6	14.98	89.091		
4,000.0	3,979.6	4,167.7	3,979.6	9.3	20.0	80.82	7.0	1,030.7	1,334.6	1,319.3	15.30	87.214		
4,100.0	4,079.6	4,267.7	4,079.6	9.4	20.1	80.82	7.0	1,030.7	1,334.6	1,319.0	15.63	85.407		
4,200.0	4,179.6	4,367.7	4,179.6	9.6	20.2	80.82	7.0	1,030.7	1,334.6	1,318.7	15.95	83.669		
4,300.0	4,279.6	4,467.7	4,279.6	9.7	20.2	80.82	7.0	1,030.7	1,334.6	1,318.3	16.28	81.994		
4,400.0	4,379.6	4,567.7	4,379.6	9.8	20.3	80.82	7.0	1,030.7	1,334.6	1,318.0	16.60	80.381		
4,500.0	4,479.6	4,667.7	4,479.6	10.0	20.4	80.82	7.0	1,030.7	1,334.6	1,317.7	16.93	78.826		
4,600.0	4,579.6	4,767.7	4,579.6	10.1	20.4	80.82	7.0	1,030.7	1,334.6	1,317.3	17.26	77.326		
4,700.0	4,679.6	4,867.7	4,679.6	10.2	20.5	80.82	7.0	1,030.7	1,334.6	1,317.0	17.59	75.879		
4,800.0	4,779.6	4,967.7	4,779.6	10.4	20.6	80.82	7.0	1,030.7	1,334.6	1,316.7	17.92	74.482		
4,900.0	4,879.6	5,067.7	4,879.6	10.5	20.6	80.82	7.0	1,030.7	1,334.6	1,316.4	18.25	73.132		
5,000.0	4,979.6	5,167.7	4,979.6	10.7	20.7	80.82	7.0	1,030.7	1,334.6	1,316.0	18.58	71.828		
5,100.0	5,079.6	5,267.7	5,079.6	10.8	20.8	80.82	7.0	1,030.7	1,334.6	1,315.7	18.91	70.567		

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

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 44C-14
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.8ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.8ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 44C-14	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 #3	Offset TVD Reference:	Offset Datum

Offset Design													S14-T7S-R96W - Nolte 14B-13 - DD - Plan #3		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	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor						
5,200.0	5,179.6	5,367.7	5,179.6	10.9	20.9	80.82	7.0	1,030.7	1,334.6	1,315.4	19.25	69.348						
5,300.0	5,279.6	5,467.7	5,279.6	11.1	21.0	80.82	7.0	1,030.7	1,334.6	1,315.0	19.58	68.168						
5,400.0	5,379.6	5,567.7	5,379.6	11.2	21.0	80.82	7.0	1,030.7	1,334.6	1,314.7	19.91	67.025						
5,500.0	5,479.6	5,667.7	5,479.6	11.4	21.1	80.82	7.0	1,030.7	1,334.6	1,314.4	20.25	65.919						
5,600.0	5,579.6	5,767.7	5,579.6	11.5	21.2	80.82	7.0	1,030.7	1,334.6	1,314.0	20.58	64.847						
5,700.0	5,679.6	5,867.7	5,679.6	11.7	21.3	80.82	7.0	1,030.7	1,334.6	1,313.7	20.92	63.808						
5,800.0	5,779.6	5,967.7	5,779.6	11.8	21.4	80.82	7.0	1,030.7	1,334.6	1,313.4	21.25	62.800						
5,825.7	5,805.3	5,993.4	5,805.3	11.9	21.4	80.82	7.0	1,030.7	1,334.6	1,313.3	21.34	62.546						

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 44C-14
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.8ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.8ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 44C-14	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 #3	Offset TVD Reference:	Offset Datum

Offset Design S14-T7S-R96W - Nolte 14C-13 - DD - Plan #3													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	49.34	17.2	20.0	26.4					
100.0	100.0	100.0	100.0	0.1	0.1	49.34	17.2	20.0	26.4	26.1	0.26	103.115		
200.0	200.0	200.0	200.0	0.3	0.3	49.34	17.2	20.0	26.4	25.8	0.60	43.595		
300.0	300.0	300.0	300.0	0.5	0.5	49.34	17.2	20.0	26.4	25.4	0.95	27.641		
400.0	400.0	400.0	400.0	0.7	0.7	49.34	17.2	20.0	26.4	25.1	1.30	20.235 CC, ES		
500.0	500.0	500.0	500.0	0.8	0.8	151.98	17.2	20.0	28.6	27.0	1.65	17.342 SF		
600.0	599.7	598.4	598.4	1.0	1.0	170.42	16.4	22.4	37.3	35.3	2.00	18.685		
700.0	699.1	695.4	695.0	1.3	1.2	-167.18	13.9	29.4	53.5	51.1	2.35	22.785		
800.0	798.4	790.6	789.5	1.5	1.4	-162.63	10.0	40.9	74.4	71.7	2.72	27.413		
900.0	897.7	883.8	881.2	1.7	1.7	-158.50	4.6	56.3	99.6	96.5	3.10	32.131		
1,000.0	997.0	974.5	969.6	2.0	2.1	-154.97	-2.0	75.4	129.0	125.5	3.50	36.902		
1,100.0	1,096.3	1,062.5	1,054.4	2.3	2.5	-152.03	-9.7	97.7	162.6	158.7	3.90	41.704		
1,200.0	1,195.6	1,147.5	1,135.2	2.5	3.0	-149.58	-18.3	122.8	200.4	196.1	4.31	46.524		
1,300.0	1,294.9	1,229.5	1,211.8	2.8	3.5	-147.54	-27.7	150.1	242.0	237.3	4.71	51.353		
1,400.0	1,394.2	1,308.1	1,284.2	3.0	4.1	-145.83	-37.8	179.2	287.4	282.3	5.11	56.198		
1,500.0	1,493.5	1,390.8	1,359.1	3.3	4.7	-144.29	-49.2	212.2	335.8	330.2	5.53	60.763		
1,600.0	1,592.8	1,477.8	1,437.9	3.6	5.4	-143.05	-61.3	247.2	384.6	378.6	5.95	64.672		
1,700.0	1,692.1	1,564.8	1,516.7	3.8	6.1	-142.10	-73.3	282.2	433.4	427.1	6.36	68.101		
1,800.0	1,791.4	1,651.9	1,595.4	4.1	6.8	-141.33	-85.4	317.2	482.4	475.6	6.78	71.128		
1,900.0	1,890.7	1,738.9	1,674.2	4.4	7.5	-140.71	-97.5	352.2	531.4	524.2	7.20	73.820		
2,000.0	1,990.0	1,825.9	1,752.9	4.6	8.2	-140.19	-109.6	387.2	580.5	572.9	7.62	76.228		
2,100.0	2,089.3	1,913.0	1,831.7	4.9	8.9	-139.75	-121.7	422.2	629.6	621.5	8.03	78.394		
2,200.0	2,188.6	2,000.0	1,910.5	5.2	9.6	-139.37	-133.7	457.2	678.7	670.2	8.45	80.352		
2,300.0	2,287.9	2,087.0	1,989.2	5.5	10.3	-139.05	-145.8	492.2	727.8	718.9	8.86	82.130		
2,400.0	2,387.2	2,174.0	2,068.0	5.7	11.0	-138.76	-157.9	527.2	776.9	767.7	9.28	83.752		
2,500.0	2,486.5	2,261.1	2,146.7	6.0	11.7	-138.51	-170.0	562.2	826.1	816.4	9.69	85.238		
2,600.0	2,585.8	2,348.1	2,225.5	6.3	12.4	-138.29	-182.1	597.2	875.3	865.2	10.11	86.604		
2,700.0	2,685.1	2,435.1	2,304.3	6.5	13.1	-138.09	-194.2	632.2	924.4	913.9	10.52	87.865		
2,800.0	2,784.4	2,522.2	2,383.0	6.8	13.8	-137.92	-206.2	667.2	973.6	962.7	10.94	89.031		
2,900.0	2,883.7	2,609.2	2,461.8	7.1	14.5	-137.75	-218.3	702.2	1,022.8	1,011.5	11.35	90.113		
3,000.0	2,983.0	2,696.2	2,540.6	7.3	15.2	-137.61	-230.4	737.2	1,072.0	1,060.3	11.76	91.120		
3,100.0	3,082.3	2,783.3	2,619.3	7.6	16.0	-137.47	-242.5	772.2	1,121.2	1,109.0	12.18	92.059		
3,200.0	3,181.6	2,870.3	2,698.1	7.9	16.7	-137.35	-254.6	807.2	1,170.4	1,157.8	12.59	92.936		
3,300.0	3,280.9	2,957.3	2,776.8	8.1	17.4	-137.24	-266.6	842.2	1,219.6	1,206.6	13.01	93.759		
3,400.0	3,380.2	3,110.9	2,917.0	8.4	18.5	-137.09	-287.1	901.6	1,267.9	1,254.3	13.56	93.506		
3,500.0	3,479.7	3,380.2	3,172.8	8.6	20.0	-137.71	-314.3	980.4	1,304.9	1,290.4	14.45	90.291		
3,600.0	3,579.6	3,676.9	3,465.1	8.8	20.8	-137.98	-330.4	1,026.9	1,324.3	1,309.1	15.21	87.053		
3,700.0	3,679.6	3,891.6	3,679.6	8.9	21.0	95.49	-332.9	1,034.0	1,327.0	1,311.3	15.69	84.585		
3,800.0	3,779.6	3,991.6	3,779.6	9.0	21.1	95.49	-332.9	1,034.0	1,327.0	1,311.0	15.98	83.029		
3,900.0	3,879.6	4,091.6	3,879.6	9.2	21.1	95.49	-332.9	1,034.0	1,327.0	1,310.7	16.28	81.519		
4,000.0	3,979.6	4,191.6	3,979.6	9.3	21.2	95.49	-332.9	1,034.0	1,327.0	1,310.4	16.58	80.052		
4,100.0	4,079.6	4,291.6	4,079.6	9.4	21.2	95.49	-332.9	1,034.0	1,327.0	1,310.1	16.88	78.629		
4,200.0	4,179.6	4,391.6	4,179.6	9.6	21.3	95.49	-332.9	1,034.0	1,327.0	1,309.8	17.18	77.246		
4,300.0	4,279.6	4,491.6	4,279.6	9.7	21.4	95.49	-332.9	1,034.0	1,327.0	1,309.5	17.48	75.904		
4,400.0	4,379.6	4,591.6	4,379.6	9.8	21.4	95.49	-332.9	1,034.0	1,327.0	1,309.2	17.79	74.601		
4,500.0	4,479.6	4,691.6	4,479.6	10.0	21.5	95.49	-332.9	1,034.0	1,327.0	1,308.9	18.09	73.336		
4,600.0	4,579.6	4,791.6	4,579.6	10.1	21.6	95.49	-332.9	1,034.0	1,327.0	1,308.6	18.40	72.106		
4,700.0	4,679.6	4,891.6	4,679.6	10.2	21.6	95.49	-332.9	1,034.0	1,327.0	1,308.3	18.71	70.912		
4,800.0	4,779.6	4,991.6	4,779.6	10.4	21.7	95.49	-332.9	1,034.0	1,327.0	1,307.9	19.02	69.752		
4,900.0	4,879.6	5,091.6	4,879.6	10.5	21.8	95.49	-332.9	1,034.0	1,327.0	1,307.6	19.34	68.625		
5,000.0	4,979.6	5,191.6	4,979.6	10.7	21.8	95.49	-332.9	1,034.0	1,327.0	1,307.3	19.65	67.529		
5,100.0	5,079.6	5,291.6	5,079.6	10.8	21.9	95.49	-332.9	1,034.0	1,327.0	1,307.0	19.97	66.464		

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

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 44C-14
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.8ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.8ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 44C-14	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 #3	Offset TVD Reference:	Offset Datum

Offset Design													S14-T7S-R96W - Nolte 14C-13 - DD - Plan #3		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		Between Centres	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor						
							+N/-S (ft)	+E/-W (ft)										
5,200.0	5,179.6	5,391.6	5,179.6	10.9	22.0	95.49	-332.9	1,034.0	1,327.0	1,306.7	20.28	65.428						
5,300.0	5,279.6	5,491.6	5,279.6	11.1	22.1	95.49	-332.9	1,034.0	1,327.0	1,306.4	20.60	64.420						
5,400.0	5,379.6	5,591.6	5,379.6	11.2	22.1	95.49	-332.9	1,034.0	1,327.0	1,306.1	20.92	63.441						
5,500.0	5,479.6	5,691.6	5,479.6	11.4	22.2	95.49	-332.9	1,034.0	1,327.0	1,305.7	21.24	62.487						
5,600.0	5,579.6	5,791.6	5,579.6	11.5	22.3	95.49	-332.9	1,034.0	1,327.0	1,305.4	21.56	61.560						
5,700.0	5,679.6	5,891.6	5,679.6	11.7	22.4	95.49	-332.9	1,034.0	1,327.0	1,305.1	21.88	60.657						
5,800.0	5,779.6	5,991.6	5,779.6	11.8	22.4	95.49	-332.9	1,034.0	1,327.0	1,304.8	22.20	59.777						
5,825.7	5,805.3	6,017.3	5,805.3	11.9	22.5	95.49	-332.9	1,034.0	1,327.0	1,304.7	22.28	59.555						

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 44C-14
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.8ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.8ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 44C-14	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 #3	Offset TVD Reference:	Offset Datum

Offset Design S14-T7S-R96W - Nolte 14D-13 - DD - Plan #3														Offset Site Error:	0.0 ft
Survey Program: 0-MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)							
0.0	0.0	0.0	0.0	0.0	0.0	59.56	9.6	16.3	18.9						
100.0	100.0	100.0	100.0	0.1	0.1	59.56	9.6	16.3	18.9	18.6	0.26	73.759			
200.0	200.0	200.0	200.0	0.3	0.3	59.56	9.6	16.3	18.9	18.3	0.60	31.196			
300.0	300.0	300.0	300.0	0.5	0.5	59.56	9.6	16.3	18.9	17.9	0.95	19.782			
400.0	400.0	400.0	400.0	0.7	0.7	59.56	9.6	16.3	18.9	17.6	1.30	14.482 CC, ES			
500.0	500.0	499.3	499.3	0.8	0.8	167.68	8.2	18.4	22.7	21.1	1.65	13.743 SF			
600.0	599.7	597.3	597.0	1.0	1.0	-169.71	4.0	24.8	35.5	33.5	2.01	17.684			
700.0	699.1	693.5	692.4	1.3	1.3	-148.10	-2.7	35.2	55.1	52.7	2.38	23.115			
800.0	798.4	787.9	785.2	1.5	1.6	-144.76	-11.8	49.2	79.1	76.4	2.79	28.401			
900.0	897.7	879.9	874.9	1.7	2.0	-141.62	-23.1	66.6	107.3	104.1	3.21	33.458			
1,000.0	997.0	969.4	961.0	2.0	2.4	-138.88	-36.3	86.9	139.6	136.0	3.64	38.362			
1,100.0	1,096.3	1,056.0	1,043.1	2.3	2.9	-136.54	-51.1	109.8	176.0	171.9	4.08	43.167			
1,200.0	1,195.6	1,139.5	1,121.1	2.5	3.5	-134.55	-67.4	134.9	216.3	211.8	4.51	47.907			
1,300.0	1,294.9	1,219.8	1,194.9	2.8	4.1	-132.85	-84.7	161.6	260.3	255.4	4.95	52.603			
1,400.0	1,394.2	1,300.0	1,267.1	3.0	4.7	-131.34	-103.7	190.9	308.0	302.6	5.39	57.177			
1,500.0	1,493.5	1,375.5	1,333.8	3.3	5.4	-130.09	-123.0	220.5	358.7	352.9	5.81	61.718			
1,600.0	1,592.8	1,461.0	1,409.1	3.6	6.1	-128.97	-145.0	254.5	410.2	403.9	6.26	65.511			
1,700.0	1,692.1	1,546.5	1,484.4	3.8	6.9	-128.10	-167.0	288.5	461.7	455.0	6.71	68.832			
1,800.0	1,791.4	1,632.0	1,559.7	4.1	7.6	-127.41	-189.1	322.5	513.3	506.2	7.15	71.754			
1,900.0	1,890.7	1,717.5	1,635.0	4.4	8.4	-126.84	-211.1	356.4	565.0	557.4	7.60	74.345			
2,000.0	1,990.0	1,803.0	1,710.3	4.6	9.2	-126.37	-233.1	390.4	616.6	608.6	8.04	76.656			
2,100.0	2,089.3	1,888.5	1,785.6	4.9	9.9	-125.97	-255.2	424.4	668.4	659.9	8.49	78.727			
2,200.0	2,188.6	1,974.0	1,860.9	5.2	10.7	-125.62	-277.2	458.3	720.1	711.2	8.93	80.595			
2,300.0	2,287.9	2,059.5	1,936.2	5.5	11.5	-125.33	-299.3	492.3	771.8	762.5	9.38	82.291			
2,400.0	2,387.2	2,145.0	2,011.5	5.7	12.2	-125.07	-321.3	526.3	823.6	813.8	9.82	83.835			
2,500.0	2,486.5	2,230.5	2,086.8	6.0	13.0	-124.84	-343.3	560.3	875.4	865.1	10.27	85.248			
2,600.0	2,585.8	2,316.0	2,162.1	6.3	13.8	-124.63	-365.4	594.2	927.2	916.5	10.71	86.544			
2,700.0	2,685.1	2,401.5	2,237.5	6.5	14.6	-124.45	-387.4	628.2	979.0	967.8	11.16	87.739			
2,800.0	2,784.4	2,487.0	2,312.8	6.8	15.3	-124.29	-409.5	662.2	1,030.8	1,019.2	11.60	88.842			
2,900.0	2,883.7	2,572.5	2,388.1	7.1	16.1	-124.14	-431.5	696.1	1,082.6	1,070.5	12.05	89.865			
3,000.0	2,983.0	2,658.0	2,463.4	7.3	16.9	-124.01	-453.5	730.1	1,134.4	1,121.9	12.49	90.815			
3,100.0	3,082.3	2,743.6	2,538.7	7.6	17.6	-123.88	-475.6	764.1	1,186.2	1,173.2	12.94	91.701			
3,200.0	3,181.6	2,829.1	2,614.0	7.9	18.4	-123.77	-497.6	798.1	1,238.0	1,224.6	13.38	92.529			
3,300.0	3,280.9	2,914.6	2,689.3	8.1	19.2	-123.67	-519.6	832.0	1,289.8	1,276.0	13.82	93.303			
3,400.0	3,380.2	3,106.4	2,861.1	8.4	20.7	-123.54	-566.0	903.4	1,339.7	1,325.2	14.50	92.364			

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 44C-14
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.8ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.8ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 44C-14	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 #3	Offset TVD Reference:	Offset Datum

Offset Design		S14-T7S-R96W - Nolte 43A-14 - DD - Plan #3											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	27.52	35.5	18.5	40.0							
100.0	100.0	100.0	100.0	0.1	0.1	27.52	35.5	18.5	40.0	39.7	0.26	156.152				
200.0	200.0	200.0	200.0	0.3	0.3	27.52	35.5	18.5	40.0	39.4	0.61	66.073				
300.0	300.0	300.0	300.0	0.5	0.5	27.52	35.5	18.5	40.0	39.0	0.95	41.901	CC, ES			
400.0	400.0	398.3	398.3	0.7	0.7	25.37	37.9	18.0	42.0	40.7	1.30	32.245				
500.0	500.0	496.0	495.7	0.8	0.9	122.42	45.3	16.5	49.8	48.1	1.66	29.969	SF			
600.0	599.7	592.5	591.4	1.0	1.1	131.59	57.4	14.2	64.7	62.7	2.05	31.651				
700.0	699.1	686.5	683.9	1.3	1.4	146.11	73.7	11.0	88.2	85.7	2.44	36.120				
800.0	798.4	777.9	772.9	1.5	1.8	143.73	93.8	7.1	117.1	114.3	2.85	41.038				
900.0	897.7	866.6	858.3	1.7	2.3	141.52	117.3	2.5	150.2	146.9	3.27	45.875				
1,000.0	997.0	952.4	939.8	2.0	2.8	139.56	143.8	-2.7	187.2	183.6	3.70	50.671				
1,100.0	1,096.3	1,035.2	1,017.2	2.3	3.3	137.86	172.6	-8.3	228.2	224.1	4.12	55.445				
1,200.0	1,195.6	1,114.8	1,090.3	2.5	3.9	136.38	203.5	-14.3	272.9	268.4	4.53	60.208				
1,300.0	1,294.9	1,191.0	1,159.1	2.8	4.5	135.10	235.8	-20.6	321.1	316.1	4.94	64.940				
1,400.0	1,394.2	1,264.0	1,223.6	3.0	5.1	133.99	269.2	-27.1	372.6	367.2	5.35	69.626				
1,500.0	1,493.5	1,333.6	1,283.9	3.3	5.7	133.02	303.4	-33.8	427.2	421.5	5.75	74.299				
1,600.0	1,592.8	1,400.0	1,340.2	3.6	6.3	132.16	337.9	-40.5	484.7	478.6	6.14	78.957				
1,700.0	1,692.1	1,463.2	1,392.6	3.8	7.0	131.41	372.5	-47.3	545.0	538.4	6.52	83.527				
1,800.0	1,791.4	1,523.4	1,441.4	4.1	7.6	130.75	407.0	-54.0	607.7	600.8	6.90	88.076				
1,900.0	1,890.7	1,580.5	1,486.7	4.4	8.2	130.16	441.2	-60.7	672.8	665.5	7.27	92.568				
2,000.0	1,990.0	1,634.8	1,528.7	4.6	8.9	129.63	474.9	-67.3	740.1	732.5	7.63	97.019				
2,100.0	2,089.3	1,700.5	1,578.7	4.9	9.6	129.04	516.8	-75.4	808.9	800.9	8.01	100.964				
2,200.0	2,188.6	1,772.7	1,633.5	5.2	10.4	128.49	562.9	-84.4	877.9	869.5	8.41	104.399				
2,300.0	2,287.9	1,844.8	1,688.4	5.5	11.3	128.03	608.9	-93.4	947.0	938.2	8.81	107.543				
2,400.0	2,387.2	1,917.0	1,743.2	5.7	12.1	127.62	654.9	-102.4	1,016.0	1,006.8	9.20	110.432				
2,500.0	2,486.5	1,989.1	1,798.0	6.0	12.9	127.26	701.0	-111.4	1,085.1	1,075.5	9.59	113.092				
2,600.0	2,585.8	2,061.2	1,852.8	6.3	13.7	126.95	747.0	-120.4	1,154.2	1,144.2	9.99	115.549				
2,700.0	2,685.1	2,133.4	1,907.6	6.5	14.6	126.68	793.1	-129.3	1,223.3	1,212.9	10.38	117.828				
2,800.0	2,784.4	2,205.5	1,962.4	6.8	15.4	126.43	839.1	-138.3	1,292.5	1,281.7	10.78	119.947				

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 44C-14
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.8ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.8ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 44C-14	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 #3	Offset TVD Reference:	Offset Datum

Offset Design S14-T7S-R96W - Nolte 43B-14 - DD - Plan #3													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	27.51	28.4	14.8	32.0					
100.0	100.0	100.0	100.0	0.1	0.1	27.51	28.4	14.8	32.0	31.7	124.868			
200.0	200.0	200.0	200.0	0.3	0.3	27.51	28.4	14.8	32.0	31.4	52.850			
300.0	300.0	300.0	300.0	0.5	0.5	27.51	28.4	14.8	32.0	31.0	33.518			
333.7	333.7	333.7	333.7	0.5	0.5	27.51	28.4	14.8	32.0	30.9	29.841 CC, ES			
400.0	400.0	399.4	399.4	0.7	0.7	26.77	29.0	14.6	32.5	31.2	24.938			
500.0	500.0	497.8	497.6	0.8	0.8	124.83	33.9	13.5	38.0	36.4	22.943 SF			
600.0	599.7	595.2	594.5	1.0	1.1	134.45	43.7	11.2	50.7	48.6	24.899			
700.0	699.1	690.5	688.7	1.3	1.3	148.36	57.8	7.9	71.7	69.3	29.521			
800.0	798.4	783.4	779.7	1.5	1.7	145.23	76.0	3.6	98.1	95.3	34.529			
900.0	897.7	873.8	867.3	1.7	2.1	142.41	97.9	-1.5	128.7	125.5	39.411			
1,000.0	997.0	961.5	951.1	2.0	2.6	139.96	122.9	-7.4	163.5	159.8	44.222			
1,100.0	1,096.3	1,046.1	1,030.8	2.3	3.1	137.87	150.5	-13.9	202.2	198.0	48.995			
1,200.0	1,195.6	1,127.7	1,106.4	2.5	3.6	136.09	180.4	-20.9	244.7	240.1	53.744			
1,300.0	1,294.9	1,200.0	1,172.2	2.8	4.2	134.67	209.5	-27.7	290.9	286.0	58.677			
1,400.0	1,394.2	1,280.9	1,244.5	3.0	4.8	133.25	244.9	-36.0	340.5	335.1	63.155			
1,500.0	1,493.5	1,352.5	1,307.1	3.3	5.5	132.12	278.7	-43.9	393.3	387.5	67.804			
1,600.0	1,592.8	1,423.2	1,367.6	3.6	6.1	131.10	314.3	-52.3	449.2	443.0	72.393			
1,700.0	1,692.1	1,505.1	1,437.3	3.8	6.9	130.13	356.3	-62.1	506.1	499.5	76.304			
1,800.0	1,791.4	1,587.1	1,506.9	4.1	7.6	129.35	398.3	-72.0	563.1	556.1	79.765			
1,900.0	1,890.7	1,669.0	1,576.5	4.4	8.4	128.71	440.4	-81.8	620.2	612.7	82.850			
2,000.0	1,990.0	1,750.9	1,646.1	4.6	9.1	128.18	482.4	-91.7	677.3	669.4	85.616			
2,100.0	2,089.3	1,832.9	1,715.8	4.9	9.9	127.73	524.5	-101.6	734.5	726.2	88.110			
2,200.0	2,188.6	1,914.8	1,785.4	5.2	10.7	127.35	566.5	-111.4	791.7	782.9	90.370			
2,300.0	2,287.9	1,996.7	1,855.0	5.5	11.4	127.02	608.5	-121.3	848.9	839.7	92.427			
2,400.0	2,387.2	2,078.6	1,924.6	5.7	12.2	126.73	650.6	-131.1	906.1	896.5	94.305			
2,500.0	2,486.5	2,160.6	1,994.3	6.0	13.0	126.47	692.6	-141.0	963.3	953.3	96.028			
2,600.0	2,585.8	2,242.5	2,063.9	6.3	13.7	126.25	734.7	-150.9	1,020.6	1,010.1	97.615			
2,700.0	2,685.1	2,324.4	2,133.5	6.5	14.5	126.04	776.7	-160.7	1,077.9	1,067.0	99.080			
2,800.0	2,784.4	2,406.4	2,203.1	6.8	15.3	125.86	818.8	-170.6	1,135.1	1,123.8	100.438			
2,900.0	2,883.7	2,488.3	2,272.8	7.1	16.0	125.70	860.8	-180.4	1,192.4	1,180.7	101.699			
3,000.0	2,983.0	2,570.2	2,342.4	7.3	16.8	125.55	902.8	-190.3	1,249.7	1,237.5	102.874			
3,100.0	3,082.3	2,652.1	2,412.0	7.6	17.6	125.41	944.9	-200.2	1,307.0	1,294.4	103.970			

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

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 44C-14
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.8ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.8ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 44C-14	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 #3	Offset TVD Reference:	Offset Datum

Offset Design S14-T7S-R96W - Nolte 43C-14 - DD - Plan #3													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		Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
							+N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	27.55	21.3	11.1	24.0					
100.0	100.0	100.0	100.0	0.1	0.1	27.55	21.3	11.1	24.0	23.7	0.26	93.636		
200.0	200.0	200.0	200.0	0.3	0.3	27.55	21.3	11.1	24.0	23.4	0.61	39.645		
300.0	300.0	300.0	300.0	0.5	0.5	27.55	21.3	11.1	24.0	23.0	0.95	25.146		
400.0	400.0	400.0	400.0	0.7	0.7	27.55	21.3	11.1	24.0	22.7	1.30	18.412 CC, ES		
500.0	500.0	499.0	499.0	0.8	0.8	127.80	23.7	10.2	27.3	25.7	1.66	16.509 SF		
600.0	599.7	597.4	597.1	1.0	1.0	137.90	30.9	7.6	37.4	35.4	2.03	18.430		
700.0	699.1	694.1	692.9	1.3	1.3	150.28	42.5	3.3	55.4	53.0	2.43	22.834		
800.0	798.4	788.7	786.1	1.5	1.6	145.59	58.3	-2.4	78.6	75.7	2.85	27.577		
900.0	897.7	881.2	876.1	1.7	2.0	141.51	77.9	-9.6	105.9	102.6	3.29	32.182		
1,000.0	997.0	971.1	962.6	2.0	2.4	138.09	100.9	-18.0	137.4	133.6	3.74	36.724		
1,100.0	1,096.3	1,060.0	1,047.0	2.3	2.9	135.22	127.2	-27.6	172.8	168.6	4.19	41.246		
1,200.0	1,195.6	1,152.8	1,134.8	2.5	3.4	133.07	155.6	-38.0	209.4	204.8	4.65	45.064		
1,300.0	1,294.9	1,245.6	1,222.5	2.8	3.9	131.56	184.0	-48.3	246.3	241.2	5.11	48.235		
1,400.0	1,394.2	1,338.4	1,310.3	3.0	4.5	130.45	212.4	-58.7	283.2	277.7	5.56	50.903		
1,500.0	1,493.5	1,431.2	1,398.0	3.3	5.0	129.59	240.8	-69.1	320.3	314.2	6.02	53.173		
1,600.0	1,592.8	1,524.0	1,485.7	3.6	5.6	128.91	269.1	-79.4	357.3	350.9	6.48	55.127		
1,700.0	1,692.1	1,616.8	1,573.5	3.8	6.1	128.35	297.5	-89.8	394.5	387.5	6.94	56.824		
1,800.0	1,791.4	1,709.6	1,661.2	4.1	6.6	127.89	325.9	-100.2	431.6	424.2	7.40	58.313		
1,900.0	1,890.7	1,802.4	1,748.9	4.4	7.2	127.51	354.3	-110.5	468.7	460.9	7.86	59.628		
2,000.0	1,990.0	1,895.2	1,836.7	4.6	7.7	127.18	382.7	-120.9	505.9	497.6	8.32	60.798		
2,100.0	2,089.3	1,988.0	1,924.4	4.9	8.3	126.90	411.1	-131.3	543.1	534.3	8.78	61.846		
2,200.0	2,188.6	2,080.8	2,012.2	5.2	8.8	126.65	439.5	-141.7	580.3	571.1	9.24	62.789		
2,300.0	2,287.9	2,173.6	2,099.9	5.5	9.4	126.43	467.9	-152.0	617.5	607.8	9.70	63.642		
2,400.0	2,387.2	2,266.4	2,187.6	5.7	9.9	126.24	496.3	-162.4	654.7	644.5	10.16	64.419		
2,500.0	2,486.5	2,359.2	2,275.4	6.0	10.5	126.07	524.7	-172.8	691.9	681.3	10.62	65.127		
2,600.0	2,585.8	2,452.0	2,363.1	6.3	11.1	125.91	553.1	-183.1	729.1	718.1	11.09	65.777		
2,700.0	2,685.1	2,544.8	2,450.8	6.5	11.6	125.77	581.5	-193.5	766.4	754.8	11.55	66.374		
2,800.0	2,784.4	2,637.6	2,538.6	6.8	12.2	125.64	609.8	-203.9	803.6	791.6	12.01	66.926		
2,900.0	2,883.7	2,730.4	2,626.3	7.1	12.7	125.53	638.2	-214.2	840.8	828.4	12.47	67.437		
3,000.0	2,983.0	2,823.2	2,714.1	7.3	13.3	125.42	666.6	-224.6	878.1	865.1	12.93	67.911		
3,100.0	3,082.3	2,916.0	2,801.8	7.6	13.8	125.33	695.0	-235.0	915.3	901.9	13.39	68.352		
3,200.0	3,181.6	3,008.8	2,889.5	7.9	14.4	125.24	723.4	-245.4	952.5	938.7	13.85	68.764		
3,300.0	3,280.9	3,101.6	2,977.3	8.1	14.9	125.15	751.8	-255.7	989.8	975.5	14.31	69.149		
3,400.0	3,380.2	3,234.6	3,103.6	8.4	15.7	125.08	791.0	-270.1	1,026.2	1,011.4	14.86	69.055		
3,500.0	3,479.7	3,432.0	3,295.3	8.6	16.5	125.70	834.8	-286.1	1,054.0	1,038.4	15.59	67.589		
3,600.0	3,579.6	3,639.7	3,501.0	8.8	17.0	125.98	860.6	-295.5	1,069.1	1,052.9	16.17	66.104		
3,700.0	3,679.6	3,818.4	3,679.6	8.9	17.1	-0.57	866.0	-297.5	1,071.9	1,055.3	16.57	64.702		
3,800.0	3,779.6	3,918.4	3,779.6	9.0	17.2	-0.57	866.0	-297.5	1,071.9	1,055.1	16.84	63.642		
3,900.0	3,879.6	4,018.4	3,879.6	9.2	17.3	-0.57	866.0	-297.5	1,071.9	1,054.8	17.12	62.606		
4,000.0	3,979.6	4,118.4	3,979.6	9.3	17.3	-0.57	866.0	-297.5	1,071.9	1,054.5	17.40	61.595		
4,100.0	4,079.6	4,218.4	4,079.6	9.4	17.4	-0.57	866.0	-297.5	1,071.9	1,054.2	17.69	60.607		
4,200.0	4,179.6	4,318.4	4,179.6	9.6	17.5	-0.57	866.0	-297.5	1,071.9	1,053.9	17.97	59.643		
4,300.0	4,279.6	4,418.4	4,279.6	9.7	17.5	-0.57	866.0	-297.5	1,071.9	1,053.6	18.26	58.702		
4,400.0	4,379.6	4,518.4	4,379.6	9.8	17.6	-0.57	866.0	-297.5	1,071.9	1,053.3	18.55	57.784		
4,500.0	4,479.6	4,618.4	4,479.6	10.0	17.7	-0.57	866.0	-297.5	1,071.9	1,053.1	18.84	56.888		
4,600.0	4,579.6	4,718.4	4,579.6	10.1	17.8	-0.57	866.0	-297.5	1,071.9	1,052.8	19.14	56.014		
4,700.0	4,679.6	4,818.4	4,679.6	10.2	17.9	-0.57	866.0	-297.5	1,071.9	1,052.5	19.43	55.161		
4,800.0	4,779.6	4,918.4	4,779.6	10.4	17.9	-0.57	866.0	-297.5	1,071.9	1,052.2	19.73	54.329		
4,900.0	4,879.6	5,018.4	4,879.6	10.5	18.0	-0.57	866.0	-297.5	1,071.9	1,051.9	20.03	53.517		
5,000.0	4,979.6	5,118.4	4,979.6	10.7	18.1	-0.57	866.0	-297.5	1,071.9	1,051.6	20.33	52.725		
5,100.0	5,079.6	5,218.4	5,079.6	10.8	18.2	-0.57	866.0	-297.5	1,071.9	1,051.3	20.63	51.953		

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

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 44C-14
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.8ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.8ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 44C-14	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 #3	Offset TVD Reference:	Offset Datum

Offset Design													S14-T7S-R96W - Nolte 43C-14 - DD - Plan #3		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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor					
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)		(ft)							
5,200.0	5,179.6	5,318.4	5,179.6	10.9	18.3	-0.57	866.0	-297.5	1,071.9	1,051.0	20.94	51.199					
5,300.0	5,279.6	5,418.4	5,279.6	11.1	18.4	-0.57	866.0	-297.5	1,071.9	1,050.7	21.24	50.463					
5,400.0	5,379.6	5,518.4	5,379.6	11.2	18.5	-0.57	866.0	-297.5	1,071.9	1,050.3	21.55	49.745					
5,500.0	5,479.6	5,618.4	5,479.6	11.4	18.6	-0.57	866.0	-297.5	1,071.9	1,050.0	21.86	49.044					
5,600.0	5,579.6	5,718.4	5,579.6	11.5	18.7	-0.57	866.0	-297.5	1,071.9	1,049.7	22.16	48.361					
5,700.0	5,679.6	5,818.4	5,679.6	11.7	18.7	-0.57	866.0	-297.5	1,071.9	1,049.4	22.47	47.693					
5,800.0	5,779.6	5,918.4	5,779.6	11.8	18.8	-0.57	866.0	-297.5	1,071.9	1,049.1	22.79	47.041					
5,825.7	5,805.3	5,944.1	5,805.3	11.9	18.9	-0.57	866.0	-297.5	1,071.9	1,049.0	22.87	46.876					

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 44C-14
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.8ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.8ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 44C-14	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 #3	Offset TVD Reference:	Offset Datum

Offset Design S14-T7S-R96W - Nolte 44A-14 - DD - Plan #3														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	27.55	14.2	7.4	16.0						
100.0	100.0	100.0	100.0	0.1	0.1	27.55	14.2	7.4	16.0	15.7	0.26	62.374			
200.0	200.0	200.0	200.0	0.3	0.3	27.55	14.2	7.4	16.0	15.4	0.61	26.422			
300.0	300.0	300.0	300.0	0.5	0.5	27.55	14.2	7.4	16.0	15.0	0.95	16.761			
400.0	400.0	400.0	400.0	0.7	0.7	27.55	14.2	7.4	16.0	14.7	1.30	12.274 CC, ES			
500.0	500.0	499.8	499.8	0.8	0.8	132.98	14.6	7.2	17.9	16.3	1.65	10.828 SF			
600.0	599.7	599.2	599.2	1.0	1.0	148.28	17.6	5.5	25.1	23.0	2.01	12.441			
700.0	699.1	697.9	697.6	1.3	1.2	160.83	23.5	2.1	37.9	35.5	2.38	15.899			
800.0	798.4	795.8	794.9	1.5	1.4	155.10	32.4	-2.8	53.9	51.1	2.79	19.328			
900.0	897.7	892.7	890.9	1.7	1.7	149.82	43.9	-9.3	72.1	68.9	3.22	22.410			
1,000.0	997.0	988.5	985.4	2.0	2.0	145.14	58.2	-17.3	92.8	89.2	3.67	25.300			
1,100.0	1,096.3	1,083.1	1,077.9	2.3	2.3	141.06	74.9	-26.7	116.3	112.1	4.14	28.090			
1,200.0	1,195.6	1,176.1	1,168.4	2.5	2.7	137.51	94.0	-37.4	142.5	137.9	4.62	30.840			
1,300.0	1,294.9	1,267.6	1,256.5	2.8	3.1	134.45	115.2	-49.4	171.5	166.4	5.11	33.582			
1,400.0	1,394.2	1,357.2	1,342.1	3.0	3.6	131.79	138.4	-62.4	203.4	197.8	5.60	36.339			
1,500.0	1,493.5	1,448.5	1,428.5	3.3	4.1	129.45	163.9	-76.8	237.6	231.5	6.09	39.035			
1,600.0	1,592.8	1,541.9	1,517.0	3.6	4.7	127.63	190.3	-91.6	272.3	265.7	6.58	41.395			
1,700.0	1,692.1	1,635.4	1,605.4	3.8	5.2	126.21	216.8	-106.4	307.2	300.1	7.07	43.468			
1,800.0	1,791.4	1,728.9	1,693.8	4.1	5.7	125.09	243.2	-121.3	342.3	334.7	7.56	45.300			
1,900.0	1,890.7	1,822.3	1,782.2	4.4	6.3	124.17	269.6	-136.1	377.4	369.4	8.04	46.927			
2,000.0	1,990.0	1,915.8	1,870.6	4.6	6.8	123.41	296.0	-150.9	412.6	404.1	8.53	48.382			
2,100.0	2,089.3	2,009.3	1,959.1	4.9	7.4	122.76	322.4	-165.8	447.9	438.9	9.01	49.688			
2,200.0	2,188.6	2,102.7	2,047.5	5.2	7.9	122.22	348.8	-180.6	483.2	473.7	9.50	50.868			
2,300.0	2,287.9	2,196.2	2,135.9	5.5	8.5	121.74	375.2	-195.4	518.5	508.6	9.98	51.937			
2,400.0	2,387.2	2,289.7	2,224.3	5.7	9.0	121.33	401.6	-210.3	553.9	543.4	10.47	52.911			
2,500.0	2,486.5	2,393.1	2,322.4	6.0	9.6	120.95	430.4	-226.5	588.9	578.0	10.97	53.662			
2,600.0	2,585.8	2,510.4	2,434.7	6.3	10.2	120.74	459.7	-242.9	621.0	609.5	11.50	53.985			
2,700.0	2,685.1	2,630.5	2,551.1	6.5	10.7	120.73	485.6	-257.5	649.5	637.4	12.03	53.986			
2,800.0	2,784.4	2,753.2	2,671.2	6.8	11.2	120.91	507.6	-269.8	674.2	661.7	12.56	53.695			
2,900.0	2,883.7	2,878.1	2,794.3	7.1	11.6	121.27	525.3	-279.8	695.2	682.1	13.08	53.150			
3,000.0	2,983.0	3,004.7	2,920.0	7.3	11.9	121.80	538.5	-287.2	712.2	698.6	13.60	52.386			
3,100.0	3,082.3	3,132.5	3,047.5	7.6	12.1	122.49	546.9	-292.0	725.3	711.2	14.10	51.446			
3,200.0	3,181.6	3,261.2	3,176.1	7.9	12.2	123.36	550.4	-293.9	734.5	720.0	14.59	50.342			
3,300.0	3,280.9	3,366.0	3,280.9	8.1	12.3	124.16	550.5	-294.0	741.2	726.2	15.03	49.301			
3,400.0	3,380.2	3,465.3	3,380.2	8.4	12.4	124.90	550.5	-294.0	747.9	732.5	15.46	48.369			
3,500.0	3,479.7	3,564.8	3,479.7	8.6	12.5	125.62	550.5	-294.0	753.5	737.6	15.88	47.438			
3,600.0	3,579.6	3,664.7	3,579.6	8.8	12.6	125.96	550.5	-294.0	756.1	739.9	16.22	46.627			
3,700.0	3,679.6	3,764.7	3,679.6	8.9	12.6	-0.54	550.5	-294.0	756.3	739.8	16.50	45.852			
3,800.0	3,779.6	3,864.7	3,779.6	9.0	12.7	-0.54	550.5	-294.0	756.3	739.6	16.77	45.100			
3,900.0	3,879.6	3,964.7	3,879.6	9.2	12.8	-0.54	550.5	-294.0	756.3	739.3	17.05	44.365			
4,000.0	3,979.6	4,064.7	3,979.6	9.3	12.9	-0.54	550.5	-294.0	756.3	739.0	17.33	43.647			
4,100.0	4,079.6	4,164.7	4,079.6	9.4	13.0	-0.54	550.5	-294.0	756.3	738.7	17.61	42.946			
4,200.0	4,179.6	4,264.7	4,179.6	9.6	13.1	-0.54	550.5	-294.0	756.3	738.4	17.90	42.261			
4,300.0	4,279.6	4,364.7	4,279.6	9.7	13.2	-0.54	550.5	-294.0	756.3	738.1	18.18	41.593			
4,400.0	4,379.6	4,464.7	4,379.6	9.8	13.3	-0.54	550.5	-294.0	756.3	737.9	18.47	40.941			
4,500.0	4,479.6	4,564.7	4,479.6	10.0	13.4	-0.54	550.5	-294.0	756.3	737.6	18.77	40.305			
4,600.0	4,579.6	4,664.7	4,579.6	10.1	13.5	-0.54	550.5	-294.0	756.3	737.3	19.06	39.684			
4,700.0	4,679.6	4,764.7	4,679.6	10.2	13.6	-0.54	550.5	-294.0	756.3	737.0	19.35	39.079			
4,800.0	4,779.6	4,864.7	4,779.6	10.4	13.7	-0.54	550.5	-294.0	756.3	736.7	19.65	38.488			
4,900.0	4,879.6	4,964.7	4,879.6	10.5	13.8	-0.54	550.5	-294.0	756.3	736.4	19.95	37.911			
5,000.0	4,979.6	5,064.7	4,979.6	10.7	14.0	-0.54	550.5	-294.0	756.3	736.1	20.25	37.349			
5,100.0	5,079.6	5,164.7	5,079.6	10.8	14.1	-0.54	550.5	-294.0	756.3	735.8	20.55	36.800			

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

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 44C-14
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.8ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.8ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 44C-14	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 #3	Offset TVD Reference:	Offset Datum

Offset Design S14-T7S-R96W - Nolte 44A-14 - DD - Plan #3													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		
5,200.0	5,179.6	5,264.7	5,179.6	10.9	14.2	-0.54	550.5	-294.0	756.3	735.5	20.86	36.265		
5,300.0	5,279.6	5,364.7	5,279.6	11.1	14.3	-0.54	550.5	-294.0	756.3	735.2	21.16	35.742		
5,400.0	5,379.6	5,464.7	5,379.6	11.2	14.4	-0.54	550.5	-294.0	756.3	734.9	21.47	35.232		
5,500.0	5,479.6	5,564.7	5,479.6	11.4	14.5	-0.54	550.5	-294.0	756.3	734.6	21.77	34.735		
5,600.0	5,579.6	5,664.7	5,579.6	11.5	14.6	-0.54	550.5	-294.0	756.3	734.2	22.08	34.249		
5,700.0	5,679.6	5,764.7	5,679.6	11.7	14.8	-0.54	550.5	-294.0	756.3	733.9	22.39	33.775		
5,800.0	5,779.6	5,864.7	5,779.6	11.8	14.9	-0.54	550.5	-294.0	756.3	733.6	22.70	33.313		
5,825.7	5,805.3	5,890.4	5,805.3	11.9	14.9	-0.54	550.5	-294.0	756.3	733.5	22.78	33.196		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 44C-14
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.8ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.8ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 44C-14	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 #3	Offset TVD Reference:	Offset Datum

Offset Design S14-T7S-R96W - Nolte 44B-14 - DD - Plan #3														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	27.56	7.1	3.7	8.0						
100.0	100.0	100.0	100.0	0.1	0.1	27.56	7.1	3.7	8.0	7.7	0.26	31.162			
200.0	200.0	200.0	200.0	0.3	0.3	27.56	7.1	3.7	8.0	7.4	0.61	13.205			
300.0	300.0	300.0	300.0	0.5	0.5	27.56	7.1	3.7	8.0	7.0	0.95	8.377			
400.0	400.0	400.0	400.0	0.7	0.7	27.56	7.1	3.7	8.0	6.7	1.30	6.135 CC, ES			
500.0	500.0	500.0	500.0	0.8	0.8	139.72	7.1	3.7	9.8	8.2	1.65	5.934 SF			
600.0	599.7	599.9	599.9	1.0	1.0	157.74	8.4	1.4	15.5	13.5	2.01	7.730			
700.0	699.1	699.7	699.3	1.3	1.2	161.42	12.3	-5.4	24.3	21.9	2.40	10.156			
800.0	798.4	798.9	797.8	1.5	1.4	148.89	17.9	-15.2	35.3	32.5	2.83	12.458			
900.0	897.7	898.1	896.4	1.7	1.7	142.29	23.6	-25.2	47.2	43.9	3.29	14.347			
1,000.0	997.0	997.2	994.9	2.0	1.9	138.36	29.3	-35.2	59.4	55.6	3.75	15.841			
1,100.0	1,096.3	1,096.4	1,093.4	2.3	2.2	135.79	35.0	-45.2	71.8	67.6	4.22	17.027			
1,200.0	1,195.6	1,195.6	1,191.9	2.5	2.4	133.97	40.7	-55.2	84.3	79.6	4.69	17.983			
1,300.0	1,294.9	1,294.8	1,290.4	2.8	2.7	132.63	46.4	-65.2	96.9	91.7	5.16	18.766			
1,400.0	1,394.2	1,394.0	1,388.9	3.0	2.9	131.59	52.0	-75.2	109.5	103.9	5.64	19.418			
1,500.0	1,493.5	1,493.2	1,487.5	3.3	3.2	130.77	57.7	-85.2	122.1	116.0	6.12	19.967			
1,600.0	1,592.8	1,592.3	1,586.0	3.6	3.4	130.10	63.4	-95.1	134.8	128.2	6.60	20.436			
1,700.0	1,692.1	1,691.5	1,684.5	3.8	3.7	129.55	69.1	-105.1	147.5	140.4	7.08	20.840			
1,800.0	1,791.4	1,790.7	1,783.0	4.1	4.0	129.08	74.8	-115.1	160.2	152.6	7.56	21.192			
1,900.0	1,890.7	1,889.9	1,881.5	4.4	4.2	128.69	80.5	-125.1	172.8	164.8	8.04	21.502			
2,000.0	1,990.0	1,989.1	1,980.0	4.6	4.5	128.34	86.2	-135.1	185.6	177.0	8.52	21.775			
2,100.0	2,089.3	2,088.3	2,078.6	4.9	4.7	128.05	91.9	-145.1	198.3	189.3	9.00	22.019			
2,200.0	2,188.6	2,187.4	2,177.1	5.2	5.0	127.78	97.6	-155.1	211.0	201.5	9.49	22.238			
2,300.0	2,287.9	2,286.6	2,275.6	5.5	5.3	127.55	103.3	-165.1	223.7	213.7	9.97	22.435			
2,400.0	2,387.2	2,385.8	2,374.1	5.7	5.5	127.34	109.0	-175.0	236.4	226.0	10.45	22.613			
2,500.0	2,486.5	2,485.0	2,472.6	6.0	5.8	127.16	114.7	-185.0	249.1	238.2	10.94	22.776			
2,600.0	2,585.8	2,584.2	2,571.1	6.3	6.1	126.99	120.4	-195.0	261.9	250.4	11.42	22.924			
2,700.0	2,685.1	2,683.4	2,669.6	6.5	6.3	126.83	126.1	-205.0	274.6	262.7	11.91	23.060			
2,800.0	2,784.4	2,782.6	2,768.2	6.8	6.6	126.70	131.7	-215.0	287.3	274.9	12.39	23.186			
2,900.0	2,883.7	2,881.7	2,866.7	7.1	6.9	126.57	137.4	-225.0	300.0	287.2	12.88	23.302			
3,000.0	2,983.0	2,980.9	2,965.2	7.3	7.1	126.45	143.1	-235.0	312.8	299.4	13.36	23.409			
3,100.0	3,082.3	3,080.1	3,063.7	7.6	7.4	126.34	148.8	-245.0	325.5	311.7	13.85	23.508			
3,200.0	3,181.6	3,179.3	3,162.2	7.9	7.7	126.24	154.5	-254.9	338.2	323.9	14.33	23.601			
3,300.0	3,280.9	3,278.5	3,260.7	8.1	7.9	126.15	160.2	-264.9	351.0	336.2	14.82	23.688			
3,400.0	3,380.2	3,377.7	3,359.3	8.4	8.2	126.06	165.9	-274.9	363.7	348.4	15.30	23.769			
3,500.0	3,479.7	3,482.9	3,463.9	8.6	8.4	126.06	171.5	-284.7	374.8	359.0	15.76	23.784			
3,600.0	3,579.6	3,593.8	3,574.6	8.8	8.6	125.99	174.5	-290.0	380.2	364.1	16.10	23.614			
3,700.0	3,679.6	3,698.8	3,679.6	8.9	8.7	-0.56	174.8	-290.6	380.7	364.3	16.38	23.240			
3,800.0	3,779.6	3,798.8	3,779.6	9.0	8.9	-0.56	174.8	-290.6	380.7	364.0	16.65	22.857			
3,900.0	3,879.6	3,898.8	3,879.6	9.2	9.0	-0.56	174.8	-290.6	380.7	363.7	16.93	22.482			
4,000.0	3,979.6	3,998.8	3,979.6	9.3	9.1	-0.56	174.8	-290.6	380.7	363.5	17.21	22.117			
4,100.0	4,079.6	4,098.8	4,079.6	9.4	9.3	-0.56	174.8	-290.6	380.7	363.2	17.49	21.759			
4,200.0	4,179.6	4,198.8	4,179.6	9.6	9.4	-0.56	174.8	-290.6	380.7	362.9	17.78	21.411			
4,300.0	4,279.6	4,298.8	4,279.6	9.7	9.5	-0.56	174.8	-290.6	380.7	362.6	18.07	21.071			
4,400.0	4,379.6	4,398.8	4,379.6	9.8	9.7	-0.56	174.8	-290.6	380.7	362.3	18.36	20.739			
4,500.0	4,479.6	4,498.8	4,479.6	10.0	9.8	-0.56	174.8	-290.6	380.7	362.0	18.65	20.415			
4,600.0	4,579.6	4,598.8	4,579.6	10.1	10.0	-0.56	174.8	-290.6	380.7	361.7	18.94	20.099			
4,700.0	4,679.6	4,698.8	4,679.6	10.2	10.1	-0.56	174.8	-290.6	380.7	361.4	19.24	19.790			
4,800.0	4,779.6	4,798.8	4,779.6	10.4	10.2	-0.56	174.8	-290.6	380.7	361.1	19.53	19.489			
4,900.0	4,879.6	4,898.8	4,879.6	10.5	10.4	-0.56	174.8	-290.6	380.7	360.8	19.83	19.196			
5,000.0	4,979.6	4,998.8	4,979.6	10.7	10.5	-0.56	174.8	-290.6	380.7	360.5	20.13	18.910			
5,100.0	5,079.6	5,098.8	5,079.6	10.8	10.7	-0.56	174.8	-290.6	380.7	360.2	20.43	18.630			

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

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 44C-14
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.8ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.8ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 44C-14	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 #3	Offset TVD Reference:	Offset Datum

Offset Design S14-T7S-R96W - Nolte 44B-14 - DD - Plan #3													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		
5,200.0	5,179.6	5,198.8	5,179.6	10.9	10.8	-0.56	174.8	-290.6	380.7	359.9	20.74	18.358		
5,300.0	5,279.6	5,298.8	5,279.6	11.1	11.0	-0.56	174.8	-290.6	380.7	359.6	21.04	18.092		
5,400.0	5,379.6	5,398.8	5,379.6	11.2	11.1	-0.56	174.8	-290.6	380.7	359.3	21.35	17.833		
5,500.0	5,479.6	5,498.8	5,479.6	11.4	11.3	-0.56	174.8	-290.6	380.7	359.0	21.65	17.580		
5,600.0	5,579.6	5,598.8	5,579.6	11.5	11.4	-0.56	174.8	-290.6	380.7	358.7	21.96	17.333		
5,700.0	5,679.6	5,698.8	5,679.6	11.7	11.6	-0.56	174.8	-290.6	380.7	358.4	22.27	17.092		
5,800.0	5,779.6	5,798.8	5,779.6	11.8	11.7	-0.56	174.8	-290.6	380.7	358.1	22.58	16.856		
5,825.7	5,805.3	5,824.5	5,805.3	11.9	11.7	-0.56	174.8	-290.6	380.7	358.0	22.66	16.797		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 44C-14
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.8ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.8ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 44C-14	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 #3	Offset TVD Reference:	Offset Datum

Offset Design S14-T7S-R96W - Nolte SWD 1-14 - DD - Plan #3														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	-152.43	-7.1	-3.7	8.0						
100.0	100.0	100.0	100.0	0.1	0.1	-152.43	-7.1	-3.7	8.0	7.7	0.26	31.102			
200.0	200.0	200.0	200.0	0.3	0.3	-152.43	-7.1	-3.7	8.0	7.4	0.61	13.190			
300.0	300.0	300.0	300.0	0.5	0.5	-152.43	-7.1	-3.7	8.0	7.0	0.96	8.370			
400.0	400.0	400.0	400.0	0.7	0.7	-152.43	-7.1	-3.7	8.0	6.7	1.30	6.130			
500.0	500.0	500.0	500.0	0.8	0.8	-70.42	-7.1	-3.7	6.7	5.1	1.66	4.058			
535.1	535.0	535.0	535.0	0.9	0.9	-83.50	-7.1	-3.7	6.2	4.4	1.79	3.486	CC, ES, SF		
600.0	599.7	599.7	599.7	1.0	1.0	-121.51	-7.1	-3.7	8.1	6.1	2.02	4.020			
700.0	699.1	699.1	699.1	1.3	1.2	-145.48	-7.1	-3.7	15.6	13.3	2.36	6.636			
800.0	798.4	798.4	798.4	1.5	1.3	-160.23	-7.1	-3.7	26.2	23.5	2.70	9.730			
900.0	897.7	897.7	897.7	1.7	1.5	-166.33	-7.1	-3.7	37.5	34.5	3.04	12.349			
1,000.0	997.0	997.0	997.0	2.0	1.7	-169.58	-7.1	-3.7	49.1	45.7	3.39	14.494			
1,100.0	1,096.3	1,096.3	1,096.3	2.3	1.9	-171.60	-7.1	-3.7	60.7	57.0	3.73	16.265			
1,200.0	1,195.6	1,195.6	1,195.6	2.5	2.0	-172.96	-7.1	-3.7	72.4	68.3	4.08	17.746			
1,300.0	1,294.9	1,294.9	1,294.9	2.8	2.2	-173.94	-7.1	-3.7	84.1	79.7	4.43	19.002			
1,400.0	1,394.2	1,394.2	1,394.2	3.0	2.4	-174.69	-7.1	-3.7	95.9	91.1	4.78	20.078			
1,500.0	1,493.5	1,493.5	1,493.5	3.3	2.6	-175.27	-7.1	-3.7	107.6	102.5	5.12	21.010			
1,600.0	1,592.8	1,592.8	1,592.8	3.6	2.7	-175.74	-7.1	-3.7	119.4	113.9	5.47	21.826			
1,700.0	1,692.1	1,692.1	1,692.1	3.8	2.9	-176.12	-7.1	-3.7	131.1	125.3	5.82	22.546			
1,800.0	1,791.4	1,791.4	1,791.4	4.1	3.1	-176.44	-7.1	-3.7	142.9	136.8	6.16	23.185			
1,900.0	1,890.7	1,890.7	1,890.7	4.4	3.3	-176.71	-7.1	-3.7	154.7	148.2	6.51	23.756			
2,000.0	1,990.0	1,990.0	1,990.0	4.6	3.4	-176.94	-7.1	-3.7	166.5	159.6	6.86	24.270			
2,100.0	2,089.3	2,089.3	2,089.3	4.9	3.6	-177.15	-7.1	-3.7	178.2	171.0	7.21	24.735			
2,200.0	2,188.6	2,188.6	2,188.6	5.2	3.8	-177.32	-7.1	-3.7	190.0	182.5	7.55	25.157			
2,300.0	2,287.9	2,287.9	2,287.9	5.5	3.9	-177.48	-7.1	-3.7	201.8	193.9	7.90	25.542			
2,400.0	2,387.2	2,387.2	2,387.2	5.7	4.1	-177.62	-7.1	-3.7	213.6	205.3	8.25	25.895			
2,500.0	2,486.5	2,486.5	2,486.5	6.0	4.3	-177.74	-7.1	-3.7	225.4	216.8	8.60	26.220			
2,600.0	2,585.8	2,585.8	2,585.8	6.3	4.5	-177.85	-7.1	-3.7	237.2	228.2	8.94	26.519			
2,700.0	2,685.1	2,685.1	2,685.1	6.5	4.6	-177.96	-7.1	-3.7	248.9	239.7	9.29	26.797			
2,800.0	2,784.4	2,784.4	2,784.4	6.8	4.8	-178.05	-7.1	-3.7	260.7	251.1	9.64	27.054			
2,900.0	2,883.7	2,883.7	2,883.7	7.1	5.0	-178.13	-7.1	-3.7	272.5	262.5	9.98	27.293			
3,000.0	2,983.0	2,983.0	2,983.0	7.3	5.2	-178.21	-7.1	-3.7	284.3	274.0	10.33	27.517			
3,100.0	3,082.3	3,082.3	3,082.3	7.6	5.3	-178.28	-7.1	-3.7	296.1	285.4	10.68	27.726			
3,200.0	3,181.6	3,181.6	3,181.6	7.9	5.5	-178.35	-7.1	-3.7	307.9	296.9	11.03	27.921			
3,300.0	3,280.9	3,280.9	3,280.9	8.1	5.7	-178.41	-7.1	-3.7	319.7	308.3	11.37	28.105			
3,400.0	3,380.2	3,380.2	3,380.2	8.4	5.9	-178.47	-7.1	-3.7	331.5	319.7	11.72	28.278			
3,500.0	3,479.7	3,479.7	3,479.7	8.6	6.0	-178.52	-7.1	-3.7	341.1	329.0	12.09	28.225			
3,600.0	3,579.6	3,579.6	3,579.6	8.8	6.2	-178.54	-7.1	-3.7	345.6	333.2	12.43	27.798			
3,700.0	3,679.6	3,679.6	3,679.6	8.9	6.4	54.94	-7.1	-3.7	345.9	333.1	12.78	27.077			
3,800.0	3,779.6	3,779.6	3,779.6	9.0	6.6	54.94	-7.1	-3.7	345.9	332.8	13.12	26.356			
3,900.0	3,879.6	3,879.6	3,879.6	9.2	6.7	54.94	-7.1	-3.7	345.9	332.4	13.47	25.673			
4,000.0	3,979.6	3,979.6	3,979.6	9.3	6.9	54.94	-7.1	-3.7	345.9	332.1	13.82	25.024			
4,100.0	4,079.6	4,079.6	4,079.6	9.4	7.1	54.94	-7.1	-3.7	345.9	331.7	14.17	24.407			
4,200.0	4,179.6	4,179.6	4,179.6	9.6	7.2	54.94	-7.1	-3.7	345.9	331.4	14.52	23.820			
4,300.0	4,279.6	4,279.6	4,279.6	9.7	7.4	54.94	-7.1	-3.7	345.9	331.1	14.87	23.261			
4,400.0	4,379.6	4,379.6	4,379.6	9.8	7.6	54.94	-7.1	-3.7	345.9	330.7	15.22	22.727			
4,500.0	4,479.6	4,479.6	4,479.6	10.0	7.8	54.94	-7.1	-3.7	345.9	330.4	15.57	22.217			
4,600.0	4,579.6	4,579.6	4,579.6	10.1	7.9	54.94	-7.1	-3.7	345.9	330.0	15.92	21.730			
4,700.0	4,679.6	4,679.6	4,679.6	10.2	8.1	54.94	-7.1	-3.7	345.9	329.7	16.27	21.263			
4,800.0	4,779.6	4,779.6	4,779.6	10.4	8.3	54.94	-7.1	-3.7	345.9	329.3	16.62	20.816			
4,900.0	4,879.6	4,879.6	4,879.6	10.5	8.5	54.94	-7.1	-3.7	345.9	329.0	16.97	20.388			
5,000.0	4,979.6	4,979.6	4,979.6	10.7	8.6	54.94	-7.1	-3.7	345.9	328.6	17.32	19.976			

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

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 44C-14
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.8ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.8ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 44C-14	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 #3	Offset TVD Reference:	Offset Datum

Offset Design S14-T7S-R96W - Nolte SWD 1-14 - DD - Plan #3													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		
5,100.0	5,079.6	5,079.6	5,079.6	10.8	8.8	54.94	-7.1	-3.7	345.9	328.3	17.67	19.581		
5,200.0	5,179.6	5,179.6	5,179.6	10.9	9.0	54.94	-7.1	-3.7	345.9	327.9	18.02	19.202		
5,300.0	5,279.6	5,279.6	5,279.6	11.1	9.2	54.94	-7.1	-3.7	345.9	327.6	18.36	18.837		
5,400.0	5,379.6	5,379.6	5,379.6	11.2	9.3	54.94	-7.1	-3.7	345.9	327.2	18.71	18.485		
5,500.0	5,479.6	5,479.6	5,479.6	11.4	9.5	54.94	-7.1	-3.7	345.9	326.9	19.06	18.147		
5,600.0	5,579.6	5,579.6	5,579.6	11.5	9.7	54.94	-7.1	-3.7	345.9	326.5	19.41	17.820		
5,700.0	5,679.6	5,679.6	5,679.6	11.7	9.9	54.94	-7.1	-3.7	345.9	326.2	19.76	17.505		
5,800.0	5,779.6	5,779.6	5,779.6	11.8	10.0	54.94	-7.1	-3.7	345.9	325.8	20.11	17.201		
5,825.7	5,805.3	5,805.3	5,805.3	11.9	10.1	54.94	-7.1	-3.7	345.9	325.7	20.20	17.125		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 44C-14
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.8ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.8ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 44C-14	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 #3	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 5117.8ft (Original Well Elev)
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000 °

Coordinates are relative to: Nolte 44C-14
Coordinate System is US State Plane 1927 (Exact solution), Colorado Central 502
Grid Convergence at Surface is: -1.62°

