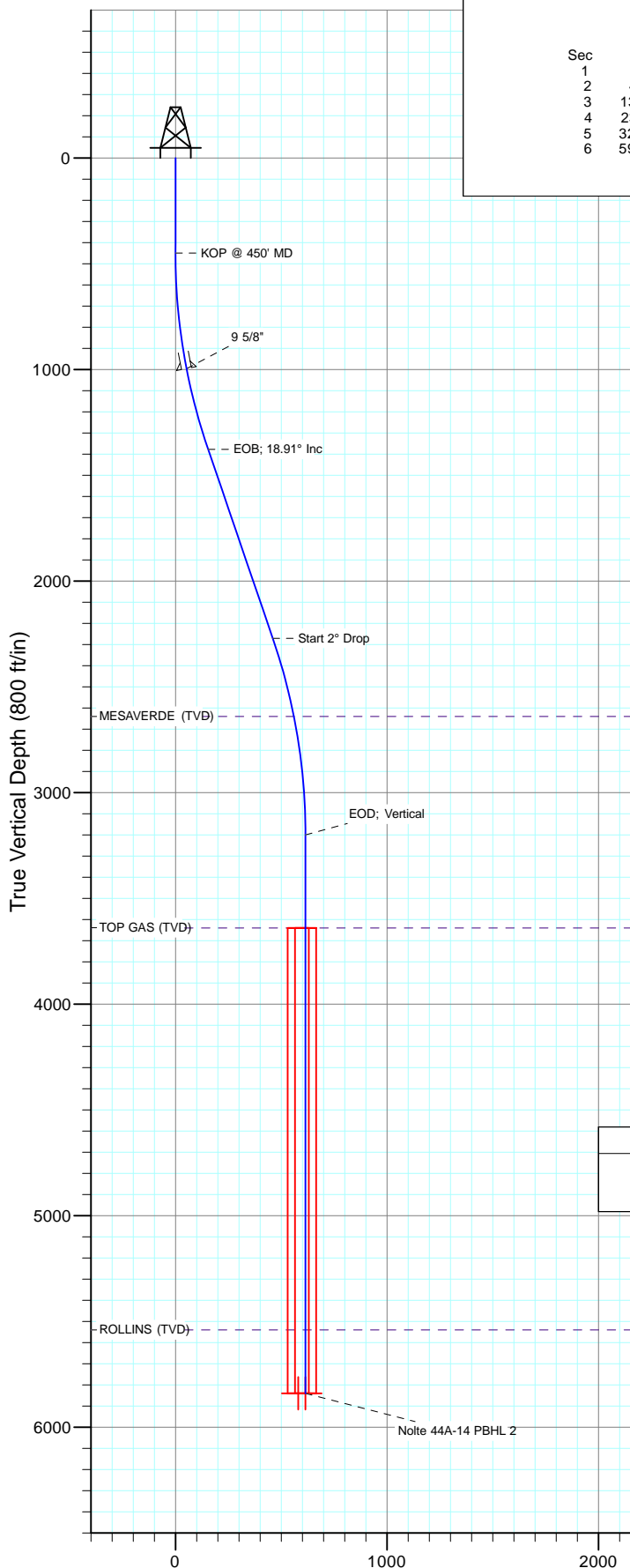


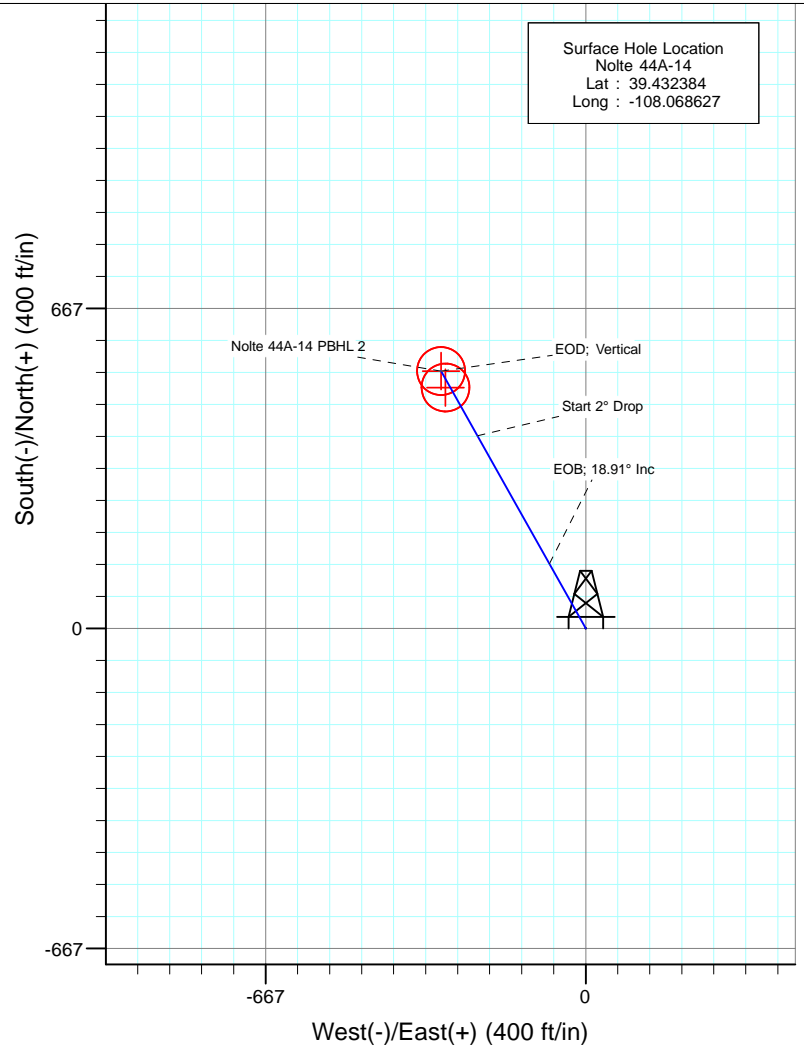


Project: Garfield County, CO
Site: S14-T7S-R96W
Well: Nolte 44A-14
Wellbore: DD
Design: Plan #3



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	450.0	0.00	0.00	450.0	0.0	0.0	0.00	0.00	0.0	
3	1395.4	18.91	330.67	1378.3	134.8	-75.7	2.00	330.67	154.6	
4	2339.7	18.91	330.67	2271.7	401.5	-225.6	0.00	0.00	460.5	
5	3285.1	0.00	0.00	3200.0	536.3	-301.4	2.00	180.00	615.1	
6	5925.1	0.00	0.00	5840.0	536.3	-301.4	0.00	0.00	615.1	Nolte 44A-14 PBHL 2



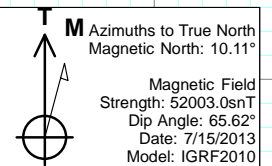
DESIGN TARGET DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Nolte 44A-14 PBHL	502.0	-292.1	593131.29	1274279.73	39.433762	-108.069661
Nolte 44A-14 PBHL 2	536.3	-301.4	593165.88	1274271.41	39.433856	-108.069694

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
2640.0	2721.5	MESAVERDE (TVD)
3640.0	3725.1	TOP GAS (TVD)
5540.0	5625.1	ROLLINS (TVD)

Plan #3
Nolte 44A-14
13xxx; LR
WELL @ 5117.8ft (Original Well Elev)
Ground Elevation @ 5091.2
NAD 1927 (NADCON CONUS)
Well Nolte 44A-14, True North



Vertical Section at 329.81° (800 ft/in)

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Nolte 44A-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 44A-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	Latitude:	39.432320
From:	Lat/Long	Easting:	1,274,372.48 ft	Longitude:	-108.069280
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	-1.62 °

Well	Nolte 44A-14					
Well Position	+N/-S	0.0 ft	Northing:	592,621.28 ft	Latitude:	39.432384
	+E/-W	0.0 ft	Easting:	1,274,557.49 ft	Longitude:	-108.068627
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	5,091.2 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) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	329.81

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	
450.0	0.00	0.00	450.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,395.4	18.91	330.67	1,378.3	134.8	-75.7	2.00	2.00	0.00	330.67	
2,339.7	18.91	330.67	2,271.7	401.5	-225.6	0.00	0.00	0.00	0.00	
3,285.1	0.00	0.00	3,200.0	536.3	-301.4	2.00	-2.00	0.00	180.00	
5,925.1	0.00	0.00	5,840.0	536.3	-301.4	0.00	0.00	0.00	0.00	Nolte 44A-14 PBHL 2

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Nolte 44A-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 44A-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	
450.0	0.00	0.00	450.0	0.0	0.0	0.0	0.00	0.00	KOP @ 450' MD
500.0	1.00	330.67	500.0	0.4	-0.2	0.4	2.00	2.00	
600.0	3.00	330.67	599.9	3.4	-1.9	3.9	2.00	2.00	
700.0	5.00	330.67	699.7	9.5	-5.3	10.9	2.00	2.00	
800.0	7.00	330.67	799.1	18.6	-10.5	21.4	2.00	2.00	
900.0	9.00	330.67	898.2	30.7	-17.3	35.3	2.00	2.00	
1,000.0	11.00	330.67	996.6	45.9	-25.8	52.6	2.00	2.00	9 5/8"
1,100.0	13.00	330.67	1,094.4	64.0	-36.0	73.4	2.00	2.00	
1,200.0	15.00	330.67	1,191.5	85.1	-47.8	97.6	2.00	2.00	
1,300.0	17.00	330.67	1,287.6	109.1	-61.3	125.2	2.00	2.00	
1,395.4	18.91	330.67	1,378.3	134.8	-75.7	154.6	2.00	2.00	EOB; 18.91° Inc
1,400.0	18.91	330.67	1,382.7	136.1	-76.5	156.1	0.00	0.00	
1,500.0	18.91	330.67	1,477.3	164.3	-92.3	188.5	0.00	0.00	
1,600.0	18.91	330.67	1,571.9	192.6	-108.2	220.9	0.00	0.00	
1,700.0	18.91	330.67	1,666.5	220.8	-124.1	253.3	0.00	0.00	
1,800.0	18.91	330.67	1,761.1	249.1	-140.0	285.7	0.00	0.00	
1,900.0	18.91	330.67	1,855.7	277.3	-155.8	318.1	0.00	0.00	
2,000.0	18.91	330.67	1,950.3	305.6	-171.7	350.5	0.00	0.00	
2,100.0	18.91	330.67	2,044.9	333.8	-187.6	382.9	0.00	0.00	
2,200.0	18.91	330.67	2,139.5	362.1	-203.5	415.3	0.00	0.00	
2,300.0	18.91	330.67	2,234.1	390.3	-219.3	447.7	0.00	0.00	
2,339.7	18.91	330.67	2,271.7	401.5	-225.6	460.5	0.00	0.00	Start 2° Drop
2,400.0	17.70	330.67	2,328.9	418.0	-234.9	479.5	2.00	-2.00	
2,500.0	15.70	330.67	2,424.7	443.1	-249.0	508.2	2.00	-2.00	
2,600.0	13.70	330.67	2,521.4	465.2	-261.4	533.6	2.00	-2.00	
2,700.0	11.70	330.67	2,619.0	484.4	-272.2	555.6	2.00	-2.00	
2,721.5	11.27	330.67	2,640.0	488.1	-274.3	559.8	2.00	-2.00	MESAVERDE (TVD)
2,800.0	9.70	330.67	2,717.2	500.6	-281.3	574.1	2.00	-2.00	
2,900.0	7.70	330.67	2,816.1	513.8	-288.7	589.3	2.00	-2.00	
3,000.0	5.70	330.67	2,915.4	523.9	-294.4	600.9	2.00	-2.00	
3,100.0	3.70	330.67	3,015.0	531.1	-298.4	609.1	2.00	-2.00	
3,200.0	1.70	330.67	3,114.9	535.2	-300.7	613.8	2.00	-2.00	
3,285.1	0.00	0.00	3,200.0	536.3	-301.4	615.1	2.00	-2.00	EOD; Vertical
3,300.0	0.00	0.00	3,214.9	536.3	-301.4	615.1	0.00	0.00	
3,400.0	0.00	0.00	3,314.9	536.3	-301.4	615.1	0.00	0.00	
3,500.0	0.00	0.00	3,414.9	536.3	-301.4	615.1	0.00	0.00	
3,600.0	0.00	0.00	3,514.9	536.3	-301.4	615.1	0.00	0.00	
3,700.0	0.00	0.00	3,614.9	536.3	-301.4	615.1	0.00	0.00	
3,725.1	0.00	0.00	3,640.0	536.3	-301.4	615.1	0.00	0.00	TOP GAS (TVD)
3,800.0	0.00	0.00	3,714.9	536.3	-301.4	615.1	0.00	0.00	
3,900.0	0.00	0.00	3,814.9	536.3	-301.4	615.1	0.00	0.00	
4,000.0	0.00	0.00	3,914.9	536.3	-301.4	615.1	0.00	0.00	
4,100.0	0.00	0.00	4,014.9	536.3	-301.4	615.1	0.00	0.00	
4,200.0	0.00	0.00	4,114.9	536.3	-301.4	615.1	0.00	0.00	
4,300.0	0.00	0.00	4,214.9	536.3	-301.4	615.1	0.00	0.00	
4,400.0	0.00	0.00	4,314.9	536.3	-301.4	615.1	0.00	0.00	
4,500.0	0.00	0.00	4,414.9	536.3	-301.4	615.1	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Nolte 44A-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 44A-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
4,600.0	0.00	0.00	4,514.9	536.3	-301.4	615.1	0.00	0.00	
4,700.0	0.00	0.00	4,614.9	536.3	-301.4	615.1	0.00	0.00	
4,800.0	0.00	0.00	4,714.9	536.3	-301.4	615.1	0.00	0.00	
4,900.0	0.00	0.00	4,814.9	536.3	-301.4	615.1	0.00	0.00	
5,000.0	0.00	0.00	4,914.9	536.3	-301.4	615.1	0.00	0.00	
5,100.0	0.00	0.00	5,014.9	536.3	-301.4	615.1	0.00	0.00	
5,200.0	0.00	0.00	5,114.9	536.3	-301.4	615.1	0.00	0.00	
5,300.0	0.00	0.00	5,214.9	536.3	-301.4	615.1	0.00	0.00	
5,400.0	0.00	0.00	5,314.9	536.3	-301.4	615.1	0.00	0.00	
5,500.0	0.00	0.00	5,414.9	536.3	-301.4	615.1	0.00	0.00	
5,600.0	0.00	0.00	5,514.9	536.3	-301.4	615.1	0.00	0.00	
5,625.1	0.00	0.00	5,540.0	536.3	-301.4	615.1	0.00	0.00	ROLLINS (TVD)
5,700.0	0.00	0.00	5,614.9	536.3	-301.4	615.1	0.00	0.00	
5,800.0	0.00	0.00	5,714.9	536.3	-301.4	615.1	0.00	0.00	
5,900.0	0.00	0.00	5,814.9	536.3	-301.4	615.1	0.00	0.00	
5,925.1	0.00	0.00	5,840.0	536.3	-301.4	615.1	0.00	0.00	PBHL @ 5,925' 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 44A-14 PBHL	0.00	0.00	5,840.0	502.0	-292.1	593,131.29	1,274,279.73	39.433762	-108.069661
- plan misses target center by 35.6ft at 5925.1ft MD (5840.0 TVD, 536.3 N, -301.4 E)									
- Circle (radius 50.0)									
Nolte 44A-14 PBHL 2	0.00	0.00	5,840.0	536.3	-301.4	593,165.88	1,274,271.41	39.433856	-108.069694
- plan hits target center									
- Circle (radius 50.0)									

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
1,000.0	996.6	9 5/8"	9.625	12.250

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
2,721.5	2,640.0	MESAVERDE (TVD)			
3,725.1	3,640.0	TOP GAS (TVD)			
5,625.1	5,540.0	ROLLINS (TVD)			

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Nolte 44A-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 44A-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)	
450.0	450.0	0.0	0.0	KOP @ 450' MD
1,395.4	1,378.3	134.8	-75.7	EOB; 18.91° Inc
2,339.7	2,271.7	401.5	-225.6	Start 2° Drop
3,285.1	3,200.0	536.3	-301.4	EOD; Vertical
5,925.1	5,840.0	536.3	-301.4	PBHL @ 5,925' MD

Caerus Oil & Gas (NAD 27)

Garfield County, CO

S14-T7S-R96W

Nolte 44A-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 44A-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 44A-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	9/9/2013		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	5,925.1	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	13.437	CC, ES
Nolte 11A-24 - DD - Plan #3	400.0	399.3	15.2	13.9	11.681	SF
Nolte 11B-24 - DD - Plan #3	200.0	200.0	18.9	18.3	31.204	CC, ES
Nolte 11B-24 - DD - Plan #3	400.0	397.7	28.0	26.7	21.018	SF
Nolte 11C-24 - DD - Plan #3	244.3	234.6	26.0	25.2	34.217	CC, ES
Nolte 11C-24 - DD - Plan #3	400.0	388.6	30.1	28.8	22.955	SF
Nolte 13A-13 - DD - Plan #3	200.0	200.0	40.0	39.4	66.111	CC, ES
Nolte 13A-13 - DD - Plan #3	500.0	491.6	62.7	61.0	38.247	SF
Nolte 13B-13 - DD - Plan #3	233.4	233.4	32.0	31.3	44.358	CC, ES
Nolte 13B-13 - DD - Plan #3	500.0	494.6	47.6	46.0	28.969	SF
Nolte 13C-13 - DD - Plan #3	200.0	199.8	41.2	40.6	68.239	CC, ES
Nolte 13C-13 - DD - Plan #3	500.0	491.2	63.9	62.3	39.047	SF
Nolte 13D-13 - DD - Plan #3	300.0	300.0	33.5	32.6	35.152	CC, ES
Nolte 13D-13 - DD - Plan #3	500.0	495.9	43.5	41.8	26.421	SF
Nolte 14A-13 - DD - Plan #3	400.0	400.0	26.0	24.7	19.949	CC, ES
Nolte 14A-13 - DD - Plan #3	500.0	498.7	28.3	26.7	17.164	SF
Nolte 14B-13 - DD - Plan #3	500.0	500.0	18.8	17.2	11.409	CC
Nolte 14B-13 - DD - Plan #3	521.5	521.5	18.9	17.1	10.911	ES
Nolte 14B-13 - DD - Plan #3	600.0	599.5	19.8	17.8	9.868	SF
Nolte 14C-13 - DD - Plan #3	400.0	400.0	12.9	11.6	9.941	CC
Nolte 14C-13 - DD - Plan #3	500.0	500.0	13.1	11.4	7.916	ES, SF
Nolte 14D-13 - DD - Plan #3	400.0	400.0	10.0	8.7	7.679	CC, ES, SF
Nolte 43A-14 - DD - Plan #3	300.0	300.0	24.0	23.0	25.140	CC, ES
Nolte 43A-14 - DD - Plan #3	500.0	497.4	32.4	30.7	19.556	SF
Nolte 43B-14 - DD - Plan #3	334.0	334.0	16.0	14.9	14.901	CC, ES
Nolte 43B-14 - DD - Plan #3	500.0	498.8	20.5	18.8	12.377	SF
Nolte 43C-14 - DD - Plan #3	400.0	400.0	8.0	6.7	6.138	CC, ES
Nolte 43C-14 - DD - Plan #3	500.0	499.6	9.6	8.0	5.834	SF
Nolte 44B-14 - DD - Plan #3	400.0	400.0	8.0	6.7	6.139	CC
Nolte 44B-14 - DD - Plan #3	500.0	500.0	8.2	6.6	4.992	ES, SF
Nolte 44C-14 - DD - Plan #3	400.0	400.0	16.0	14.7	12.274	CC, ES
Nolte 44C-14 - DD - Plan #3	500.0	499.4	17.9	16.3	10.823	SF
Nolte SWD 1-14 - DD - Plan #3	400.0	400.0	24.0	22.7	18.403	CC
Nolte SWD 1-14 - DD - Plan #3	500.0	500.0	24.2	22.6	14.663	ES
Nolte SWD 1-14 - DD - Plan #3	600.0	599.9	26.3	24.3	13.144	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 44A-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 44A-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					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)	Total Uncertainty Axis			
0.0	0.0	0.0	0.0	0.0	0.0	156.21	-11.7	5.2	12.8					
100.0	100.0	100.0	100.0	0.1	0.1	156.21	-11.7	5.2	12.8	12.6	0.26	50.123		
200.0	200.0	200.0	200.0	0.3	0.3	156.21	-11.7	5.2	12.8	12.2	0.60	21.192		
300.0	300.0	300.0	300.0	0.5	0.5	156.21	-11.7	5.2	12.8	11.9	0.95	13.437 CC, ES		
400.0	400.0	399.3	399.3	0.7	0.7	152.45	-13.5	7.0	15.2	13.9	1.31	11.681 SF		
500.0	500.0	498.0	497.7	0.8	0.9	175.52	-18.8	12.6	23.2	21.5	1.65	14.042		
600.0	599.9	595.1	594.0	1.0	1.1	171.78	-27.4	21.7	39.3	37.3	1.99	19.695		
700.0	699.7	689.6	686.9	1.2	1.5	170.11	-39.0	33.9	63.7	61.3	2.33	27.318		
800.0	799.1	780.5	775.4	1.4	1.8	169.34	-53.1	48.8	96.0	93.3	2.66	36.100		
900.0	898.2	867.0	858.7	1.7	2.3	168.93	-69.2	65.8	135.8	132.8	2.98	45.612		
1,000.0	996.6	948.6	936.2	2.0	2.8	168.66	-86.7	84.4	182.7	179.4	3.29	55.608		
1,100.0	1,094.4	1,024.8	1,007.5	2.4	3.3	168.45	-105.2	103.8	236.1	232.5	3.58	65.936		
1,200.0	1,191.5	1,100.0	1,076.8	2.8	3.8	168.26	-125.3	125.0	295.4	291.6	3.87	76.351		
1,300.0	1,287.6	1,160.6	1,131.8	3.3	4.3	168.03	-142.8	143.6	360.2	356.1	4.14	87.036		
1,400.0	1,382.7	1,220.1	1,184.9	3.9	4.8	167.80	-161.2	163.0	429.9	425.5	4.40	97.629		
1,500.0	1,477.3	1,275.2	1,233.4	4.4	5.3	167.93	-179.2	182.0	502.8	498.1	4.69	107.109		
1,600.0	1,571.9	1,327.0	1,278.3	5.0	5.8	167.99	-197.1	200.9	577.6	572.6	4.98	115.956		
1,700.0	1,666.5	1,375.9	1,319.9	5.6	6.3	168.02	-214.7	219.4	654.1	648.8	5.26	124.259		
1,800.0	1,761.1	1,424.2	1,360.4	6.1	6.8	168.03	-232.8	238.5	732.1	726.5	5.55	132.022		
1,900.0	1,855.7	1,486.1	1,412.0	6.7	7.4	168.03	-256.2	263.3	810.7	804.8	5.85	138.583		
2,000.0	1,950.3	1,547.9	1,463.6	7.3	8.1	168.02	-279.7	288.1	889.2	883.1	6.16	144.470		
2,100.0	2,044.9	1,609.8	1,515.2	7.9	8.7	168.02	-303.1	312.8	967.8	961.4	6.46	149.823		
2,200.0	2,139.5	1,671.6	1,566.8	8.5	9.3	168.02	-326.6	337.6	1,046.4	1,039.6	6.77	154.651		
2,300.0	2,234.1	1,733.5	1,618.4	9.1	10.0	168.02	-350.0	362.4	1,125.0	1,117.9	7.07	159.064		
2,400.0	2,328.9	1,795.8	1,670.4	9.7	10.6	168.32	-373.7	387.3	1,203.2	1,195.8	7.41	162.435		
2,500.0	2,424.7	1,860.6	1,724.4	10.2	11.3	168.73	-398.2	413.2	1,279.3	1,271.6	7.76	164.785		
2,600.0	2,521.4	1,927.9	1,780.6	10.6	12.0	169.06	-423.8	440.2	1,353.3	1,345.1	8.12	166.600		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 44A-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 44A-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			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	175.54	-18.8	1.5	18.9					
100.0	100.0	100.0	100.0	0.1	0.1	175.54	-18.8	1.5	18.9	18.6	0.26	73.774		
200.0	200.0	200.0	200.0	0.3	0.3	175.54	-18.8	1.5	18.9	18.3	0.60	31.204	CC, ES	
300.0	300.0	299.1	299.1	0.5	0.5	171.55	-20.8	3.1	21.1	20.1	0.96	21.964		
400.0	400.0	397.7	397.3	0.7	0.7	163.50	-26.7	7.9	28.0	26.7	1.33	21.018	SF	
500.0	500.0	495.1	494.0	0.8	1.0	-174.20	-36.5	15.8	40.6	39.0	1.66	24.541		
600.0	599.9	590.4	587.7	1.0	1.3	-178.89	-49.6	26.6	61.5	59.5	2.00	30.810		
700.0	699.7	682.4	677.3	1.2	1.7	178.39	-65.8	39.7	90.6	88.3	2.32	38.971		
800.0	799.1	770.3	761.9	1.4	2.2	176.81	-84.3	54.8	127.5	124.9	2.64	48.255		
900.0	898.2	853.5	840.8	1.7	2.7	175.83	-104.7	71.4	171.7	168.8	2.95	58.269		
1,000.0	996.6	931.5	913.7	2.0	3.2	175.19	-126.1	88.9	222.7	219.5	3.24	68.795		
1,100.0	1,094.4	1,000.0	976.8	2.4	3.7	174.75	-146.8	105.7	280.0	276.5	3.51	79.872		
1,200.0	1,191.5	1,070.8	1,041.0	2.8	4.3	174.37	-170.1	124.7	342.8	339.1	3.78	90.806		
1,300.0	1,287.6	1,132.1	1,095.5	3.3	4.8	174.07	-191.7	142.3	410.9	406.9	4.02	102.117		
1,400.0	1,382.7	1,187.7	1,144.3	3.9	5.3	173.80	-212.5	159.2	483.6	479.3	4.26	113.523		
1,500.0	1,477.3	1,239.2	1,188.7	4.4	5.8	173.76	-232.7	175.7	559.2	554.7	4.52	123.609		
1,600.0	1,571.9	1,300.0	1,240.2	5.0	6.4	173.70	-257.7	196.1	636.7	631.9	4.80	132.660		
1,700.0	1,666.5	1,333.0	1,267.7	5.6	6.8	173.67	-271.8	207.6	715.4	710.3	5.04	142.039		
1,800.0	1,761.1	1,375.8	1,302.9	6.1	7.2	173.63	-290.7	222.9	795.6	790.3	5.29	150.508		
1,900.0	1,855.7	1,416.2	1,335.6	6.7	7.7	173.58	-309.0	237.9	877.1	871.6	5.53	158.552		
2,000.0	1,950.3	1,454.2	1,366.0	7.3	8.1	173.54	-326.8	252.3	959.8	954.0	5.78	166.183		
2,100.0	2,044.9	1,500.0	1,401.9	7.9	8.7	173.49	-348.8	270.3	1,043.6	1,037.6	6.03	173.128		
2,200.0	2,139.5	1,524.0	1,420.4	8.5	9.0	173.46	-360.6	279.9	1,128.2	1,122.0	6.25	180.511		
2,300.0	2,234.1	1,564.1	1,451.1	9.1	9.5	173.41	-380.7	296.2	1,213.8	1,207.3	6.50	186.855		
2,400.0	2,328.9	1,616.2	1,490.8	9.7	10.1	173.57	-406.8	317.5	1,299.2	1,292.4	6.79	191.452		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 44A-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 44A-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					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)	Total Uncertainty Axis			
0.0	0.0	0.0	0.0	0.0	0.0	-175.08	-25.9	-2.2	27.7					
100.0	100.0	90.3	90.3	0.1	0.1	-175.08	-25.9	-2.2	26.0	25.7	0.26	100.407		
200.0	200.0	190.3	190.3	0.3	0.3	-175.08	-25.9	-2.2	26.0	25.4	0.61	42.963		
244.3	244.3	234.6	234.6	0.4	0.4	-175.08	-25.9	-2.2	26.0	25.2	0.76	34.217 CC, ES		
300.0	300.0	289.9	289.9	0.5	0.5	-175.64	-26.2	-2.0	26.3	25.4	0.95	27.603		
400.0	400.0	388.6	388.5	0.7	0.7	178.93	-30.1	0.6	30.1	28.8	1.31	22.955 SF		
500.0	500.0	486.5	485.9	0.8	0.9	-159.66	-38.1	5.9	39.2	37.5	1.66	23.603		
600.0	599.9	582.6	580.9	1.0	1.2	-166.99	-49.9	13.8	56.4	54.4	2.01	28.119		
700.0	699.7	675.7	672.2	1.2	1.5	-171.95	-65.2	24.0	82.2	79.9	2.34	35.149		
800.0	799.1	765.1	758.9	1.4	1.9	-175.04	-83.3	36.1	116.2	113.5	2.66	43.683		
900.0	898.2	849.9	840.1	1.7	2.4	-176.98	-103.6	49.7	157.7	154.7	2.97	53.179		
1,000.0	996.6	929.7	915.4	2.0	2.9	-178.25	-125.4	64.3	206.3	203.0	3.26	63.338		
1,100.0	1,094.4	1,000.0	980.9	2.4	3.4	-179.08	-146.8	78.6	261.4	257.9	3.53	74.144		
1,200.0	1,191.5	1,072.7	1,047.5	2.8	3.9	-179.74	-170.9	94.8	322.3	318.6	3.80	84.931		
1,300.0	1,287.6	1,135.8	1,104.4	3.3	4.4	179.80	-193.6	109.9	388.7	384.7	4.04	96.161		
1,400.0	1,382.7	1,200.0	1,161.3	3.9	5.0	179.41	-218.3	126.4	459.9	455.6	4.28	107.373		
1,500.0	1,477.3	1,246.4	1,201.8	4.4	5.4	179.18	-237.1	139.0	534.1	529.6	4.53	117.839		
1,600.0	1,571.9	1,300.0	1,247.9	5.0	5.9	178.96	-259.9	154.2	610.2	605.4	4.79	127.444		
1,700.0	1,666.5	1,343.4	1,284.7	5.6	6.4	178.80	-279.1	167.1	687.8	682.8	5.03	136.711		
1,800.0	1,761.1	1,400.0	1,331.8	6.1	6.9	178.62	-305.1	184.5	767.1	761.8	5.29	145.024		
1,900.0	1,855.7	1,429.4	1,355.9	6.7	7.3	178.54	-319.1	193.8	847.5	842.0	5.51	153.765		
2,000.0	1,950.3	1,468.7	1,387.7	7.3	7.7	178.43	-338.3	206.7	929.2	923.5	5.75	161.719		
2,100.0	2,044.9	1,500.0	1,412.6	7.9	8.0	178.35	-354.0	217.1	1,012.2	1,006.2	5.97	169.617		
2,200.0	2,139.5	1,540.9	1,444.8	8.5	8.5	178.26	-374.9	231.2	1,096.1	1,089.8	6.20	176.649		
2,300.0	2,234.1	1,574.0	1,470.5	9.1	8.9	178.19	-392.4	242.8	1,180.9	1,174.5	6.43	183.687		
2,400.0	2,328.9	1,600.0	1,490.4	9.7	9.2	178.20	-406.3	252.1	1,266.4	1,259.7	6.67	189.854		
2,500.0	2,424.7	1,637.3	1,518.5	10.2	9.7	178.22	-426.7	265.7	1,351.0	1,344.0	6.95	194.519		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 44A-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 44A-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	27.52	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	156.365		
200.0	200.0	200.0	200.0	0.3	0.3	27.52	35.5	18.5	40.0	39.4	0.60	66.111 CC, ES		
300.0	300.0	297.9	297.8	0.5	0.5	27.76	37.6	19.8	42.5	41.6	0.95	44.694		
400.0	400.0	395.2	394.9	0.7	0.7	28.33	43.9	23.7	50.2	48.9	1.31	38.448		
500.0	500.0	491.6	490.5	0.8	1.0	58.52	54.4	30.1	62.7	61.0	1.64	38.247 SF		
600.0	599.9	586.8	584.1	1.0	1.3	60.86	68.7	38.9	78.6	76.6	1.98	39.630		
700.0	699.7	680.4	675.4	1.2	1.7	63.90	86.6	50.0	98.0	95.6	2.34	41.827		
800.0	799.1	772.3	763.7	1.4	2.2	66.96	107.9	63.1	121.0	118.2	2.74	44.228		
900.0	898.2	862.1	848.9	1.7	2.7	69.75	132.2	78.0	147.7	144.5	3.18	46.398		
1,000.0	996.6	949.7	930.6	2.0	3.3	72.14	159.2	94.6	178.0	174.3	3.70	48.102		
1,100.0	1,094.4	1,034.9	1,008.5	2.4	4.0	74.14	188.4	112.6	211.9	207.6	4.30	49.296		
1,200.0	1,191.5	1,117.6	1,082.7	2.8	4.7	75.76	219.6	131.8	249.4	244.4	4.98	50.053		
1,300.0	1,287.6	1,200.0	1,154.9	3.3	5.4	77.10	253.4	152.5	290.1	284.3	5.76	50.402		
1,400.0	1,382.7	1,275.2	1,219.3	3.9	6.1	78.08	286.5	172.9	333.9	327.3	6.59	50.658		
1,500.0	1,477.3	1,350.1	1,281.9	4.4	6.9	79.58	321.6	194.5	381.1	373.6	7.51	50.747		
1,600.0	1,571.9	1,422.4	1,340.6	5.0	7.7	80.57	357.4	216.5	431.4	423.0	8.43	51.189		
1,700.0	1,666.5	1,500.0	1,401.9	5.6	8.6	81.24	398.0	241.5	484.8	475.4	9.38	51.680		
1,800.0	1,761.1	1,558.8	1,447.0	6.1	9.3	81.55	430.1	261.2	540.7	530.4	10.25	52.753		
1,900.0	1,855.7	1,622.9	1,494.8	6.7	10.1	81.72	466.4	283.6	599.2	588.1	11.14	53.797		
2,000.0	1,950.3	1,695.8	1,547.9	7.3	11.0	81.78	509.0	309.8	659.6	647.5	12.07	54.664		
2,100.0	2,044.9	1,775.4	1,605.8	7.9	12.0	81.83	555.6	338.4	720.2	707.2	13.03	55.270		
2,200.0	2,139.5	1,854.9	1,663.6	8.5	13.1	81.87	602.1	367.0	780.8	766.8	14.00	55.778		
2,300.0	2,234.1	1,934.5	1,721.4	9.1	14.1	81.91	648.7	395.7	841.4	826.4	14.97	56.210		
2,400.0	2,328.9	2,014.0	1,779.1	9.7	15.1	82.80	695.2	424.3	902.0	885.9	16.09	56.055		
2,500.0	2,424.7	2,093.2	1,836.7	10.2	16.1	84.08	741.5	452.8	963.0	945.7	17.26	55.802		
2,600.0	2,521.4	2,171.9	1,893.9	10.6	17.1	85.15	787.6	481.1	1,024.3	1,005.9	18.36	55.783		
2,700.0	2,619.0	2,250.1	1,950.7	11.0	18.1	86.07	833.4	509.3	1,085.9	1,066.4	19.40	55.963		
2,800.0	2,717.2	2,327.7	2,007.1	11.3	19.1	86.85	878.8	537.2	1,147.7	1,127.3	20.38	56.315		
2,900.0	2,816.1	2,404.6	2,063.0	11.6	20.1	87.53	923.8	564.9	1,209.9	1,188.6	21.29	56.819		
3,000.0	2,915.4	2,480.7	2,118.2	11.9	21.1	88.12	968.3	592.3	1,272.4	1,250.3	22.15	57.459		
3,100.0	3,015.0	2,555.8	2,172.9	12.0	22.0	88.65	1,012.3	619.3	1,335.3	1,312.4	22.93	58.223		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 44A-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 44A-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	27.51	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	0.26	125.167		
200.0	200.0	200.0	200.0	0.3	0.3	27.51	28.4	14.8	32.0	31.4	0.60	52.900		
233.4	233.4	233.4	233.4	0.4	0.4	27.51	28.4	14.8	32.0	31.3	0.72	44.358	CC, ES	
300.0	300.0	299.2	299.2	0.5	0.5	27.71	28.9	15.2	32.6	31.7	0.95	34.250		
400.0	400.0	397.3	397.1	0.7	0.7	29.05	32.9	18.3	37.7	36.4	1.30	28.982		
500.0	500.0	494.6	494.0	0.8	0.9	60.56	40.7	24.4	47.6	46.0	1.64	28.969	SF	
600.0	599.9	590.9	589.1	1.0	1.2	64.67	52.3	33.4	61.3	59.3	1.99	30.783		
700.0	699.7	685.6	681.9	1.2	1.6	69.34	67.5	45.1	78.9	76.5	2.35	33.527		
800.0	799.1	778.6	771.9	1.4	2.0	73.63	85.8	59.3	100.6	97.9	2.75	36.596		
900.0	898.2	869.5	858.7	1.7	2.5	77.23	107.1	75.8	126.7	123.5	3.21	39.510		
1,000.0	996.6	958.0	941.9	2.0	3.1	80.13	130.9	94.3	156.9	153.2	3.74	41.995		
1,100.0	1,094.4	1,044.0	1,021.3	2.4	3.7	82.39	156.9	114.4	191.3	187.0	4.35	43.974		
1,200.0	1,191.5	1,127.3	1,096.8	2.8	4.4	84.14	184.8	136.1	229.6	224.6	5.05	45.498		
1,300.0	1,287.6	1,207.7	1,168.1	3.3	5.1	85.44	214.2	158.8	271.6	265.8	5.82	46.665		
1,400.0	1,382.7	1,285.3	1,235.4	3.9	5.8	86.44	244.8	182.5	317.2	310.5	6.67	47.537		
1,500.0	1,477.3	1,360.2	1,298.7	4.4	6.5	87.91	276.3	207.0	366.1	358.5	7.59	48.213		
1,600.0	1,571.9	1,432.3	1,358.2	5.0	7.3	88.83	308.4	231.9	418.1	409.5	8.51	49.121		
1,700.0	1,666.5	1,509.2	1,420.2	5.6	8.2	89.44	344.4	259.8	472.5	463.1	9.46	49.958		
1,800.0	1,761.1	1,592.7	1,487.3	6.1	9.1	89.95	383.7	290.2	527.4	516.9	10.45	50.478		
1,900.0	1,855.7	1,676.2	1,554.5	6.7	10.0	90.37	423.0	320.7	582.2	570.8	11.45	50.870		
2,000.0	1,950.3	1,759.8	1,621.6	7.3	10.9	90.71	462.2	351.1	637.1	624.7	12.45	51.176		
2,100.0	2,044.9	1,843.3	1,688.8	7.9	11.8	91.00	501.5	381.6	692.0	678.5	13.46	51.418		
2,200.0	2,139.5	1,926.9	1,755.9	8.5	12.8	91.24	540.8	412.0	746.9	732.4	14.47	51.613		
2,300.0	2,234.1	2,010.4	1,823.1	9.1	13.7	91.46	580.1	442.5	801.8	786.3	15.49	51.773		
2,400.0	2,328.9	2,094.0	1,890.3	9.7	14.6	92.38	619.3	472.9	856.7	840.1	16.62	51.546		
2,500.0	2,424.7	2,177.6	1,957.5	10.2	15.6	93.57	658.7	503.4	911.5	893.7	17.77	51.308		
2,600.0	2,521.4	2,261.2	2,024.7	10.6	16.5	94.51	698.0	533.9	966.1	947.3	18.84	51.280		
2,700.0	2,619.0	2,344.7	2,091.8	11.0	17.4	95.26	737.2	564.3	1,020.5	1,000.7	19.84	51.432		
2,800.0	2,717.2	2,428.0	2,158.8	11.3	18.4	95.84	776.4	594.7	1,074.8	1,054.0	20.77	51.742		
2,900.0	2,816.1	2,510.9	2,225.5	11.6	19.3	96.27	815.4	624.9	1,128.9	1,107.3	21.63	52.199		
3,000.0	2,915.4	2,593.5	2,291.8	11.9	20.2	96.59	854.2	655.0	1,182.9	1,160.5	22.41	52.791		
3,100.0	3,015.0	2,675.5	2,357.7	12.0	21.1	96.82	892.7	684.8	1,236.8	1,213.7	23.11	53.513		
3,200.0	3,114.9	2,756.9	2,423.1	12.2	22.0	96.96	931.0	714.5	1,290.7	1,267.0	23.74	54.362		
3,300.0	3,214.9	2,837.5	2,488.0	12.2	22.9	67.52	968.9	743.9	1,344.7	1,320.4	24.25	55.442		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 44A-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 44A-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						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	41.57	30.8	27.3	41.2					
100.0	100.0	99.8	99.8	0.1	0.1	41.57	30.8	27.3	41.2	41.0	0.25	161.657		
200.0	200.0	199.8	199.8	0.3	0.3	41.57	30.8	27.3	41.2	40.6	0.60	68.239	CC, ES	
300.0	300.0	297.6	297.6	0.5	0.5	41.82	32.6	29.1	43.8	42.8	0.95	46.019		
400.0	400.0	394.9	394.6	0.7	0.7	42.43	37.7	34.5	51.4	50.1	1.30	39.406		
500.0	500.0	491.2	490.1	0.8	1.0	72.69	46.2	43.3	63.9	62.3	1.64	39.047	SF	
600.0	599.9	586.2	583.5	1.0	1.3	75.21	57.8	55.3	80.6	78.7	1.98	40.667		
700.0	699.7	679.3	674.3	1.2	1.7	78.42	72.4	70.4	101.6	99.3	2.34	43.338		
800.0	799.1	770.4	761.9	1.4	2.2	81.56	89.5	88.2	127.0	124.3	2.74	46.326		
900.0	898.2	858.9	845.9	1.7	2.7	84.31	109.0	108.3	156.9	153.7	3.19	49.137		
1,000.0	996.6	944.8	926.1	2.0	3.3	86.59	130.4	130.5	191.1	187.4	3.71	51.513		
1,100.0	1,094.4	1,027.8	1,002.1	2.4	3.9	88.41	153.5	154.4	229.6	225.3	4.30	53.397		
1,200.0	1,191.5	1,107.7	1,073.9	2.8	4.6	89.81	177.8	179.6	272.2	267.3	4.96	54.855		
1,300.0	1,287.6	1,189.5	1,146.0	3.3	5.3	91.01	204.7	207.5	318.4	312.7	5.71	55.733		
1,400.0	1,382.7	1,276.8	1,222.7	3.9	6.1	92.36	233.6	237.5	365.6	359.0	6.57	55.658		
1,500.0	1,477.3	1,363.8	1,299.1	4.4	6.9	94.43	262.5	267.4	413.2	405.7	7.51	55.028		
1,600.0	1,571.9	1,450.8	1,375.5	5.0	7.6	96.09	291.4	297.4	461.2	452.8	8.47	54.446		
1,700.0	1,666.5	1,537.8	1,451.9	5.6	8.4	97.43	320.3	327.3	509.5	500.0	9.45	53.930		
1,800.0	1,761.1	1,624.8	1,528.4	6.1	9.2	98.54	349.2	357.2	557.9	547.5	10.43	53.482		
1,900.0	1,855.7	1,711.8	1,604.8	6.7	10.0	99.48	378.1	387.1	606.5	595.1	11.42	53.093		
2,000.0	1,950.3	1,798.8	1,681.2	7.3	10.7	100.28	406.9	417.1	655.2	642.8	12.42	52.755		
2,100.0	2,044.9	1,885.8	1,757.6	7.9	11.5	100.97	435.8	447.0	703.9	690.5	13.42	52.460		
2,200.0	2,139.5	1,972.9	1,834.0	8.5	12.3	101.57	464.7	476.9	752.8	738.3	14.42	52.202		
2,300.0	2,234.1	2,059.9	1,910.5	9.1	13.1	102.10	493.6	506.9	801.7	786.2	15.42	51.975		
2,400.0	2,328.9	2,147.0	1,987.0	9.7	13.9	103.18	522.5	536.8	850.5	834.0	16.51	51.505		
2,500.0	2,424.7	2,234.6	2,063.9	10.2	14.6	104.39	551.6	567.0	898.6	881.1	17.59	51.086		
2,600.0	2,521.4	2,322.6	2,141.2	10.6	15.4	105.33	580.8	597.2	946.1	927.5	18.60	50.863		
2,700.0	2,619.0	2,410.9	2,218.8	11.0	16.2	106.04	610.1	627.6	992.7	973.2	19.54	50.807		
2,800.0	2,717.2	2,499.5	2,296.6	11.3	17.0	106.53	639.5	658.1	1,038.5	1,018.1	20.40	50.900		
2,900.0	2,816.1	2,588.1	2,374.5	11.6	17.8	106.86	669.0	688.6	1,083.5	1,062.3	21.19	51.128		
3,000.0	2,915.4	2,676.8	2,452.3	11.9	18.6	107.02	698.4	719.1	1,127.8	1,105.9	21.90	51.487		
3,100.0	3,015.0	2,765.3	2,530.1	12.0	19.4	107.06	727.8	749.5	1,171.3	1,148.7	22.54	51.974		
3,200.0	3,114.9	2,853.6	2,607.6	12.2	20.2	106.97	757.1	779.9	1,214.2	1,191.1	23.09	52.588		
3,300.0	3,214.9	2,941.6	2,684.9	12.2	21.0	77.32	786.3	810.2	1,256.5	1,232.9	23.54	53.385		
3,400.0	3,314.9	3,029.4	2,762.0	12.3	21.8	76.26	815.5	840.4	1,298.8	1,275.0	23.79	54.594		
3,500.0	3,414.9	3,237.4	2,949.0	12.4	23.4	74.17	878.6	905.8	1,338.4	1,314.2	24.18	55.354		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 44A-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 44A-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			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	44.88	23.7	23.6	33.5					
100.0	100.0	100.0	100.0	0.1	0.1	44.88	23.7	23.6	33.5	33.2	0.25	131.391		
200.0	200.0	200.0	200.0	0.3	0.3	44.88	23.7	23.6	33.5	32.9	0.60	55.465		
300.0	300.0	300.0	300.0	0.5	0.5	44.88	23.7	23.6	33.5	32.6	0.95	35.152 CC, ES		
400.0	400.0	398.2	398.2	0.7	0.7	45.77	25.1	25.8	36.0	34.7	1.30	27.712		
500.0	500.0	495.9	495.6	0.8	0.9	77.62	29.1	32.1	43.5	41.8	1.65	26.421 SF		
600.0	599.9	592.6	591.5	1.0	1.1	82.90	35.7	42.5	55.6	53.6	1.99	27.878		
700.0	699.7	687.7	685.0	1.2	1.4	88.76	44.7	56.8	72.9	70.5	2.36	30.922		
800.0	799.1	780.6	775.6	1.4	1.8	93.81	55.9	74.5	95.7	93.0	2.75	34.760		
900.0	898.2	871.0	862.5	1.7	2.3	97.73	69.1	95.2	124.1	120.9	3.20	38.762		
1,000.0	996.6	958.5	945.5	2.0	2.8	100.65	83.9	118.6	157.8	154.1	3.71	42.535		
1,100.0	1,094.4	1,042.8	1,024.2	2.4	3.4	102.76	100.0	144.1	196.7	192.4	4.28	45.898		
1,200.0	1,191.5	1,123.6	1,098.3	2.8	4.0	104.24	117.3	171.4	240.3	235.4	4.92	48.856		
1,300.0	1,287.6	1,210.9	1,177.5	3.3	4.7	105.65	136.9	202.4	287.1	281.4	5.65	50.846		
1,400.0	1,382.7	1,297.9	1,256.5	3.9	5.3	107.04	156.5	233.2	335.0	328.6	6.44	52.012		
1,500.0	1,477.3	1,384.5	1,335.0	4.4	6.0	109.09	175.9	264.0	383.8	376.5	7.30	52.563		
1,600.0	1,571.9	1,471.0	1,413.6	5.0	6.7	110.68	195.4	294.7	432.9	424.7	8.18	52.942		
1,700.0	1,666.5	1,557.6	1,492.1	5.6	7.4	111.95	214.8	325.4	482.2	473.1	9.06	53.215		
1,800.0	1,761.1	1,644.1	1,570.7	6.1	8.1	112.99	234.3	356.2	531.6	521.7	9.95	53.420		
1,900.0	1,855.7	1,730.7	1,649.2	6.7	8.8	113.85	253.7	386.9	581.1	570.3	10.85	53.578		
2,000.0	1,950.3	1,817.3	1,727.8	7.3	9.4	114.57	273.2	417.6	630.8	619.0	11.75	53.705		
2,100.0	2,044.9	1,903.8	1,806.3	7.9	10.1	115.20	292.7	448.3	680.5	667.8	12.65	53.808		
2,200.0	2,139.5	1,990.4	1,884.9	8.5	10.8	115.73	312.1	479.1	730.2	716.6	13.55	53.893		
2,300.0	2,234.1	2,077.0	1,963.4	9.1	11.5	116.20	331.6	509.8	780.0	765.5	14.45	53.965		
2,400.0	2,328.9	2,163.7	2,042.1	9.7	12.2	117.18	351.1	540.6	829.5	814.1	15.42	53.794		
2,500.0	2,424.7	2,251.2	2,121.6	10.2	12.9	118.27	370.8	571.7	877.8	861.5	16.38	53.598		
2,600.0	2,521.4	2,339.6	2,201.7	10.6	13.6	119.09	390.6	603.0	924.7	907.4	17.28	53.506		
2,700.0	2,619.0	2,428.6	2,282.5	11.0	14.3	119.67	410.6	634.6	970.0	951.9	18.13	53.504		
2,800.0	2,717.2	2,518.1	2,363.8	11.3	15.0	120.04	430.8	666.4	1,013.9	995.0	18.92	53.587		
2,900.0	2,816.1	2,608.2	2,445.5	11.6	15.7	120.24	451.0	698.4	1,056.2	1,036.6	19.65	53.755		
3,000.0	2,915.4	2,698.5	2,527.5	11.9	16.4	120.28	471.3	730.5	1,097.1	1,076.8	20.31	54.009		
3,100.0	3,015.0	2,789.2	2,609.7	12.0	17.2	120.18	491.7	762.6	1,136.5	1,115.6	20.91	54.355		
3,200.0	3,114.9	2,879.9	2,692.0	12.2	17.9	119.96	512.1	794.8	1,174.6	1,153.2	21.43	54.798		
3,300.0	3,214.9	2,970.7	2,774.4	12.2	18.6	90.19	532.5	827.1	1,211.4	1,189.5	21.88	55.371		
3,400.0	3,314.9	3,061.4	2,856.7	12.3	19.3	89.18	552.9	859.3	1,247.9	1,225.7	22.21	56.189		
3,500.0	3,414.9	3,250.6	3,031.3	12.4	20.6	87.40	591.8	920.8	1,282.2	1,259.5	22.69	56.496		
3,600.0	3,514.9	3,490.0	3,260.9	12.5	21.8	85.91	627.7	977.4	1,307.0	1,283.8	23.16	56.444		
3,700.0	3,614.9	3,743.6	3,511.3	12.6	22.4	85.11	648.6	1,010.5	1,320.7	1,297.1	23.53	56.123		
3,800.0	3,714.9	3,947.4	3,714.9	12.7	22.6	84.96	652.6	1,016.8	1,323.2	1,299.4	23.82	55.551		
3,900.0	3,814.9	4,047.4	3,814.9	12.8	22.7	84.96	652.6	1,016.8	1,323.2	1,299.2	24.02	55.092		
4,000.0	3,914.9	4,147.4	3,914.9	12.9	22.7	84.96	652.6	1,016.8	1,323.2	1,299.0	24.22	54.633		
4,100.0	4,014.9	4,247.4	4,014.9	13.0	22.8	84.96	652.6	1,016.8	1,323.2	1,298.8	24.43	54.174		
4,200.0	4,114.9	4,347.4	4,114.9	13.1	22.8	84.96	652.6	1,016.8	1,323.2	1,298.6	24.63	53.715		
4,300.0	4,214.9	4,447.4	4,214.9	13.2	22.9	84.96	652.6	1,016.8	1,323.2	1,298.4	24.85	53.258		
4,400.0	4,314.9	4,547.4	4,314.9	13.3	22.9	84.96	652.6	1,016.8	1,323.2	1,298.2	25.06	52.802		
4,500.0	4,414.9	4,647.4	4,414.9	13.4	23.0	84.96	652.6	1,016.8	1,323.2	1,298.0	25.28	52.347		
4,600.0	4,514.9	4,747.4	4,514.9	13.5	23.1	84.96	652.6	1,016.8	1,323.2	1,297.7	25.50	51.894		
4,700.0	4,614.9	4,847.4	4,614.9	13.6	23.1	84.96	652.6	1,016.8	1,323.2	1,297.5	25.72	51.443		
4,800.0	4,714.9	4,947.4	4,714.9	13.7	23.2	84.96	652.6	1,016.8	1,323.2	1,297.3	25.95	50.995		
4,900.0	4,814.9	5,047.4	4,814.9	13.8	23.3	84.96	652.6	1,016.8	1,323.2	1,297.1	26.18	50.549		
5,000.0	4,914.9	5,147.4	4,914.9	13.9	23.3	84.96	652.6	1,016.8	1,323.2	1,296.8	26.41	50.106		
5,100.0	5,014.9	5,247.4	5,014.9	14.0	23.4	84.96	652.6	1,016.8	1,323.2	1,296.6	26.64	49.665		

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 44A-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 44A-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			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	5,114.9	5,347.4	5,114.9	14.1	23.5	84.96	652.6	1,016.8	1,323.2	1,296.4	26.88	49.228					
5,300.0	5,214.9	5,447.4	5,214.9	14.2	23.5	84.96	652.6	1,016.8	1,323.2	1,296.1	27.12	48.794					
5,400.0	5,314.9	5,547.4	5,314.9	14.3	23.6	84.96	652.6	1,016.8	1,323.2	1,295.9	27.36	48.364					
5,500.0	5,414.9	5,647.4	5,414.9	14.4	23.7	84.96	652.6	1,016.8	1,323.2	1,295.6	27.60	47.937					
5,600.0	5,514.9	5,747.4	5,514.9	14.6	23.7	84.96	652.6	1,016.8	1,323.2	1,295.4	27.85	47.514					
5,700.0	5,614.9	5,847.4	5,614.9	14.7	23.8	84.96	652.6	1,016.8	1,323.2	1,295.1	28.10	47.094					
5,800.0	5,714.9	5,947.4	5,714.9	14.8	23.9	84.96	652.6	1,016.8	1,323.2	1,294.9	28.35	46.678					
5,900.0	5,814.9	6,047.4	5,814.9	14.9	24.0	84.96	652.6	1,016.8	1,323.2	1,294.6	28.60	46.266					
5,925.1	5,840.0	6,072.5	5,840.0	14.9	24.0	84.96	652.6	1,016.8	1,323.2	1,294.6	28.66	46.164					

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 44A-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 44A-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			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	50.14	16.6	19.9	26.0					
100.0	100.0	100.0	100.0	0.1	0.1	50.14	16.6	19.9	26.0	25.7	0.25	101.875		
200.0	200.0	200.0	200.0	0.3	0.3	50.14	16.6	19.9	26.0	25.4	0.60	43.005		
300.0	300.0	300.0	300.0	0.5	0.5	50.14	16.6	19.9	26.0	25.0	0.95	27.255		
400.0	400.0	400.0	400.0	0.7	0.7	50.14	16.6	19.9	26.0	24.7	1.30	19.949 CC, ES		
500.0	500.0	498.7	498.6	0.8	0.8	82.30	17.4	22.4	28.3	26.7	1.65	17.164 SF		
600.0	599.9	596.7	596.3	1.0	1.0	91.86	19.6	29.6	35.6	33.6	2.00	17.804		
700.0	699.7	693.3	692.1	1.2	1.3	102.18	23.2	41.4	49.3	47.0	2.36	20.864		
800.0	799.1	787.8	785.2	1.4	1.6	109.88	28.1	57.5	70.0	67.2	2.75	25.450		
900.0	898.2	879.7	874.7	1.7	2.0	114.94	34.2	77.3	97.5	94.3	3.17	30.713		
1,000.0	996.6	968.4	960.1	2.0	2.4	118.17	41.2	100.2	131.3	127.7	3.64	36.061		
1,100.0	1,094.4	1,053.6	1,040.9	2.4	2.9	120.22	49.1	125.8	171.1	166.9	4.16	41.160		
1,200.0	1,191.5	1,134.8	1,116.8	2.8	3.4	121.48	57.5	153.4	216.4	211.7	4.72	45.879		
1,300.0	1,287.6	1,218.8	1,194.4	3.3	4.0	122.44	67.0	184.4	266.1	260.8	5.34	49.850		
1,400.0	1,382.7	1,304.0	1,272.9	3.9	4.6	123.42	76.6	215.8	317.8	311.8	6.01	52.864		
1,500.0	1,477.3	1,388.6	1,351.0	4.4	5.2	125.07	86.2	247.1	370.5	363.8	6.73	55.052		
1,600.0	1,571.9	1,473.2	1,429.0	5.0	5.8	126.30	95.7	278.3	423.3	415.9	7.46	56.745		
1,700.0	1,666.5	1,557.8	1,507.0	5.6	6.5	127.27	105.3	309.6	476.3	468.1	8.20	58.088		
1,800.0	1,761.1	1,642.4	1,585.0	6.1	7.1	128.04	114.8	340.8	529.3	520.3	8.94	59.175		
1,900.0	1,855.7	1,727.0	1,663.1	6.7	7.7	128.67	124.4	372.0	582.4	572.7	9.69	60.070		
2,000.0	1,950.3	1,811.6	1,741.1	7.3	8.3	129.19	134.0	403.3	635.5	625.0	10.45	60.819		
2,100.0	2,044.9	1,896.2	1,819.1	7.9	8.9	129.64	143.5	434.5	688.6	677.4	11.21	61.453		
2,200.0	2,139.5	1,980.7	1,897.1	8.5	9.5	130.02	153.1	465.8	741.8	729.8	11.97	61.996		
2,300.0	2,234.1	2,065.3	1,975.2	9.1	10.2	130.35	162.7	497.0	795.0	782.3	12.73	62.466		
2,400.0	2,328.9	2,150.2	2,053.4	9.7	10.8	131.17	172.2	528.4	847.9	834.3	13.54	62.632		
2,500.0	2,424.7	2,236.1	2,132.7	10.2	11.4	132.10	182.0	560.1	898.9	884.6	14.35	62.663		
2,600.0	2,521.4	2,323.3	2,213.1	10.6	12.1	132.78	191.8	592.3	948.0	932.8	15.12	62.698		
2,700.0	2,619.0	2,411.4	2,294.4	11.0	12.7	133.26	201.8	624.9	994.9	979.1	15.86	62.745		
2,800.0	2,717.2	2,500.5	2,376.6	11.3	13.4	133.57	211.9	657.8	1,039.8	1,023.3	16.55	62.812		
2,900.0	2,816.1	2,590.5	2,459.5	11.6	14.0	133.71	222.0	691.0	1,082.6	1,065.4	17.21	62.910		
3,000.0	2,915.4	2,681.1	2,543.1	11.9	14.7	133.72	232.3	724.5	1,123.3	1,105.5	17.82	63.048		
3,100.0	3,015.0	2,772.3	2,627.3	12.0	15.4	133.60	242.6	758.2	1,161.9	1,143.5	18.37	63.239		
3,200.0	3,114.9	2,864.1	2,711.9	12.2	16.0	133.36	252.9	792.0	1,198.4	1,179.6	18.87	63.494		
3,300.0	3,214.9	2,956.2	2,796.9	12.2	16.7	103.61	263.4	826.1	1,233.0	1,213.7	19.32	63.836		
3,400.0	3,314.9	3,048.5	2,882.0	12.3	17.4	102.74	273.8	860.1	1,267.0	1,247.4	19.69	64.342		
3,500.0	3,414.9	3,207.2	3,029.6	12.4	18.5	101.40	290.9	916.0	1,300.2	1,280.0	20.20	64.363		
3,600.0	3,514.9	3,456.5	3,269.4	12.5	19.6	99.99	310.6	980.4	1,324.4	1,303.7	20.77	63.764		
3,700.0	3,614.9	3,720.2	3,530.4	12.6	20.3	99.27	321.3	1,015.5	1,336.9	1,315.7	21.23	62.977		
3,800.0	3,714.9	3,904.9	3,714.9	12.7	20.4	99.18	322.7	1,020.0	1,338.5	1,317.0	21.53	62.161		
3,900.0	3,814.9	4,004.9	3,814.9	12.8	20.5	99.18	322.7	1,020.0	1,338.5	1,316.8	21.75	61.537		
4,000.0	3,914.9	4,104.9	3,914.9	12.9	20.5	99.18	322.7	1,020.0	1,338.5	1,316.5	21.97	60.917		
4,100.0	4,014.9	4,204.9	4,014.9	13.0	20.6	99.18	322.7	1,020.0	1,338.5	1,316.3	22.20	60.300		
4,200.0	4,114.9	4,304.9	4,114.9	13.1	20.6	99.18	322.7	1,020.0	1,338.5	1,316.1	22.43	59.687		
4,300.0	4,214.9	4,404.9	4,214.9	13.2	20.7	99.18	322.7	1,020.0	1,338.5	1,315.9	22.66	59.078		
4,400.0	4,314.9	4,504.9	4,314.9	13.3	20.8	99.18	322.7	1,020.0	1,338.5	1,315.6	22.89	58.474		
4,500.0	4,414.9	4,604.9	4,414.9	13.4	20.8	99.18	322.7	1,020.0	1,338.5	1,315.4	23.13	57.875		
4,600.0	4,514.9	4,704.9	4,514.9	13.5	20.9	99.18	322.7	1,020.0	1,338.5	1,315.2	23.37	57.281		
4,700.0	4,614.9	4,804.9	4,614.9	13.6	21.0	99.18	322.7	1,020.0	1,338.5	1,314.9	23.61	56.692		
4,800.0	4,714.9	4,904.9	4,714.9	13.7	21.1	99.18	322.7	1,020.0	1,338.5	1,314.7	23.86	56.110		
4,900.0	4,814.9	5,004.9	4,814.9	13.8	21.1	99.18	322.7	1,020.0	1,338.5	1,314.4	24.10	55.533		
5,000.0	4,914.9	5,104.9	4,914.9	13.9	21.2	99.18	322.7	1,020.0	1,338.5	1,314.2	24.35	54.962		
5,100.0	5,014.9	5,204.9	5,014.9	14.0	21.3	99.18	322.7	1,020.0	1,338.5	1,313.9	24.61	54.398		

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 44A-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 44A-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			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	5,114.9	5,304.9	5,114.9	14.1	21.3	99.18	322.7	1,020.0	1,338.5	1,313.7	24.86	53.840		
5,300.0	5,214.9	5,404.9	5,214.9	14.2	21.4	99.18	322.7	1,020.0	1,338.5	1,313.4	25.12	53.289		
5,400.0	5,314.9	5,504.9	5,314.9	14.3	21.5	99.18	322.7	1,020.0	1,338.5	1,313.1	25.38	52.744		
5,500.0	5,414.9	5,604.9	5,414.9	14.4	21.6	99.18	322.7	1,020.0	1,338.5	1,312.9	25.64	52.206		
5,600.0	5,514.9	5,704.9	5,514.9	14.6	21.7	99.18	322.7	1,020.0	1,338.5	1,312.6	25.90	51.675		
5,700.0	5,614.9	5,804.9	5,614.9	14.7	21.7	99.18	322.7	1,020.0	1,338.5	1,312.4	26.17	51.150		
5,800.0	5,714.9	5,904.9	5,714.9	14.8	21.8	99.18	322.7	1,020.0	1,338.5	1,312.1	26.44	50.633		
5,900.0	5,814.9	6,004.9	5,814.9	14.9	21.9	99.18	322.7	1,020.0	1,338.5	1,311.8	26.71	50.122		
5,925.1	5,840.0	6,030.0	5,840.0	14.9	21.9	99.18	322.7	1,020.0	1,338.5	1,311.7	26.77	49.995		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 44A-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 44A-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									
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	59.52	9.6	16.2	18.8						
100.0	100.0	100.0	100.0	0.1	0.1	59.52	9.6	16.2	18.8	18.6	0.26	73.861			
200.0	200.0	200.0	200.0	0.3	0.3	59.52	9.6	16.2	18.8	18.2	0.60	31.191			
300.0	300.0	300.0	300.0	0.5	0.5	59.52	9.6	16.2	18.8	17.9	0.95	19.770			
400.0	400.0	400.0	400.0	0.7	0.7	59.52	9.6	16.2	18.8	17.5	1.30	14.471			
486.1	486.1	486.1	486.1	0.8	0.8	90.81	9.6	16.2	18.8	17.2	1.60	11.756			
500.0	500.0	500.0	500.0	0.8	0.8	90.17	9.6	16.2	18.8	17.2	1.65	11.409 CC			
521.5	521.5	521.5	521.5	0.9	0.9	91.56	9.6	16.2	18.9	17.1	1.73	10.911 ES			
600.0	599.9	599.5	599.4	1.0	1.0	101.20	9.6	16.9	19.8	17.8	2.00	9.868 SF			
700.0	699.7	697.7	697.6	1.2	1.2	118.98	9.5	22.0	27.4	25.0	2.37	11.570			
800.0	799.1	794.3	793.7	1.4	1.4	130.87	9.3	31.8	43.7	40.9	2.73	15.988			
900.0	898.2	888.5	886.7	1.7	1.6	136.80	9.1	46.2	68.0	64.9	3.11	21.872			
1,000.0	996.6	979.5	975.9	2.0	2.0	139.68	8.8	64.3	99.6	96.1	3.51	28.401			
1,100.0	1,094.4	1,066.7	1,060.4	2.4	2.3	141.09	8.4	85.7	138.0	134.1	3.93	35.093			
1,200.0	1,191.5	1,149.7	1,139.9	2.8	2.8	141.72	8.0	109.6	182.7	178.3	4.39	41.664			
1,300.0	1,287.6	1,228.2	1,214.0	3.3	3.2	141.91	7.6	135.4	233.3	228.4	4.87	47.945			
1,400.0	1,382.7	1,300.0	1,280.9	3.9	3.7	141.83	7.1	161.6	289.2	283.9	5.37	53.894			
1,500.0	1,477.3	1,377.1	1,351.6	4.4	4.3	142.33	6.6	192.2	348.7	342.8	5.92	58.921			
1,600.0	1,571.9	1,457.2	1,425.0	5.0	4.8	142.67	6.1	224.3	408.5	402.0	6.49	62.945			
1,700.0	1,666.5	1,537.3	1,498.4	5.6	5.4	142.92	5.6	256.4	468.4	461.3	7.07	66.225			
1,800.0	1,761.1	1,617.4	1,571.8	6.1	6.0	143.11	5.0	288.5	528.2	520.5	7.66	68.934			
1,900.0	1,855.7	1,697.5	1,645.1	6.7	6.6	143.27	4.5	320.6	588.0	579.8	8.26	71.203			
2,000.0	1,950.3	1,777.6	1,718.5	7.3	7.2	143.40	4.0	352.8	647.9	639.0	8.86	73.123			
2,100.0	2,044.9	1,857.7	1,791.9	7.9	7.8	143.50	3.4	384.9	707.7	698.3	9.47	74.768			
2,200.0	2,139.5	1,937.8	1,865.3	8.5	8.4	143.59	2.9	417.0	767.6	757.5	10.07	76.190			
2,300.0	2,234.1	2,017.9	1,938.7	9.1	9.1	143.67	2.4	449.1	827.4	816.7	10.69	77.430			
2,400.0	2,328.9	2,098.3	2,012.3	9.7	9.7	144.23	1.8	481.4	886.9	875.5	11.34	78.241			
2,500.0	2,424.7	2,180.3	2,087.4	10.2	10.3	144.93	1.3	514.2	944.2	932.2	11.99	78.738			
2,600.0	2,521.4	2,263.7	2,163.9	10.6	10.9	145.44	0.7	547.7	999.1	986.5	12.63	79.094			
2,700.0	2,619.0	2,348.6	2,241.6	11.0	11.6	145.80	0.2	581.8	1,051.7	1,038.4	13.25	79.348			
2,800.0	2,717.2	2,434.9	2,320.6	11.3	12.3	146.03	-0.4	616.3	1,101.8	1,088.0	13.85	79.531			
2,900.0	2,816.1	2,522.4	2,400.8	11.6	12.9	146.13	-1.0	651.4	1,149.5	1,135.0	14.43	79.669			
3,000.0	2,915.4	2,611.0	2,482.0	11.9	13.6	146.13	-1.6	687.0	1,194.6	1,179.6	14.97	79.788			
3,100.0	3,015.0	2,700.6	2,564.1	12.0	14.3	146.04	-2.2	722.9	1,237.3	1,221.8	15.48	79.909			
3,200.0	3,114.9	2,791.2	2,647.0	12.2	15.0	145.85	-2.8	759.2	1,277.4	1,261.5	15.96	80.052			
3,300.0	3,214.9	2,882.5	2,730.7	12.2	15.7	116.19	-3.4	795.8	1,315.1	1,298.7	16.39	80.244			
3,400.0	3,314.9	2,974.1	2,814.6	12.3	16.4	115.48	-4.0	832.6	1,352.0	1,335.3	16.78	80.581			

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 44A-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 44A-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		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	76.64	3.0	12.6	12.9					
100.0	100.0	100.0	100.0	0.1	0.1	76.64	3.0	12.6	12.9	12.7	0.26	50.709		
200.0	200.0	200.0	200.0	0.3	0.3	76.64	3.0	12.6	12.9	12.3	0.60	21.423		
300.0	300.0	300.0	300.0	0.5	0.5	76.64	3.0	12.6	12.9	12.0	0.95	13.580		
400.0	400.0	400.0	400.0	0.7	0.7	76.64	3.0	12.6	12.9	11.6	1.30	9.941 CC		
431.0	431.0	431.0	431.0	0.7	0.7	106.33	3.0	12.6	13.0	11.6	1.41	9.196		
500.0	500.0	500.0	500.0	0.8	0.8	107.81	3.0	12.6	13.1	11.4	1.65	7.916 ES, SF		
600.0	599.9	599.1	599.1	1.0	1.0	123.46	2.2	15.0	17.0	15.0	2.00	8.499		
700.0	699.7	697.0	696.7	1.2	1.2	138.52	-0.3	22.2	29.4	27.0	2.35	12.487		
800.0	799.1	792.7	791.5	1.4	1.4	145.94	-4.3	33.8	50.4	47.7	2.70	18.632		
900.0	898.2	885.2	882.6	1.7	1.7	149.39	-9.6	49.2	79.3	76.3	3.06	25.935		
1,000.0	996.6	973.9	969.1	2.0	2.1	151.07	-16.1	67.9	115.7	112.2	3.42	33.829		
1,100.0	1,094.4	1,058.2	1,050.3	2.4	2.5	151.90	-23.4	89.2	158.9	155.1	3.79	41.968		
1,200.0	1,191.5	1,137.6	1,125.8	2.8	2.9	152.26	-31.4	112.3	208.6	204.4	4.16	50.130		
1,300.0	1,287.6	1,211.8	1,195.5	3.3	3.4	152.34	-39.8	136.5	264.2	259.7	4.54	58.160		
1,400.0	1,382.7	1,280.8	1,259.2	3.9	3.9	152.25	-48.4	161.4	325.3	320.4	4.94	65.888		
1,500.0	1,477.3	1,346.6	1,319.1	4.4	4.4	152.64	-57.2	187.1	390.1	384.7	5.35	72.850		
1,600.0	1,571.9	1,421.9	1,387.3	5.0	5.0	152.92	-67.7	217.4	455.8	450.0	5.80	78.590		
1,700.0	1,666.5	1,497.2	1,455.5	5.6	5.6	153.12	-78.1	247.6	521.6	515.4	6.25	83.446		
1,800.0	1,761.1	1,572.5	1,523.6	6.1	6.2	153.28	-88.6	277.9	587.4	580.7	6.71	87.563		
1,900.0	1,855.7	1,647.8	1,591.8	6.7	6.8	153.41	-99.1	308.2	653.2	646.0	7.17	91.111		
2,000.0	1,950.3	1,723.1	1,659.9	7.3	7.4	153.52	-109.5	338.5	719.0	711.3	7.63	94.192		
2,100.0	2,044.9	1,798.5	1,728.1	7.9	8.0	153.61	-120.0	368.8	784.8	776.7	8.10	96.886		
2,200.0	2,139.5	1,873.8	1,796.2	8.5	8.6	153.68	-130.4	399.1	850.5	842.0	8.57	99.251		
2,300.0	2,234.1	1,949.1	1,864.4	9.1	9.2	153.74	-140.9	429.4	916.3	907.3	9.04	101.352		
2,400.0	2,328.9	2,024.8	1,932.9	9.7	9.8	154.23	-151.4	459.8	981.7	972.1	9.55	102.841		
2,500.0	2,424.7	2,102.3	2,003.1	10.2	10.4	154.86	-162.1	491.0	1,044.8	1,034.7	10.06	103.807		
2,600.0	2,521.4	2,181.8	2,075.0	10.6	11.1	155.34	-173.2	522.9	1,105.5	1,094.9	10.58	104.496		
2,700.0	2,619.0	2,263.0	2,148.5	11.0	11.7	155.70	-184.5	555.6	1,163.6	1,152.5	11.08	104.971		
2,800.0	2,717.2	2,346.1	2,223.7	11.3	12.4	155.95	-196.0	589.0	1,219.1	1,207.5	11.58	105.281		
2,900.0	2,816.1	2,430.7	2,300.3	11.6	13.1	156.12	-207.7	623.0	1,272.0	1,259.9	12.06	105.467		
3,000.0	2,915.4	2,516.9	2,378.2	11.9	13.8	156.20	-219.7	657.7	1,322.1	1,309.6	12.52	105.565		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 44A-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 44A-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	117.55	-4.6	8.9	10.0					
100.0	100.0	100.0	100.0	0.1	0.1	117.55	-4.6	8.9	10.0	9.7	0.26	39.150		
200.0	200.0	200.0	200.0	0.3	0.3	117.55	-4.6	8.9	10.0	9.4	0.60	16.546		
300.0	300.0	300.0	300.0	0.5	0.5	117.55	-4.6	8.9	10.0	9.0	0.95	10.490		
400.0	400.0	400.0	400.0	0.7	0.7	117.55	-4.6	8.9	10.0	8.7	1.30	7.679 CC, ES, SF		
500.0	500.0	499.4	499.3	0.8	0.8	148.99	-6.0	11.0	13.0	11.3	1.65	7.857		
600.0	599.9	597.8	597.5	1.0	1.0	154.27	-10.2	17.5	23.8	21.8	2.00	11.928		
700.0	699.7	694.3	693.1	1.2	1.3	157.50	-16.9	27.9	42.9	40.6	2.34	18.356		
800.0	799.1	787.8	785.1	1.4	1.6	159.17	-26.0	41.8	70.1	67.4	2.68	26.168		
900.0	898.2	877.4	872.5	1.7	2.0	160.04	-36.9	58.7	104.9	101.9	3.01	34.805		
1,000.0	996.6	962.6	954.5	2.0	2.4	160.49	-49.4	77.9	147.0	143.6	3.35	43.932		
1,100.0	1,094.4	1,042.8	1,030.7	2.4	2.8	160.70	-62.9	98.8	195.8	192.1	3.67	53.331		
1,200.0	1,191.5	1,117.6	1,100.9	2.8	3.3	160.74	-77.1	120.7	250.8	246.8	3.99	62.855		
1,300.0	1,287.6	1,187.0	1,164.9	3.3	3.8	160.66	-91.6	143.0	311.6	307.3	4.31	72.341		
1,400.0	1,382.7	1,250.8	1,222.9	3.9	4.3	160.49	-106.1	165.2	377.6	373.0	4.63	81.631		
1,500.0	1,477.3	1,310.2	1,276.1	4.4	4.8	160.78	-120.4	187.4	447.0	442.0	4.96	90.082		
1,600.0	1,571.9	1,372.6	1,331.2	5.0	5.4	160.95	-136.4	212.0	518.3	513.0	5.31	97.610		
1,700.0	1,666.5	1,442.3	1,392.6	5.6	6.0	161.09	-154.4	239.7	590.0	584.3	5.67	103.974		
1,800.0	1,761.1	1,512.0	1,454.0	6.1	6.6	161.20	-172.3	267.4	661.7	655.6	6.04	109.561		
1,900.0	1,855.7	1,581.8	1,515.4	6.7	7.2	161.29	-190.3	295.1	733.3	726.9	6.41	114.450		
2,000.0	1,950.3	1,651.5	1,576.9	7.3	7.8	161.37	-208.3	322.8	805.0	798.2	6.78	118.776		
2,100.0	2,044.9	1,721.2	1,638.3	7.9	8.4	161.43	-226.3	350.5	876.7	869.5	7.15	122.638		
2,200.0	2,139.5	1,791.0	1,699.7	8.5	9.1	161.48	-244.2	378.2	948.4	940.8	7.52	126.095		
2,300.0	2,234.1	1,860.7	1,761.1	9.1	9.7	161.52	-262.2	405.9	1,020.0	1,012.1	7.90	129.198		
2,400.0	2,328.9	1,930.9	1,822.9	9.7	10.3	161.93	-280.3	433.8	1,091.3	1,083.0	8.30	131.486		
2,500.0	2,424.7	2,003.2	1,886.6	10.2	11.0	162.46	-298.9	462.5	1,160.3	1,151.6	8.72	133.019		
2,600.0	2,521.4	2,077.7	1,952.3	10.6	11.6	162.89	-318.1	492.1	1,227.0	1,217.8	9.15	134.131		
2,700.0	2,619.0	2,154.4	2,019.8	11.0	12.3	163.22	-337.9	522.6	1,291.1	1,281.5	9.57	134.910		
2,800.0	2,717.2	2,233.2	2,089.2	11.3	13.0	163.46	-358.2	553.9	1,352.6	1,342.6	9.99	135.417		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 44A-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 44A-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	27.50	21.3	11.1	24.0							
100.0	100.0	100.0	100.0	0.1	0.1	27.50	21.3	11.1	24.0	23.7	0.26	93.776				
200.0	200.0	200.0	200.0	0.3	0.3	27.50	21.3	11.1	24.0	23.4	0.60	39.650				
300.0	300.0	300.0	300.0	0.5	0.5	27.50	21.3	11.1	24.0	23.0	0.95	25.140	CC, ES			
400.0	400.0	398.9	398.9	0.7	0.7	23.98	23.8	10.6	26.1	24.7	1.31	19.948				
500.0	500.0	497.4	497.0	0.8	0.9	46.08	31.3	9.1	32.4	30.7	1.66	19.556	SF			
600.0	599.9	595.2	594.0	1.0	1.1	41.21	43.6	6.7	41.5	39.5	2.02	20.595				
700.0	699.7	692.3	689.6	1.2	1.5	38.51	60.7	3.4	52.9	50.5	2.39	22.161				
800.0	799.1	788.6	783.3	1.4	1.9	37.10	82.3	-0.8	66.3	63.5	2.77	23.904				
900.0	898.2	883.9	874.8	1.7	2.4	36.45	108.2	-5.9	81.7	78.5	3.19	25.634				
1,000.0	996.6	978.2	964.0	2.0	2.9	36.21	138.2	-11.7	98.9	95.3	3.63	27.236				
1,100.0	1,094.4	1,071.3	1,050.5	2.4	3.5	36.22	172.1	-18.4	118.0	113.8	4.12	28.641				
1,200.0	1,191.5	1,163.3	1,134.2	2.8	4.2	36.34	209.5	-25.7	138.8	134.1	4.65	29.818				
1,300.0	1,287.6	1,254.0	1,214.9	3.3	5.0	36.52	250.3	-33.6	161.2	156.0	5.24	30.762				
1,400.0	1,382.7	1,343.5	1,292.3	3.9	5.8	36.74	294.2	-42.2	185.3	179.4	5.88	31.487				
1,500.0	1,477.3	1,431.2	1,366.2	4.4	6.7	36.97	340.6	-51.2	212.4	205.8	6.56	32.371				
1,600.0	1,571.9	1,516.7	1,436.0	5.0	7.5	36.81	388.9	-60.7	243.5	236.3	7.21	33.756				
1,700.0	1,666.5	1,600.0	1,501.9	5.6	8.5	36.40	439.0	-70.4	278.5	270.7	7.84	35.532				
1,800.0	1,761.1	1,684.4	1,566.5	6.1	9.4	35.84	492.3	-80.8	317.1	308.7	8.44	37.557				
1,900.0	1,855.7	1,776.2	1,636.3	6.7	10.5	35.32	551.0	-92.3	356.5	347.4	9.06	39.325				
2,000.0	1,950.3	1,868.1	1,706.1	7.3	11.5	34.91	609.6	-103.7	395.9	386.2	9.69	40.857				
2,100.0	2,044.9	1,960.0	1,775.9	7.9	12.6	34.57	668.2	-115.2	435.3	424.9	10.31	42.197				
2,200.0	2,139.5	2,051.9	1,845.7	8.5	13.6	34.28	726.9	-126.6	474.7	463.7	10.94	43.378				
2,300.0	2,234.1	2,143.8	1,915.5	9.1	14.7	34.04	785.5	-138.0	514.1	502.5	11.57	44.426				
2,400.0	2,328.9	2,235.4	1,985.1	9.7	15.7	34.09	844.0	-149.5	554.0	541.8	12.24	45.244				
2,500.0	2,424.7	2,325.9	2,053.9	10.2	16.8	34.21	901.8	-160.7	596.4	583.5	12.89	46.267				
2,600.0	2,521.4	2,415.1	2,121.6	10.6	17.8	34.24	958.7	-171.8	641.3	627.9	13.47	47.607				
2,700.0	2,619.0	2,502.8	2,188.3	11.0	18.8	34.19	1,014.6	-182.7	688.9	674.9	14.00	49.225				
2,800.0	2,717.2	2,588.9	2,253.7	11.3	19.8	34.11	1,069.6	-193.5	739.1	724.7	14.47	51.087				
2,900.0	2,816.1	2,673.3	2,317.8	11.6	20.8	34.00	1,123.5	-204.0	791.9	777.0	14.89	53.168				
3,000.0	2,915.4	2,756.0	2,380.6	11.9	21.7	33.88	1,176.2	-214.3	847.2	832.0	15.28	55.440				
3,100.0	3,015.0	2,836.8	2,442.0	12.0	22.7	33.78	1,227.7	-224.3	905.1	889.5	15.64	57.879				
3,200.0	3,114.9	2,984.2	2,557.2	12.2	24.3	32.98	1,318.0	-241.9	962.9	947.0	15.87	60.667				
3,300.0	3,214.9	3,154.0	2,698.2	12.2	25.9	2.71	1,410.7	-260.0	1,016.5	1,000.5	16.02	63.435				
3,400.0	3,314.9	3,342.5	2,863.9	12.3	27.4	1.44	1,498.8	-277.2	1,063.3	1,047.2	16.05	66.259				
3,500.0	3,414.9	3,550.7	3,056.1	12.4	28.8	0.49	1,577.0	-292.5	1,100.9	1,084.7	16.19	67.981				
3,600.0	3,514.9	3,776.1	3,272.6	12.5	29.8	-0.16	1,638.0	-304.4	1,128.0	1,111.5	16.46	68.545				
3,700.0	3,614.9	4,013.9	3,507.4	12.6	30.4	-0.51	1,674.7	-311.5	1,143.5	1,126.7	16.82	67.974				
3,800.0	3,714.9	4,221.7	3,714.9	12.7	30.6	-0.59	1,683.3	-313.2	1,147.0	1,129.8	17.23	66.583				
3,900.0	3,814.9	4,321.7	3,814.9	12.8	30.6	-0.59	1,683.3	-313.2	1,147.0	1,129.5	17.51	65.507				
4,000.0	3,914.9	4,421.7	3,914.9	12.9	30.7	-0.59	1,683.3	-313.2	1,147.0	1,129.2	17.80	64.458				
4,100.0	4,014.9	4,521.7	4,014.9	13.0	30.7	-0.59	1,683.3	-313.2	1,147.0	1,129.0	18.08	63.433				
4,200.0	4,114.9	4,621.7	4,114.9	13.1	30.8	-0.59	1,683.3	-313.2	1,147.0	1,128.7	18.37	62.433				
4,300.0	4,214.9	4,721.7	4,214.9	13.2	30.8	-0.59	1,683.3	-313.2	1,147.0	1,128.4	18.66	61.458				
4,400.0	4,314.9	4,821.7	4,314.9	13.3	30.9	-0.59	1,683.3	-313.2	1,147.0	1,128.1	18.96	60.506				
4,500.0	4,414.9	4,921.7	4,414.9	13.4	30.9	-0.59	1,683.3	-313.2	1,147.0	1,127.8	19.25	59.578				
4,600.0	4,514.9	5,021.7	4,514.9	13.5	31.0	-0.59	1,683.3	-313.2	1,147.0	1,127.5	19.55	58.672				
4,700.0	4,614.9	5,121.7	4,614.9	13.6	31.0	-0.59	1,683.3	-313.2	1,147.0	1,127.2	19.85	57.789				
4,800.0	4,714.9	5,221.7	4,714.9	13.7	31.1	-0.59	1,683.3	-313.2	1,147.0	1,126.9	20.15	56.927				
4,900.0	4,814.9	5,321.7	4,814.9	13.8	31.1	-0.59	1,683.3	-313.2	1,147.0	1,126.6	20.45	56.086				
5,000.0	4,914.9	5,421.7	4,914.9	13.9	31.2	-0.59	1,683.3	-313.2	1,147.0	1,126.3	20.75	55.266				
5,100.0	5,014.9	5,521.7	5,014.9	14.0	31.2	-0.59	1,683.3	-313.2	1,147.0	1,126.0	21.06	54.466				

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 44A-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 44A-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						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	5,114.9	5,621.7	5,114.9	14.1	31.3	-0.59	1,683.3	-313.2	1,147.0	1,125.7	21.37	53.685	
5,300.0	5,214.9	5,721.7	5,214.9	14.2	31.3	-0.59	1,683.3	-313.2	1,147.0	1,125.4	21.67	52.923	
5,400.0	5,314.9	5,821.7	5,314.9	14.3	31.4	-0.59	1,683.3	-313.2	1,147.0	1,125.1	21.98	52.180	
5,500.0	5,414.9	5,921.7	5,414.9	14.4	31.4	-0.59	1,683.3	-313.2	1,147.0	1,124.8	22.29	51.454	
5,600.0	5,514.9	6,021.7	5,514.9	14.6	31.5	-0.59	1,683.3	-313.2	1,147.0	1,124.4	22.60	50.746	
5,700.0	5,614.9	6,121.7	5,614.9	14.7	31.6	-0.59	1,683.3	-313.2	1,147.0	1,124.1	22.92	50.054	
5,800.0	5,714.9	6,221.7	5,714.9	14.8	31.6	-0.59	1,683.3	-313.2	1,147.0	1,123.8	23.23	49.379	
5,900.0	5,814.9	6,321.7	5,814.9	14.9	31.7	-0.59	1,683.3	-313.2	1,147.0	1,123.5	23.54	48.720	
5,925.1	5,840.0	6,346.8	5,840.0	14.9	31.7	-0.59	1,683.3	-313.2	1,147.0	1,123.4	23.62	48.557	

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 44A-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 44A-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	27.47	14.2	7.4	16.0					
100.0	100.0	100.0	100.0	0.1	0.1	27.47	14.2	7.4	16.0	15.7	62.481			
200.0	200.0	200.0	200.0	0.3	0.3	27.47	14.2	7.4	16.0	15.4	26.425			
300.0	300.0	300.0	300.0	0.5	0.5	27.47	14.2	7.4	16.0	15.0	16.756			
334.0	334.0	334.0	334.0	0.5	0.5	27.47	14.2	7.4	16.0	14.9	14.901 CC, ES			
400.0	400.0	399.7	399.7	0.7	0.7	26.00	14.8	7.2	16.5	15.2	12.652			
500.0	500.0	498.8	498.6	0.8	0.8	47.15	19.8	6.0	20.5	18.8	12.377 SF			
600.0	599.9	597.4	596.8	1.0	1.1	41.22	29.8	3.7	27.1	25.1	13.484			
700.0	699.7	695.6	693.7	1.2	1.4	37.99	44.5	0.3	36.0	33.6	15.116			
800.0	799.1	793.0	789.0	1.4	1.7	36.35	64.0	-4.3	46.9	44.1	16.951			
900.0	898.2	889.6	882.5	1.7	2.2	35.58	87.9	-9.9	59.7	56.6	18.810			
1,000.0	996.6	985.4	973.7	2.0	2.7	35.28	116.1	-16.5	74.5	70.8	20.582			
1,100.0	1,094.4	1,080.1	1,062.5	2.4	3.3	35.22	148.4	-24.1	91.0	86.9	22.196			
1,200.0	1,191.5	1,173.8	1,148.5	2.8	4.0	35.28	184.5	-32.6	109.4	104.7	23.616			
1,300.0	1,287.6	1,266.4	1,231.6	3.3	4.7	35.40	224.1	-41.9	129.4	124.2	24.826			
1,400.0	1,382.7	1,357.7	1,311.6	3.9	5.5	35.55	267.1	-51.9	151.0	145.2	25.834			
1,500.0	1,477.3	1,450.7	1,391.0	4.4	6.4	35.66	314.2	-63.0	175.4	168.9	26.926			
1,600.0	1,571.9	1,547.5	1,473.2	5.0	7.2	35.67	363.8	-74.6	200.5	193.3	27.845			
1,700.0	1,666.5	1,644.3	1,555.5	5.6	8.1	35.68	413.5	-86.3	225.6	217.7	28.573			
1,800.0	1,761.1	1,741.1	1,637.8	6.1	9.0	35.68	463.2	-97.9	250.6	242.1	29.162			
1,900.0	1,855.7	1,837.9	1,720.0	6.7	9.9	35.69	512.9	-109.6	275.7	266.4	29.646			
2,000.0	1,950.3	1,934.7	1,802.3	7.3	10.9	35.69	562.5	-121.2	300.8	290.8	30.050			
2,100.0	2,044.9	2,031.5	1,884.6	7.9	11.8	35.70	612.2	-132.9	325.9	315.2	30.391			
2,200.0	2,139.5	2,128.3	1,966.8	8.5	12.7	35.70	661.9	-144.5	351.0	339.5	30.683			
2,300.0	2,234.1	2,225.1	2,049.1	9.1	13.6	35.70	711.5	-156.2	376.0	363.9	30.935			
2,400.0	2,328.9	2,321.8	2,131.3	9.7	14.5	35.84	761.2	-167.8	401.6	388.7	31.168			
2,500.0	2,424.7	2,417.7	2,212.8	10.2	15.4	35.87	810.4	-179.3	429.7	416.2	31.731			
2,600.0	2,521.4	2,512.8	2,293.6	10.6	16.3	35.72	859.2	-190.8	460.5	446.4	32.643			
2,700.0	2,619.0	2,606.8	2,373.5	11.0	17.2	35.42	907.4	-202.1	494.1	479.5	33.870			
2,800.0	2,717.2	2,699.7	2,452.4	11.3	18.0	35.02	955.1	-213.3	530.4	515.4	35.383			
2,900.0	2,816.1	2,791.3	2,530.3	11.6	18.9	34.55	1,002.1	-224.3	569.5	554.1	37.164			
3,000.0	2,915.4	2,881.7	2,607.1	11.9	19.7	34.04	1,048.5	-235.2	611.3	595.7	39.194			
3,100.0	3,015.0	2,975.8	2,687.1	12.0	20.6	33.46	1,096.7	-246.5	655.9	640.1	41.478			
3,200.0	3,114.9	3,111.6	2,805.5	12.2	21.8	32.46	1,161.4	-261.7	699.5	683.6	43.900			
3,300.0	3,214.9	3,255.0	2,935.3	12.2	22.8	2.16	1,220.6	-275.5	739.6	723.6	46.188			
3,400.0	3,314.9	3,407.1	3,077.6	12.3	23.7	1.06	1,272.8	-287.8	773.9	757.9	48.213			
3,500.0	3,414.9	3,567.7	3,231.9	12.4	24.4	0.26	1,315.8	-297.9	800.7	784.5	49.464			
3,600.0	3,514.9	3,735.0	3,396.1	12.5	25.0	-0.27	1,347.1	-305.2	819.4	803.0	49.932			
3,700.0	3,614.9	3,906.9	3,567.0	12.6	25.3	-0.55	1,364.5	-309.3	829.6	812.9	49.649			
3,800.0	3,714.9	4,054.8	3,714.9	12.7	25.4	-0.60	1,367.7	-310.0	831.5	814.4	48.806			
3,900.0	3,814.9	4,154.8	3,814.9	12.8	25.4	-0.60	1,367.7	-310.0	831.5	814.2	48.016			
4,000.0	3,914.9	4,254.8	3,914.9	12.9	25.5	-0.60	1,367.7	-310.0	831.5	813.9	47.245			
4,100.0	4,014.9	4,354.8	4,014.9	13.0	25.5	-0.60	1,367.7	-310.0	831.5	813.6	46.492			
4,200.0	4,114.9	4,454.8	4,114.9	13.1	25.6	-0.60	1,367.7	-310.0	831.5	813.3	45.757			
4,300.0	4,214.9	4,554.8	4,214.9	13.2	25.6	-0.60	1,367.7	-310.0	831.5	813.0	45.040			
4,400.0	4,314.9	4,654.8	4,314.9	13.3	25.7	-0.60	1,367.7	-310.0	831.5	812.7	44.340			
4,500.0	4,414.9	4,754.8	4,414.9	13.4	25.8	-0.60	1,367.7	-310.0	831.5	812.4	43.657			
4,600.0	4,514.9	4,854.8	4,514.9	13.5	25.8	-0.60	1,367.7	-310.0	831.5	812.1	42.991			
4,700.0	4,614.9	4,954.8	4,614.9	13.6	25.9	-0.60	1,367.7	-310.0	831.5	811.8	42.341			
4,800.0	4,714.9	5,054.8	4,714.9	13.7	25.9	-0.60	1,367.7	-310.0	831.5	811.5	41.707			
4,900.0	4,814.9	5,154.8	4,814.9	13.8	26.0	-0.60	1,367.7	-310.0	831.5	811.2	41.088			
5,000.0	4,914.9	5,254.8	4,914.9	13.9	26.0	-0.60	1,367.7	-310.0	831.5	810.9	40.484			

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 44A-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 44A-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			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	5,014.9	5,354.8	5,014.9	14.0	26.1	-0.60	1,367.7	-310.0	831.5	810.6	20.84	39.895		
5,200.0	5,114.9	5,454.8	5,114.9	14.1	26.2	-0.60	1,367.7	-310.0	831.5	810.3	21.15	39.320		
5,300.0	5,214.9	5,554.8	5,214.9	14.2	26.2	-0.60	1,367.7	-310.0	831.5	810.0	21.45	38.759		
5,400.0	5,314.9	5,654.8	5,314.9	14.3	26.3	-0.60	1,367.7	-310.0	831.5	809.7	21.76	38.212		
5,500.0	5,414.9	5,754.8	5,414.9	14.4	26.4	-0.60	1,367.7	-310.0	831.5	809.4	22.07	37.677		
5,600.0	5,514.9	5,854.8	5,514.9	14.6	26.4	-0.60	1,367.7	-310.0	831.5	809.1	22.38	37.156		
5,700.0	5,614.9	5,954.8	5,614.9	14.7	26.5	-0.60	1,367.7	-310.0	831.5	808.8	22.69	36.647		
5,800.0	5,714.9	6,054.8	5,714.9	14.8	26.6	-0.60	1,367.7	-310.0	831.5	808.5	23.00	36.149		
5,900.0	5,814.9	6,154.8	5,814.9	14.9	26.6	-0.60	1,367.7	-310.0	831.5	808.2	23.31	35.664		
5,925.1	5,840.0	6,179.9	5,840.0	14.9	26.7	-0.60	1,367.7	-310.0	831.5	808.1	23.39	35.544		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 44A-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 44A-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				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	31.247			
200.0	200.0	200.0	200.0	0.3	0.3	27.56	7.1	3.7	8.0	7.4	0.61	13.220			
300.0	300.0	300.0	300.0	0.5	0.5	27.56	7.1	3.7	8.0	7.0	0.95	8.383			
400.0	400.0	400.0	400.0	0.7	0.7	27.56	7.1	3.7	8.0	6.7	1.30	6.138 CC, ES			
500.0	500.0	499.6	499.6	0.8	0.8	47.58	9.5	2.8	9.6	8.0	1.65	5.834 SF			
600.0	599.9	599.0	598.7	1.0	1.0	37.97	16.8	0.1	13.6	11.6	2.01	6.776			
700.0	699.7	698.1	696.9	1.2	1.3	32.22	28.9	-4.3	19.6	17.3	2.37	8.273			
800.0	799.1	796.6	793.8	1.4	1.6	29.02	45.6	-10.4	27.5	24.8	2.74	10.043			
900.0	898.2	894.6	889.1	1.7	2.0	27.21	66.9	-18.1	37.3	34.2	3.13	11.930			
1,000.0	996.6	991.8	982.4	2.0	2.5	26.16	92.5	-27.5	48.8	45.3	3.53	13.844			
1,100.0	1,094.4	1,090.0	1,075.3	2.4	3.1	25.74	122.2	-38.3	61.2	57.3	3.95	15.514			
1,200.0	1,191.5	1,189.5	1,169.4	2.8	3.6	26.56	152.6	-49.4	71.0	66.6	4.43	16.049			
1,300.0	1,287.6	1,289.2	1,263.7	3.3	4.2	28.36	183.1	-60.6	77.7	72.8	4.99	15.587			
1,400.0	1,382.7	1,389.1	1,358.1	3.9	4.8	31.11	213.7	-71.8	81.5	75.8	5.68	14.351			
1,500.0	1,477.3	1,488.9	1,452.5	4.4	5.4	34.25	244.2	-82.9	84.2	77.7	6.51	12.938			
1,600.0	1,571.9	1,588.8	1,547.0	5.0	5.9	37.18	274.8	-94.1	87.1	79.6	7.41	11.742			
1,700.0	1,666.5	1,688.7	1,641.4	5.6	6.5	39.92	305.3	-105.2	90.2	81.8	8.39	10.741			
1,800.0	1,761.1	1,788.5	1,735.8	6.1	7.1	42.48	335.9	-116.4	93.4	84.0	9.43	9.907			
1,900.0	1,855.7	1,888.4	1,830.2	6.7	7.7	44.85	366.4	-127.6	96.9	86.4	10.52	9.213			
2,000.0	1,950.3	1,988.2	1,924.6	7.3	8.3	47.06	397.0	-138.7	100.5	88.9	11.64	8.634			
2,100.0	2,044.9	2,088.1	2,019.0	7.9	8.9	49.12	427.5	-149.9	104.3	91.5	12.80	8.148			
2,200.0	2,139.5	2,188.0	2,113.5	8.5	9.5	51.02	458.1	-161.0	108.2	94.2	13.98	7.738			
2,300.0	2,234.1	2,287.8	2,207.9	9.1	10.1	52.80	488.6	-172.2	112.2	97.0	15.18	7.391			
2,400.0	2,328.9	2,387.7	2,302.3	9.7	10.7	54.24	519.2	-183.4	116.6	100.3	16.33	7.141			
2,500.0	2,424.7	2,487.5	2,396.6	10.2	11.3	54.40	549.7	-194.5	123.0	105.8	17.22	7.144			
2,600.0	2,521.4	2,587.1	2,490.8	10.6	11.9	53.35	580.2	-205.6	131.4	113.6	17.81	7.377			
2,700.0	2,619.0	2,686.4	2,584.7	11.0	12.4	51.36	610.6	-216.7	142.0	123.9	18.14	7.831			
2,800.0	2,717.2	2,785.2	2,678.2	11.3	13.0	48.72	640.8	-227.8	155.1	136.9	18.21	8.516			
2,900.0	2,816.1	2,883.6	2,771.1	11.6	13.6	45.71	670.9	-238.8	170.9	152.8	18.09	9.450			
3,000.0	2,915.4	2,981.2	2,863.4	11.9	14.2	42.57	700.8	-249.7	189.7	171.9	17.81	10.651			
3,100.0	3,015.0	3,078.1	2,955.0	12.0	14.8	39.47	730.4	-260.5	211.6	194.2	17.44	12.135			
3,200.0	3,114.9	3,176.4	3,048.0	12.2	15.4	36.46	760.4	-271.5	236.8	219.7	17.01	13.918			
3,300.0	3,214.9	3,285.4	3,152.4	12.2	15.9	4.31	789.9	-282.2	261.9	245.3	16.58	15.793			
3,400.0	3,314.9	3,397.5	3,261.4	12.3	16.4	2.10	814.3	-291.1	283.3	267.0	16.32	17.361			
3,500.0	3,414.9	3,512.3	3,374.4	12.4	16.7	0.65	833.1	-298.0	299.5	283.3	16.25	18.433			
3,600.0	3,514.9	3,629.2	3,490.5	12.5	16.9	-0.22	845.6	-302.6	310.2	293.9	16.33	18.997			
3,700.0	3,614.9	3,747.3	3,608.4	12.6	17.1	-0.61	851.4	-304.7	315.2	298.7	16.53	19.066			
3,800.0	3,714.9	3,853.7	3,714.9	12.7	17.1	-0.64	851.8	-304.9	315.6	298.8	16.81	18.775			
3,900.0	3,814.9	3,953.7	3,814.9	12.8	17.2	-0.64	851.8	-304.9	315.6	298.5	17.08	18.471			
4,000.0	3,914.9	4,053.7	3,914.9	12.9	17.3	-0.64	851.8	-304.9	315.6	298.2	17.36	18.174			
4,100.0	4,014.9	4,153.7	4,014.9	13.0	17.4	-0.64	851.8	-304.9	315.6	297.9	17.65	17.883			
4,200.0	4,114.9	4,253.7	4,114.9	13.1	17.4	-0.64	851.8	-304.9	315.6	297.6	17.93	17.600			
4,300.0	4,214.9	4,353.7	4,214.9	13.2	17.5	-0.64	851.8	-304.9	315.6	297.3	18.22	17.323			
4,400.0	4,314.9	4,453.7	4,314.9	13.3	17.6	-0.64	851.8	-304.9	315.6	297.1	18.51	17.053			
4,500.0	4,414.9	4,553.7	4,414.9	13.4	17.7	-0.64	851.8	-304.9	315.6	296.8	18.80	16.789			
4,600.0	4,514.9	4,653.7	4,514.9	13.5	17.7	-0.64	851.8	-304.9	315.6	296.5	19.09	16.531			
4,700.0	4,614.9	4,753.7	4,614.9	13.6	17.8	-0.64	851.8	-304.9	315.6	296.2	19.38	16.280			
4,800.0	4,714.9	4,853.7	4,714.9	13.7	17.9	-0.64	851.8	-304.9	315.6	295.9	19.68	16.035			
4,900.0	4,814.9	4,953.7	4,814.9	13.8	18.0	-0.64	851.8	-304.9	315.6	295.6	19.98	15.796			
5,000.0	4,914.9	5,053.7	4,914.9	13.9	18.1	-0.64	851.8	-304.9	315.6	295.3	20.28	15.562			
5,100.0	5,014.9	5,153.7	5,014.9	14.0	18.1	-0.64	851.8	-304.9	315.6	295.0	20.58	15.335			

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 44A-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 44A-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 +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,200.0	5,114.9	5,253.7	5,114.9	14.1	18.2	-0.64	851.8	-304.9	315.6	294.7	20.88	15.112		
5,300.0	5,214.9	5,353.7	5,214.9	14.2	18.3	-0.64	851.8	-304.9	315.6	294.4	21.19	14.895		
5,400.0	5,314.9	5,453.7	5,314.9	14.3	18.4	-0.64	851.8	-304.9	315.6	294.1	21.49	14.684		
5,500.0	5,414.9	5,553.7	5,414.9	14.4	18.5	-0.64	851.8	-304.9	315.6	293.8	21.80	14.477		
5,600.0	5,514.9	5,653.7	5,514.9	14.6	18.6	-0.64	851.8	-304.9	315.6	293.5	22.11	14.275		
5,700.0	5,614.9	5,753.7	5,614.9	14.7	18.7	-0.64	851.8	-304.9	315.6	293.1	22.42	14.078		
5,800.0	5,714.9	5,853.7	5,714.9	14.8	18.8	-0.64	851.8	-304.9	315.6	292.8	22.73	13.886		
5,900.0	5,814.9	5,953.7	5,814.9	14.9	18.9	-0.64	851.8	-304.9	315.6	292.5	23.04	13.698		
5,925.1	5,840.0	5,978.8	5,840.0	14.9	18.9	-0.64	851.8	-304.9	315.6	292.4	23.12	13.652		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 44A-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 44A-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 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	-152.46	-7.1	-3.7	8.0					
100.0	100.0	100.0	100.0	0.1	0.1	-152.46	-7.1	-3.7	8.0	7.7	0.26	31.218		
200.0	200.0	200.0	200.0	0.3	0.3	-152.46	-7.1	-3.7	8.0	7.4	0.61	13.219		
300.0	300.0	300.0	300.0	0.5	0.5	-152.46	-7.1	-3.7	8.0	7.0	0.95	8.385		
400.0	400.0	400.0	400.0	0.7	0.7	-152.46	-7.1	-3.7	8.0	6.7	1.30	6.139 CC		
429.8	429.8	429.8	429.8	0.7	0.7	-123.59	-7.1	-3.7	8.0	6.6	1.41	5.716		
500.0	500.0	500.0	500.0	0.8	0.8	-125.66	-7.1	-3.7	8.2	6.6	1.65	4.992 ES, SF		
600.0	599.9	600.0	600.0	1.0	1.0	-126.92	-5.8	-6.0	10.1	8.1	2.01	5.014		
700.0	699.7	700.0	699.6	1.2	1.2	-117.45	-1.9	-12.8	13.6	11.2	2.40	5.673		
800.0	799.1	799.8	798.7	1.4	1.4	-110.86	3.7	-22.7	19.3	16.4	2.85	6.770		
900.0	898.2	899.5	897.8	1.7	1.7	-114.23	9.5	-32.8	26.3	23.0	3.33	7.900		
1,000.0	996.6	999.0	996.7	2.0	1.9	-121.22	15.2	-42.8	35.1	31.3	3.84	9.146		
1,100.0	1,094.4	1,098.3	1,095.2	2.4	2.2	-128.81	20.9	-52.8	46.3	42.0	4.34	10.679		
1,200.0	1,191.5	1,197.0	1,193.3	2.8	2.4	-135.71	26.6	-62.7	60.4	55.6	4.81	12.571		
1,300.0	1,287.6	1,295.2	1,290.9	3.3	2.7	-141.52	32.2	-72.6	77.8	72.6	5.25	14.818		
1,400.0	1,382.7	1,392.8	1,387.8	3.9	2.9	-146.27	37.8	-82.4	98.6	92.9	5.67	17.379		
1,500.0	1,477.3	1,490.0	1,484.3	4.4	3.2	-149.90	43.4	-92.2	121.2	115.1	6.09	19.894		
1,600.0	1,571.9	1,587.2	1,580.8	5.0	3.4	-152.39	48.9	-102.0	144.0	137.5	6.51	22.115		
1,700.0	1,666.5	1,684.3	1,677.4	5.6	3.7	-154.20	54.5	-111.8	167.1	160.2	6.94	24.078		
1,800.0	1,761.1	1,781.5	1,773.9	6.1	3.9	-155.57	60.1	-121.6	190.3	182.9	7.37	25.818		
1,900.0	1,855.7	1,878.7	1,870.4	6.7	4.2	-156.64	65.7	-131.4	213.6	205.8	7.80	27.368		
2,000.0	1,950.3	1,975.9	1,966.9	7.3	4.5	-157.50	71.3	-141.2	236.9	228.6	8.24	28.756		
2,100.0	2,044.9	2,073.1	2,063.5	7.9	4.7	-158.20	76.8	-150.9	260.2	251.6	8.67	30.005		
2,200.0	2,139.5	2,170.3	2,160.0	8.5	5.0	-158.79	82.4	-160.7	283.6	274.5	9.11	31.134		
2,300.0	2,234.1	2,267.5	2,256.5	9.1	5.2	-159.29	88.0	-170.5	307.1	297.5	9.55	32.160		
2,400.0	2,328.9	2,364.8	2,353.2	9.7	5.5	-159.78	93.6	-180.3	329.9	319.9	10.00	32.998		
2,500.0	2,424.7	2,462.8	2,450.5	10.2	5.7	-160.07	99.2	-190.2	349.8	339.4	10.46	33.440		
2,600.0	2,521.4	2,561.4	2,548.5	10.6	6.0	-160.14	104.9	-200.1	366.5	355.6	10.93	33.522		
2,700.0	2,619.0	2,660.4	2,646.9	11.0	6.3	-160.01	110.5	-210.1	380.0	368.6	11.41	33.290		
2,800.0	2,717.2	2,759.9	2,745.6	11.3	6.5	-159.69	116.3	-220.1	390.2	378.3	11.90	32.781		
2,900.0	2,816.1	2,859.6	2,844.6	11.6	6.8	-159.19	122.0	-230.1	397.2	384.8	12.40	32.030		
3,000.0	2,915.4	2,959.4	2,943.8	11.9	7.1	-158.51	127.7	-240.2	400.9	388.0	12.91	31.065		
3,100.0	3,015.0	3,059.2	3,042.9	12.0	7.3	-157.63	133.4	-250.2	401.5	388.1	13.42	29.914		
3,200.0	3,114.9	3,158.8	3,141.9	12.2	7.6	-156.54	139.2	-260.3	399.0	385.1	13.95	28.598		
3,300.0	3,214.9	3,258.3	3,240.7	12.2	7.9	175.46	144.9	-270.3	393.5	379.0	14.50	27.137		
3,400.0	3,314.9	3,357.6	3,339.3	12.3	8.1	176.88	150.6	-280.3	387.1	372.0	15.08	25.671		
3,500.0	3,414.9	3,453.7	3,434.8	12.4	8.4	178.25	156.0	-289.7	381.0	365.4	15.63	24.376		
3,600.0	3,514.9	3,544.1	3,525.0	12.5	8.5	179.14	159.4	-295.7	377.1	361.1	16.06	23.486		
3,700.0	3,614.9	3,635.0	3,615.8	12.6	8.7	179.49	160.6	-298.0	375.7	359.3	16.37	22.942		
3,737.1	3,652.0	3,671.2	3,652.0	12.6	8.7	179.49	160.7	-298.0	375.7	359.2	16.47	22.802		
3,800.0	3,714.9	3,734.1	3,714.9	12.7	8.8	179.49	160.7	-298.0	375.7	359.0	16.65	22.567		
3,900.0	3,814.9	3,834.1	3,814.9	12.8	8.9	179.49	160.7	-298.0	375.7	358.7	16.92	22.200		
4,000.0	3,914.9	3,934.1	3,914.9	12.9	9.1	179.49	160.7	-298.0	375.7	358.5	17.20	21.841		
4,100.0	4,014.9	4,034.1	4,014.9	13.0	9.2	179.49	160.7	-298.0	375.7	358.2	17.48	21.491		
4,200.0	4,114.9	4,134.1	4,114.9	13.1	9.3	179.49	160.7	-298.0	375.7	357.9	17.76	21.149		
4,300.0	4,214.9	4,234.1	4,214.9	13.2	9.5	179.49	160.7	-298.0	375.7	357.6	18.05	20.815		
4,400.0	4,314.9	4,334.1	4,314.9	13.3	9.6	179.49	160.7	-298.0	375.7	357.3	18.34	20.488		
4,500.0	4,414.9	4,434.1	4,414.9	13.4	9.7	179.49	160.7	-298.0	375.7	357.0	18.62	20.170		
4,600.0	4,514.9	4,534.1	4,514.9	13.5	9.9	179.49	160.7	-298.0	375.7	356.7	18.92	19.859		
4,700.0	4,614.9	4,634.1	4,614.9	13.6	10.0	179.49	160.7	-298.0	375.7	356.4	19.21	19.556		
4,800.0	4,714.9	4,734.1	4,714.9	13.7	10.1	179.49	160.7	-298.0	375.7	356.2	19.50	19.260		
4,900.0	4,814.9	4,834.1	4,814.9	13.8	10.3	179.49	160.7	-298.0	375.7	355.9	19.80	18.971		

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 44A-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 44A-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		
5,000.0	4,914.9	4,934.1	4,914.9	13.9	10.4	179.49	160.7	-298.0	375.7	355.6	20.10	18.689		
5,100.0	5,014.9	5,034.1	5,014.9	14.0	10.6	179.49	160.7	-298.0	375.7	355.3	20.40	18.414		
5,200.0	5,114.9	5,134.1	5,114.9	14.1	10.7	179.49	160.7	-298.0	375.7	355.0	20.70	18.145		
5,300.0	5,214.9	5,234.1	5,214.9	14.2	10.9	179.49	160.7	-298.0	375.7	354.7	21.01	17.883		
5,400.0	5,314.9	5,334.1	5,314.9	14.3	11.0	179.49	160.7	-298.0	375.7	354.3	21.31	17.628		
5,500.0	5,414.9	5,434.1	5,414.9	14.4	11.2	179.49	160.7	-298.0	375.7	354.0	21.62	17.378		
5,600.0	5,514.9	5,534.1	5,514.9	14.6	11.3	179.49	160.7	-298.0	375.7	353.7	21.92	17.135		
5,700.0	5,614.9	5,634.1	5,614.9	14.7	11.5	179.49	160.7	-298.0	375.7	353.4	22.23	16.897		
5,800.0	5,714.9	5,734.1	5,714.9	14.8	11.6	179.49	160.7	-298.0	375.7	353.1	22.54	16.665		
5,900.0	5,814.9	5,834.1	5,814.9	14.9	11.8	179.49	160.7	-298.0	375.7	352.8	22.85	16.438		
5,925.1	5,840.0	5,834.2	5,815.0	14.9	11.8	179.49	160.7	-298.0	376.5	353.6	22.89	16.446		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 44A-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 44A-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 44C-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	-152.45	-14.2	-7.4	16.0					
100.0	100.0	100.0	100.0	0.1	0.1	-152.45	-14.2	-7.4	16.0	15.7	0.26	62.374		
200.0	200.0	200.0	200.0	0.3	0.3	-152.45	-14.2	-7.4	16.0	15.4	0.61	26.422		
300.0	300.0	300.0	300.0	0.5	0.5	-152.45	-14.2	-7.4	16.0	15.0	0.95	16.761		
400.0	400.0	400.0	400.0	0.7	0.7	-152.45	-14.2	-7.4	16.0	14.7	1.30	12.274 CC, ES		
500.0	500.0	499.4	499.4	0.8	0.8	-117.68	-14.6	-9.9	17.9	16.3	1.65	10.823 SF		
600.0	599.9	598.3	597.9	1.0	1.0	-112.29	-16.2	-17.3	25.0	23.0	2.02	12.408		
700.0	699.7	696.4	695.5	1.2	1.2	-116.02	-21.6	-26.4	37.8	35.4	2.39	15.824		
800.0	799.1	795.0	793.4	1.4	1.5	-121.65	-28.5	-35.7	53.8	51.0	2.79	19.283		
900.0	898.2	893.1	890.8	1.7	1.7	-126.84	-35.4	-45.0	72.1	68.9	3.22	22.414		
1,000.0	996.6	990.7	987.7	2.0	2.0	-131.43	-42.3	-54.3	93.1	89.4	3.67	25.371		
1,100.0	1,094.4	1,087.5	1,083.8	2.4	2.2	-135.43	-49.1	-63.4	116.9	112.7	4.14	28.252		
1,200.0	1,191.5	1,183.5	1,179.1	2.8	2.5	-138.88	-55.8	-72.5	143.6	139.0	4.61	31.116		
1,300.0	1,287.6	1,278.5	1,273.5	3.3	2.7	-141.85	-62.5	-81.5	173.4	168.3	5.10	34.000		
1,400.0	1,382.7	1,372.5	1,366.8	3.9	3.0	-144.43	-69.1	-90.5	206.2	200.6	5.59	36.920		
1,500.0	1,477.3	1,466.0	1,459.7	4.4	3.2	-146.80	-75.6	-99.3	240.7	234.6	6.08	39.594		
1,600.0	1,571.9	1,559.4	1,552.5	5.0	3.5	-148.58	-82.2	-108.2	275.4	268.9	6.57	41.926		
1,700.0	1,666.5	1,652.9	1,645.3	5.6	3.7	-149.97	-88.8	-117.0	310.4	303.3	7.06	43.972		
1,800.0	1,761.1	1,746.3	1,738.1	6.1	4.0	-151.07	-95.3	-125.9	345.4	337.9	7.55	45.777		
1,900.0	1,855.7	1,839.8	1,830.9	6.7	4.2	-151.98	-101.9	-134.7	380.6	372.6	8.03	47.380		
2,000.0	1,950.3	1,933.3	1,923.7	7.3	4.5	-152.73	-108.4	-143.6	415.8	407.3	8.52	48.811		
2,100.0	2,044.9	2,026.7	2,016.5	7.9	4.7	-153.36	-115.0	-152.5	451.1	442.1	9.00	50.096		
2,200.0	2,139.5	2,120.2	2,109.4	8.5	5.0	-153.90	-121.6	-161.3	486.4	476.9	9.49	51.256		
2,300.0	2,234.1	2,213.7	2,202.2	9.1	5.2	-154.37	-128.1	-170.2	521.7	511.8	9.97	52.308		
2,400.0	2,328.9	2,307.3	2,295.2	9.7	5.5	-154.93	-134.7	-179.1	556.6	546.1	10.47	53.145		
2,500.0	2,424.7	2,402.0	2,389.2	10.2	5.7	-155.41	-141.3	-188.0	588.7	577.7	10.97	53.648		
2,600.0	2,521.4	2,497.7	2,484.2	10.6	6.0	-155.70	-148.1	-197.1	617.8	606.3	11.47	53.870		
2,700.0	2,619.0	2,594.2	2,580.1	11.0	6.2	-155.82	-154.8	-206.3	643.8	631.8	11.96	53.845		
2,800.0	2,717.2	2,691.5	2,676.7	11.3	6.5	-155.79	-161.7	-215.5	666.7	654.3	12.44	53.608		
2,900.0	2,816.1	2,789.5	2,773.9	11.6	6.8	-155.63	-168.5	-224.8	686.6	673.7	12.91	53.186		
3,000.0	2,915.4	2,887.9	2,871.7	11.9	7.0	-155.34	-175.4	-234.1	703.3	690.0	13.37	52.605		
3,100.0	3,015.0	2,986.8	2,969.9	12.0	7.3	-154.93	-182.4	-243.5	717.0	703.2	13.82	51.886		
3,200.0	3,114.9	3,085.9	3,068.3	12.2	7.6	-154.39	-189.3	-252.9	727.6	713.4	14.25	51.049		
3,300.0	3,214.9	3,185.1	3,166.9	12.2	7.8	-176.95	-196.3	-262.3	735.2	720.5	14.68	50.097		
3,400.0	3,314.9	3,284.5	3,265.5	12.3	8.1	-177.70	-203.3	-271.7	741.8	726.7	15.11	49.098		
3,500.0	3,414.9	3,383.8	3,364.1	12.4	8.4	-178.44	-210.3	-281.1	748.6	733.0	15.54	48.176		
3,600.0	3,514.9	3,505.1	3,484.9	12.5	8.6	-179.19	-217.4	-290.7	754.3	738.4	15.97	47.224		
3,700.0	3,614.9	3,635.3	3,614.9	12.6	8.8	-179.46	-220.0	-294.2	756.3	740.0	16.32	46.348		
3,800.0	3,714.9	3,735.3	3,714.9	12.7	8.9	-179.46	-220.0	-294.2	756.3	739.7	16.59	45.584		
3,900.0	3,814.9	3,835.3	3,814.9	12.8	9.1	-179.46	-220.0	-294.2	756.3	739.5	16.87	44.838		
4,000.0	3,914.9	3,935.3	3,914.9	12.9	9.2	-179.46	-220.0	-294.2	756.3	739.2	17.15	44.109		
4,100.0	4,014.9	4,035.3	4,014.9	13.0	9.3	-179.46	-220.0	-294.2	756.3	738.9	17.43	43.397		
4,200.0	4,114.9	4,135.3	4,114.9	13.1	9.5	-179.46	-220.0	-294.2	756.3	738.6	17.71	42.702		
4,300.0	4,214.9	4,235.3	4,214.9	13.2	9.6	-179.46	-220.0	-294.2	756.3	738.3	18.00	42.023		
4,400.0	4,314.9	4,335.3	4,314.9	13.3	9.7	-179.46	-220.0	-294.2	756.3	738.0	18.29	41.361		
4,500.0	4,414.9	4,435.3	4,414.9	13.4	9.9	-179.46	-220.0	-294.2	756.3	737.8	18.58	40.715		
4,600.0	4,514.9	4,535.3	4,514.9	13.5	10.0	-179.46	-220.0	-294.2	756.3	737.5	18.87	40.084		
4,700.0	4,614.9	4,635.3	4,614.9	13.6	10.1	-179.46	-220.0	-294.2	756.3	737.2	19.16	39.469		
4,800.0	4,714.9	4,735.3	4,714.9	13.7	10.3	-179.46	-220.0	-294.2	756.3	736.9	19.46	38.868		
4,900.0	4,814.9	4,835.3	4,814.9	13.8	10.4	-179.46	-220.0	-294.2	756.3	736.6	19.76	38.283		
5,000.0	4,914.9	4,935.3	4,914.9	13.9	10.6	-179.46	-220.0	-294.2	756.3	736.3	20.06	37.711		
5,100.0	5,014.9	5,035.3	5,014.9	14.0	10.7	-179.46	-220.0	-294.2	756.3	736.0	20.36	37.154		

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

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Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.8ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 44A-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 44C-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	5,114.9	5,135.3	5,114.9	14.1	10.8	179.46	-220.0	-294.2	756.3	735.7	20.66	36.610	
5,300.0	5,214.9	5,235.3	5,214.9	14.2	11.0	179.46	-220.0	-294.2	756.3	735.4	20.96	36.079	
5,400.0	5,314.9	5,335.3	5,314.9	14.3	11.1	179.46	-220.0	-294.2	756.3	735.1	21.27	35.561	
5,500.0	5,414.9	5,435.3	5,414.9	14.4	11.3	179.46	-220.0	-294.2	756.3	734.8	21.58	35.055	
5,600.0	5,514.9	5,535.3	5,514.9	14.6	11.4	179.46	-220.0	-294.2	756.3	734.4	21.88	34.562	
5,700.0	5,614.9	5,635.3	5,614.9	14.7	11.6	179.46	-220.0	-294.2	756.3	734.1	22.19	34.081	
5,800.0	5,714.9	5,735.3	5,714.9	14.8	11.7	179.46	-220.0	-294.2	756.3	733.8	22.50	33.611	
5,863.1	5,778.0	5,798.4	5,778.0	14.9	11.8	179.46	-220.0	-294.2	756.3	733.6	22.70	33.320	
5,900.0	5,814.9	5,825.7	5,805.3	14.9	11.9	179.46	-220.0	-294.2	756.4	733.6	22.80	33.176	
5,925.1	5,840.0	5,825.7	5,805.3	14.9	11.9	179.46	-220.0	-294.2	757.1	734.3	22.84	33.152	

Cathedral Energy Services

Anticollision Report

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Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.8ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 44A-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				Total	Separation	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-152.44	-21.3	-11.1	24.0					
100.0	100.0	100.0	100.0	0.1	0.1	-152.44	-21.3	-11.1	24.0	23.7	0.26	93.473		
200.0	200.0	200.0	200.0	0.3	0.3	-152.44	-21.3	-11.1	24.0	23.4	0.61	39.612		
300.0	300.0	300.0	300.0	0.5	0.5	-152.44	-21.3	-11.1	24.0	23.0	0.95	25.131		
400.0	400.0	400.0	400.0	0.7	0.7	-152.44	-21.3	-11.1	24.0	22.7	1.30	18.403 CC		
428.5	428.5	428.5	428.5	0.7	0.7	-123.25	-21.3	-11.1	24.0	22.6	1.40	17.125		
500.0	500.0	500.0	500.0	0.8	0.8	-123.97	-21.3	-11.1	24.2	22.6	1.65	14.663 ES		
600.0	599.9	599.9	599.9	1.0	1.0	-130.24	-21.3	-11.1	26.3	24.3	2.00	13.144 SF		
700.0	699.7	699.7	699.7	1.2	1.2	-139.96	-21.3	-11.1	31.3	29.0	2.36	13.272		
800.0	799.1	799.1	799.1	1.4	1.3	-149.56	-21.3	-11.1	39.9	37.2	2.71	14.713		
900.0	898.2	898.2	898.2	1.7	1.5	-157.19	-21.3	-11.1	52.4	49.3	3.06	17.139		
1,000.0	996.6	996.6	996.6	2.0	1.7	-162.70	-21.3	-11.1	68.7	65.4	3.39	20.255		
1,100.0	1,094.4	1,094.4	1,094.4	2.4	1.9	-166.59	-21.3	-11.1	88.8	85.1	3.72	23.853		
1,200.0	1,191.5	1,191.5	1,191.5	2.8	2.0	-169.36	-21.3	-11.1	112.5	108.5	4.05	27.799		
1,300.0	1,287.6	1,287.6	1,287.6	3.3	2.2	-171.36	-21.3	-11.1	139.7	135.4	4.37	32.011		
1,400.0	1,382.7	1,382.7	1,382.7	3.9	2.4	-172.84	-21.3	-11.1	170.4	165.7	4.68	36.427		
1,500.0	1,477.3	1,477.3	1,477.3	4.4	2.5	-173.98	-21.3	-11.1	202.6	197.6	5.01	40.417		
1,600.0	1,571.9	1,571.9	1,571.9	5.0	2.7	-174.81	-21.3	-11.1	234.9	229.5	5.35	43.915		
1,700.0	1,666.5	1,666.5	1,666.5	5.6	2.9	-175.44	-21.3	-11.1	267.2	261.5	5.68	47.005		
1,800.0	1,761.1	1,761.1	1,761.1	6.1	3.0	-175.93	-21.3	-11.1	299.5	293.5	6.02	49.754		
1,900.0	1,855.7	1,855.7	1,855.7	6.7	3.2	-176.33	-21.3	-11.1	331.8	325.5	6.35	52.214		
2,000.0	1,950.3	1,950.3	1,950.3	7.3	3.4	-176.66	-21.3	-11.1	364.2	357.5	6.69	54.428		
2,100.0	2,044.9	2,044.9	2,044.9	7.9	3.5	-176.93	-21.3	-11.1	396.5	389.5	7.03	56.432		
2,200.0	2,139.5	2,139.5	2,139.5	8.5	3.7	-177.16	-21.3	-11.1	428.9	421.5	7.36	58.254		
2,300.0	2,234.1	2,234.1	2,234.1	9.1	3.9	-177.36	-21.3	-11.1	461.3	453.6	7.70	59.918		
2,400.0	2,328.9	2,328.9	2,328.9	9.7	4.0	-177.55	-21.3	-11.1	493.0	485.0	8.06	61.184		
2,500.0	2,424.7	2,424.7	2,424.7	10.2	4.2	-177.71	-21.3	-11.1	521.8	513.3	8.43	61.880		
2,600.0	2,521.4	2,521.4	2,521.4	10.6	4.4	-177.83	-21.3	-11.1	547.1	538.3	8.80	62.160		
2,700.0	2,619.0	2,619.0	2,619.0	11.0	4.5	-177.93	-21.3	-11.1	569.1	559.9	9.17	62.076		
2,800.0	2,717.2	2,717.2	2,717.2	11.3	4.7	-178.01	-21.3	-11.1	587.6	578.1	9.53	61.671		
2,900.0	2,816.1	2,816.1	2,816.1	11.6	4.9	-178.07	-21.3	-11.1	602.8	592.9	9.88	60.981		
3,000.0	2,915.4	2,915.4	2,915.4	11.9	5.0	-178.12	-21.3	-11.1	614.4	604.2	10.23	60.037		
3,100.0	3,015.0	3,015.0	3,015.0	12.0	5.2	-178.15	-21.3	-11.1	622.6	612.0	10.58	58.865		
3,200.0	3,114.9	3,114.9	3,114.9	12.2	5.4	-178.16	-21.3	-11.1	627.3	616.4	10.91	57.486		
3,300.0	3,214.9	3,214.9	3,214.9	12.2	5.6	152.50	-21.3	-11.1	628.6	617.3	11.24	55.904		
3,400.0	3,314.9	3,314.9	3,314.9	12.3	5.7	152.50	-21.3	-11.1	628.6	617.0	11.59	54.216		
3,500.0	3,414.9	3,414.9	3,414.9	12.4	5.9	152.50	-21.3	-11.1	628.6	616.6	11.94	52.627		
3,600.0	3,514.9	3,514.9	3,514.9	12.5	6.1	152.50	-21.3	-11.1	628.6	616.3	12.29	51.129		
3,700.0	3,614.9	3,614.9	3,614.9	12.6	6.3	152.50	-21.3	-11.1	628.6	615.9	12.64	49.714		
3,800.0	3,714.9	3,714.9	3,714.9	12.7	6.4	152.50	-21.3	-11.1	628.6	615.6	12.99	48.375		
3,900.0	3,814.9	3,814.9	3,814.9	12.8	6.6	152.50	-21.3	-11.1	628.6	615.2	13.34	47.107		
4,000.0	3,914.9	3,914.9	3,914.9	12.9	6.8	152.50	-21.3	-11.1	628.6	614.9	13.69	45.904		
4,100.0	4,014.9	4,014.9	4,014.9	13.0	7.0	152.50	-21.3	-11.1	628.6	614.6	14.04	44.761		
4,200.0	4,114.9	4,114.9	4,114.9	13.1	7.1	152.50	-21.3	-11.1	628.6	614.2	14.39	43.673		
4,300.0	4,214.9	4,214.9	4,214.9	13.2	7.3	152.50	-21.3	-11.1	628.6	613.9	14.74	42.637		
4,400.0	4,314.9	4,314.9	4,314.9	13.3	7.5	152.50	-21.3	-11.1	628.6	613.5	15.09	41.649		
4,500.0	4,414.9	4,414.9	4,414.9	13.4	7.7	152.50	-21.3	-11.1	628.6	613.2	15.44	40.706		
4,600.0	4,514.9	4,514.9	4,514.9	13.5	7.8	152.50	-21.3	-11.1	628.6	612.8	15.79	39.805		
4,700.0	4,614.9	4,614.9	4,614.9	13.6	8.0	152.50	-21.3	-11.1	628.6	612.5	16.14	38.943		
4,800.0	4,714.9	4,714.9	4,714.9	13.7	8.2	152.50	-21.3	-11.1	628.6	612.1	16.49	38.117		
4,900.0	4,814.9	4,814.9	4,814.9	13.8	8.4	152.50	-21.3	-11.1	628.6	611.8	16.84	37.326		
5,000.0	4,914.9	4,914.9	4,914.9	13.9	8.5	152.50	-21.3	-11.1	628.6	611.4	17.19	36.567		

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 44A-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 44A-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	5,014.9	5,014.9	5,014.9	14.0	8.7	152.50	-21.3	-11.1	628.6	611.1	17.54	35.839		
5,200.0	5,114.9	5,114.9	5,114.9	14.1	8.9	152.50	-21.3	-11.1	628.6	610.7	17.89	35.138		
5,300.0	5,214.9	5,214.9	5,214.9	14.2	9.1	152.50	-21.3	-11.1	628.6	610.4	18.24	34.465		
5,400.0	5,314.9	5,314.9	5,314.9	14.3	9.2	152.50	-21.3	-11.1	628.6	610.0	18.59	33.817		
5,500.0	5,414.9	5,414.9	5,414.9	14.4	9.4	152.50	-21.3	-11.1	628.6	609.7	18.94	33.193		
5,600.0	5,514.9	5,514.9	5,514.9	14.6	9.6	152.50	-21.3	-11.1	628.6	609.3	19.29	32.592		
5,700.0	5,614.9	5,614.9	5,614.9	14.7	9.8	152.50	-21.3	-11.1	628.6	609.0	19.64	32.012		
5,800.0	5,714.9	5,714.9	5,714.9	14.8	9.9	152.50	-21.3	-11.1	628.6	608.6	19.99	31.452		
5,900.0	5,814.9	5,814.9	5,814.9	14.9	10.1	152.50	-21.3	-11.1	628.6	608.3	20.34	30.912		
5,925.1	5,840.0	5,840.0	5,840.0	14.9	10.1	152.50	-21.3	-11.1	628.6	608.2	20.42	30.779		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 44A-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 44A-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 44A-14
 Coordinate System is US State Plane 1927 (Exact solution), Colorado Central 502
 Grid Convergence at Surface is: -1.62°

