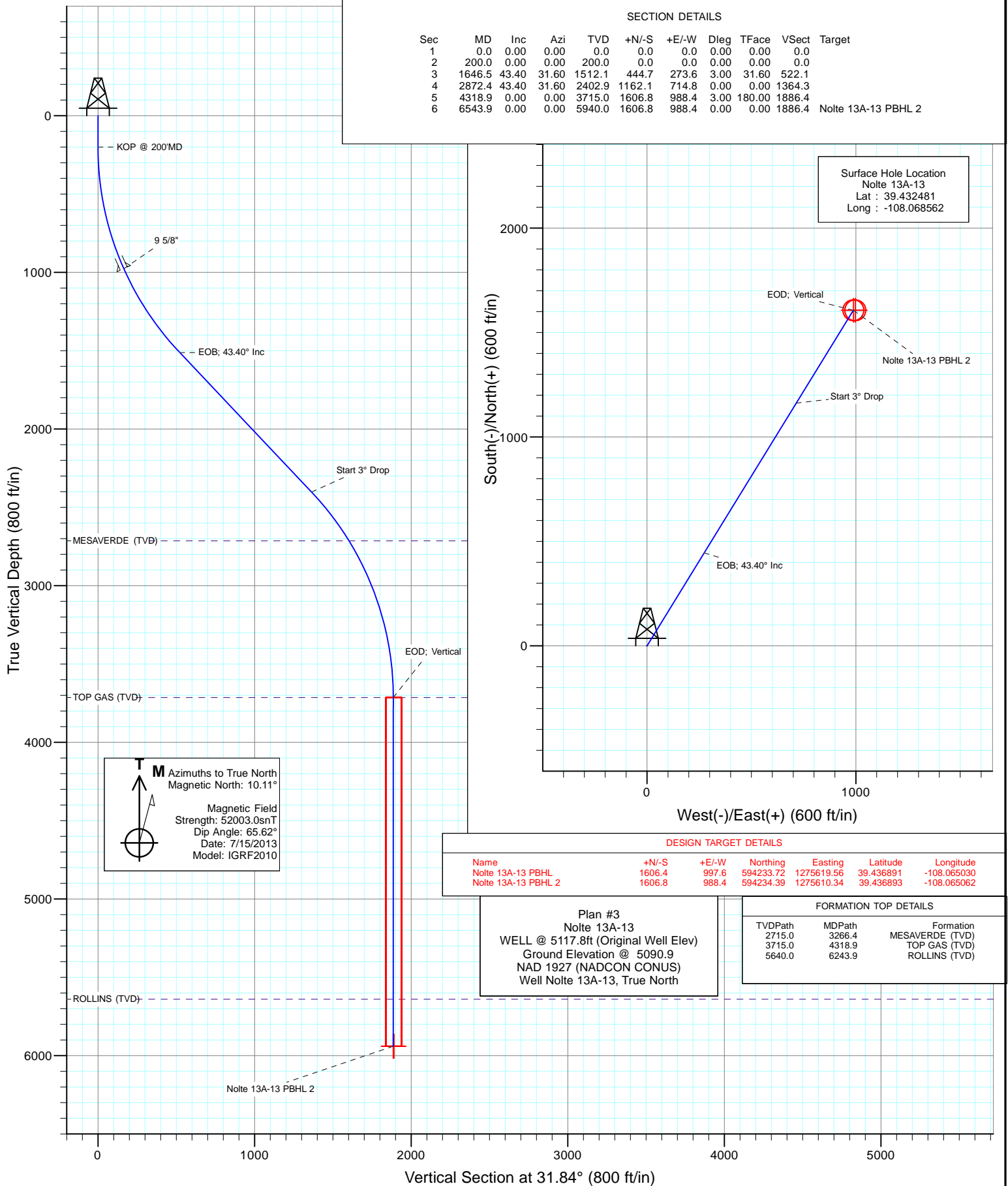




Project: Garfield County, CO
Site: S14-T7S-R96W
Well: Nolte 13A-13
Wellbore: DD
Design: Plan #3



Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Nolte 13A-13
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 13A-13	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 13A-13					
Well Position	+N/-S	0.0 ft	Northing:	592,656.20 ft	Latitude:	39.432481
	+E/-W	0.0 ft	Easting:	1,274,576.95 ft	Longitude:	-108.068562
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	5,090.9 ft

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

Design	Plan #3			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.0	0.0	0.0	31.84

Plan Sections										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)	(°)	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,646.5	43.40	31.60	1,512.1	444.7	273.6	3.00	3.00	0.00	31.60	
2,872.4	43.40	31.60	2,402.9	1,162.1	714.8	0.00	0.00	0.00	0.00	
4,318.9	0.00	0.00	3,715.0	1,606.8	988.4	3.00	-3.00	0.00	180.00	
6,543.9	0.00	0.00	5,940.0	1,606.8	988.4	0.00	0.00	0.00	0.00	Nolte 13A-13 PBHL 2

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Nolte 13A-13
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 13A-13	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	KOP @ 200'MD
300.0	3.00	31.60	300.0	2.2	1.4	2.6	3.00	3.00	
400.0	6.00	31.60	399.6	8.9	5.5	10.5	3.00	3.00	
500.0	9.00	31.60	498.8	20.0	12.3	23.5	3.00	3.00	
600.0	12.00	31.60	597.1	35.5	21.9	41.7	3.00	3.00	
700.0	15.00	31.60	694.3	55.4	34.1	65.1	3.00	3.00	
800.0	18.00	31.60	790.2	79.6	49.0	93.5	3.00	3.00	
900.0	21.00	31.60	884.4	108.0	66.5	126.9	3.00	3.00	
1,000.0	24.00	31.60	976.8	140.6	86.5	165.1	3.00	3.00	9 5/8"
1,100.0	27.00	31.60	1,067.1	177.3	109.1	208.2	3.00	3.00	
1,200.0	30.00	31.60	1,154.9	217.9	134.1	255.9	3.00	3.00	
1,300.0	33.00	31.60	1,240.2	262.4	161.4	308.1	3.00	3.00	
1,400.0	36.00	31.60	1,322.6	310.7	191.1	364.7	3.00	3.00	
1,500.0	39.00	31.60	1,401.9	362.5	223.0	425.6	3.00	3.00	
1,600.0	42.00	31.60	1,477.9	417.8	257.0	490.6	3.00	3.00	
1,646.5	43.40	31.60	1,512.1	444.7	273.5	522.1	3.00	3.00	EOB; 43.40° Inc
1,700.0	43.40	31.60	1,551.0	476.0	292.8	558.8	0.00	0.00	
1,800.0	43.40	31.60	1,623.7	534.5	328.8	627.5	0.00	0.00	
1,900.0	43.40	31.60	1,696.3	593.0	364.8	696.2	0.00	0.00	
2,000.0	43.40	31.60	1,769.0	651.6	400.8	765.0	0.00	0.00	
2,100.0	43.40	31.60	1,841.6	710.1	436.8	833.7	0.00	0.00	
2,200.0	43.40	31.60	1,914.3	768.6	472.8	902.4	0.00	0.00	
2,300.0	43.40	31.60	1,987.0	827.1	508.8	971.1	0.00	0.00	
2,400.0	43.40	31.60	2,059.6	885.6	544.8	1,039.8	0.00	0.00	
2,500.0	43.40	31.60	2,132.3	944.2	580.8	1,108.5	0.00	0.00	
2,600.0	43.40	31.60	2,205.0	1,002.7	616.8	1,177.2	0.00	0.00	
2,700.0	43.40	31.60	2,277.6	1,061.2	652.8	1,245.9	0.00	0.00	
2,800.0	43.40	31.60	2,350.3	1,119.7	688.8	1,314.6	0.00	0.00	
2,872.4	43.40	31.60	2,402.9	1,162.1	714.8	1,364.3	0.00	0.00	Start 3° Drop
2,900.0	42.57	31.60	2,423.1	1,178.1	724.7	1,383.1	3.00	-3.00	
3,000.0	39.57	31.60	2,498.5	1,234.1	759.1	1,448.8	3.00	-3.00	
3,100.0	36.57	31.60	2,577.2	1,286.6	791.4	1,510.5	3.00	-3.00	
3,200.0	33.57	31.60	2,659.0	1,335.5	821.5	1,567.9	3.00	-3.00	
3,266.4	31.57	31.60	2,715.0	1,366.0	840.2	1,603.7	3.00	-3.00	MESAVERDE (TVD)
3,300.0	30.57	31.60	2,743.8	1,380.7	849.3	1,621.0	3.00	-3.00	
3,400.0	27.57	31.60	2,831.1	1,422.1	874.8	1,669.6	3.00	-3.00	
3,500.0	24.57	31.60	2,921.0	1,459.5	897.8	1,713.5	3.00	-3.00	
3,600.0	21.57	31.60	3,013.0	1,492.9	918.3	1,752.7	3.00	-3.00	
3,700.0	18.57	31.60	3,106.9	1,522.1	936.3	1,787.0	3.00	-3.00	
3,800.0	15.57	31.60	3,202.5	1,547.1	951.7	1,816.3	3.00	-3.00	
3,900.0	12.57	31.60	3,299.5	1,567.8	964.4	1,840.6	3.00	-3.00	
4,000.0	9.57	31.60	3,397.6	1,584.1	974.4	1,859.8	3.00	-3.00	
4,100.0	6.57	31.60	3,496.6	1,596.1	981.8	1,873.9	3.00	-3.00	
4,200.0	3.57	31.60	3,596.2	1,603.6	986.4	1,882.7	3.00	-3.00	
4,300.0	0.57	31.60	3,696.1	1,606.7	988.3	1,886.3	3.00	-3.00	
4,318.9	0.00	0.00	3,715.0	1,606.8	988.4	1,886.4	3.00	-3.00	EOD; Vertical - TOP GAS (TVD)
4,400.0	0.00	0.00	3,796.1	1,606.8	988.4	1,886.4	0.00	0.00	
4,500.0	0.00	0.00	3,896.1	1,606.8	988.4	1,886.4	0.00	0.00	
4,600.0	0.00	0.00	3,996.1	1,606.8	988.4	1,886.4	0.00	0.00	
4,700.0	0.00	0.00	4,096.1	1,606.8	988.4	1,886.4	0.00	0.00	

Cathedral Energy Services

Planning Report

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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 13A-13	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #3		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
4,800.0	0.00	0.00	4,196.1	1,606.8	988.4	1,886.4	0.00	0.00	
4,900.0	0.00	0.00	4,296.1	1,606.8	988.4	1,886.4	0.00	0.00	
5,000.0	0.00	0.00	4,396.1	1,606.8	988.4	1,886.4	0.00	0.00	
5,100.0	0.00	0.00	4,496.1	1,606.8	988.4	1,886.4	0.00	0.00	
5,200.0	0.00	0.00	4,596.1	1,606.8	988.4	1,886.4	0.00	0.00	
5,300.0	0.00	0.00	4,696.1	1,606.8	988.4	1,886.4	0.00	0.00	
5,400.0	0.00	0.00	4,796.1	1,606.8	988.4	1,886.4	0.00	0.00	
5,500.0	0.00	0.00	4,896.1	1,606.8	988.4	1,886.4	0.00	0.00	
5,600.0	0.00	0.00	4,996.1	1,606.8	988.4	1,886.4	0.00	0.00	
5,700.0	0.00	0.00	5,096.1	1,606.8	988.4	1,886.4	0.00	0.00	
5,800.0	0.00	0.00	5,196.1	1,606.8	988.4	1,886.4	0.00	0.00	
5,900.0	0.00	0.00	5,296.1	1,606.8	988.4	1,886.4	0.00	0.00	
6,000.0	0.00	0.00	5,396.1	1,606.8	988.4	1,886.4	0.00	0.00	
6,100.0	0.00	0.00	5,496.1	1,606.8	988.4	1,886.4	0.00	0.00	
6,200.0	0.00	0.00	5,596.1	1,606.8	988.4	1,886.4	0.00	0.00	
6,243.9	0.00	0.00	5,640.0	1,606.8	988.4	1,886.4	0.00	0.00	ROLLINS (TVD)
6,300.0	0.00	0.00	5,696.1	1,606.8	988.4	1,886.4	0.00	0.00	
6,400.0	0.00	0.00	5,796.1	1,606.8	988.4	1,886.4	0.00	0.00	
6,500.0	0.00	0.00	5,896.1	1,606.8	988.4	1,886.4	0.00	0.00	
6,543.9	0.00	0.00	5,940.0	1,606.8	988.4	1,886.4	0.00	0.00	PBHL @ 6,543' 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 13A-13 PBHL 2	0.00	0.00	5,940.0	1,606.8	988.4	594,234.39	1,275,610.34	39.436893	-108.065062
- plan hits target center									
- Circle (radius 50.0)									
Nolte 13A-13 PBHL	0.00	0.00	5,940.0	1,606.4	997.6	594,233.72	1,275,619.56	39.436891	-108.065030
- plan misses target center by 9.2ft at 6543.9ft MD (5940.0 TVD, 1606.8 N, 988.4 E)									
- Circle (radius 50.0)									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,000.0	976.8	9 5/8"	9.625	12.250	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,266.4	2,715.0	MESAVERDE (TVD)		0.00	
4,318.9	3,715.0	TOP GAS (TVD)		0.00	
6,243.9	5,640.0	ROLLINS (TVD)		0.00	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Nolte 13A-13
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 13A-13	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)	
200.0	200.0	0.0	0.0	KOP @ 200'MD
1,646.5	1,512.1	444.7	273.5	EOB; 43.40° Inc
2,872.4	2,402.9	1,162.1	714.8	Start 3° Drop
4,318.9	3,715.0	1,606.8	988.4	EOD; Vertical
6,543.9	5,940.0	1,606.8	988.4	PBHL @ 6,543' MD

Caerus Oil & Gas (NAD 27)

Garfield County, CO

S14-T7S-R96W

Nolte 13A-13

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 13A-13
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 13A-13	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

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

Survey Tool Program	Date	8/29/2013		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	6,543.9	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	200.0	200.0	49.0	48.4	81.135	CC, ES
Nolte 11A-24 - DD - Plan #3	500.0	495.3	76.4	74.7	45.422	SF
Nolte 11B-24 - DD - Plan #3	200.0	200.0	56.9	56.3	94.105	CC, ES
Nolte 11B-24 - DD - Plan #3	500.0	490.5	93.2	91.4	53.583	SF
Nolte 11C-24 - DD - Plan #3	200.0	190.3	64.8	64.2	107.112	CC, ES
Nolte 11C-24 - DD - Plan #3	500.0	481.9	96.7	95.1	57.495	SF
Nolte 13B-13 - DD - Plan #3	200.0	200.0	8.0	7.4	13.242	CC, ES
Nolte 13B-13 - DD - Plan #3	1,500.0	1,513.0	59.4	46.1	4.480	SF
Nolte 13C-13 - DD - Plan #3	200.0	199.8	10.0	9.4	16.580	CC, ES
Nolte 13C-13 - DD - Plan #3	1,200.0	1,194.4	73.8	63.1	6.921	SF
Nolte 13D-13 - DD - Plan #3	200.0	200.0	12.8	12.2	21.221	CC, ES
Nolte 13D-13 - DD - Plan #3	1,200.0	1,198.9	128.1	119.2	14.396	SF
Nolte 14A-13 - DD - Plan #3	200.0	200.0	18.9	18.3	31.261	CC, ES
Nolte 14A-13 - DD - Plan #3	400.0	399.6	28.0	26.7	21.431	SF
Nolte 14B-13 - DD - Plan #3	200.0	200.0	26.0	25.4	43.055	CC, ES
Nolte 14B-13 - DD - Plan #3	400.0	399.6	35.7	34.3	27.339	SF
Nolte 14C-13 - DD - Plan #3	200.0	200.0	33.0	32.4	54.636	CC, ES
Nolte 14C-13 - DD - Plan #3	400.0	399.6	42.9	41.6	32.943	SF
Nolte 14D-13 - DD - Plan #3	200.0	200.0	41.2	40.6	68.236	CC, ES
Nolte 14D-13 - DD - Plan #3	500.0	497.9	64.6	62.9	39.074	SF
Nolte 43A-14 - DD - Plan #3	200.0	200.0	16.0	15.4	26.482	CC, ES
Nolte 43A-14 - DD - Plan #3	400.0	400.6	24.5	23.2	18.803	SF
Nolte 43B-14 - DD - Plan #3	200.0	200.0	24.0	23.4	39.705	CC, ES
Nolte 43B-14 - DD - Plan #3	1,500.0	1,466.3	315.6	302.8	24.751	SF
Nolte 43C-14 - DD - Plan #3	200.0	200.0	32.0	31.4	52.904	CC, ES
Nolte 43C-14 - DD - Plan #3	400.0	399.6	42.4	41.1	32.673	SF
Nolte 44A-14 - DD - Plan #3	200.0	200.0	40.0	39.4	66.111	CC, ES
Nolte 44A-14 - DD - Plan #3	500.0	499.3	63.2	61.6	38.531	SF
Nolte 44B-14 - DD - Plan #3	200.0	200.0	48.0	47.4	79.326	CC, ES
Nolte 44B-14 - DD - Plan #3	500.0	498.8	71.5	69.8	43.561	SF
Nolte 44C-14 - DD - Plan #3	200.0	200.0	56.0	55.4	92.520	CC, ES
Nolte 44C-14 - DD - Plan #3	500.0	496.2	81.0	79.4	49.456	SF
Nolte SWD 1-14 - DD - Plan #3	200.0	200.0	64.0	63.4	105.702	CC, ES
Nolte SWD 1-14 - DD - Plan #3	500.0	498.8	87.4	85.8	53.294	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 13A-13
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 13A-13	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						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	-164.25	-47.2	-13.3	49.0					
100.0	100.0	100.0	100.0	0.1	0.1	-164.25	-47.2	-13.3	49.0	48.8	0.26	192.127		
200.0	200.0	200.0	200.0	0.3	0.3	-164.25	-47.2	-13.3	49.0	48.4	0.60	81.135 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	164.92	-47.2	-13.3	51.5	50.6	0.95	54.084		
400.0	399.6	398.3	398.2	0.7	0.7	164.62	-48.9	-11.5	60.3	59.0	1.30	46.203		
500.0	498.8	495.3	494.9	1.0	0.9	161.99	-54.0	-6.1	76.4	74.7	1.68	45.422 SF		
600.0	597.1	590.0	588.9	1.4	1.1	158.73	-62.3	2.7	100.0	97.9	2.11	47.476		
700.0	694.3	681.8	679.3	1.8	1.4	155.69	-73.3	14.3	131.1	128.6	2.59	50.571		
800.0	790.2	769.9	765.2	2.3	1.8	153.08	-86.7	28.5	169.5	166.3	3.14	53.889		
900.0	884.4	853.8	846.1	3.0	2.2	150.86	-102.0	44.6	214.7	210.9	3.76	57.088		
1,000.0	976.8	933.0	921.5	3.7	2.7	148.91	-118.7	62.2	266.3	261.8	4.43	60.050		
1,100.0	1,067.1	1,007.4	991.3	4.5	3.1	147.12	-136.2	80.7	323.8	318.6	5.16	62.747		
1,200.0	1,154.9	1,076.6	1,055.4	5.4	3.6	145.40	-154.3	99.8	386.8	380.9	5.95	65.033		
1,300.0	1,240.2	1,140.8	1,113.9	6.4	4.1	143.67	-172.4	118.9	454.8	448.0	6.79	67.006		
1,400.0	1,322.6	1,200.0	1,167.1	7.4	4.6	141.85	-190.3	137.8	527.3	519.6	7.68	68.677		
1,500.0	1,401.9	1,253.7	1,214.6	8.6	5.1	139.88	-207.6	156.0	603.8	595.2	8.64	69.855		
1,600.0	1,477.9	1,300.0	1,254.9	9.8	5.5	137.65	-223.1	172.5	683.9	674.2	9.67	70.707		
1,700.0	1,551.0	1,347.5	1,295.8	11.1	6.0	136.85	-239.8	190.1	766.9	756.1	10.73	71.489		
1,800.0	1,623.7	1,400.0	1,340.2	12.4	6.5	137.31	-259.1	210.4	851.0	839.2	11.75	72.404		
1,900.0	1,696.3	1,435.8	1,370.1	13.6	6.9	137.52	-272.6	224.7	935.6	922.9	12.74	73.434		
2,000.0	1,769.0	1,488.6	1,414.1	14.9	7.4	137.77	-292.6	245.8	1,020.5	1,006.7	13.79	74.017		
2,100.0	1,841.6	1,541.5	1,458.2	16.2	8.0	137.98	-312.7	267.0	1,105.4	1,090.5	14.84	74.499		
2,200.0	1,914.3	1,594.3	1,502.3	17.5	8.5	138.16	-332.7	288.1	1,190.3	1,174.4	15.89	74.912		
2,300.0	1,987.0	1,647.1	1,546.4	18.7	9.1	138.32	-352.7	309.3	1,275.1	1,258.2	16.94	75.260		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 13A-13
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 13A-13	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	-162.60	-54.3	-17.0	56.9					
100.0	100.0	100.0	100.0	0.1	0.1	-162.60	-54.3	-17.0	56.9	56.6	0.26	222.751		
200.0	200.0	200.0	200.0	0.3	0.3	-162.60	-54.3	-17.0	56.9	56.3	0.60	94.105 CC, ES		
300.0	300.0	298.2	298.2	0.5	0.5	164.37	-56.2	-15.4	60.9	59.9	0.96	63.654		
400.0	399.6	395.4	395.0	0.7	0.7	161.03	-62.0	-10.7	72.9	71.6	1.33	54.822		
500.0	498.8	490.5	489.4	1.0	1.0	157.36	-71.4	-3.1	93.2	91.4	1.74	53.583 SF		
600.0	597.1	582.7	580.2	1.4	1.3	154.21	-83.9	7.1	121.5	119.4	2.19	55.458		
700.0	694.3	671.2	666.4	1.8	1.7	151.70	-99.1	19.5	157.7	155.0	2.69	58.556		
800.0	790.2	755.4	747.6	2.3	2.1	149.68	-116.4	33.6	201.2	198.0	3.24	62.022		
900.0	884.4	834.7	823.1	3.0	2.6	147.98	-135.3	49.0	251.6	247.7	3.84	65.481		
1,000.0	976.8	909.0	892.8	3.7	3.0	146.44	-155.1	65.1	308.2	303.7	4.48	68.770		
1,100.0	1,067.1	977.9	956.5	4.5	3.5	144.97	-175.4	81.7	370.6	365.5	5.17	71.673		
1,200.0	1,154.9	1,041.4	1,014.4	5.4	4.0	143.46	-195.7	98.2	438.3	432.4	5.90	74.229		
1,300.0	1,240.2	1,100.0	1,067.1	6.4	4.5	141.84	-215.7	114.5	510.7	504.0	6.68	76.413		
1,400.0	1,322.6	1,152.4	1,113.4	7.4	5.0	140.04	-234.6	129.9	587.2	579.7	7.53	78.028		
1,500.0	1,401.9	1,200.0	1,154.9	8.6	5.4	137.99	-252.7	144.6	667.5	659.1	8.44	79.117		
1,600.0	1,477.9	1,242.9	1,191.9	9.8	5.9	135.61	-269.6	158.4	751.1	741.7	9.46	79.427		
1,700.0	1,551.0	1,281.4	1,224.5	11.1	6.2	134.79	-285.4	171.2	837.3	826.8	10.47	79.980		
1,800.0	1,623.7	1,317.9	1,255.1	12.4	6.6	135.44	-300.8	183.8	924.4	913.0	11.41	81.008		
1,900.0	1,696.3	1,352.7	1,284.0	13.6	7.0	135.93	-315.9	196.1	1,012.3	999.9	12.36	81.908		
2,000.0	1,769.0	1,400.0	1,322.6	14.9	7.5	136.42	-337.1	213.3	1,100.8	1,087.5	13.33	82.576		
2,100.0	1,841.6	1,417.7	1,336.9	16.2	7.7	136.56	-345.2	220.0	1,189.7	1,175.5	14.26	83.446		
2,200.0	1,914.3	1,448.2	1,361.2	17.5	8.1	136.76	-359.4	231.5	1,279.3	1,264.1	15.21	84.091		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 13A-13
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 13A-13	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							
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	-161.35	-61.4	-20.7	65.5				
100.0	100.0	90.3	90.3	0.1	0.1	-161.35	-61.4	-20.7	64.8	64.5	0.26	250.616	
200.0	200.0	190.3	190.3	0.3	0.3	-161.35	-61.4	-20.7	64.8	64.2	0.60	107.112 CC, ES	
300.0	300.0	289.4	289.4	0.5	0.5	167.25	-61.7	-20.5	67.6	66.6	0.95	70.967	
400.0	399.6	386.6	386.4	0.7	0.7	165.79	-65.4	-18.0	78.0	76.7	1.31	59.763	
500.0	498.8	481.9	481.3	1.0	0.9	163.15	-73.0	-12.9	96.7	95.1	1.68	57.495 SF	
600.0	597.1	574.5	572.9	1.4	1.2	160.37	-84.2	-5.4	123.7	121.6	2.09	59.069	
700.0	694.3	663.4	660.2	1.8	1.5	157.89	-98.4	4.1	158.6	156.1	2.55	62.326	
800.0	790.2	747.9	742.3	2.3	1.9	155.78	-115.0	15.2	201.2	198.2	3.04	66.226	
900.0	884.4	827.6	818.9	3.0	2.3	153.97	-133.4	27.5	250.9	247.3	3.57	70.260	
1,000.0	976.8	900.0	887.5	3.7	2.7	152.36	-152.4	40.2	307.2	303.1	4.13	74.317	
1,100.0	1,067.1	971.0	954.0	4.5	3.2	150.80	-173.1	54.0	369.5	364.7	4.76	77.644	
1,200.0	1,154.9	1,034.3	1,012.5	5.4	3.6	149.27	-193.4	67.6	437.3	431.9	5.41	80.766	
1,300.0	1,240.2	1,100.0	1,072.2	6.4	4.1	147.67	-216.0	82.7	510.1	503.9	6.14	83.101	
1,400.0	1,322.6	1,144.3	1,112.0	7.4	4.5	145.89	-232.3	93.6	587.1	580.2	6.88	85.380	
1,500.0	1,401.9	1,200.0	1,161.3	8.6	5.0	143.99	-253.8	107.9	668.1	660.4	7.73	86.462	
1,600.0	1,477.9	1,233.1	1,190.3	9.8	5.3	141.60	-267.1	116.9	752.4	743.7	8.65	86.975	
1,700.0	1,551.0	1,270.4	1,222.6	11.1	5.6	140.72	-282.6	127.3	839.4	829.8	9.58	87.642	
1,800.0	1,623.7	1,300.0	1,247.9	12.4	5.9	141.15	-295.3	135.7	927.3	916.9	10.41	89.063	
1,900.0	1,696.3	1,339.3	1,281.2	13.6	6.3	141.58	-312.7	147.3	1,015.9	1,004.6	11.27	90.152	
2,000.0	1,769.0	1,371.3	1,308.0	14.9	6.6	141.85	-327.2	157.1	1,105.0	1,092.9	12.12	91.177	
2,100.0	1,841.6	1,400.0	1,331.8	16.2	6.9	142.02	-340.6	166.0	1,194.7	1,181.8	12.97	92.123	
2,200.0	1,914.3	1,431.1	1,357.2	17.5	7.3	142.16	-355.4	175.9	1,285.0	1,271.1	13.83	92.881	

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 13A-13
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 13A-13	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				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	-152.44	-7.1	-3.7	8.0					
100.0	100.0	100.0	100.0	0.1	0.1	-152.44	-7.1	-3.7	8.0	7.7	0.25	31.369		
200.0	200.0	200.0	200.0	0.3	0.3	-152.44	-7.1	-3.7	8.0	7.4	0.60	13.242 CC, ES		
300.0	300.0	300.2	300.2	0.5	0.5	176.35	-6.6	-3.3	10.0	9.0	0.95	10.457		
400.0	399.6	400.8	400.6	0.7	0.7	174.52	-2.4	-0.1	12.6	11.3	1.30	9.697		
500.0	498.8	501.4	500.7	1.0	0.9	171.22	6.0	6.4	15.4	13.7	1.66	9.274		
600.0	597.1	602.2	600.2	1.4	1.2	167.16	18.5	16.1	18.3	16.2	2.04	8.954		
700.0	694.3	703.2	698.9	1.8	1.6	162.74	35.2	29.1	21.3	18.9	2.49	8.588		
800.0	790.2	804.2	796.4	2.3	2.1	158.21	56.0	45.2	24.7	21.7	3.06	8.087		
900.0	884.4	905.3	892.5	3.0	2.7	153.73	80.9	64.5	28.4	24.6	3.81	7.459		
1,000.0	976.8	1,006.5	986.9	3.7	3.4	149.41	109.8	86.9	32.5	27.7	4.78	6.785		
1,100.0	1,067.1	1,107.8	1,079.3	4.5	4.2	145.32	142.6	112.4	36.9	30.9	6.01	6.143		
1,200.0	1,154.9	1,209.2	1,169.4	5.4	5.1	141.50	179.3	140.8	41.8	34.3	7.49	5.582		
1,300.0	1,240.2	1,310.7	1,257.0	6.4	6.0	137.95	219.8	172.2	47.1	37.9	9.21	5.112		
1,400.0	1,322.6	1,412.3	1,341.8	7.4	7.1	134.67	263.9	206.4	52.8	41.7	11.17	4.729		
1,500.0	1,401.9	1,513.0	1,423.3	8.6	8.2	132.11	310.7	242.7	59.4	46.1	13.25	4.480 SF		
1,600.0	1,477.9	1,612.5	1,503.3	9.8	9.3	132.80	357.5	279.0	69.0	54.1	14.88	4.637		
1,700.0	1,551.0	1,711.6	1,582.9	11.1	10.4	135.65	404.1	315.1	81.7	65.7	16.01	5.106		
1,800.0	1,623.7	1,810.7	1,662.5	12.4	11.5	138.05	450.7	351.2	95.1	78.0	17.10	5.561		
1,900.0	1,696.3	1,909.7	1,742.1	13.6	12.6	139.85	497.3	387.3	108.5	90.3	18.21	5.960		
2,000.0	1,769.0	2,008.7	1,821.8	14.9	13.7	141.26	543.8	423.4	122.1	102.7	19.35	6.311		
2,100.0	1,841.6	2,107.8	1,901.4	16.2	14.8	142.39	590.4	459.5	135.7	115.2	20.49	6.621		
2,200.0	1,914.3	2,206.8	1,981.0	17.5	15.9	143.31	636.9	495.6	149.3	127.7	21.65	6.896		
2,300.0	1,987.0	2,305.8	2,060.6	18.7	17.0	144.08	683.5	531.7	163.0	140.2	22.82	7.142		
2,400.0	2,059.6	2,404.9	2,140.2	20.0	18.1	144.72	730.1	567.8	176.7	152.7	24.00	7.362		
2,500.0	2,132.3	2,503.9	2,219.8	21.3	19.2	145.28	776.6	603.9	190.4	165.2	25.18	7.561		
2,600.0	2,205.0	2,603.0	2,299.4	22.6	20.3	145.76	823.2	639.9	204.2	177.8	26.37	7.741		
2,700.0	2,277.6	2,702.0	2,379.0	23.9	21.4	146.18	869.7	676.0	217.9	190.3	27.57	7.905		
2,800.0	2,350.3	2,801.0	2,458.6	25.2	22.5	146.55	916.3	712.1	231.7	202.9	28.76	8.054		
2,900.0	2,423.1	2,900.1	2,538.3	26.4	23.6	146.91	962.9	748.2	245.3	215.3	29.96	8.186		
3,000.0	2,498.5	2,993.7	2,614.0	27.6	24.6	147.02	1,006.4	782.0	256.3	225.1	31.27	8.198		
3,100.0	2,577.2	3,083.5	2,688.8	28.7	25.5	147.09	1,045.5	812.3	266.5	234.0	32.48	8.204		
3,200.0	2,659.0	3,173.0	2,765.8	29.7	26.3	147.15	1,081.7	840.4	275.9	242.3	33.60	8.213		
3,300.0	2,743.8	3,262.3	2,844.5	30.7	27.1	147.22	1,115.0	866.2	284.7	250.1	34.61	8.224		
3,400.0	2,831.1	3,351.4	2,925.0	31.5	27.7	147.29	1,145.3	889.6	292.7	257.1	35.53	8.236		
3,500.0	2,921.0	3,440.3	3,006.9	32.3	28.3	147.35	1,172.5	910.7	299.9	263.6	36.35	8.250		
3,600.0	3,013.0	3,529.1	3,090.3	32.9	28.9	147.42	1,196.6	929.4	306.4	269.4	37.08	8.265		
3,700.0	3,106.9	3,617.7	3,174.8	33.5	29.3	147.48	1,217.6	945.7	312.2	274.5	37.70	8.280		
3,800.0	3,202.5	3,706.1	3,260.3	34.0	29.7	147.54	1,235.4	959.5	317.1	278.9	38.22	8.296		
3,900.0	3,299.5	3,800.0	3,352.1	34.4	30.0	147.60	1,250.9	971.5	321.3	282.7	38.66	8.311		
4,000.0	3,397.6	3,882.7	3,433.7	34.7	30.2	147.66	1,261.6	979.8	324.6	285.6	38.97	8.329		
4,100.0	3,496.6	3,970.9	3,521.2	35.0	30.4	147.72	1,269.9	986.2	327.2	288.0	39.20	8.346		
4,200.0	3,596.2	4,059.0	3,609.1	35.1	30.5	147.77	1,275.0	990.2	328.9	289.6	39.34	8.361		
4,300.0	3,696.1	4,147.1	3,697.2	35.2	30.6	147.82	1,276.9	991.7	329.8	290.4	39.39	8.373		
4,400.0	3,796.1	4,246.1	3,796.1	35.2	30.6	179.42	1,276.9	991.7	329.9	290.4	39.50	8.351		
4,500.0	3,896.1	4,346.1	3,896.1	35.2	30.6	179.42	1,276.9	991.7	329.9	290.3	39.64	8.323		
4,600.0	3,996.1	4,446.1	3,996.1	35.3	30.7	179.42	1,276.9	991.7	329.9	290.1	39.77	8.294		
4,700.0	4,096.1	4,546.1	4,096.1	35.3	30.7	179.42	1,276.9	991.7	329.9	290.0	39.91	8.265		
4,800.0	4,196.1	4,646.1	4,196.1	35.4	30.8	179.42	1,276.9	991.7	329.9	289.8	40.06	8.236		
4,900.0	4,296.1	4,746.1	4,296.1	35.4	30.8	179.42	1,276.9	991.7	329.9	289.7	40.20	8.206		
5,000.0	4,396.1	4,846.1	4,396.1	35.4	30.9	179.42	1,276.9	991.7	329.9	289.5	40.35	8.177		
5,100.0	4,496.1	4,946.1	4,496.1	35.5	30.9	179.42	1,276.9	991.7	329.9	289.4	40.50	8.146		

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 13A-13
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 13A-13	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		
5,200.0	4,596.1	5,046.1	4,596.1	35.5	31.0	179.42	1,276.9	991.7	329.9	289.2	40.65	8.116		
5,300.0	4,696.1	5,146.1	4,696.1	35.6	31.0	179.42	1,276.9	991.7	329.9	289.1	40.80	8.085		
5,400.0	4,796.1	5,246.1	4,796.1	35.6	31.1	179.42	1,276.9	991.7	329.9	288.9	40.96	8.055		
5,500.0	4,896.1	5,346.1	4,896.1	35.7	31.1	179.42	1,276.9	991.7	329.9	288.8	41.12	8.023		
5,600.0	4,996.1	5,446.1	4,996.1	35.7	31.2	179.42	1,276.9	991.7	329.9	288.6	41.28	7.992		
5,700.0	5,096.1	5,546.1	5,096.1	35.8	31.2	179.42	1,276.9	991.7	329.9	288.5	41.44	7.961		
5,800.0	5,196.1	5,646.1	5,196.1	35.8	31.3	179.42	1,276.9	991.7	329.9	288.3	41.61	7.929		
5,900.0	5,296.1	5,746.1	5,296.1	35.9	31.3	179.42	1,276.9	991.7	329.9	288.1	41.77	7.897		
6,000.0	5,396.1	5,846.1	5,396.1	35.9	31.4	179.42	1,276.9	991.7	329.9	287.9	41.94	7.865		
6,100.0	5,496.1	5,946.1	5,496.1	36.0	31.4	179.42	1,276.9	991.7	329.9	287.8	42.12	7.833		
6,200.0	5,596.1	6,046.1	5,596.1	36.0	31.5	179.42	1,276.9	991.7	329.9	287.6	42.29	7.801		
6,300.0	5,696.1	6,146.1	5,696.1	36.1	31.6	179.42	1,276.9	991.7	329.9	287.4	42.47	7.768		
6,400.0	5,796.1	6,246.1	5,796.1	36.1	31.6	179.42	1,276.9	991.7	329.9	287.2	42.65	7.736		
6,500.0	5,896.1	6,346.1	5,896.1	36.2	31.7	179.42	1,276.9	991.7	329.9	287.1	42.83	7.703		
6,524.9	5,921.1	6,371.0	5,921.1	36.2	31.7	179.42	1,276.9	991.7	329.9	287.0	42.87	7.695		
6,543.9	5,940.0	6,380.0	5,930.0	36.2	31.7	179.42	1,276.9	991.7	330.0	287.1	42.90	7.694		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 13A-13
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 13A-13	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	117.55	-4.6	8.9	10.0					
100.0	100.0	99.8	99.8	0.1	0.1	117.55	-4.6	8.9	10.0	9.7	0.25	39.324		
200.0	200.0	199.8	199.8	0.3	0.3	117.55	-4.6	8.9	10.0	9.4	0.60	16.580	CC, ES	
300.0	300.0	299.6	299.6	0.5	0.5	86.70	-2.8	10.7	10.6	9.7	0.97	10.989		
400.0	399.6	399.4	399.1	0.7	0.7	88.38	2.6	16.4	12.6	11.2	1.41	8.939		
500.0	498.8	499.2	498.0	1.0	1.0	90.22	11.6	25.7	15.8	13.8	1.97	8.026		
600.0	597.1	598.9	596.0	1.4	1.4	91.78	24.2	38.7	20.4	17.7	2.69	7.565		
700.0	694.3	698.5	692.8	1.8	1.8	92.94	40.3	55.4	26.2	22.6	3.58	7.310		
800.0	790.2	797.9	788.2	2.3	2.3	93.75	59.8	75.7	33.3	28.6	4.65	7.157		
900.0	884.4	897.3	881.9	3.0	3.0	94.31	82.8	99.4	41.6	35.7	5.90	7.058		
1,000.0	976.8	996.4	973.5	3.7	3.7	94.67	109.0	126.6	51.2	43.9	7.32	6.991		
1,100.0	1,067.1	1,095.4	1,063.0	4.5	4.5	94.89	138.5	157.2	61.9	53.0	8.92	6.942		
1,200.0	1,154.9	1,194.4	1,150.3	5.4	5.4	95.37	170.8	190.7	73.8	63.1	10.66	6.921	SF	
1,300.0	1,240.2	1,293.5	1,237.4	6.4	6.2	98.51	203.7	224.8	86.4	73.9	12.48	6.921		
1,400.0	1,322.6	1,392.1	1,324.0	7.4	7.1	103.65	236.5	258.7	100.4	86.1	14.28	7.028		
1,500.0	1,401.9	1,490.0	1,409.9	8.6	8.0	109.77	269.0	292.4	116.8	100.8	15.93	7.330		
1,600.0	1,477.9	1,586.8	1,495.0	9.8	8.8	116.13	301.1	325.7	136.5	119.2	17.32	7.880		
1,700.0	1,551.0	1,682.6	1,579.1	11.1	9.7	122.34	332.9	358.6	160.0	141.6	18.41	8.692		
1,800.0	1,623.7	1,778.2	1,663.1	12.4	10.6	127.30	364.6	391.5	185.4	166.0	19.37	9.572		
1,900.0	1,696.3	1,873.9	1,747.1	13.6	11.4	131.07	396.4	424.4	211.7	191.4	20.29	10.435		
2,000.0	1,769.0	1,969.5	1,831.1	14.9	12.3	134.01	428.1	457.3	238.7	217.5	21.21	11.258		
2,100.0	1,841.6	2,065.1	1,915.1	16.2	13.1	136.35	459.9	490.2	266.2	244.1	22.13	12.030		
2,200.0	1,914.3	2,160.8	1,999.1	17.5	14.0	138.26	491.6	523.1	294.0	271.0	23.06	12.749		
2,300.0	1,987.0	2,256.4	2,083.1	18.7	14.8	139.83	523.4	556.0	322.1	298.1	24.01	13.416		
2,400.0	2,059.6	2,352.0	2,167.1	20.0	15.7	141.16	555.1	588.9	350.4	325.4	24.97	14.034		
2,500.0	2,132.3	2,447.6	2,251.1	21.3	16.6	142.29	586.9	621.8	378.8	352.9	25.93	14.607		
2,600.0	2,205.0	2,543.3	2,335.1	22.6	17.4	143.26	618.6	654.7	407.3	380.4	26.91	15.138		
2,700.0	2,277.6	2,638.9	2,419.1	23.9	18.3	144.10	650.4	687.6	435.9	408.1	27.89	15.631		
2,800.0	2,350.3	2,734.5	2,503.0	25.2	19.1	144.84	682.1	720.5	464.6	435.8	28.88	16.090		
2,900.0	2,423.1	2,830.2	2,587.1	26.4	20.0	145.62	713.9	753.4	493.3	463.4	29.84	16.529		
3,000.0	2,498.5	2,926.8	2,672.0	27.6	20.9	146.39	746.0	786.6	518.8	488.0	30.84	16.824		
3,100.0	2,577.2	3,024.5	2,757.8	28.7	21.7	146.73	778.4	820.2	540.1	508.1	32.03	16.865		
3,200.0	2,659.0	3,110.1	2,833.4	29.7	22.5	146.83	806.1	849.0	558.1	524.9	33.20	16.809		
3,300.0	2,743.8	3,200.0	2,914.7	30.7	23.1	146.93	832.8	876.6	574.6	540.3	34.30	16.754		
3,400.0	2,831.1	3,273.4	2,982.3	31.5	23.6	147.04	852.6	897.1	589.7	554.5	35.18	16.760		
3,500.0	2,921.0	3,354.8	3,058.6	32.3	24.1	147.15	872.4	917.7	603.4	567.3	36.02	16.750		
3,600.0	3,013.0	3,436.1	3,135.9	32.9	24.6	147.25	890.0	935.9	615.6	578.8	36.76	16.747		
3,700.0	3,106.9	3,517.4	3,214.1	33.5	24.9	147.34	905.2	951.6	626.4	589.0	37.40	16.749		
3,800.0	3,202.5	3,600.0	3,294.5	34.0	25.3	147.43	918.3	965.2	635.7	597.8	37.94	16.755		
3,900.0	3,299.5	3,679.5	3,372.7	34.4	25.5	147.52	928.6	975.9	643.5	605.2	38.36	16.775		
4,000.0	3,397.6	3,760.5	3,452.8	34.7	25.7	147.61	936.7	984.3	649.8	611.2	38.69	16.797		
4,100.0	3,496.6	3,841.4	3,533.3	35.0	25.8	147.68	942.5	990.3	654.7	615.7	38.92	16.822		
4,200.0	3,596.2	3,922.3	3,614.0	35.1	25.9	147.76	946.0	993.9	657.9	618.9	39.05	16.850		
4,300.0	3,696.1	4,004.3	3,695.9	35.2	26.0	147.82	947.0	995.0	659.7	620.6	39.09	16.878		
4,400.0	3,796.1	4,104.3	3,795.9	35.2	26.0	179.43	947.0	995.0	659.8	620.6	39.20	16.830		
4,500.0	3,896.1	4,204.3	3,895.9	35.2	26.1	179.43	947.0	995.0	659.8	620.5	39.34	16.773		
4,600.0	3,996.1	4,304.3	3,995.9	35.3	26.1	179.43	947.0	995.0	659.8	620.3	39.47	16.715		
4,700.0	4,096.1	4,404.3	4,095.9	35.3	26.2	179.43	947.0	995.0	659.8	620.2	39.61	16.657		
4,800.0	4,196.1	4,504.3	4,195.9	35.4	26.2	179.43	947.0	995.0	659.8	620.0	39.75	16.598		
4,900.0	4,296.1	4,604.3	4,295.9	35.4	26.3	179.43	947.0	995.0	659.8	619.9	39.89	16.539		
5,000.0	4,396.1	4,704.3	4,395.9	35.4	26.3	179.43	947.0	995.0	659.8	619.7	40.04	16.479		
5,100.0	4,496.1	4,804.3	4,495.9	35.5	26.4	179.43	947.0	995.0	659.8	619.6	40.19	16.418		

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 13A-13
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 13A-13	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	
5,200.0	4,596.1	4,904.3	4,595.9	35.5	26.4	179.43	947.0	995.0	659.8	619.4	40.34	16.357	
5,300.0	4,696.1	5,004.3	4,695.9	35.6	26.5	179.43	947.0	995.0	659.8	619.3	40.49	16.295	
5,400.0	4,796.1	5,104.3	4,795.9	35.6	26.5	179.43	947.0	995.0	659.8	619.1	40.65	16.233	
5,500.0	4,896.1	5,204.3	4,895.9	35.7	26.6	179.43	947.0	995.0	659.8	619.0	40.80	16.170	
5,600.0	4,996.1	5,304.3	4,995.9	35.7	26.7	179.43	947.0	995.0	659.8	618.8	40.96	16.107	
5,700.0	5,096.1	5,404.3	5,095.9	35.8	26.7	179.43	947.0	995.0	659.8	618.7	41.13	16.043	
5,800.0	5,196.1	5,504.3	5,195.9	35.8	26.8	179.43	947.0	995.0	659.8	618.5	41.29	15.979	
5,900.0	5,296.1	5,604.3	5,295.9	35.9	26.8	179.43	947.0	995.0	659.8	618.3	41.46	15.914	
6,000.0	5,396.1	5,704.3	5,395.9	35.9	26.9	179.43	947.0	995.0	659.8	618.2	41.63	15.850	
6,100.0	5,496.1	5,804.3	5,495.9	36.0	27.0	179.43	947.0	995.0	659.8	618.0	41.80	15.785	
6,200.0	5,596.1	5,904.3	5,595.9	36.0	27.0	179.43	947.0	995.0	659.8	617.8	41.97	15.719	
6,300.0	5,696.1	6,004.3	5,695.9	36.1	27.1	179.43	947.0	995.0	659.8	617.6	42.15	15.654	
6,400.0	5,796.1	6,104.3	5,795.9	36.1	27.2	179.43	947.0	995.0	659.8	617.5	42.33	15.588	
6,500.0	5,896.1	6,204.3	5,895.9	36.2	27.2	179.43	947.0	995.0	659.8	617.3	42.51	15.522	
6,543.9	5,940.0	6,218.4	5,910.0	36.2	27.2	179.43	947.0	995.0	660.5	617.9	42.56	15.518	

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 13A-13
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 13A-13	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									
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	156.20	-11.7	5.2	12.8						
100.0	100.0	100.0	100.0	0.1	0.1	156.20	-11.7	5.2	12.8	12.6	0.25	50.331			
200.0	200.0	200.0	200.0	0.3	0.3	156.20	-11.7	5.2	12.8	12.2	0.60	21.221 CC, ES			
300.0	300.0	300.0	300.0	0.5	0.5	133.13	-11.7	5.2	14.5	13.5	0.96	15.108			
400.0	399.6	400.1	400.1	0.7	0.7	142.68	-10.3	7.4	19.3	18.0	1.33	14.578			
500.0	498.8	500.5	500.1	1.0	0.9	144.55	-6.1	14.0	26.2	24.5	1.74	15.071			
600.0	597.1	600.8	599.6	1.4	1.1	142.91	0.9	25.1	34.9	32.6	2.25	15.524			
700.0	694.3	701.2	698.2	1.8	1.5	139.94	10.7	40.6	45.3	42.4	2.90	15.659			
800.0	790.2	801.4	795.7	2.3	1.9	136.64	23.3	60.5	57.7	54.0	3.72	15.507			
900.0	884.4	901.5	891.6	3.0	2.5	133.41	38.5	84.5	72.2	67.4	4.75	15.199			
1,000.0	976.8	1,001.3	985.6	3.7	3.1	130.41	56.4	112.7	88.7	82.7	5.97	14.845			
1,100.0	1,067.1	1,100.8	1,077.5	4.5	3.8	127.69	76.8	144.9	107.2	99.8	7.39	14.506			
1,200.0	1,154.9	1,198.9	1,166.6	5.4	4.6	125.83	98.7	179.6	128.1	119.2	8.90	14.396 SF			
1,300.0	1,240.2	1,296.0	1,254.7	6.4	5.3	125.86	120.6	214.1	152.0	141.7	10.37	14.654			
1,400.0	1,322.6	1,392.1	1,342.0	7.4	6.1	127.03	142.2	248.2	179.0	167.2	11.79	15.174			
1,500.0	1,401.9	1,487.1	1,428.2	8.6	6.8	128.81	163.5	281.9	209.2	196.0	13.15	15.909			
1,600.0	1,477.9	1,580.6	1,513.0	9.8	7.6	130.85	184.5	315.1	243.0	228.5	14.43	16.838			
1,700.0	1,551.0	1,672.7	1,596.5	11.1	8.3	133.32	205.2	347.8	280.0	264.4	15.59	17.957			
1,800.0	1,623.7	1,764.5	1,679.9	12.4	9.0	135.60	225.9	380.4	317.9	301.2	16.72	19.020			
1,900.0	1,696.3	1,856.4	1,763.3	13.6	9.7	137.40	246.5	413.0	356.2	338.4	17.84	19.969			
2,000.0	1,769.0	1,948.3	1,846.6	14.9	10.5	138.85	267.2	445.6	394.7	375.7	18.96	20.819			
2,100.0	1,841.6	2,040.1	1,930.0	16.2	11.2	140.05	287.8	478.3	433.4	413.3	20.08	21.580			
2,200.0	1,914.3	2,132.0	2,013.4	17.5	11.9	141.05	308.5	510.9	472.2	451.0	21.21	22.265			
2,300.0	1,987.0	2,223.9	2,096.7	18.7	12.7	141.90	329.2	543.5	511.1	488.8	22.33	22.884			
2,400.0	2,059.6	2,315.7	2,180.1	20.0	13.4	142.63	349.8	576.1	550.1	526.6	23.46	23.445			
2,500.0	2,132.3	2,407.6	2,263.5	21.3	14.1	143.26	370.5	608.7	589.2	564.6	24.59	23.955			
2,600.0	2,205.0	2,499.5	2,346.8	22.6	14.9	143.81	391.1	641.3	628.3	602.6	25.73	24.422			
2,700.0	2,277.6	2,591.4	2,430.2	23.9	15.6	144.30	411.8	673.9	667.5	640.6	26.86	24.849			
2,800.0	2,350.3	2,683.2	2,513.6	25.2	16.3	144.74	432.4	706.6	706.7	678.7	27.99	25.242			
2,900.0	2,423.1	2,775.2	2,597.0	26.4	17.0	145.32	453.1	739.2	745.7	716.6	29.10	25.631			
3,000.0	2,498.5	2,868.4	2,681.6	27.6	17.8	146.15	474.0	772.3	781.9	751.7	30.16	25.924			
3,100.0	2,577.2	2,963.1	2,767.5	28.7	18.5	146.65	495.3	805.9	814.0	782.6	31.34	25.975			
3,200.0	2,659.0	3,059.0	2,854.6	29.7	19.3	146.86	516.9	840.0	841.9	809.2	32.62	25.811			
3,300.0	2,743.8	3,141.7	2,930.0	30.7	19.9	146.95	535.0	868.6	866.1	832.3	33.79	25.630			
3,400.0	2,831.1	3,219.6	3,002.2	31.5	20.4	147.04	550.6	893.3	888.3	853.5	34.83	25.504			
3,500.0	2,921.0	3,300.0	3,078.0	32.3	20.9	147.14	565.0	916.0	908.3	872.5	35.78	25.389			
3,600.0	3,013.0	3,375.8	3,150.3	32.9	21.3	147.24	577.1	935.0	926.2	889.6	36.57	25.326			
3,700.0	3,106.9	3,454.1	3,226.0	33.5	21.6	147.34	587.8	952.0	942.0	904.7	37.28	25.270			
3,800.0	3,202.5	3,532.4	3,302.5	34.0	21.9	147.43	597.0	966.4	955.5	917.6	37.87	25.229			
3,900.0	3,299.5	3,610.9	3,379.7	34.4	22.2	147.52	604.4	978.2	966.8	928.4	38.36	25.204			
4,000.0	3,397.6	3,700.0	3,468.0	34.7	22.4	147.60	610.8	988.3	976.0	937.2	38.76	25.183			
4,100.0	3,496.6	3,788.0	3,535.6	35.0	22.5	147.68	614.2	993.7	982.7	943.7	38.98	25.208			
4,200.0	3,596.2	3,846.6	3,614.1	35.1	22.5	147.76	616.5	997.3	987.3	948.2	39.13	25.230			
4,300.0	3,696.1	3,928.6	3,696.1	35.2	22.6	147.82	617.1	998.3	989.6	950.4	39.19	25.251			
4,400.0	3,796.1	4,028.6	3,796.1	35.2	22.6	179.43	617.1	998.3	989.7	950.4	39.31	25.177			
4,500.0	3,896.1	4,128.6	3,896.1	35.2	22.7	179.43	617.1	998.3	989.7	950.2	39.44	25.093			
4,600.0	3,996.1	4,228.6	3,996.1	35.3	22.8	179.43	617.1	998.3	989.7	950.1	39.57	25.008			
4,700.0	4,096.1	4,328.6	4,096.1	35.3	22.8	179.43	617.1	998.3	989.7	950.0	39.71	24.922			
4,800.0	4,196.1	4,428.6	4,196.1	35.4	22.9	179.43	617.1	998.3	989.7	949.8	39.85	24.835			
4,900.0	4,296.1	4,528.6	4,296.1	35.4	22.9	179.43	617.1	998.3	989.7	949.7	39.99	24.747			
5,000.0	4,396.1	4,628.6	4,396.1	35.4	23.0	179.43	617.1	998.3	989.7	949.5	40.14	24.659			
5,100.0	4,496.1	4,728.6	4,496.1	35.5	23.1	179.43	617.1	998.3	989.7	949.4	40.28	24.569			

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 13A-13
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 13A-13	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	4,596.1	4,828.6	4,596.1	35.5	23.1	179.43	617.1	998.3	989.7	949.3	40.43	24.478		
5,300.0	4,696.1	4,928.6	4,696.1	35.6	23.2	179.43	617.1	998.3	989.7	949.1	40.58	24.387		
5,400.0	4,796.1	5,028.6	4,796.1	35.6	23.2	179.43	617.1	998.3	989.7	948.9	40.74	24.295		
5,500.0	4,896.1	5,128.6	4,896.1	35.7	23.3	179.43	617.1	998.3	989.7	948.8	40.89	24.202		
5,600.0	4,996.1	5,228.6	4,996.1	35.7	23.4	179.43	617.1	998.3	989.7	948.6	41.05	24.108		
5,700.0	5,096.1	5,328.6	5,096.1	35.8	23.4	179.43	617.1	998.3	989.7	948.5	41.21	24.014		
5,800.0	5,196.1	5,428.6	5,196.1	35.8	23.5	179.43	617.1	998.3	989.7	948.3	41.38	23.919		
5,900.0	5,296.1	5,528.6	5,296.1	35.9	23.6	179.43	617.1	998.3	989.7	948.1	41.54	23.824		
6,000.0	5,396.1	5,628.6	5,396.1	35.9	23.7	179.43	617.1	998.3	989.7	948.0	41.71	23.728		
6,100.0	5,496.1	5,728.6	5,496.1	36.0	23.7	179.43	617.1	998.3	989.7	947.8	41.88	23.632		
6,200.0	5,596.1	5,828.6	5,596.1	36.0	23.8	179.43	617.1	998.3	989.7	947.6	42.05	23.535		
6,300.0	5,696.1	5,928.6	5,696.1	36.1	23.9	179.43	617.1	998.3	989.7	947.5	42.23	23.437		
6,400.0	5,796.1	6,028.6	5,796.1	36.1	24.0	179.43	617.1	998.3	989.7	947.3	42.40	23.340		
6,464.5	5,860.6	6,093.1	5,860.6	36.1	24.0	179.43	617.1	998.3	989.7	947.2	42.52	23.277		
6,500.0	5,896.1	6,122.5	5,890.0	36.2	24.0	179.43	617.1	998.3	989.7	947.1	42.58	23.245		
6,543.9	5,940.0	6,122.5	5,890.0	36.2	24.0	179.43	617.1	998.3	990.9	948.3	42.62	23.252		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 13A-13
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 13A-13	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	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	175.53	-18.8	1.5	18.9					
100.0	100.0	100.0	100.0	0.1	0.1	175.53	-18.8	1.5	18.9	18.6	0.25	74.142		
200.0	200.0	200.0	200.0	0.3	0.3	175.53	-18.8	1.5	18.9	18.3	0.60	31.261 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	148.10	-18.8	1.5	21.0	20.1	0.95	22.044		
400.0	399.6	399.6	399.6	0.7	0.6	156.53	-18.8	1.5	28.0	26.7	1.31	21.431 SF		
500.0	498.8	499.8	499.8	1.0	0.8	160.64	-18.0	4.0	39.0	37.3	1.67	23.416		
600.0	597.1	600.1	599.7	1.4	1.0	159.65	-15.7	11.5	52.4	50.3	2.06	25.431		
700.0	694.3	700.2	699.0	1.8	1.3	156.63	-11.9	24.0	68.3	65.7	2.54	26.880		
800.0	790.2	800.0	797.1	2.3	1.6	152.94	-6.6	41.4	86.8	83.7	3.15	27.536		
900.0	884.4	899.3	893.6	3.0	2.1	149.17	0.2	63.5	108.3	104.4	3.94	27.487		
1,000.0	976.8	997.9	988.2	3.7	2.6	145.58	8.4	90.2	132.8	127.9	4.92	27.007		
1,100.0	1,067.1	1,095.7	1,080.4	4.5	3.2	142.25	17.9	121.3	160.5	154.4	6.09	26.352		
1,200.0	1,154.9	1,191.8	1,169.4	5.4	3.8	139.31	28.5	155.9	191.3	183.9	7.41	25.832		
1,300.0	1,240.2	1,285.5	1,255.9	6.4	4.5	137.61	39.1	190.5	225.8	217.1	8.74	25.846		
1,400.0	1,322.6	1,378.0	1,341.2	7.4	5.2	136.88	49.5	224.7	264.0	253.9	10.06	26.243		
1,500.0	1,401.9	1,468.8	1,424.9	8.6	5.8	136.76	59.8	258.2	305.7	294.3	11.36	26.898		
1,600.0	1,477.9	1,557.7	1,507.0	9.8	6.5	136.98	69.8	291.1	350.9	338.2	12.65	27.742		
1,700.0	1,551.0	1,644.9	1,587.4	11.1	7.1	137.92	79.7	323.3	399.2	385.3	13.87	28.777		
1,800.0	1,623.7	1,731.8	1,667.6	12.4	7.7	139.12	89.5	355.4	448.0	432.9	15.07	29.735		
1,900.0	1,696.3	1,818.8	1,747.7	13.6	8.4	140.08	99.3	387.5	496.9	480.6	16.26	30.559		
2,000.0	1,769.0	1,905.7	1,827.9	14.9	9.0	140.87	109.2	419.6	545.9	528.5	17.46	31.275		
2,100.0	1,841.6	1,992.6	1,908.1	16.2	9.6	141.54	119.0	451.7	595.0	576.4	18.65	31.902		
2,200.0	1,914.3	2,079.6	1,988.3	17.5	10.3	142.10	128.8	483.8	644.1	624.3	19.85	32.455		
2,300.0	1,987.0	2,166.5	2,068.5	18.7	10.9	142.58	138.6	515.9	693.3	672.3	21.04	32.946		
2,400.0	2,059.6	2,253.4	2,148.7	20.0	11.6	143.00	148.5	548.0	742.5	720.3	22.24	33.385		
2,500.0	2,132.3	2,340.4	2,228.9	21.3	12.2	143.36	158.3	580.1	791.8	768.3	23.44	33.781		
2,600.0	2,205.0	2,427.3	2,309.0	22.6	12.8	143.69	168.1	612.2	841.0	816.4	24.64	34.138		
2,700.0	2,277.6	2,514.2	2,389.2	23.9	13.5	143.98	177.9	644.4	890.3	864.5	25.83	34.462		
2,800.0	2,350.3	2,601.2	2,469.4	25.2	14.1	144.23	187.8	676.5	939.6	912.6	27.03	34.758		
2,900.0	2,423.1	2,688.2	2,549.7	26.4	14.8	144.73	197.6	708.6	988.8	960.6	28.20	35.069		
3,000.0	2,498.5	2,776.7	2,631.4	27.6	15.4	145.69	207.6	741.3	1,035.2	1,005.9	29.30	35.335		
3,100.0	2,577.2	2,867.2	2,714.8	28.7	16.1	146.36	217.8	774.7	1,077.7	1,047.2	30.47	35.372		
3,200.0	2,659.0	2,959.4	2,799.8	29.7	16.8	146.78	228.3	808.8	1,116.2	1,084.5	31.71	35.207		
3,300.0	2,743.8	3,052.9	2,886.1	30.7	17.4	146.98	238.8	843.3	1,150.7	1,117.7	33.00	34.866		
3,400.0	2,831.1	3,139.5	2,966.1	31.5	18.0	147.04	248.5	874.9	1,181.3	1,147.1	34.24	34.506		
3,500.0	2,921.0	3,219.7	3,041.4	32.3	18.5	147.13	256.6	901.4	1,208.9	1,173.6	35.30	34.246		
3,600.0	3,013.0	3,300.0	3,117.8	32.9	19.0	147.22	263.8	925.0	1,233.5	1,197.3	36.25	34.031		
3,700.0	3,106.9	3,382.3	3,197.1	33.5	19.3	147.31	270.2	945.9	1,255.2	1,218.1	37.07	33.862		
3,800.0	3,202.5	3,464.5	3,277.3	34.0	19.7	147.40	275.6	963.5	1,273.7	1,236.0	37.76	33.733		
3,900.0	3,299.5	3,547.3	3,358.6	34.4	19.9	147.49	280.0	977.9	1,289.2	1,250.9	38.32	33.639		
4,000.0	3,397.6	3,630.4	3,440.9	34.7	20.1	147.57	283.4	988.9	1,301.5	1,262.8	38.76	33.579		
4,100.0	3,496.6	3,713.8	3,523.9	35.0	20.3	147.66	285.7	996.6	1,310.7	1,271.7	39.07	33.550		
4,200.0	3,596.2	3,800.0	3,610.0	35.1	20.3	147.75	287.0	1,000.8	1,316.7	1,277.5	39.24	33.552		
4,300.0	3,696.1	3,886.1	3,696.1	35.2	20.4	147.83	287.3	1,001.5	1,319.5	1,280.2	39.31	33.564		
4,400.0	3,796.1	3,966.1	3,796.1	35.2	20.5	179.43	287.3	1,001.5	1,319.6	1,280.1	39.43	33.464		
4,500.0	3,896.1	4,086.1	3,896.1	35.2	20.5	179.43	287.3	1,001.5	1,319.6	1,280.0	39.56	33.354		
4,600.0	3,996.1	4,186.1	3,996.1	35.3	20.6	179.43	287.3	1,001.5	1,319.6	1,279.9	39.69	33.243		
4,700.0	4,096.1	4,286.1	4,096.1	35.3	20.6	179.43	287.3	1,001.5	1,319.6	1,279.7	39.83	33.130		
4,800.0	4,196.1	4,386.1	4,196.1	35.4	20.7	179.43	287.3	1,001.5	1,319.6	1,279.6	39.97	33.016		
4,900.0	4,296.1	4,486.1	4,296.1	35.4	20.8	179.43	287.3	1,001.5	1,319.6	1,279.5	40.11	32.900		
5,000.0	4,396.1	4,586.1	4,396.1	35.4	20.8	179.43	287.3	1,001.5	1,319.6	1,279.3	40.25	32.783		
5,100.0	4,496.1	4,686.1	4,496.1	35.5	20.9	179.43	287.3	1,001.5	1,319.6	1,279.2	40.40	32.665		

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 13A-13
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 13A-13	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	4,596.1	4,786.1	4,596.1	35.5	21.0	179.43	287.3	1,001.5	1,319.6	1,279.0	40.55	32.546	
5,300.0	4,696.1	4,886.1	4,696.1	35.6	21.0	179.43	287.3	1,001.5	1,319.6	1,278.9	40.70	32.426	
5,400.0	4,796.1	4,986.1	4,796.1	35.6	21.1	179.43	287.3	1,001.5	1,319.6	1,278.7	40.85	32.304	
5,500.0	4,896.1	5,086.1	4,896.1	35.7	21.2	179.43	287.3	1,001.5	1,319.6	1,278.6	41.00	32.182	
5,600.0	4,996.1	5,186.1	4,996.1	35.7	21.3	179.43	287.3	1,001.5	1,319.6	1,278.4	41.16	32.059	
5,700.0	5,096.1	5,286.1	5,096.1	35.8	21.3	179.43	287.3	1,001.5	1,319.6	1,278.3	41.32	31.934	
5,800.0	5,196.1	5,386.1	5,196.1	35.8	21.4	179.43	287.3	1,001.5	1,319.6	1,278.1	41.48	31.810	
5,900.0	5,296.1	5,486.1	5,296.1	35.9	21.5	179.43	287.3	1,001.5	1,319.6	1,277.9	41.65	31.684	
6,000.0	5,396.1	5,586.1	5,396.1	35.9	21.6	179.43	287.3	1,001.5	1,319.6	1,277.8	41.82	31.557	
6,100.0	5,496.1	5,686.1	5,496.1	36.0	21.6	179.43	287.3	1,001.5	1,319.6	1,277.6	41.98	31.430	
6,200.0	5,596.1	5,786.1	5,596.1	36.0	21.7	179.43	287.3	1,001.5	1,319.6	1,277.4	42.16	31.302	
6,300.0	5,696.1	5,886.1	5,696.1	36.1	21.8	179.43	287.3	1,001.5	1,319.6	1,277.2	42.33	31.174	
6,400.0	5,796.1	5,986.1	5,796.1	36.1	21.9	179.43	287.3	1,001.5	1,319.6	1,277.1	42.50	31.045	
6,454.9	5,851.0	6,041.0	5,851.0	36.1	21.9	179.43	287.3	1,001.5	1,319.6	1,277.0	42.60	30.974	
6,500.0	5,896.1	6,060.0	5,870.0	36.2	21.9	179.43	287.3	1,001.5	1,319.8	1,277.2	42.66	30.939	
6,543.9	5,940.0	6,060.0	5,870.0	36.2	21.9	179.43	287.3	1,001.5	1,321.4	1,278.7	42.70	30.947	

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 13A-13
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 13A-13	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S14-T7S-R96W - Nolte 14B-13 - DD - Plan #3												Offset Site Error: 0.0 ft	
Survey Program: 0-MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
0.0	0.0	0.0	0.0	0.0	0.0	-175.08	-25.9	-2.2	26.0				
100.0	100.0	100.0	100.0	0.1	0.1	-175.08	-25.9	-2.2	26.0	25.7	0.25	102.074	
200.0	200.0	200.0	200.0	0.3	0.3	-175.08	-25.9	-2.2	26.0	25.4	0.60	43.055 CC, ES	
300.0	300.0	300.0	300.0	0.5	0.5	155.67	-25.9	-2.2	28.4	27.4	0.95	29.737	
400.0	399.6	399.6	399.6	0.7	0.7	160.80	-25.9	-2.2	35.7	34.3	1.30	27.339 SF	
500.0	498.8	498.8	498.8	1.0	0.8	165.82	-25.9	-2.2	48.2	46.5	1.65	29.192	
600.0	597.1	597.6	597.6	1.4	1.0	169.12	-25.9	-1.6	65.8	63.8	1.99	33.045	
700.0	694.3	696.7	696.6	1.8	1.2	168.76	-26.0	3.4	87.0	84.7	2.35	37.073	
800.0	790.2	795.2	794.5	2.3	1.4	166.47	-26.2	13.5	111.7	108.9	2.75	40.532	
900.0	884.4	892.8	890.9	3.0	1.7	163.42	-26.4	28.4	139.9	136.6	3.26	42.968	
1,000.0	976.8	989.0	985.2	3.7	2.0	160.15	-26.7	48.0	171.9	168.1	3.89	44.212	
1,100.0	1,067.1	1,083.7	1,076.8	4.5	2.4	156.92	-27.1	71.8	208.0	203.3	4.68	44.447	
1,200.0	1,154.9	1,176.4	1,165.3	5.4	2.9	153.82	-27.6	99.6	248.2	242.5	5.64	44.035	
1,300.0	1,240.2	1,267.1	1,250.4	6.4	3.5	150.89	-28.1	130.8	292.3	285.6	6.75	43.309	
1,400.0	1,322.6	1,355.2	1,331.6	7.4	4.1	148.14	-28.7	164.9	340.5	332.5	7.98	42.644	
1,500.0	1,401.9	1,440.3	1,409.6	8.6	4.7	145.98	-29.2	199.0	392.6	383.3	9.26	42.386	
1,600.0	1,477.9	1,523.2	1,485.5	9.8	5.3	144.39	-29.8	232.3	448.4	437.8	10.55	42.514	
1,700.0	1,551.0	1,604.1	1,559.6	11.1	5.9	143.81	-30.3	264.7	507.2	495.4	11.80	42.978	
1,800.0	1,623.7	1,684.7	1,633.4	12.4	6.5	143.87	-30.9	297.1	566.4	553.3	13.04	43.432	
1,900.0	1,696.3	1,765.3	1,707.3	13.6	7.1	143.91	-31.4	329.4	625.5	611.3	14.28	43.792	
2,000.0	1,769.0	1,845.9	1,781.1	14.9	7.8	143.95	-31.9	361.7	684.7	669.2	15.53	44.083	
2,100.0	1,841.6	1,926.5	1,855.0	16.2	8.4	143.98	-32.5	394.0	743.9	727.1	16.78	44.322	
2,200.0	1,914.3	2,007.1	1,928.8	17.5	9.0	144.01	-33.0	426.3	803.1	785.0	18.04	44.522	
2,300.0	1,987.0	2,087.8	2,002.6	18.7	9.6	144.03	-33.5	458.7	862.3	843.0	19.29	44.691	
2,400.0	2,059.6	2,168.4	2,076.5	20.0	10.2	144.05	-34.1	491.0	921.4	900.9	20.55	44.836	
2,500.0	2,132.3	2,249.0	2,150.3	21.3	10.8	144.07	-34.6	523.3	980.6	958.8	21.81	44.961	
2,600.0	2,205.0	2,329.6	2,224.2	22.6	11.4	144.08	-35.2	555.6	1,039.8	1,016.7	23.07	45.071	
2,700.0	2,277.6	2,410.2	2,298.0	23.9	12.1	144.10	-35.7	588.0	1,099.0	1,074.7	24.33	45.167	
2,800.0	2,350.3	2,490.8	2,371.8	25.2	12.7	144.11	-36.2	620.3	1,158.2	1,132.6	25.59	45.252	
2,900.0	2,423.1	2,571.5	2,445.8	26.4	13.3	144.46	-36.8	652.7	1,217.2	1,190.4	26.82	45.386	
3,000.0	2,498.5	2,654.0	2,521.3	27.6	13.9	145.52	-37.3	685.7	1,273.7	1,245.7	27.97	45.541	
3,100.0	2,577.2	2,738.7	2,598.9	28.7	14.6	146.31	-37.9	719.7	1,326.6	1,297.4	29.17	45.475	

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 13A-13
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 13A-13	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S14-T7S-R96W - Nolte 14C-13 - DD - Plan #3													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance					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	-169.74	-32.5	-5.9	33.0					
100.0	100.0	100.0	100.0	0.1	0.1	-169.74	-32.5	-5.9	33.0	32.7	0.25	129.479		
200.0	200.0	200.0	200.0	0.3	0.3	-169.74	-32.5	-5.9	33.0	32.4	0.60	54.636 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	160.18	-32.5	-5.9	35.4	34.5	0.95	37.185		
400.0	399.6	399.6	399.6	0.7	0.7	163.67	-32.5	-5.9	42.9	41.6	1.30	32.943 SF		
500.0	498.8	498.8	498.8	1.0	0.8	167.37	-32.5	-5.9	55.6	53.9	1.65	33.710		
600.0	597.1	597.2	597.2	1.4	1.0	168.42	-33.3	-3.5	73.4	71.4	2.00	36.748		
700.0	694.3	694.6	694.2	1.8	1.2	166.53	-35.7	3.5	96.1	93.8	2.38	40.441		
800.0	790.2	790.3	789.1	2.3	1.4	163.53	-39.6	14.9	124.0	121.2	2.83	43.870		
900.0	884.4	883.8	881.2	3.0	1.7	160.28	-45.0	30.4	157.3	153.9	3.38	46.543		
1,000.0	976.8	974.6	969.7	3.7	2.1	157.15	-51.6	49.6	195.9	191.8	4.05	48.384		
1,100.0	1,067.1	1,062.4	1,054.3	4.5	2.5	154.24	-59.3	71.8	239.8	235.0	4.84	49.569		
1,200.0	1,154.9	1,146.8	1,134.5	5.4	3.0	151.55	-67.9	96.7	289.0	283.2	5.74	50.329		
1,300.0	1,240.2	1,227.6	1,210.1	6.4	3.5	149.04	-77.1	123.6	343.0	336.3	6.75	50.842		
1,400.0	1,322.6	1,304.6	1,281.0	7.4	4.1	146.67	-87.0	152.0	401.7	393.9	7.84	51.231		
1,500.0	1,401.9	1,380.2	1,349.5	8.6	4.6	144.42	-97.4	182.1	464.7	455.6	9.02	51.506		
1,600.0	1,477.9	1,455.0	1,417.2	9.8	5.2	142.54	-107.7	212.2	531.0	520.7	10.24	51.854		
1,700.0	1,551.0	1,527.4	1,482.8	11.1	5.8	141.85	-117.8	241.3	599.9	588.5	11.43	52.480		
1,800.0	1,623.7	1,599.5	1,548.0	12.4	6.4	141.99	-127.8	270.3	669.2	656.6	12.60	53.106		
1,900.0	1,696.3	1,671.6	1,613.3	13.6	6.9	142.10	-137.8	299.3	738.5	724.7	13.78	53.602		
2,000.0	1,769.0	1,743.8	1,678.6	14.9	7.5	142.19	-147.8	328.3	807.7	792.8	14.96	54.007		
2,100.0	1,841.6	1,815.9	1,743.8	16.2	8.1	142.27	-157.8	357.3	877.0	860.9	16.14	54.342		
2,200.0	1,914.3	1,888.0	1,809.1	17.5	8.7	142.34	-167.8	386.3	946.3	929.0	17.32	54.624		
2,300.0	1,987.0	1,960.1	1,874.3	18.7	9.3	142.39	-177.9	415.3	1,015.6	997.1	18.51	54.863		
2,400.0	2,059.6	2,032.2	1,939.6	20.0	9.8	142.44	-187.9	444.3	1,084.8	1,065.1	19.70	55.069		
2,500.0	2,132.3	2,104.3	2,004.9	21.3	10.4	142.49	-197.9	473.3	1,154.1	1,133.2	20.89	55.248		
2,600.0	2,205.0	2,176.4	2,070.1	22.6	11.0	142.53	-207.9	502.3	1,223.4	1,201.3	22.08	55.405		
2,700.0	2,277.6	2,248.5	2,135.4	23.9	11.6	142.56	-217.9	531.3	1,292.7	1,269.4	23.27	55.543		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 13A-13
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 13A-13	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			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	-166.53	-40.1	-9.6	41.2				
100.0	100.0	100.0	100.0	0.1	0.1	-166.53	-40.1	-9.6	41.2	41.0	0.25	161.646	
200.0	200.0	200.0	200.0	0.3	0.3	-166.53	-40.1	-9.6	41.2	40.6	0.60	68.236	CC, ES
300.0	300.0	300.0	300.0	0.5	0.5	162.92	-40.1	-9.6	43.7	42.8	0.95	45.865	
400.0	399.6	399.6	399.6	0.7	0.7	165.44	-40.1	-9.6	51.3	50.0	1.30	39.384	
500.0	498.8	497.9	497.9	1.0	0.8	166.08	-41.5	-7.5	64.6	62.9	1.65	39.074	SF
600.0	597.1	594.9	594.6	1.4	1.0	163.90	-45.5	-1.3	84.3	82.3	2.03	41.435	
700.0	694.3	689.7	688.6	1.8	1.3	160.79	-52.0	8.8	110.5	108.1	2.48	44.632	
800.0	790.2	781.8	779.2	2.3	1.6	157.65	-60.8	22.3	143.3	140.3	3.00	47.791	
900.0	884.4	870.5	865.7	3.0	1.9	154.78	-71.5	38.8	182.6	179.0	3.61	50.578	
1,000.0	976.8	955.3	947.5	3.7	2.3	152.22	-83.7	57.6	228.1	223.8	4.31	52.951	
1,100.0	1,067.1	1,036.0	1,024.3	4.5	2.8	149.92	-97.2	78.4	279.5	274.4	5.08	54.974	
1,200.0	1,154.9	1,112.2	1,095.8	5.4	3.3	147.79	-111.5	100.5	336.4	330.5	5.93	56.721	
1,300.0	1,240.2	1,183.8	1,162.0	6.4	3.8	145.77	-126.4	123.4	398.4	391.6	6.85	58.149	
1,400.0	1,322.6	1,250.7	1,222.9	7.4	4.3	143.77	-141.5	146.7	465.2	457.3	7.84	59.317	
1,500.0	1,401.9	1,312.9	1,278.6	8.6	4.8	141.73	-156.6	170.0	536.2	527.3	8.89	60.332	
1,600.0	1,477.9	1,375.1	1,333.4	9.8	5.4	139.64	-172.5	194.5	611.0	601.0	10.02	60.976	
1,700.0	1,551.0	1,438.6	1,389.4	11.1	5.9	138.92	-188.9	219.8	688.1	677.0	11.15	61.702	
1,800.0	1,623.7	1,501.8	1,445.0	12.4	6.5	139.27	-205.2	244.9	765.6	753.3	12.25	62.494	
1,900.0	1,696.3	1,565.1	1,500.7	13.6	7.1	139.55	-221.5	270.0	843.0	829.7	13.35	63.128	
2,000.0	1,769.0	1,628.3	1,556.4	14.9	7.6	139.78	-237.8	295.1	920.5	906.0	14.46	63.654	
2,100.0	1,841.6	1,691.5	1,612.1	16.2	8.2	139.98	-254.1	320.2	997.9	982.3	15.57	64.095	
2,200.0	1,914.3	1,754.7	1,667.8	17.5	8.7	140.15	-270.3	345.3	1,075.4	1,058.7	16.68	64.467	
2,300.0	1,987.0	1,817.9	1,723.4	18.7	9.3	140.30	-286.6	370.5	1,152.8	1,135.0	17.79	64.788	
2,400.0	2,059.6	1,881.1	1,779.1	20.0	9.9	140.43	-302.9	395.6	1,230.3	1,211.4	18.91	65.065	
2,500.0	2,132.3	1,944.4	1,834.8	21.3	10.4	140.54	-319.2	420.7	1,307.8	1,287.7	20.02	65.307	

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 13A-13
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 13A-13	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		
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	62.707		
200.0	200.0	200.0	200.0	0.3	0.3	-152.45	-14.2	-7.4	16.0	15.4	0.60	26.482	CC, ES	
300.0	300.0	300.0	300.0	0.5	0.5	176.51	-14.2	-7.4	18.6	17.7	0.95	19.542		
400.0	399.6	400.6	400.6	0.7	0.7	-178.44	-11.6	-7.9	24.5	23.2	1.30	18.803	SF	
500.0	498.8	501.2	500.8	1.0	0.9	-169.18	-3.8	-9.4	32.3	30.6	1.68	19.237		
600.0	597.1	601.4	600.2	1.4	1.1	-159.51	9.1	-11.9	43.0	40.9	2.15	20.021		
700.0	694.3	701.2	698.2	1.8	1.5	-151.10	27.0	-15.4	57.2	54.5	2.78	20.596		
800.0	790.2	800.2	794.5	2.3	1.9	-144.31	49.7	-19.9	75.2	71.6	3.60	20.891		
900.0	884.4	898.3	888.6	3.0	2.4	-138.94	77.1	-25.2	96.9	92.2	4.60	21.036		
1,000.0	976.8	995.4	980.1	3.7	3.0	-134.64	108.7	-31.4	122.2	116.4	5.78	21.136		
1,100.0	1,067.1	1,091.3	1,068.8	4.5	3.7	-131.13	144.4	-38.3	151.0	143.9	7.11	21.235		
1,200.0	1,154.9	1,185.8	1,154.4	5.4	4.4	-128.18	183.9	-46.0	183.3	174.7	8.59	21.344		
1,300.0	1,240.2	1,279.0	1,236.7	6.4	5.2	-125.65	226.7	-54.4	218.8	208.6	10.19	21.463		
1,400.0	1,322.6	1,370.6	1,315.4	7.4	6.1	-123.40	272.7	-63.4	257.4	245.5	11.92	21.588		
1,500.0	1,401.9	1,460.7	1,390.5	8.6	7.0	-121.37	321.5	-72.9	298.9	285.2	13.77	21.716		
1,600.0	1,477.9	1,549.2	1,462.0	9.8	7.9	-119.47	372.7	-82.9	343.3	327.5	15.71	21.843		
1,700.0	1,551.0	1,636.3	1,529.9	11.1	8.9	-118.34	426.2	-93.3	389.9	372.2	17.72	21.999		
1,800.0	1,623.7	1,724.1	1,596.6	12.4	9.9	-117.62	482.2	-104.3	437.0	417.2	19.79	22.088		
1,900.0	1,696.3	1,812.1	1,663.5	13.6	10.9	-117.04	538.4	-115.2	484.2	462.4	21.85	22.157		
2,000.0	1,769.0	1,900.2	1,730.5	14.9	11.9	-116.55	594.6	-126.2	531.4	507.5	23.92	22.213		
2,100.0	1,841.6	1,988.3	1,797.4	16.2	12.9	-116.15	650.8	-137.1	578.7	552.7	26.00	22.260		
2,200.0	1,914.3	2,076.3	1,864.3	17.5	13.9	-115.81	707.0	-148.1	625.9	597.9	28.07	22.299		
2,300.0	1,987.0	2,164.4	1,931.2	18.7	14.9	-115.51	763.2	-159.1	673.2	643.1	30.14	22.333		
2,400.0	2,059.6	2,252.5	1,998.1	20.0	15.9	-115.25	819.4	-170.0	720.5	688.3	32.22	22.363		
2,500.0	2,132.3	2,340.6	2,065.0	21.3	17.0	-115.03	875.6	-181.0	767.8	733.5	34.29	22.389		
2,600.0	2,205.0	2,428.6	2,131.9	22.6	18.0	-114.83	931.8	-192.0	815.1	778.7	36.37	22.411		
2,700.0	2,277.6	2,516.7	2,198.8	23.9	19.0	-114.65	988.0	-202.9	862.4	824.0	38.45	22.431		
2,800.0	2,350.3	2,604.8	2,265.7	25.2	20.0	-114.49	1,044.2	-213.9	909.8	869.2	40.52	22.449		
2,900.0	2,423.1	2,692.9	2,332.7	26.4	21.0	-114.74	1,100.5	-224.9	957.0	914.4	42.60	22.464		
3,000.0	2,498.5	2,781.6	2,400.1	27.6	22.0	-115.77	1,157.1	-235.9	1,002.8	958.2	44.64	22.463		
3,100.0	2,577.2	2,873.4	2,470.0	28.7	23.1	-116.46	1,215.5	-247.3	1,046.7	1,000.0	46.69	22.419		
3,200.0	2,659.0	2,973.0	2,548.3	29.7	24.2	-116.98	1,276.0	-259.1	1,087.9	1,039.2	48.69	22.342		
3,300.0	2,743.8	3,075.2	2,631.7	30.7	25.2	-117.45	1,333.7	-270.4	1,126.3	1,075.7	50.59	22.264		
3,400.0	2,831.1	3,179.7	2,720.3	31.5	26.1	-117.86	1,388.2	-281.0	1,161.6	1,109.2	52.36	22.185		
3,500.0	2,921.0	3,286.6	2,813.9	32.3	27.0	-118.23	1,438.9	-290.9	1,193.7	1,139.7	53.99	22.109		
3,600.0	3,013.0	3,395.8	2,912.2	32.9	27.8	-118.56	1,485.3	-300.0	1,222.5	1,167.0	55.47	22.037		
3,700.0	3,106.9	3,507.0	3,015.1	33.5	28.5	-118.84	1,526.9	-308.1	1,247.7	1,191.0	56.78	21.974		
3,800.0	3,202.5	3,620.1	3,122.0	34.0	29.1	-119.08	1,563.0	-315.1	1,269.4	1,211.5	57.91	21.920		
3,900.0	3,299.5	3,734.9	3,232.6	34.4	29.7	-119.29	1,593.3	-321.0	1,287.4	1,228.6	58.85	21.875		
4,000.0	3,397.6	3,851.0	3,346.1	34.7	30.1	-119.46	1,617.2	-325.7	1,301.6	1,242.0	59.59	21.841		
4,100.0	3,496.6	3,968.1	3,461.9	35.0	30.4	-119.61	1,634.4	-329.1	1,311.9	1,251.7	60.13	21.817		
4,200.0	3,596.2	4,085.9	3,579.2	35.1	30.5	-119.72	1,644.7	-331.1	1,318.2	1,257.8	60.46	21.805		
4,300.0	3,696.1	4,202.9	3,696.1	35.2	30.6	-119.81	1,647.8	-331.7	1,320.6	1,260.1	60.57	21.802		
4,400.0	3,796.1	4,302.9	3,796.1	35.2	30.6	-88.22	1,647.8	-331.7	1,320.7	1,260.0	60.66	21.772		
4,500.0	3,896.1	4,402.9	3,896.1	35.2	30.7	-88.22	1,647.8	-331.7	1,320.7	1,259.9	60.75	21.741		
4,600.0	3,996.1	4,502.9	3,996.1	35.3	30.7	-88.22	1,647.8	-331.7	1,320.7	1,259.8	60.84	21.709		
4,700.0	4,096.1	4,602.9	4,096.1	35.3	30.8	-88.22	1,647.8	-331.7	1,320.7	1,259.7	60.93	21.676		
4,800.0	4,196.1	4,702.9	4,196.1	35.4	30.8	-88.22	1,647.8	-331.7	1,320.7	1,259.7	61.02	21.643		
4,900.0	4,296.1	4,802.9	4,296.1	35.4	30.9	-88.22	1,647.8	-331.7	1,320.7	1,259.6	61.12	21.609		
5,000.0	4,396.1	4,902.9	4,396.1	35.4	30.9	-88.22	1,647.8	-331.7	1,320.7	1,259.5	61.21	21.575		
5,100.0	4,496.1	5,002.9	4,496.1	35.5	31.0	-88.22	1,647.8	-331.7	1,320.7	1,259.4	61.31	21.540		

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 13A-13
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 13A-13	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	4,596.1	5,102.9	4,596.1	35.5	31.0	-88.22	1,647.8	-331.7	1,320.7	1,259.3	61.41	21.505		
5,300.0	4,696.1	5,202.9	4,696.1	35.6	31.1	-88.22	1,647.8	-331.7	1,320.7	1,259.2	61.52	21.469		
5,400.0	4,796.1	5,302.9	4,796.1	35.6	31.1	-88.22	1,647.8	-331.7	1,320.7	1,259.1	61.62	21.433		
5,500.0	4,896.1	5,402.9	4,896.1	35.7	31.2	-88.22	1,647.8	-331.7	1,320.7	1,258.9	61.73	21.396		
5,600.0	4,996.1	5,502.9	4,996.1	35.7	31.2	-88.22	1,647.8	-331.7	1,320.7	1,258.8	61.83	21.358		
5,700.0	5,096.1	5,602.9	5,096.1	35.8	31.3	-88.22	1,647.8	-331.7	1,320.7	1,258.7	61.94	21.321		
5,800.0	5,196.1	5,702.9	5,196.1	35.8	31.3	-88.22	1,647.8	-331.7	1,320.7	1,258.6	62.06	21.282		
5,900.0	5,296.1	5,802.9	5,296.1	35.9	31.4	-88.22	1,647.8	-331.7	1,320.7	1,258.5	62.17	21.243		
6,000.0	5,396.1	5,902.9	5,396.1	35.9	31.4	-88.22	1,647.8	-331.7	1,320.7	1,258.4	62.28	21.204		
6,100.0	5,496.1	6,002.9	5,496.1	36.0	31.5	-88.22	1,647.8	-331.7	1,320.7	1,258.3	62.40	21.165		
6,200.0	5,596.1	6,102.9	5,596.1	36.0	31.5	-88.22	1,647.8	-331.7	1,320.7	1,258.2	62.52	21.124		
6,300.0	5,696.1	6,202.9	5,696.1	36.1	31.6	-88.22	1,647.8	-331.7	1,320.7	1,258.0	62.64	21.084		
6,400.0	5,796.1	6,302.9	5,796.1	36.1	31.7	-88.22	1,647.8	-331.7	1,320.7	1,257.9	62.76	21.043		
6,500.0	5,896.1	6,402.9	5,896.1	36.2	31.7	-88.22	1,647.8	-331.7	1,320.7	1,257.8	62.88	21.002		
6,509.9	5,906.0	6,412.8	5,906.0	36.2	31.7	-88.22	1,647.8	-331.7	1,320.7	1,257.8	62.90	20.997		
6,543.9	5,940.0	6,421.8	5,915.0	36.2	31.7	-88.22	1,647.8	-331.7	1,320.9	1,258.0	62.92	20.992		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 13A-13
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 13A-13	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		
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	93.991		
200.0	200.0	200.0	200.0	0.3	0.3	-152.44	-21.3	-11.1	24.0	23.4	0.60	39.705	CC, ES	
300.0	300.0	300.0	300.0	0.5	0.5	176.35	-21.3	-11.1	26.6	25.7	0.95	27.931		
400.0	399.6	400.3	400.3	0.7	0.7	177.93	-20.6	-11.3	34.0	32.7	1.30	26.130		
500.0	498.8	501.2	501.1	1.0	0.8	-176.64	-15.4	-12.5	43.3	41.7	1.65	26.208		
600.0	597.1	602.0	601.2	1.4	1.1	-169.43	-5.1	-14.9	55.0	52.9	2.05	26.815		
700.0	694.3	702.3	700.3	1.8	1.4	-162.07	10.3	-18.5	69.6	67.0	2.55	27.249		
800.0	790.2	801.9	797.7	2.3	1.8	-155.36	30.5	-23.3	87.6	84.4	3.22	27.178		
900.0	884.4	900.7	893.1	3.0	2.2	-149.55	55.5	-29.1	109.4	105.3	4.09	26.737		
1,000.0	976.8	998.5	986.1	3.7	2.8	-144.62	84.9	-36.0	134.9	129.8	5.15	26.182		
1,100.0	1,067.1	1,095.0	1,076.3	4.5	3.4	-140.43	118.4	-43.9	164.1	157.7	6.39	25.675		
1,200.0	1,154.9	1,190.2	1,163.4	5.4	4.1	-136.83	155.8	-52.6	196.9	189.1	7.79	25.275		
1,300.0	1,240.2	1,283.9	1,247.1	6.4	4.8	-133.70	196.6	-62.2	233.2	223.9	9.34	24.982		
1,400.0	1,322.6	1,376.0	1,327.4	7.4	5.7	-130.91	240.6	-72.5	272.8	261.8	11.01	24.779		
1,500.0	1,401.9	1,466.3	1,404.3	8.6	6.5	-128.57	286.7	-83.3	315.6	302.8	12.75	24.751	SF	
1,600.0	1,477.9	1,555.2	1,479.8	9.8	7.3	-127.07	332.4	-94.0	361.3	346.8	14.49	24.933		
1,700.0	1,551.0	1,642.9	1,554.3	11.1	8.1	-126.81	377.3	-104.6	409.5	393.3	16.20	25.281		
1,800.0	1,623.7	1,730.3	1,628.6	12.4	8.9	-127.15	422.2	-115.1	457.9	440.0	17.89	25.600		
1,900.0	1,696.3	1,817.8	1,702.9	13.6	9.8	-127.43	467.1	-125.6	506.4	486.8	19.58	25.859		
2,000.0	1,769.0	1,905.2	1,777.3	14.9	10.6	-127.66	511.9	-136.1	554.8	533.6	21.28	26.073		
2,100.0	1,841.6	1,992.7	1,851.6	16.2	11.4	-127.85	556.8	-146.7	603.3	580.3	22.98	26.253		
2,200.0	1,914.3	2,080.1	1,925.9	17.5	12.2	-128.01	601.7	-157.2	651.8	627.1	24.68	26.407		
2,300.0	1,987.0	2,167.5	2,000.2	18.7	13.0	-128.16	646.6	-167.7	700.3	673.9	26.39	26.540		
2,400.0	2,059.6	2,255.0	2,074.5	20.0	13.9	-128.28	691.4	-178.2	748.8	720.7	28.09	26.656		
2,500.0	2,132.3	2,342.4	2,148.8	21.3	14.7	-128.39	736.3	-188.8	797.3	767.5	29.80	26.757		
2,600.0	2,205.0	2,429.9	2,223.1	22.6	15.5	-128.48	781.2	-199.3	845.8	814.3	31.50	26.847		
2,700.0	2,277.6	2,517.3	2,297.5	23.9	16.3	-128.57	826.1	-209.8	894.3	861.1	33.21	26.928		
2,800.0	2,350.3	2,604.8	2,371.8	25.2	17.1	-128.64	870.9	-220.3	942.8	907.8	34.92	27.000		
2,900.0	2,423.1	2,692.3	2,446.1	26.4	18.0	-129.05	915.8	-230.9	991.1	954.5	36.60	27.082		
3,000.0	2,498.5	2,780.9	2,521.5	27.6	18.8	-130.12	961.3	-241.5	1,037.4	999.2	38.21	27.146		
3,100.0	2,577.2	2,870.9	2,597.9	28.7	19.6	-130.86	1,007.5	-252.3	1,080.6	1,040.7	39.87	27.103		
3,200.0	2,659.0	2,961.9	2,675.2	29.7	20.5	-131.30	1,054.2	-263.3	1,120.8	1,079.2	41.56	26.969		
3,300.0	2,743.8	3,052.8	2,753.7	30.7	21.3	-131.61	1,098.9	-273.8	1,158.0	1,114.8	43.16	26.830		
3,400.0	2,831.1	3,145.5	2,835.8	31.5	22.0	-131.88	1,140.8	-283.6	1,192.0	1,147.4	44.65	26.700		
3,500.0	2,921.0	3,239.8	2,921.4	32.3	22.7	-132.14	1,179.3	-292.6	1,223.0	1,176.9	46.01	26.580		
3,600.0	3,013.0	3,335.7	3,010.3	32.9	23.3	-132.36	1,214.2	-300.8	1,250.6	1,203.3	47.24	26.473		
3,700.0	3,106.9	3,433.0	3,102.3	33.5	23.8	-132.57	1,245.2	-308.1	1,274.8	1,226.5	48.32	26.380		
3,800.0	3,202.5	3,531.6	3,197.0	34.0	24.3	-132.75	1,271.8	-314.3	1,295.6	1,246.3	49.25	26.304		
3,900.0	3,299.5	3,631.2	3,294.0	34.4	24.7	-132.91	1,293.9	-319.5	1,312.8	1,262.8	50.02	26.244		
4,000.0	3,397.6	3,731.8	3,392.9	34.7	25.0	-133.05	1,311.2	-323.6	1,326.4	1,275.8	50.62	26.202		
4,100.0	3,496.6	3,833.0	3,493.3	35.0	25.2	-133.17	1,323.4	-326.4	1,336.4	1,285.3	51.05	26.179		
4,200.0	3,596.2	3,934.6	3,594.7	35.1	25.3	-133.28	1,330.4	-328.1	1,342.6	1,291.3	51.29	26.175		
4,300.0	3,696.1	4,036.0	3,696.1	35.2	25.4	-133.37	1,332.3	-328.5	1,345.1	1,293.7	51.39	26.175		
4,400.0	3,796.1	4,136.0	3,796.1	35.2	25.4	-101.77	1,332.3	-328.5	1,345.2	1,293.7	51.49	26.127		
4,500.0	3,896.1	4,236.0	3,896.1	35.2	25.5	-101.77	1,332.3	-328.5	1,345.2	1,293.6	51.59	26.076		
4,600.0	3,996.1	4,336.0	3,996.1	35.3	25.5	-101.77	1,332.3	-328.5	1,345.2	1,293.5	51.69	26.024		
4,700.0	4,096.1	4,436.0	4,096.1	35.3	25.6	-101.77	1,332.3	-328.5	1,345.2	1,293.4	51.80	25.971		
4,800.0	4,196.1	4,536.0	4,196.1	35.4	25.6	-101.77	1,332.3	-328.5	1,345.2	1,293.3	51.90	25.917		
4,900.0	4,296.1	4,636.0	4,296.1	35.4	25.7	-101.77	1,332.3	-328.5	1,345.2	1,293.2	52.01	25.862		
5,000.0	4,396.1	4,736.0	4,396.1	35.4	25.7	-101.77	1,332.3	-328.5	1,345.2	1,293.1	52.13	25.806		
5,100.0	4,496.1	4,836.0	4,496.1	35.5	25.8	-101.77	1,332.3	-328.5	1,345.2	1,292.9	52.24	25.750		

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 13A-13
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 13A-13	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		
5,200.0	4,596.1	4,936.0	4,596.1	35.5	25.9	-101.77	1,332.3	-328.5	1,345.2	1,292.8	52.36	25.693		
5,300.0	4,696.1	5,036.0	4,696.1	35.6	25.9	-101.77	1,332.3	-328.5	1,345.2	1,292.7	52.47	25.635		
5,400.0	4,796.1	5,136.0	4,796.1	35.6	26.0	-101.77	1,332.3	-328.5	1,345.2	1,292.6	52.60	25.576		
5,500.0	4,896.1	5,236.0	4,896.1	35.7	26.0	-101.77	1,332.3	-328.5	1,345.2	1,292.5	52.72	25.517		
5,600.0	4,996.1	5,336.0	4,996.1	35.7	26.1	-101.77	1,332.3	-328.5	1,345.2	1,292.3	52.84	25.457		
5,700.0	5,096.1	5,436.0	5,096.1	35.8	26.2	-101.77	1,332.3	-328.5	1,345.2	1,292.2	52.97	25.396		
5,800.0	5,196.1	5,536.0	5,196.1	35.8	26.2	-101.77	1,332.3	-328.5	1,345.2	1,292.1	53.10	25.334		
5,900.0	5,296.1	5,636.0	5,296.1	35.9	26.3	-101.77	1,332.3	-328.5	1,345.2	1,292.0	53.23	25.272		
6,000.0	5,396.1	5,736.0	5,396.1	35.9	26.4	-101.77	1,332.3	-328.5	1,345.2	1,291.8	53.36	25.210		
6,100.0	5,496.1	5,836.0	5,496.1	36.0	26.4	-101.77	1,332.3	-328.5	1,345.2	1,291.7	53.49	25.146		
6,200.0	5,596.1	5,936.0	5,596.1	36.0	26.5	-101.77	1,332.3	-328.5	1,345.2	1,291.6	53.63	25.082		
6,300.0	5,696.1	6,036.0	5,696.1	36.1	26.6	-101.77	1,332.3	-328.5	1,345.2	1,291.4	53.77	25.018		
6,400.0	5,796.1	6,136.0	5,796.1	36.1	26.6	-101.77	1,332.3	-328.5	1,345.2	1,291.3	53.91	24.953		
6,464.5	5,860.6	6,200.5	5,860.6	36.1	26.7	-101.77	1,332.3	-328.5	1,345.2	1,291.2	54.00	24.911		
6,500.0	5,896.1	6,229.9	5,890.0	36.2	26.7	-101.77	1,332.3	-328.5	1,345.2	1,291.1	54.05	24.890		
6,543.9	5,940.0	6,229.9	5,890.0	36.2	26.7	-101.77	1,332.3	-328.5	1,346.1	1,292.0	54.08	24.892		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 13A-13
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 13A-13	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		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	-152.49	-28.4	-14.8	32.0					
100.0	100.0	100.0	100.0	0.1	0.1	-152.49	-28.4	-14.8	32.0	31.7	0.26	125.193		
200.0	200.0	200.0	200.0	0.3	0.3	-152.49	-28.4	-14.8	32.0	31.4	0.60	52.904 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	176.22	-28.4	-14.8	34.6	33.6	0.95	36.308		
400.0	399.6	399.6	399.6	0.7	0.7	176.90	-28.4	-14.8	42.4	41.1	1.30	32.673 SF		
500.0	498.8	500.6	500.5	1.0	0.8	179.78	-25.9	-15.7	53.8	52.2	1.65	32.685		
600.0	597.1	601.4	601.0	1.4	1.0	-174.80	-18.4	-18.4	67.4	65.4	2.01	33.500		
700.0	694.3	701.6	700.4	1.8	1.3	-168.58	-6.0	-22.9	84.1	81.6	2.45	34.356		
800.0	790.2	801.1	798.2	2.3	1.6	-162.46	11.1	-29.2	104.3	101.3	3.01	34.671		
900.0	884.4	899.6	893.9	3.0	2.0	-156.87	32.7	-37.1	128.4	124.7	3.74	34.339		
1,000.0	976.8	996.7	987.0	3.7	2.5	-151.94	58.5	-46.5	156.7	152.0	4.66	33.619		
1,100.0	1,067.1	1,091.3	1,076.6	4.5	3.1	-147.93	87.1	-57.0	189.2	183.5	5.70	33.185		
1,200.0	1,154.9	1,184.0	1,164.3	5.4	3.6	-145.53	115.5	-67.3	226.1	219.4	6.77	33.412		
1,300.0	1,240.2	1,275.2	1,250.5	6.4	4.1	-144.20	143.4	-77.5	267.2	259.3	7.84	34.068		
1,400.0	1,322.6	1,364.6	1,335.0	7.4	4.6	-143.53	170.7	-87.5	312.0	303.1	8.91	35.004		
1,500.0	1,401.9	1,451.9	1,417.5	8.6	5.1	-143.26	197.4	-97.2	360.6	350.7	9.98	36.134		
1,600.0	1,477.9	1,536.9	1,497.9	9.8	5.6	-143.20	223.4	-106.7	412.9	401.9	11.04	37.403		
1,700.0	1,551.0	1,619.7	1,576.2	11.1	6.1	-143.84	248.8	-116.0	468.4	456.3	12.06	38.846		
1,800.0	1,623.7	1,702.3	1,654.3	12.4	6.6	-144.83	274.0	-125.2	524.3	511.3	13.05	40.177		
1,900.0	1,696.3	1,784.9	1,732.4	13.6	7.1	-145.62	299.3	-134.5	580.4	566.3	14.04	41.323		
2,000.0	1,769.0	1,867.5	1,810.4	14.9	7.6	-146.28	324.6	-143.7	636.5	621.4	15.04	42.320		
2,100.0	1,841.6	1,950.0	1,888.5	16.2	8.1	-146.83	349.8	-152.9	692.6	676.6	16.03	43.195		
2,200.0	1,914.3	2,032.6	1,966.6	17.5	8.6	-147.30	375.1	-162.1	748.8	731.8	17.03	43.970		
2,300.0	1,987.0	2,115.2	2,044.7	18.7	9.1	-147.70	400.4	-171.4	805.0	787.0	18.03	44.659		
2,400.0	2,059.6	2,197.8	2,122.7	20.0	9.5	-148.05	425.6	-180.6	861.2	842.2	19.02	45.277		
2,500.0	2,132.3	2,280.4	2,200.8	21.3	10.0	-148.36	450.9	-189.8	917.5	897.5	20.02	45.833		
2,600.0	2,205.0	2,363.0	2,278.9	22.6	10.5	-148.63	476.2	-199.1	973.8	952.8	21.02	46.337		
2,700.0	2,277.6	2,445.5	2,357.0	23.9	11.0	-148.87	501.4	-208.3	1,030.1	1,008.1	22.01	46.795		
2,800.0	2,350.3	2,528.1	2,435.1	25.2	11.5	-149.09	526.7	-217.5	1,086.4	1,063.4	23.01	47.214		
2,900.0	2,423.1	2,610.8	2,513.2	26.4	12.0	-149.56	552.0	-226.8	1,142.5	1,118.6	23.97	47.666		
3,000.0	2,498.5	2,695.3	2,593.2	27.6	12.5	-150.57	577.9	-236.2	1,195.9	1,171.0	24.86	48.111		
3,100.0	2,577.2	2,782.2	2,675.3	28.7	13.0	-151.31	604.4	-245.9	1,245.4	1,219.6	25.80	48.267		
3,200.0	2,659.0	2,871.2	2,759.4	29.7	13.6	-151.84	631.7	-255.9	1,290.8	1,264.0	26.80	48.167		
3,300.0	2,743.8	2,962.0	2,845.3	30.7	14.1	-152.17	659.5	-266.0	1,332.1	1,304.2	27.84	47.846		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 13A-13
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 13A-13	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S14-T7S-R96W - Nolte 44A-14 - DD - Plan #3													Offset Site Error: 0.0 ft	
Survey Program: 0-MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-152.48	-35.5	-18.5	40.0					
100.0	100.0	100.0	100.0	0.1	0.1	-152.48	-35.5	-18.5	40.0	39.7	0.26	156.365		
200.0	200.0	200.0	200.0	0.3	0.3	-152.48	-35.5	-18.5	40.0	39.4	0.60	66.111	CC, ES	
300.0	300.0	300.0	300.0	0.5	0.5	176.17	-35.5	-18.5	42.6	41.6	0.95	44.692		
400.0	399.6	399.6	399.6	0.7	0.7	176.75	-35.5	-18.5	50.4	49.1	1.30	38.825		
500.0	498.8	499.3	499.3	1.0	0.8	177.74	-35.1	-18.7	63.2	61.6	1.64	38.531	SF	
600.0	597.1	599.1	599.1	1.4	1.0	-179.60	-32.1	-20.4	79.8	77.8	1.98	40.209		
700.0	694.3	698.3	698.0	1.8	1.2	-176.14	-26.1	-23.7	100.0	97.7	2.34	42.788		
800.0	790.2	796.7	795.8	2.3	1.4	-172.59	-17.2	-28.7	124.3	121.5	2.72	45.612		
900.0	884.4	893.9	892.1	3.0	1.7	-169.24	-5.5	-35.3	152.7	149.5	3.17	48.173		
1,000.0	976.8	989.8	986.6	3.7	2.0	-166.19	8.7	-43.3	185.3	181.6	3.69	50.173		
1,100.0	1,067.1	1,084.2	1,079.0	4.5	2.3	-163.46	25.5	-52.7	222.2	217.9	4.31	51.539		
1,200.0	1,154.9	1,176.8	1,169.1	5.4	2.7	-161.01	44.5	-63.4	263.2	258.2	5.03	52.351		
1,300.0	1,240.2	1,267.6	1,256.5	6.4	3.1	-158.78	65.6	-75.2	308.3	302.4	5.84	52.752		
1,400.0	1,322.6	1,356.3	1,341.2	7.4	3.6	-156.74	88.5	-88.1	357.3	350.6	6.76	52.887		
1,500.0	1,401.9	1,441.7	1,422.1	8.6	4.1	-154.91	112.4	-101.6	410.3	402.5	7.73	53.061		
1,600.0	1,477.9	1,523.9	1,499.9	9.8	4.6	-153.48	135.6	-114.6	467.2	458.4	8.72	53.569		
1,700.0	1,551.0	1,603.7	1,575.4	11.1	5.0	-152.88	158.2	-127.3	527.3	517.6	9.70	54.376		
1,800.0	1,623.7	1,683.3	1,650.7	12.4	5.5	-152.80	180.6	-139.9	587.9	577.2	10.67	55.099		
1,900.0	1,696.3	1,762.8	1,726.0	13.6	5.9	-152.74	203.1	-152.5	648.5	636.8	11.65	55.678		
2,000.0	1,769.0	1,842.4	1,801.2	14.9	6.4	-152.69	225.6	-165.2	709.1	696.4	12.63	56.151		
2,100.0	1,841.6	1,922.0	1,876.5	16.2	6.9	-152.64	248.1	-177.8	769.7	756.0	13.61	56.543		
2,200.0	1,914.3	2,001.5	1,951.7	17.5	7.3	-152.60	270.5	-190.4	830.2	815.6	14.60	56.873		
2,300.0	1,987.0	2,081.1	2,027.0	18.7	7.8	-152.57	293.0	-203.0	890.8	875.2	15.59	57.154		
2,400.0	2,059.6	2,160.6	2,102.3	20.0	8.3	-152.54	315.5	-215.7	951.4	934.8	16.58	57.395		
2,500.0	2,132.3	2,240.2	2,177.5	21.3	8.7	-152.52	338.0	-228.3	1,012.0	994.4	17.57	57.606		
2,600.0	2,205.0	2,319.8	2,252.8	22.6	9.2	-152.50	360.4	-240.9	1,072.6	1,054.0	18.56	57.790		
2,700.0	2,277.6	2,396.2	2,325.3	23.9	9.6	-152.51	381.6	-252.8	1,133.2	1,113.7	19.51	58.080		
2,800.0	2,350.3	2,471.3	2,397.1	25.2	10.0	-152.64	400.7	-263.6	1,194.2	1,173.8	20.38	58.595		
2,900.0	2,423.1	2,545.8	2,468.9	26.4	10.4	-153.15	418.1	-273.4	1,255.3	1,234.1	21.14	59.366		
3,000.0	2,498.5	2,621.8	2,542.6	27.6	10.7	-154.33	434.2	-282.4	1,313.9	1,292.2	21.76	60.379		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 13A-13
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 13A-13	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		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	-152.48	-42.6	-22.2	48.0					
100.0	100.0	100.0	100.0	0.1	0.1	-152.48	-42.6	-22.2	48.0	47.7	0.26	187.562		
200.0	200.0	200.0	200.0	0.3	0.3	-152.48	-42.6	-22.2	48.0	47.4	0.60	79.326 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	176.13	-42.6	-22.2	50.6	49.6	0.95	53.082		
400.0	399.6	399.6	399.6	0.7	0.7	176.64	-42.6	-22.2	58.4	57.1	1.30	44.982		
500.0	498.8	498.8	498.8	1.0	0.8	177.23	-42.6	-22.2	71.5	69.8	1.64	43.561 SF		
600.0	597.1	597.0	597.0	1.4	1.0	179.38	-41.3	-24.3	89.7	87.7	1.98	45.309		
700.0	694.3	693.6	693.3	1.8	1.2	-176.65	-37.7	-30.7	113.5	111.1	2.33	48.617		
800.0	790.2	788.6	787.6	2.3	1.4	-172.71	-32.4	-40.1	143.1	140.4	2.71	52.753		
900.0	884.4	882.1	880.5	3.0	1.6	-170.23	-27.0	-49.5	178.0	174.9	3.11	57.270		
1,000.0	976.8	973.7	971.5	3.7	1.9	-168.72	-21.7	-58.7	217.9	214.4	3.51	62.013		
1,100.0	1,067.1	1,063.1	1,060.3	4.5	2.1	-167.80	-16.6	-67.7	262.5	258.6	3.92	66.911		
1,200.0	1,154.9	1,150.2	1,146.8	5.4	2.3	-167.24	-11.6	-76.5	311.6	307.3	4.33	71.930		
1,300.0	1,240.2	1,234.7	1,230.8	6.4	2.5	-166.88	-6.7	-85.0	365.1	360.3	4.74	77.043		
1,400.0	1,322.6	1,316.3	1,311.8	7.4	2.7	-166.64	-2.1	-93.2	422.8	417.7	5.14	82.215		
1,500.0	1,401.9	1,394.9	1,389.9	8.6	2.9	-166.45	2.5	-101.1	484.6	479.1	5.54	87.404		
1,600.0	1,477.9	1,470.2	1,464.6	9.8	3.1	-166.28	6.8	-108.7	550.4	544.4	5.95	92.550		
1,700.0	1,551.0	1,542.5	1,536.4	11.1	3.3	-166.44	10.9	-116.0	619.4	613.0	6.36	97.339		
1,800.0	1,623.7	1,614.4	1,607.8	12.4	3.5	-166.84	15.0	-123.2	688.8	682.0	6.79	101.409		
1,900.0	1,696.3	1,686.3	1,679.3	13.6	3.7	-167.17	19.2	-130.5	758.2	751.0	7.22	105.001		
2,000.0	1,769.0	1,758.2	1,750.7	14.9	3.9	-167.44	23.3	-137.7	827.7	820.0	7.65	108.195		
2,100.0	1,841.6	1,830.1	1,822.1	16.2	4.1	-167.67	27.4	-145.0	897.1	889.0	8.08	111.054		
2,200.0	1,914.3	1,902.0	1,893.5	17.5	4.3	-167.87	31.6	-152.2	966.6	958.1	8.51	113.627		
2,300.0	1,987.0	1,973.9	1,965.0	18.7	4.4	-168.04	35.7	-159.4	1,036.0	1,027.1	8.93	115.955		
2,400.0	2,059.6	2,045.8	2,036.4	20.0	4.6	-168.18	39.8	-166.7	1,105.5	1,096.1	9.36	118.072		
2,500.0	2,132.3	2,117.7	2,107.8	21.3	4.8	-168.32	43.9	-173.9	1,175.0	1,165.2	9.79	120.006		
2,600.0	2,205.0	2,189.6	2,179.2	22.6	5.0	-168.43	48.1	-181.2	1,244.4	1,234.2	10.22	121.778		
2,700.0	2,277.6	2,261.5	2,250.6	23.9	5.2	-168.54	52.2	-188.4	1,313.9	1,303.3	10.65	123.409		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 13A-13
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 13A-13	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		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	-152.47	-49.6	-25.9	56.0					
100.0	100.0	100.0	100.0	0.1	0.1	-152.47	-49.6	-25.9	56.0	55.7	0.26	218.664		
200.0	200.0	200.0	200.0	0.3	0.3	-152.47	-49.6	-25.9	56.0	55.4	0.61	92.520 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	176.11	-49.6	-25.9	58.6	57.6	0.95	61.461		
400.0	399.6	399.6	399.6	0.7	0.7	176.55	-49.6	-25.9	66.4	65.1	1.30	51.132		
500.0	498.8	496.2	496.1	1.0	0.8	178.44	-50.1	-28.3	81.0	79.4	1.64	49.456 SF		
600.0	597.1	590.0	589.7	1.4	1.0	-178.32	-51.4	-35.1	104.2	102.2	1.98	52.727		
700.0	694.3	679.9	679.1	1.8	1.2	-176.58	-55.9	-43.3	136.4	134.1	2.30	59.356		
800.0	790.2	772.0	770.5	2.3	1.4	-175.83	-62.4	-52.0	175.4	172.7	2.62	66.937		
900.0	884.4	861.9	859.8	3.0	1.7	-175.41	-68.7	-60.5	219.0	216.1	2.93	74.758		
1,000.0	976.8	949.4	946.8	3.7	1.9	-175.17	-74.8	-68.8	267.3	264.1	3.23	82.785		
1,100.0	1,067.1	1,034.3	1,031.1	4.5	2.1	-175.03	-80.8	-76.9	320.1	316.6	3.52	91.020		
1,200.0	1,154.9	1,116.4	1,112.5	5.4	2.3	-174.95	-86.6	-84.7	377.3	373.5	3.79	99.465		
1,300.0	1,240.2	1,195.3	1,190.9	6.4	2.5	-174.89	-92.1	-92.1	438.7	434.6	4.06	108.116		
1,400.0	1,322.6	1,271.0	1,266.0	7.4	2.7	-174.83	-97.4	-99.3	504.1	499.7	4.31	116.962		
1,500.0	1,401.9	1,343.1	1,337.6	8.6	2.9	-174.77	-102.5	-106.1	573.3	568.8	4.55	125.986		
1,600.0	1,477.9	1,411.5	1,405.5	9.8	3.1	-174.70	-107.3	-112.6	646.2	641.4	4.78	135.150		
1,700.0	1,551.0	1,476.5	1,470.2	11.1	3.3	-174.77	-111.8	-118.8	722.1	717.1	5.05	143.104		
1,800.0	1,623.7	1,541.2	1,534.3	12.4	3.4	-174.95	-116.4	-124.9	798.4	793.1	5.35	149.373		
1,900.0	1,696.3	1,605.8	1,598.5	13.6	3.6	-175.10	-120.9	-131.0	874.7	869.1	5.64	155.006		
2,000.0	1,769.0	1,670.4	1,662.7	14.9	3.8	-175.23	-125.4	-137.2	951.0	945.1	5.94	160.093		
2,100.0	1,841.6	1,735.1	1,726.9	16.2	3.9	-175.34	-130.0	-143.3	1,027.3	1,021.1	6.24	164.714		
2,200.0	1,914.3	1,799.7	1,791.1	17.5	4.1	-175.43	-134.5	-149.4	1,103.6	1,097.1	6.53	168.930		
2,300.0	1,987.0	1,864.3	1,855.3	18.7	4.3	-175.52	-139.1	-155.5	1,179.9	1,173.1	6.83	172.791		
2,400.0	2,059.6	1,929.0	1,919.4	20.0	4.5	-175.59	-143.6	-161.7	1,256.2	1,249.1	7.12	176.343		
2,500.0	2,132.3	1,993.6	1,983.6	21.3	4.6	-175.65	-148.1	-167.8	1,332.5	1,325.1	7.42	179.621		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 13A-13
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 13A-13	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		
0.0	0.0	0.0	0.0	0.0	0.0	-152.47	-56.7	-29.6	64.0					
100.0	100.0	100.0	100.0	0.1	0.1	-152.47	-56.7	-29.6	64.0	63.7	0.26	249.720		
200.0	200.0	200.0	200.0	0.3	0.3	-152.47	-56.7	-29.6	64.0	63.4	0.61	105.702	CC, ES	
300.0	300.0	300.0	300.0	0.5	0.5	176.09	-56.7	-29.6	66.6	65.6	0.95	69.834		
400.0	399.6	399.6	399.6	0.7	0.7	176.49	-56.7	-29.6	74.4	73.1	1.30	57.277		
500.0	498.8	498.8	498.8	1.0	0.8	176.99	-56.7	-29.6	87.4	85.8	1.64	53.294	SF	
600.0	597.1	597.1	597.1	1.4	1.0	177.49	-56.7	-29.6	105.6	103.7	1.98	53.445		
700.0	694.3	694.3	694.3	1.8	1.2	177.91	-56.7	-29.6	129.0	126.7	2.31	55.942		
800.0	790.2	790.2	790.2	2.3	1.3	178.26	-56.7	-29.6	157.4	154.7	2.63	59.932		
900.0	884.4	884.4	884.4	3.0	1.5	178.54	-56.7	-29.6	190.7	187.8	2.94	64.963		
1,000.0	976.8	976.8	976.8	3.7	1.7	178.76	-56.7	-29.6	229.0	225.7	3.24	70.778		
1,100.0	1,067.1	1,067.1	1,067.1	4.5	1.8	178.93	-56.7	-29.6	272.0	268.5	3.52	77.224		
1,200.0	1,154.9	1,154.9	1,154.9	5.4	2.0	179.06	-56.7	-29.6	319.7	315.9	3.80	84.207		
1,300.0	1,240.2	1,240.2	1,240.2	6.4	2.1	179.17	-56.7	-29.6	372.0	367.9	4.06	91.668		
1,400.0	1,322.6	1,322.6	1,322.6	7.4	2.3	179.25	-56.7	-29.6	428.6	424.3	4.30	99.568		
1,500.0	1,401.9	1,401.9	1,401.9	8.6	2.4	179.32	-56.7	-29.6	489.5	484.9	4.54	107.884		
1,600.0	1,477.9	1,477.9	1,477.9	9.8	2.5	179.37	-56.7	-29.6	554.4	549.6	4.75	116.598		
1,700.0	1,551.0	1,551.0	1,551.0	11.1	2.7	179.43	-56.7	-29.6	622.7	617.7	5.01	124.287		
1,800.0	1,623.7	1,623.7	1,623.7	12.4	2.8	179.48	-56.7	-29.6	691.4	686.1	5.31	130.296		
1,900.0	1,696.3	1,696.3	1,696.3	13.6	2.9	179.53	-56.7	-29.6	760.1	754.5	5.60	135.689		
2,000.0	1,769.0	1,769.0	1,769.0	14.9	3.0	179.57	-56.7	-29.6	828.8	822.9	5.90	140.558		
2,100.0	1,841.6	1,841.6	1,841.6	16.2	3.2	179.60	-56.7	-29.6	897.5	891.3	6.19	144.976		
2,200.0	1,914.3	1,914.3	1,914.3	17.5	3.3	179.63	-56.7	-29.6	966.2	959.7	6.48	149.005		
2,300.0	1,987.0	1,987.0	1,987.0	18.7	3.4	179.65	-56.7	-29.6	1,034.9	1,028.1	6.78	152.694		
2,400.0	2,059.6	2,059.6	2,059.6	20.0	3.5	179.68	-56.7	-29.6	1,103.6	1,096.5	7.07	156.084		
2,500.0	2,132.3	2,132.3	2,132.3	21.3	3.7	179.70	-56.7	-29.6	1,172.3	1,164.9	7.36	159.212		
2,600.0	2,205.0	2,205.0	2,205.0	22.6	3.8	179.71	-56.7	-29.6	1,241.0	1,233.4	7.66	162.106		
2,700.0	2,277.6	2,277.6	2,277.6	23.9	3.9	179.73	-56.7	-29.6	1,309.7	1,301.8	7.95	164.793		

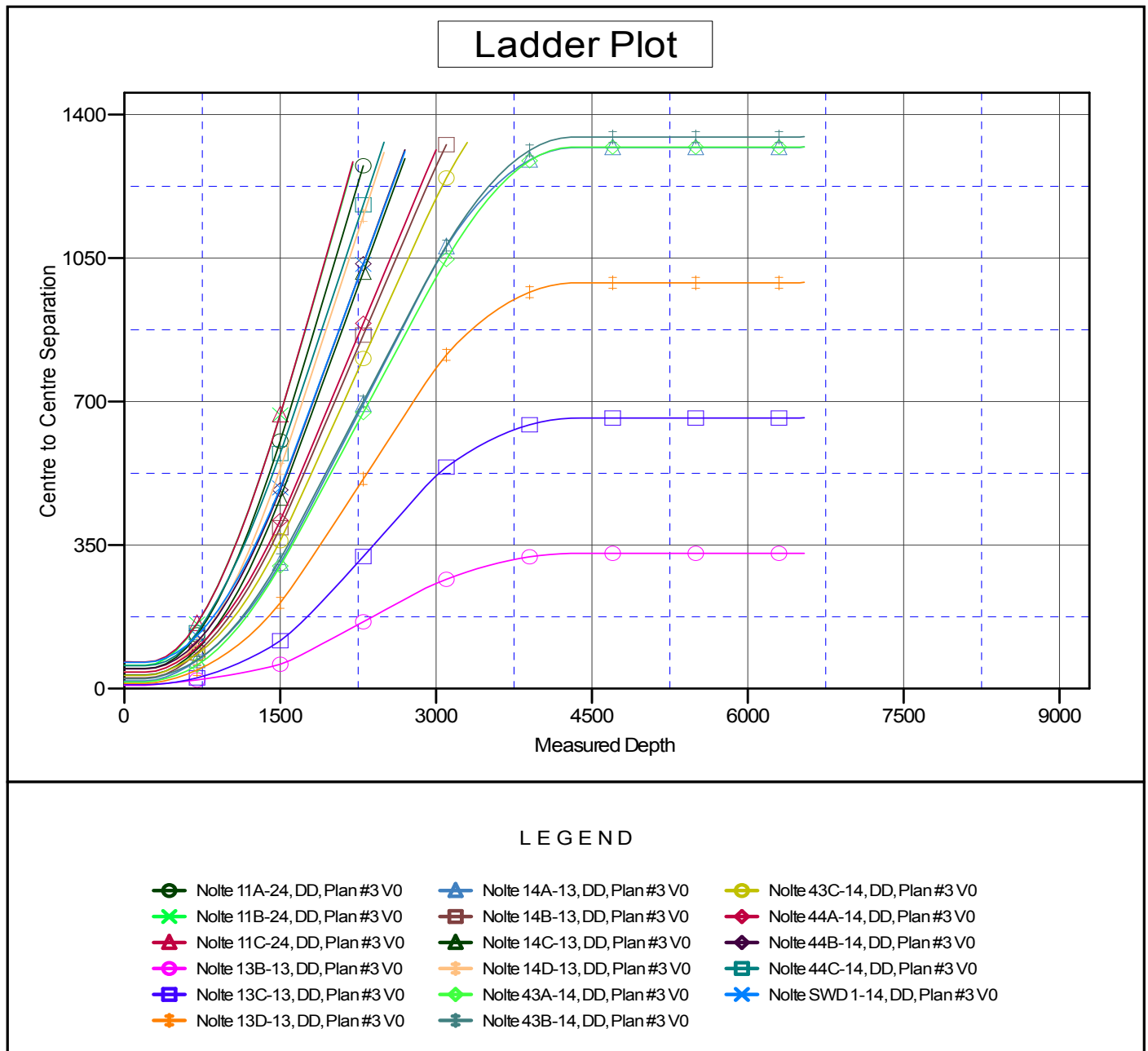
Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 13A-13
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 13A-13	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 13A-13
Coordinate System is US State Plane 1927 (Exact solution), Colorado Central 502
Grid Convergence at Surface is: -1.62°



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