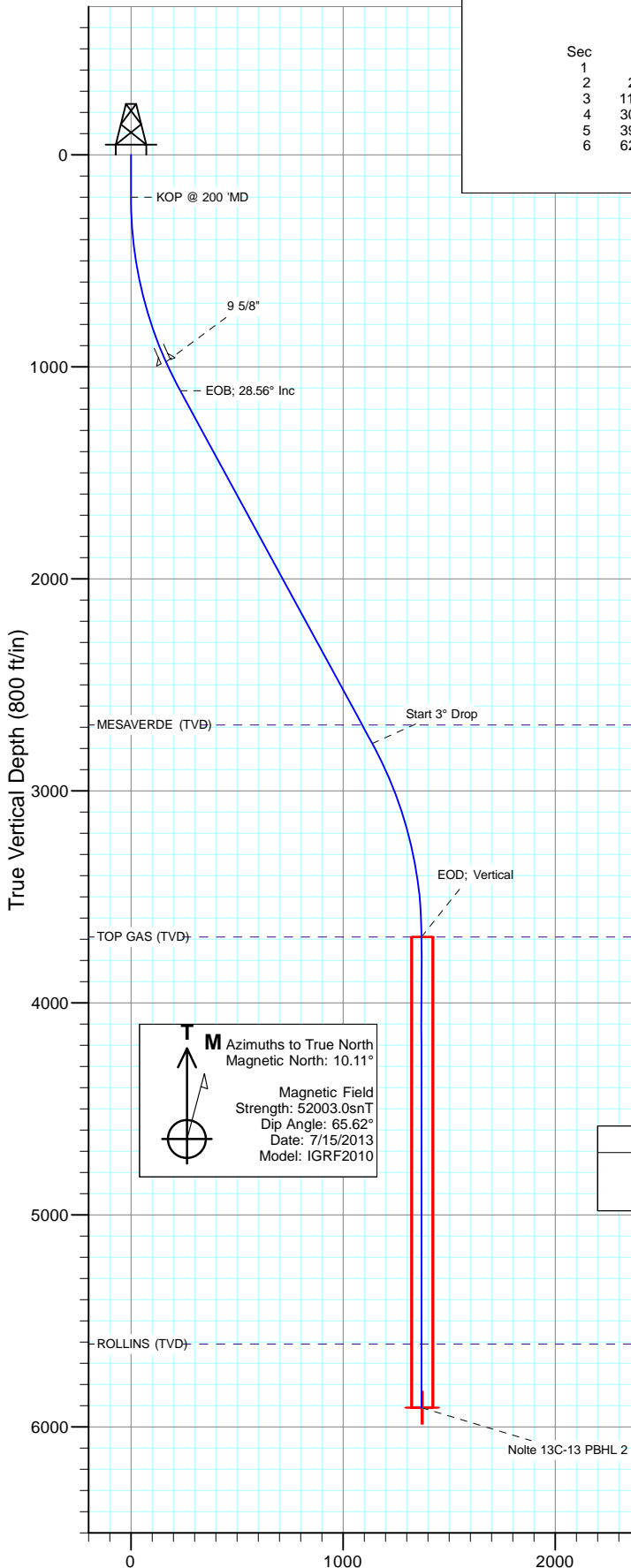
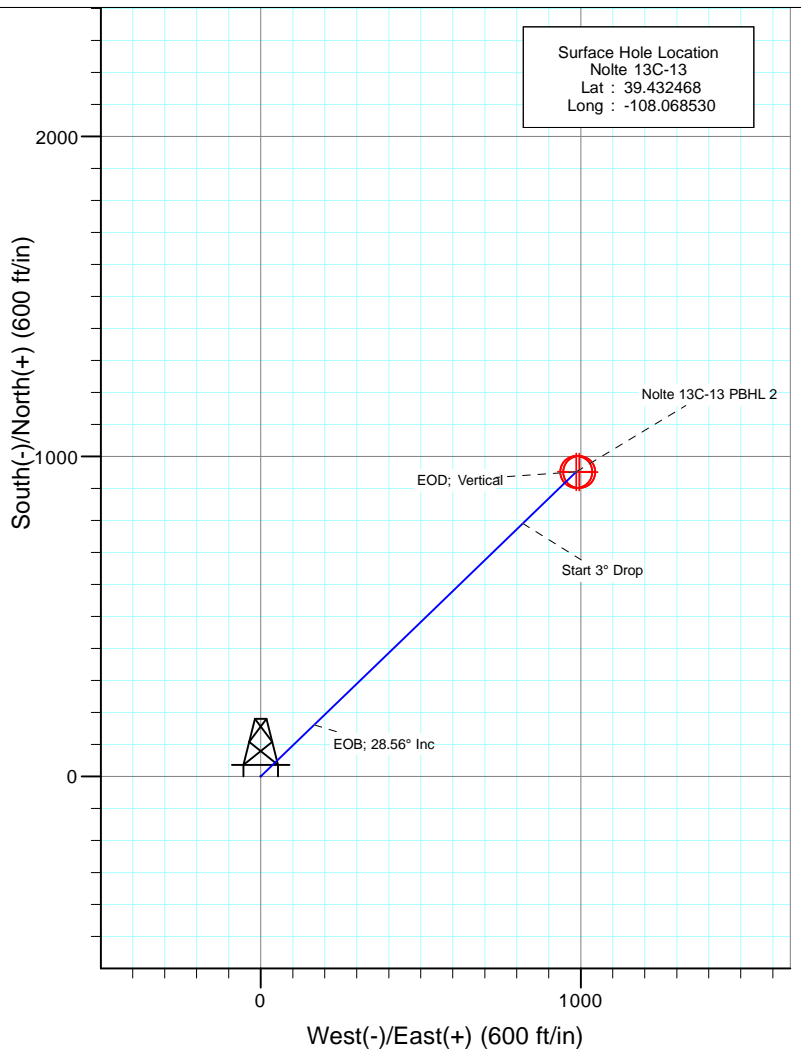




Project: Garfield County, CO
 Site: S14-T7S-R96W
 Well: Nolte 13C-13
 Wellbore: DD
 Design: Plan #3



SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.0	
3	1152.0	28.56	46.02	1113.0	161.4	167.2	3.00	46.02	232.4	
4	3046.4	28.56	46.02	2777.0	790.3	818.9	0.00	0.00	1138.0	
5	3998.4	0.00	0.00	3690.0	951.6	986.1	3.00	180.00	1370.4	
6	6218.4	0.00	0.00	5910.0	951.6	986.1	0.00	0.00	1370.4	Nolte 13C-13 PBHL 2



M Azimuths to True North
 Magnetic North: 10.11°
 Magnetic Field
 Strength: 52003.0snT
 Dip Angle: 65.62°
 Date: 7/15/2013
 Model: IGRF2010

DESIGN TARGET DETAILS						
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Nolte 13C-13 PBHL	951.3	995.3	593574.08	1275607.49	39.435080	-108.065007
Nolte 13C-13 PBHL 2	951.6	986.1	593574.71	1275598.30	39.435081	-108.065039

Plan #3
 Nolte 13C-13
 WELL @ 5117.6ft (Original Well Elev)
 Ground Elevation @ 5090.4
 NAD 1927 (NADCON CONUS)
 Well Nolte 13C-13, True North

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
2690.0	2947.4	MESAVERDE (TVD)
3690.0	3998.4	TOP GAS (TVD)
5610.0	5918.4	ROLLINS (TVD)

Vertical Section at 46.30° (800 ft/in)

Cathedral Energy Services

Planning Report

Database: USA EDM 5000 Multi Users DB	Local Co-ordinate Reference: Well Nolte 13C-13
Company: Caerus Oil & Gas (NAD 27)	TVD Reference: WELL @ 5117.6ft (Original Well Elev)
Project: Garfield County, CO	MD Reference: WELL @ 5117.6ft (Original Well Elev)
Site: S14-T7S-R96W	North Reference: True
Well: Nolte 13C-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 13C-13						
Well Position	+N/-S	0.0 ft	Northing:	592,651.33 ft	Latitude:	39.432468
	+E/-W	0.0 ft	Easting:	1,274,585.69 ft	Longitude:	-108.068530
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	5,090.4 ft

Wellbore DD					
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF2010	7/15/2013	(°)	(°)	(nT)
			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	46.30	

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,152.0	28.56	46.02	1,113.0	161.4	167.2	3.00	3.00	0.00	46.02	
3,046.4	28.56	46.02	2,777.0	790.3	818.9	0.00	0.00	0.00	0.00	
3,998.4	0.00	0.00	3,690.0	951.6	986.1	3.00	-3.00	0.00	180.00	
6,218.4	0.00	0.00	5,910.0	951.6	986.1	0.00	0.00	0.00	0.00	Nolte 13C-13 PBHL 2

Cathedral Energy Services

Planning Report

Database: USA EDM 5000 Multi Users DB
Company: Caerus Oil & Gas (NAD 27)
Project: Garfield County, CO
Site: S14-T7S-R96W
Well: Nolte 13C-13
Wellbore: DD
Design: Plan #3

Local Co-ordinate Reference: Well Nolte 13C-13
TVD Reference: WELL @ 5117.6ft (Original Well Elev)
MD Reference: WELL @ 5117.6ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

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	46.02	300.0	1.8	1.9	2.6	3.00	3.00	
400.0	6.00	46.02	399.6	7.3	7.5	10.5	3.00	3.00	
500.0	9.00	46.02	498.8	16.3	16.9	23.5	3.00	3.00	
600.0	12.00	46.02	597.1	29.0	30.0	41.7	3.00	3.00	
700.0	15.00	46.02	694.3	45.2	46.8	65.1	3.00	3.00	
800.0	18.00	46.02	790.2	64.9	67.3	93.5	3.00	3.00	
900.0	21.00	46.02	884.4	88.1	91.3	126.9	3.00	3.00	
1,000.0	24.00	46.02	976.8	114.7	118.8	165.1	3.00	3.00	9 5/8"
1,100.0	27.00	46.02	1,067.1	144.6	149.8	208.2	3.00	3.00	
1,152.0	28.56	46.02	1,113.1	161.4	167.2	232.4	3.00	3.00	EOB; 28.56° Inc
1,200.0	28.56	46.02	1,155.2	177.3	183.7	255.3	0.00	0.00	
1,300.0	28.56	46.02	1,243.1	210.5	218.1	303.1	0.00	0.00	
1,400.0	28.56	46.02	1,330.9	243.7	252.5	351.0	0.00	0.00	
1,500.0	28.56	46.02	1,418.7	276.9	286.9	398.8	0.00	0.00	
1,600.0	28.56	46.02	1,506.6	310.1	321.3	446.6	0.00	0.00	
1,700.0	28.56	46.02	1,594.4	343.3	355.7	494.4	0.00	0.00	
1,800.0	28.56	46.02	1,682.2	376.5	390.1	542.2	0.00	0.00	
1,900.0	28.56	46.02	1,770.1	409.7	424.5	590.0	0.00	0.00	
2,000.0	28.56	46.02	1,857.9	442.9	458.9	637.8	0.00	0.00	
2,100.0	28.56	46.02	1,945.7	476.1	493.3	685.6	0.00	0.00	
2,200.0	28.56	46.02	2,033.6	509.3	527.7	733.4	0.00	0.00	
2,300.0	28.56	46.02	2,121.4	542.5	562.1	781.2	0.00	0.00	
2,400.0	28.56	46.02	2,209.2	575.7	596.5	829.0	0.00	0.00	
2,500.0	28.56	46.02	2,297.1	608.9	630.9	876.8	0.00	0.00	
2,600.0	28.56	46.02	2,384.9	642.1	665.3	924.6	0.00	0.00	
2,700.0	28.56	46.02	2,472.7	675.3	699.7	972.4	0.00	0.00	
2,800.0	28.56	46.02	2,560.6	708.5	734.1	1,020.2	0.00	0.00	
2,900.0	28.56	46.02	2,648.4	741.7	768.5	1,068.0	0.00	0.00	
2,947.4	28.56	46.02	2,690.0	757.4	784.8	1,090.7	0.00	0.00	MESAVERDE (TVD)
3,000.0	28.56	46.02	2,736.2	774.9	802.9	1,115.8	0.00	0.00	
3,046.4	28.56	46.02	2,777.0	790.3	818.9	1,138.0	0.00	0.00	Start 3° Drop
3,100.0	26.95	46.02	2,824.4	807.6	836.8	1,163.0	3.00	-3.00	
3,200.0	23.95	46.02	2,914.7	837.4	867.8	1,205.9	3.00	-3.00	
3,300.0	20.95	46.02	3,007.1	864.0	895.2	1,244.1	3.00	-3.00	
3,400.0	17.95	46.02	3,101.4	887.1	919.2	1,277.4	3.00	-3.00	
3,500.0	14.95	46.02	3,197.3	906.7	939.6	1,305.7	3.00	-3.00	
3,600.0	11.95	46.02	3,294.5	922.9	956.3	1,329.0	3.00	-3.00	
3,700.0	8.95	46.02	3,392.9	935.5	969.4	1,347.1	3.00	-3.00	
3,800.0	5.95	46.02	3,492.0	944.5	978.7	1,360.1	3.00	-3.00	
3,900.0	2.95	46.02	3,591.7	949.9	984.3	1,367.9	3.00	-3.00	
3,998.4	0.00	0.00	3,690.0	951.6	986.1	1,370.4	3.00	-3.00	EOD; Vertical - TOP GAS (TVD)
4,000.0	0.00	0.00	3,691.6	951.6	986.1	1,370.4	0.00	0.00	
4,100.0	0.00	0.00	3,791.6	951.6	986.1	1,370.4	0.00	0.00	
4,200.0	0.00	0.00	3,891.6	951.6	986.1	1,370.4	0.00	0.00	
4,300.0	0.00	0.00	3,991.6	951.6	986.1	1,370.4	0.00	0.00	
4,400.0	0.00	0.00	4,091.6	951.6	986.1	1,370.4	0.00	0.00	
4,500.0	0.00	0.00	4,191.6	951.6	986.1	1,370.4	0.00	0.00	
4,600.0	0.00	0.00	4,291.6	951.6	986.1	1,370.4	0.00	0.00	
4,700.0	0.00	0.00	4,391.6	951.6	986.1	1,370.4	0.00	0.00	

Cathedral Energy Services

Planning Report

Database: USA EDM 5000 Multi Users DB	Local Co-ordinate Reference: Well Nolte 13C-13
Company: Caerus Oil & Gas (NAD 27)	TVD Reference: WELL @ 5117.6ft (Original Well Elev)
Project: Garfield County, CO	MD Reference: WELL @ 5117.6ft (Original Well Elev)
Site: S14-T7S-R96W	North Reference: True
Well: Nolte 13C-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	4,491.6	951.6	986.1	1,370.4	0.00	0.00	
4,900.0	0.00	0.00	4,591.6	951.6	986.1	1,370.4	0.00	0.00	
5,000.0	0.00	0.00	4,691.6	951.6	986.1	1,370.4	0.00	0.00	
5,100.0	0.00	0.00	4,791.6	951.6	986.1	1,370.4	0.00	0.00	
5,200.0	0.00	0.00	4,891.6	951.6	986.1	1,370.4	0.00	0.00	
5,300.0	0.00	0.00	4,991.6	951.6	986.1	1,370.4	0.00	0.00	
5,400.0	0.00	0.00	5,091.6	951.6	986.1	1,370.4	0.00	0.00	
5,500.0	0.00	0.00	5,191.6	951.6	986.1	1,370.4	0.00	0.00	
5,600.0	0.00	0.00	5,291.6	951.6	986.1	1,370.4	0.00	0.00	
5,700.0	0.00	0.00	5,391.6	951.6	986.1	1,370.4	0.00	0.00	
5,800.0	0.00	0.00	5,491.6	951.6	986.1	1,370.4	0.00	0.00	
5,900.0	0.00	0.00	5,591.6	951.6	986.1	1,370.4	0.00	0.00	
5,918.4	0.00	0.00	5,610.0	951.6	986.1	1,370.4	0.00	0.00	ROLLINS (TVD)
6,000.0	0.00	0.00	5,691.6	951.6	986.1	1,370.4	0.00	0.00	
6,100.0	0.00	0.00	5,791.6	951.6	986.1	1,370.4	0.00	0.00	
6,200.0	0.00	0.00	5,891.6	951.6	986.1	1,370.4	0.00	0.00	
6,218.4	0.00	0.00	5,910.0	951.6	986.1	1,370.4	0.00	0.00	PBHL @ 6,218' MD

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Nolte 13C-13 PBHL 2 - hit/miss target - Shape - plan hits target center - Circle (radius 50.0)	0.00	0.00	5,910.0	951.6	986.1	593,574.71	1,275,598.30	39.435081	-108.065039
Nolte 13C-13 PBHL - plan misses target center by 9.2ft at 6218.4ft MD (5910.0 TVD, 951.6 N, 986.1 E) - Circle (radius 50.0)	0.00	0.00	5,910.0	951.3	995.3	593,574.08	1,275,607.49	39.435080	-108.065007

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 (°)
2,947.4	2,690.0	MESAVERDE (TVD)		0.00	
3,998.4	3,690.0	TOP GAS (TVD)		0.00	
5,918.4	5,610.0	ROLLINS (TVD)		0.00	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Nolte 13C-13
Company:	Caerus Oil & Gas (NAD 27)	TVD Reference:	WELL @ 5117.6ft (Original Well Elev)
Project:	Garfield County, CO	MD Reference:	WELL @ 5117.6ft (Original Well Elev)
Site:	S14-T7S-R96W	North Reference:	True
Well:	Nolte 13C-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
1,152.0	1,113.1	161.4	167.2	EOB; 28.56° Inc
3,046.4	2,777.0	790.3	818.9	Start 3° Drop
3,998.4	3,690.0	951.6	986.1	EOD; Vertical
6,218.4	5,910.0	951.6	986.1	PBHL @ 6,218' MD

Caerus Oil & Gas (NAD 27)

Garfield County, CO

S14-T7S-R96W

Nolte 13C-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 13C-13
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.6ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.6ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 13C-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	6,218.4	Plan #3 (DD)	MWD	Geolink MWD

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Summary						
S14-T7S-R96W						
Offset Well - Wellbore - Design						
Nolte 11A-24 - DD - Plan #3	200.0	200.2	48.0	47.4	79.443	CC, ES
Nolte 11A-24 - DD - Plan #3	500.0	497.0	73.1	71.4	43.091	SF
Nolte 11B-24 - DD - Plan #3	166.6	166.8	56.0	55.5	114.811	CC
Nolte 11B-24 - DD - Plan #3	200.0	200.0	56.0	55.4	92.712	ES
Nolte 11B-24 - DD - Plan #3	500.0	492.9	88.4	86.7	49.661	SF
Nolte 11C-24 - DD - Plan #3	200.0	190.5	64.0	63.4	105.852	CC, ES
Nolte 11C-24 - DD - Plan #3	500.0	483.8	93.5	91.8	54.725	SF
Nolte 13A-13 - DD - Plan #3	200.1	200.3	10.0	9.4	16.555	CC, ES
Nolte 13A-13 - DD - Plan #3	1,300.0	1,295.1	86.5	74.0	6.920	SF
Nolte 13B-13 - DD - Plan #3	200.0	200.2	12.8	12.2	21.211	CC, ES
Nolte 13B-13 - DD - Plan #3	1,600.0	1,609.5	73.1	54.9	4.030	SF
Nolte 13D-13 - DD - Plan #3	200.0	200.2	8.0	7.4	13.257	CC, ES
Nolte 13D-13 - DD - Plan #3	6,200.0	6,122.5	329.9	287.6	7.805	SF
Nolte 14A-13 - DD - Plan #3	200.0	200.2	16.0	15.4	26.514	CC, ES
Nolte 14A-13 - DD - Plan #3	6,200.0	6,060.0	660.2	617.8	15.588	SF
Nolte 14B-13 - DD - Plan #3	200.0	200.2	24.0	23.4	39.753	CC, ES
Nolte 14B-13 - DD - Plan #3	6,200.0	6,048.1	990.2	947.7	23.286	SF
Nolte 14C-13 - DD - Plan #3	200.0	200.2	31.5	30.9	52.182	CC, ES
Nolte 14C-13 - DD - Plan #3	6,200.0	6,052.0	1,330.6	1,288.0	31.252	SF
Nolte 14D-13 - DD - Plan #3	200.0	200.2	40.0	39.4	66.207	CC, ES
Nolte 14D-13 - DD - Plan #3	500.0	499.0	62.7	61.1	37.886	SF
Nolte 43A-14 - DD - Plan #3	200.0	200.2	18.9	18.3	31.240	CC, ES
Nolte 43A-14 - DD - Plan #3	400.0	400.4	28.2	26.9	21.537	SF
Nolte 43B-14 - DD - Plan #3	200.0	200.2	26.0	25.4	43.031	CC, ES
Nolte 43B-14 - DD - Plan #3	400.0	400.3	36.1	34.8	27.814	SF
Nolte 43C-14 - DD - Plan #3	200.0	200.2	33.5	32.9	55.437	CC, ES
Nolte 43C-14 - DD - Plan #3	400.0	399.8	44.0	42.7	33.868	SF
Nolte 44A-14 - DD - Plan #3	200.0	200.2	41.2	40.6	68.160	CC, ES
Nolte 44A-14 - DD - Plan #3	500.0	499.3	64.6	62.9	39.343	SF
Nolte 44B-14 - DD - Plan #3	200.0	200.2	49.0	48.4	81.048	CC, ES
Nolte 44B-14 - DD - Plan #3	500.0	499.0	72.4	70.8	44.128	SF
Nolte 44C-14 - DD - Plan #3	200.0	200.2	56.9	56.3	94.007	CC, ES
Nolte 44C-14 - DD - Plan #3	500.0	495.8	82.1	80.5	50.146	SF
Nolte SWD 1-14 - DD - Plan #3	200.0	200.2	64.8	64.1	107.013	CC, ES
Nolte SWD 1-14 - DD - Plan #3	500.0	499.0	88.0	86.4	53.571	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 13C-13
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.6ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.6ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 13C-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													Offset Site Error:	0.0 ft	
Survey Program: 0-MWD													Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance		Total	Separation	Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor			
0.0	0.0	0.2	0.2	0.0	0.0	-152.48	-42.6	-22.2	48.0						
100.0	100.0	100.2	100.2	0.1	0.1	-152.48	-42.6	-22.2	48.0	47.7	0.25	188.194			
200.0	200.0	200.2	200.2	0.3	0.3	-152.48	-42.6	-22.2	48.0	47.4	0.60	79.443	CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	162.42	-42.6	-22.2	50.5	49.5	0.95	52.973			
400.0	399.6	399.1	399.0	0.7	0.7	162.21	-44.3	-20.3	58.6	57.3	1.31	44.820			
500.0	498.8	497.0	496.7	1.0	0.9	159.36	-49.5	-14.8	73.1	71.4	1.70	43.091	SF		
600.0	597.1	593.2	592.1	1.4	1.1	155.66	-58.0	-5.9	94.2	92.1	2.15	43.796			
700.0	694.3	687.0	684.4	1.8	1.4	152.10	-69.4	6.2	122.0	119.3	2.69	45.328			
800.0	790.2	777.9	772.9	2.4	1.8	149.00	-83.5	21.0	156.4	153.1	3.33	47.020			
900.0	884.4	865.3	857.0	3.0	2.3	146.36	-99.7	38.1	197.1	193.0	4.05	48.635			
1,000.0	976.8	948.8	936.4	3.7	2.8	144.06	-117.6	57.1	243.7	238.9	4.86	50.115			
1,100.0	1,067.1	1,028.3	1,010.7	4.5	3.3	142.00	-136.9	77.4	296.0	290.3	5.75	51.457			
1,200.0	1,155.2	1,100.0	1,076.8	5.4	3.8	140.70	-156.1	97.7	353.2	346.5	6.68	52.853			
1,300.0	1,243.1	1,176.3	1,145.9	6.3	4.4	139.84	-178.4	121.2	412.5	404.7	7.72	53.419			
1,400.0	1,330.9	1,246.5	1,208.3	7.2	5.0	138.88	-200.6	144.7	473.4	464.6	8.77	53.963			
1,500.0	1,418.7	1,314.2	1,267.2	8.1	5.7	137.87	-223.4	168.8	536.0	526.2	9.85	54.433			
1,600.0	1,506.6	1,379.3	1,322.8	9.0	6.3	136.84	-246.8	193.4	600.3	589.3	10.95	54.822			
1,700.0	1,594.4	1,447.3	1,379.7	9.9	7.0	135.75	-272.3	220.4	666.0	653.9	12.09	55.094			
1,800.0	1,682.2	1,521.8	1,441.8	10.8	7.8	134.73	-300.6	250.2	732.1	718.8	13.28	55.135			
1,900.0	1,770.1	1,596.2	1,503.9	11.6	8.6	133.87	-328.8	280.0	798.3	783.8	14.47	55.185			
2,000.0	1,857.9	1,670.7	1,566.0	12.5	9.3	133.15	-357.0	309.9	864.5	848.9	15.65	55.236			
2,100.0	1,945.7	1,745.1	1,628.1	13.4	10.1	132.52	-385.3	339.7	930.9	914.1	16.84	55.290			
2,200.0	2,033.6	1,819.6	1,690.2	14.3	10.9	131.98	-413.5	369.5	997.3	979.3	18.02	55.344			
2,300.0	2,121.4	1,894.0	1,752.3	15.2	11.6	131.51	-441.7	399.3	1,063.7	1,044.5	19.20	55.396			
2,400.0	2,209.2	1,968.5	1,814.5	16.1	12.4	131.09	-470.0	429.1	1,130.2	1,109.9	20.38	55.445			
2,500.0	2,297.1	2,042.9	1,876.6	17.0	13.2	130.72	-498.2	458.9	1,196.8	1,175.2	21.57	55.493			
2,600.0	2,384.9	2,117.4	1,938.7	17.9	14.0	130.39	-526.4	488.7	1,263.3	1,240.5	22.75	55.538			
2,700.0	2,472.7	2,191.8	2,000.8	18.8	14.8	130.09	-554.7	518.5	1,329.9	1,305.9	23.93	55.581			

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 13C-13
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.6ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.6ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 13C-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													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	0.2	0.2	0.0	0.0	-152.47	-49.6	-25.9	56.0						
100.0	100.0	100.2	100.2	0.1	0.1	-152.47	-49.6	-25.9	56.0	55.7	0.26	219.413			
166.6	166.6	166.8	166.8	0.2	0.2	-152.47	-49.6	-25.9	56.0	55.5	0.49	114.811	CC		
200.0	200.0	200.0	200.0	0.3	0.3	-152.47	-49.6	-25.9	56.0	55.4	0.60	92.712	ES		
300.0	300.0	298.9	298.9	0.5	0.5	159.99	-51.6	-24.3	59.5	58.6	0.96	62.099			
400.0	399.6	396.8	396.4	0.7	0.7	156.38	-57.5	-19.5	70.3	68.9	1.34	52.287			
500.0	498.8	492.9	491.8	1.0	1.0	152.31	-67.0	-11.7	88.4	86.7	1.78	49.661	SF		
600.0	597.1	586.6	584.0	1.4	1.3	148.72	-79.9	-1.2	114.1	111.8	2.28	49.934			
700.0	694.3	677.3	672.3	1.8	1.7	145.82	-95.6	11.6	146.9	144.0	2.86	51.339			
800.0	790.2	764.2	756.1	2.4	2.2	143.50	-113.8	26.4	186.5	183.0	3.51	53.116			
900.0	884.4	847.1	834.8	3.0	2.6	141.55	-133.8	42.7	232.6	228.4	4.23	54.950			
1,000.0	976.8	925.6	908.2	3.7	3.2	139.84	-155.2	60.1	284.6	279.6	5.02	56.718			
1,100.0	1,067.1	1,000.0	976.8	4.5	3.7	138.23	-177.7	78.4	342.2	336.3	5.87	58.338			
1,200.0	1,155.2	1,068.8	1,039.1	5.4	4.3	137.38	-200.2	96.8	404.5	397.7	6.77	59.719			
1,300.0	1,243.1	1,135.2	1,098.3	6.3	4.8	137.14	-223.7	115.9	469.0	461.3	7.72	60.755			
1,400.0	1,330.9	1,200.0	1,154.9	7.2	5.4	136.71	-248.0	135.7	535.3	526.6	8.69	61.625			
1,500.0	1,418.7	1,260.2	1,206.6	8.1	6.0	136.20	-272.0	155.2	603.1	593.4	9.67	62.390			
1,600.0	1,506.6	1,318.8	1,255.9	9.0	6.6	135.62	-296.5	175.2	672.5	661.9	10.66	63.113			
1,700.0	1,594.4	1,374.9	1,302.2	9.9	7.2	135.02	-321.1	195.2	743.5	731.8	11.66	63.784			
1,800.0	1,682.2	1,428.5	1,345.5	10.8	7.8	134.41	-345.6	215.2	815.8	803.1	12.66	64.444			
1,900.0	1,770.1	1,479.8	1,386.2	11.6	8.4	133.80	-369.9	234.9	889.5	875.8	13.66	65.103			
2,000.0	1,857.9	1,528.8	1,424.2	12.5	9.0	133.20	-393.8	254.5	964.5	949.8	14.66	65.784			
2,100.0	1,945.7	1,588.1	1,469.4	13.4	9.7	132.50	-423.5	278.7	1,040.4	1,024.7	15.74	66.107			
2,200.0	2,033.6	1,652.5	1,518.5	14.3	10.5	131.83	-455.8	305.0	1,116.5	1,099.6	16.85	66.263			
2,300.0	2,121.4	1,716.9	1,567.6	15.2	11.3	131.25	-488.1	331.3	1,192.6	1,174.6	17.96	66.413			
2,400.0	2,209.2	1,781.3	1,616.8	16.1	12.1	130.73	-520.4	357.6	1,268.8	1,249.7	19.06	66.555			
2,500.0	2,297.1	1,845.7	1,665.9	17.0	12.9	130.27	-552.7	383.9	1,345.0	1,324.8	20.17	66.687			

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 13C-13
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.6ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.6ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 13C-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													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 Tooface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	-152.47	-56.7	-29.6	64.7						
100.0	100.0	90.5	90.5	0.1	0.1	-152.47	-56.7	-29.6	64.0	63.7	0.26	247.821			
200.0	200.0	190.5	190.5	0.3	0.3	-152.47	-56.7	-29.6	64.0	63.4	0.60	105.852 CC, ES			
300.0	300.0	289.8	289.8	0.5	0.5	161.88	-57.1	-29.3	66.7	65.7	0.95	69.974			
400.0	399.6	387.5	387.4	0.7	0.7	160.57	-60.8	-26.8	76.3	75.0	1.31	58.165			
500.0	498.8	483.8	483.2	1.0	0.9	157.93	-68.6	-21.6	93.5	91.8	1.71	54.725 SF			
600.0	597.1	577.7	576.1	1.4	1.2	154.99	-80.0	-14.0	118.1	116.0	2.16	54.745			
700.0	694.3	668.6	665.2	1.8	1.5	152.29	-94.7	-4.2	150.2	147.5	2.67	56.210			
800.0	790.2	755.7	749.8	2.4	1.9	149.95	-112.1	7.4	189.3	186.1	3.25	58.209			
900.0	884.4	838.6	829.3	3.0	2.3	147.92	-131.5	20.4	235.2	231.3	3.90	60.334			
1,000.0	976.8	917.0	903.5	3.7	2.8	146.09	-152.6	34.5	287.4	282.8	4.60	62.409			
1,100.0	1,067.1	990.5	972.1	4.5	3.3	144.39	-174.6	49.2	345.3	340.0	5.37	64.294			
1,200.0	1,155.2	1,059.3	1,035.3	5.4	3.8	143.39	-197.1	64.3	408.3	402.1	6.19	65.910			
1,300.0	1,243.1	1,125.0	1,094.8	6.3	4.3	142.97	-220.5	79.9	473.4	466.4	7.05	67.140			
1,400.0	1,330.9	1,188.1	1,150.9	7.2	4.9	142.42	-244.4	95.9	540.3	532.3	7.93	68.135			
1,500.0	1,418.7	1,248.6	1,203.7	8.1	5.4	141.81	-268.8	112.3	608.8	599.9	8.83	68.938			
1,600.0	1,506.6	1,300.0	1,247.9	9.0	5.9	141.24	-290.7	126.9	678.9	669.2	9.70	70.012			
1,700.0	1,594.4	1,361.7	1,300.0	9.9	6.5	140.51	-318.2	145.3	750.4	739.7	10.66	70.388			
1,800.0	1,682.2	1,414.5	1,343.7	10.8	7.1	139.87	-342.8	161.7	823.3	811.7	11.58	71.078			
1,900.0	1,770.1	1,465.0	1,384.7	11.6	7.7	139.23	-367.3	178.1	897.6	885.1	12.51	71.725			
2,000.0	1,857.9	1,500.0	1,412.6	12.5	8.0	138.79	-384.8	189.8	973.3	960.0	13.35	72.911			
2,100.0	1,945.7	1,559.1	1,459.0	13.4	8.7	138.03	-415.3	210.2	1,050.0	1,035.6	14.38	73.038			
2,200.0	2,033.6	1,600.0	1,490.4	14.3	9.2	137.50	-437.1	224.8	1,128.0	1,112.7	15.28	73.825			
2,300.0	2,121.4	1,644.9	1,524.1	15.2	9.8	136.92	-461.7	241.2	1,207.0	1,190.7	16.23	74.357			
2,400.0	2,209.2	1,700.0	1,564.7	16.1	10.5	136.20	-492.7	262.0	1,287.1	1,269.9	17.26	74.559			

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 13C-13
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.6ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.6ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 13C-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													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	0.2	0.2	0.0	0.0	-62.45	4.6	-8.9	10.0						
100.0	100.0	100.2	100.2	0.1	0.1	-62.45	4.6	-8.9	10.0	9.7	0.25	39.231			
200.0	200.0	200.2	200.2	0.3	0.3	-62.45	4.6	-8.9	10.0	9.4	0.60	16.560			
200.1	200.1	200.3	200.3	0.3	0.3	-62.45	4.6	-8.9	10.0	9.4	0.60	16.555 CC, ES			
300.0	300.0	300.2	300.2	0.5	0.5	-107.70	6.9	-7.5	10.6	9.7	0.97	10.980			
400.0	399.6	400.2	399.9	0.7	0.7	-105.96	13.6	-3.4	12.6	11.2	1.41	8.935			
500.0	498.8	500.2	499.0	1.0	1.0	-104.01	24.7	3.5	15.8	13.9	1.97	8.026			
600.0	597.1	600.1	597.1	1.4	1.4	-102.33	40.2	13.0	20.4	17.7	2.69	7.566			
700.0	694.3	699.8	694.2	1.8	1.8	-100.99	60.0	25.2	26.2	22.6	3.59	7.311			
800.0	790.2	799.5	789.7	2.4	2.3	-99.96	84.1	40.0	33.3	28.7	4.66	7.158			
900.0	884.4	899.0	883.5	3.0	3.0	-99.16	112.4	57.4	41.7	35.8	5.91	7.059			
1,000.0	976.8	998.4	975.3	3.7	3.7	-98.51	144.7	77.3	51.3	43.9	7.33	6.992			
1,100.0	1,067.1	1,097.5	1,064.9	4.5	4.5	-97.97	181.0	99.6	62.1	53.1	8.94	6.942			
1,200.0	1,155.2	1,196.5	1,151.9	5.4	5.4	-97.21	221.1	124.3	73.9	63.2	10.68	6.920			
1,300.0	1,243.1	1,295.1	1,236.1	6.3	6.3	-93.87	264.8	151.2	86.5	74.0	12.50	6.920 SF			
1,400.0	1,330.9	1,392.8	1,316.7	7.2	7.4	-88.56	311.7	180.0	100.4	86.1	14.30	7.026			
1,500.0	1,418.7	1,489.1	1,393.4	8.1	8.5	-82.29	361.3	210.5	116.7	100.7	15.93	7.322			
1,600.0	1,506.6	1,583.6	1,465.7	9.0	9.6	-75.81	413.1	242.4	136.1	118.8	17.32	7.858			
1,700.0	1,594.4	1,677.2	1,534.4	9.9	10.8	-69.61	467.3	275.7	159.4	140.9	18.42	8.653			
1,800.0	1,682.2	1,772.8	1,603.9	10.8	12.0	-64.61	523.2	310.1	184.7	165.3	19.38	9.527			
1,900.0	1,770.1	1,868.4	1,673.4	11.6	13.2	-60.81	579.2	344.6	211.0	190.7	20.31	10.387			
2,000.0	1,857.9	1,964.1	1,742.9	12.5	14.4	-57.86	635.1	379.0	238.0	216.7	21.23	11.207			
2,100.0	1,945.7	2,059.7	1,812.3	13.4	15.7	-55.50	691.1	413.4	265.4	243.3	22.16	11.978			
2,200.0	2,033.6	2,155.3	1,881.8	14.3	16.9	-53.58	747.1	447.8	293.3	270.2	23.10	12.696			
2,300.0	2,121.4	2,250.9	1,951.3	15.2	18.1	-52.00	803.0	482.3	321.3	297.3	24.05	13.362			
2,400.0	2,209.2	2,346.6	2,020.8	16.1	19.3	-50.67	859.0	516.7	349.6	324.6	25.01	13.980			
2,500.0	2,297.1	2,442.2	2,090.3	17.0	20.6	-49.53	915.0	551.1	378.0	352.0	25.97	14.553			
2,600.0	2,384.9	2,537.8	2,159.8	17.9	21.8	-48.56	970.9	585.5	406.5	379.6	26.95	15.085			
2,700.0	2,472.7	2,633.5	2,229.3	18.8	23.0	-47.71	1,026.9	619.9	435.2	407.2	27.93	15.579			
2,800.0	2,560.6	2,729.1	2,298.8	19.7	24.2	-46.97	1,082.8	654.4	463.8	434.9	28.92	16.038			
2,900.0	2,648.4	2,824.7	2,368.2	20.6	25.5	-46.31	1,138.8	688.8	492.6	462.7	29.92	16.466			
3,000.0	2,736.2	2,934.5	2,448.7	21.5	26.8	-45.71	1,202.4	727.9	520.8	489.8	30.99	16.807			
3,100.0	2,824.4	3,061.0	2,546.1	22.4	28.3	-45.72	1,271.1	770.2	544.9	512.5	32.37	16.831			
3,200.0	2,914.7	3,189.9	2,650.7	23.1	29.6	-45.99	1,335.4	809.7	566.7	532.9	33.74	16.794			
3,300.0	3,007.1	3,321.1	2,762.0	23.8	30.8	-46.21	1,394.4	846.0	586.5	551.5	34.97	16.773			
3,400.0	3,101.4	3,454.4	2,879.7	24.4	31.9	-46.39	1,447.6	878.7	604.2	568.1	36.04	16.765			
3,500.0	3,197.3	3,589.6	3,003.3	24.9	32.9	-46.53	1,494.2	907.4	619.6	582.6	36.96	16.765			
3,600.0	3,294.5	3,726.5	3,132.1	25.3	33.7	-46.63	1,533.8	931.7	632.6	594.9	37.71	16.777			
3,700.0	3,392.9	3,864.9	3,265.3	25.6	34.3	-46.68	1,565.7	951.4	643.2	604.9	38.30	16.796			
3,800.0	3,492.0	4,004.5	3,402.1	25.8	34.7	-46.70	1,589.4	966.0	651.3	612.6	38.72	16.819			
3,900.0	3,591.7	4,145.1	3,541.4	25.9	35.0	-46.67	1,604.7	975.4	656.8	617.8	38.98	16.851			
4,000.0	3,691.6	4,286.2	3,682.3	26.0	35.1	-0.59	1,611.2	979.3	659.6	620.5	39.07	16.882			
4,100.0	3,791.6	4,395.7	3,791.8	26.0	35.2	-0.57	1,611.4	979.5	659.8	620.6	39.20	16.832			
4,200.0	3,891.6	4,495.7	3,891.8	26.1	35.2	-0.57	1,611.4	979.5	659.8	620.5	39.33	16.775			
4,300.0	3,991.6	4,595.7	3,991.8	26.1	35.3	-0.57	1,611.4	979.5	659.8	620.3	39.47	16.818			
4,400.0	4,091.6	4,695.7	4,091.8	26.2	35.3	-0.57	1,611.4	979.5	659.8	620.2	39.60	16.660			
4,500.0	4,191.6	4,795.7	4,191.8	26.2	35.3	-0.57	1,611.4	979.5	659.8	620.0	39.74	16.601			
4,600.0	4,291.6	4,895.7	4,291.8	26.3	35.4	-0.57	1,611.4	979.5	659.8	619.9	39.89	16.541			
4,700.0	4,391.6	4,995.7	4,391.8	26.3	35.4	-0.57	1,611.4	979.5	659.8	619.8	40.03	16.481			
4,800.0	4,491.6	5,095.7	4,491.8	26.4	35.5	-0.57	1,611.4	979.5	659.8	619.6	40.18	16.421			
4,900.0	4,591.6	5,195.7	4,591.8	26.4	35.5	-0.57	1,611.4	979.5	659.8	619.5	40.33	16.359			
5,000.0	4,691.6	5,295.7	4,691.8	26.5	35.6	-0.57	1,611.4	979.5	659.8	619.3	40.48	16.297			

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 13C-13
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.6ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.6ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 13C-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 13A-13 - DD - Plan #3													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	4,791.6	5,395.7	4,791.8	26.5	35.6	-0.57	1,611.4	979.5	659.8	619.1	40.64	16.235		
5,200.0	4,891.6	5,495.7	4,891.8	26.6	35.7	-0.57	1,611.4	979.5	659.8	619.0	40.80	16.172		
5,300.0	4,991.6	5,595.7	4,991.8	26.7	35.7	-0.57	1,611.4	979.5	659.8	618.8	40.96	16.109		
5,400.0	5,091.6	5,695.7	5,091.8	26.7	35.8	-0.57	1,611.4	979.5	659.8	618.7	41.12	16.046		
5,500.0	5,191.6	5,795.7	5,191.8	26.8	35.8	-0.57	1,611.4	979.5	659.8	618.5	41.28	15.982		
5,600.0	5,291.6	5,895.7	5,291.8	26.8	35.8	-0.57	1,611.4	979.5	659.8	618.3	41.45	15.917		
5,700.0	5,391.6	5,995.7	5,391.8	26.9	35.9	-0.57	1,611.4	979.5	659.8	618.2	41.62	15.852		
5,800.0	5,491.6	6,095.7	5,491.8	27.0	36.0	-0.57	1,611.4	979.5	659.8	618.0	41.79	15.787		
5,900.0	5,591.6	6,195.7	5,591.8	27.0	36.0	-0.57	1,611.4	979.5	659.8	617.8	41.97	15.722		
6,000.0	5,691.6	6,295.7	5,691.8	27.1	36.1	-0.57	1,611.4	979.5	659.8	617.6	42.14	15.656		
6,100.0	5,791.6	6,395.7	5,791.8	27.2	36.1	-0.57	1,611.4	979.5	659.8	617.5	42.32	15.591		
6,200.0	5,891.6	6,495.7	5,891.8	27.2	36.2	-0.57	1,611.4	979.5	659.8	617.3	42.50	15.524		
6,218.4	5,910.0	6,514.1	5,910.2	27.2	36.2	-0.57	1,611.4	979.5	659.8	617.3	42.53	15.512		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 13C-13
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.6ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.6ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 13C-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	0.2	0.2	0.0	0.0	-101.09	-2.5	-12.6	12.8					
100.0	100.0	100.2	100.2	0.1	0.1	-101.09	-2.5	-12.6	12.8	12.6	0.25	50.267		
200.0	200.0	200.2	200.2	0.3	0.3	-101.09	-2.5	-12.6	12.8	12.2	0.60	21.211	CC, ES	
300.0	300.0	300.5	300.5	0.5	0.5	-150.99	-1.9	-12.2	14.5	13.6	0.96	15.224		
400.0	399.6	401.1	400.9	0.7	0.7	-153.01	2.3	-8.9	17.2	15.9	1.32	13.048		
500.0	498.8	501.9	501.1	1.0	0.9	-152.57	10.6	-2.4	20.3	18.5	1.72	11.799		
600.0	597.1	602.7	600.7	1.4	1.2	-150.62	23.2	7.3	23.7	21.5	2.18	10.850		
700.0	694.3	703.7	699.5	1.8	1.6	-147.81	39.9	20.3	27.5	24.7	2.76	9.964		
800.0	790.2	804.8	797.0	2.4	2.1	-144.55	60.8	36.5	31.8	28.3	3.50	9.083		
900.0	884.4	905.9	893.1	3.0	2.7	-141.14	85.7	55.8	36.6	32.2	4.44	8.243		
1,000.0	976.8	1,007.1	987.5	3.7	3.4	-137.73	114.6	78.2	42.0	36.3	5.60	7.488		
1,100.0	1,067.1	1,108.4	1,079.8	4.5	4.2	-134.46	147.4	103.6	47.9	40.9	7.00	6.844		
1,200.0	1,155.2	1,209.7	1,169.9	5.4	5.1	-130.95	184.1	132.1	54.1	45.4	8.65	6.252		
1,300.0	1,243.1	1,310.9	1,257.2	6.3	6.0	-124.25	224.5	163.4	58.2	47.4	10.80	5.388		
1,400.0	1,330.9	1,411.5	1,341.2	7.2	7.1	-113.95	268.2	197.2	61.3	47.9	13.44	4.562		
1,500.0	1,418.7	1,510.8	1,421.5	8.1	8.2	-100.97	314.3	233.0	65.7	49.6	16.08	4.085		
1,600.0	1,506.6	1,609.5	1,500.9	9.0	9.3	-89.49	360.8	269.0	73.1	54.9	18.13	4.030	SF	
1,700.0	1,594.4	1,708.3	1,580.2	9.9	10.4	-80.38	407.2	305.0	82.8	63.2	19.65	4.214		
1,800.0	1,682.2	1,807.0	1,659.6	10.8	11.4	-73.31	453.6	341.0	94.2	73.4	20.85	4.519		
1,900.0	1,770.1	1,905.8	1,739.0	11.6	12.5	-67.81	500.0	377.0	106.8	84.9	21.88	4.881		
2,000.0	1,857.9	2,004.5	1,818.4	12.5	13.6	-63.48	546.5	413.0	120.1	97.3	22.81	5.264		
2,100.0	1,945.7	2,103.3	1,897.7	13.4	14.7	-60.03	592.9	449.0	133.9	110.2	23.70	5.649		
2,200.0	2,033.6	2,202.0	1,977.1	14.3	15.8	-57.23	639.3	484.9	148.1	123.5	24.58	6.025		
2,300.0	2,121.4	2,300.7	2,056.5	15.2	16.9	-54.93	685.7	520.9	162.6	137.2	25.46	6.387		
2,400.0	2,209.2	2,399.5	2,135.9	16.1	18.0	-53.00	732.1	556.9	177.4	151.0	26.35	6.732		
2,500.0	2,297.1	2,498.2	2,215.2	17.0	19.1	-51.37	778.6	592.9	192.3	165.0	27.24	7.058		
2,600.0	2,384.9	2,597.0	2,294.6	17.9	20.2	-49.97	825.0	628.9	207.3	179.2	28.14	7.366		
2,700.0	2,472.7	2,695.7	2,374.0	18.8	21.3	-48.77	871.4	664.9	222.4	193.4	29.05	7.657		
2,800.0	2,560.6	2,794.5	2,453.4	19.7	22.4	-47.71	917.8	700.9	237.6	207.7	29.97	7.930		
2,900.0	2,648.4	2,893.2	2,532.7	20.6	23.5	-46.79	964.3	736.9	252.9	222.0	30.89	8.188		
3,000.0	2,736.2	2,998.6	2,618.0	21.5	24.7	-46.04	1,013.2	774.8	267.6	235.7	31.89	8.391		
3,100.0	2,824.4	3,110.4	2,711.7	22.4	25.8	-46.08	1,061.3	812.1	278.8	245.6	33.22	8.392		
3,200.0	2,914.7	3,222.9	2,809.5	23.1	26.8	-46.29	1,105.3	846.2	288.7	254.2	34.48	8.373		
3,300.0	3,007.1	3,336.0	2,910.9	23.8	27.6	-46.45	1,144.9	876.9	297.5	262.0	35.58	8.362		
3,400.0	3,101.4	3,449.7	3,015.7	24.4	28.4	-46.57	1,179.8	903.9	305.4	268.9	36.54	8.358		
3,500.0	3,197.3	3,563.9	3,123.3	24.9	29.0	-46.66	1,209.8	927.2	312.2	274.9	37.35	8.360		
3,600.0	3,294.5	3,678.5	3,233.4	25.3	29.6	-46.72	1,234.8	946.6	318.0	280.0	38.01	8.367		
3,700.0	3,392.9	3,793.4	3,345.6	25.6	30.0	-46.74	1,254.6	961.9	322.7	284.1	38.51	8.378		
3,800.0	3,492.0	3,908.7	3,459.4	25.8	30.3	-46.72	1,269.0	973.1	326.2	287.3	38.87	8.393		
3,900.0	3,591.7	4,024.1	3,574.3	25.9	30.5	-46.68	1,278.0	980.1	328.6	289.5	39.07	8.411		
4,000.0	3,691.6	4,139.7	3,689.8	26.0	30.5	-0.58	1,281.5	982.8	329.9	290.7	39.14	8.429		
4,100.0	3,791.6	4,241.8	3,791.8	26.0	30.6	-0.57	1,281.5	982.8	329.9	290.6	39.26	8.403		
4,200.0	3,891.6	4,341.8	3,891.8	26.1	30.6	-0.57	1,281.5	982.8	329.9	290.5	39.39	8.375		
4,300.0	3,991.6	4,441.8	3,991.8	26.1	30.7	-0.57	1,281.5	982.8	329.9	290.4	39.52	8.347		
4,400.0	4,091.6	4,541.8	4,091.8	26.2	30.7	-0.57	1,281.5	982.8	329.9	290.2	39.66	8.319		
4,500.0	4,191.6	4,641.8	4,191.8	26.2	30.8	-0.57	1,281.5	982.8	329.9	290.1	39.79	8.290		
4,600.0	4,291.6	4,741.8	4,291.8	26.3	30.8	-0.57	1,281.5	982.8	329.9	290.0	39.94	8.261		
4,700.0	4,391.6	4,841.8	4,391.8	26.3	30.9	-0.57	1,281.5	982.8	329.9	289.8	40.08	8.231		
4,800.0	4,491.6	4,941.8	4,491.8	26.4	30.9	-0.57	1,281.5	982.8	329.9	289.7	40.22	8.201		
4,900.0	4,591.6	5,041.8	4,591.8	26.4	31.0	-0.57	1,281.5	982.8	329.9	289.5	40.37	8.171		
5,000.0	4,691.6	5,141.8	4,691.8	26.5	31.0	-0.57	1,281.5	982.8	329.9	289.4	40.52	8.141		
5,100.0	4,791.6	5,241.8	4,791.8	26.5	31.1	-0.57	1,281.5	982.8	329.9	289.2	40.68	8.110		

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 13C-13
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.6ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.6ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 13C-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	4,891.6	5,341.8	4,891.8	26.6	31.1	-0.57	1,281.5	982.8	329.9	289.1	40.83	8.080		
5,300.0	4,991.6	5,441.8	4,991.8	26.7	31.2	-0.57	1,281.5	982.8	329.9	288.9	40.99	8.049		
5,400.0	5,091.6	5,541.8	5,091.8	26.7	31.2	-0.57	1,281.5	982.8	329.9	288.7	41.15	8.017		
5,500.0	5,191.6	5,641.8	5,191.8	26.8	31.3	-0.57	1,281.5	982.8	329.9	288.6	41.31	7.986		
5,600.0	5,291.6	5,741.8	5,291.8	26.8	31.3	-0.57	1,281.5	982.8	329.9	288.4	41.48	7.954		
5,700.0	5,391.6	5,841.8	5,391.8	26.9	31.4	-0.57	1,281.5	982.8	329.9	288.3	41.64	7.922		
5,800.0	5,491.6	5,941.8	5,491.8	27.0	31.4	-0.57	1,281.5	982.8	329.9	288.1	41.81	7.890		
5,900.0	5,591.6	6,041.8	5,591.8	27.0	31.5	-0.57	1,281.5	982.8	329.9	287.9	41.98	7.858		
6,000.0	5,691.6	6,141.8	5,691.8	27.1	31.6	-0.57	1,281.5	982.8	329.9	287.7	42.16	7.826		
6,100.0	5,791.6	6,241.8	5,791.8	27.2	31.6	-0.57	1,281.5	982.8	329.9	287.6	42.33	7.793		
6,200.0	5,891.6	6,341.8	5,891.8	27.2	31.7	-0.57	1,281.5	982.8	329.9	287.4	42.51	7.760		
6,218.4	5,910.0	6,360.2	5,910.2	27.2	31.7	-0.57	1,281.5	982.8	329.9	287.4	42.54	7.754		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 13C-13
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.6ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.6ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 13C-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				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	0.2	0.2	0.0	0.0	-152.44	-7.1	-3.7	8.0					
100.0	100.0	100.2	100.2	0.1	0.1	-152.44	-7.1	-3.7	8.0	7.7	0.25	31.455		
200.0	200.0	200.2	200.2	0.3	0.3	-152.44	-7.1	-3.7	8.0	7.4	0.60	13.257 CC, ES		
300.0	300.0	300.2	300.2	0.5	0.5	166.04	-7.1	-3.7	10.5	9.6	0.95	11.043		
400.0	399.6	400.6	400.6	0.7	0.7	168.77	-5.7	-1.5	15.8	14.5	1.30	12.114		
500.0	498.8	501.4	501.0	1.0	0.9	167.32	-1.4	5.3	21.3	19.7	1.66	12.839		
600.0	597.1	602.4	601.1	1.4	1.1	164.30	5.7	16.5	27.2	25.2	2.05	13.270		
700.0	694.3	703.5	700.6	1.8	1.5	160.62	15.6	32.2	33.5	31.0	2.51	13.357		
800.0	790.2	804.9	799.1	2.4	2.0	156.71	28.4	52.4	40.4	37.3	3.09	13.058		
900.0	884.4	906.5	896.4	3.0	2.5	152.79	44.0	77.0	47.8	44.0	3.85	12.429		
1,000.0	976.8	1,008.2	992.1	3.7	3.2	148.98	62.4	106.0	55.9	51.1	4.82	11.612		
1,100.0	1,067.1	1,110.1	1,086.0	4.5	3.9	145.34	83.5	139.3	64.8	58.8	6.02	10.760		
1,200.0	1,155.2	1,210.0	1,176.7	5.4	4.7	142.81	105.9	174.7	75.1	67.8	7.31	10.268		
1,300.0	1,243.1	1,309.3	1,266.8	6.3	5.4	141.22	128.2	210.0	86.0	77.4	8.62	9.980		
1,400.0	1,330.9	1,408.7	1,357.0	7.2	6.2	140.00	150.5	245.2	97.0	87.0	9.95	9.752		
1,500.0	1,418.7	1,508.1	1,447.2	8.1	7.0	139.02	172.9	280.5	108.0	96.7	11.29	9.570		
1,600.0	1,506.6	1,607.5	1,537.4	9.0	7.8	138.22	195.2	315.8	119.0	106.4	12.63	9.422		
1,700.0	1,594.4	1,706.8	1,627.6	9.9	8.6	137.56	217.6	351.1	130.1	116.1	13.99	9.300		
1,800.0	1,682.2	1,806.2	1,717.7	10.8	9.3	137.00	239.9	386.3	141.2	125.8	15.35	9.197		
1,900.0	1,770.1	1,905.6	1,807.9	11.6	10.1	136.53	262.2	421.6	152.2	135.5	16.71	9.109		
2,000.0	1,857.9	2,005.0	1,898.1	12.5	10.9	136.11	284.6	456.9	163.3	145.2	18.08	9.034		
2,100.0	1,945.7	2,104.3	1,988.3	13.4	11.7	135.75	306.9	492.2	174.4	155.0	19.45	8.969		
2,200.0	2,033.6	2,203.7	2,078.5	14.3	12.5	135.44	329.2	527.5	185.5	164.7	20.82	8.912		
2,300.0	2,121.4	2,303.1	2,168.6	15.2	13.3	135.16	351.6	562.7	196.6	174.4	22.19	8.861		
2,400.0	2,209.2	2,402.5	2,258.8	16.1	14.1	134.90	373.9	598.0	207.7	184.2	23.56	8.817		
2,500.0	2,297.1	2,501.9	2,349.0	17.0	14.9	134.68	396.3	633.3	218.8	193.9	24.93	8.776		
2,600.0	2,384.9	2,601.2	2,439.2	17.9	15.7	134.48	418.6	668.6	230.0	203.6	26.31	8.740		
2,700.0	2,472.7	2,700.6	2,529.4	18.8	16.5	134.29	440.9	703.9	241.1	213.4	27.68	8.708		
2,800.0	2,560.6	2,800.0	2,619.5	19.7	17.2	134.12	463.3	739.1	252.2	223.1	29.06	8.678		
2,900.0	2,648.4	2,899.4	2,709.7	20.6	18.0	133.97	485.6	774.4	263.3	232.9	30.44	8.651		
3,000.0	2,736.2	2,998.7	2,799.9	21.5	18.8	133.83	508.0	809.7	274.4	242.6	31.81	8.626		
3,100.0	2,824.4	3,097.1	2,889.2	22.4	19.6	133.72	530.1	844.6	285.1	251.9	33.19	8.588		
3,200.0	2,914.7	3,189.1	2,973.8	23.1	20.2	133.56	549.3	875.0	294.1	259.7	34.42	8.545		
3,300.0	3,007.1	3,281.0	3,060.0	23.8	20.8	133.45	566.4	902.0	302.2	266.7	35.50	8.514		
3,400.0	3,101.4	3,372.9	3,147.5	24.4	21.3	133.36	581.3	925.4	309.3	272.9	36.43	8.491		
3,500.0	3,197.3	3,464.7	3,236.3	24.9	21.7	133.31	593.8	945.3	315.4	278.2	37.21	8.476		
3,600.0	3,294.5	3,556.5	3,326.1	25.3	22.0	133.29	604.1	961.5	320.4	282.6	37.84	8.467		
3,700.0	3,392.9	3,648.2	3,416.6	25.6	22.3	133.29	612.0	974.0	324.4	286.1	38.32	8.464		
3,800.0	3,492.0	3,740.0	3,507.7	25.8	22.4	133.31	617.6	982.8	327.3	288.6	38.67	8.465		
3,900.0	3,591.7	3,831.7	3,599.2	25.9	22.5	133.35	620.8	988.0	329.1	290.3	38.86	8.469		
4,000.0	3,691.6	3,924.3	3,691.8	26.0	22.6	179.42	621.8	989.4	329.9	291.0	38.94	8.471		
4,100.0	3,791.6	4,024.3	3,791.8	26.0	22.6	179.42	621.8	989.4	329.9	290.8	39.07	8.444		
4,200.0	3,891.6	4,124.3	3,891.8	26.1	22.7	179.42	621.8	989.4	329.9	290.7	39.20	8.417		
4,300.0	3,991.6	4,224.3	3,991.8	26.1	22.8	179.42	621.8	989.4	329.9	290.6	39.33	8.389		
4,400.0	4,091.6	4,324.3	4,091.8	26.2	22.8	179.42	621.8	989.4	329.9	290.4	39.46	8.361		
4,500.0	4,191.6	4,424.3	4,191.8	26.2	22.9	179.42	621.8	989.4	329.9	290.3	39.59	8.332		
4,600.0	4,291.6	4,524.3	4,291.8	26.3	22.9	179.42	621.8	989.4	329.9	290.2	39.73	8.303		
4,700.0	4,391.6	4,624.3	4,391.8	26.3	23.0	179.42	621.8	989.4	329.9	290.0	39.87	8.274		
4,800.0	4,491.6	4,724.3	4,491.8	26.4	23.1	179.42	621.8	989.4	329.9	289.9	40.01	8.244		
4,900.0	4,591.6	4,824.3	4,591.8	26.4	23.1	179.42	621.8	989.4	329.9	289.7	40.16	8.215		
5,000.0	4,691.6	4,924.3	4,691.8	26.5	23.2	179.42	621.8	989.4	329.9	289.6	40.31	8.184		
5,100.0	4,791.6	5,024.3	4,791.8	26.5	23.2	179.42	621.8	989.4	329.9	289.4	40.46	8.154		

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 13C-13
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.6ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.6ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 13C-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													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)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
5,200.0	4,891.6	5,124.3	4,891.8	26.6	23.3	179.42	621.8	989.4	329.9	289.3	40.61	8.123		
5,300.0	4,991.6	5,224.3	4,991.8	26.7	23.4	179.42	621.8	989.4	329.9	289.1	40.77	8.092		
5,400.0	5,091.6	5,324.3	5,091.8	26.7	23.4	179.42	621.8	989.4	329.9	289.0	40.92	8.061		
5,500.0	5,191.6	5,424.3	5,191.8	26.8	23.5	179.42	621.8	989.4	329.9	288.8	41.08	8.030		
5,600.0	5,291.6	5,524.3	5,291.8	26.8	23.6	179.42	621.8	989.4	329.9	288.7	41.25	7.998		
5,700.0	5,391.6	5,624.3	5,391.8	26.9	23.7	179.42	621.8	989.4	329.9	288.5	41.41	7.966		
5,800.0	5,491.6	5,724.3	5,491.8	27.0	23.7	179.42	621.8	989.4	329.9	288.3	41.58	7.934		
5,900.0	5,591.6	5,824.3	5,591.8	27.0	23.8	179.42	621.8	989.4	329.9	288.1	41.75	7.902		
6,000.0	5,691.6	5,924.3	5,691.8	27.1	23.9	179.42	621.8	989.4	329.9	288.0	41.92	7.870		
6,100.0	5,791.6	6,024.3	5,791.8	27.2	24.0	179.42	621.8	989.4	329.9	287.8	42.09	7.837		
6,166.0	5,857.7	6,090.4	5,857.9	27.2	24.0	179.42	621.8	989.4	329.9	287.7	42.21	7.816		
6,200.0	5,891.6	6,122.5	5,890.0	27.2	24.0	179.42	621.8	989.4	329.9	287.6	42.27	7.805 SF		
6,218.4	5,910.0	6,122.5	5,890.0	27.2	24.0	179.42	621.8	989.4	330.5	288.2	42.28	7.817		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 13C-13
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.6ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.6ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 13C-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													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	0.2	0.2	0.0	0.0	-152.44	-14.2	-7.4	16.0						
100.0	100.0	100.2	100.2	0.1	0.1	-152.44	-14.2	-7.4	16.0	15.7	0.25	62.910			
200.0	200.0	200.2	200.2	0.3	0.3	-152.44	-14.2	-7.4	16.0	15.4	0.60	26.514	CC, ES		
300.0	300.0	300.2	300.2	0.5	0.5	164.08	-14.2	-7.4	18.5	17.5	0.95	19.426			
400.0	399.6	399.8	399.8	0.7	0.7	168.76	-14.2	-7.4	26.1	24.8	1.30	20.110			
500.0	498.8	500.6	500.5	1.0	0.8	170.16	-13.4	-4.9	36.9	35.2	1.65	22.377			
600.0	597.1	601.7	601.3	1.4	1.0	168.17	-11.1	2.8	48.6	46.6	2.02	24.107			
700.0	694.3	703.0	701.7	1.8	1.3	164.81	-7.2	15.5	61.4	59.0	2.44	25.214			
800.0	790.2	804.5	801.5	2.4	1.7	160.92	-1.7	33.4	75.5	72.6	2.96	25.543			
900.0	884.4	906.2	900.3	3.0	2.1	156.89	5.3	56.4	91.2	87.5	3.64	25.074			
1,000.0	976.8	1,007.8	997.6	3.7	2.6	152.93	13.9	84.3	108.5	104.0	4.52	24.019			
1,100.0	1,067.1	1,109.4	1,093.2	4.5	3.3	149.15	23.9	117.1	127.6	122.0	5.62	22.698			
1,200.0	1,155.2	1,208.7	1,185.1	5.4	4.0	145.94	35.0	153.3	148.5	141.6	6.89	21.548			
1,300.0	1,243.1	1,306.2	1,275.0	6.3	4.6	143.67	46.0	189.3	170.0	161.8	8.21	20.717			
1,400.0	1,330.9	1,403.7	1,364.9	7.2	5.3	141.91	57.0	225.3	191.7	182.1	9.54	20.080			
1,500.0	1,418.7	1,501.2	1,454.8	8.1	6.0	140.50	68.1	261.3	213.5	202.6	10.90	19.584			
1,600.0	1,506.6	1,598.6	1,544.7	9.0	6.8	139.36	79.1	297.3	235.4	223.1	12.27	19.188			
1,700.0	1,594.4	1,696.1	1,634.6	9.9	7.5	138.41	90.1	333.3	257.3	243.7	13.64	18.867			
1,800.0	1,682.2	1,793.6	1,724.5	10.8	8.2	137.61	101.1	369.3	279.4	264.4	15.02	18.603			
1,900.0	1,770.1	1,891.1	1,814.4	11.6	8.9	136.93	112.1	405.3	301.4	285.0	16.40	18.381			
2,000.0	1,857.9	1,988.5	1,904.3	12.5	9.6	136.34	123.1	441.3	323.6	305.8	17.78	18.193			
2,100.0	1,945.7	2,086.0	1,994.2	13.4	10.3	135.82	134.2	477.3	345.7	326.5	19.17	18.032			
2,200.0	2,033.6	2,183.5	2,084.1	14.3	11.0	135.37	145.2	513.3	367.9	347.3	20.56	17.892			
2,300.0	2,121.4	2,281.0	2,174.1	15.2	11.8	134.97	156.2	549.3	390.0	368.1	21.95	17.769			
2,400.0	2,209.2	2,378.4	2,264.0	16.1	12.5	134.61	167.2	585.3	412.2	388.9	23.34	17.661			
2,500.0	2,297.1	2,475.9	2,353.9	17.0	13.2	134.29	178.2	621.3	434.5	409.7	24.73	17.566			
2,600.0	2,384.9	2,573.4	2,443.8	17.9	13.9	134.00	189.3	657.3	456.7	430.6	26.13	17.480			
2,700.0	2,472.7	2,670.8	2,533.7	18.8	14.6	133.74	200.3	693.3	478.9	451.4	27.52	17.403			
2,800.0	2,560.6	2,768.3	2,623.6	19.7	15.3	133.50	211.3	729.3	501.2	472.3	28.91	17.333			
2,900.0	2,648.4	2,865.8	2,713.5	20.6	16.1	133.28	222.3	765.3	523.4	493.1	30.31	17.270			
3,000.0	2,736.2	2,963.3	2,803.4	21.5	16.8	133.08	233.3	801.3	545.7	514.0	31.70	17.213			
3,100.0	2,824.4	3,060.8	2,893.4	22.4	17.5	133.09	244.4	837.4	567.4	534.4	33.08	17.152			
3,200.0	2,914.7	3,153.7	2,979.3	23.1	18.1	133.06	254.6	870.9	586.4	552.0	34.37	17.059			
3,300.0	3,007.1	3,243.7	3,064.1	23.8	18.7	133.04	263.5	899.9	603.2	567.7	35.50	16.993			
3,400.0	3,101.4	3,334.0	3,150.4	24.4	19.1	133.05	271.2	925.1	617.8	581.4	36.46	16.944			
3,500.0	3,197.3	3,424.5	3,238.2	24.9	19.5	133.08	277.7	946.5	630.3	593.1	37.28	16.910			
3,600.0	3,294.5	3,515.3	3,327.1	25.3	19.8	133.12	283.1	963.9	640.7	602.8	37.94	16.889			
3,700.0	3,392.9	3,606.2	3,416.9	25.6	20.1	133.18	287.1	977.2	648.8	610.4	38.44	16.879			
3,800.0	3,492.0	3,700.0	3,510.2	25.8	20.2	133.25	290.0	986.7	654.7	616.0	38.79	16.878			
3,900.0	3,591.7	3,788.3	3,598.4	25.9	20.3	133.33	291.5	991.6	658.4	619.4	38.98	16.890			
4,000.0	3,691.6	3,881.8	3,691.8	26.0	20.4	179.43	291.9	992.7	659.8	620.7	39.07	16.889			
4,100.0	3,791.6	3,981.8	3,791.8	26.0	20.5	179.43	291.9	992.7	659.8	620.6	39.19	16.835			
4,200.0	3,891.6	4,081.8	3,891.8	26.1	20.5	179.43	291.9	992.7	659.8	620.5	39.32	16.781			
4,300.0	3,991.6	4,181.8	3,991.8	26.1	20.6	179.43	291.9	992.7	659.8	620.3	39.45	16.727			
4,400.0	4,091.6	4,281.8	4,091.8	26.2	20.6	179.43	291.9	992.7	659.8	620.2	39.58	16.671			
4,500.0	4,191.6	4,381.8	4,191.8	26.2	20.7	179.43	291.9	992.7	659.8	620.1	39.71	16.615			
4,600.0	4,291.6	4,481.8	4,291.8	26.3	20.8	179.43	291.9	992.7	659.8	619.9	39.85	16.558			
4,700.0	4,391.6	4,581.8	4,391.8	26.3	20.8	179.43	291.9	992.7	659.8	619.8	39.99	16.500			
4,800.0	4,491.6	4,681.8	4,491.8	26.4	20.9	179.43	291.9	992.7	659.8	619.7	40.13	16.442			
4,900.0	4,591.6	4,781.8	4,591.8	26.4	21.0	179.43	291.9	992.7	659.8	619.5	40.27	16.383			
5,000.0	4,691.6	4,881.8	4,691.8	26.5	21.0	179.43	291.9	992.7	659.8	619.4	40.42	16.323			
5,100.0	4,791.6	4,981.8	4,791.8	26.5	21.1	179.43	291.9	992.7	659.8	619.2	40.57	16.263			

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 13C-13
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.6ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.6ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 13C-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	4,891.6	5,081.8	4,891.8	26.6	21.2	179.43	291.9	992.7	659.8	619.1	40.72	16.202		
5,300.0	4,991.6	5,181.8	4,991.8	26.7	21.3	179.43	291.9	992.7	659.8	618.9	40.88	16.141		
5,400.0	5,091.6	5,281.8	5,091.8	26.7	21.3	179.43	291.9	992.7	659.8	618.8	41.03	16.080		
5,500.0	5,191.6	5,381.8	5,191.8	26.8	21.4	179.43	291.9	992.7	659.8	618.6	41.19	16.018		
5,600.0	5,291.6	5,481.8	5,291.8	26.8	21.5	179.43	291.9	992.7	659.8	618.4	41.35	15.955		
5,700.0	5,391.6	5,581.8	5,391.8	26.9	21.6	179.43	291.9	992.7	659.8	618.3	41.52	15.892		
5,800.0	5,491.6	5,681.8	5,491.8	27.0	21.6	179.43	291.9	992.7	659.8	618.1	41.68	15.829		
5,900.0	5,591.6	5,781.8	5,591.8	27.0	21.7	179.43	291.9	992.7	659.8	617.9	41.85	15.765		
6,000.0	5,691.6	5,881.8	5,691.8	27.1	21.8	179.43	291.9	992.7	659.8	617.8	42.02	15.701		
6,100.0	5,791.6	5,981.8	5,791.8	27.2	21.9	179.43	291.9	992.7	659.8	617.6	42.19	15.637		
6,157.4	5,849.0	6,039.2	5,849.2	27.2	21.9	179.43	291.9	992.7	659.8	617.5	42.29	15.600		
6,200.0	5,891.6	6,060.0	5,870.0	27.2	21.9	179.43	291.9	992.7	660.2	617.8	42.35	15.588 SF		
6,218.4	5,910.0	6,060.0	5,870.0	27.2	21.9	179.43	291.9	992.7	661.0	618.6	42.37	15.603		

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 13C-13
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.6ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.6ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 13C-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				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	0.2	0.2	0.0	0.0	-152.44	-21.3	-11.1	24.0					
100.0	100.0	100.2	100.2	0.1	0.1	-152.44	-21.3	-11.1	24.0	23.7	0.25	94.284		
200.0	200.0	200.2	200.2	0.3	0.3	-152.44	-21.3	-11.1	24.0	23.4	0.60	39.753 CC, ES		
300.0	300.0	300.2	300.2	0.5	0.5	163.31	-21.3	-11.1	26.5	25.5	0.95	27.808		
400.0	399.6	399.8	399.8	0.7	0.7	167.05	-21.3	-11.1	34.1	32.8	1.30	26.206		
500.0	498.8	499.0	499.0	1.0	0.8	170.56	-21.3	-11.1	46.9	45.2	1.64	28.526		
600.0	597.1	598.3	598.3	1.4	1.0	172.72	-21.3	-10.5	64.6	62.6	1.98	32.558		
700.0	694.3	698.6	698.5	1.8	1.2	171.89	-21.4	-5.3	84.6	82.3	2.33	36.269		
800.0	790.2	799.0	798.3	2.4	1.4	169.43	-21.5	5.1	106.8	104.0	2.72	39.205		
900.0	884.4	899.3	897.3	3.0	1.7	166.27	-21.8	20.7	131.2	128.0	3.20	41.054		
1,000.0	976.8	999.1	995.0	3.7	2.0	162.85	-22.1	41.5	158.2	154.4	3.80	41.618		
1,100.0	1,067.1	1,098.4	1,090.9	4.5	2.5	159.40	-22.6	67.1	188.0	183.4	4.58	41.030		
1,200.0	1,155.2	1,197.0	1,184.7	5.4	3.0	156.17	-23.1	97.4	220.1	214.6	5.57	39.546		
1,300.0	1,243.1	1,295.7	1,276.9	6.3	3.7	152.87	-23.7	132.6	251.6	244.8	6.78	37.076		
1,400.0	1,330.9	1,391.7	1,365.0	7.2	4.4	149.56	-24.3	170.7	282.3	274.1	8.15	34.648		
1,500.0	1,418.7	1,485.7	1,451.1	8.1	5.0	146.87	-24.9	208.4	313.5	304.0	9.54	32.861		
1,600.0	1,506.6	1,579.7	1,537.3	9.0	5.7	144.66	-25.5	246.1	345.3	334.4	10.96	31.513		
1,700.0	1,594.4	1,673.8	1,623.4	9.9	6.5	142.82	-26.2	283.8	377.5	365.1	12.39	30.474		
1,800.0	1,682.2	1,767.8	1,709.5	10.8	7.2	141.26	-26.8	321.5	410.0	396.2	13.83	29.655		
1,900.0	1,770.1	1,861.8	1,795.7	11.6	7.9	139.94	-27.4	359.2	442.7	427.4	15.27	28.997		
2,000.0	1,857.9	1,955.8	1,881.8	12.5	8.6	138.79	-28.0	396.9	475.6	458.9	16.71	28.460		
2,100.0	1,945.7	2,049.9	1,968.0	13.4	9.3	137.79	-28.7	434.6	508.6	490.5	18.16	28.015		
2,200.0	2,033.6	2,143.9	2,054.1	14.3	10.0	136.92	-29.3	472.3	541.8	522.2	19.60	27.640		
2,300.0	2,121.4	2,237.9	2,140.2	15.2	10.7	136.14	-29.9	510.0	575.1	554.0	21.05	27.322		
2,400.0	2,209.2	2,332.0	2,226.4	16.1	11.5	135.45	-30.5	547.7	608.4	585.9	22.49	27.048		
2,500.0	2,297.1	2,426.0	2,312.5	17.0	12.2	134.83	-31.2	585.4	641.9	617.9	23.94	26.811		
2,600.0	2,384.9	2,520.0	2,398.6	17.9	12.9	134.27	-31.8	623.2	675.3	650.0	25.39	26.604		
2,700.0	2,472.7	2,614.1	2,484.8	18.8	13.6	133.76	-32.4	660.9	708.9	682.0	26.83	26.421		
2,800.0	2,560.6	2,708.1	2,570.9	19.7	14.4	133.30	-33.1	698.6	742.5	714.2	28.27	26.259		
2,900.0	2,648.4	2,802.1	2,657.1	20.6	15.1	132.88	-33.7	736.3	776.1	746.4	29.72	26.114		
3,000.0	2,736.2	2,896.2	2,743.2	21.5	15.8	132.50	-34.3	774.0	809.7	778.6	31.16	25.984		
3,100.0	2,824.4	2,990.3	2,829.5	22.4	16.5	132.51	-34.9	811.7	842.9	810.3	32.60	25.860		
3,200.0	2,914.7	3,085.2	2,916.5	23.1	17.2	132.64	-35.6	849.5	873.2	839.2	33.99	25.687		
3,300.0	3,007.1	3,181.1	3,005.9	23.8	17.9	132.71	-36.1	884.1	900.2	864.9	35.23	25.548		
3,400.0	3,101.4	3,278.4	3,098.4	24.4	18.4	132.80	-36.6	914.5	923.7	887.4	36.31	25.437		
3,500.0	3,197.3	3,377.0	3,193.4	24.9	18.8	132.89	-37.1	940.6	943.8	906.6	37.23	25.351		
3,600.0	3,294.5	3,476.5	3,290.6	25.3	19.2	132.99	-37.4	961.8	960.3	922.4	37.97	25.290		
3,700.0	3,392.9	3,576.9	3,389.6	25.6	19.5	133.09	-37.7	978.1	973.2	934.7	38.54	25.249		
3,800.0	3,492.0	3,677.8	3,489.9	25.8	19.7	133.20	-37.9	989.2	982.4	943.5	38.94	25.229		
3,900.0	3,591.7	3,779.1	3,591.0	25.9	19.8	133.32	-38.0	995.0	987.9	948.8	39.16	25.225		
4,000.0	3,691.6	3,879.9	3,691.8	26.0	19.9	179.43	-38.0	995.9	989.7	950.4	39.27	25.205		
4,100.0	3,791.6	3,979.9	3,791.8	26.0	19.9	179.43	-38.0	995.9	989.7	950.3	39.39	25.127		
4,200.0	3,891.6	4,079.9	3,891.8	26.1	20.0	179.43	-38.0	995.9	989.7	950.2	39.51	25.047		
4,300.0	3,991.6	4,179.9	3,991.8	26.1	20.0	179.43	-38.0	995.9	989.7	950.0	39.64	24.966		
4,400.0	4,091.6	4,279.9	4,091.8	26.2	20.1	179.43	-38.0	995.9	989.7	949.9	39.77	24.884		
4,500.0	4,191.6	4,379.9	4,191.8	26.2	20.2	179.43	-38.0	995.9	989.7	949.8	39.91	24.800		
4,600.0	4,291.6	4,479.9	4,291.8	26.3	20.2	179.43	-38.0	995.9	989.7	949.6	40.04	24.716		
4,700.0	4,391.6	4,579.9	4,391.8	26.3	20.3	179.43	-38.0	995.9	989.7	949.5	40.18	24.631		
4,800.0	4,491.6	4,679.9	4,491.8	26.4	20.4	179.43	-38.0	995.9	989.7	949.4	40.32	24.545		
4,900.0	4,591.6	4,779.9	4,591.8	26.4	20.4	179.43	-38.0	995.9	989.7	949.2	40.47	24.457		
5,000.0	4,691.6	4,879.9	4,691.8	26.5	20.5	179.43	-38.0	995.9	989.7	949.1	40.61	24.369		
5,100.0	4,791.6	4,979.9	4,791.8	26.5	20.6	179.43	-38.0	995.9	989.7	948.9	40.76	24.281		

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 13C-13
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.6ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.6ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 13C-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													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		
5,200.0	4,891.6	5,079.9	4,891.8	26.6	20.7	179.43	-38.0	995.9	989.7	948.8	40.91	24.191			
5,300.0	4,991.6	5,179.9	4,991.8	26.7	20.7	179.43	-38.0	995.9	989.7	948.6	41.06	24.100			
5,400.0	5,091.6	5,279.9	5,091.8	26.7	20.8	179.43	-38.0	995.9	989.7	948.5	41.22	24.009			
5,500.0	5,191.6	5,379.9	5,191.8	26.8	20.9	179.43	-38.0	995.9	989.7	948.3	41.38	23.917			
5,600.0	5,291.6	5,479.9	5,291.8	26.8	21.0	179.43	-38.0	995.9	989.7	948.1	41.54	23.825			
5,700.0	5,391.6	5,579.9	5,391.8	26.9	21.0	179.43	-38.0	995.9	989.7	948.0	41.70	23.732			
5,800.0	5,491.6	5,679.9	5,491.8	27.0	21.1	179.43	-38.0	995.9	989.7	947.8	41.87	23.638			
5,900.0	5,591.6	5,779.9	5,591.8	27.0	21.2	179.43	-38.0	995.9	989.7	947.6	42.04	23.544			
6,000.0	5,691.6	5,879.9	5,691.8	27.1	21.3	179.43	-38.0	995.9	989.7	947.5	42.20	23.450			
6,100.0	5,791.6	5,979.9	5,791.8	27.2	21.4	179.43	-38.0	995.9	989.7	947.3	42.38	23.355			
6,151.1	5,842.7	6,031.0	5,842.9	27.2	21.4	179.43	-38.0	995.9	989.7	947.2	42.47	23.306			
6,200.0	5,891.6	6,048.1	5,860.0	27.2	21.4	179.43	-38.0	995.9	990.2	947.7	42.52	23.286 SF			
6,218.4	5,910.0	6,048.1	5,860.0	27.2	21.4	179.43	-38.0	995.9	991.0	948.4	42.54	23.295			

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 13C-13
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.6ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.6ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 13C-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				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	0.2	0.2	0.0	0.0	-152.09	-27.8	-14.7	31.5					
100.0	100.0	100.2	100.2	0.1	0.1	-152.09	-27.8	-14.7	31.5	31.2	0.25	123.714		
200.0	200.0	200.2	200.2	0.3	0.3	-152.09	-27.8	-14.7	31.5	30.9	0.60	52.182 CC, ES		
300.0	300.0	300.2	300.2	0.5	0.5	163.24	-27.8	-14.7	34.0	33.0	0.95	35.688		
400.0	399.6	399.8	399.8	0.7	0.7	166.30	-27.8	-14.7	41.6	40.3	1.30	31.958		
500.0	498.8	499.0	499.0	1.0	0.8	169.49	-27.8	-14.7	54.3	52.7	1.65	33.033		
600.0	597.1	598.4	598.4	1.4	1.0	170.12	-28.7	-12.3	71.6	69.6	1.99	35.904		
700.0	694.3	697.4	697.0	1.8	1.2	167.89	-31.2	-5.1	92.4	90.0	2.37	38.933		
800.0	790.2	795.4	794.2	2.4	1.4	164.52	-35.3	6.8	117.1	114.3	2.83	41.416		
900.0	884.4	892.0	889.3	3.0	1.8	160.85	-40.9	23.2	146.0	142.6	3.40	42.942		
1,000.0	976.8	987.0	981.7	3.7	2.1	157.24	-48.0	43.6	179.2	175.1	4.12	43.511		
1,100.0	1,067.1	1,079.9	1,071.0	4.5	2.6	153.85	-56.3	67.8	217.0	212.0	5.00	43.406		
1,200.0	1,155.2	1,170.6	1,156.9	5.4	3.1	150.98	-65.9	95.4	258.7	252.7	6.03	42.878		
1,300.0	1,243.1	1,260.2	1,240.3	6.3	3.7	148.34	-76.6	126.4	301.4	294.2	7.22	41.730		
1,400.0	1,330.9	1,348.7	1,321.0	7.2	4.4	145.62	-88.4	160.6	344.7	336.2	8.52	40.457		
1,500.0	1,418.7	1,437.4	1,401.3	8.1	5.1	143.22	-100.7	196.2	388.7	378.8	9.87	39.369		
1,600.0	1,506.6	1,526.1	1,481.6	9.0	5.8	141.30	-113.0	231.9	433.2	421.9	11.23	38.568		
1,700.0	1,594.4	1,614.8	1,561.9	9.9	6.5	139.74	-125.3	267.6	477.9	465.3	12.59	37.958		
1,800.0	1,682.2	1,703.5	1,642.2	10.8	7.2	138.44	-137.6	303.3	523.0	509.0	13.95	37.484		
1,900.0	1,770.1	1,792.2	1,722.4	11.6	7.9	137.35	-149.9	338.9	568.1	552.8	15.31	37.107		
2,000.0	1,857.9	1,880.9	1,802.7	12.5	8.6	136.41	-162.2	374.6	613.5	596.8	16.67	36.801		
2,100.0	1,945.7	1,969.7	1,883.0	13.4	9.3	135.60	-174.6	410.3	658.9	640.9	18.03	36.550		
2,200.0	2,033.6	2,058.4	1,963.3	14.3	10.1	134.90	-186.9	446.0	704.5	685.1	19.39	36.341		
2,300.0	2,121.4	2,147.1	2,043.6	15.2	10.8	134.28	-199.2	481.6	750.1	729.4	20.74	36.164		
2,400.0	2,209.2	2,235.8	2,123.9	16.1	11.5	133.73	-211.5	517.3	795.8	773.7	22.10	36.014		
2,500.0	2,297.1	2,324.5	2,204.2	17.0	12.2	133.24	-223.8	553.0	841.5	818.1	23.45	35.884		
2,600.0	2,384.9	2,413.2	2,284.4	17.9	12.9	132.81	-236.1	588.7	887.3	862.5	24.80	35.771		
2,700.0	2,472.7	2,501.9	2,364.7	18.8	13.7	132.41	-248.4	624.3	933.1	906.9	26.16	35.673		
2,800.0	2,560.6	2,590.7	2,445.0	19.7	14.4	132.05	-260.8	660.0	978.9	951.4	27.51	35.585		
2,900.0	2,648.4	2,679.4	2,525.3	20.6	15.1	131.72	-273.1	695.7	1,024.8	995.9	28.86	35.508		
3,000.0	2,736.2	2,768.1	2,605.6	21.5	15.8	131.42	-285.4	731.4	1,070.7	1,040.5	30.21	35.439		
3,100.0	2,824.4	2,857.0	2,686.0	22.4	16.6	131.73	-297.7	767.1	1,116.2	1,084.6	31.58	35.349		
3,200.0	2,914.7	2,947.0	2,767.5	23.1	17.3	132.31	-310.2	803.3	1,158.9	1,126.0	32.92	35.203		
3,300.0	3,007.1	3,045.2	2,856.6	23.8	18.1	132.58	-323.8	842.5	1,198.4	1,164.1	34.27	34.968		
3,400.0	3,101.4	3,161.4	2,964.0	24.4	18.8	132.69	-338.1	884.2	1,233.4	1,197.8	35.59	34.656		
3,500.0	3,197.3	3,281.5	3,077.7	24.9	19.5	132.80	-350.8	920.7	1,263.3	1,226.6	36.74	34.389		
3,600.0	3,294.5	3,405.3	3,197.2	25.3	20.1	132.91	-361.3	951.2	1,287.9	1,250.2	37.69	34.175		
3,700.0	3,392.9	3,531.9	3,321.3	25.6	20.5	133.03	-369.4	974.8	1,306.9	1,268.5	38.41	34.023		
3,800.0	3,492.0	3,660.7	3,448.9	25.8	20.8	133.16	-374.9	990.7	1,320.2	1,281.2	38.92	33.919		
3,900.0	3,591.7	3,790.7	3,578.7	25.9	20.9	133.31	-377.6	998.5	1,327.6	1,288.4	39.21	33.859		
4,000.0	3,691.6	3,903.9	3,691.8	26.0	21.0	179.43	-377.9	999.3	1,329.6	1,290.2	39.33	33.804		
4,100.0	3,791.6	4,003.9	3,791.8	26.0	21.1	179.43	-377.9	999.3	1,329.6	1,290.1	39.46	33.699		
4,200.0	3,891.6	4,103.9	3,891.8	26.1	21.1	179.43	-377.9	999.3	1,329.6	1,290.0	39.58	33.592		
4,300.0	3,991.6	4,203.9	3,991.8	26.1	21.2	179.43	-377.9	999.3	1,329.6	1,289.9	39.71	33.483		
4,400.0	4,091.6	4,303.9	4,091.8	26.2	21.2	179.43	-377.9	999.3	1,329.6	1,289.7	39.84	33.373		
4,500.0	4,191.6	4,403.9	4,191.8	26.2	21.3	179.43	-377.9	999.3	1,329.6	1,289.6	39.97	33.261		
4,600.0	4,291.6	4,503.9	4,291.8	26.3	21.4	179.43	-377.9	999.3	1,329.6	1,289.5	40.11	33.148		
4,700.0	4,391.6	4,603.9	4,391.8	26.3	21.4	179.43	-377.9	999.3	1,329.6	1,289.3	40.25	33.034		
4,800.0	4,491.6	4,703.9	4,491.8	26.4	21.5	179.43	-377.9	999.3	1,329.6	1,289.2	40.39	32.919		
4,900.0	4,591.6	4,803.9	4,591.8	26.4	21.6	179.43	-377.9	999.3	1,329.6	1,289.0	40.53	32.802		
5,000.0	4,691.6	4,903.9	4,691.8	26.5	21.6	179.43	-377.9	999.3	1,329.6	1,288.9	40.68	32.684		
5,100.0	4,791.6	5,003.9	4,791.8	26.5	21.7	179.43	-377.9	999.3	1,329.6	1,288.7	40.83	32.565		

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 13C-13
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.6ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.6ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 13C-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													Offset Site Error:	0.0 ft		
Survey Program: 0-MWD													S14-T7S-R96W - Nolte 14C-13 - DD - Plan #3		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)						
5,200.0	4,891.6	5,103.9	4,891.8	26.6	21.8	179.43	-377.9	999.3	1,329.6	1,288.6	40.98	32.444				
5,300.0	4,991.6	5,203.9	4,991.8	26.7	21.8	179.43	-377.9	999.3	1,329.6	1,288.4	41.13	32.323				
5,400.0	5,091.6	5,303.9	5,091.8	26.7	21.9	179.43	-377.9	999.3	1,329.6	1,288.3	41.29	32.201				
5,500.0	5,191.6	5,403.9	5,191.8	26.8	22.0	179.43	-377.9	999.3	1,329.6	1,288.1	41.45	32.078				
5,600.0	5,291.6	5,503.9	5,291.8	26.8	22.1	179.43	-377.9	999.3	1,329.6	1,288.0	41.61	31.954				
5,700.0	5,391.6	5,603.9	5,391.8	26.9	22.1	179.43	-377.9	999.3	1,329.6	1,287.8	41.77	31.830				
5,800.0	5,491.6	5,703.9	5,491.8	27.0	22.2	179.43	-377.9	999.3	1,329.6	1,287.6	41.94	31.704				
5,900.0	5,591.6	5,803.9	5,591.8	27.0	22.3	179.43	-377.9	999.3	1,329.6	1,287.5	42.10	31.578				
6,000.0	5,691.6	5,903.9	5,691.8	27.1	22.4	179.43	-377.9	999.3	1,329.6	1,287.3	42.27	31.451				
6,100.0	5,791.6	6,003.9	5,791.8	27.2	22.5	179.43	-377.9	999.3	1,329.6	1,287.1	42.45	31.324				
6,130.8	5,822.4	6,034.6	5,822.6	27.2	22.5	179.43	-377.9	999.3	1,329.6	1,287.1	42.50	31.285				
6,200.0	5,891.6	6,052.0	5,840.0	27.2	22.5	179.43	-377.9	999.3	1,330.6	1,288.0	42.58	31.252 SF				
6,218.4	5,910.0	6,052.0	5,840.0	27.2	22.5	179.43	-377.9	999.3	1,331.4	1,288.8	42.59	31.260				

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 13C-13
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.6ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.6ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 13C-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													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	0.2	0.2	0.0	0.0	-152.48	-35.5	-18.5	40.0						
100.0	100.0	100.2	100.2	0.1	0.1	-152.48	-35.5	-18.5	40.0	39.7	0.25	156.900			
200.0	200.0	200.2	200.2	0.3	0.3	-152.48	-35.5	-18.5	40.0	39.4	0.60	66.207 CC, ES			
300.0	300.0	300.2	300.2	0.5	0.5	162.60	-35.5	-18.5	42.5	41.5	0.95	44.568			
400.0	399.6	399.8	399.8	0.7	0.7	165.23	-35.5	-18.5	50.0	48.7	1.30	38.423			
500.0	498.8	499.0	498.9	1.0	0.8	165.82	-36.9	-16.3	62.7	61.1	1.66	37.886 SF			
600.0	597.1	597.2	596.8	1.4	1.0	163.36	-41.0	-9.9	80.6	78.5	2.04	39.411			
700.0	694.3	693.9	692.7	1.8	1.3	159.78	-47.7	0.5	103.9	101.4	2.51	41.400			
800.0	790.2	788.5	785.8	2.4	1.6	156.08	-56.9	14.6	132.8	129.7	3.08	43.130			
900.0	884.4	880.6	875.6	3.0	2.0	152.66	-68.2	32.0	167.4	163.6	3.77	44.415			
1,000.0	976.8	969.8	961.4	3.7	2.4	149.60	-81.4	52.3	207.6	203.0	4.58	45.332			
1,100.0	1,067.1	1,055.7	1,042.9	4.5	2.9	146.87	-96.1	75.0	253.2	247.7	5.50	46.012			
1,200.0	1,155.2	1,138.2	1,120.0	5.4	3.5	144.82	-112.1	99.7	303.5	297.0	6.52	46.544			
1,300.0	1,243.1	1,218.7	1,193.8	6.3	4.1	143.17	-129.5	126.5	355.6	348.0	7.62	46.648			
1,400.0	1,330.9	1,300.0	1,267.1	7.2	4.7	141.37	-148.7	156.2	409.2	400.3	8.82	46.401			
1,500.0	1,418.7	1,376.0	1,334.2	8.1	5.4	139.68	-168.1	186.0	464.1	454.1	10.03	46.287			
1,600.0	1,506.6	1,458.5	1,406.9	9.0	6.1	138.15	-189.4	218.8	519.6	508.3	11.30	46.001			
1,700.0	1,594.4	1,540.9	1,479.5	9.9	6.8	136.91	-210.6	251.5	575.3	562.7	12.56	45.794			
1,800.0	1,682.2	1,623.4	1,552.1	10.8	7.6	135.88	-231.9	284.3	631.1	617.3	13.83	45.640			
1,900.0	1,770.1	1,705.9	1,624.8	11.6	8.3	135.02	-253.1	317.1	687.1	672.0	15.09	45.523			
2,000.0	1,857.9	1,788.4	1,697.4	12.5	9.0	134.29	-274.4	349.8	743.1	726.8	16.36	45.431			
2,100.0	1,945.7	1,870.8	1,770.0	13.4	9.8	133.66	-295.6	382.6	799.2	781.6	17.62	45.358			
2,200.0	2,033.6	1,953.3	1,842.7	14.3	10.5	133.12	-316.9	415.4	855.4	836.5	18.88	45.301			
2,300.0	2,121.4	2,035.8	1,915.3	15.2	11.3	132.64	-338.2	448.1	911.6	891.5	20.14	45.254			
2,400.0	2,209.2	2,118.2	1,987.9	16.1	12.0	132.21	-359.4	480.9	967.9	946.5	21.41	45.217			
2,500.0	2,297.1	2,200.7	2,060.6	17.0	12.7	131.83	-380.7	513.7	1,024.2	1,001.5	22.67	45.185			
2,600.0	2,384.9	2,283.2	2,133.2	17.9	13.5	131.50	-401.9	546.4	1,080.5	1,056.6	23.93	45.159			
2,700.0	2,472.7	2,365.6	2,205.8	18.8	14.2	131.19	-423.2	579.2	1,136.9	1,111.7	25.19	45.138			
2,800.0	2,560.6	2,448.1	2,278.5	19.7	15.0	130.91	-444.4	612.0	1,193.2	1,166.8	26.45	45.120			
2,900.0	2,648.4	2,530.6	2,351.1	20.6	15.7	130.66	-465.7	644.7	1,249.6	1,221.9	27.71	45.104			
3,000.0	2,736.2	2,613.0	2,423.7	21.5	16.5	130.43	-486.9	677.5	1,306.0	1,277.1	28.96	45.091			

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 13C-13
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.6ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.6ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 13C-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													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	0.2	0.2	0.0	0.0	-120.44	-9.6	-16.3	18.9						
100.0	100.0	100.2	100.2	0.1	0.1	-120.44	-9.6	-16.3	18.9	18.6	0.26	74.002			
200.0	200.0	200.2	200.2	0.3	0.3	-120.44	-9.6	-16.3	18.9	18.3	0.60	31.240	CC, ES		
300.0	300.0	300.2	300.2	0.5	0.5	-168.08	-9.6	-16.3	21.4	20.5	0.95	22.488			
400.0	399.6	400.4	400.3	0.7	0.7	-166.34	-7.0	-16.8	28.2	26.9	1.31	21.537	SF		
500.0	498.8	500.2	499.9	1.0	0.9	-159.76	0.7	-18.3	38.5	36.8	1.71	22.569			
600.0	597.1	599.4	598.2	1.4	1.1	-152.63	13.4	-20.8	53.1	50.9	2.20	24.108			
700.0	694.3	697.5	694.6	1.8	1.5	-146.51	30.9	-24.2	72.4	69.6	2.84	25.485			
800.0	790.2	794.2	788.7	2.4	1.9	-141.62	52.8	-28.4	96.5	92.8	3.63	26.556			
900.0	884.4	889.2	879.9	3.0	2.4	-137.72	78.9	-33.5	125.2	120.7	4.57	27.379			
1,000.0	976.8	982.3	967.9	3.7	2.9	-134.55	108.8	-39.4	158.5	152.9	5.66	28.036			
1,100.0	1,067.1	1,073.2	1,052.3	4.5	3.6	-131.90	142.0	-45.8	196.2	189.3	6.86	28.585			
1,200.0	1,155.2	1,162.0	1,133.1	5.4	4.2	-129.99	178.2	-52.9	237.7	229.5	8.17	29.078			
1,300.0	1,243.1	1,249.3	1,210.7	6.3	5.0	-128.26	217.3	-60.5	280.6	271.1	9.57	29.313			
1,400.0	1,330.9	1,334.9	1,285.0	7.2	5.7	-126.26	259.0	-68.7	324.8	313.8	11.04	29.413			
1,500.0	1,418.7	1,418.6	1,355.8	8.1	6.5	-124.14	302.9	-77.2	370.5	358.0	12.56	29.489			
1,600.0	1,506.6	1,500.0	1,422.6	9.0	7.4	-121.98	348.4	-86.1	417.8	403.7	14.11	29.603			
1,700.0	1,594.4	1,579.2	1,485.7	9.9	8.2	-119.84	395.4	-95.3	466.9	451.2	15.69	29.753			
1,800.0	1,682.2	1,656.2	1,545.1	10.8	9.1	-117.75	443.5	-104.7	517.9	500.6	17.26	30.007			
1,900.0	1,770.1	1,739.8	1,608.6	11.6	10.1	-115.71	496.9	-115.1	570.0	551.1	18.88	30.193			
2,000.0	1,857.9	1,823.4	1,672.1	12.5	11.0	-113.99	550.3	-125.5	622.6	602.1	20.48	30.405			
2,100.0	1,945.7	1,907.1	1,735.7	13.4	12.0	-112.54	603.6	-135.9	675.6	653.5	22.06	30.625			
2,200.0	2,033.6	1,990.7	1,799.2	14.3	12.9	-111.29	657.0	-146.3	728.8	705.2	23.63	30.844			
2,300.0	2,121.4	2,074.4	1,862.8	15.2	13.9	-110.21	710.4	-156.7	782.3	757.1	25.19	31.058			
2,400.0	2,209.2	2,158.0	1,926.3	16.1	14.9	-109.26	763.7	-167.1	835.9	809.2	26.74	31.263			
2,500.0	2,297.1	2,241.6	1,989.8	17.0	15.8	-108.43	817.1	-177.6	889.7	861.4	28.28	31.459			
2,600.0	2,384.9	2,325.3	2,053.4	17.9	16.8	-107.69	870.5	-188.0	943.6	913.7	29.82	31.644			
2,700.0	2,472.7	2,408.9	2,116.9	18.8	17.7	-107.03	923.9	-198.4	997.6	966.2	31.35	31.820			
2,800.0	2,560.6	2,492.5	2,180.5	19.7	18.7	-106.44	977.2	-208.8	1,051.6	1,018.8	32.88	31.986			
2,900.0	2,648.4	2,576.2	2,244.0	20.6	19.7	-105.90	1,030.6	-219.2	1,105.8	1,071.4	34.40	32.142			
3,000.0	2,736.2	2,659.8	2,307.6	21.5	20.6	-105.42	1,084.0	-229.6	1,160.0	1,124.1	35.93	32.289			
3,100.0	2,824.4	2,743.5	2,371.1	22.4	21.6	-105.93	1,137.4	-240.0	1,214.1	1,176.5	37.58	32.307			
3,200.0	2,914.7	2,827.2	2,434.8	23.1	22.6	-107.05	1,190.8	-250.5	1,267.2	1,228.0	39.25	32.283			
3,300.0	3,007.1	2,956.7	2,535.2	23.8	24.0	-107.55	1,271.0	-266.1	1,318.1	1,276.9	41.12	32.053			

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 13C-13
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.6ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.6ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 13C-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													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	0.2	0.2	0.0	0.0	-129.82	-16.6	-20.0	26.0						
100.0	100.0	100.2	100.2	0.1	0.1	-129.82	-16.6	-20.0	26.0	25.7	0.26	101.905			
200.0	200.0	200.2	200.2	0.3	0.3	-129.82	-16.6	-20.0	26.0	25.4	0.60	43.031	CC, ES		
300.0	300.0	300.2	300.2	0.5	0.5	-176.21	-16.6	-20.0	28.6	27.7	0.95	30.038			
400.0	399.6	400.3	400.3	0.7	0.7	-176.09	-16.0	-20.1	36.1	34.8	1.30	27.814	SF		
500.0	498.8	500.5	500.4	1.0	0.8	-171.38	-10.9	-21.3	47.0	45.3	1.66	28.288			
600.0	597.1	600.2	599.5	1.4	1.1	-164.74	-0.7	-23.7	61.4	59.4	2.08	29.580			
700.0	694.3	698.9	696.9	1.8	1.4	-158.16	14.3	-27.2	80.3	77.7	2.61	30.786			
800.0	790.2	796.2	792.2	2.4	1.7	-152.39	33.9	-31.8	103.8	100.6	3.29	31.561			
900.0	884.4	891.9	884.7	3.0	2.2	-147.55	57.7	-37.4	132.2	128.1	4.13	31.978			
1,000.0	976.8	985.7	974.0	3.7	2.7	-143.51	85.4	-43.9	165.4	160.2	5.13	32.210			
1,100.0	1,067.1	1,077.3	1,059.8	4.5	3.3	-140.10	116.5	-51.2	203.1	196.8	6.27	32.374			
1,200.0	1,155.2	1,166.6	1,141.9	5.4	3.9	-137.51	150.7	-59.2	244.8	237.3	7.53	32.527			
1,300.0	1,243.1	1,254.5	1,221.0	6.3	4.6	-135.23	188.0	-68.0	287.8	279.0	8.88	32.400			
1,400.0	1,330.9	1,340.7	1,296.9	7.2	5.3	-132.82	228.0	-77.3	332.0	321.7	10.33	32.150			
1,500.0	1,418.7	1,425.7	1,369.8	8.1	6.1	-130.35	270.5	-87.3	377.5	365.7	11.82	31.926			
1,600.0	1,506.6	1,513.3	1,444.2	9.0	6.9	-128.16	315.5	-97.8	423.9	410.5	13.35	31.742			
1,700.0	1,594.4	1,600.8	1,518.6	9.9	7.7	-126.39	360.4	-108.4	470.6	455.7	14.87	31.646			
1,800.0	1,682.2	1,688.3	1,593.0	10.8	8.6	-124.94	405.3	-118.9	517.7	501.3	16.38	31.601			
1,900.0	1,770.1	1,775.9	1,667.3	11.6	9.4	-123.72	450.2	-129.5	564.9	547.0	17.88	31.589			
2,000.0	1,857.9	1,863.4	1,741.7	12.5	10.2	-122.69	495.1	-140.0	612.3	593.0	19.38	31.596			
2,100.0	1,945.7	1,951.0	1,816.1	13.4	11.0	-121.81	540.0	-150.5	659.9	639.0	20.87	31.615			
2,200.0	2,033.6	2,038.5	1,890.5	14.3	11.8	-121.05	585.0	-161.1	707.6	685.2	22.36	31.642			
2,300.0	2,121.4	2,126.0	1,964.9	15.2	12.6	-120.38	629.9	-171.6	755.3	731.5	23.85	31.672			
2,400.0	2,209.2	2,213.6	2,039.3	16.1	13.5	-119.79	674.8	-182.1	803.2	777.8	25.33	31.706			
2,500.0	2,297.1	2,301.1	2,113.7	17.0	14.3	-119.26	719.7	-192.7	851.0	824.2	26.81	31.740			
2,600.0	2,384.9	2,388.7	2,188.1	17.9	15.1	-118.80	764.6	-203.2	899.0	870.7	28.29	31.774			
2,700.0	2,472.7	2,476.2	2,262.5	18.8	15.9	-118.38	809.6	-213.7	946.9	917.2	29.77	31.808			
2,800.0	2,560.6	2,563.7	2,336.9	19.7	16.8	-117.99	854.5	-224.3	995.0	963.7	31.25	31.841			
2,900.0	2,648.4	2,651.3	2,411.3	20.6	17.6	-117.65	899.4	-234.8	1,043.0	1,010.3	32.72	31.873			
3,000.0	2,736.2	2,738.8	2,485.7	21.5	18.4	-117.33	944.3	-245.3	1,091.1	1,056.9	34.20	31.904			
3,100.0	2,824.4	2,826.5	2,560.2	22.4	19.2	-117.78	989.3	-255.9	1,138.8	1,103.1	35.72	31.880			
3,200.0	2,914.7	2,914.8	2,635.2	23.1	20.1	-118.62	1,034.6	-266.5	1,184.8	1,147.5	37.22	31.829			
3,300.0	3,007.1	3,021.9	2,726.8	23.8	21.0	-119.06	1,088.8	-279.2	1,228.2	1,189.4	38.77	31.676			
3,400.0	3,101.4	3,152.7	2,842.3	24.4	22.1	-119.27	1,148.5	-293.2	1,267.1	1,226.8	40.32	31.429			
3,500.0	3,197.3	3,289.5	2,967.2	24.9	23.0	-119.43	1,202.6	-305.9	1,300.6	1,259.0	41.69	31.194			
3,600.0	3,294.5	3,431.8	3,101.2	25.3	23.8	-119.55	1,249.4	-316.9	1,328.6	1,285.7	42.87	30.993			
3,700.0	3,392.9	3,579.0	3,243.0	25.6	24.5	-119.63	1,287.6	-325.8	1,350.5	1,306.7	43.82	30.821			

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 13C-13
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.6ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.6ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 13C-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			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	0.2	0.2	0.0	0.0	-135.12	-23.7	-23.6	33.5						
100.0	100.0	100.2	100.2	0.1	0.1	-135.12	-23.7	-23.6	33.5	33.2	0.26	131.239			
200.0	200.0	200.2	200.2	0.3	0.3	-135.12	-23.7	-23.6	33.5	32.9	0.60	55.437 CC, ES			
300.0	300.0	300.2	300.2	0.5	0.5	178.94	-23.7	-23.6	36.1	35.2	0.95	37.919			
400.0	399.6	399.8	399.8	0.7	0.7	179.13	-23.7	-23.6	44.0	42.7	1.30	33.868 SF			
500.0	498.8	500.1	500.1	1.0	0.8	-178.21	-21.3	-24.5	56.0	54.3	1.65	34.013			
600.0	597.1	599.8	599.5	1.4	1.0	-172.76	-13.9	-27.2	71.6	69.6	2.02	35.441			
700.0	694.3	698.4	697.2	1.8	1.3	-166.64	-1.9	-31.6	91.5	89.1	2.47	37.102			
800.0	790.2	795.6	792.7	2.4	1.6	-160.89	14.6	-37.6	116.4	113.3	3.04	38.329			
900.0	884.4	890.8	885.4	3.0	2.0	-155.83	35.2	-45.2	146.3	142.6	3.75	38.983			
1,000.0	976.8	983.7	974.7	3.7	2.5	-151.49	59.4	-54.0	181.5	176.8	4.62	39.245			
1,100.0	1,067.1	1,074.5	1,060.7	4.5	3.0	-147.87	86.6	-63.9	221.5	215.9	5.60	39.558			
1,200.0	1,155.2	1,164.1	1,145.4	5.4	3.5	-145.86	114.0	-74.0	265.5	258.9	6.62	40.143			
1,300.0	1,243.1	1,253.5	1,229.9	6.3	4.0	-144.79	141.4	-83.9	310.2	302.5	7.65	40.546			
1,400.0	1,330.9	1,342.8	1,314.4	7.2	4.5	-143.99	168.7	-93.9	354.9	346.2	8.70	40.810			
1,500.0	1,418.7	1,432.2	1,398.9	8.1	5.0	-143.37	196.0	-103.9	399.6	389.9	9.75	40.991			
1,600.0	1,506.6	1,521.5	1,483.4	9.0	5.5	-142.87	223.4	-113.9	444.4	433.6	10.81	41.121			
1,700.0	1,594.4	1,610.9	1,567.9	9.9	6.1	-142.47	250.7	-123.9	489.2	477.3	11.87	41.216			
1,800.0	1,682.2	1,700.3	1,652.3	10.8	6.6	-142.13	278.0	-133.9	534.0	521.1	12.93	41.287			
1,900.0	1,770.1	1,789.6	1,736.8	11.6	7.1	-141.85	305.4	-143.9	578.8	564.8	14.00	41.342			
2,000.0	1,857.9	1,879.0	1,821.3	12.5	7.7	-141.60	332.7	-153.8	623.7	608.6	15.07	41.385			
2,100.0	1,945.7	1,968.3	1,905.8	13.4	8.2	-141.39	360.1	-163.8	668.5	652.4	16.14	41.419			
2,200.0	2,033.6	2,057.7	1,990.3	14.3	8.7	-141.21	387.4	-173.8	713.4	696.2	17.21	41.447			
2,300.0	2,121.4	2,147.0	2,074.8	15.2	9.2	-141.04	414.7	-183.8	758.2	740.0	18.28	41.470			
2,400.0	2,209.2	2,236.4	2,159.2	16.1	9.8	-140.90	442.1	-193.8	803.1	783.7	19.36	41.489			
2,500.0	2,297.1	2,325.7	2,243.7	17.0	10.3	-140.77	469.4	-203.8	848.0	827.5	20.43	41.504			
2,600.0	2,384.9	2,415.1	2,328.2	17.9	10.8	-140.65	496.8	-213.8	892.8	871.3	21.50	41.518			
2,700.0	2,472.7	2,504.5	2,412.7	18.8	11.4	-140.55	524.1	-223.7	937.7	915.1	22.58	41.529			
2,800.0	2,560.6	2,593.8	2,497.2	19.7	11.9	-140.45	551.4	-233.7	982.6	958.9	23.65	41.538			
2,900.0	2,648.4	2,683.2	2,581.7	20.6	12.4	-140.37	578.8	-243.7	1,027.4	1,002.7	24.73	41.547			
3,000.0	2,736.2	2,772.5	2,666.1	21.5	13.0	-140.29	606.1	-253.7	1,072.3	1,046.5	25.81	41.554			
3,100.0	2,824.4	2,862.1	2,750.9	22.4	13.5	-140.68	633.5	-263.7	1,116.7	1,089.8	26.88	41.547			
3,200.0	2,914.7	2,953.2	2,836.9	23.1	14.0	-141.28	661.4	-273.9	1,157.8	1,129.8	27.93	41.448			
3,300.0	3,007.1	3,045.6	2,924.3	23.8	14.6	-141.63	689.6	-284.2	1,195.2	1,166.2	28.99	41.231			
3,400.0	3,101.4	3,139.1	3,012.7	24.4	15.1	-141.75	718.3	-294.7	1,228.8	1,198.7	30.03	40.915			
3,500.0	3,197.3	3,247.7	3,116.0	24.9	15.7	-141.66	749.5	-306.1	1,258.2	1,227.1	31.08	40.487			
3,600.0	3,294.5	3,362.1	3,226.8	25.3	16.2	-141.58	776.4	-315.9	1,282.4	1,250.5	31.96	40.120			
3,700.0	3,392.9	3,479.2	3,341.7	25.6	16.6	-141.55	797.5	-323.6	1,301.3	1,268.7	32.67	39.831			
3,800.0	3,492.0	3,598.2	3,459.7	25.8	16.9	-141.56	812.1	-328.9	1,314.7	1,281.5	33.18	39.621			
3,900.0	3,591.7	3,718.6	3,579.8	25.9	17.0	-141.61	819.8	-331.8	1,322.5	1,289.0	33.48	39.504			
4,000.0	3,691.6	3,830.7	3,691.8	26.0	17.1	-95.66	821.0	-332.2	1,324.7	1,291.1	33.61	39.418			
4,100.0	3,791.6	3,930.7	3,791.8	26.0	17.2	-95.66	821.0	-332.2	1,324.7	1,291.0	33.75	39.251			
4,200.0	3,891.6	4,030.7	3,891.8	26.1	17.3	-95.66	821.0	-332.2	1,324.7	1,290.9	33.90	39.083			
4,300.0	3,991.6	4,130.7	3,991.8	26.1	17.3	-95.66	821.0	-332.2	1,324.7	1,290.7	34.04	38.912			
4,400.0	4,091.6	4,230.7	4,091.8	26.2	17.4	-95.66	821.0	-332.2	1,324.7	1,290.6	34.20	38.740			
4,500.0	4,191.6	4,330.7	4,191.8	26.2	17.5	-95.66	821.0	-332.2	1,324.7	1,290.4	34.35	38.566			
4,600.0	4,291.6	4,430.7	4,291.8	26.3	17.6	-95.66	821.0	-332.2	1,324.7	1,290.2	34.51	38.391			
4,700.0	4,391.6	4,530.7	4,391.8	26.3	17.6	-95.66	821.0	-332.2	1,324.7	1,290.1	34.67	38.214			
4,800.0	4,491.6	4,630.7	4,491.8	26.4	17.7	-95.66	821.0	-332.2	1,324.7	1,289.9	34.83	38.035			
4,900.0	4,591.6	4,730.7	4,591.8	26.4	17.8	-95.66	821.0	-332.2	1,324.7	1,289.8	34.99	37.856			
5,000.0	4,691.6	4,830.7	4,691.8	26.5	17.9	-95.66	821.0	-332.2	1,324.7	1,289.6	35.16	37.675			
5,100.0	4,791.6	4,930.7	4,791.8	26.5	18.0	-95.66	821.0	-332.2	1,324.7	1,289.4	35.33	37.493			

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 13C-13
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.6ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.6ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 13C-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			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	4,891.6	5,030.7	4,891.8	26.6	18.0	-95.66	821.0	-332.2	1,324.7	1,289.2	35.51	37.310		
5,300.0	4,991.6	5,130.7	4,991.8	26.7	18.1	-95.66	821.0	-332.2	1,324.7	1,289.1	35.68	37.126		
5,400.0	5,091.6	5,230.7	5,091.8	26.7	18.2	-95.66	821.0	-332.2	1,324.7	1,288.9	35.86	36.941		
5,500.0	5,191.6	5,330.7	5,191.8	26.8	18.3	-95.66	821.0	-332.2	1,324.7	1,288.7	36.04	36.756		
5,600.0	5,291.6	5,430.7	5,291.8	26.8	18.4	-95.66	821.0	-332.2	1,324.7	1,288.5	36.23	36.570		
5,700.0	5,391.6	5,530.7	5,391.8	26.9	18.5	-95.66	821.0	-332.2	1,324.7	1,288.3	36.41	36.383		
5,800.0	5,491.6	5,630.7	5,491.8	27.0	18.6	-95.66	821.0	-332.2	1,324.7	1,288.1	36.60	36.196		
5,900.0	5,591.6	5,730.7	5,591.8	27.0	18.7	-95.66	821.0	-332.2	1,324.7	1,288.0	36.79	36.008		
6,000.0	5,691.6	5,830.7	5,691.8	27.1	18.8	-95.66	821.0	-332.2	1,324.7	1,287.8	36.98	35.821		
6,100.0	5,791.6	5,930.7	5,791.8	27.2	18.9	-95.66	821.0	-332.2	1,324.7	1,287.6	37.18	35.633		
6,142.7	5,834.3	5,973.3	5,834.5	27.2	18.9	-95.66	821.0	-332.2	1,324.7	1,287.5	37.26	35.552		
6,200.0	5,891.6	5,988.8	5,850.0	27.2	18.9	-95.66	821.0	-332.2	1,325.4	1,288.1	37.33	35.501		
6,218.4	5,910.0	5,988.8	5,850.0	27.2	18.9	-95.66	821.0	-332.2	1,326.1	1,288.8	37.35	35.503		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 13C-13
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.6ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.6ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 13C-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													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	0.2	0.2	0.0	0.0	-138.43	-30.8	-27.3	41.2						
100.0	100.0	100.2	100.2	0.1	0.1	-138.43	-30.8	-27.3	41.2	41.0	0.26	161.276			
200.0	200.0	200.2	200.2	0.3	0.3	-138.43	-30.8	-27.3	41.2	40.6	0.60	68.160 CC, ES			
300.0	300.0	300.2	300.2	0.5	0.5	175.81	-30.8	-27.3	43.8	42.9	0.95	45.987			
400.0	399.6	399.8	399.8	0.7	0.7	176.43	-30.8	-27.3	51.6	50.3	1.30	39.771			
500.0	498.8	499.3	499.3	1.0	0.8	177.50	-30.5	-27.6	64.6	62.9	1.64	39.343 SF			
600.0	597.1	598.4	598.3	1.4	1.0	-179.63	-27.5	-29.2	81.9	79.9	1.98	41.291			
700.0	694.3	696.5	696.2	1.8	1.2	-175.98	-21.6	-32.5	103.7	101.4	2.34	44.389			
800.0	790.2	793.2	792.4	2.4	1.4	-172.32	-12.9	-37.4	130.5	127.7	2.73	47.865			
900.0	884.4	888.2	886.5	3.0	1.7	-168.97	-1.7	-43.7	162.1	159.0	3.17	51.151			
1,000.0	976.8	981.2	978.2	3.7	2.0	-165.98	12.0	-51.4	198.8	195.1	3.69	53.920			
1,100.0	1,067.1	1,071.9	1,067.0	4.5	2.3	-163.35	27.8	-60.3	240.3	236.1	4.29	56.076			
1,200.0	1,155.2	1,160.3	1,153.0	5.4	2.6	-161.21	45.5	-70.3	286.2	281.2	4.98	57.435			
1,300.0	1,243.1	1,247.7	1,237.5	6.3	3.0	-159.37	65.4	-81.4	332.9	327.1	5.78	57.580			
1,400.0	1,330.9	1,334.5	1,320.5	7.2	3.5	-157.53	87.3	-93.7	380.1	373.4	6.66	57.035			
1,500.0	1,418.7	1,420.8	1,402.3	8.1	4.0	-155.73	111.1	-107.1	427.8	420.2	7.62	56.158			
1,600.0	1,506.6	1,507.8	1,484.6	9.0	4.5	-154.18	135.7	-120.9	475.9	467.3	8.60	55.330			
1,700.0	1,594.4	1,594.8	1,567.0	9.9	5.0	-152.91	160.3	-134.7	524.2	514.6	9.59	54.636			
1,800.0	1,682.2	1,681.8	1,649.3	10.8	5.5	-151.86	184.8	-148.5	572.7	562.1	10.60	54.053			
1,900.0	1,770.1	1,768.8	1,731.6	11.6	6.0	-150.97	209.4	-162.3	621.3	609.7	11.60	53.561			
2,000.0	1,857.9	1,855.8	1,813.9	12.5	6.5	-150.20	234.0	-176.2	670.0	657.4	12.61	53.142			
2,100.0	1,945.7	1,942.8	1,896.2	13.4	7.0	-149.54	258.6	-190.0	718.8	705.2	13.62	52.783			
2,200.0	2,033.6	2,029.8	1,978.5	14.3	7.5	-148.97	283.2	-203.8	767.7	753.0	14.63	52.471			
2,300.0	2,121.4	2,116.8	2,060.8	15.2	8.0	-148.46	307.7	-217.6	816.6	800.9	15.64	52.199			
2,400.0	2,209.2	2,203.9	2,143.2	16.1	8.5	-148.01	332.3	-231.4	865.5	848.8	16.66	51.960			
2,500.0	2,297.1	2,290.9	2,225.5	17.0	9.0	-147.60	356.9	-245.2	914.5	896.8	17.67	51.747			
2,600.0	2,384.9	2,381.3	2,311.2	17.9	9.5	-147.25	382.2	-259.4	963.4	944.7	18.69	51.540			
2,700.0	2,472.7	2,477.0	2,402.6	18.8	10.0	-147.08	406.8	-273.2	1,011.8	992.1	19.66	51.466			
2,800.0	2,560.6	2,573.7	2,495.9	19.7	10.5	-147.11	428.9	-285.6	1,059.4	1,038.9	20.55	51.560			
2,900.0	2,648.4	2,671.1	2,590.7	20.6	10.9	-147.34	448.3	-296.6	1,106.3	1,084.9	21.35	51.813			
3,000.0	2,736.2	2,769.0	2,686.7	21.5	11.2	-147.72	465.0	-306.0	1,152.5	1,130.4	22.07	52.217			
3,100.0	2,824.4	2,867.5	2,783.9	22.4	11.5	-148.64	479.0	-313.8	1,197.4	1,174.7	22.71	52.731			
3,200.0	2,914.7	2,968.3	2,883.9	23.1	11.8	-149.82	490.2	-320.1	1,238.0	1,214.7	23.25	53.248			
3,300.0	3,007.1	3,071.3	2,986.4	23.8	12.0	-150.89	498.5	-324.8	1,273.8	1,250.1	23.70	53.755			
3,400.0	3,101.4	3,176.1	3,091.1	24.4	12.1	-151.87	503.7	-327.7	1,304.5	1,280.5	24.04	54.269			
3,500.0	3,197.3	3,282.3	3,197.2	24.9	12.2	-152.78	505.5	-328.7	1,330.2	1,306.0	24.28	54.795			
3,600.0	3,294.5	3,379.8	3,294.7	25.3	12.3	-153.52	505.5	-328.7	1,351.1	1,326.6	24.48	55.203			

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 13C-13
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.6ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.6ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 13C-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			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Tooface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.2	0.2	0.0	0.0	-140.70	-37.9	-31.0	49.0					
100.0	100.0	100.2	100.2	0.1	0.1	-140.70	-37.9	-31.0	49.0	48.8	0.26	191.708		
200.0	200.0	200.2	200.2	0.3	0.3	-140.70	-37.9	-31.0	49.0	48.4	0.60	81.048 CC, ES		
300.0	300.0	300.2	300.2	0.5	0.5	173.61	-37.9	-31.0	51.6	50.7	0.95	54.154		
400.0	399.6	399.8	399.8	0.7	0.7	174.43	-37.9	-31.0	59.4	58.1	1.30	45.737		
500.0	498.8	499.0	499.0	1.0	0.8	175.40	-37.9	-31.0	72.4	70.8	1.64	44.128 SF		
600.0	597.1	596.2	596.2	1.4	1.0	177.80	-36.7	-33.1	91.2	89.2	1.98	46.094		
700.0	694.3	691.2	690.9	1.8	1.2	-178.23	-33.2	-39.4	116.5	114.2	2.32	50.165		
800.0	790.2	784.9	784.0	2.4	1.4	-174.38	-27.9	-48.6	148.6	145.9	2.69	55.327		
900.0	884.4	877.5	875.9	3.0	1.6	-171.94	-22.6	-57.9	186.0	182.9	3.06	60.758		
1,000.0	976.8	968.0	965.8	3.7	1.8	-170.42	-17.4	-67.0	228.3	224.8	3.44	66.322		
1,100.0	1,067.1	1,056.2	1,053.4	4.5	2.1	-169.46	-12.4	-75.9	275.2	271.4	3.82	71.965		
1,200.0	1,155.2	1,142.2	1,138.9	5.4	2.3	-168.99	-7.4	-84.6	326.2	321.9	4.23	77.169		
1,300.0	1,243.1	1,227.9	1,224.0	6.3	2.5	-168.79	-2.5	-93.2	377.7	373.1	4.66	81.130		
1,400.0	1,330.9	1,313.6	1,309.1	7.2	2.7	-168.64	2.4	-101.8	429.3	424.2	5.09	84.360		
1,500.0	1,418.7	1,399.3	1,394.2	8.1	2.9	-168.52	7.3	-110.4	480.8	475.3	5.52	87.037		
1,600.0	1,506.6	1,485.0	1,479.3	9.0	3.2	-168.43	12.2	-119.1	532.4	526.4	5.96	89.288		
1,700.0	1,594.4	1,570.6	1,564.4	9.9	3.4	-168.35	17.2	-127.7	583.9	577.5	6.40	91.204		
1,800.0	1,682.2	1,656.3	1,649.5	10.8	3.6	-168.29	22.1	-136.3	635.5	628.6	6.84	92.855		
1,900.0	1,770.1	1,742.0	1,734.6	11.6	3.8	-168.23	27.0	-145.0	687.1	679.8	7.29	94.290		
2,000.0	1,857.9	1,827.7	1,819.7	12.5	4.1	-168.18	31.9	-153.6	738.6	730.9	7.73	95.549		
2,100.0	1,945.7	1,913.4	1,904.8	13.4	4.3	-168.14	36.8	-162.2	790.2	782.0	8.17	96.661		
2,200.0	2,033.6	1,999.1	1,989.9	14.3	4.5	-168.10	41.8	-170.8	841.7	833.1	8.62	97.651		
2,300.0	2,121.4	2,084.7	2,075.1	15.2	4.7	-168.07	46.7	-179.5	893.3	884.2	9.07	98.537		
2,400.0	2,209.2	2,170.4	2,160.2	16.1	5.0	-168.04	51.6	-188.1	944.8	935.3	9.51	99.334		
2,500.0	2,297.1	2,256.1	2,245.3	17.0	5.2	-168.02	56.5	-196.7	996.4	986.4	9.96	100.056		
2,600.0	2,384.9	2,341.8	2,330.4	17.9	5.4	-167.99	61.4	-205.3	1,048.0	1,037.6	10.41	100.711		
2,700.0	2,472.7	2,427.5	2,415.5	18.8	5.6	-167.97	66.3	-214.0	1,099.5	1,088.7	10.85	101.310		
2,800.0	2,560.6	2,513.2	2,500.6	19.7	5.9	-167.95	71.3	-222.6	1,151.1	1,139.8	11.30	101.859		
2,900.0	2,648.4	2,598.8	2,585.7	20.6	6.1	-167.93	76.2	-231.2	1,202.6	1,190.9	11.75	102.363		
3,000.0	2,736.2	2,684.5	2,670.8	21.5	6.3	-167.92	81.1	-239.9	1,254.2	1,242.0	12.20	102.828		
3,100.0	2,824.4	2,770.6	2,756.3	22.4	6.6	-168.09	86.0	-248.5	1,305.1	1,292.5	12.68	102.964		
3,200.0	2,914.7	2,858.8	2,843.9	23.1	6.8	-168.35	91.1	-257.4	1,352.1	1,338.9	13.18	102.601		

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 13C-13
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.6ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.6ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 13C-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													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	0.2	0.2	0.0	0.0	-142.34	-45.0	-34.7	56.9						
100.0	100.0	100.2	100.2	0.1	0.1	-142.34	-45.0	-34.7	56.9	56.6	0.26	222.264			
200.0	200.0	200.2	200.2	0.3	0.3	-142.34	-45.0	-34.7	56.9	56.3	0.60	94.007 CC, ES			
300.0	300.0	300.2	300.2	0.5	0.5	172.00	-45.0	-34.7	59.5	58.5	0.95	62.368			
400.0	399.6	399.8	399.8	0.7	0.7	172.90	-45.0	-34.7	67.2	65.9	1.30	51.734			
500.0	498.8	495.8	495.8	1.0	0.8	175.07	-45.4	-37.1	82.1	80.5	1.64	50.146 SF			
600.0	597.1	589.0	588.7	1.4	1.0	178.20	-46.7	-43.8	106.1	104.2	1.97	53.911			
700.0	694.3	679.1	678.3	1.8	1.2	179.69	-51.2	-52.1	139.1	136.8	2.28	60.912			
800.0	790.2	770.9	769.5	2.4	1.4	-179.75	-57.7	-60.8	178.5	175.9	2.59	68.821			
900.0	884.4	860.6	858.6	3.0	1.6	-179.40	-64.0	-69.3	222.7	219.8	2.89	77.011			
1,000.0	976.8	947.9	945.2	3.7	1.9	-179.16	-70.1	-77.6	271.5	268.3	3.18	85.458			
1,100.0	1,067.1	1,032.5	1,029.2	4.5	2.1	-179.00	-76.0	-85.6	324.8	321.4	3.45	94.168			
1,200.0	1,155.2	1,114.5	1,110.7	5.4	2.3	-178.90	-81.8	-93.3	382.0	378.3	3.73	102.285			
1,300.0	1,243.1	1,196.1	1,191.7	6.3	2.5	-178.85	-87.5	-101.1	439.8	435.7	4.04	108.724			
1,400.0	1,330.9	1,277.8	1,272.8	7.2	2.7	-178.81	-93.3	-108.8	497.5	493.2	4.35	114.253			
1,500.0	1,418.7	1,359.4	1,353.8	8.1	2.9	-178.77	-99.0	-116.6	555.3	550.6	4.66	119.057			
1,600.0	1,506.6	1,441.0	1,434.9	9.0	3.2	-178.74	-104.7	-124.3	613.0	608.1	4.97	123.270			
1,700.0	1,594.4	1,522.6	1,516.0	9.9	3.4	-178.72	-110.4	-132.0	670.8	665.5	5.28	126.996			
1,800.0	1,682.2	1,604.3	1,597.0	10.8	3.6	-178.70	-116.2	-139.8	728.6	723.0	5.59	130.314			
1,900.0	1,770.1	1,685.9	1,678.1	11.6	3.8	-178.69	-121.9	-147.5	786.3	780.4	5.90	133.286			
2,000.0	1,857.9	1,767.5	1,759.1	12.5	4.0	-178.67	-127.6	-155.2	844.1	837.9	6.21	135.966			
2,100.0	1,945.7	1,849.2	1,840.2	13.4	4.2	-178.66	-133.4	-163.0	901.9	895.3	6.52	138.394			
2,200.0	2,033.6	1,930.8	1,921.3	14.3	4.5	-178.65	-139.1	-170.7	959.6	952.8	6.82	140.605			
2,300.0	2,121.4	2,012.4	2,002.3	15.2	4.7	-178.64	-144.8	-178.5	1,017.4	1,010.3	7.13	142.627			
2,400.0	2,209.2	2,094.1	2,083.4	16.1	4.9	-178.63	-150.6	-186.2	1,075.2	1,067.7	7.44	144.482			
2,500.0	2,297.1	2,175.7	2,164.4	17.0	5.1	-178.62	-156.3	-193.9	1,132.9	1,125.2	7.75	146.190			
2,600.0	2,384.9	2,257.3	2,245.5	17.9	5.3	-178.62	-162.0	-201.7	1,190.7	1,182.6	8.06	147.769			
2,700.0	2,472.7	2,338.9	2,326.6	18.8	5.6	-178.61	-167.7	-209.4	1,248.4	1,240.1	8.37	149.233			
2,800.0	2,560.6	2,420.6	2,407.6	19.7	5.8	-178.61	-173.5	-217.1	1,306.2	1,297.5	8.67	150.593			

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 13C-13
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.6ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.6ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 13C-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				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Tooface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.2	0.2	0.0	0.0	-143.58	-52.1	-38.4	64.8					
100.0	100.0	100.2	100.2	0.1	0.1	-143.58	-52.1	-38.4	64.8	64.5	0.26	252.916		
200.0	200.0	200.2	200.2	0.3	0.3	-143.58	-52.1	-38.4	64.8	64.1	0.61	107.013 CC, ES		
300.0	300.0	300.2	300.2	0.5	0.5	170.76	-52.1	-38.4	67.3	66.4	0.95	70.614		
400.0	399.6	399.8	399.8	0.7	0.7	171.69	-52.1	-38.4	75.1	73.8	1.30	57.755		
500.0	498.8	499.0	499.0	1.0	0.8	172.87	-52.1	-38.4	88.0	86.4	1.64	53.571 SF		
600.0	597.1	597.3	597.3	1.4	1.0	174.03	-52.1	-38.4	106.1	104.2	1.98	53.587		
700.0	694.3	694.5	694.5	1.8	1.2	175.04	-52.1	-38.4	129.4	127.1	2.31	55.993		
800.0	790.2	790.4	790.4	2.4	1.3	175.87	-52.1	-38.4	157.7	155.1	2.63	59.922		
900.0	884.4	884.6	884.6	3.0	1.5	176.53	-52.1	-38.4	191.0	188.1	2.94	64.910		
1,000.0	976.8	977.0	977.0	3.7	1.7	177.04	-52.1	-38.4	229.2	226.0	3.24	70.693		
1,100.0	1,067.1	1,067.3	1,067.3	4.5	1.8	177.45	-52.1	-38.4	272.2	268.7	3.53	77.113		
1,200.0	1,155.2	1,155.4	1,155.4	5.4	2.0	177.79	-52.1	-38.4	319.4	315.5	3.83	83.385		
1,300.0	1,243.1	1,243.3	1,243.3	6.3	2.1	178.08	-52.1	-38.4	367.2	363.0	4.15	88.400		
1,400.0	1,330.9	1,331.1	1,331.1	7.2	2.3	178.30	-52.1	-38.4	414.9	410.5	4.48	92.702		
1,500.0	1,418.7	1,418.9	1,418.9	8.1	2.4	178.48	-52.1	-38.4	462.7	457.9	4.80	96.433		
1,600.0	1,506.6	1,506.8	1,506.8	9.0	2.6	178.62	-52.1	-38.4	510.5	505.4	5.12	99.700		
1,700.0	1,594.4	1,594.6	1,594.6	9.9	2.7	178.74	-52.1	-38.4	558.3	552.9	5.44	102.586		
1,800.0	1,682.2	1,682.4	1,682.4	10.8	2.9	178.84	-52.1	-38.4	606.1	600.4	5.76	105.152		
1,900.0	1,770.1	1,770.3	1,770.3	11.6	3.0	178.92	-52.1	-38.4	653.9	647.8	6.09	107.450		
2,000.0	1,857.9	1,858.1	1,858.1	12.5	3.2	179.00	-52.1	-38.4	701.7	695.3	6.41	109.520		
2,100.0	1,945.7	1,945.9	1,945.9	13.4	3.4	179.06	-52.1	-38.4	749.5	742.8	6.73	111.394		
2,200.0	2,033.6	2,033.8	2,033.8	14.3	3.5	179.12	-52.1	-38.4	797.3	790.3	7.05	113.098		
2,300.0	2,121.4	2,121.6	2,121.6	15.2	3.7	179.17	-52.1	-38.4	845.1	837.7	7.37	114.655		
2,400.0	2,209.2	2,209.4	2,209.4	16.1	3.8	179.21	-52.1	-38.4	892.9	885.2	7.69	116.083		
2,500.0	2,297.1	2,297.3	2,297.3	17.0	4.0	179.25	-52.1	-38.4	940.7	932.7	8.01	117.397		
2,600.0	2,384.9	2,385.1	2,385.1	17.9	4.1	179.29	-52.1	-38.4	988.5	980.2	8.33	118.611		
2,700.0	2,472.7	2,472.9	2,472.9	18.8	4.3	179.32	-52.1	-38.4	1,036.3	1,027.7	8.66	119.735		
2,800.0	2,560.6	2,560.8	2,560.8	19.7	4.4	179.35	-52.1	-38.4	1,084.1	1,075.2	8.98	120.780		
2,900.0	2,648.4	2,648.6	2,648.6	20.6	4.6	179.38	-52.1	-38.4	1,131.9	1,122.6	9.30	121.753		
3,000.0	2,736.2	2,736.4	2,736.4	21.5	4.7	179.40	-52.1	-38.4	1,179.7	1,170.1	9.62	122.661		
3,100.0	2,824.4	2,824.6	2,824.6	22.4	4.9	179.43	-52.1	-38.4	1,226.9	1,216.9	9.99	122.822		
3,200.0	2,914.7	2,914.9	2,914.9	23.1	5.0	179.47	-52.1	-38.4	1,269.8	1,259.5	10.40	122.145		
3,300.0	3,007.1	3,007.3	3,007.3	23.8	5.2	179.49	-52.1	-38.4	1,308.0	1,297.2	10.79	121.200		
3,400.0	3,101.4	3,101.6	3,101.6	24.4	5.4	179.52	-52.1	-38.4	1,341.3	1,330.1	11.18	120.019		

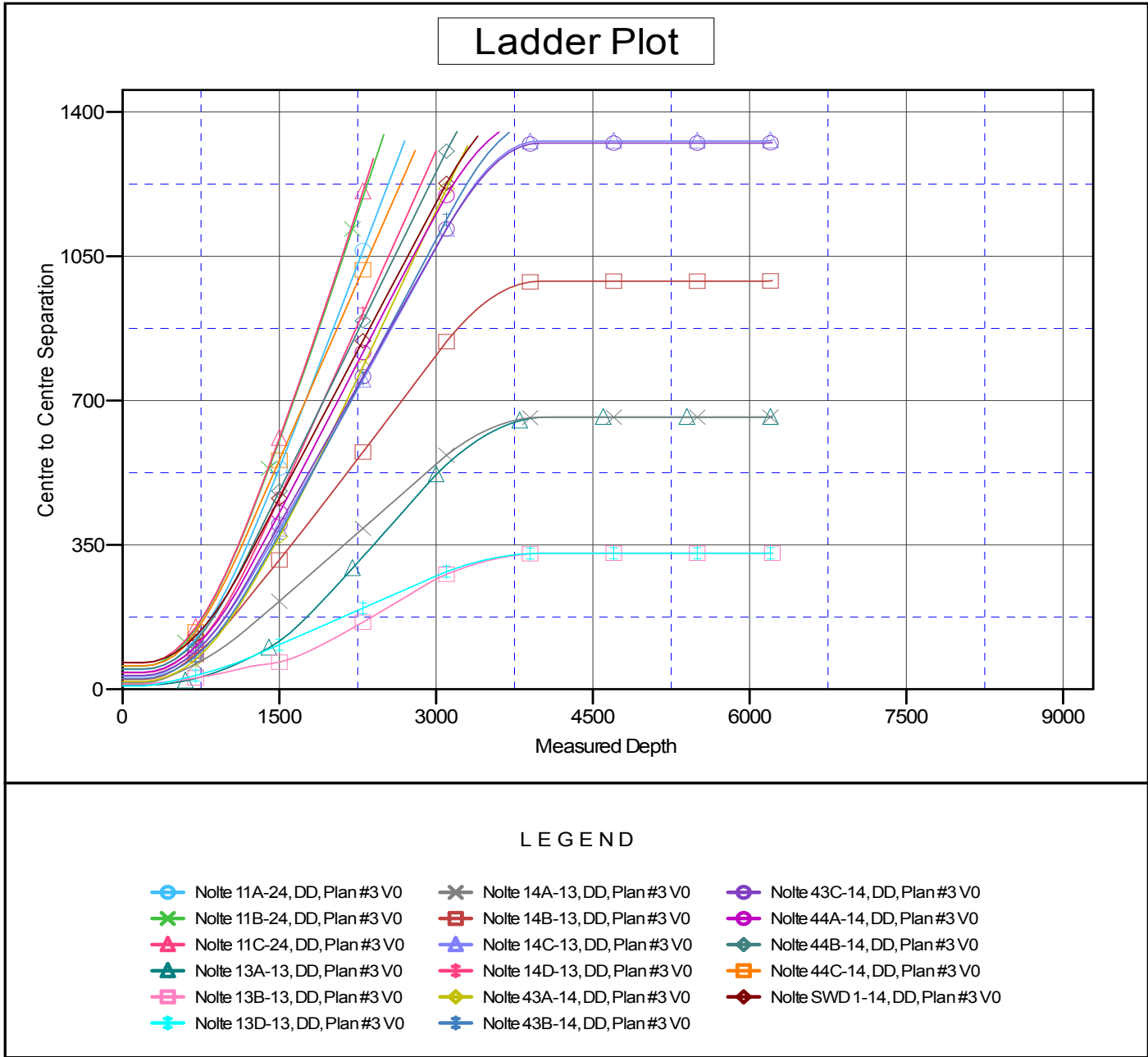
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Cathedral Energy Services

Anticollision Report

Company: Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference: Well Nolte 13C-13	
Project: Garfield County, CO	TVD Reference: WELL @ 5117.6ft (Original Well Elev)	
Reference Site: S14-T7S-R96W	MD Reference: WELL @ 5117.6ft (Original Well Elev)	
Site Error: 0.0ft	North Reference: True	
Reference Well: Nolte 13C-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 @ 5117.6ft (Original Well Elev) Coordinates are relative to: Nolte 13C-13
 Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1927 (Exact solution), Colorado Central 502
 Central Meridian is -105.500000 ° Grid Convergence at Surface is: -1.62°



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