

Vertical Section at 73.15° (800 ft/in)

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Nolte 14A-13
Company:	Caerus Oil & Gas (NAD 27)	TVD Reference:	WELL @ 5117.8ft (Original Well Elev)
Project:	Garfield County, CO	MD Reference:	WELL @ 5117.8ft (Original Well Elev)
Site:	S14-T7S-R96W	North Reference:	True
Well:	Nolte 14A-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 14A-13					
Well Position	+N/-S	0.0 ft	Northing:	592,637.36 ft	Latitude:	39.432429
	+E/-W	0.0 ft	Easting:	1,274,577.89 ft	Longitude:	-108.068557
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	5,090.5 ft

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

Design	Plan #3				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(ft)	(ft)	(ft)	(°)	
	0.0	0.0	0.0	73.15	

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,157.4	22.72	72.98	1,137.7	43.4	141.7	3.00	3.00	0.00	72.98	
3,097.6	22.72	72.98	2,927.3	262.7	858.3	0.00	0.00	0.00	0.00	
3,855.0	0.00	0.00	3,665.0	306.1	1,000.1	3.00	-3.00	0.00	180.00	
6,060.0	0.00	0.00	5,870.0	306.1	1,000.1	0.00	0.00	0.00	0.00	Nolte 14A-13 PBHL 2

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Project:	Garfield County, CO	MD Reference:	WELL @ 5117.8ft (Original Well Elev)
Site:	S14-T7S-R96W	North Reference:	True
Well:	Nolte 14A-13	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #3		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	KOP @ 400 'MD
500.0	3.00	72.98	500.0	0.8	2.5	2.6	3.00	3.00	
600.0	6.00	72.98	599.6	3.1	10.0	10.5	3.00	3.00	
700.0	9.00	72.98	698.8	6.9	22.5	23.5	3.00	3.00	
800.0	12.00	72.98	797.1	12.2	39.9	41.7	3.00	3.00	
900.0	15.00	72.98	894.3	19.0	62.2	65.1	3.00	3.00	
1,000.0	18.00	72.98	990.2	27.4	89.4	93.5	3.00	3.00	9 5/8"
1,100.0	21.00	72.98	1,084.4	37.1	121.3	126.9	3.00	3.00	
1,157.4	22.72	72.98	1,137.7	43.4	141.7	148.2	3.00	3.00	EOB; 22.72° Inc
1,200.0	22.72	72.98	1,177.0	48.2	157.5	164.7	0.00	0.00	
1,300.0	22.72	72.98	1,269.2	59.5	194.4	203.3	0.00	0.00	
1,400.0	22.72	72.98	1,361.5	70.8	231.3	241.9	0.00	0.00	
1,500.0	22.72	72.98	1,453.7	82.1	268.3	280.6	0.00	0.00	
1,600.0	22.72	72.98	1,546.0	93.4	305.2	319.2	0.00	0.00	
1,700.0	22.72	72.98	1,638.2	104.7	342.1	357.8	0.00	0.00	
1,800.0	22.72	72.98	1,730.4	116.0	379.1	396.4	0.00	0.00	
1,900.0	22.72	72.98	1,822.7	127.3	416.0	435.1	0.00	0.00	
2,000.0	22.72	72.98	1,914.9	138.6	453.0	473.7	0.00	0.00	
2,100.0	22.72	72.98	2,007.1	149.9	489.9	512.3	0.00	0.00	
2,200.0	22.72	72.98	2,099.4	161.2	526.8	550.9	0.00	0.00	
2,300.0	22.72	72.98	2,191.6	172.5	563.8	589.6	0.00	0.00	
2,400.0	22.72	72.98	2,283.9	183.8	600.7	628.2	0.00	0.00	
2,500.0	22.72	72.98	2,376.1	195.1	637.6	666.8	0.00	0.00	
2,600.0	22.72	72.98	2,468.3	206.4	674.6	705.4	0.00	0.00	
2,700.0	22.72	72.98	2,560.6	217.7	711.5	744.1	0.00	0.00	
2,800.0	22.72	72.98	2,652.8	229.1	748.4	782.7	0.00	0.00	
2,813.2	22.72	72.98	2,665.0	230.5	753.3	787.8	0.00	0.00	MESAVERDE (TVD)
2,900.0	22.72	72.98	2,745.1	240.4	785.4	821.3	0.00	0.00	
3,000.0	22.72	72.98	2,837.3	251.7	822.3	859.9	0.00	0.00	
3,097.6	22.72	72.98	2,927.3	262.7	858.4	897.6	0.00	0.00	Start 3° Drop
3,100.0	22.65	72.98	2,929.5	263.0	859.2	898.6	3.04	-3.04	
3,200.0	19.65	72.98	3,022.8	273.5	893.7	934.6	3.00	-3.00	
3,300.0	16.65	72.98	3,117.8	282.6	923.5	965.8	3.00	-3.00	
3,400.0	13.65	72.98	3,214.3	290.3	948.5	991.9	3.00	-3.00	
3,500.0	10.65	72.98	3,312.1	296.4	968.6	1,013.0	3.00	-3.00	
3,600.0	7.65	72.98	3,410.8	301.1	983.8	1,028.9	3.00	-3.00	
3,700.0	4.65	72.98	3,510.2	304.2	994.1	1,039.6	3.00	-3.00	
3,800.0	1.65	72.98	3,610.0	305.8	999.3	1,045.1	3.00	-3.00	
3,855.0	0.00	0.00	3,665.0	306.1	1,000.1	1,045.9	3.00	-3.00	EOD; Vertical - TOP GAS (TVD)
3,900.0	0.00	0.00	3,710.0	306.1	1,000.1	1,045.9	0.00	0.00	
4,000.0	0.00	0.00	3,810.0	306.1	1,000.1	1,045.9	0.00	0.00	
4,100.0	0.00	0.00	3,910.0	306.1	1,000.1	1,045.9	0.00	0.00	
4,200.0	0.00	0.00	4,010.0	306.1	1,000.1	1,045.9	0.00	0.00	
4,300.0	0.00	0.00	4,110.0	306.1	1,000.1	1,045.9	0.00	0.00	
4,400.0	0.00	0.00	4,210.0	306.1	1,000.1	1,045.9	0.00	0.00	
4,500.0	0.00	0.00	4,310.0	306.1	1,000.1	1,045.9	0.00	0.00	
4,600.0	0.00	0.00	4,410.0	306.1	1,000.1	1,045.9	0.00	0.00	
4,700.0	0.00	0.00	4,510.0	306.1	1,000.1	1,045.9	0.00	0.00	

Cathedral Energy Services

Planning Report

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Company:	Caerus Oil & Gas (NAD 27)	TVD Reference:	WELL @ 5117.8ft (Original Well Elev)
Project:	Garfield County, CO	MD Reference:	WELL @ 5117.8ft (Original Well Elev)
Site:	S14-T7S-R96W	North Reference:	True
Well:	Nolte 14A-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	4,610.0	306.1	1,000.1	1,045.9	0.00	0.00	
4,900.0	0.00	0.00	4,710.0	306.1	1,000.1	1,045.9	0.00	0.00	
5,000.0	0.00	0.00	4,810.0	306.1	1,000.1	1,045.9	0.00	0.00	
5,100.0	0.00	0.00	4,910.0	306.1	1,000.1	1,045.9	0.00	0.00	
5,200.0	0.00	0.00	5,010.0	306.1	1,000.1	1,045.9	0.00	0.00	
5,300.0	0.00	0.00	5,110.0	306.1	1,000.1	1,045.9	0.00	0.00	
5,400.0	0.00	0.00	5,210.0	306.1	1,000.1	1,045.9	0.00	0.00	
5,500.0	0.00	0.00	5,310.0	306.1	1,000.1	1,045.9	0.00	0.00	
5,600.0	0.00	0.00	5,410.0	306.1	1,000.1	1,045.9	0.00	0.00	
5,700.0	0.00	0.00	5,510.0	306.1	1,000.1	1,045.9	0.00	0.00	
5,760.0	0.00	0.00	5,570.0	306.1	1,000.1	1,045.9	0.00	0.00	ROLLINS (TVD)
5,800.0	0.00	0.00	5,610.0	306.1	1,000.1	1,045.9	0.00	0.00	
5,900.0	0.00	0.00	5,710.0	306.1	1,000.1	1,045.9	0.00	0.00	
6,000.0	0.00	0.00	5,810.0	306.1	1,000.1	1,045.9	0.00	0.00	
6,060.0	0.00	0.00	5,870.0	306.1	1,000.1	1,045.9	0.00	0.00	PBHL @ 6,060' MD

Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Nolte 14A-13 PBHL - hit/miss target - Shape	0.00	0.00	5,870.0	305.8	1,009.3	592,914.47	1,275,595.42	39.433269	-108.064983
- plan misses target center by 9.2ft at 6060.0ft MD (5870.0 TVD, 306.1 N, 1000.1 E)									
- Circle (radius 50.0)									
Nolte 14A-13 PBHL 2 - plan hits target center - Circle (radius 50.0)	0.00	0.00	5,870.0	306.1	1,000.1	592,915.03	1,275,586.22	39.433270	-108.065016

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
1,000.0	990.2	9 5/8"	9.625	12.250

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
2,813.2	2,665.0	MESAVERDE (TVD)		0.00	
3,855.0	3,665.0	TOP GAS (TVD)		0.00	
5,760.0	5,570.0	ROLLINS (TVD)		0.00	

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 14A-13
Wellbore: DD
Design: Plan #3

Local Co-ordinate Reference: Well Nolte 14A-13
TVD Reference: WELL @ 5117.8ft (Original Well Elev)
MD Reference: WELL @ 5117.8ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
400.0	400.0	0.0	0.0	KOP @ 400 'MD
1,157.4	1,137.7	43.4	141.7	EOB; 22.72° Inc
3,097.6	2,927.3	262.7	858.4	Start 3° Drop
3,855.0	3,665.0	306.1	1,000.1	EOD; Vertical
6,060.0	5,870.0	306.1	1,000.1	PBHL @ 6,060' MD

Caerus Oil & Gas (NAD 27)

Garfield County, CO

S14-T7S-R96W

Nolte 14A-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 14A-13
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.8ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.8ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 14A-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	6,060.0	Plan #3 (DD)	MWD	Geolink MWD

Summary	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Site Name						
Offset Well - Wellbore - Design						
S14-T7S-R96W						
Nolte 11A-24 - DD - Plan #3	300.0	300.0	32.0	31.0	33.582	CC, ES
Nolte 11A-24 - DD - Plan #3	500.0	498.5	37.6	35.9	22.296	SF
Nolte 11B-24 - DD - Plan #3	200.0	200.0	40.0	39.4	66.239	CC, ES
Nolte 11B-24 - DD - Plan #3	500.0	495.3	54.6	52.9	31.527	SF
Nolte 11C-24 - DD - Plan #3	244.4	234.7	48.0	47.2	63.220	CC, ES
Nolte 11C-24 - DD - Plan #3	600.0	583.0	72.0	69.9	33.983	SF
Nolte 13A-13 - DD - Plan #3	200.0	200.0	18.9	18.3	31.261	CC, ES
Nolte 13A-13 - DD - Plan #3	400.0	397.7	27.9	26.6	20.662	SF
Nolte 13B-13 - DD - Plan #3	235.7	235.7	12.8	12.1	17.596	CC, ES
Nolte 13B-13 - DD - Plan #3	400.0	399.2	16.4	15.1	12.487	SF
Nolte 13C-13 - DD - Plan #3	200.0	199.8	16.0	15.4	26.545	CC, ES
Nolte 13C-13 - DD - Plan #3	6,060.0	6,178.2	659.8	617.5	15.587	SF
Nolte 13D-13 - DD - Plan #3	300.0	300.0	8.0	7.0	8.403	CC, ES
Nolte 13D-13 - DD - Plan #3	6,060.0	6,102.5	329.9	287.5	7.780	SF
Nolte 14B-13 - DD - Plan #3	400.0	400.0	8.0	6.7	6.144	CC, ES
Nolte 14B-13 - DD - Plan #3	500.0	500.0	10.0	8.4	6.062	SF
Nolte 14C-13 - DD - Plan #3	400.0	400.0	15.5	14.2	11.916	CC, ES
Nolte 14C-13 - DD - Plan #3	500.0	500.0	17.5	15.8	10.575	SF
Nolte 14D-13 - DD - Plan #3	400.0	400.0	24.0	22.7	18.428	CC, ES
Nolte 14D-13 - DD - Plan #3	500.0	499.8	26.1	24.4	15.736	SF
Nolte 43A-14 - DD - Plan #3	300.0	300.0	10.0	9.0	10.499	CC, ES
Nolte 43A-14 - DD - Plan #3	400.0	399.6	11.8	10.5	9.037	SF
Nolte 43B-14 - DD - Plan #3	343.3	343.3	12.8	11.7	11.603	CC
Nolte 43B-14 - DD - Plan #3	400.0	400.0	12.8	11.5	9.871	ES, SF
Nolte 43C-14 - DD - Plan #3	400.0	400.0	18.8	17.5	14.474	CC, ES
Nolte 43C-14 - DD - Plan #3	500.0	500.0	21.2	19.5	12.786	SF
Nolte 44A-14 - DD - Plan #3	400.0	400.0	26.0	24.7	19.949	CC, ES
Nolte 44A-14 - DD - Plan #3	500.0	500.0	28.3	26.7	17.172	SF
Nolte 44B-14 - DD - Plan #3	400.0	400.0	33.5	32.2	25.729	CC, ES
Nolte 44B-14 - DD - Plan #3	500.0	500.0	35.8	34.2	21.704	SF
Nolte 44C-14 - DD - Plan #3	400.0	400.0	41.2	39.9	31.640	CC, ES
Nolte 44C-14 - DD - Plan #3	500.0	498.1	45.6	43.9	27.611	SF
Nolte SWD 1-14 - DD - Plan #3	400.0	400.0	49.0	47.7	37.620	CC, ES
Nolte SWD 1-14 - DD - Plan #3	600.0	599.6	58.0	56.0	28.950	SF

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

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Anticollision Report

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Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.8ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.8ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 14A-13	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S14-T7S-R96W - Nolte 11A-24 - DD - Plan #3													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance		Distance		Total	Separation	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-152.50	-28.4	-14.8	32.0					
100.0	100.0	100.0	100.0	0.1	0.1	-152.50	-28.4	-14.8	32.0	31.7	0.25	125.714		
200.0	200.0	200.0	200.0	0.3	0.3	-152.50	-28.4	-14.8	32.0	31.4	0.60	53.005		
300.0	300.0	300.0	300.0	0.5	0.5	-152.50	-28.4	-14.8	32.0	31.0	0.95	33.582 CC, ES		
400.0	400.0	399.5	399.4	0.7	0.7	-156.85	-30.2	-12.9	32.8	31.5	1.30	25.217		
500.0	500.0	498.5	498.1	0.8	0.9	121.99	-35.5	-7.3	37.6	35.9	1.69	22.296 SF		
600.0	599.6	596.7	595.5	1.0	1.1	116.13	-44.2	1.9	48.1	46.0	2.12	22.724		
700.0	698.8	693.7	690.9	1.3	1.5	112.87	-56.2	14.6	64.0	61.4	2.64	24.295		
800.0	797.1	789.2	783.9	1.6	1.9	111.26	-71.2	30.5	85.0	81.7	3.27	26.012		
900.0	894.3	882.9	873.8	2.1	2.4	110.48	-89.1	49.3	110.8	106.8	4.03	27.498		
1,000.0	990.2	974.4	960.5	2.6	2.9	110.07	-109.4	70.8	141.2	136.3	4.92	28.676		
1,100.0	1,084.4	1,063.7	1,043.5	3.2	3.5	109.78	-132.0	94.6	176.0	170.1	5.95	29.586		
1,200.0	1,177.0	1,150.5	1,122.7	3.9	4.2	109.89	-156.5	120.5	215.0	207.9	7.08	30.343		
1,300.0	1,269.2	1,235.3	1,198.3	4.6	4.9	109.85	-182.7	148.2	256.6	248.3	8.28	30.994		
1,400.0	1,361.5	1,317.9	1,270.4	5.3	5.7	109.20	-210.5	177.5	300.6	291.1	9.50	31.635		
1,500.0	1,453.7	1,400.0	1,340.2	6.0	6.5	108.18	-240.3	208.9	346.9	336.1	10.75	32.261		
1,600.0	1,546.0	1,483.7	1,410.0	6.8	7.4	107.05	-271.9	242.4	394.9	382.8	12.02	32.858		
1,700.0	1,638.2	1,571.1	1,483.0	7.5	8.3	106.12	-305.1	277.4	443.0	429.7	13.31	33.285		
1,800.0	1,730.4	1,658.6	1,555.9	8.2	9.2	105.37	-338.3	312.4	491.2	476.6	14.60	33.640		
1,900.0	1,822.7	1,746.0	1,628.9	9.0	10.1	104.75	-371.4	347.4	539.5	523.6	15.90	33.938		
2,000.0	1,914.9	1,833.5	1,701.8	9.7	11.0	104.23	-404.6	382.4	587.8	570.6	17.19	34.193		
2,100.0	2,007.1	1,920.9	1,774.8	10.4	11.9	103.79	-437.8	417.5	636.1	617.6	18.48	34.412		
2,200.0	2,099.4	2,008.4	1,847.7	11.2	12.8	103.42	-470.9	452.5	684.4	664.7	19.78	34.603		
2,300.0	2,191.6	2,095.8	1,920.7	11.9	13.8	103.09	-504.1	487.5	732.8	711.7	21.08	34.770		
2,400.0	2,283.9	2,183.3	1,993.6	12.6	14.7	102.80	-537.2	522.5	781.2	758.8	22.37	34.918		
2,500.0	2,376.1	2,270.7	2,066.6	13.4	15.6	102.55	-570.4	557.5	829.6	806.0	23.67	35.050		
2,600.0	2,468.3	2,358.2	2,139.5	14.1	16.5	102.33	-603.6	592.5	878.0	853.1	24.97	35.169		
2,700.0	2,560.6	2,445.6	2,212.5	14.8	17.4	102.13	-636.7	627.5	926.5	900.2	26.26	35.275		
2,800.0	2,652.8	2,533.0	2,285.4	15.6	18.3	101.94	-669.9	662.5	974.9	947.3	27.56	35.372		
2,900.0	2,745.1	2,620.5	2,358.4	16.3	19.2	101.78	-703.0	697.5	1,023.3	994.5	28.86	35.460		
3,000.0	2,837.3	2,707.9	2,431.3	17.1	20.2	101.63	-736.2	732.6	1,071.8	1,041.6	30.16	35.541		
3,100.0	2,929.5	2,795.4	2,504.3	17.8	21.1	101.53	-769.4	767.6	1,120.2	1,088.8	31.46	35.605		
3,200.0	3,022.8	2,896.6	2,588.9	18.4	22.1	102.81	-807.6	807.9	1,168.1	1,135.0	33.09	35.306		
3,300.0	3,117.8	3,054.9	2,725.7	19.0	23.5	103.65	-862.2	865.6	1,211.5	1,176.7	34.81	34.800		
3,400.0	3,214.3	3,223.3	2,878.0	19.4	24.8	104.32	-911.5	917.7	1,248.4	1,212.0	36.34	34.350		
3,500.0	3,312.1	3,400.8	3,044.7	19.8	25.9	104.85	-953.3	961.8	1,278.1	1,240.4	37.63	33.967		
3,600.0	3,410.8	3,586.0	3,223.9	20.1	26.7	105.28	-985.4	995.7	1,300.1	1,261.5	38.62	33.666		
3,700.0	3,510.2	3,776.7	3,412.2	20.2	27.1	105.62	-1,005.8	1,017.2	1,313.9	1,274.6	39.30	33.436		
3,800.0	3,610.0	3,970.3	3,605.4	20.3	27.3	105.89	-1,013.2	1,025.1	1,319.3	1,279.7	39.66	33.264		
3,900.0	3,710.0	4,074.9	3,710.0	20.4	27.4	178.91	-1,013.3	1,025.1	1,319.6	1,279.8	39.80	33.155		
4,000.0	3,810.0	4,174.9	3,810.0	20.5	27.4	178.91	-1,013.3	1,025.1	1,319.6	1,279.6	39.92	33.053		
4,100.0	3,910.0	4,274.9	3,910.0	20.5	27.5	178.91	-1,013.3	1,025.1	1,319.6	1,279.5	40.05	32.950		
4,200.0	4,010.0	4,374.9	4,010.0	20.6	27.5	178.91	-1,013.3	1,025.1	1,319.6	1,279.4	40.18	32.845		
4,300.0	4,110.0	4,474.9	4,110.0	20.6	27.6	178.91	-1,013.3	1,025.1	1,319.6	1,279.3	40.31	32.738		
4,400.0	4,210.0	4,574.9	4,210.0	20.7	27.6	178.91	-1,013.3	1,025.1	1,319.6	1,279.1	40.44	32.631		
4,500.0	4,310.0	4,674.9	4,310.0	20.8	27.7	178.91	-1,013.3	1,025.1	1,319.6	1,279.0	40.58	32.521		
4,600.0	4,410.0	4,774.9	4,410.0	20.8	27.7	178.91	-1,013.3	1,025.1	1,319.6	1,278.8	40.71	32.411		
4,700.0	4,510.0	4,874.9	4,510.0	20.9	27.8	178.91	-1,013.3	1,025.1	1,319.6	1,278.7	40.85	32.299		
4,800.0	4,610.0	4,974.9	4,610.0	21.0	27.8	178.91	-1,013.3	1,025.1	1,319.6	1,278.6	41.00	32.187		
4,900.0	4,710.0	5,074.9	4,710.0	21.0	27.9	178.91	-1,013.3	1,025.1	1,319.6	1,278.4	41.14	32.073		
5,000.0	4,810.0	5,174.9	4,810.0	21.1	27.9	178.91	-1,013.3	1,025.1	1,319.6	1,278.3	41.29	31.958		

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 14A-13
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.8ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.8ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 14A-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		
5,100.0	4,910.0	5,274.9	4,910.0	21.2	28.0	178.91	-1,013.3	1,025.1	1,319.6	1,278.1	41.44	31.842			
5,200.0	5,010.0	5,374.9	5,010.0	21.3	28.0	178.91	-1,013.3	1,025.1	1,319.6	1,278.0	41.59	31.724			
5,300.0	5,110.0	5,474.9	5,110.0	21.3	28.1	178.91	-1,013.3	1,025.1	1,319.6	1,277.8	41.75	31.606			
5,400.0	5,210.0	5,574.9	5,210.0	21.4	28.2	178.91	-1,013.3	1,025.1	1,319.6	1,277.7	41.91	31.488			
5,500.0	5,310.0	5,674.9	5,310.0	21.5	28.2	178.91	-1,013.3	1,025.1	1,319.6	1,277.5	42.07	31.368			
5,600.0	5,410.0	5,774.9	5,410.0	21.6	28.3	178.91	-1,013.3	1,025.1	1,319.6	1,277.3	42.23	31.247			
5,700.0	5,510.0	5,874.9	5,510.0	21.6	28.3	178.91	-1,013.3	1,025.1	1,319.6	1,277.2	42.39	31.126			
5,800.0	5,610.0	5,974.9	5,610.0	21.7	28.4	178.91	-1,013.3	1,025.1	1,319.6	1,277.0	42.56	31.004			
5,900.0	5,710.0	6,074.9	5,710.0	21.8	28.5	178.91	-1,013.3	1,025.1	1,319.6	1,276.8	42.73	30.882			
5,966.7	5,776.7	6,141.6	5,776.7	21.9	28.5	178.91	-1,013.3	1,025.1	1,319.6	1,276.7	42.84	30.800			
6,000.0	5,810.0	6,174.9	5,810.0	21.9	28.5	178.91	-1,013.3	1,025.1	1,319.6	1,276.7	42.90	30.759			
6,060.0	5,870.0	6,174.9	5,810.0	21.9	28.5	178.91	-1,013.3	1,025.1	1,320.9	1,278.0	42.95	30.754			

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 14A-13
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.8ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.8ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 14A-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	0.0	0.0	0.0	0.0	-152.49	-35.5	-18.5	40.0						
100.0	100.0	100.0	100.0	0.1	0.1	-152.49	-35.5	-18.5	40.0	39.7	0.25	157.040			
200.0	200.0	200.0	200.0	0.3	0.3	-152.49	-35.5	-18.5	40.0	39.4	0.60	66.239 CC, ES			
300.0	300.0	299.1	299.0	0.5	0.5	-155.78	-37.5	-16.9	41.1	40.1	0.95	43.181			
400.0	400.0	397.6	397.3	0.7	0.7	-164.52	-43.4	-12.0	45.1	43.8	1.30	34.603			
500.0	500.0	495.3	494.1	0.8	1.0	113.66	-53.1	-4.1	54.6	52.9	1.73	31.527 SF			
600.0	599.6	591.6	588.8	1.0	1.3	108.68	-66.5	6.8	70.5	68.3	2.17	32.413			
700.0	698.8	686.2	680.9	1.3	1.7	106.43	-83.2	20.4	91.8	89.1	2.69	34.103			
800.0	797.1	778.7	769.9	1.6	2.2	105.63	-102.9	36.5	118.4	115.0	3.32	35.677			
900.0	894.3	868.7	855.2	2.1	2.8	105.48	-125.3	54.7	149.8	145.7	4.06	36.885			
1,000.0	990.2	956.1	936.5	2.6	3.4	105.56	-150.0	74.8	185.9	181.0	4.92	37.751			
1,100.0	1,084.4	1,040.6	1,013.8	3.2	4.0	105.65	-176.6	96.5	226.5	220.6	5.90	38.367			
1,200.0	1,177.0	1,122.2	1,086.8	3.9	4.7	106.19	-204.8	119.4	271.3	264.3	6.98	38.849			
1,300.0	1,269.2	1,200.0	1,154.9	4.6	5.4	106.82	-233.9	143.1	319.0	310.9	8.10	39.357			
1,400.0	1,361.5	1,278.0	1,221.6	5.3	6.2	106.90	-265.1	168.6	369.3	360.0	9.26	39.859			
1,500.0	1,453.7	1,352.1	1,283.5	6.0	7.0	106.62	-296.8	194.4	421.9	411.5	10.42	40.500			
1,600.0	1,546.0	1,423.5	1,341.5	6.8	7.8	106.12	-329.1	220.7	476.9	465.3	11.57	41.228			
1,700.0	1,638.2	1,500.0	1,401.9	7.5	8.7	105.43	-365.5	250.3	534.2	521.4	12.76	41.865			
1,800.0	1,730.4	1,561.7	1,449.3	8.2	9.4	104.78	-396.1	275.3	593.4	579.5	13.86	42.816			
1,900.0	1,822.7	1,641.5	1,510.1	9.0	10.4	104.03	-436.1	307.9	653.3	638.3	15.07	43.352			
2,000.0	1,914.9	1,721.3	1,571.0	9.7	11.4	103.41	-476.1	340.4	713.3	697.1	16.28	43.813			
2,100.0	2,007.1	1,801.0	1,631.8	10.4	12.3	102.89	-516.1	373.0	773.4	755.9	17.49	44.214			
2,200.0	2,099.4	1,880.8	1,692.7	11.2	13.3	102.44	-556.1	405.6	833.5	814.8	18.70	44.564			
2,300.0	2,191.6	1,960.6	1,753.5	11.9	14.3	102.05	-596.1	438.2	893.6	873.7	19.91	44.872			
2,400.0	2,283.9	2,040.3	1,814.3	12.6	15.3	101.71	-636.1	470.8	953.8	932.6	21.13	45.147			
2,500.0	2,376.1	2,120.1	1,875.2	13.4	16.2	101.41	-676.1	503.3	1,013.9	991.6	22.34	45.393			
2,600.0	2,468.3	2,199.9	1,936.0	14.1	17.2	101.14	-716.1	535.9	1,074.1	1,050.6	23.55	45.614			
2,700.0	2,560.6	2,279.6	1,996.9	14.8	18.2	100.90	-756.1	568.5	1,134.3	1,109.6	24.76	45.814			
2,800.0	2,652.8	2,359.4	2,057.7	15.6	19.2	100.68	-796.1	601.1	1,194.5	1,168.5	25.97	45.996			
2,900.0	2,745.1	2,439.2	2,118.6	16.3	20.1	100.49	-836.1	633.7	1,254.7	1,227.6	27.18	46.162			
3,000.0	2,837.3	2,518.9	2,179.4	17.1	21.1	100.31	-876.1	666.2	1,315.0	1,286.6	28.39	46.314			

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 14A-13
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.8ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.8ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 14A-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	0.0	0.0	0.0	0.0	-152.47	-42.5	-22.2	49.0						
100.0	100.0	90.3	90.3	0.1	0.1	-152.47	-42.5	-22.2	48.0	47.7	0.26	186.188			
200.0	200.0	190.3	190.3	0.3	0.3	-152.47	-42.5	-22.2	48.0	47.4	0.60	79.452			
244.4	244.4	234.7	234.7	0.4	0.4	-152.47	-42.5	-22.2	48.0	47.2	0.76	63.220	CC, ES		
300.0	300.0	289.8	289.8	0.5	0.5	-152.91	-42.9	-21.9	48.2	47.2	0.95	50.604			
400.0	400.0	388.4	388.3	0.7	0.7	-157.46	-46.7	-19.4	50.6	49.3	1.30	38.922			
500.0	500.0	486.3	485.7	0.8	0.9	123.41	-54.7	-14.1	58.1	56.4	1.69	34.307			
600.0	599.6	583.0	581.3	1.0	1.2	119.25	-66.6	-6.1	72.0	69.9	2.12	33.983	SF		
700.0	698.8	678.0	674.5	1.3	1.5	116.92	-82.3	4.4	92.1	89.5	2.62	35.157			
800.0	797.1	771.0	764.5	1.6	2.0	115.74	-101.3	17.1	118.0	114.8	3.22	36.670			
900.0	894.3	861.4	851.0	2.1	2.5	115.14	-123.2	31.8	149.3	145.4	3.92	38.068			
1,000.0	990.2	949.0	933.5	2.6	3.0	114.78	-147.7	48.1	185.9	181.1	4.74	39.234			
1,100.0	1,084.4	1,033.5	1,011.7	3.2	3.6	114.47	-174.3	65.9	227.4	221.8	5.66	40.183			
1,200.0	1,177.0	1,114.8	1,085.5	3.9	4.2	114.63	-202.5	84.8	273.6	266.9	6.67	40.996			
1,300.0	1,269.2	1,193.6	1,155.7	4.6	4.9	114.96	-232.4	104.8	322.5	314.8	7.74	41.669			
1,400.0	1,361.5	1,269.9	1,222.1	5.3	5.6	114.79	-263.6	125.6	373.9	365.1	8.83	42.324			
1,500.0	1,453.7	1,343.7	1,284.9	6.0	6.4	114.33	-295.8	147.2	427.6	417.6	9.94	43.024			
1,600.0	1,546.0	1,414.7	1,343.9	6.8	7.1	113.68	-328.8	169.2	483.5	472.4	11.04	43.777			
1,700.0	1,638.2	1,483.1	1,399.2	7.5	7.9	112.94	-362.1	191.5	541.5	529.3	12.15	44.556			
1,800.0	1,730.4	1,548.8	1,450.9	8.2	8.6	112.15	-395.7	214.0	601.6	588.3	13.26	45.367			
1,900.0	1,822.7	1,611.7	1,499.2	9.0	9.4	111.35	-429.3	236.4	663.7	649.3	14.35	46.237			
2,000.0	1,914.9	1,671.9	1,544.2	9.7	10.2	110.54	-462.6	258.7	727.7	712.3	15.44	47.121			
2,100.0	2,007.1	1,729.6	1,586.0	10.4	10.9	109.76	-495.6	280.8	793.6	777.1	16.52	48.043			
2,200.0	2,099.4	1,784.7	1,624.8	11.2	11.7	109.00	-528.1	302.5	861.2	843.6	17.58	48.994			
2,300.0	2,191.6	1,837.3	1,660.8	11.9	12.4	108.27	-560.0	323.8	930.5	911.9	18.63	49.955			
2,400.0	2,283.9	1,900.0	1,702.3	12.6	13.3	107.40	-599.1	350.0	1,001.5	981.7	19.74	50.744			
2,500.0	2,376.1	1,935.4	1,725.0	13.4	13.8	106.91	-621.7	365.1	1,073.7	1,053.0	20.68	51.931			
2,600.0	2,468.3	1,981.2	1,753.7	14.1	14.5	106.28	-651.3	384.9	1,147.5	1,125.8	21.68	52.935			
2,700.0	2,560.6	2,024.9	1,780.2	14.8	15.2	105.68	-680.2	404.2	1,222.6	1,199.9	22.67	53.939			
2,800.0	2,652.8	2,066.5	1,804.8	15.6	15.8	105.11	-708.1	422.9	1,298.9	1,275.3	23.64	54.944			

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 14A-13
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.8ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.8ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 14A-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				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-4.47	18.8	-1.5	18.9					
100.0	100.0	100.0	100.0	0.1	0.1	-4.47	18.8	-1.5	18.9	18.6	0.25	74.142		
200.0	200.0	200.0	200.0	0.3	0.3	-4.47	18.8	-1.5	18.9	18.3	0.60	31.261	CC, ES	
300.0	300.0	299.1	299.1	0.5	0.5	-0.33	21.0	-0.1	21.0	20.1	0.96	21.917		
400.0	400.0	397.7	397.4	0.7	0.7	8.04	27.5	3.9	27.9	26.6	1.35	20.662	SF	
500.0	500.0	495.5	494.3	0.8	1.0	-60.61	38.2	10.5	38.7	37.1	1.67	23.246		
600.0	599.6	592.5	589.7	1.0	1.3	-61.24	53.0	19.6	51.8	49.8	2.06	25.153		
700.0	698.8	688.5	683.1	1.3	1.8	-63.78	71.7	31.1	67.2	64.7	2.54	26.525		
800.0	797.1	783.3	774.3	1.6	2.3	-66.89	94.1	44.8	85.1	82.0	3.13	27.160		
900.0	894.3	876.9	862.8	2.1	2.8	-70.00	119.9	60.7	105.7	101.8	3.89	27.145		
1,000.0	990.2	969.1	948.5	2.6	3.5	-72.83	148.9	78.6	129.0	124.2	4.83	26.722		
1,100.0	1,084.4	1,059.8	1,031.1	3.2	4.2	-75.31	180.9	98.2	155.1	149.1	5.94	26.121		
1,200.0	1,177.0	1,149.0	1,110.5	3.9	4.9	-77.66	215.6	119.6	184.0	176.9	7.19	25.588		
1,300.0	1,269.2	1,236.6	1,186.5	4.6	5.7	-79.19	252.6	142.3	216.5	208.0	8.48	25.513		
1,400.0	1,361.5	1,322.3	1,258.8	5.3	6.6	-79.66	291.7	166.4	252.1	242.3	9.76	25.823		
1,500.0	1,453.7	1,405.8	1,327.3	6.0	7.5	-79.48	332.4	191.4	290.8	279.7	11.02	26.392		
1,600.0	1,546.0	1,486.9	1,391.7	6.8	8.4	-78.89	374.3	217.2	332.4	320.1	12.25	27.134		
1,700.0	1,638.2	1,565.4	1,452.0	7.5	9.4	-78.06	417.1	243.5	376.8	363.4	13.45	28.020		
1,800.0	1,730.4	1,641.2	1,508.3	8.2	10.3	-77.10	460.4	270.2	424.1	409.5	14.60	29.045		
1,900.0	1,822.7	1,727.2	1,570.8	9.0	11.4	-76.04	510.7	301.1	472.9	457.1	15.79	29.950		
2,000.0	1,914.9	1,814.2	1,634.0	9.7	12.5	-75.17	561.6	332.4	521.9	504.9	16.99	30.725		
2,100.0	2,007.1	1,901.1	1,697.1	10.4	13.6	-74.45	612.5	363.7	571.0	552.8	18.18	31.403		
2,200.0	2,099.4	1,988.0	1,760.3	11.2	14.8	-73.84	663.4	395.0	620.1	600.7	19.38	31.999		
2,300.0	2,191.6	2,075.0	1,823.5	11.9	15.9	-73.33	714.2	426.3	669.2	648.7	20.57	32.527		
2,400.0	2,283.9	2,161.9	1,886.6	12.6	17.0	-72.88	765.1	457.6	718.4	696.7	21.77	32.999		
2,500.0	2,376.1	2,248.8	1,949.8	13.4	18.1	-72.49	816.0	488.9	767.7	744.7	22.97	33.422		
2,600.0	2,468.3	2,335.8	2,013.0	14.1	19.2	-72.14	866.9	520.2	816.9	792.7	24.17	33.804		
2,700.0	2,560.6	2,422.7	2,076.1	14.8	20.3	-71.84	917.7	551.5	866.2	840.8	25.36	34.150		
2,800.0	2,652.8	2,509.6	2,139.3	15.6	21.4	-71.57	968.6	582.8	915.5	888.9	26.56	34.466		
2,900.0	2,745.1	2,596.6	2,202.5	16.3	22.5	-71.32	1,019.5	614.1	964.8	937.0	27.76	34.754		
3,000.0	2,837.3	2,683.5	2,265.6	17.1	23.7	-71.10	1,070.3	645.4	1,014.1	985.1	28.96	35.018		
3,100.0	2,929.5	2,770.4	2,328.8	17.8	24.8	-70.94	1,121.2	676.6	1,063.4	1,033.2	30.17	35.246		
3,200.0	3,022.8	2,856.8	2,391.5	18.4	25.9	-72.25	1,171.8	707.7	1,113.5	1,081.7	31.82	34.991		
3,300.0	3,117.8	3,012.9	2,508.5	19.0	27.8	-72.98	1,259.9	761.9	1,162.9	1,129.3	33.59	34.617		
3,400.0	3,214.3	3,197.5	2,656.9	19.4	29.7	-73.43	1,353.1	819.3	1,207.1	1,171.8	35.24	34.254		
3,500.0	3,312.1	3,396.3	2,827.9	19.8	31.5	-73.70	1,439.4	872.4	1,245.0	1,208.4	36.65	33.968		
3,600.0	3,410.8	3,608.8	3,021.1	20.1	33.0	-73.83	1,514.4	918.5	1,276.0	1,238.2	37.80	33.760		
3,700.0	3,510.2	3,833.3	3,234.7	20.2	34.2	-73.84	1,573.3	954.7	1,299.2	1,260.6	38.63	33.633		
3,800.0	3,610.0	4,067.3	3,464.2	20.3	34.9	-73.74	1,611.5	978.2	1,313.9	1,274.8	39.12	33.584		
3,900.0	3,710.0	4,306.9	3,703.0	20.4	35.2	-0.57	1,625.5	986.9	1,319.6	1,280.2	39.32	33.561		
4,000.0	3,810.0	4,413.9	3,810.0	20.5	35.2	-0.57	1,625.6	986.9	1,319.6	1,280.1	39.45	33.449		
4,100.0	3,910.0	4,513.9	3,910.0	20.5	35.2	-0.57	1,625.6	986.9	1,319.6	1,280.0	39.58	33.339		
4,200.0	4,010.0	4,613.9	4,010.0	20.6	35.3	-0.57	1,625.6	986.9	1,319.6	1,279.9	39.71	33.227		
4,300.0	4,110.0	4,713.9	4,110.0	20.6	35.3	-0.57	1,625.6	986.9	1,319.6	1,279.7	39.85	33.114		
4,400.0	4,210.0	4,813.9	4,210.0	20.7	35.4	-0.57	1,625.6	986.9	1,319.6	1,279.6	39.99	33.000		
4,500.0	4,310.0	4,913.9	4,310.0	20.8	35.4	-0.57	1,625.6	986.9	1,319.6	1,279.4	40.13	32.884		
4,600.0	4,410.0	5,013.9	4,410.0	20.8	35.4	-0.57	1,625.6	986.9	1,319.6	1,279.3	40.27	32.767		
4,700.0	4,510.0	5,113.9	4,510.0	20.9	35.5	-0.57	1,625.6	986.9	1,319.6	1,279.2	40.42	32.649		
4,800.0	4,610.0	5,213.9	4,610.0	21.0	35.5	-0.57	1,625.6	986.9	1,319.6	1,279.0	40.57	32.529		
4,900.0	4,710.0	5,313.9	4,710.0	21.0	35.6	-0.57	1,625.6	986.9	1,319.6	1,278.9	40.72	32.409		
5,000.0	4,810.0	5,413.9	4,810.0	21.1	35.6	-0.57	1,625.6	986.9	1,319.6	1,278.7	40.87	32.287		
5,100.0	4,910.0	5,513.9	4,910.0	21.2	35.7	-0.57	1,625.6	986.9	1,319.6	1,278.6	41.03	32.165		

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 14A-13
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.8ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.8ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 14A-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		
5,200.0	5,010.0	5,613.9	5,010.0	21.3	35.7	-0.57	1,625.6	986.9	1,319.6	1,278.4	41.18	32.041		
5,300.0	5,110.0	5,713.9	5,110.0	21.3	35.8	-0.57	1,625.6	986.9	1,319.6	1,278.2	41.34	31.917		
5,400.0	5,210.0	5,813.9	5,210.0	21.4	35.8	-0.57	1,625.6	986.9	1,319.6	1,278.1	41.51	31.792		
5,500.0	5,310.0	5,913.9	5,310.0	21.5	35.9	-0.57	1,625.6	986.9	1,319.6	1,277.9	41.67	31.666		
5,600.0	5,410.0	6,013.9	5,410.0	21.6	35.9	-0.57	1,625.6	986.9	1,319.6	1,277.7	41.84	31.540		
5,700.0	5,510.0	6,113.9	5,510.0	21.6	36.0	-0.57	1,625.6	986.9	1,319.6	1,277.6	42.01	31.412		
5,800.0	5,610.0	6,213.9	5,610.0	21.7	36.0	-0.57	1,625.6	986.9	1,319.6	1,277.4	42.18	31.285		
5,900.0	5,710.0	6,313.9	5,710.0	21.8	36.1	-0.57	1,625.6	986.9	1,319.6	1,277.2	42.35	31.156		
6,000.0	5,810.0	6,413.9	5,810.0	21.9	36.1	-0.57	1,625.6	986.9	1,319.6	1,277.0	42.53	31.027		
6,060.0	5,870.0	6,473.9	5,870.0	21.9	36.2	-0.57	1,625.6	986.9	1,319.6	1,276.9	42.64	30.950		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 14A-13
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.8ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.8ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 14A-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	0.0	0.0	0.0	0.0	-23.80	11.7	-5.2	12.8						
100.0	100.0	100.0	100.0	0.1	0.1	-23.80	11.7	-5.2	12.8	12.6	0.25	50.365			
200.0	200.0	200.0	200.0	0.3	0.3	-23.80	11.7	-5.2	12.8	12.2	0.60	21.227			
235.7	235.7	235.7	235.7	0.4	0.4	-23.80	11.7	-5.2	12.8	12.1	0.73	17.596 CC, ES			
300.0	300.0	299.8	299.8	0.5	0.5	-21.31	12.2	-4.8	13.1	12.2	0.95	13.786			
400.0	400.0	399.2	399.1	0.7	0.7	-5.60	16.3	-1.6	16.4	15.1	1.32	12.487 SF			
500.0	500.0	498.0	497.3	0.8	0.9	-67.44	24.4	4.7	23.9	22.2	1.68	14.258			
600.0	599.6	596.2	594.3	1.0	1.2	-65.41	36.5	14.0	34.0	32.0	2.08	16.334			
700.0	698.8	693.7	689.7	1.3	1.6	-66.82	52.3	26.3	46.4	43.9	2.58	18.015			
800.0	797.1	790.3	783.2	1.6	2.1	-69.36	71.7	41.3	61.1	57.9	3.20	19.087			
900.0	894.3	886.0	874.3	2.1	2.6	-72.08	94.6	59.1	78.3	74.3	3.99	19.593			
1,000.0	990.2	980.6	962.9	2.6	3.2	-74.63	120.8	79.4	97.9	92.9	4.97	19.708			
1,100.0	1,084.4	1,074.1	1,048.8	3.2	3.9	-76.88	150.1	102.1	120.0	113.9	6.12	19.603			
1,200.0	1,177.0	1,166.4	1,131.6	3.9	4.7	-78.94	182.2	127.0	144.7	137.3	7.42	19.490			
1,300.0	1,269.2	1,257.3	1,211.3	4.6	5.5	-79.84	216.8	153.9	172.5	163.8	8.75	19.709			
1,400.0	1,361.5	1,346.6	1,287.3	5.3	6.4	-79.54	253.8	182.5	203.4	193.3	10.06	20.209			
1,500.0	1,453.7	1,433.8	1,359.4	6.0	7.3	-78.56	292.5	212.5	237.2	225.9	11.34	20.924			
1,600.0	1,546.0	1,523.9	1,432.0	6.8	8.3	-77.24	334.7	245.2	273.5	260.9	12.60	21.711			
1,700.0	1,638.2	1,616.8	1,506.7	7.5	9.3	-76.16	378.4	279.1	310.1	296.2	13.87	22.358			
1,800.0	1,730.4	1,709.7	1,581.4	8.2	10.4	-75.30	422.1	312.9	346.8	331.6	15.14	22.898			
1,900.0	1,822.7	1,802.7	1,656.1	9.0	11.4	-74.61	465.7	346.8	383.5	367.1	16.42	23.355			
2,000.0	1,914.9	1,895.6	1,730.8	9.7	12.4	-74.04	509.4	380.7	420.3	402.6	17.70	23.747			
2,100.0	2,007.1	1,988.5	1,805.5	10.4	13.5	-73.56	553.1	414.5	457.1	438.1	18.98	24.087			
2,200.0	2,099.4	2,081.4	1,880.2	11.2	14.5	-73.15	596.8	448.4	493.9	473.6	20.25	24.384			
2,300.0	2,191.6	2,174.3	1,954.9	11.9	15.5	-72.80	640.5	482.3	530.7	509.2	21.53	24.646			
2,400.0	2,283.9	2,267.3	2,029.6	12.6	16.6	-72.50	684.2	516.1	567.6	544.8	22.81	24.878			
2,500.0	2,376.1	2,360.2	2,104.3	13.4	17.6	-72.23	727.9	550.0	604.4	580.3	24.10	25.086			
2,600.0	2,468.3	2,453.1	2,179.0	14.1	18.6	-71.99	771.5	583.9	641.3	615.9	25.38	25.272			
2,700.0	2,560.6	2,546.0	2,253.7	14.8	19.7	-71.78	815.2	617.7	678.2	651.6	26.66	25.441			
2,800.0	2,652.8	2,639.0	2,328.3	15.6	20.7	-71.59	858.9	651.6	715.1	687.2	27.94	25.594			
2,900.0	2,745.1	2,731.9	2,403.0	16.3	21.7	-71.42	902.6	685.5	752.0	722.8	29.22	25.734			
3,000.0	2,837.3	2,824.8	2,477.7	17.1	22.8	-71.26	946.3	719.3	788.9	758.4	30.51	25.862			
3,100.0	2,929.5	2,917.7	2,552.4	17.8	23.8	-71.15	990.0	753.2	825.8	794.0	31.80	25.972			
3,200.0	3,022.8	3,048.6	2,659.5	18.4	25.2	-71.94	1,049.4	799.3	862.0	828.5	33.48	25.749			
3,300.0	3,117.8	3,195.1	2,785.1	19.0	26.5	-72.55	1,109.1	845.5	894.3	859.3	35.02	25.535			
3,400.0	3,214.3	3,346.9	2,920.8	19.4	27.7	-73.02	1,162.6	887.0	922.4	886.1	36.35	25.378			
3,500.0	3,312.1	3,503.5	3,066.1	19.8	28.7	-73.36	1,208.7	922.8	946.0	908.5	37.45	25.258			
3,600.0	3,410.8	3,664.3	3,219.7	20.1	29.5	-73.57	1,246.2	951.8	964.7	926.4	38.30	25.187			
3,700.0	3,510.2	3,828.5	3,380.2	20.2	30.1	-73.67	1,273.7	973.2	978.4	939.5	38.90	25.150			
3,800.0	3,610.0	3,995.3	3,545.5	20.3	30.4	-73.65	1,290.4	986.1	986.8	947.5	39.25	25.144			
3,900.0	3,710.0	4,160.0	3,710.0	20.4	30.6	-0.57	1,295.7	990.2	989.7	950.3	39.39	25.128			
4,000.0	3,810.0	4,260.0	3,810.0	20.5	30.6	-0.57	1,295.7	990.2	989.7	950.2	39.51	25.048			
4,100.0	3,910.0	4,360.0	3,910.0	20.5	30.6	-0.57	1,295.7	990.2	989.7	950.0	39.64	24.967			
4,200.0	4,010.0	4,460.0	4,010.0	20.6	30.7	-0.57	1,295.7	990.2	989.7	949.9	39.77	24.885			
4,300.0	4,110.0	4,560.0	4,110.0	20.6	30.7	-0.57	1,295.7	990.2	989.7	949.8	39.90	24.802			
4,400.0	4,210.0	4,660.0	4,210.0	20.7	30.8	-0.57	1,295.7	990.2	989.7	949.6	40.04	24.718			
4,500.0	4,310.0	4,760.0	4,310.0	20.8	30.8	-0.57	1,295.7	990.2	989.7	949.5	40.18	24.633			
4,600.0	4,410.0	4,860.0	4,410.0	20.8	30.9	-0.57	1,295.7	990.2	989.7	949.4	40.32	24.547			
4,700.0	4,510.0	4,960.0	4,510.0	20.9	30.9	-0.57	1,295.7	990.2	989.7	949.2	40.46	24.460			
4,800.0	4,610.0	5,060.0	4,610.0	21.0	31.0	-0.57	1,295.7	990.2	989.7	949.1	40.61	24.372			
4,900.0	4,710.0	5,160.0	4,710.0	21.0	31.0	-0.57	1,295.7	990.2	989.7	948.9	40.76	24.283			
5,000.0	4,810.0	5,260.0	4,810.0	21.1	31.1	-0.57	1,295.7	990.2	989.7	948.8	40.91	24.194			

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 14A-13
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.8ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.8ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 14A-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		
5,100.0	4,910.0	5,360.0	4,910.0	21.2	31.1	-0.57	1,295.7	990.2	989.7	948.6	41.06	24.104		
5,200.0	5,010.0	5,460.0	5,010.0	21.3	31.2	-0.57	1,295.7	990.2	989.7	948.5	41.22	24.013		
5,300.0	5,110.0	5,560.0	5,110.0	21.3	31.2	-0.57	1,295.7	990.2	989.7	948.3	41.37	23.921		
5,400.0	5,210.0	5,660.0	5,210.0	21.4	31.3	-0.57	1,295.7	990.2	989.7	948.2	41.53	23.829		
5,500.0	5,310.0	5,760.0	5,310.0	21.5	31.3	-0.57	1,295.7	990.2	989.7	948.0	41.70	23.736		
5,600.0	5,410.0	5,860.0	5,410.0	21.6	31.4	-0.57	1,295.7	990.2	989.7	947.8	41.86	23.642		
5,700.0	5,510.0	5,960.0	5,510.0	21.6	31.4	-0.57	1,295.7	990.2	989.7	947.7	42.03	23.548		
5,800.0	5,610.0	6,060.0	5,610.0	21.7	31.5	-0.57	1,295.7	990.2	989.7	947.5	42.20	23.454		
5,900.0	5,710.0	6,160.0	5,710.0	21.8	31.6	-0.57	1,295.7	990.2	989.7	947.3	42.37	23.359		
6,000.0	5,810.0	6,260.0	5,810.0	21.9	31.6	-0.57	1,295.7	990.2	989.7	947.1	42.54	23.263		
6,060.0	5,870.0	6,320.0	5,870.0	21.9	31.7	-0.57	1,295.7	990.2	989.7	947.0	42.65	23.206		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 14A-13
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.8ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.8ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 14A-13	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S14-T7S-R96W - Nolte 13C-13 - DD - Plan #3													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	27.56	14.2	7.4	16.0					
100.0	100.0	99.8	99.8	0.1	0.1	27.56	14.2	7.4	16.0	15.7	0.25	63.060		
200.0	200.0	199.8	199.8	0.3	0.3	27.56	14.2	7.4	16.0	15.4	0.60	26.545 CC, ES		
300.0	300.0	298.9	298.9	0.5	0.5	30.08	16.0	9.2	18.5	17.5	0.96	19.262		
400.0	400.0	397.5	397.2	0.7	0.7	34.73	21.3	14.7	26.0	24.7	1.35	19.262		
500.0	500.0	495.4	494.2	0.8	1.0	-36.68	30.0	23.8	36.6	35.0	1.65	22.193		
600.0	599.6	592.6	589.8	1.0	1.3	-38.38	42.1	36.3	48.1	46.0	2.02	23.833		
700.0	698.8	689.1	683.8	1.3	1.8	-41.37	57.4	52.2	60.5	58.1	2.43	24.882		
800.0	797.1	784.9	775.8	1.6	2.3	-44.82	75.9	71.3	74.1	71.1	2.94	25.219		
900.0	894.3	879.8	865.5	2.1	2.9	-48.34	97.3	93.5	89.0	85.4	3.58	24.831		
1,000.0	990.2	973.9	952.9	2.6	3.5	-51.72	121.6	118.7	105.4	101.0	4.41	23.897		
1,100.0	1,084.4	1,067.1	1,037.6	3.2	4.3	-54.87	148.5	146.6	123.4	118.0	5.44	22.681		
1,200.0	1,177.0	1,159.8	1,119.9	3.9	5.1	-57.82	178.2	177.3	143.2	136.6	6.64	21.566		
1,300.0	1,269.2	1,257.3	1,205.5	4.6	5.9	-60.25	210.5	210.8	164.6	156.7	7.94	20.737		
1,400.0	1,361.5	1,354.7	1,291.1	5.3	6.8	-62.12	242.9	244.4	186.3	177.0	9.27	20.098		
1,500.0	1,453.7	1,452.2	1,376.8	6.0	7.6	-63.60	275.2	277.9	208.0	197.4	10.62	19.597		
1,600.0	1,546.0	1,549.7	1,462.4	6.8	8.5	-64.80	307.6	311.4	229.9	217.9	11.98	19.198		
1,700.0	1,638.2	1,647.2	1,548.0	7.5	9.4	-65.79	339.9	345.0	251.9	238.5	13.35	18.874		
1,800.0	1,730.4	1,744.6	1,633.6	8.2	10.3	-66.63	372.3	378.5	273.9	259.2	14.72	18.606		
1,900.0	1,822.7	1,842.1	1,719.2	9.0	11.1	-67.34	404.7	412.0	296.0	279.9	16.10	18.382		
2,000.0	1,914.9	1,939.6	1,804.8	9.7	12.0	-67.95	437.0	445.6	318.1	300.6	17.48	18.192		
2,100.0	2,007.1	2,037.1	1,890.4	10.4	12.9	-68.48	469.4	479.1	340.2	321.3	18.87	18.030		
2,200.0	2,099.4	2,134.5	1,976.1	11.2	13.7	-68.95	501.7	512.6	362.4	342.1	20.26	17.888		
2,300.0	2,191.6	2,232.0	2,061.7	11.9	14.6	-69.36	534.1	546.1	384.5	362.9	21.65	17.765		
2,400.0	2,283.9	2,329.5	2,147.3	12.6	15.5	-69.73	566.5	579.7	406.7	383.7	23.04	17.657		
2,500.0	2,376.1	2,427.0	2,232.9	13.4	16.4	-70.06	598.8	613.2	429.0	404.5	24.43	17.560		
2,600.0	2,468.3	2,524.4	2,318.5	14.1	17.2	-70.35	631.2	646.7	451.2	425.4	25.82	17.474		
2,700.0	2,560.6	2,621.9	2,404.1	14.8	18.1	-70.62	663.5	680.3	473.4	446.2	27.21	17.397		
2,800.0	2,652.8	2,719.4	2,489.7	15.6	19.0	-70.87	695.9	713.8	495.7	467.0	28.61	17.327		
2,900.0	2,745.1	2,816.9	2,575.4	16.3	19.9	-71.09	728.3	747.3	517.9	487.9	30.00	17.264		
3,000.0	2,837.3	2,914.3	2,661.0	17.1	20.7	-71.30	760.6	780.9	540.2	508.8	31.39	17.206		
3,100.0	2,929.5	3,011.8	2,746.6	17.8	21.6	-71.50	793.0	814.4	562.4	529.6	32.79	17.151		
3,200.0	3,022.8	3,125.6	2,847.3	18.4	22.6	-72.16	829.7	852.5	584.6	550.4	34.26	17.064		
3,300.0	3,117.8	3,249.9	2,960.6	19.0	23.5	-72.67	865.3	889.3	604.4	568.8	35.57	16.993		
3,400.0	3,214.3	3,376.0	3,078.6	19.4	24.3	-73.06	896.0	921.2	621.3	584.6	36.67	16.941		
3,500.0	3,312.1	3,503.7	3,200.8	19.8	24.9	-73.35	921.6	947.7	635.3	597.7	37.57	16.908		
3,600.0	3,410.8	3,632.6	3,326.5	20.1	25.4	-73.54	941.6	968.4	646.2	607.9	38.25	16.894		
3,700.0	3,510.2	3,762.6	3,454.9	20.2	25.7	-73.63	955.7	983.0	653.9	615.2	38.72	16.890		
3,800.0	3,610.0	3,893.3	3,585.0	20.3	25.9	-73.62	963.8	991.4	658.5	619.5	38.98	16.894		
3,900.0	3,710.0	4,018.2	3,709.8	20.4	26.0	-0.57	965.8	993.5	659.8	620.7	39.09	16.879		
4,000.0	3,810.0	4,118.2	3,809.8	20.5	26.0	-0.57	965.8	993.5	659.8	620.6	39.21	16.826		
4,100.0	3,910.0	4,218.2	3,909.8	20.5	26.1	-0.57	965.8	993.5	659.8	620.4	39.34	16.771		
4,200.0	4,010.0	4,318.2	4,009.8	20.6	26.1	-0.57	965.8	993.5	659.8	620.3	39.47	16.717		
4,300.0	4,110.0	4,418.2	4,109.8	20.6	26.2	-0.57	965.8	993.5	659.8	620.2	39.60	16.661		
4,400.0	4,210.0	4,518.2	4,209.8	20.7	26.2	-0.57	965.8	993.5	659.8	620.1	39.74	16.604		
4,500.0	4,310.0	4,618.2	4,309.8	20.8	26.3	-0.57	965.8	993.5	659.8	619.9	39.87	16.547		
4,600.0	4,410.0	4,718.2	4,409.8	20.8	26.3	-0.57	965.8	993.5	659.8	619.8	40.01	16.489		
4,700.0	4,510.0	4,818.2	4,509.8	20.9	26.4	-0.57	965.8	993.5	659.8	619.6	40.16	16.431		
4,800.0	4,610.0	4,918.2	4,609.8	21.0	26.4	-0.57	965.8	993.5	659.8	619.5	40.30	16.372		
4,900.0	4,710.0	5,018.2	4,709.8	21.0	26.5	-0.57	965.8	993.5	659.8	619.3	40.45	16.312		
5,000.0	4,810.0	5,118.2	4,809.8	21.1	26.5	-0.57	965.8	993.5	659.8	619.2	40.60	16.252		
5,100.0	4,910.0	5,218.2	4,909.8	21.2	26.6	-0.57	965.8	993.5	659.8	619.0	40.75	16.191		

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 14A-13
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.8ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.8ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 14A-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	5,010.0	5,318.2	5,009.8	21.3	26.7	-0.57	965.8	993.5	659.8	618.9	40.90	16.130			
5,300.0	5,110.0	5,418.2	5,109.8	21.3	26.7	-0.57	965.8	993.5	659.8	618.7	41.06	16.068			
5,400.0	5,210.0	5,518.2	5,209.8	21.4	26.8	-0.57	965.8	993.5	659.8	618.6	41.22	16.006			
5,500.0	5,310.0	5,618.2	5,309.8	21.5	26.9	-0.57	965.8	993.5	659.8	618.4	41.38	15.944			
5,600.0	5,410.0	5,718.2	5,409.8	21.6	26.9	-0.57	965.8	993.5	659.8	618.2	41.55	15.881			
5,700.0	5,510.0	5,818.2	5,509.8	21.6	27.0	-0.57	965.8	993.5	659.8	618.1	41.71	15.817			
5,800.0	5,610.0	5,918.2	5,609.8	21.7	27.0	-0.57	965.8	993.5	659.8	617.9	41.88	15.754			
5,900.0	5,710.0	6,018.2	5,709.8	21.8	27.1	-0.57	965.8	993.5	659.8	617.7	42.05	15.690			
6,000.0	5,810.0	6,118.2	5,809.8	21.9	27.2	-0.57	965.8	993.5	659.8	617.6	42.23	15.626			
6,060.0	5,870.0	6,178.2	5,869.8	21.9	27.2	-0.57	965.8	993.5	659.8	617.5	42.33	15.587 SF			

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 14A-13
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.8ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.8ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 14A-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	0.0	0.0	0.0	0.0	27.56	7.1	3.7	8.0						
100.0	100.0	100.0	100.0	0.1	0.1	27.56	7.1	3.7	8.0	7.7	0.25	31.520			
200.0	200.0	200.0	200.0	0.3	0.3	27.56	7.1	3.7	8.0	7.4	0.60	13.269			
300.0	300.0	300.0	300.0	0.5	0.5	27.56	7.1	3.7	8.0	7.0	0.95	8.403 CC, ES			
400.0	400.0	399.5	399.5	0.7	0.7	34.79	8.5	5.9	10.3	9.0	1.31	7.912			
500.0	500.0	498.8	498.4	0.8	0.9	-32.91	12.6	12.4	15.5	13.9	1.65	9.401			
600.0	599.6	597.7	596.5	1.0	1.1	-33.71	19.5	23.3	21.3	19.3	2.02	10.566			
700.0	698.8	696.3	693.5	1.3	1.5	-36.70	29.0	38.3	27.7	25.3	2.43	11.415			
800.0	797.1	794.6	789.0	1.6	1.9	-40.47	41.2	57.5	34.8	31.9	2.93	11.891			
900.0	894.3	892.4	883.0	2.1	2.4	-44.41	55.9	80.7	42.7	39.2	3.57	11.966			
1,000.0	990.2	990.0	975.0	2.6	3.0	-48.23	73.0	107.9	51.6	47.1	4.40	11.707			
1,100.0	1,084.4	1,087.1	1,065.0	3.2	3.7	-51.79	92.6	138.8	61.4	55.9	5.46	11.249			
1,200.0	1,177.0	1,185.4	1,154.4	3.9	4.5	-55.33	114.5	173.3	71.9	65.1	6.71	10.714			
1,300.0	1,269.2	1,284.7	1,244.5	4.6	5.2	-58.39	136.8	208.6	82.4	74.4	8.05	10.236			
1,400.0	1,361.5	1,384.1	1,334.7	5.3	6.0	-60.75	159.2	243.9	93.2	83.8	9.43	9.880			
1,500.0	1,453.7	1,483.4	1,424.8	6.0	6.8	-62.62	181.5	279.2	104.1	93.3	10.83	9.609			
1,600.0	1,546.0	1,582.8	1,515.0	6.8	7.6	-64.13	203.8	314.4	115.1	102.8	12.24	9.398			
1,700.0	1,638.2	1,682.1	1,605.1	7.5	8.4	-65.38	226.2	349.7	126.1	112.4	13.66	9.231			
1,800.0	1,730.4	1,781.5	1,695.3	8.2	9.2	-66.43	248.5	385.0	137.2	122.1	15.09	9.095			
1,900.0	1,822.7	1,880.8	1,785.5	9.0	9.9	-67.32	270.8	420.2	148.3	131.8	16.51	8.983			
2,000.0	1,914.9	1,980.2	1,875.6	9.7	10.7	-68.09	293.2	455.5	159.5	141.6	17.94	8.889			
2,100.0	2,007.1	2,079.5	1,965.8	10.4	11.5	-68.75	315.5	490.8	170.7	151.3	19.37	8.810			
2,200.0	2,099.4	2,178.9	2,055.9	11.2	12.3	-69.34	337.9	526.1	181.9	161.1	20.81	8.742			
2,300.0	2,191.6	2,278.3	2,146.1	11.9	13.1	-69.85	360.2	561.3	193.1	170.9	22.24	8.683			
2,400.0	2,283.9	2,377.6	2,236.2	12.6	13.9	-70.31	382.5	596.6	204.3	180.7	23.67	8.632			
2,500.0	2,376.1	2,477.0	2,326.4	13.4	14.7	-70.72	404.9	631.9	215.6	190.5	25.11	8.586			
2,600.0	2,468.3	2,576.3	2,416.6	14.1	15.5	-71.09	427.2	667.1	226.9	200.3	26.54	8.546			
2,700.0	2,560.6	2,675.7	2,506.7	14.8	16.3	-71.43	449.5	702.4	238.1	210.1	27.98	8.510			
2,800.0	2,652.8	2,775.0	2,596.9	15.6	17.0	-71.74	471.9	737.7	249.4	220.0	29.42	8.478			
2,900.0	2,745.1	2,874.4	2,687.0	16.3	17.8	-72.01	494.2	772.9	260.7	229.8	30.85	8.449			
3,000.0	2,837.3	2,973.7	2,777.2	17.1	18.6	-72.27	516.5	808.2	272.0	239.7	32.29	8.423			
3,100.0	2,929.5	3,073.1	2,867.4	17.8	19.4	-72.51	538.9	843.5	283.3	249.5	33.73	8.399			
3,200.0	3,022.8	3,180.1	2,965.4	18.4	20.2	-72.91	561.7	879.6	294.2	259.1	35.06	8.391			
3,300.0	3,117.8	3,288.4	3,067.0	19.0	20.8	-73.21	581.9	911.4	303.8	267.6	36.21	8.388			
3,400.0	3,214.3	3,397.3	3,171.0	19.4	21.4	-73.44	599.0	938.5	311.9	274.7	37.17	8.391			
3,500.0	3,312.1	3,506.4	3,277.0	19.8	21.8	-73.59	612.9	960.5	318.5	280.6	37.93	8.398			
3,600.0	3,410.8	3,615.9	3,384.6	20.1	22.2	-73.67	623.7	977.4	323.7	285.2	38.50	8.407			
3,700.0	3,510.2	3,725.6	3,493.4	20.2	22.4	-73.68	631.1	989.1	327.3	288.4	38.88	8.417			
3,800.0	3,610.0	3,835.5	3,603.1	20.3	22.5	-73.62	635.1	995.5	329.4	290.3	39.09	8.426			
3,900.0	3,710.0	3,942.5	3,710.0	20.4	22.6	-0.57	635.9	996.8	329.9	290.7	39.19	8.417			
4,000.0	3,810.0	4,042.5	3,810.0	20.5	22.7	-0.57	635.9	996.8	329.9	290.6	39.32	8.391			
4,100.0	3,910.0	4,142.5	3,910.0	20.5	22.7	-0.57	635.9	996.8	329.9	290.5	39.44	8.364			
4,200.0	4,010.0	4,242.5	4,010.0	20.6	22.8	-0.57	635.9	996.8	329.9	290.3	39.57	8.337			
4,300.0	4,110.0	4,342.5	4,110.0	20.6	22.8	-0.57	635.9	996.8	329.9	290.2	39.70	8.310			
4,400.0	4,210.0	4,442.5	4,210.0	20.7	22.9	-0.57	635.9	996.8	329.9	290.1	39.83	8.282			
4,500.0	4,310.0	4,542.5	4,310.0	20.8	22.9	-0.57	635.9	996.8	329.9	289.9	39.97	8.254			
4,600.0	4,410.0	4,642.5	4,410.0	20.8	23.0	-0.57	635.9	996.8	329.9	289.8	40.11	8.225			
4,700.0	4,510.0	4,742.5	4,510.0	20.9	23.1	-0.57	635.9	996.8	329.9	289.6	40.25	8.196			
4,800.0	4,610.0	4,842.5	4,610.0	21.0	23.1	-0.57	635.9	996.8	329.9	289.5	40.39	8.167			
4,900.0	4,710.0	4,942.5	4,710.0	21.0	23.2	-0.57	635.9	996.8	329.9	289.4	40.54	8.138			
5,000.0	4,810.0	5,042.5	4,810.0	21.1	23.3	-0.57	635.9	996.8	329.9	289.2	40.69	8.108			
5,100.0	4,910.0	5,142.5	4,910.0	21.2	23.3	-0.57	635.9	996.8	329.9	289.1	40.84	8.078			

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 14A-13
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.8ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.8ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 14A-13	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S14-T7S-R96W - Nolte 13D-13 - DD - Plan #3													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,200.0	5,010.0	5,242.5	5,010.0	21.3	23.4	-0.57	635.9	996.8	329.9	288.9	40.99	8.048		
5,300.0	5,110.0	5,342.5	5,110.0	21.3	23.5	-0.57	635.9	996.8	329.9	288.7	41.15	8.018		
5,400.0	5,210.0	5,442.5	5,210.0	21.4	23.5	-0.57	635.9	996.8	329.9	288.6	41.30	7.987		
5,500.0	5,310.0	5,542.5	5,310.0	21.5	23.6	-0.57	635.9	996.8	329.9	288.4	41.46	7.956		
5,600.0	5,410.0	5,642.5	5,410.0	21.6	23.7	-0.57	635.9	996.8	329.9	288.3	41.63	7.925		
5,700.0	5,510.0	5,742.5	5,510.0	21.6	23.7	-0.57	635.9	996.8	329.9	288.1	41.79	7.894		
5,800.0	5,610.0	5,842.5	5,610.0	21.7	23.8	-0.57	635.9	996.8	329.9	287.9	41.96	7.862		
5,900.0	5,710.0	5,942.5	5,710.0	21.8	23.9	-0.57	635.9	996.8	329.9	287.8	42.13	7.831		
6,000.0	5,810.0	6,042.5	5,810.0	21.9	24.0	-0.57	635.9	996.8	329.9	287.6	42.30	7.799		
6,060.0	5,870.0	6,102.5	5,870.0	21.9	24.0	-0.57	635.9	996.8	329.9	287.5	42.40	7.780 SF		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 14A-13
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.8ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.8ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 14A-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	0.0	0.0	0.0	0.0	-152.43	-7.1	-3.7	8.0					
100.0	100.0	100.0	100.0	0.1	0.1	-152.43	-7.1	-3.7	8.0	7.7	0.25	31.482		
200.0	200.0	200.0	200.0	0.3	0.3	-152.43	-7.1	-3.7	8.0	7.4	0.60	13.258		
300.0	300.0	300.0	300.0	0.5	0.5	-152.43	-7.1	-3.7	8.0	7.0	0.95	8.397		
400.0	400.0	400.0	400.0	0.7	0.7	-152.43	-7.1	-3.7	8.0	6.7	1.30	6.144 CC, ES		
500.0	500.0	500.0	500.0	0.8	0.8	145.29	-7.1	-3.7	10.0	8.4	1.65	6.062 SF		
600.0	599.6	600.0	600.0	1.0	1.0	159.06	-7.1	-3.0	16.5	14.5	2.00	8.277		
700.0	698.8	700.5	700.3	1.3	1.2	162.21	-7.2	2.2	24.7	22.4	2.35	10.510		
800.0	797.1	801.4	800.6	1.6	1.4	161.20	-7.4	12.8	33.6	30.9	2.73	12.323		
900.0	894.3	902.5	900.5	2.1	1.7	158.61	-7.6	28.7	43.3	40.1	3.16	13.688		
1,000.0	990.2	1,003.8	999.6	2.6	2.1	155.40	-8.0	50.0	53.8	50.1	3.70	14.540		
1,100.0	1,084.4	1,105.4	1,097.6	3.2	2.5	151.98	-8.4	76.5	65.2	60.8	4.39	14.851		
1,200.0	1,177.0	1,207.2	1,194.3	3.9	3.1	148.45	-8.9	108.2	77.4	72.1	5.30	14.606		
1,300.0	1,269.2	1,309.2	1,289.4	4.6	3.8	143.51	-9.6	145.2	87.1	80.6	6.51	13.381		
1,400.0	1,361.5	1,409.3	1,381.1	5.3	4.5	137.67	-10.2	185.1	95.3	87.3	7.99	11.933		
1,500.0	1,453.7	1,508.5	1,472.0	6.0	5.2	132.73	-10.9	224.9	104.2	94.7	9.54	10.922		
1,600.0	1,546.0	1,607.7	1,562.9	6.8	6.0	128.58	-11.5	264.7	113.8	102.6	11.13	10.221		
1,700.0	1,638.2	1,707.0	1,653.8	7.5	6.7	125.09	-12.2	304.5	123.8	111.1	12.73	9.725		
1,800.0	1,730.4	1,806.2	1,744.7	8.2	7.4	122.13	-12.9	344.3	134.3	119.9	14.33	9.368		
1,900.0	1,822.7	1,905.4	1,835.6	9.0	8.2	119.59	-13.5	384.1	145.0	129.1	15.92	9.105		
2,000.0	1,914.9	2,004.7	1,926.5	9.7	9.0	117.41	-14.2	423.9	156.0	138.5	17.51	8.909		
2,100.0	2,007.1	2,103.9	2,017.4	10.4	9.7	115.52	-14.8	463.7	167.2	148.1	19.08	8.759		
2,200.0	2,099.4	2,203.1	2,108.3	11.2	10.5	113.87	-15.5	503.5	178.5	157.8	20.65	8.644		
2,300.0	2,191.6	2,302.4	2,199.2	11.9	11.2	112.42	-16.2	543.3	190.0	167.8	22.21	8.554		
2,400.0	2,283.9	2,401.6	2,290.1	12.6	12.0	111.13	-16.8	583.0	201.5	177.8	23.76	8.483		
2,500.0	2,376.1	2,500.8	2,381.0	13.4	12.8	109.98	-17.5	622.8	213.2	187.9	25.30	8.427		
2,600.0	2,468.3	2,600.0	2,471.9	14.1	13.5	108.95	-18.2	662.6	224.9	198.1	26.84	8.382		
2,700.0	2,560.6	2,699.3	2,562.8	14.8	14.3	108.02	-18.8	702.4	236.7	208.4	28.37	8.345		
2,800.0	2,652.8	2,798.5	2,653.7	15.6	15.0	107.18	-19.5	742.2	248.6	218.7	29.90	8.316		
2,900.0	2,745.1	2,897.7	2,744.6	16.3	15.8	106.42	-20.1	782.0	260.5	229.1	31.42	8.292		
3,000.0	2,837.3	2,997.0	2,835.5	17.1	16.6	105.72	-20.8	821.8	272.5	239.5	32.94	8.272		
3,100.0	2,929.5	3,096.4	2,926.8	17.8	17.3	105.21	-21.4	861.1	284.4	250.0	34.42	8.263		
3,200.0	3,022.8	3,196.2	3,020.1	18.4	18.0	105.40	-22.0	896.5	295.6	259.9	35.68	8.284		
3,300.0	3,117.8	3,296.1	3,115.3	19.0	18.5	105.59	-22.5	927.0	305.2	268.5	36.75	8.305		
3,400.0	3,214.3	3,396.3	3,212.2	19.4	18.9	105.76	-23.0	952.5	313.3	275.6	37.64	8.324		
3,500.0	3,312.1	3,496.6	3,310.3	19.8	19.3	105.93	-23.3	972.9	319.8	281.4	38.34	8.340		
3,600.0	3,410.8	3,597.0	3,409.6	20.1	19.5	106.09	-23.6	988.1	324.7	285.8	38.87	8.353		
3,700.0	3,510.2	3,697.4	3,509.5	20.2	19.7	106.24	-23.7	998.2	328.0	288.8	39.22	8.362		
3,800.0	3,610.0	3,797.9	3,609.8	20.3	19.8	106.38	-23.8	1,002.9	329.7	290.3	39.41	8.366		
3,900.0	3,710.0	3,898.1	3,710.0	20.4	19.9	106.43	-23.8	1,003.3	329.9	290.4	39.52	8.348		
4,000.0	3,810.0	3,998.1	3,810.0	20.5	19.9	106.43	-23.8	1,003.3	329.9	290.3	39.64	8.322		
4,100.0	3,910.0	4,098.1	3,910.0	20.5	20.0	106.43	-23.8	1,003.3	329.9	290.1	39.76	8.297		
4,200.0	4,010.0	4,198.1	4,010.0	20.6	20.0	106.43	-23.8	1,003.3	329.9	290.0	39.89	8.270		
4,300.0	4,110.0	4,298.1	4,110.0	20.6	20.1	106.43	-23.8	1,003.3	329.9	289.9	40.02	8.244		
4,400.0	4,210.0	4,398.1	4,210.0	20.7	20.2	106.43	-23.8	1,003.3	329.9	289.7	40.15	8.217		
4,500.0	4,310.0	4,498.1	4,310.0	20.8	20.2	106.43	-23.8	1,003.3	329.9	289.6	40.28	8.189		
4,600.0	4,410.0	4,598.1	4,410.0	20.8	20.3	106.43	-23.8	1,003.3	329.9	289.5	40.42	8.162		
4,700.0	4,510.0	4,698.1	4,510.0	20.9	20.4	106.43	-23.8	1,003.3	329.9	289.3	40.56	8.134		
4,800.0	4,610.0	4,798.1	4,610.0	21.0	20.5	106.43	-23.8	1,003.3	329.9	289.2	40.70	8.105		
4,900.0	4,710.0	4,898.1	4,710.0	21.0	20.5	106.43	-23.8	1,003.3	329.9	289.0	40.84	8.077		
5,000.0	4,810.0	4,998.1	4,810.0	21.1	20.6	106.43	-23.8	1,003.3	329.9	288.9	40.99	8.048		
5,100.0	4,910.0	5,098.1	4,910.0	21.2	20.7	106.43	-23.8	1,003.3	329.9	288.8	41.14	8.019		

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 14A-13
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.8ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.8ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 14A-13	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S14-T7S-R96W - Nolte 14B-13 - DD - Plan #3													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,200.0	5,010.0	5,198.1	5,010.0	21.3	20.7	179.43	-23.8	1,003.3	329.9	288.6	41.29	7.989		
5,300.0	5,110.0	5,298.1	5,110.0	21.3	20.8	179.43	-23.8	1,003.3	329.9	288.4	41.44	7.960		
5,400.0	5,210.0	5,398.1	5,210.0	21.4	20.9	179.43	-23.8	1,003.3	329.9	288.3	41.60	7.930		
5,500.0	5,310.0	5,498.1	5,310.0	21.5	21.0	179.43	-23.8	1,003.3	329.9	288.1	41.76	7.900		
5,600.0	5,410.0	5,598.1	5,410.0	21.6	21.1	179.43	-23.8	1,003.3	329.9	288.0	41.92	7.869		
5,700.0	5,510.0	5,698.1	5,510.0	21.6	21.1	179.43	-23.8	1,003.3	329.9	287.8	42.08	7.839		
5,800.0	5,610.0	5,798.1	5,610.0	21.7	21.2	179.43	-23.8	1,003.3	329.9	287.6	42.25	7.808		
5,900.0	5,710.0	5,898.1	5,710.0	21.8	21.3	179.43	-23.8	1,003.3	329.9	287.5	42.42	7.777		
6,000.0	5,810.0	5,998.1	5,810.0	21.9	21.4	179.43	-23.8	1,003.3	329.9	287.3	42.59	7.746		
6,036.0	5,846.0	6,034.1	5,846.0	21.9	21.4	179.43	-23.8	1,003.3	329.9	287.2	42.65	7.735		
6,060.0	5,870.0	6,048.1	5,860.0	21.9	21.4	179.43	-23.8	1,003.3	330.0	287.4	42.68	7.733		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 14A-13
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.8ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.8ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 14A-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	0.0	0.0	0.0	0.0	-151.73	-13.7	-7.3	15.5					
100.0	100.0	100.0	100.0	0.1	0.1	-151.73	-13.7	-7.3	15.5	15.3	0.25	61.018		
200.0	200.0	200.0	200.0	0.3	0.3	-151.73	-13.7	-7.3	15.5	14.9	0.60	25.707		
300.0	300.0	300.0	300.0	0.5	0.5	-151.73	-13.7	-7.3	15.5	14.6	0.95	16.284		
400.0	400.0	400.0	400.0	0.7	0.7	-151.73	-13.7	-7.3	15.5	14.2	1.30	11.916 CC, ES		
500.0	500.0	500.0	500.0	0.8	0.8	141.30	-13.7	-7.3	17.5	15.8	1.65	10.575 SF		
600.0	599.6	600.1	600.1	1.0	1.0	147.17	-14.5	-4.9	23.0	21.0	2.01	11.455		
700.0	698.8	700.3	699.9	1.3	1.2	146.60	-17.1	2.6	31.2	28.8	2.40	12.963		
800.0	797.1	800.3	799.1	1.6	1.5	143.42	-21.3	14.9	41.9	39.0	2.89	14.517		
900.0	894.3	900.1	897.1	2.1	1.8	139.56	-27.3	32.1	55.3	51.8	3.50	15.791		
1,000.0	990.2	999.4	993.7	2.6	2.2	135.83	-34.8	54.0	71.6	67.3	4.30	16.664		
1,100.0	1,084.4	1,098.1	1,088.4	3.2	2.7	132.46	-44.0	80.5	90.9	85.6	5.29	17.182		
1,200.0	1,177.0	1,196.2	1,180.9	3.9	3.3	129.54	-54.6	111.3	112.8	106.3	6.46	17.445		
1,300.0	1,269.2	1,293.8	1,271.1	4.6	4.0	125.90	-66.7	146.3	135.1	127.2	7.83	17.252		
1,400.0	1,361.5	1,390.6	1,359.0	5.3	4.7	121.74	-80.0	184.8	157.8	148.5	9.30	16.969		
1,500.0	1,453.7	1,487.4	1,446.6	6.0	5.5	118.45	-93.4	223.8	181.2	170.5	10.78	16.814		
1,600.0	1,546.0	1,584.2	1,534.1	6.8	6.2	115.92	-106.9	262.7	205.1	192.8	12.25	16.741		
1,700.0	1,638.2	1,680.9	1,621.7	7.5	7.0	113.92	-120.3	301.6	229.2	215.5	13.71	16.715		
1,800.0	1,730.4	1,777.7	1,709.3	8.2	7.8	112.29	-133.7	340.5	253.6	238.4	15.17	16.713		
1,900.0	1,822.7	1,874.4	1,796.8	9.0	8.6	110.96	-147.2	379.4	278.1	261.5	16.63	16.726		
2,000.0	1,914.9	1,971.2	1,884.4	9.7	9.4	109.83	-160.6	418.3	302.7	284.7	18.08	16.747		
2,100.0	2,007.1	2,068.0	1,972.0	10.4	10.1	108.88	-174.0	457.2	327.5	308.0	19.52	16.773		
2,200.0	2,099.4	2,164.7	2,059.5	11.2	10.9	108.06	-187.5	496.1	352.3	331.3	20.97	16.800		
2,300.0	2,191.6	2,261.5	2,147.1	11.9	11.7	107.35	-200.9	535.0	377.2	354.7	22.41	16.828		
2,400.0	2,283.9	2,358.2	2,234.7	12.6	12.5	106.73	-214.3	574.0	402.1	378.2	23.85	16.856		
2,500.0	2,376.1	2,455.0	2,322.2	13.4	13.3	106.17	-227.7	612.9	427.0	401.7	25.29	16.883		
2,600.0	2,468.3	2,551.8	2,409.8	14.1	14.1	105.68	-241.2	651.8	452.0	425.3	26.73	16.909		
2,700.0	2,560.6	2,648.5	2,497.4	14.8	14.9	105.25	-254.6	690.7	477.0	448.9	28.17	16.934		
2,800.0	2,652.8	2,745.3	2,584.9	15.6	15.6	104.85	-268.0	729.6	502.1	472.5	29.61	16.958		
2,900.0	2,745.1	2,842.0	2,672.5	16.3	16.4	104.49	-281.5	768.5	527.1	496.1	31.04	16.981		
3,000.0	2,837.3	2,938.8	2,760.1	17.1	17.2	104.17	-294.9	807.4	552.2	519.7	32.48	17.003		
3,100.0	2,929.5	3,038.7	2,850.6	17.8	18.0	103.90	-308.7	847.4	577.2	543.3	33.91	17.021		
3,200.0	3,022.8	3,147.2	2,950.7	18.4	18.8	104.44	-322.3	886.8	600.2	564.9	35.28	17.011		
3,300.0	3,117.8	3,256.9	3,054.3	19.0	19.4	104.91	-334.2	921.2	620.1	583.6	36.47	17.005		
3,400.0	3,214.3	3,367.9	3,160.9	19.4	19.9	105.31	-344.2	950.2	636.7	599.3	37.45	17.000		
3,500.0	3,312.1	3,479.7	3,270.0	19.8	20.3	105.66	-352.2	973.4	650.0	611.8	38.25	16.995		
3,600.0	3,410.8	3,592.3	3,381.1	20.1	20.7	105.95	-358.2	990.7	660.0	621.1	38.85	16.989		
3,700.0	3,510.2	3,705.4	3,493.5	20.2	20.9	106.20	-362.0	1,001.7	666.5	627.2	39.25	16.981		
3,800.0	3,610.0	3,818.7	3,606.7	20.3	21.0	106.39	-363.6	1,006.5	669.5	630.0	39.46	16.965		
3,900.0	3,710.0	3,922.1	3,710.0	20.4	21.0	179.43	-363.7	1,006.7	669.8	630.2	39.59	16.920		
4,000.0	3,810.0	4,022.1	3,810.0	20.5	21.1	179.43	-363.7	1,006.7	669.8	630.1	39.71	16.868		
4,100.0	3,910.0	4,122.1	3,910.0	20.5	21.1	179.43	-363.7	1,006.7	669.8	630.0	39.83	16.816		
4,200.0	4,010.0	4,222.1	4,010.0	20.6	21.2	179.43	-363.7	1,006.7	669.8	629.8	39.96	16.763		
4,300.0	4,110.0	4,322.1	4,110.0	20.6	21.3	179.43	-363.7	1,006.7	669.8	629.7	40.09	16.709		
4,400.0	4,210.0	4,422.1	4,210.0	20.7	21.3	179.43	-363.7	1,006.7	669.8	629.6	40.22	16.654		
4,500.0	4,310.0	4,522.1	4,310.0	20.8	21.4	179.43	-363.7	1,006.7	669.8	629.4	40.35	16.599		
4,600.0	4,410.0	4,622.1	4,410.0	20.8	21.4	179.43	-363.7	1,006.7	669.8	629.3	40.49	16.543		
4,700.0	4,510.0	4,722.1	4,510.0	20.9	21.5	179.43	-363.7	1,006.7	669.8	629.2	40.63	16.486		
4,800.0	4,610.0	4,822.1	4,610.0	21.0	21.6	179.43	-363.7	1,006.7	669.8	629.0	40.77	16.429		
4,900.0	4,710.0	4,922.1	4,710.0	21.0	21.6	179.43	-363.7	1,006.7	669.8	628.9	40.91	16.371		
5,000.0	4,810.0	5,022.1	4,810.0	21.1	21.7	179.43	-363.7	1,006.7	669.8	628.7	41.06	16.312		
5,100.0	4,910.0	5,122.1	4,910.0	21.2	21.8	179.43	-363.7	1,006.7	669.8	628.6	41.21	16.253		

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 14A-13
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.8ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.8ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 14A-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						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,200.0	5,010.0	5,222.1	5,010.0	21.3	21.9	179.43	-363.7	1,006.7	669.8	628.4	41.36	16.194		
5,300.0	5,110.0	5,322.1	5,110.0	21.3	21.9	179.43	-363.7	1,006.7	669.8	628.3	41.51	16.134		
5,400.0	5,210.0	5,422.1	5,210.0	21.4	22.0	179.43	-363.7	1,006.7	669.8	628.1	41.67	16.073		
5,500.0	5,310.0	5,522.1	5,310.0	21.5	22.1	179.43	-363.7	1,006.7	669.8	628.0	41.83	16.012		
5,600.0	5,410.0	5,622.1	5,410.0	21.6	22.2	179.43	-363.7	1,006.7	669.8	627.8	41.99	15.951		
5,700.0	5,510.0	5,722.1	5,510.0	21.6	22.2	179.43	-363.7	1,006.7	669.8	627.6	42.15	15.889		
5,800.0	5,610.0	5,822.1	5,610.0	21.7	22.3	179.43	-363.7	1,006.7	669.8	627.5	42.32	15.827		
5,900.0	5,710.0	5,922.1	5,710.0	21.8	22.4	179.43	-363.7	1,006.7	669.8	627.3	42.49	15.765		
6,000.0	5,810.0	6,022.1	5,810.0	21.9	22.5	179.43	-363.7	1,006.7	669.8	627.1	42.66	15.702		
6,020.0	5,830.0	6,042.0	5,830.0	21.9	22.5	179.43	-363.7	1,006.7	669.8	627.1	42.69	15.689		
6,060.0	5,870.0	6,052.0	5,840.0	21.9	22.5	179.43	-363.7	1,006.7	670.5	627.7	42.73	15.689		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 14A-13
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.8ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.8ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 14A-13	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S14-T7S-R96W - Nolte 14D-13 - DD - Plan #3													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-152.50	-21.3	-11.1	24.0					
100.0	100.0	100.0	100.0	0.1	0.1	-152.50	-21.3	-11.1	24.0	23.7	0.25	94.314		
200.0	200.0	200.0	200.0	0.3	0.3	-152.50	-21.3	-11.1	24.0	23.4	0.60	39.750		
300.0	300.0	300.0	300.0	0.5	0.5	-152.50	-21.3	-11.1	24.0	23.0	0.95	25.181		
400.0	400.0	400.0	400.0	0.7	0.7	-152.50	-21.3	-11.1	24.0	22.7	1.30	18.428 CC, ES		
500.0	500.0	499.8	499.8	0.8	0.8	132.85	-22.7	-8.9	26.1	24.4	1.66	15.736 SF		
600.0	599.6	599.4	599.0	1.0	1.0	129.16	-26.9	-2.4	32.4	30.4	2.05	15.798		
700.0	698.8	698.3	697.1	1.3	1.3	125.39	-33.9	8.4	43.2	40.7	2.54	17.035		
800.0	797.1	796.5	793.6	1.6	1.6	122.38	-43.6	23.3	58.3	55.2	3.14	18.575		
900.0	894.3	893.5	888.0	2.1	2.0	120.12	-55.8	42.1	77.7	73.8	3.89	19.994		
1,000.0	990.2	989.2	979.9	2.6	2.5	118.40	-70.3	64.6	101.3	96.5	4.79	21.153		
1,100.0	1,084.4	1,083.3	1,068.8	3.2	3.1	117.01	-87.1	90.4	129.0	123.1	5.85	22.053		
1,200.0	1,177.0	1,175.9	1,154.7	3.9	3.7	116.07	-105.9	119.3	160.3	153.2	7.03	22.782		
1,300.0	1,269.2	1,267.0	1,237.5	4.6	4.5	114.72	-126.5	151.2	193.6	185.3	8.32	23.282		
1,400.0	1,361.5	1,357.2	1,317.6	5.3	5.2	112.72	-149.1	185.9	228.8	219.1	9.64	23.724		
1,500.0	1,453.7	1,450.2	1,399.5	6.0	6.0	110.88	-173.0	222.9	264.8	253.8	11.01	24.054		
1,600.0	1,546.0	1,543.2	1,481.4	6.8	6.9	109.48	-197.0	259.8	300.9	288.6	12.37	24.326		
1,700.0	1,638.2	1,636.2	1,563.3	7.5	7.7	108.37	-221.0	296.8	337.2	323.5	13.74	24.551		
1,800.0	1,730.4	1,729.2	1,645.3	8.2	8.5	107.48	-245.0	333.7	373.6	358.5	15.10	24.740		
1,900.0	1,822.7	1,822.2	1,727.2	9.0	9.3	106.75	-268.9	370.7	410.1	393.6	16.47	24.901		
2,000.0	1,914.9	1,915.2	1,809.1	9.7	10.2	106.14	-292.9	407.6	446.6	428.8	17.84	25.040		
2,100.0	2,007.1	2,008.2	1,891.0	10.4	11.0	105.62	-316.9	444.6	483.2	464.0	19.20	25.160		
2,200.0	2,099.4	2,101.2	1,972.9	11.2	11.8	105.18	-340.8	481.5	519.7	499.2	20.57	25.266		
2,300.0	2,191.6	2,194.2	2,054.8	11.9	12.7	104.79	-364.8	518.5	556.3	534.4	21.94	25.359		
2,400.0	2,283.9	2,287.2	2,136.7	12.6	13.5	104.45	-388.8	555.4	592.9	569.6	23.31	25.442		
2,500.0	2,376.1	2,380.2	2,218.6	13.4	14.4	104.15	-412.7	592.4	629.6	604.9	24.67	25.517		
2,600.0	2,468.3	2,473.2	2,300.5	14.1	15.2	103.88	-436.7	629.3	666.2	640.2	26.04	25.584		
2,700.0	2,560.6	2,566.2	2,382.5	14.8	16.0	103.64	-460.7	666.3	702.9	675.5	27.41	25.644		
2,800.0	2,652.8	2,659.2	2,464.4	15.6	16.9	103.43	-484.7	703.2	739.6	710.8	28.78	25.699		
2,900.0	2,745.1	2,752.2	2,546.3	16.3	17.7	103.23	-508.6	740.2	776.2	746.1	30.15	25.750		
3,000.0	2,837.3	2,845.2	2,628.2	17.1	18.6	103.05	-532.6	777.1	812.9	781.4	31.51	25.796		
3,100.0	2,929.5	2,938.2	2,710.1	17.8	19.4	102.92	-556.6	814.1	849.6	816.7	32.89	25.835		
3,200.0	3,022.8	3,059.0	2,817.9	18.4	20.4	103.75	-586.2	859.7	884.4	850.0	34.45	25.673		
3,300.0	3,117.8	3,187.5	2,936.2	19.0	21.3	104.43	-613.6	902.0	914.7	878.9	35.85	25.616		
3,400.0	3,214.3	3,319.6	3,060.9	19.4	22.0	105.01	-637.2	938.3	940.1	903.1	37.03	25.387		
3,500.0	3,312.1	3,454.7	3,191.3	19.8	22.6	105.48	-656.4	968.0	960.5	922.5	37.99	25.280		
3,600.0	3,410.8	3,592.2	3,326.2	20.1	23.1	105.87	-670.8	990.1	975.6	936.8	38.73	25.187		
3,700.0	3,510.2	3,731.3	3,464.2	20.2	23.4	106.17	-679.9	1,004.1	985.2	946.0	39.23	25.117		
3,800.0	3,610.0	3,871.3	3,604.0	20.3	23.5	106.40	-683.5	1,009.7	989.4	949.9	39.49	25.052		
3,900.0	3,710.0	3,977.3	3,710.0	20.4	23.5	179.44	-683.6	1,009.8	989.7	950.1	39.63	24.976		
4,000.0	3,810.0	4,077.3	3,810.0	20.5	23.6	179.44	-683.6	1,009.8	989.7	949.9	39.75	24.899		
4,100.0	3,910.0	4,177.3	3,910.0	20.5	23.6	179.44	-683.6	1,009.8	989.7	949.8	39.87	24.822		
4,200.0	4,010.0	4,277.3	4,010.0	20.6	23.7	179.44	-683.6	1,009.8	989.7	949.7	40.00	24.743		
4,300.0	4,110.0	4,377.3	4,110.0	20.6	23.7	179.44	-683.6	1,009.8	989.7	949.6	40.13	24.663		
4,400.0	4,210.0	4,477.3	4,210.0	20.7	23.8	179.44	-683.6	1,009.8	989.7	949.4	40.26	24.582		
4,500.0	4,310.0	4,577.3	4,310.0	20.8	23.9	179.44	-683.6	1,009.8	989.7	949.3	40.40	24.500		
4,600.0	4,410.0	4,677.3	4,410.0	20.8	23.9	179.44	-683.6	1,009.8	989.7	949.1	40.53	24.417		
4,700.0	4,510.0	4,777.3	4,510.0	20.9	24.0	179.44	-683.6	1,009.8	989.7	949.0	40.67	24.333		
4,800.0	4,610.0	4,877.3	4,610.0	21.0	24.0	179.44	-683.6	1,009.8	989.7	948.9	40.81	24.248		
4,900.0	4,710.0	4,977.3	4,710.0	21.0	24.1	179.44	-683.6	1,009.8	989.7	948.7	40.96	24.162		
5,000.0	4,810.0	5,077.3	4,810.0	21.1	24.2	179.44	-683.6	1,009.8	989.7	948.6	41.11	24.076		
5,100.0	4,910.0	5,177.3	4,910.0	21.2	24.2	179.44	-683.6	1,009.8	989.7	948.4	41.26	23.988		

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 14A-13
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.8ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.8ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 14A-13	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S14-T7S-R96W - Nolte 14D-13 - DD - Plan #3													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,200.0	5,010.0	5,277.3	5,010.0	21.3	24.3	179.44	-683.6	1,009.8	989.7	948.3	41.41	23.900		
5,300.0	5,110.0	5,377.3	5,110.0	21.3	24.4	179.44	-683.6	1,009.8	989.7	948.1	41.56	23.811		
5,400.0	5,210.0	5,477.3	5,210.0	21.4	24.4	179.44	-683.6	1,009.8	989.7	948.0	41.72	23.722		
5,500.0	5,310.0	5,577.3	5,310.0	21.5	24.5	179.44	-683.6	1,009.8	989.7	947.8	41.88	23.632		
5,600.0	5,410.0	5,677.3	5,410.0	21.6	24.6	179.44	-683.6	1,009.8	989.7	947.6	42.04	23.541		
5,700.0	5,510.0	5,777.3	5,510.0	21.6	24.6	179.44	-683.6	1,009.8	989.7	947.5	42.20	23.450		
5,800.0	5,610.0	5,877.3	5,610.0	21.7	24.7	179.44	-683.6	1,009.8	989.7	947.3	42.37	23.358		
5,900.0	5,710.0	5,977.3	5,710.0	21.8	24.8	179.44	-683.6	1,009.8	989.7	947.1	42.54	23.265		
6,000.0	5,810.0	6,077.3	5,810.0	21.9	24.9	179.44	-683.6	1,009.8	989.7	947.0	42.71	23.172		
6,060.0	5,870.0	6,097.2	5,830.0	21.9	24.9	179.44	-683.6	1,009.8	990.5	947.7	42.78	23.154		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 14A-13
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.8ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.8ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 14A-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	0.0	0.0	0.0	0.0	-62.47	4.6	-8.9	10.0						
100.0	100.0	100.0	100.0	0.1	0.1	-62.47	4.6	-8.9	10.0	9.7	0.25	39.300			
200.0	200.0	200.0	200.0	0.3	0.3	-62.47	4.6	-8.9	10.0	9.4	0.60	16.571			
300.0	300.0	300.0	300.0	0.5	0.5	-62.47	4.6	-8.9	10.0	9.0	0.95	10.499	CC, ES		
400.0	400.0	399.6	399.5	0.7	0.7	-52.57	7.2	-9.4	11.8	10.5	1.31	9.037	SF		
500.0	500.0	498.6	498.3	0.8	0.9	-116.38	14.7	-10.8	19.4	17.7	1.66	11.657			
600.0	599.6	596.4	595.2	1.0	1.1	-116.15	27.2	-13.3	33.8	31.7	2.06	16.386			
700.0	698.8	692.4	689.6	1.3	1.5	-117.75	44.0	-16.6	54.7	52.1	2.52	21.655			
800.0	797.1	785.8	780.6	1.6	1.9	-119.22	64.9	-20.6	82.0	78.9	3.07	26.666			
900.0	894.3	876.3	867.6	2.1	2.3	-120.26	89.3	-25.4	115.5	111.7	3.72	31.062			
1,000.0	990.2	963.4	950.1	2.6	2.8	-120.87	116.6	-30.7	154.9	150.4	4.45	34.767			
1,100.0	1,084.4	1,046.8	1,027.9	3.2	3.4	-121.13	146.1	-36.5	199.9	194.6	5.28	37.842			
1,200.0	1,177.0	1,126.3	1,100.8	3.9	3.9	-121.63	177.3	-42.6	250.0	243.8	6.19	40.416			
1,300.0	1,269.2	1,200.0	1,167.1	4.6	4.5	-122.17	208.9	-48.7	303.1	296.0	7.12	42.577			
1,400.0	1,361.5	1,276.9	1,234.9	5.3	5.2	-122.17	244.6	-55.7	358.6	350.5	8.11	44.225			
1,500.0	1,453.7	1,348.1	1,296.3	6.0	5.8	-121.85	279.9	-62.6	416.4	407.3	9.09	45.784			
1,600.0	1,546.0	1,416.5	1,354.0	6.8	6.5	-121.34	315.9	-69.6	476.3	466.2	10.08	47.237			
1,700.0	1,638.2	1,482.0	1,408.0	7.5	7.2	-120.74	352.3	-76.7	538.3	527.2	11.08	48.596			
1,800.0	1,730.4	1,544.8	1,458.5	8.2	7.9	-120.08	388.9	-83.8	602.2	590.2	12.07	49.894			
1,900.0	1,822.7	1,600.0	1,501.9	9.0	8.5	-119.46	422.4	-90.4	668.1	655.1	13.03	51.291			
2,000.0	1,914.9	1,665.1	1,551.8	9.7	9.2	-118.70	463.4	-98.4	735.7	721.7	14.05	52.379			
2,100.0	2,007.1	1,737.8	1,607.0	10.4	10.0	-117.94	509.7	-107.4	804.0	788.8	15.11	53.217			
2,200.0	2,099.4	1,810.4	1,662.3	11.2	10.9	-117.29	556.1	-116.5	872.3	856.1	16.17	53.956			
2,300.0	2,191.6	1,883.1	1,717.5	11.9	11.7	-116.74	602.5	-125.5	940.6	923.4	17.22	54.610			
2,400.0	2,283.9	1,955.8	1,772.7	12.6	12.5	-116.26	648.9	-134.6	1,009.1	990.8	18.28	55.193			
2,500.0	2,376.1	2,028.5	1,827.9	13.4	13.4	-115.84	695.3	-143.6	1,077.5	1,058.2	19.34	55.716			
2,600.0	2,468.3	2,101.2	1,883.2	14.1	14.2	-115.47	741.7	-152.7	1,146.0	1,125.6	20.40	56.188			
2,700.0	2,560.6	2,173.9	1,938.4	14.8	15.0	-115.14	788.1	-161.7	1,214.5	1,193.0	21.45	56.615			
2,800.0	2,652.8	2,246.6	1,993.6	15.6	15.9	-114.85	834.5	-170.8	1,283.0	1,260.5	22.51	57.004			
2,900.0	2,745.1	2,319.3	2,048.9	16.3	16.7	-114.59	880.9	-179.8	1,351.5	1,327.9	23.56	57.359			

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 14A-13
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.8ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.8ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 14A-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	0.0	0.0	0.0	0.0	-101.09	-2.5	-12.6	12.8						
100.0	100.0	100.0	100.0	0.1	0.1	-101.09	-2.5	-12.6	12.8	12.6	0.25	50.309			
200.0	200.0	200.0	200.0	0.3	0.3	-101.09	-2.5	-12.6	12.8	12.2	0.60	21.218			
300.0	300.0	300.0	300.0	0.5	0.5	-101.09	-2.5	-12.6	12.8	11.9	0.95	13.444			
343.3	343.3	343.3	343.3	0.6	0.6	-101.09	-2.5	-12.6	12.8	11.7	1.10	11.603 CC			
400.0	400.0	400.0	400.0	0.7	0.7	-98.18	-1.8	-12.7	12.8	11.5	1.30	9.871 ES, SF			
500.0	500.0	499.6	499.5	0.8	0.8	-154.35	3.2	-13.9	16.6	14.9	1.66	9.983			
600.0	599.6	598.3	597.6	1.0	1.1	-141.40	13.2	-16.2	28.2	26.2	2.06	13.733			
700.0	698.8	695.2	693.3	1.3	1.4	-135.48	27.8	-19.7	47.4	44.9	2.50	18.931			
800.0	797.1	789.7	785.8	1.6	1.7	-132.73	46.6	-24.1	73.5	70.5	3.03	24.283			
900.0	894.3	881.3	874.4	2.1	2.1	-131.21	69.0	-29.3	106.2	102.5	3.64	29.186			
1,000.0	990.2	969.4	958.6	2.6	2.6	-130.16	94.5	-35.3	145.1	140.7	4.34	33.431			
1,100.0	1,084.4	1,053.8	1,038.0	3.2	3.1	-129.28	122.4	-41.8	189.8	184.7	5.13	37.012			
1,200.0	1,177.0	1,134.3	1,112.4	3.9	3.7	-128.91	152.1	-48.8	239.8	233.9	5.99	40.019			
1,300.0	1,269.2	1,211.9	1,182.9	4.6	4.3	-128.75	183.7	-56.2	292.7	285.8	6.91	42.369			
1,400.0	1,361.5	1,286.7	1,249.6	5.3	4.9	-128.21	216.7	-64.0	347.9	340.0	7.85	44.288			
1,500.0	1,453.7	1,358.7	1,312.5	6.0	5.5	-127.46	250.9	-72.0	405.2	396.4	8.82	45.932			
1,600.0	1,546.0	1,430.9	1,374.2	6.8	6.2	-126.59	287.4	-80.5	464.7	454.9	9.80	47.395			
1,700.0	1,638.2	1,510.7	1,442.0	7.5	6.9	-125.77	328.3	-90.1	524.8	513.9	10.83	48.437			
1,800.0	1,730.4	1,590.4	1,509.7	8.2	7.6	-125.11	369.2	-99.7	584.9	573.0	11.87	49.291			
1,900.0	1,822.7	1,670.2	1,577.5	9.0	8.4	-124.57	410.1	-109.3	645.0	632.1	12.90	50.003			
2,000.0	1,914.9	1,749.9	1,645.3	9.7	9.1	-124.13	451.1	-118.9	705.2	691.3	13.94	50.605			
2,100.0	2,007.1	1,829.7	1,713.0	10.4	9.9	-123.75	492.0	-128.5	765.5	750.5	14.97	51.122			
2,200.0	2,099.4	1,909.4	1,780.8	11.2	10.6	-123.43	532.9	-138.1	825.7	809.7	16.01	51.570			
2,300.0	2,191.6	1,989.1	1,848.6	11.9	11.4	-123.16	573.8	-147.7	885.9	868.9	17.05	51.960			
2,400.0	2,283.9	2,068.9	1,916.3	12.6	12.1	-122.91	614.7	-157.3	946.2	928.1	18.09	52.304			
2,500.0	2,376.1	2,148.6	1,984.1	13.4	12.9	-122.70	655.7	-166.9	1,006.5	987.3	19.13	52.610			
2,600.0	2,468.3	2,228.4	2,051.9	14.1	13.6	-122.51	696.6	-176.5	1,066.8	1,046.6	20.17	52.883			
2,700.0	2,560.6	2,308.1	2,119.7	14.8	14.3	-122.34	737.5	-186.1	1,127.0	1,105.8	21.21	53.128			
2,800.0	2,652.8	2,387.9	2,187.4	15.6	15.1	-122.19	778.4	-195.7	1,187.3	1,165.1	22.26	53.349			
2,900.0	2,745.1	2,467.6	2,255.2	16.3	15.8	-122.06	819.3	-205.3	1,247.6	1,224.3	23.30	53.550			
3,000.0	2,837.3	2,547.3	2,323.0	17.1	16.6	-121.93	860.3	-214.9	1,307.9	1,283.6	24.34	53.733			

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 14A-13
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.8ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.8ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 14A-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	0.0	0.0	0.0	0.0	-120.47	-9.6	-16.2	18.8						
100.0	100.0	100.0	100.0	0.1	0.1	-120.47	-9.6	-16.2	18.8	18.6	0.25	73.968			
200.0	200.0	200.0	200.0	0.3	0.3	-120.47	-9.6	-16.2	18.8	18.2	0.60	31.208			
300.0	300.0	300.0	300.0	0.5	0.5	-120.47	-9.6	-16.2	18.8	17.9	0.95	19.776			
400.0	400.0	400.0	400.0	0.7	0.7	-120.47	-9.6	-16.2	18.8	17.5	1.30	14.474 CC, ES			
500.0	500.0	500.0	500.0	0.8	0.8	175.20	-7.1	-17.1	21.2	19.5	1.65	12.786 SF			
600.0	599.6	599.2	598.8	1.0	1.0	-168.39	0.2	-19.8	30.0	27.9	2.03	14.771			
700.0	698.8	696.7	695.5	1.3	1.3	-156.15	12.0	-24.1	47.0	44.6	2.44	19.242			
800.0	797.1	791.7	789.0	1.6	1.6	-148.96	28.0	-30.0	72.1	69.2	2.92	24.691			
900.0	894.3	883.7	878.5	2.1	2.0	-144.66	47.7	-37.1	104.6	101.1	3.47	30.129			
1,000.0	990.2	972.0	963.4	2.6	2.4	-141.82	70.3	-45.4	144.0	139.9	4.10	35.093			
1,100.0	1,084.4	1,057.6	1,044.7	3.2	2.9	-139.75	95.6	-54.7	189.6	184.8	4.80	39.504			
1,200.0	1,177.0	1,144.4	1,126.8	3.9	3.4	-139.05	122.2	-64.4	239.2	233.6	5.56	42.979			
1,300.0	1,269.2	1,231.0	1,208.7	4.6	3.9	-139.13	148.7	-74.0	289.3	282.9	6.36	45.456			
1,400.0	1,361.5	1,317.5	1,290.5	5.3	4.4	-139.19	175.1	-83.7	339.4	332.2	7.18	47.293			
1,500.0	1,453.7	1,404.1	1,372.3	6.0	4.9	-139.23	201.6	-93.4	389.5	381.5	8.00	48.700			
1,600.0	1,546.0	1,490.6	1,454.1	6.8	5.4	-139.26	228.1	-103.0	439.6	430.8	8.83	49.806			
1,700.0	1,638.2	1,577.1	1,535.9	7.5	5.9	-139.29	254.6	-112.7	489.7	480.0	9.66	50.696			
1,800.0	1,730.4	1,663.7	1,617.8	8.2	6.4	-139.31	281.0	-122.4	539.8	529.3	10.50	51.427			
1,900.0	1,822.7	1,750.2	1,699.6	9.0	6.9	-139.33	307.5	-132.1	589.9	578.6	11.34	52.038			
2,000.0	1,914.9	1,836.8	1,781.4	9.7	7.4	-139.35	334.0	-141.7	640.0	627.8	12.18	52.554			
2,100.0	2,007.1	1,923.3	1,863.2	10.4	7.9	-139.36	360.5	-151.4	690.1	677.1	13.02	52.996			
2,200.0	2,099.4	2,009.8	1,945.0	11.2	8.4	-139.37	386.9	-161.1	740.2	726.4	13.87	53.378			
2,300.0	2,191.6	2,096.4	2,026.9	11.9	8.9	-139.38	413.4	-170.7	790.4	775.6	14.71	53.712			
2,400.0	2,283.9	2,182.9	2,108.7	12.6	9.5	-139.39	439.9	-180.4	840.5	824.9	15.56	54.005			
2,500.0	2,376.1	2,269.5	2,190.5	13.4	10.0	-139.40	466.4	-190.1	890.6	874.2	16.41	54.266			
2,600.0	2,468.3	2,356.0	2,272.3	14.1	10.5	-139.40	492.9	-199.8	940.7	923.4	17.26	54.498			
2,700.0	2,560.6	2,442.5	2,354.1	14.8	11.0	-139.41	519.3	-209.4	990.8	972.7	18.11	54.707			
2,800.0	2,652.8	2,529.1	2,436.0	15.6	11.5	-139.42	545.8	-219.1	1,040.9	1,021.9	18.96	54.895			
2,900.0	2,745.1	2,615.6	2,517.8	16.3	12.0	-139.42	572.3	-228.8	1,091.0	1,071.2	19.81	55.066			
3,000.0	2,837.3	2,702.2	2,599.6	17.1	12.5	-139.43	598.8	-238.4	1,141.1	1,120.4	20.66	55.222			
3,100.0	2,929.5	2,788.7	2,681.4	17.8	13.1	-139.46	625.2	-248.1	1,191.2	1,169.7	21.52	55.358			
3,200.0	3,022.8	2,876.2	2,764.2	18.4	13.6	-140.43	652.0	-257.9	1,239.5	1,217.1	22.42	55.284			
3,300.0	3,117.8	2,965.5	2,848.6	19.0	14.1	-141.13	679.3	-267.9	1,284.2	1,260.9	23.28	55.154			
3,400.0	3,214.3	3,056.3	2,934.5	19.4	14.7	-141.58	707.1	-278.0	1,325.3	1,301.2	24.11	54.977			

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 14A-13
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.8ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.8ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 14A-13	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S14-T7S-R96W - Nolte 44A-14 - DD - Plan #3													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-129.86	-16.6	-19.9	26.0					
100.0	100.0	100.0	100.0	0.1	0.1	-129.86	-16.6	-19.9	26.0	25.7	0.25	101.875		
200.0	200.0	200.0	200.0	0.3	0.3	-129.86	-16.6	-19.9	26.0	25.4	0.60	43.005		
300.0	300.0	300.0	300.0	0.5	0.5	-129.86	-16.6	-19.9	26.0	25.0	0.95	27.255		
400.0	400.0	400.0	400.0	0.7	0.7	-129.86	-16.6	-19.9	26.0	24.7	1.30	19.949 CC, ES		
500.0	500.0	500.0	500.0	0.8	0.8	160.06	-16.3	-20.2	28.3	26.7	1.65	17.172 SF		
600.0	599.6	599.6	599.6	1.0	1.0	169.86	-13.2	-21.9	35.8	33.8	2.00	17.892		
700.0	698.8	698.1	697.8	1.3	1.2	-179.52	-7.3	-25.2	49.8	47.4	2.36	21.119		
800.0	797.1	794.9	794.1	1.6	1.4	-171.48	1.4	-30.1	70.9	68.2	2.73	25.961		
900.0	894.3	889.4	887.7	2.1	1.7	-165.98	12.7	-36.4	99.1	95.9	3.14	31.560		
1,000.0	990.2	981.2	978.1	2.6	2.0	-162.19	26.2	-44.0	133.9	130.3	3.59	37.302		
1,100.0	1,084.4	1,069.7	1,064.9	3.2	2.3	-159.45	41.6	-52.6	175.1	171.0	4.09	42.814		
1,200.0	1,177.0	1,154.8	1,147.7	3.9	2.6	-157.56	58.6	-62.2	221.9	217.2	4.65	47.711		
1,300.0	1,269.2	1,237.9	1,228.0	4.6	3.0	-156.13	77.2	-72.7	270.8	265.6	5.28	51.335		
1,400.0	1,361.5	1,319.1	1,305.8	5.3	3.4	-154.74	97.4	-84.0	321.3	315.4	5.94	54.074		
1,500.0	1,453.7	1,398.8	1,381.5	6.0	3.8	-153.40	119.1	-96.2	373.4	366.7	6.65	56.183		
1,600.0	1,546.0	1,483.4	1,461.5	6.8	4.3	-152.18	143.0	-109.6	426.2	418.8	7.39	57.675		
1,700.0	1,638.2	1,567.9	1,541.6	7.5	4.8	-151.23	166.9	-123.1	479.2	471.0	8.14	58.858		
1,800.0	1,730.4	1,652.5	1,621.6	8.2	5.3	-150.47	190.8	-136.5	532.2	523.3	8.90	59.814		
1,900.0	1,822.7	1,737.1	1,701.6	9.0	5.8	-149.84	214.7	-149.9	585.3	575.6	9.66	60.602		
2,000.0	1,914.9	1,821.7	1,781.7	9.7	6.3	-149.32	238.6	-163.3	638.4	628.0	10.42	61.260		
2,100.0	2,007.1	1,906.3	1,861.7	10.4	6.8	-148.88	262.5	-176.8	691.6	680.4	11.19	61.817		
2,200.0	2,099.4	1,990.9	1,941.7	11.2	7.3	-148.50	286.4	-190.2	744.7	732.8	11.96	62.294		
2,300.0	2,191.6	2,075.5	2,021.7	11.9	7.8	-148.18	310.2	-203.6	797.9	785.2	12.72	62.707		
2,400.0	2,283.9	2,160.1	2,101.8	12.6	8.3	-147.89	334.1	-217.1	851.2	837.7	13.50	63.068		
2,500.0	2,376.1	2,244.7	2,181.8	13.4	8.8	-147.64	358.0	-230.5	904.4	890.1	14.27	63.386		
2,600.0	2,468.3	2,329.3	2,261.8	14.1	9.3	-147.41	381.9	-243.9	957.6	942.6	15.04	63.669		
2,700.0	2,560.6	2,436.7	2,364.0	14.8	9.8	-147.24	410.9	-260.2	1,010.0	994.2	15.87	63.639		
2,800.0	2,652.8	2,550.7	2,473.6	15.6	10.4	-147.28	438.0	-275.4	1,060.2	1,043.6	16.67	63.617		
2,900.0	2,745.1	2,668.0	2,587.6	16.3	10.9	-147.53	461.9	-288.9	1,108.1	1,090.7	17.41	63.651		
3,000.0	2,837.3	2,788.4	2,705.8	17.1	11.3	-147.96	482.2	-300.3	1,153.5	1,135.4	18.09	63.753		
3,100.0	2,929.5	2,911.6	2,827.6	17.8	11.7	-148.58	498.5	-309.4	1,196.5	1,177.8	18.71	63.943		
3,200.0	3,022.8	3,038.7	2,953.9	18.4	11.9	-149.89	510.4	-316.1	1,234.7	1,215.4	19.32	63.899		
3,300.0	3,117.8	3,170.2	3,085.1	19.0	12.1	-151.05	517.6	-320.2	1,266.1	1,246.3	19.83	63.848		
3,400.0	3,214.3	3,299.4	3,214.3	19.4	12.2	-152.07	519.6	-321.3	1,290.3	1,270.1	20.23	63.796		
3,500.0	3,312.1	3,397.2	3,312.1	19.8	12.3	-152.76	519.6	-321.3	1,309.1	1,288.5	20.56	63.682		
3,600.0	3,410.8	3,495.9	3,410.8	20.1	12.4	-153.27	519.6	-321.3	1,323.3	1,302.4	20.85	63.476		
3,700.0	3,510.2	3,595.3	3,510.2	20.2	12.5	-153.61	519.6	-321.3	1,332.9	1,311.8	21.10	63.169		
3,800.0	3,610.0	3,695.1	3,610.0	20.3	12.6	-153.78	519.6	-321.3	1,337.8	1,316.5	21.32	62.757		
3,900.0	3,710.0	3,795.1	3,710.0	20.4	12.7	-80.82	519.6	-321.3	1,338.5	1,317.0	21.52	62.191		
4,000.0	3,810.0	3,895.1	3,810.0	20.5	12.8	-80.82	519.6	-321.3	1,338.5	1,316.8	21.74	61.568		
4,100.0	3,910.0	3,995.1	3,910.0	20.5	12.9	-80.82	519.6	-321.3	1,338.5	1,316.6	21.96	60.947		
4,200.0	4,010.0	4,095.1	4,010.0	20.6	13.0	-80.82	519.6	-321.3	1,338.5	1,316.3	22.19	60.330		
4,300.0	4,110.0	4,195.1	4,110.0	20.6	13.0	-80.82	519.6	-321.3	1,338.5	1,316.1	22.41	59.716		
4,400.0	4,210.0	4,295.1	4,210.0	20.7	13.1	-80.82	519.6	-321.3	1,338.5	1,315.9	22.65	59.107		
4,500.0	4,310.0	4,395.1	4,310.0	20.8	13.2	-80.82	519.6	-321.3	1,338.5	1,315.6	22.88	58.503		
4,600.0	4,410.0	4,495.1	4,410.0	20.8	13.3	-80.82	519.6	-321.3	1,338.5	1,315.4	23.12	57.904		
4,700.0	4,510.0	4,595.1	4,510.0	20.9	13.5	-80.82	519.6	-321.3	1,338.5	1,315.2	23.36	57.309		
4,800.0	4,610.0	4,695.1	4,610.0	21.0	13.6	-80.82	519.6	-321.3	1,338.5	1,314.9	23.60	56.721		
4,900.0	4,710.0	4,795.1	4,710.0	21.0	13.7	-80.82	519.6	-321.3	1,338.5	1,314.7	23.84	56.138		
5,000.0	4,810.0	4,895.1	4,810.0	21.1	13.8	-80.82	519.6	-321.3	1,338.5	1,314.4	24.09	55.561		
5,100.0	4,910.0	4,995.1	4,910.0	21.2	13.9	-80.82	519.6	-321.3	1,338.5	1,314.2	24.34	54.990		

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 14A-13
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.8ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.8ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 14A-13	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S14-T7S-R96W - Nolte 44A-14 - DD - Plan #3													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,200.0	5,010.0	5,095.1	5,010.0	21.3	14.0	-80.82	519.6	-321.3	1,338.5	1,313.9	24.59	54.425		
5,300.0	5,110.0	5,195.1	5,110.0	21.3	14.1	-80.82	519.6	-321.3	1,338.5	1,313.7	24.85	53.867		
5,400.0	5,210.0	5,295.1	5,210.0	21.4	14.2	-80.82	519.6	-321.3	1,338.5	1,313.4	25.11	53.316		
5,500.0	5,310.0	5,395.1	5,310.0	21.5	14.3	-80.82	519.6	-321.3	1,338.5	1,313.2	25.36	52.771		
5,600.0	5,410.0	5,495.1	5,410.0	21.6	14.4	-80.82	519.6	-321.3	1,338.5	1,312.9	25.63	52.232		
5,700.0	5,510.0	5,595.1	5,510.0	21.6	14.6	-80.82	519.6	-321.3	1,338.5	1,312.6	25.89	51.701		
5,800.0	5,610.0	5,695.1	5,610.0	21.7	14.7	-80.82	519.6	-321.3	1,338.5	1,312.4	26.16	51.176		
5,900.0	5,710.0	5,795.1	5,710.0	21.8	14.8	-80.82	519.6	-321.3	1,338.5	1,312.1	26.42	50.658		
6,000.0	5,810.0	5,895.1	5,810.0	21.9	14.9	-80.82	519.6	-321.3	1,338.5	1,311.8	26.69	50.147		
6,020.0	5,830.0	5,915.1	5,830.0	21.9	14.9	-80.82	519.6	-321.3	1,338.5	1,311.8	26.75	50.045		
6,060.0	5,870.0	5,925.1	5,840.0	21.9	14.9	-80.82	519.6	-321.3	1,338.9	1,312.0	26.81	49.931		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 14A-13
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.8ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.8ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 14A-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 Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-135.12	-23.7	-23.6	33.5					
100.0	100.0	100.0	100.0	0.1	0.1	-135.12	-23.7	-23.6	33.5	33.3	0.26	131.332		
200.0	200.0	200.0	200.0	0.3	0.3	-135.12	-23.7	-23.6	33.5	32.9	0.60	55.457		
300.0	300.0	300.0	300.0	0.5	0.5	-135.12	-23.7	-23.6	33.5	32.6	0.95	35.150		
400.0	400.0	400.0	400.0	0.7	0.7	-135.12	-23.7	-23.6	33.5	32.2	1.30	25.729 CC, ES		
500.0	500.0	500.0	500.0	0.8	0.8	153.83	-23.7	-23.6	35.8	34.2	1.65	21.704 SF		
600.0	599.6	598.7	598.7	1.0	1.0	161.42	-22.5	-25.9	44.0	42.0	2.00	22.023		
700.0	698.8	695.5	695.2	1.3	1.2	171.74	-18.8	-32.3	60.6	58.3	2.35	25.820		
800.0	797.1	791.2	790.3	1.6	1.4	179.61	-13.4	-41.8	85.9	83.2	2.69	31.926		
900.0	894.3	886.0	884.4	2.1	1.6	-176.14	-8.0	-51.3	117.2	114.1	3.03	38.671		
1,000.0	990.2	978.9	976.7	2.6	1.9	-173.81	-2.6	-60.7	153.6	150.3	3.36	45.662		
1,100.0	1,084.4	1,069.9	1,067.0	3.2	2.1	-172.48	2.6	-69.9	195.0	191.3	3.70	52.774		
1,200.0	1,177.0	1,158.8	1,155.4	3.9	2.3	-171.79	7.7	-78.8	240.7	236.7	4.04	59.568		
1,300.0	1,269.2	1,247.4	1,243.3	4.6	2.5	-171.43	12.8	-87.7	287.2	282.7	4.41	65.043		
1,400.0	1,361.5	1,335.9	1,331.3	5.3	2.8	-171.16	17.9	-96.7	333.6	328.8	4.79	69.619		
1,500.0	1,453.7	1,424.5	1,419.2	6.0	3.0	-170.97	23.0	-105.6	380.1	374.9	5.17	73.495		
1,600.0	1,546.0	1,513.0	1,507.2	6.8	3.2	-170.81	28.0	-114.5	426.5	421.0	5.55	76.815		
1,700.0	1,638.2	1,601.6	1,595.1	7.5	3.5	-170.69	33.1	-123.4	473.0	467.1	5.94	79.687		
1,800.0	1,730.4	1,690.1	1,683.1	8.2	3.7	-170.58	38.2	-132.3	519.5	513.1	6.32	82.196		
1,900.0	1,822.7	1,778.7	1,771.0	9.0	3.9	-170.50	43.3	-141.2	565.9	559.2	6.70	84.404		
2,000.0	1,914.9	1,867.2	1,859.0	9.7	4.2	-170.43	48.4	-150.2	612.4	605.3	7.09	86.361		
2,100.0	2,007.1	1,955.7	1,946.9	10.4	4.4	-170.36	53.5	-159.1	658.8	651.4	7.48	88.108		
2,200.0	2,099.4	2,044.3	2,034.9	11.2	4.6	-170.31	58.5	-168.0	705.3	697.5	7.87	89.677		
2,300.0	2,191.6	2,132.8	2,122.8	11.9	4.9	-170.26	63.6	-176.9	751.8	743.5	8.25	91.092		
2,400.0	2,283.9	2,221.4	2,210.8	12.6	5.1	-170.22	68.7	-185.8	798.3	789.6	8.64	92.375		
2,500.0	2,376.1	2,309.9	2,298.7	13.4	5.3	-170.18	73.8	-194.7	844.7	835.7	9.03	93.544		
2,600.0	2,468.3	2,398.5	2,386.7	14.1	5.6	-170.15	78.9	-203.7	891.2	881.8	9.42	94.613		
2,700.0	2,560.6	2,487.0	2,474.6	14.8	5.8	-170.12	83.9	-212.6	937.7	927.8	9.81	95.594		
2,800.0	2,652.8	2,575.6	2,562.6	15.6	6.0	-170.09	89.0	-221.5	984.1	973.9	10.20	96.498		
2,900.0	2,745.1	2,664.1	2,650.5	16.3	6.3	-170.07	94.1	-230.4	1,030.6	1,020.0	10.59	97.333		
3,000.0	2,837.3	2,752.7	2,738.5	17.1	6.5	-170.04	99.2	-239.3	1,077.1	1,066.1	10.98	98.107		
3,100.0	2,929.5	2,841.2	2,826.4	17.8	6.7	-170.03	104.3	-248.2	1,123.5	1,112.2	11.37	98.808		
3,200.0	3,022.8	2,931.0	2,915.6	18.4	7.0	-170.24	109.4	-257.3	1,167.6	1,155.7	11.83	98.656		
3,300.0	3,117.8	3,022.9	3,006.9	19.0	7.2	-170.37	114.7	-266.5	1,206.9	1,194.7	12.29	98.212		
3,400.0	3,214.3	3,116.7	3,100.0	19.4	7.5	-170.42	120.1	-276.0	1,241.5	1,228.8	12.73	97.515		
3,500.0	3,312.1	3,212.1	3,194.8	19.8	7.7	-170.42	125.6	-285.6	1,271.2	1,258.1	13.16	96.597		
3,600.0	3,410.8	3,308.9	3,290.9	20.1	8.0	-170.35	131.1	-295.3	1,296.0	1,282.4	13.57	95.488		
3,700.0	3,510.2	3,406.8	3,388.2	20.2	8.3	-170.22	136.7	-305.2	1,315.7	1,301.7	13.97	94.210		
3,800.0	3,610.0	3,610.4	3,591.2	20.3	8.6	-169.99	143.9	-317.7	1,327.1	1,312.6	14.49	91.556		
3,900.0	3,710.0	3,729.2	3,710.0	20.4	8.8	-97.01	144.0	-317.9	1,327.9	1,313.1	14.81	89.641		
4,000.0	3,810.0	3,829.2	3,810.0	20.5	8.9	-97.01	144.0	-317.9	1,327.9	1,312.8	15.13	87.790		
4,100.0	3,910.0	3,929.2	3,910.0	20.5	9.0	-97.01	144.0	-317.9	1,327.9	1,312.5	15.44	86.006		
4,200.0	4,010.0	4,029.2	4,010.0	20.6	9.2	-97.01	144.0	-317.9	1,327.9	1,312.2	15.76	84.284		
4,300.0	4,110.0	4,129.2	4,110.0	20.6	9.3	-97.01	144.0	-317.9	1,327.9	1,311.9	16.07	82.623		
4,400.0	4,210.0	4,229.2	4,210.0	20.7	9.4	-97.01	144.0	-317.9	1,327.9	1,311.6	16.39	81.019		
4,500.0	4,310.0	4,329.2	4,310.0	20.8	9.6	-97.01	144.0	-317.9	1,327.9	1,311.2	16.71	79.471		
4,600.0	4,410.0	4,429.2	4,410.0	20.8	9.7	-97.01	144.0	-317.9	1,327.9	1,310.9	17.03	77.975		
4,700.0	4,510.0	4,529.2	4,510.0	20.9	9.9	-97.01	144.0	-317.9	1,327.9	1,310.6	17.35	76.530		
4,800.0	4,610.0	4,629.2	4,610.0	21.0	10.0	-97.01	144.0	-317.9	1,327.9	1,310.3	17.67	75.133		
4,900.0	4,710.0	4,729.2	4,710.0	21.0	10.1	-97.01	144.0	-317.9	1,327.9	1,309.9	18.00	73.782		
5,000.0	4,810.0	4,829.2	4,810.0	21.1	10.3	-97.01	144.0	-317.9	1,327.9	1,309.6	18.32	72.475		
5,100.0	4,910.0	4,929.2	4,910.0	21.2	10.4	-97.01	144.0	-317.9	1,327.9	1,309.3	18.65	71.210		

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 14A-13
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.8ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.8ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 14A-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						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,200.0	5,010.0	5,029.2	5,010.0	21.3	10.6	-97.01	144.0	-317.9	1,327.9	1,309.0	18.97	69.986		
5,300.0	5,110.0	5,129.2	5,110.0	21.3	10.7	-97.01	144.0	-317.9	1,327.9	1,308.6	19.30	68.800		
5,400.0	5,210.0	5,229.2	5,210.0	21.4	10.9	-97.01	144.0	-317.9	1,327.9	1,308.3	19.63	67.651		
5,500.0	5,310.0	5,329.2	5,310.0	21.5	11.0	-97.01	144.0	-317.9	1,327.9	1,308.0	19.96	66.537		
5,600.0	5,410.0	5,429.2	5,410.0	21.6	11.2	-97.01	144.0	-317.9	1,327.9	1,307.7	20.29	65.457		
5,700.0	5,510.0	5,529.2	5,510.0	21.6	11.3	-97.01	144.0	-317.9	1,327.9	1,307.3	20.62	64.410		
5,800.0	5,610.0	5,629.2	5,610.0	21.7	11.4	-97.01	144.0	-317.9	1,327.9	1,307.0	20.95	63.394		
5,900.0	5,710.0	5,729.2	5,710.0	21.8	11.6	-97.01	144.0	-317.9	1,327.9	1,306.7	21.28	62.407		
6,000.0	5,810.0	5,829.2	5,810.0	21.9	11.7	-97.01	144.0	-317.9	1,327.9	1,306.3	21.61	61.449		
6,060.0	5,870.0	5,834.2	5,815.0	21.9	11.8	-97.01	144.0	-317.9	1,329.1	1,307.4	21.72	61.195		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well Nolte 14A-13
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.8ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.8ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 14A-13	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S14-T7S-R96W - Nolte 44C-14 - DD - Plan #3													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total 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	0.0	0.0	0.0	0.0	-138.44	-30.8	-27.3	41.2					
100.0	100.0	100.0	100.0	0.1	0.1	-138.44	-30.8	-27.3	41.2	41.0	0.26	161.411		
200.0	200.0	200.0	200.0	0.3	0.3	-138.44	-30.8	-27.3	41.2	40.6	0.60	68.188		
300.0	300.0	300.0	300.0	0.5	0.5	-138.44	-30.8	-27.3	41.2	40.3	0.95	43.224		
400.0	400.0	400.0	400.0	0.7	0.7	-138.44	-30.8	-27.3	41.2	39.9	1.30	31.640 CC, ES		
500.0	500.0	498.1	498.0	0.8	0.8	152.18	-31.3	-29.8	45.6	43.9	1.65	27.611 SF		
600.0	599.6	594.7	594.4	1.0	1.0	159.41	-32.7	-36.9	59.3	57.3	2.00	29.701		
700.0	698.8	690.0	689.1	1.3	1.2	163.27	-37.8	-45.7	82.1	79.8	2.33	35.261		
800.0	797.1	785.6	784.0	1.6	1.5	165.42	-44.5	-54.8	111.1	108.5	2.66	41.790		
900.0	894.3	879.5	877.3	2.1	1.7	167.07	-51.1	-63.7	145.1	142.1	2.98	48.646		
1,000.0	990.2	971.6	968.7	2.6	1.9	168.34	-57.6	-72.4	184.0	180.7	3.30	55.767		
1,100.0	1,084.4	1,061.5	1,058.0	3.2	2.2	169.33	-63.9	-80.9	227.6	224.0	3.61	63.119		
1,200.0	1,177.0	1,149.2	1,145.1	3.9	2.4	170.22	-70.0	-89.2	275.4	271.5	3.92	70.279		
1,300.0	1,269.2	1,236.5	1,231.8	4.6	2.6	171.00	-76.2	-97.5	324.1	319.8	4.25	76.195		
1,400.0	1,361.5	1,323.8	1,318.5	5.3	2.8	171.57	-82.3	-105.8	372.7	368.2	4.59	81.262		
1,500.0	1,453.7	1,411.1	1,405.2	6.0	3.1	172.01	-88.4	-114.1	421.4	416.5	4.92	85.649		
1,600.0	1,546.0	1,498.4	1,491.9	6.8	3.3	172.36	-94.6	-122.3	470.2	464.9	5.25	89.484		
1,700.0	1,638.2	1,585.7	1,578.6	7.5	3.5	172.64	-100.7	-130.6	518.9	513.3	5.59	92.864		
1,800.0	1,730.4	1,673.0	1,665.2	8.2	3.8	172.87	-106.8	-138.9	567.6	561.7	5.92	95.866		
1,900.0	1,822.7	1,760.3	1,751.9	9.0	4.0	173.07	-112.9	-147.2	616.4	610.1	6.25	98.551		
2,000.0	1,914.9	1,847.6	1,838.6	9.7	4.2	173.24	-119.1	-155.4	665.1	658.5	6.59	100.965		
2,100.0	2,007.1	1,934.9	1,925.3	10.4	4.5	173.38	-125.2	-163.7	713.8	706.9	6.92	103.149		
2,200.0	2,099.4	2,022.2	2,012.0	11.2	4.7	173.51	-131.3	-172.0	762.6	755.3	7.25	105.133		
2,300.0	2,191.6	2,109.5	2,098.7	11.9	4.9	173.62	-137.5	-180.3	811.3	803.8	7.59	106.943		
2,400.0	2,283.9	2,196.8	2,185.4	12.6	5.2	173.72	-143.6	-188.5	860.1	852.2	7.92	108.601		
2,500.0	2,376.1	2,284.1	2,272.1	13.4	5.4	173.81	-149.7	-196.8	908.9	900.6	8.25	110.126		
2,600.0	2,468.3	2,371.4	2,358.8	14.1	5.6	173.89	-155.8	-205.1	957.6	949.0	8.59	111.534		
2,700.0	2,560.6	2,458.7	2,445.5	14.8	5.9	173.96	-162.0	-213.3	1,006.4	997.4	8.92	112.836		
2,800.0	2,652.8	2,546.0	2,532.2	15.6	6.1	174.03	-168.1	-221.6	1,055.1	1,045.9	9.25	114.045		
2,900.0	2,745.1	2,633.3	2,618.9	16.3	6.4	174.09	-174.2	-229.9	1,103.9	1,094.3	9.58	115.170		
3,000.0	2,837.3	2,720.6	2,705.5	17.1	6.6	174.14	-180.4	-238.2	1,152.6	1,142.7	9.92	116.220		
3,100.0	2,929.5	2,807.9	2,792.2	17.8	6.8	174.19	-186.5	-246.4	1,201.4	1,191.2	10.25	117.178		
3,200.0	3,022.8	2,896.5	2,880.2	18.4	7.1	174.38	-192.7	-254.8	1,247.8	1,237.1	10.67	116.990		
3,300.0	3,117.8	2,987.4	2,970.5	19.0	7.3	174.52	-199.1	-263.5	1,289.4	1,278.4	11.07	116.489		
3,400.0	3,214.3	3,080.3	3,062.7	19.4	7.6	174.61	-205.6	-272.3	1,326.3	1,314.9	11.46	115.714		

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 14A-13
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.8ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.8ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 14A-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 Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-140.70	-37.9	-31.0	49.0					
100.0	100.0	100.0	100.0	0.1	0.1	-140.70	-37.9	-31.0	49.0	48.8	0.26	191.812		
200.0	200.0	200.0	200.0	0.3	0.3	-140.70	-37.9	-31.0	49.0	48.4	0.60	81.063		
300.0	300.0	300.0	300.0	0.5	0.5	-140.70	-37.9	-31.0	49.0	48.1	0.95	51.391		
400.0	400.0	400.0	400.0	0.7	0.7	-140.70	-37.9	-31.0	49.0	47.7	1.30	37.620 CC, ES		
500.0	500.0	500.0	500.0	0.8	0.8	147.91	-37.9	-31.0	51.2	49.6	1.65	30.995		
600.0	599.6	599.6	599.6	1.0	1.0	151.93	-37.9	-31.0	58.0	56.0	2.00	28.950 SF		
700.0	698.8	698.8	698.8	1.3	1.2	156.83	-37.9	-31.0	69.8	67.4	2.35	29.649		
800.0	797.1	797.1	797.1	1.6	1.3	161.39	-37.9	-31.0	86.9	84.2	2.70	32.198		
900.0	894.3	894.3	894.3	2.1	1.5	165.12	-37.9	-31.0	109.3	106.3	3.03	36.058		
1,000.0	990.2	990.2	990.2	2.6	1.7	167.98	-37.9	-31.0	137.0	133.6	3.35	40.874		
1,100.0	1,084.4	1,084.4	1,084.4	3.2	1.8	170.15	-37.9	-31.0	169.8	166.2	3.66	46.418		
1,200.0	1,177.0	1,177.0	1,177.0	3.9	2.0	171.84	-37.9	-31.0	207.3	203.3	3.97	52.209		
1,300.0	1,269.2	1,269.2	1,269.2	4.6	2.2	173.12	-37.9	-31.0	245.6	241.3	4.30	57.112		
1,400.0	1,361.5	1,361.5	1,361.5	5.3	2.3	174.05	-37.9	-31.0	284.0	279.4	4.63	61.338		
1,500.0	1,453.7	1,453.7	1,453.7	6.0	2.5	174.76	-37.9	-31.0	322.5	317.5	4.96	65.015		
1,600.0	1,546.0	1,546.0	1,546.0	6.8	2.7	175.32	-37.9	-31.0	361.0	355.7	5.29	68.241		
1,700.0	1,638.2	1,638.2	1,638.2	7.5	2.8	175.77	-37.9	-31.0	399.5	393.9	5.62	71.093		
1,800.0	1,730.4	1,730.4	1,730.4	8.2	3.0	176.14	-37.9	-31.0	438.1	432.1	5.95	73.632		
1,900.0	1,822.7	1,822.7	1,822.7	9.0	3.1	176.46	-37.9	-31.0	476.6	470.3	6.28	75.907		
2,000.0	1,914.9	1,914.9	1,914.9	9.7	3.3	176.72	-37.9	-31.0	515.2	508.6	6.61	77.956		
2,100.0	2,007.1	2,007.1	2,007.1	10.4	3.5	176.95	-37.9	-31.0	553.8	546.8	6.94	79.811		
2,200.0	2,099.4	2,099.4	2,099.4	11.2	3.6	177.15	-37.9	-31.0	592.3	585.1	7.27	81.498		
2,300.0	2,191.6	2,191.6	2,191.6	11.9	3.8	177.32	-37.9	-31.0	630.9	623.3	7.60	83.039		
2,400.0	2,283.9	2,283.9	2,283.9	12.6	3.9	177.48	-37.9	-31.0	669.5	661.6	7.93	84.452		
2,500.0	2,376.1	2,376.1	2,376.1	13.4	4.1	177.62	-37.9	-31.0	708.1	699.9	8.26	85.752		
2,600.0	2,468.3	2,468.3	2,468.3	14.1	4.3	177.74	-37.9	-31.0	746.7	738.1	8.59	86.952		
2,700.0	2,560.6	2,560.6	2,560.6	14.8	4.4	177.85	-37.9	-31.0	785.3	776.4	8.92	88.064		
2,800.0	2,652.8	2,652.8	2,652.8	15.6	4.6	177.95	-37.9	-31.0	823.9	814.7	9.25	89.096		
2,900.0	2,745.1	2,745.1	2,745.1	16.3	4.7	178.04	-37.9	-31.0	862.5	853.0	9.58	90.057		
3,000.0	2,837.3	2,837.3	2,837.3	17.1	4.9	178.13	-37.9	-31.0	901.1	891.2	9.91	90.954		
3,100.0	2,929.5	2,929.5	2,929.5	17.8	5.1	178.20	-37.9	-31.0	939.8	929.5	10.24	91.775		
3,200.0	3,022.8	3,022.8	3,022.8	18.4	5.2	178.31	-37.9	-31.0	978.5	965.2	10.65	91.650		
3,300.0	3,117.8	3,117.8	3,117.8	19.0	5.4	178.39	-37.9	-31.0	1,006.9	995.9	11.04	91.192		
3,400.0	3,214.3	3,214.3	3,214.3	19.4	5.6	178.45	-37.9	-31.0	1,033.1	1,021.6	11.42	90.439		
3,500.0	3,312.1	3,312.1	3,312.1	19.8	5.7	178.50	-37.9	-31.0	1,054.1	1,042.3	11.79	89.424		
3,600.0	3,410.8	3,410.8	3,410.8	20.1	5.9	178.53	-37.9	-31.0	1,070.0	1,057.9	12.14	88.171		
3,700.0	3,510.2	3,510.2	3,510.2	20.2	6.1	178.55	-37.9	-31.0	1,080.7	1,068.2	12.46	86.702		
3,800.0	3,610.0	3,610.0	3,610.0	20.3	6.3	178.57	-37.9	-31.0	1,086.2	1,073.4	12.77	85.034		
3,900.0	3,710.0	3,710.0	3,710.0	20.4	6.4	-108.45	-37.9	-31.0	1,087.0	1,073.9	13.09	83.020		
4,000.0	3,810.0	3,810.0	3,810.0	20.5	6.6	-108.45	-37.9	-31.0	1,087.0	1,073.5	13.44	80.849		
4,100.0	3,910.0	3,910.0	3,910.0	20.5	6.8	-108.45	-37.9	-31.0	1,087.0	1,073.2	13.80	78.790		
4,200.0	4,010.0	4,010.0	4,010.0	20.6	7.0	-108.45	-37.9	-31.0	1,087.0	1,072.8	14.15	76.834		
4,300.0	4,110.0	4,110.0	4,110.0	20.6	7.1	-108.45	-37.9	-31.0	1,087.0	1,072.5	14.50	74.973		
4,400.0	4,210.0	4,210.0	4,210.0	20.7	7.3	-108.45	-37.9	-31.0	1,087.0	1,072.1	14.85	73.200		
4,500.0	4,310.0	4,310.0	4,310.0	20.8	7.5	-108.45	-37.9	-31.0	1,087.0	1,071.8	15.20	71.510		
4,600.0	4,410.0	4,410.0	4,410.0	20.8	7.7	-108.45	-37.9	-31.0	1,087.0	1,071.4	15.55	69.897		
4,700.0	4,510.0	4,510.0	4,510.0	20.9	7.8	-108.45	-37.9	-31.0	1,087.0	1,071.1	15.90	68.355		
4,800.0	4,610.0	4,610.0	4,610.0	21.0	8.0	-108.45	-37.9	-31.0	1,087.0	1,070.7	16.25	66.880		
4,900.0	4,710.0	4,710.0	4,710.0	21.0	8.2	-108.45	-37.9	-31.0	1,087.0	1,070.4	16.60	65.467		
5,000.0	4,810.0	4,810.0	4,810.0	21.1	8.3	-108.45	-37.9	-31.0	1,087.0	1,070.0	16.95	64.113		
5,100.0	4,910.0	4,910.0	4,910.0	21.2	8.5	-108.45	-37.9	-31.0	1,087.0	1,069.7	17.30	62.815		

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 14A-13
Project:	Garfield County, CO	TVD Reference:	WELL @ 5117.8ft (Original Well Elev)
Reference Site:	S14-T7S-R96W	MD Reference:	WELL @ 5117.8ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Nolte 14A-13	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

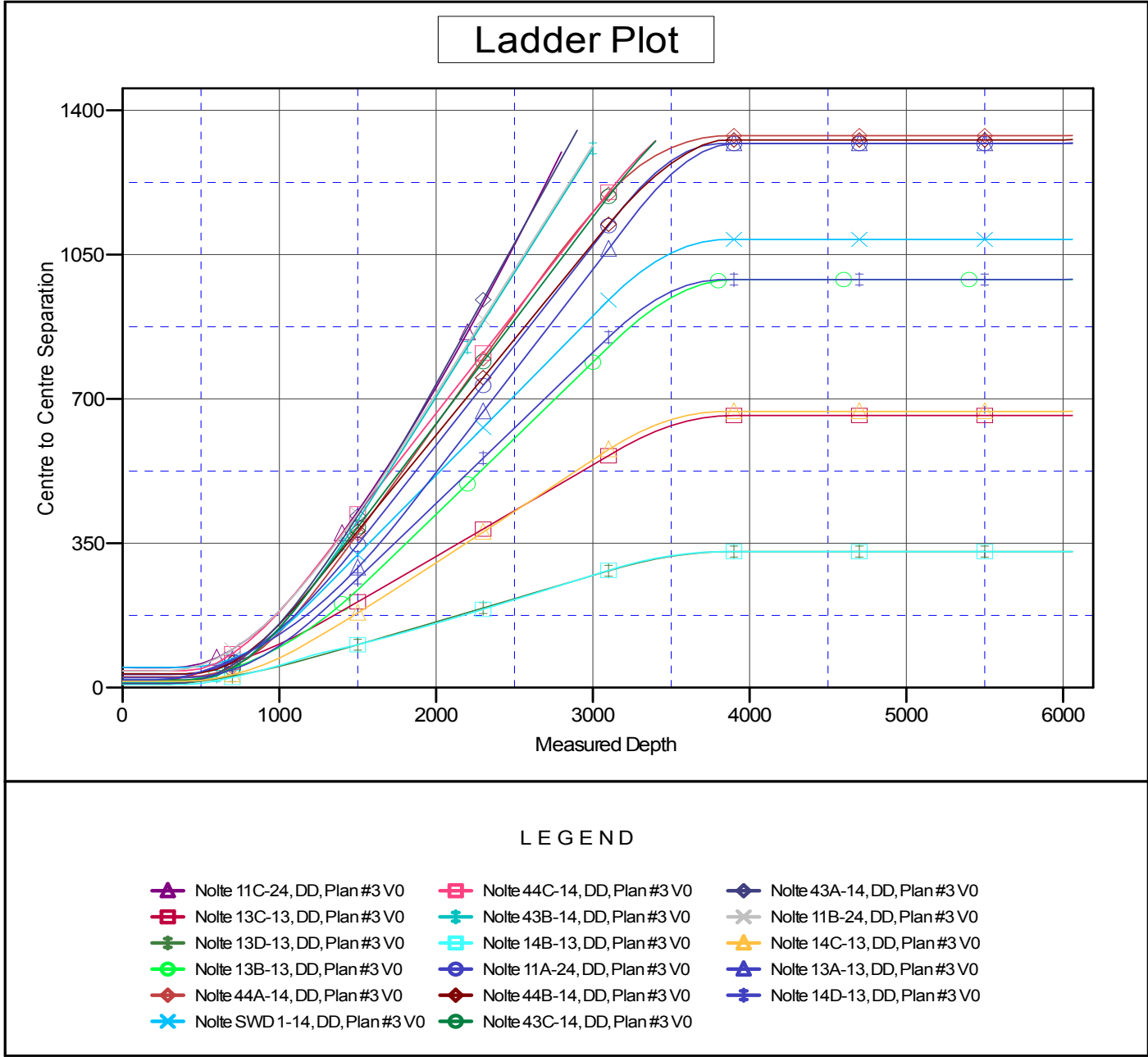
Offset Design S14-T7S-R96W - Nolte SWD 1-14 - DD - Plan #3													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,200.0	5,010.0	5,010.0	5,010.0	21.3	8.7	-108.45	-37.9	-31.0	1,087.0	1,069.3	17.66	61.568		
5,300.0	5,110.0	5,110.0	5,110.0	21.3	8.9	-108.45	-37.9	-31.0	1,087.0	1,069.0	18.01	60.369		
5,400.0	5,210.0	5,210.0	5,210.0	21.4	9.0	-108.45	-37.9	-31.0	1,087.0	1,068.6	18.36	59.217		
5,500.0	5,310.0	5,310.0	5,310.0	21.5	9.2	-108.45	-37.9	-31.0	1,087.0	1,068.3	18.71	58.108		
5,600.0	5,410.0	5,410.0	5,410.0	21.6	9.4	-108.45	-37.9	-31.0	1,087.0	1,067.9	19.06	57.040		
5,700.0	5,510.0	5,510.0	5,510.0	21.6	9.6	-108.45	-37.9	-31.0	1,087.0	1,067.6	19.41	56.011		
5,800.0	5,610.0	5,610.0	5,610.0	21.7	9.7	-108.45	-37.9	-31.0	1,087.0	1,067.2	19.76	55.018		
5,900.0	5,710.0	5,710.0	5,710.0	21.8	9.9	-108.45	-37.9	-31.0	1,087.0	1,066.9	20.11	54.060		
6,000.0	5,810.0	5,810.0	5,810.0	21.9	10.1	-108.45	-37.9	-31.0	1,087.0	1,066.5	20.46	53.134		
6,060.0	5,870.0	5,870.0	5,870.0	21.9	10.2	-108.45	-37.9	-31.0	1,087.0	1,066.3	20.67	52.595		

Cathedral Energy Services

Anticollision Report

Company: Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference: Well Nolte 14A-13	
Project: Garfield County, CO	TVD Reference: WELL @ 5117.8ft (Original Well Elev)	
Reference Site: S14-T7S-R96W	MD Reference: WELL @ 5117.8ft (Original Well Elev)	
Site Error: 0.0ft	North Reference: True	
Reference Well: Nolte 14A-13	Survey Calculation Method: Minimum Curvature	
Well Error: 0.0ft	Output errors are at 2.00 sigma	
Reference Wellbore DD	Database: USA EDM 5000 Multi Users DB	
Reference Design: Plan #3	Offset TVD Reference: Offset Datum	

Reference Depths are relative to WELL @ 5117.8ft (Original Well Elev) Coordinates are relative to: Nolte 14A-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