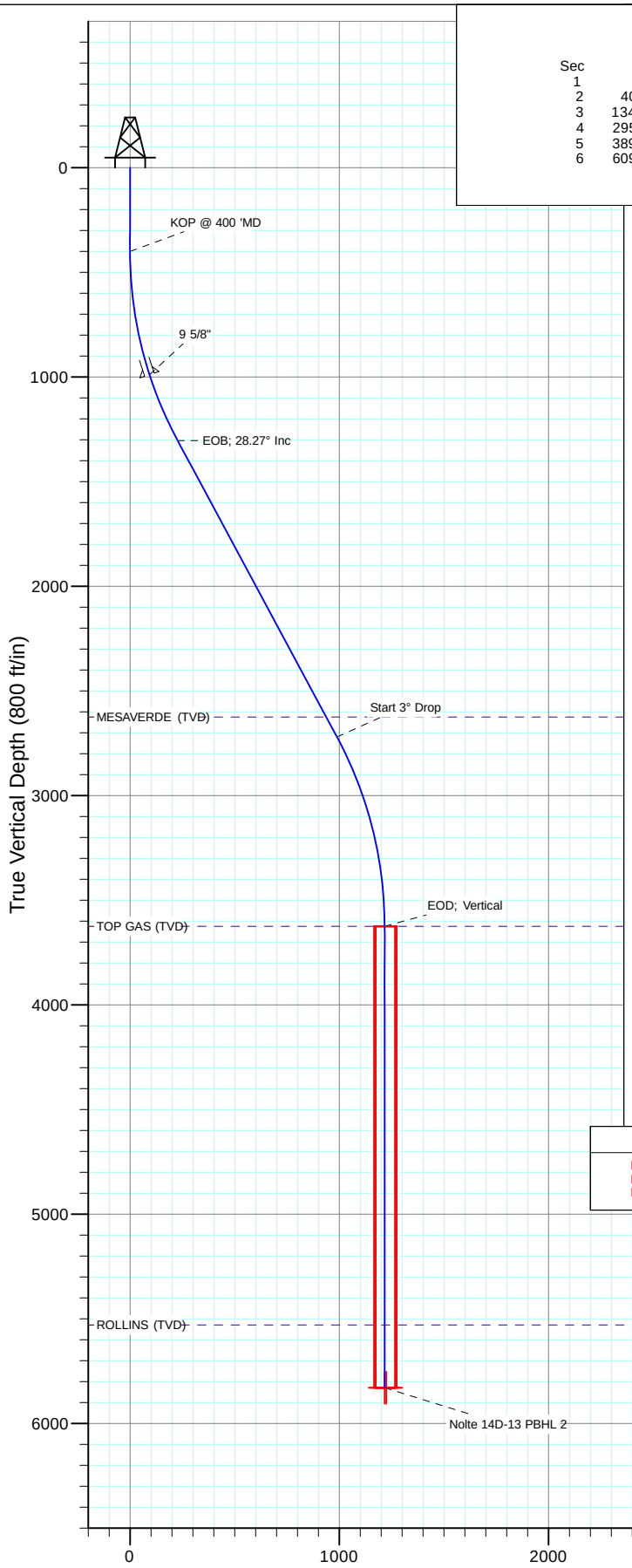
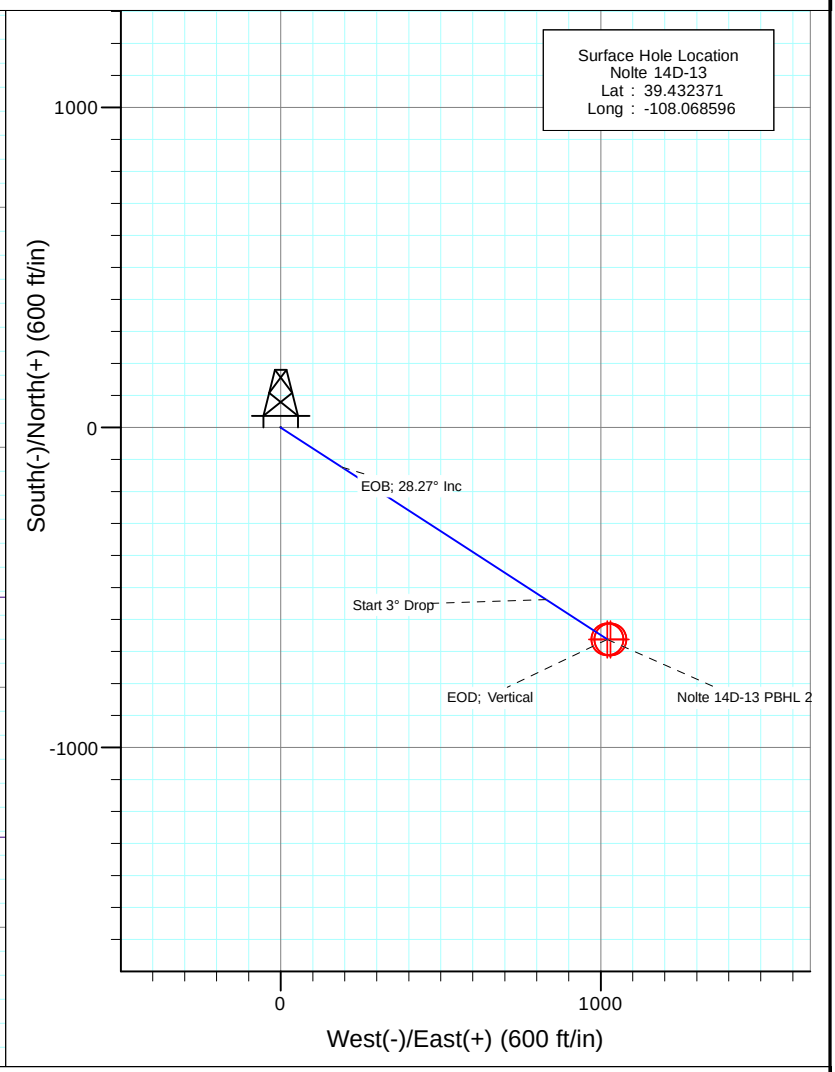
Project: Garfield County, CO
Site: S14-T7S-R96W
Well: Nolte 14D-13
Wellbore: DD
Design: Plan #3

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	400.0	0.00	0.00	400.0	0.0	0.0	0.00	0.00	0.0	
3	1342.2	28.27	122.97	1304.5	-123.9	191.1	3.00	122.97	227.7	
4	2950.0	28.27	122.97	2720.5	-538.3	829.8	0.00	0.00	989.2	
5	3892.2	0.00	0.00	3625.0	-662.3	1020.9	3.00	180.00	1216.9	
6	6097.2	0.00	0.00	5830.0	-662.3	1020.9	0.00	0.00	1216.9	Nolte 14D-13 PBHL 2





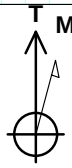
DESIGN TARGET DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Nolte 14D-13 PBHL	-662.5	1030.2	591925.05	1275577.28	39.430552	-108.064949
Nolte 14D-13 PBHL 2	-662.3	1020.9	591925.52	1275568.00	39.430553	-108.064982

Plan #3
Nolte 14D-13
WELL @ 5117.8ft (Original Well Elev)
Ground Elevation @ 5090.8
NAD 1927 (NADCON CONUS)
Well Nolte 14D-13, True North

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
2625.0	2841.6	MESAVERDE (TVD)
3625.0	3892.2	TOP GAS (TVD)
5530.0	5797.2	ROLLINS (TVD)



Azimuths to True North
Magnetic North: 10.11°

Magnetic Field
Strength: 52003.0snT
Dip Angle: 65.62°
Date: 7/15/2013
Model: IGRF2010

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	**Local Co-ordinate Reference:**	Well Nolte 14D-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 14D-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 14D-13

Well Position	**+N/-S**	0.0 ft	**Northing:**	592,616.41 ft	**Latitude:**	39.432371
	+E/-W	0.0 ft	**Easting:**	1,274,566.22 ft	**Longitude:**	-108.068596
Position Uncertainty		0.0 ft	**Wellhead Elevation:**	ft	**Ground Level:**	5,090.8 ft

Wellbore DD

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

Design Plan #3

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	122.74

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	
1,342.2	28.27	122.97	1,304.5	-123.9	191.1	3.00	3.00	0.00	122.97	
2,950.0	28.27	122.97	2,720.5	-538.3	829.8	0.00	0.00	0.00	0.00	
3,892.2	0.00	0.00	3,625.0	-662.3	1,020.9	3.00	-3.00	0.00	180.00	
6,097.2	0.00	0.00	5,830.0	-662.3	1,020.9	0.00	0.00	0.00	0.00	Nolte 14D-13 PBHL 2

Database:	USA EDM 5000 Multi Users DB	**Local Co-ordinate Reference:**	Well Nolte 14D-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 14D-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	122.97	500.0	-1.4	2.2	2.6	3.00	3.00	
600.0	6.00	122.97	599.6	-5.7	8.8	10.5	3.00	3.00	
700.0	9.00	122.97	698.8	-12.8	19.7	23.5	3.00	3.00	
800.0	12.00	122.97	797.1	-22.7	35.0	41.7	3.00	3.00	
900.0	15.00	122.97	894.3	-35.4	54.6	65.1	3.00	3.00	
1,000.0	18.00	122.97	990.2	-50.9	78.4	93.5	3.00	3.00	9 5/8"
1,100.0	21.00	122.97	1,084.4	-69.0	106.4	126.9	3.00	3.00	
1,200.0	24.00	122.97	1,176.8	-89.9	138.5	165.1	3.00	3.00	
1,300.0	27.00	122.97	1,267.1	-113.3	174.6	208.2	3.00	3.00	
1,342.2	28.27	122.97	1,304.4	-123.9	191.1	227.7	3.00	3.00	EOB; 28.27° Inc
1,400.0	28.27	122.97	1,355.4	-138.8	214.0	255.1	0.00	0.00	
1,500.0	28.27	122.97	1,443.4	-164.6	253.7	302.5	0.00	0.00	
1,600.0	28.27	122.97	1,531.5	-190.4	293.5	349.8	0.00	0.00	
1,700.0	28.27	122.97	1,619.6	-216.2	333.2	397.2	0.00	0.00	
1,800.0	28.27	122.97	1,707.7	-241.9	372.9	444.5	0.00	0.00	
1,900.0	28.27	122.97	1,795.7	-267.7	412.7	491.9	0.00	0.00	
2,000.0	28.27	122.97	1,883.8	-293.5	452.4	539.3	0.00	0.00	
2,100.0	28.27	122.97	1,971.9	-319.3	492.1	586.6	0.00	0.00	
2,200.0	28.27	122.97	2,060.0	-345.0	531.9	634.0	0.00	0.00	
2,300.0	28.27	122.97	2,148.0	-370.8	571.6	681.3	0.00	0.00	
2,400.0	28.27	122.97	2,236.1	-396.6	611.3	728.7	0.00	0.00	
2,500.0	28.27	122.97	2,324.2	-422.4	651.0	776.0	0.00	0.00	
2,600.0	28.27	122.97	2,412.3	-448.1	690.8	823.4	0.00	0.00	
2,700.0	28.27	122.97	2,500.3	-473.9	730.5	870.8	0.00	0.00	
2,800.0	28.27	122.97	2,588.4	-499.7	770.2	918.1	0.00	0.00	
2,841.6	28.27	122.97	2,625.0	-510.4	786.7	937.8	0.00	0.00	MESAVERDE (TVD)
2,900.0	28.27	122.97	2,676.5	-525.4	810.0	965.5	0.00	0.00	
2,950.0	28.27	122.97	2,720.5	-538.3	829.8	989.1	0.00	0.00	Start 3° Drop
3,000.0	26.77	122.97	2,764.9	-550.9	849.2	1,012.2	3.00	-3.00	
3,100.0	23.77	122.97	2,855.3	-574.1	885.0	1,054.9	3.00	-3.00	
3,200.0	20.77	122.97	2,947.8	-594.8	916.8	1,092.8	3.00	-3.00	
3,300.0	17.77	122.97	3,042.2	-612.7	944.5	1,125.8	3.00	-3.00	
3,400.0	14.77	122.97	3,138.2	-628.0	968.0	1,153.8	3.00	-3.00	
3,500.0	11.77	122.97	3,235.5	-640.4	987.2	1,176.8	3.00	-3.00	
3,600.0	8.77	122.97	3,333.9	-650.1	1,002.2	1,194.6	3.00	-3.00	
3,700.0	5.77	122.97	3,433.1	-657.0	1,012.8	1,207.2	3.00	-3.00	
3,800.0	2.77	122.97	3,532.8	-661.1	1,019.0	1,214.7	3.00	-3.00	
3,892.2	0.00	0.00	3,625.0	-662.3	1,020.9	1,216.9	3.00	-3.00	EOD; Vertical - TOP GAS (TVD)
3,900.0	0.00	0.00	3,632.8	-662.3	1,020.9	1,216.9	0.00	0.00	
4,000.0	0.00	0.00	3,732.8	-662.3	1,020.9	1,216.9	0.00	0.00	
4,100.0	0.00	0.00	3,832.8	-662.3	1,020.9	1,216.9	0.00	0.00	
4,200.0	0.00	0.00	3,932.8	-662.3	1,020.9	1,216.9	0.00	0.00	
4,300.0	0.00	0.00	4,032.8	-662.3	1,020.9	1,216.9	0.00	0.00	
4,400.0	0.00	0.00	4,132.8	-662.3	1,020.9	1,216.9	0.00	0.00	
4,500.0	0.00	0.00	4,232.8	-662.3	1,020.9	1,216.9	0.00	0.00	
4,600.0	0.00	0.00	4,332.8	-662.3	1,020.9	1,216.9	0.00	0.00	
4,700.0	0.00	0.00	4,432.8	-662.3	1,020.9	1,216.9	0.00	0.00	

Database:	USA EDM 5000 Multi Users DB	**Local Co-ordinate Reference:**	Well Nolte 14D-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 14D-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	4,532.8	-662.3	1,020.9	1,216.9	0.00	0.00	
4,900.0	0.00	0.00	4,632.8	-662.3	1,020.9	1,216.9	0.00	0.00	
5,000.0	0.00	0.00	4,732.8	-662.3	1,020.9	1,216.9	0.00	0.00	
5,100.0	0.00	0.00	4,832.8	-662.3	1,020.9	1,216.9	0.00	0.00	
5,200.0	0.00	0.00	4,932.8	-662.3	1,020.9	1,216.9	0.00	0.00	
5,300.0	0.00	0.00	5,032.8	-662.3	1,020.9	1,216.9	0.00	0.00	
5,400.0	0.00	0.00	5,132.8	-662.3	1,020.9	1,216.9	0.00	0.00	
5,500.0	0.00	0.00	5,232.8	-662.3	1,020.9	1,216.9	0.00	0.00	
5,600.0	0.00	0.00	5,332.8	-662.3	1,020.9	1,216.9	0.00	0.00	
5,700.0	0.00	0.00	5,432.8	-662.3	1,020.9	1,216.9	0.00	0.00	
5,797.2	0.00	0.00	5,530.0	-662.3	1,020.9	1,216.9	0.00	0.00	ROLLINS (TVD)
5,800.0	0.00	0.00	5,532.8	-662.3	1,020.9	1,216.9	0.00	0.00	
5,900.0	0.00	0.00	5,632.8	-662.3	1,020.9	1,216.9	0.00	0.00	
6,000.0	0.00	0.00	5,732.8	-662.3	1,020.9	1,216.9	0.00	0.00	
6,097.2	0.00	0.00	5,830.0	-662.3	1,020.9	1,216.9	0.00	0.00	PBHL @ 6,097' MD

Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Nolte 14D-13 PBHL 2	0.00	0.00	5,830.0	-662.3	1,020.9	591,925.52	1,275,568.00	39.430553	-108.064981
- plan hits target center									
- Circle (radius 50.0)									
Nolte 14D-13 PBHL	0.00	0.00	5,830.0	-662.5	1,030.2	591,925.05	1,275,577.28	39.430552	-108.064949
- plan misses target center by 9.3ft at 6097.2ft MD (5830.0 TVD, -662.3 N, 1020.9 E)									
- Circle (radius 50.0)									

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 (°)
2,841.6	2,625.0	MESAVERDE (TVD)		0.00	
3,892.2	3,625.0	TOP GAS (TVD)		0.00	
5,797.2	5,530.0	ROLLINS (TVD)		0.00	

Database:	USA EDM 5000 Multi Users DB	**Local Co-ordinate Reference:**	Well Nolte 14D-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 14D-13	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	DD		
Design:	Plan #3		

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
400.0	400.0	0.0	0.0	KOP @ 400 'MD
1,342.2	1,304.4	-123.9	191.1	EOB; 28.27° Inc
2,950.0	2,720.5	-538.3	829.8	Start 3° Drop
3,892.2	3,625.0	-662.3	1,020.9	EOD; Vertical
6,097.2	5,830.0	-662.3	1,020.9	PBHL @ 6,097' MD

Caerus Oil & Gas (NAD 27)

Garfield County, CO
S14-T7S-R96W
Nolte 14D-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 14D-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 14D-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	6,097.2	Plan #3 (DD)	MWD	Geolink MWD

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
S14-T7S-R96W						
Nolte 11A-24 - DD - Plan #3	300.0	300.0	8.0	7.1	8.401	CC, ES
Nolte 11A-24 - DD - Plan #3	400.0	399.8	9.1	7.8	6.946	SF
Nolte 11B-24 - DD - Plan #3	200.0	200.0	16.0	15.4	26.490	CC, ES
Nolte 11B-24 - DD - Plan #3	6,042.2	6,277.1	660.3	618.1	15.657	SF
Nolte 11C-24 - DD - Plan #3	244.7	235.0	24.0	23.2	31.561	CC, ES
Nolte 11C-24 - DD - Plan #3	1,500.0	1,442.1	181.9	169.9	15.222	SF
Nolte 13A-13 - DD - Plan #3	200.0	200.0	41.2	40.6	68.236	CC, ES
Nolte 13A-13 - DD - Plan #3	400.0	395.3	51.0	49.7	38.705	SF
Nolte 13B-13 - DD - Plan #3	233.5	233.5	33.5	32.8	46.503	CC, ES
Nolte 13B-13 - DD - Plan #3	500.0	494.8	49.0	47.3	29.550	SF
Nolte 13C-13 - DD - Plan #3	200.0	199.8	40.0	39.4	66.283	CC, ES
Nolte 13C-13 - DD - Plan #3	500.0	491.7	62.2	60.5	37.631	SF
Nolte 13D-13 - DD - Plan #3	300.0	300.0	32.0	31.0	33.580	CC, ES
Nolte 13D-13 - DD - Plan #3	500.0	496.5	41.2	39.6	24.852	SF
Nolte 14A-13 - DD - Plan #3	400.0	400.0	24.0	22.7	18.428	CC, ES
Nolte 14A-13 - DD - Plan #3	500.0	499.1	26.1	24.4	15.732	SF
Nolte 14B-13 - DD - Plan #3	400.0	400.0	16.0	14.7	12.283	CC, ES
Nolte 14B-13 - DD - Plan #3	600.0	599.7	19.9	17.9	9.833	SF
Nolte 14C-13 - DD - Plan #3	400.0	400.0	8.5	7.2	6.515	CC
Nolte 14C-13 - DD - Plan #3	400.0	400.0	8.5	7.2	6.515	ES
Nolte 14C-13 - DD - Plan #3	500.0	500.0	9.2	7.5	5.542	SF
Nolte 43A-14 - DD - Plan #3	300.0	300.0	26.0	25.0	27.268	CC, ES
Nolte 43A-14 - DD - Plan #3	400.0	398.6	28.5	27.2	21.818	SF
Nolte 43B-14 - DD - Plan #3	333.4	333.4	18.9	17.8	17.640	CC, ES
Nolte 43B-14 - DD - Plan #3	400.0	399.5	19.5	18.2	14.987	SF
Nolte 43C-14 - DD - Plan #3	400.0	400.0	12.8	11.5	9.833	CC, ES, SF
Nolte 44A-14 - DD - Plan #3	400.0	400.0	10.0	8.7	7.679	CC, ES, SF
Nolte 44B-14 - DD - Plan #3	400.0	400.0	12.8	11.5	9.832	CC, ES
Nolte 44B-14 - DD - Plan #3	500.0	500.0	14.8	13.1	8.956	SF
Nolte 44C-14 - DD - Plan #3	400.0	400.0	18.9	17.6	14.482	CC, ES
Nolte 44C-14 - DD - Plan #3	500.0	498.9	22.7	21.0	13.730	SF
Nolte SWD 1-14 - DD - Plan #3	400.0	400.0	26.0	24.7	19.950	CC, ES
Nolte SWD 1-14 - DD - Plan #3	600.0	599.6	30.8	28.7	15.208	SF

Company:	Caerus Oil & Gas (NAD 27)	**Local Co-ordinate Reference:**	Well Nolte 14D-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 14D-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 Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-152.48	-7.1	-3.7	8.0				
100.0	100.0	100.0	100.0	0.1	0.1	-152.48	-7.1	-3.7	8.0	7.8	0.25	31.401	
200.0	200.0	200.0	200.0	0.3	0.3	-152.48	-7.1	-3.7	8.0	7.4	0.60	13.255	
300.0	300.0	300.0	300.0	0.5	0.5	-152.48	-7.1	-3.7	8.0	7.1	0.95	8.401	CC, ES
400.0	400.0	399.8	399.7	0.7	0.7	-168.51	-8.9	-1.8	9.1	7.8	1.31	6.946	SF
500.0	500.0	499.3	498.9	0.8	0.9	49.57	-14.2	3.8	13.0	11.3	1.67	7.762	
600.0	599.6	598.5	597.2	1.0	1.1	42.40	-23.1	13.2	18.1	16.1	2.05	8.823	
700.0	698.8	697.4	694.5	1.3	1.5	40.34	-35.4	26.2	23.9	21.4	2.48	9.654	
800.0	797.1	795.9	790.4	1.6	1.9	40.57	-51.1	42.8	30.2	27.2	2.97	10.159	
900.0	894.3	894.2	884.7	2.1	2.4	41.89	-70.2	62.9	37.0	33.4	3.58	10.328	
1,000.0	990.2	992.2	977.2	2.6	3.0	43.75	-92.4	86.4	44.3	39.9	4.34	10.206	
1,100.0	1,084.4	1,089.9	1,067.5	3.2	3.7	45.84	-117.8	113.2	52.1	46.8	5.27	9.875	
1,200.0	1,176.8	1,187.2	1,155.6	3.9	4.5	48.02	-146.3	143.2	60.4	54.0	6.41	9.428	
1,300.0	1,267.1	1,284.2	1,241.3	4.7	5.4	50.17	-177.7	176.4	69.4	61.6	7.76	8.939	
1,400.0	1,355.4	1,380.9	1,324.1	5.6	6.3	51.90	-211.9	212.5	79.5	70.2	9.25	8.588	
1,500.0	1,443.4	1,479.0	1,406.1	6.5	7.3	51.84	-248.9	251.6	92.2	81.6	10.62	8.684	
1,600.0	1,531.5	1,578.2	1,488.9	7.4	8.4	51.68	-286.5	291.3	105.2	93.2	11.99	8.775	
1,700.0	1,619.6	1,677.3	1,571.6	8.3	9.4	51.56	-324.1	331.0	118.2	104.8	13.36	8.843	
1,800.0	1,707.7	1,776.5	1,654.3	9.1	10.4	51.45	-361.7	370.7	131.1	116.4	14.74	8.894	
1,900.0	1,795.7	1,875.6	1,737.0	10.0	11.5	51.37	-399.3	410.4	144.1	128.0	16.13	8.935	
2,000.0	1,883.8	1,974.8	1,819.7	10.9	12.5	51.30	-436.9	450.1	157.1	139.6	17.52	8.967	
2,100.0	1,971.9	2,073.9	1,902.4	11.8	13.5	51.24	-474.5	489.8	170.1	151.2	18.91	8.993	
2,200.0	2,060.0	2,173.1	1,985.1	12.7	14.6	51.19	-512.1	529.5	183.1	162.8	20.31	9.015	
2,300.0	2,148.0	2,272.2	2,067.9	13.6	15.6	51.15	-549.7	569.2	196.1	174.4	21.70	9.033	
2,400.0	2,236.1	2,371.4	2,150.6	14.5	16.6	51.11	-587.3	608.9	209.0	185.9	23.10	9.049	
2,500.0	2,324.2	2,470.6	2,233.3	15.4	17.7	51.08	-624.9	648.6	222.0	197.5	24.50	9.062	
2,600.0	2,412.3	2,569.7	2,316.0	16.3	18.7	51.05	-662.5	688.3	235.0	209.1	25.90	9.074	
2,700.0	2,500.3	2,668.9	2,398.7	17.2	19.8	51.02	-700.1	728.0	248.0	220.7	27.30	9.084	
2,800.0	2,588.4	2,768.0	2,481.4	18.2	20.8	51.00	-737.7	767.7	261.0	232.3	28.70	9.093	
2,900.0	2,676.5	2,867.5	2,564.4	19.1	21.8	50.97	-775.4	807.5	274.0	243.9	30.10	9.100	
3,000.0	2,764.9	2,979.0	2,659.3	19.9	22.9	51.42	-815.7	850.0	285.1	253.4	31.70	8.993	
3,100.0	2,855.3	3,091.1	2,757.9	20.7	23.8	52.03	-852.3	888.7	294.7	261.5	33.20	8.878	
3,200.0	2,947.8	3,203.6	2,859.9	21.4	24.7	52.55	-885.0	923.2	303.3	268.8	34.53	8.785	
3,300.0	3,042.2	3,316.6	2,965.0	21.9	25.4	53.00	-913.6	953.4	310.7	275.1	35.68	8.709	
3,400.0	3,138.2	3,430.0	3,072.7	22.4	26.0	53.38	-937.9	979.1	317.0	280.3	36.66	8.647	
3,500.0	3,235.5	3,543.7	3,182.6	22.8	26.5	53.69	-957.9	1,000.1	322.1	284.6	37.47	8.595	
3,600.0	3,333.9	3,657.7	3,294.3	23.1	26.9	53.95	-973.3	1,016.5	325.9	287.8	38.11	8.552	
3,700.0	3,433.1	3,771.8	3,407.3	23.3	27.1	54.15	-984.2	1,027.9	328.5	289.9	38.58	8.515	
3,800.0	3,532.8	3,886.0	3,521.1	23.4	27.3	54.30	-990.4	1,034.5	329.9	291.0	38.89	8.483	
3,900.0	3,632.8	3,997.7	3,632.8	23.5	27.3	177.35	-992.0	1,036.1	330.0	291.0	39.05	8.453	
4,000.0	3,732.8	4,097.7	3,732.8	23.5	27.4	177.35	-992.0	1,036.1	330.0	290.9	39.17	8.426	
4,100.0	3,832.8	4,197.7	3,832.8	23.6	27.4	177.35	-992.0	1,036.1	330.0	290.7	39.30	8.399	
4,200.0	3,932.8	4,297.7	3,932.8	23.6	27.5	177.35	-992.0	1,036.1	330.0	290.6	39.43	8.371	
4,300.0	4,032.8	4,397.7	4,032.8	23.7	27.5	177.35	-992.0	1,036.1	330.0	290.5	39.56	8.343	
4,400.0	4,132.8	4,497.7	4,132.8	23.8	27.6	177.35	-992.0	1,036.1	330.0	290.4	39.69	8.315	
4,500.0	4,232.8	4,597.7	4,232.8	23.8	27.6	177.35	-992.0	1,036.1	330.0	290.2	39.83	8.287	
4,600.0	4,332.8	4,697.7	4,332.8	23.9	27.7	177.35	-992.0	1,036.1	330.0	290.1	39.97	8.258	
4,700.0	4,432.8	4,797.7	4,432.8	23.9	27.7	177.35	-992.0	1,036.1	330.0	289.9	40.11	8.228	
4,800.0	4,532.8	4,897.7	4,532.8	24.0	27.8	177.35	-992.0	1,036.1	330.0	289.8	40.26	8.199	
4,900.0	4,632.8	4,997.7	4,632.8	24.1	27.8	177.35	-992.0	1,036.1	330.0	289.6	40.40	8.169	
5,000.0	4,732.8	5,097.7	4,732.8	24.1	27.9	177.35	-992.0	1,036.1	330.0	289.5	40.55	8.139	

Company:	Caerus Oil & Gas (NAD 27)	**Local Co-ordinate Reference:**	Well Nolte 14D-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 14D-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 Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,100.0	4,832.8	5,197.7	4,832.8	24.2	27.9	177.35	-992.0	1,036.1	330.0	289.3	40.70	8.108	
5,200.0	4,932.8	5,297.7	4,932.8	24.2	28.0	177.35	-992.0	1,036.1	330.0	289.2	40.86	8.078	
5,300.0	5,032.8	5,397.7	5,032.8	24.3	28.1	177.35	-992.0	1,036.1	330.0	289.0	41.02	8.047	
5,400.0	5,132.8	5,497.7	5,132.8	24.4	28.1	177.35	-992.0	1,036.1	330.0	288.9	41.17	8.016	
5,500.0	5,232.8	5,597.7	5,232.8	24.4	28.2	177.35	-992.0	1,036.1	330.0	288.7	41.34	7.984	
5,600.0	5,332.8	5,697.7	5,332.8	24.5	28.2	177.35	-992.0	1,036.1	330.0	288.5	41.50	7.953	
5,700.0	5,432.8	5,797.7	5,432.8	24.6	28.3	177.35	-992.0	1,036.1	330.0	288.4	41.67	7.921	
5,800.0	5,532.8	5,897.7	5,532.8	24.7	28.4	177.35	-992.0	1,036.1	330.0	288.2	41.83	7.889	
5,900.0	5,632.8	5,997.7	5,632.8	24.7	28.4	177.35	-992.0	1,036.1	330.0	288.0	42.01	7.857	
6,000.0	5,732.8	6,097.7	5,732.8	24.8	28.5	177.35	-992.0	1,036.1	330.0	287.9	42.18	7.825	
6,056.4	5,789.2	6,154.1	5,789.2	24.8	28.5	177.35	-992.0	1,036.1	330.0	287.8	42.28	7.807	
6,097.2	5,830.0	6,174.9	5,810.0	24.9	28.5	177.35	-992.0	1,036.1	330.6	288.3	42.33	7.811	

Company:	Caerus Oil & Gas (NAD 27)	**Local Co-ordinate Reference:**	Well Nolte 14D-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 14D-13	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	DD	**Database:**	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	**Offset TVD Reference:**	Offset Datum

Offset Design S14-T7S-R96W - Nolte 11B-24 - DD - Plan #3

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-152.46	-14.2	-7.4	16.0				
100.0	100.0	100.0	100.0	0.1	0.1	-152.46	-14.2	-7.4	16.0	15.8	0.26	62.727	
200.0	200.0	200.0	200.0	0.3	0.3	-152.46	-14.2	-7.4	16.0	15.4	0.60	26.490	CC, ES
300.0	300.0	299.6	299.5	0.5	0.5	-160.43	-16.2	-5.8	17.2	16.2	0.96	17.929	
400.0	400.0	398.6	398.3	0.7	0.7	-177.72	-22.2	-0.9	22.3	20.9	1.35	16.460	
500.0	500.0	496.9	495.7	0.8	1.0	47.58	-32.1	7.1	31.3	29.6	1.69	18.509	
600.0	599.6	594.7	591.9	1.0	1.3	43.07	-45.7	18.3	41.8	39.8	2.08	20.121	
700.0	698.8	691.8	686.4	1.3	1.8	41.81	-63.0	32.4	53.2	50.7	2.51	21.204	
800.0	797.1	788.4	779.1	1.6	2.3	42.13	-83.9	49.4	65.4	62.4	3.02	21.674	
900.0	894.3	884.3	869.7	2.1	2.9	43.26	-108.2	69.2	78.2	74.6	3.63	21.554	
1,000.0	990.2	979.5	958.1	2.6	3.6	44.81	-135.8	91.7	91.8	87.4	4.38	20.954	
1,100.0	1,084.4	1,074.2	1,044.0	3.2	4.3	46.57	-166.6	116.7	106.1	100.8	5.30	20.033	
1,200.0	1,176.8	1,168.1	1,127.2	3.9	5.1	48.40	-200.4	144.3	121.3	114.9	6.40	18.952	
1,300.0	1,267.1	1,261.5	1,207.6	4.7	6.0	50.24	-237.1	174.1	137.3	129.6	7.70	17.834	
1,400.0	1,355.4	1,354.1	1,285.1	5.6	7.0	52.02	-276.4	206.2	154.7	145.5	9.15	16.910	
1,500.0	1,443.4	1,445.5	1,359.1	6.5	8.0	52.78	-318.1	240.1	175.6	165.1	10.56	16.634	
1,600.0	1,531.5	1,535.5	1,429.3	7.4	9.1	52.59	-361.7	275.6	200.3	188.4	11.87	16.871	
1,700.0	1,619.6	1,631.1	1,502.3	8.3	10.3	52.01	-409.7	314.7	227.1	213.9	13.16	17.252	
1,800.0	1,707.7	1,727.5	1,575.7	9.1	11.4	51.55	-458.0	354.1	253.8	239.4	14.46	17.558	
1,900.0	1,795.7	1,823.8	1,649.2	10.0	12.6	51.17	-506.3	393.4	280.6	264.9	15.76	17.811	
2,000.0	1,883.8	1,920.1	1,722.7	10.9	13.8	50.86	-554.6	432.7	307.4	290.4	17.06	18.023	
2,100.0	1,971.9	2,016.5	1,796.1	11.8	15.0	50.60	-602.9	472.1	334.3	315.9	18.36	18.203	
2,200.0	2,060.0	2,112.8	1,869.6	12.7	16.1	50.38	-651.2	511.4	361.1	341.4	19.67	18.358	
2,300.0	2,148.0	2,209.1	1,943.1	13.6	17.3	50.19	-699.5	550.8	387.9	366.9	20.98	18.493	
2,400.0	2,236.1	2,305.4	2,016.5	14.5	18.5	50.03	-747.8	590.1	414.7	392.5	22.28	18.612	
2,500.0	2,324.2	2,401.8	2,090.0	15.4	19.7	49.88	-796.1	629.5	441.6	418.0	23.59	18.716	
2,600.0	2,412.3	2,498.1	2,163.5	16.3	20.9	49.75	-844.4	668.8	468.4	443.5	24.90	18.810	
2,700.0	2,500.3	2,594.4	2,237.0	17.2	22.1	49.64	-892.7	708.1	495.2	469.0	26.21	18.893	
2,800.0	2,588.4	2,690.8	2,310.4	18.2	23.2	49.54	-941.0	747.5	522.1	494.5	27.52	18.969	
2,900.0	2,676.5	2,798.9	2,393.3	19.1	24.5	49.47	-994.8	791.3	548.5	519.6	28.92	18.967	
3,000.0	2,764.9	2,927.3	2,496.0	19.9	25.9	49.99	-1,054.6	840.0	571.0	540.4	30.61	18.656	
3,100.0	2,855.3	3,057.9	2,605.6	20.7	27.2	50.74	-1,109.7	884.9	590.9	558.7	32.24	18.327	
3,200.0	2,947.8	3,190.4	2,721.4	21.4	28.3	51.40	-1,159.6	925.5	608.6	574.8	33.72	18.048	
3,300.0	3,042.2	3,324.6	2,843.0	21.9	29.3	51.97	-1,203.6	961.4	623.8	588.8	35.02	17.815	
3,400.0	3,138.2	3,460.3	2,969.6	22.4	30.2	52.46	-1,241.3	992.1	636.5	600.4	36.13	17.616	
3,500.0	3,235.5	3,597.3	3,100.7	22.8	30.8	52.89	-1,272.1	1,017.2	646.6	609.6	37.07	17.444	
3,600.0	3,333.9	3,735.2	3,235.1	23.1	31.3	53.24	-1,295.8	1,036.5	654.0	616.2	37.81	17.299	
3,700.0	3,433.1	3,873.8	3,372.1	23.3	31.7	53.52	-1,311.9	1,049.6	658.7	620.4	38.36	17.171	
3,800.0	3,532.8	4,012.6	3,510.5	23.4	31.8	53.74	-1,320.3	1,056.4	660.6	621.9	38.73	17.056	
3,900.0	3,632.8	4,134.9	3,632.8	23.5	31.9	176.83	-1,321.6	1,057.5	660.3	621.4	38.91	16.968	
4,000.0	3,732.8	4,234.9	3,732.8	23.5	31.9	176.83	-1,321.6	1,057.5	660.3	621.3	39.04	16.913	
4,100.0	3,832.8	4,334.9	3,832.8	23.6	32.0	176.83	-1,321.6	1,057.5	660.3	621.1	39.17	16.857	
4,200.0	3,932.8	4,434.9	3,932.8	23.6	32.0	176.83	-1,321.6	1,057.5	660.3	621.0	39.30	16.801	
4,300.0	4,032.8	4,534.9	4,032.8	23.7	32.1	176.83	-1,321.6	1,057.5	660.3	620.9	39.44	16.743	
4,400.0	4,132.8	4,634.9	4,132.8	23.8	32.1	176.83	-1,321.6	1,057.5	660.3	620.7	39.57	16.685	
4,500.0	4,232.8	4,734.9	4,232.8	23.8	32.1	176.83	-1,321.6	1,057.5	660.3	620.6	39.71	16.627	
4,600.0	4,332.8	4,834.9	4,332.8	23.9	32.2	176.83	-1,321.6	1,057.5	660.3	620.4	39.85	16.568	
4,700.0	4,432.8	4,934.9	4,432.8	23.9	32.2	176.83	-1,321.6	1,057.5	660.3	620.3	40.00	16.508	
4,800.0	4,532.8	5,034.9	4,532.8	24.0	32.3	176.83	-1,321.6	1,057.5	660.3	620.1	40.15	16.447	
4,900.0	4,632.8	5,134.9	4,632.8	24.1	32.3	176.83	-1,321.6	1,057.5	660.3	620.0	40.30	16.386	
5,000.0	4,732.8	5,234.9	4,732.8	24.1	32.4	176.83	-1,321.6	1,057.5	660.3	619.8	40.45	16.324	
5,100.0	4,832.8	5,334.9	4,832.8	24.2	32.4	176.83	-1,321.6	1,057.5	660.3	619.7	40.60	16.262	

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

Company:	Caerus Oil & Gas (NAD 27)	**Local Co-ordinate Reference:**	Well Nolte 14D-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 14D-13	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	DD	**Database:**	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	**Offset TVD Reference:**	Offset Datum

Offset Design S14-T7S-R96W - Nolte 11B-24 - DD - Plan #3

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,200.0	4,932.8	5,434.9	4,932.8	24.2	32.5	176.83	-1,321.6	1,057.5	660.3	619.5	40.76	16.200	
5,300.0	5,032.8	5,534.9	5,032.8	24.3	32.5	176.83	-1,321.6	1,057.5	660.3	619.4	40.92	16.137	
5,400.0	5,132.8	5,634.9	5,132.8	24.4	32.6	176.83	-1,321.6	1,057.5	660.3	619.2	41.08	16.073	
5,500.0	5,232.8	5,734.9	5,232.8	24.4	32.6	176.83	-1,321.6	1,057.5	660.3	619.0	41.24	16.009	
5,600.0	5,332.8	5,834.9	5,332.8	24.5	32.7	176.83	-1,321.6	1,057.5	660.3	618.9	41.41	15.945	
5,700.0	5,432.8	5,934.9	5,432.8	24.6	32.7	176.83	-1,321.6	1,057.5	660.3	618.7	41.58	15.880	
5,800.0	5,532.8	6,034.9	5,532.8	24.7	32.8	176.83	-1,321.6	1,057.5	660.3	618.5	41.75	15.815	
5,900.0	5,632.8	6,134.9	5,632.8	24.7	32.9	176.83	-1,321.6	1,057.5	660.3	618.4	41.92	15.750	
6,000.0	5,732.8	6,234.9	5,732.8	24.8	32.9	176.83	-1,321.6	1,057.5	660.3	618.2	42.10	15.684	
6,042.2	5,774.9	6,277.1	5,774.9	24.8	32.9	176.83	-1,321.6	1,057.5	660.3	618.1	42.17	15.657	SF
6,097.2	5,830.0	6,292.2	5,790.0	24.9	32.9	176.83	-1,321.6	1,057.5	661.5	619.3	42.23	15.663	

Company:	Caerus Oil & Gas (NAD 27)	**Local Co-ordinate Reference:**	Well Nolte 14D-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 14D-13	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	DD	**Database:**	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	**Offset TVD Reference:**	Offset Datum

Offset Design S14-T7S-R96W - Nolte 11C-24 - DD - Plan #3

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-152.44	-21.3	-11.1	25.9				
100.0	100.0	90.3	90.3	0.1	0.1	-152.44	-21.3	-11.1	24.0	23.7	0.26	92.930	
200.0	200.0	190.3	190.3	0.3	0.3	-152.44	-21.3	-11.1	24.0	23.4	0.60	39.703	
244.7	244.7	235.0	235.0	0.4	0.4	-152.44	-21.3	-11.1	24.0	23.2	0.76	31.561	CC, ES
300.0	300.0	290.1	290.0	0.5	0.5	-153.32	-21.6	-10.9	24.2	23.2	0.95	25.386	
400.0	400.0	389.2	389.1	0.7	0.7	-162.00	-25.5	-8.3	26.8	25.5	1.32	20.393	
500.0	500.0	487.9	487.3	0.8	0.9	65.77	-33.6	-2.9	32.7	31.0	1.69	19.368	
600.0	599.6	586.1	584.4	1.0	1.2	61.39	-45.8	5.3	40.6	38.5	2.10	19.315	
700.0	698.8	683.8	680.1	1.3	1.6	60.04	-62.0	16.2	50.2	47.6	2.59	19.366	
800.0	797.1	780.9	774.1	1.6	2.0	60.38	-82.2	29.7	61.2	58.0	3.19	19.186	
900.0	894.3	877.5	866.2	2.1	2.6	61.59	-106.2	45.7	73.7	69.7	3.93	18.723	
1,000.0	990.2	973.4	956.2	2.6	3.2	63.22	-133.8	64.1	87.6	82.7	4.85	18.057	
1,100.0	1,084.4	1,068.6	1,043.8	3.2	3.9	64.99	-164.9	84.9	103.0	97.0	5.95	17.303	
1,200.0	1,176.8	1,163.2	1,128.8	3.9	4.7	66.76	-199.3	108.0	119.9	112.7	7.25	16.550	
1,300.0	1,267.1	1,257.0	1,211.0	4.7	5.5	68.43	-236.9	133.1	138.4	129.7	8.73	15.850	
1,400.0	1,355.4	1,350.1	1,290.3	5.6	6.4	70.03	-277.4	160.2	158.7	148.3	10.35	15.328	
1,500.0	1,443.4	1,442.1	1,366.2	6.5	7.4	70.45	-320.6	189.1	181.9	169.9	11.95	15.222	SF
1,600.0	1,531.5	1,532.7	1,438.4	7.4	8.4	69.81	-366.1	219.5	208.1	194.6	13.48	15.433	
1,700.0	1,619.6	1,621.5	1,506.6	8.3	9.5	68.51	-413.3	251.0	237.3	222.3	14.94	15.883	
1,800.0	1,707.7	1,708.1	1,570.5	9.1	10.6	66.84	-461.9	283.5	269.5	253.2	16.30	16.529	
1,900.0	1,795.7	1,792.3	1,630.1	10.0	11.8	64.99	-511.4	316.6	304.9	287.3	17.58	17.338	
2,000.0	1,883.8	1,873.9	1,685.2	10.9	12.9	63.10	-561.4	350.1	343.4	324.7	18.78	18.289	
2,100.0	1,971.9	1,952.7	1,736.0	11.8	14.1	61.23	-611.5	383.6	385.2	365.3	19.89	19.370	
2,200.0	2,060.0	2,028.7	1,782.5	12.7	15.2	59.45	-661.4	417.0	430.1	409.2	20.92	20.564	
2,300.0	2,148.0	2,100.0	1,824.0	13.6	16.4	57.81	-709.7	449.2	478.1	456.3	21.87	21.861	
2,400.0	2,236.1	2,171.6	1,863.4	14.5	17.5	56.21	-759.4	482.4	529.1	506.3	22.78	23.226	
2,500.0	2,324.2	2,238.6	1,898.3	15.4	18.6	54.78	-806.9	514.2	583.0	559.3	23.63	24.672	
2,600.0	2,412.3	2,320.9	1,939.2	16.3	20.0	53.15	-866.3	553.9	638.9	614.5	24.45	26.131	
2,700.0	2,500.3	2,439.6	2,002.4	17.2	21.9	51.48	-949.8	609.8	692.4	667.0	25.42	27.241	
2,800.0	2,588.4	2,567.4	2,077.2	18.2	23.8	50.40	-1,035.9	667.3	741.3	714.8	26.57	27.897	
2,900.0	2,676.5	2,704.1	2,164.7	19.1	25.8	49.83	-1,123.1	725.7	785.1	757.2	27.94	28.103	
3,000.0	2,764.9	2,848.8	2,265.3	19.9	27.7	50.13	-1,209.6	783.5	823.5	793.8	29.64	27.779	
3,100.0	2,855.3	2,999.6	2,378.1	20.7	29.5	50.86	-1,292.7	839.0	858.4	827.0	31.43	27.309	
3,200.0	2,947.8	3,156.2	2,503.3	21.4	31.2	51.49	-1,370.8	891.3	889.9	856.9	33.07	26.915	
3,300.0	3,042.2	3,318.4	2,640.6	21.9	32.7	52.03	-1,442.5	939.3	917.7	883.2	34.54	26.574	
3,400.0	3,138.2	3,485.8	2,789.5	22.4	34.1	52.49	-1,506.1	981.8	941.4	905.6	35.82	26.284	
3,500.0	3,235.5	3,657.8	2,948.8	22.8	35.2	52.87	-1,559.9	1,017.7	960.8	923.9	36.90	26.040	
3,600.0	3,333.9	3,833.7	3,117.0	23.1	36.0	53.18	-1,602.3	1,046.1	975.5	937.7	37.76	25.831	
3,700.0	3,433.1	4,012.4	3,292.1	23.3	36.6	53.42	-1,632.1	1,066.0	985.3	946.9	38.41	25.652	
3,800.0	3,532.8	4,192.8	3,471.4	23.4	36.9	53.59	-1,648.3	1,076.8	990.2	951.4	38.83	25.498	
3,900.0	3,632.8	4,344.6	3,623.1	23.5	37.0	176.65	-1,651.2	1,078.8	990.6	951.5	39.02	25.383	
4,000.0	3,732.8	4,444.6	3,723.1	23.5	37.0	176.65	-1,651.2	1,078.8	990.6	951.4	39.15	25.299	
4,100.0	3,832.8	4,544.6	3,823.1	23.6	37.0	176.65	-1,651.2	1,078.8	990.6	951.3	39.29	25.214	
4,200.0	3,932.8	4,644.6	3,923.1	23.6	37.1	176.65	-1,651.2	1,078.8	990.6	951.1	39.42	25.128	
4,300.0	4,032.8	4,744.6	4,023.1	23.7	37.1	176.65	-1,651.2	1,078.8	990.6	951.0	39.56	25.041	
4,400.0	4,132.8	4,844.6	4,123.1	23.8	37.1	176.65	-1,651.2	1,078.8	990.6	950.9	39.70	24.953	
4,500.0	4,232.8	4,944.6	4,223.1	23.8	37.2	176.65	-1,651.2	1,078.8	990.6	950.7	39.84	24.864	
4,600.0	4,332.8	5,044.6	4,323.1	23.9	37.2	176.65	-1,651.2	1,078.8	990.6	950.6	39.99	24.773	
4,700.0	4,432.8	5,144.6	4,423.1	23.9	37.3	176.65	-1,651.2	1,078.8	990.6	950.4	40.13	24.682	
4,800.0	4,532.8	5,244.6	4,523.1	24.0	37.3	176.65	-1,651.2	1,078.8	990.6	950.3	40.28	24.591	
4,900.0	4,632.8	5,344.6	4,623.1	24.1	37.4	176.65	-1,651.2	1,078.8	990.6	950.1	40.43	24.498	
5,000.0	4,732.8	5,444.6	4,723.1	24.1	37.4	176.65	-1,651.2	1,078.8	990.6	950.0	40.59	24.404	

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

Company:	Caerus Oil & Gas (NAD 27)	**Local Co-ordinate Reference:**	Well Nolte 14D-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 14D-13	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	DD	**Database:**	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	**Offset TVD Reference:**	Offset Datum

Offset Design S14-T7S-R96W - Nolte 11C-24 - DD - Plan #3

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,100.0	4,832.8	5,544.6	4,823.1	24.2	37.4	176.65	-1,651.2	1,078.8	990.6	949.8	40.75	24.310	
5,200.0	4,932.8	5,644.6	4,923.1	24.2	37.5	176.65	-1,651.2	1,078.8	990.6	949.7	40.91	24.215	
5,300.0	5,032.8	5,744.6	5,023.1	24.3	37.5	176.65	-1,651.2	1,078.8	990.6	949.5	41.07	24.120	
5,400.0	5,132.8	5,844.6	5,123.1	24.4	37.6	176.65	-1,651.2	1,078.8	990.6	949.3	41.23	24.024	
5,500.0	5,232.8	5,944.6	5,223.1	24.4	37.6	176.65	-1,651.2	1,078.8	990.6	949.2	41.40	23.927	
5,600.0	5,332.8	6,044.6	5,323.1	24.5	37.7	176.65	-1,651.2	1,078.8	990.6	949.0	41.57	23.830	
5,700.0	5,432.8	6,144.6	5,423.1	24.6	37.7	176.65	-1,651.2	1,078.8	990.6	948.8	41.74	23.732	
5,800.0	5,532.8	6,244.6	5,523.1	24.7	37.8	176.65	-1,651.2	1,078.8	990.6	948.7	41.91	23.634	
5,865.6	5,598.4	6,310.2	5,588.7	24.7	37.8	176.65	-1,651.2	1,078.8	990.6	948.5	42.03	23.569	
5,900.0	5,632.8	6,341.5	5,620.0	24.7	37.8	176.65	-1,651.2	1,078.8	990.6	948.5	42.09	23.537	
6,000.0	5,732.8	6,341.5	5,620.0	24.8	37.8	176.65	-1,651.2	1,078.8	995.9	953.7	42.17	23.616	
6,097.2	5,830.0	6,341.5	5,620.0	24.9	37.8	176.65	-1,651.2	1,078.8	1,010.6	968.4	42.26	23.916	

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	**Local Co-ordinate Reference:**	Well Nolte 14D-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 14D-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 Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	13.47	40.1	9.6	41.2				
100.0	100.0	100.0	100.0	0.1	0.1	13.47	40.1	9.6	41.2	41.0	0.25	161.646	
200.0	200.0	200.0	200.0	0.3	0.3	13.47	40.1	9.6	41.2	40.6	0.60	68.236	CC, ES
300.0	300.0	297.9	297.9	0.5	0.5	14.50	42.2	10.9	43.7	42.7	0.95	45.814	
400.0	400.0	395.3	395.0	0.7	0.7	16.98	48.6	14.8	51.0	49.7	1.32	38.705	SF
500.0	500.0	491.6	490.5	0.8	1.0	-105.02	59.0	21.2	64.1	62.4	1.65	38.811	
600.0	599.6	586.2	583.6	1.0	1.3	-106.71	73.2	30.0	83.3	81.3	2.04	40.926	
700.0	698.8	678.3	673.4	1.3	1.7	-109.19	90.8	40.8	108.8	106.3	2.48	43.860	
800.0	797.1	767.5	759.2	1.6	2.2	-111.54	111.4	53.5	140.6	137.5	3.01	46.764	
900.0	894.3	853.1	840.4	2.1	2.7	-113.44	134.3	67.5	178.5	174.9	3.62	49.321	
1,000.0	990.2	934.9	916.9	2.6	3.2	-114.82	159.0	82.8	222.4	218.1	4.32	51.486	
1,100.0	1,084.4	1,012.5	988.2	3.2	3.8	-115.70	185.1	98.8	271.8	266.7	5.10	53.311	
1,200.0	1,176.8	1,085.7	1,054.3	3.9	4.4	-116.14	211.9	115.3	326.5	320.6	5.96	54.817	
1,300.0	1,267.1	1,154.6	1,115.3	4.7	5.0	-116.17	239.1	132.0	386.0	379.1	6.89	56.058	
1,400.0	1,355.4	1,219.3	1,171.6	5.6	5.6	-117.05	266.3	148.8	449.6	441.8	7.88	57.050	
1,500.0	1,443.4	1,281.3	1,224.5	6.5	6.2	-118.27	293.9	165.8	515.7	506.8	8.91	57.857	
1,600.0	1,531.5	1,340.8	1,274.2	7.4	6.8	-119.07	321.8	182.9	583.7	573.8	9.95	58.669	
1,700.0	1,619.6	1,400.0	1,322.6	8.3	7.4	-119.58	350.8	200.7	653.6	642.6	10.99	59.457	
1,800.0	1,707.7	1,452.4	1,364.6	9.1	8.0	-119.85	377.5	217.1	725.0	713.0	12.02	60.304	
1,900.0	1,795.7	1,500.0	1,401.9	10.0	8.6	-119.98	402.6	232.6	798.0	785.0	13.03	61.239	
2,000.0	1,883.8	1,554.6	1,443.8	10.9	9.3	-120.02	432.4	250.9	872.4	858.3	14.09	61.908	
2,100.0	1,971.9	1,600.0	1,477.9	11.8	9.8	-119.97	457.9	266.6	948.1	933.0	15.11	62.764	
2,200.0	2,060.0	1,648.5	1,513.6	12.7	10.4	-119.87	485.9	283.9	1,025.0	1,008.8	16.14	63.493	
2,300.0	2,148.0	1,711.7	1,559.5	13.6	11.2	-119.70	522.9	306.6	1,102.4	1,085.2	17.26	63.875	
2,400.0	2,236.1	1,774.9	1,605.4	14.5	12.0	-119.56	559.9	329.4	1,179.9	1,161.5	18.38	64.204	
2,500.0	2,324.2	1,838.1	1,651.4	15.4	12.8	-119.44	596.9	352.1	1,257.4	1,237.9	19.50	64.492	
2,600.0	2,412.3	1,901.4	1,697.3	16.3	13.6	-119.33	633.9	374.9	1,334.8	1,314.2	20.62	64.745	

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	**Local Co-ordinate Reference:**	Well Nolte 14D-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 14D-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 Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	10.14	33.0	5.9	33.5				
100.0	100.0	100.0	100.0	0.1	0.1	10.14	33.0	5.9	33.5	33.3	0.25	131.532	
200.0	200.0	200.0	200.0	0.3	0.3	10.14	33.0	5.9	33.5	32.9	0.60	55.502	
233.5	233.5	233.5	233.5	0.4	0.4	10.14	33.0	5.9	33.5	32.8	0.72	46.503	CC, ES
300.0	300.0	299.2	299.2	0.5	0.5	10.64	33.5	6.3	34.1	33.1	0.95	35.818	
400.0	400.0	397.4	397.3	0.7	0.7	14.06	37.5	9.4	38.7	37.4	1.30	29.724	
500.0	500.0	494.8	494.1	0.8	0.9	-106.73	45.4	15.5	49.0	47.3	1.66	29.550	SF
600.0	599.6	590.8	589.0	1.0	1.2	-107.86	57.0	24.5	65.5	63.4	2.05	31.924	
700.0	698.8	684.7	680.9	1.3	1.6	-110.06	71.9	36.1	88.1	85.6	2.51	35.115	
800.0	797.1	776.0	769.3	1.6	2.0	-112.20	89.9	50.0	116.9	113.9	3.06	38.270	
900.0	894.3	864.2	853.6	2.1	2.5	-113.91	110.4	65.9	151.8	148.1	3.70	41.050	
1,000.0	990.2	948.8	933.4	2.6	3.0	-115.14	132.9	83.4	192.4	188.0	4.43	43.396	
1,100.0	1,084.4	1,029.8	1,008.3	3.2	3.6	-115.91	157.1	102.1	238.6	233.4	5.26	45.358	
1,200.0	1,176.8	1,106.7	1,078.3	3.9	4.2	-116.27	182.3	121.7	290.0	283.8	6.17	47.011	
1,300.0	1,267.1	1,179.5	1,143.2	4.7	4.8	-116.26	208.3	141.8	346.1	339.0	7.16	48.355	
1,400.0	1,355.4	1,248.4	1,203.6	5.6	5.4	-117.03	234.6	162.2	406.4	398.2	8.22	49.443	
1,500.0	1,443.4	1,314.7	1,260.4	6.5	6.1	-118.03	261.5	183.1	469.1	459.8	9.32	50.357	
1,600.0	1,531.5	1,378.5	1,314.0	7.4	6.7	-118.58	288.9	204.3	533.9	523.4	10.42	51.214	
1,700.0	1,619.6	1,439.9	1,364.4	8.3	7.4	-118.84	316.6	225.7	600.4	588.9	11.53	52.062	
1,800.0	1,707.7	1,506.9	1,418.4	9.1	8.1	-118.93	348.0	250.1	668.4	655.7	12.68	52.708	
1,900.0	1,795.7	1,580.0	1,477.2	10.0	8.9	-118.99	382.4	276.7	736.6	722.7	13.87	53.109	
2,000.0	1,883.8	1,653.2	1,536.0	10.9	9.7	-119.04	416.7	303.4	804.7	789.7	15.06	53.431	
2,100.0	1,971.9	1,726.4	1,594.8	11.8	10.6	-119.08	451.1	330.1	872.9	856.7	16.26	53.695	
2,200.0	2,060.0	1,799.5	1,653.6	12.7	11.4	-119.12	485.5	356.7	941.1	923.6	17.46	53.914	
2,300.0	2,148.0	1,872.7	1,712.4	13.6	12.2	-119.15	519.9	383.4	1,009.3	990.6	18.66	54.098	
2,400.0	2,236.1	1,945.8	1,771.2	14.5	13.0	-119.18	554.3	410.1	1,077.4	1,057.6	19.86	54.254	
2,500.0	2,324.2	2,019.0	1,830.0	15.4	13.8	-119.21	588.7	436.7	1,145.6	1,124.5	21.06	54.389	
2,600.0	2,412.3	2,092.2	1,888.8	16.3	14.6	-119.23	623.1	463.4	1,213.8	1,191.5	22.27	54.506	
2,700.0	2,500.3	2,165.3	1,947.6	17.2	15.4	-119.25	657.5	490.0	1,282.0	1,258.5	23.48	54.608	
2,800.0	2,588.4	2,238.5	2,006.4	18.2	16.2	-119.27	691.9	516.7	1,350.1	1,325.4	24.68	54.698	

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	**Local Co-ordinate Reference:**	Well Nolte 14D-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 14D-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 Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	27.52	35.5	18.5	40.0				
100.0	100.0	99.8	99.8	0.1	0.1	27.52	35.5	18.5	40.0	39.7	0.25	157.273	
200.0	200.0	199.8	199.8	0.3	0.3	27.52	35.5	18.5	40.0	39.4	0.60	66.283	CC, ES
300.0	300.0	297.8	297.7	0.5	0.5	28.59	37.2	20.3	42.4	41.5	0.95	44.540	
400.0	400.0	395.2	394.9	0.7	0.7	31.18	42.4	25.6	49.8	48.5	1.32	37.771	
500.0	500.0	491.7	490.6	0.8	1.0	-90.85	50.9	34.5	62.2	60.5	1.65	37.631	SF
600.0	599.6	586.8	584.1	1.0	1.3	-92.81	62.6	46.6	79.5	77.5	2.04	38.921	
700.0	698.8	679.8	674.8	1.3	1.7	-95.75	77.1	61.6	102.0	99.5	2.51	40.684	
800.0	797.1	770.5	762.1	1.6	2.2	-98.67	94.2	79.3	129.8	126.7	3.07	42.236	
900.0	894.3	858.4	845.4	2.1	2.7	-101.15	113.5	99.3	162.9	159.2	3.75	43.407	
1,000.0	990.2	943.2	924.5	2.6	3.3	-103.10	134.6	121.2	201.3	196.7	4.55	44.259	
1,100.0	1,084.4	1,024.6	999.2	3.2	3.9	-104.53	157.2	144.6	244.6	239.2	5.45	44.907	
1,200.0	1,176.8	1,100.0	1,067.1	3.9	4.5	-105.40	180.0	168.3	292.8	286.3	6.43	45.527	
1,300.0	1,267.1	1,180.3	1,137.9	4.7	5.2	-106.14	206.2	195.4	345.2	337.6	7.54	45.779	
1,400.0	1,355.4	1,262.9	1,210.5	5.6	6.0	-107.92	233.7	223.9	399.7	391.0	8.76	45.639	
1,500.0	1,443.4	1,345.4	1,282.9	6.5	6.7	-109.94	261.0	252.2	454.8	444.8	10.02	45.396	
1,600.0	1,531.5	1,427.9	1,355.4	7.4	7.4	-111.53	288.4	280.6	510.3	499.0	11.28	45.224	
1,700.0	1,619.6	1,510.3	1,427.8	8.3	8.2	-112.81	315.8	309.0	565.9	553.4	12.55	45.099	
1,800.0	1,707.7	1,592.8	1,500.2	9.1	8.9	-113.87	343.2	337.3	621.7	607.9	13.81	45.008	
1,900.0	1,795.7	1,675.3	1,572.7	10.0	9.6	-114.75	370.6	365.7	677.7	662.6	15.08	44.940	
2,000.0	1,883.8	1,757.8	1,645.1	10.9	10.4	-115.50	397.9	394.1	733.7	717.4	16.34	44.890	
2,100.0	1,971.9	1,840.2	1,717.6	11.8	11.1	-116.15	425.3	422.4	789.8	772.2	17.61	44.852	
2,200.0	2,060.0	1,922.7	1,790.0	12.7	11.9	-116.71	452.7	450.8	846.0	827.1	18.87	44.824	
2,300.0	2,148.0	2,005.2	1,862.4	13.6	12.6	-117.20	480.1	479.2	902.2	882.1	20.14	44.802	
2,400.0	2,236.1	2,087.6	1,934.9	14.5	13.3	-117.63	507.4	507.5	958.5	937.1	21.40	44.785	
2,500.0	2,324.2	2,170.1	2,007.3	15.4	14.1	-118.02	534.8	535.9	1,014.8	992.1	22.66	44.772	
2,600.0	2,412.3	2,252.6	2,079.7	16.3	14.8	-118.36	562.2	564.3	1,071.1	1,047.1	23.93	44.763	
2,700.0	2,500.3	2,335.0	2,152.2	17.2	15.5	-118.67	589.6	592.7	1,127.4	1,102.2	25.19	44.756	
2,800.0	2,588.4	2,417.5	2,224.6	18.2	16.3	-118.95	617.0	621.0	1,183.8	1,157.3	26.45	44.750	
2,900.0	2,676.5	2,500.0	2,297.0	19.1	17.0	-119.21	644.3	649.4	1,240.2	1,212.4	27.72	44.747	
3,000.0	2,764.9	2,582.7	2,369.6	19.9	17.8	-120.29	671.8	677.8	1,296.3	1,267.2	29.07	44.586	
3,100.0	2,855.3	2,666.7	2,443.5	20.7	18.5	-121.93	699.7	706.7	1,350.5	1,320.0	30.45	44.349	

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

Company:	Caerus Oil & Gas (NAD 27)	**Local Co-ordinate Reference:**	Well Nolte 14D-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 14D-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 Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	27.51	28.4	14.8	32.0				
100.0	100.0	100.0	100.0	0.1	0.1	27.51	28.4	14.8	32.0	31.7	0.25	125.769	
200.0	200.0	200.0	200.0	0.3	0.3	27.51	28.4	14.8	32.0	31.4	0.60	53.007	
300.0	300.0	300.0	300.0	0.5	0.5	27.51	28.4	14.8	32.0	31.0	0.95	33.580	CC, ES
400.0	400.0	398.5	398.4	0.7	0.7	29.65	29.7	16.9	34.2	32.9	1.30	26.329	
500.0	500.0	496.5	496.2	0.8	0.9	-91.74	33.8	23.3	41.2	39.6	1.66	24.852	SF
600.0	599.6	593.7	592.5	1.0	1.1	-93.64	40.4	33.8	53.0	50.9	2.06	25.735	
700.0	698.8	689.6	686.9	1.3	1.5	-96.76	49.5	48.2	69.6	67.0	2.54	27.406	
800.0	797.1	783.8	778.7	1.6	1.9	-99.80	61.0	66.3	91.2	88.1	3.13	29.109	
900.0	894.3	876.0	867.3	2.1	2.3	-102.31	74.5	87.6	117.9	114.0	3.86	30.553	
1,000.0	990.2	965.9	952.5	2.6	2.9	-104.21	89.9	111.9	149.5	144.8	4.71	31.701	
1,100.0	1,084.4	1,053.3	1,033.9	3.2	3.5	-105.57	106.8	138.7	185.8	180.1	5.70	32.607	
1,200.0	1,176.8	1,138.7	1,112.0	3.9	4.1	-106.49	125.3	167.9	226.6	219.8	6.79	33.383	
1,300.0	1,267.1	1,228.2	1,193.2	4.7	4.8	-107.62	145.4	199.6	270.2	262.2	8.01	33.733	
1,400.0	1,355.4	1,316.5	1,273.4	5.6	5.5	-109.65	165.3	231.0	315.4	306.1	9.31	33.895	
1,500.0	1,443.4	1,404.8	1,353.4	6.5	6.2	-111.72	185.1	262.3	361.2	350.6	10.63	33.987	
1,600.0	1,531.5	1,493.0	1,433.5	7.4	6.9	-113.32	204.9	293.6	407.3	395.3	11.95	34.082	
1,700.0	1,619.6	1,581.2	1,513.6	8.3	7.6	-114.59	224.8	324.9	453.6	440.3	13.27	34.174	
1,800.0	1,707.7	1,669.5	1,593.6	9.1	8.3	-115.64	244.6	356.3	500.0	485.4	14.59	34.261	
1,900.0	1,795.7	1,757.7	1,673.7	10.0	9.0	-116.50	264.4	387.6	546.5	530.6	15.91	34.343	
2,000.0	1,883.8	1,845.9	1,753.8	10.9	9.7	-117.24	284.3	418.9	593.2	575.9	17.23	34.417	
2,100.0	1,971.9	1,934.2	1,833.8	11.8	10.4	-117.86	304.1	450.2	639.8	621.3	18.55	34.486	
2,200.0	2,060.0	2,022.4	1,913.9	12.7	11.1	-118.40	323.9	481.6	686.6	666.7	19.87	34.549	
2,300.0	2,148.0	2,110.6	1,994.0	13.6	11.8	-118.87	343.8	512.9	733.4	712.2	21.19	34.607	
2,400.0	2,236.1	2,198.9	2,074.0	14.5	12.5	-119.29	363.6	544.2	780.2	757.7	22.51	34.660	
2,500.0	2,324.2	2,287.1	2,154.1	15.4	13.2	-119.66	383.4	575.5	827.0	803.2	23.83	34.709	
2,600.0	2,412.3	2,375.3	2,234.2	16.3	13.9	-119.99	403.3	606.9	873.9	848.7	25.14	34.755	
2,700.0	2,500.3	2,463.6	2,314.2	17.2	14.6	-120.28	423.1	638.2	920.8	894.3	26.46	34.796	
2,800.0	2,588.4	2,551.8	2,394.3	18.2	15.3	-120.55	442.9	669.5	967.7	939.9	27.78	34.835	
2,900.0	2,676.5	2,640.0	2,474.4	19.1	16.0	-120.79	462.8	700.8	1,014.6	985.5	29.10	34.871	
3,000.0	2,764.9	2,728.4	2,554.6	19.9	16.7	-121.65	482.7	732.2	1,061.2	1,030.7	30.46	34.842	
3,100.0	2,855.3	2,818.0	2,635.9	20.7	17.4	-122.85	502.8	764.0	1,105.7	1,073.9	31.80	34.771	
3,200.0	2,947.8	2,908.6	2,718.1	21.4	18.1	-123.72	523.2	796.2	1,147.6	1,114.5	33.08	34.692	
3,300.0	3,042.2	3,000.0	2,801.1	21.9	18.8	-124.28	543.7	828.6	1,187.0	1,152.7	34.30	34.606	
3,400.0	3,138.2	3,095.6	2,887.8	22.4	19.6	-124.55	565.2	862.5	1,223.7	1,188.2	35.47	34.494	
3,500.0	3,235.5	3,234.0	3,015.7	22.8	20.5	-124.38	593.4	907.1	1,255.8	1,219.1	36.72	34.196	
3,600.0	3,333.9	3,378.6	3,153.0	23.1	21.3	-124.19	617.6	945.2	1,281.8	1,244.0	37.77	33.939	
3,700.0	3,433.1	3,528.3	3,298.4	23.3	21.9	-124.00	636.6	975.4	1,301.2	1,262.6	38.57	33.739	
3,800.0	3,532.8	3,682.0	3,450.1	23.4	22.3	-123.80	649.8	996.2	1,313.7	1,274.6	39.11	33.591	
3,900.0	3,632.8	3,838.3	3,605.8	23.5	22.5	-0.62	656.4	1,006.7	1,319.1	1,279.7	39.38	33.492	
4,000.0	3,732.8	3,965.2	3,732.8	23.5	22.6	-0.57	657.2	1,007.9	1,319.6	1,280.0	39.53	33.383	
4,100.0	3,832.8	4,065.2	3,832.8	23.6	22.7	-0.57	657.2	1,007.9	1,319.6	1,279.9	39.65	33.280	
4,200.0	3,932.8	4,165.2	3,932.8	23.6	22.7	-0.57	657.2	1,007.9	1,319.6	1,279.8	39.78	33.174	
4,300.0	4,032.8	4,265.2	4,032.8	23.7	22.8	-0.57	657.2	1,007.9	1,319.6	1,279.7	39.91	33.067	
4,400.0	4,132.8	4,365.2	4,132.8	23.8	22.8	-0.57	657.2	1,007.9	1,319.6	1,279.5	40.04	32.959	
4,500.0	4,232.8	4,465.2	4,232.8	23.8	22.9	-0.57	657.2	1,007.9	1,319.6	1,279.4	40.17	32.849	
4,600.0	4,332.8	4,565.2	4,332.8	23.9	23.0	-0.57	657.2	1,007.9	1,319.6	1,279.3	40.31	32.738	
4,700.0	4,432.8	4,665.2	4,432.8	23.9	23.0	-0.57	657.2	1,007.9	1,319.6	1,279.1	40.45	32.625	
4,800.0	4,532.8	4,765.2	4,532.8	24.0	23.1	-0.57	657.2	1,007.9	1,319.6	1,279.0	40.59	32.512	
4,900.0	4,632.8	4,865.2	4,632.8	24.1	23.1	-0.57	657.2	1,007.9	1,319.6	1,278.8	40.73	32.397	
5,000.0	4,732.8	4,965.2	4,732.8	24.1	23.2	-0.57	657.2	1,007.9	1,319.6	1,278.7	40.88	32.281	
5,100.0	4,832.8	5,065.2	4,832.8	24.2	23.3	-0.57	657.2	1,007.9	1,319.6	1,278.5	41.03	32.163	

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

Company:	Caerus Oil & Gas (NAD 27)	**Local Co-ordinate Reference:**	Well Nolte 14D-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 14D-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 Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,200.0	4,932.8	5,165.2	4,932.8	24.2	23.3	-0.57	657.2	1,007.9	1,319.6	1,278.4	41.18	32.045	
5,300.0	5,032.8	5,265.2	5,032.8	24.3	23.4	-0.57	657.2	1,007.9	1,319.6	1,278.2	41.33	31.926	
5,400.0	5,132.8	5,365.2	5,132.8	24.4	23.5	-0.57	657.2	1,007.9	1,319.6	1,278.1	41.49	31.806	
5,500.0	5,232.8	5,465.2	5,232.8	24.4	23.5	-0.57	657.2	1,007.9	1,319.6	1,277.9	41.65	31.685	
5,600.0	5,332.8	5,565.2	5,332.8	24.5	23.6	-0.57	657.2	1,007.9	1,319.6	1,277.8	41.81	31.563	
5,700.0	5,432.8	5,665.2	5,432.8	24.6	23.7	-0.57	657.2	1,007.9	1,319.6	1,277.6	41.97	31.440	
5,800.0	5,532.8	5,765.2	5,532.8	24.7	23.8	-0.57	657.2	1,007.9	1,319.6	1,277.4	42.14	31.317	
5,900.0	5,632.8	5,865.2	5,632.8	24.7	23.8	-0.57	657.2	1,007.9	1,319.6	1,277.3	42.30	31.193	
6,000.0	5,732.8	5,965.2	5,732.8	24.8	23.9	-0.57	657.2	1,007.9	1,319.6	1,277.1	42.47	31.068	
6,097.2	5,830.0	6,062.5	5,830.0	24.9	24.0	-0.57	657.2	1,007.9	1,319.6	1,276.9	42.64	30.946	

Company:	Caerus Oil & Gas (NAD 27)	**Local Co-ordinate Reference:**	Well Nolte 14D-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 14D-13	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	DD	**Database:**	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	**Offset TVD Reference:**	Offset Datum

Offset Design S14-T7S-R96W - Nolte 14A-13 - DD - Plan #3

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	27.50	21.3	11.1	24.0				
100.0	100.0	100.0	100.0	0.1	0.1	27.50	21.3	11.1	24.0	23.7	0.25	94.314	
200.0	200.0	200.0	200.0	0.3	0.3	27.50	21.3	11.1	24.0	23.4	0.60	39.750	
300.0	300.0	300.0	300.0	0.5	0.5	27.50	21.3	11.1	24.0	23.0	0.95	25.181	
400.0	400.0	400.0	400.0	0.7	0.7	27.50	21.3	11.1	24.0	22.7	1.30	18.428	CC, ES
500.0	500.0	499.1	499.0	0.8	0.8	-97.06	22.0	13.5	26.1	24.4	1.66	15.732	SF
600.0	599.6	597.9	597.5	1.0	1.0	-100.56	24.3	20.9	32.4	30.3	2.05	15.771	
700.0	698.8	696.1	694.9	1.3	1.3	-104.01	28.0	33.0	43.0	40.5	2.54	16.981	
800.0	797.1	793.5	790.7	1.6	1.6	-106.60	33.1	49.7	58.1	54.9	3.14	18.502	
900.0	894.3	889.8	884.5	2.1	2.0	-108.31	39.6	70.8	77.3	73.5	3.88	19.912	
1,000.0	990.2	984.9	975.8	2.6	2.5	-109.35	47.3	96.0	100.8	96.0	4.78	21.071	
1,100.0	1,084.4	1,078.4	1,064.2	3.2	3.1	-109.93	56.2	125.1	128.2	122.4	5.83	21.976	
1,200.0	1,176.8	1,170.7	1,150.0	3.9	3.7	-110.18	66.2	157.7	159.5	152.5	7.02	22.731	
1,300.0	1,267.1	1,264.7	1,236.6	4.7	4.4	-111.04	76.8	192.4	193.3	185.0	8.32	23.246	
1,400.0	1,355.4	1,357.8	1,322.5	5.6	5.0	-112.98	87.3	226.8	228.9	219.2	9.66	23.685	
1,500.0	1,443.4	1,450.8	1,408.3	6.5	5.7	-114.82	97.8	261.2	264.9	253.8	11.02	24.027	
1,600.0	1,531.5	1,543.8	1,494.1	7.4	6.4	-116.22	108.3	295.5	301.1	288.7	12.39	24.304	
1,700.0	1,619.6	1,636.8	1,579.9	8.3	7.0	-117.32	118.8	329.9	337.4	323.6	13.75	24.532	
1,800.0	1,707.7	1,729.8	1,665.6	9.1	7.7	-118.21	129.4	364.2	373.8	358.6	15.12	24.723	
1,900.0	1,795.7	1,822.8	1,751.4	10.0	8.4	-118.94	139.9	398.6	410.2	393.7	16.48	24.886	
2,000.0	1,883.8	1,915.8	1,837.2	10.9	9.1	-119.55	150.4	432.9	446.7	428.9	17.85	25.025	
2,100.0	1,971.9	2,008.8	1,923.0	11.8	9.8	-120.07	160.9	467.3	483.3	464.0	19.22	25.146	
2,200.0	2,060.0	2,101.8	2,008.8	12.7	10.4	-120.52	171.4	501.6	519.8	499.3	20.59	25.252	
2,300.0	2,148.0	2,194.8	2,094.6	13.6	11.1	-120.90	181.9	536.0	556.4	534.5	21.95	25.345	
2,400.0	2,236.1	2,287.8	2,180.3	14.5	11.8	-121.24	192.4	570.3	593.1	569.7	23.32	25.429	
2,500.0	2,324.2	2,380.8	2,266.1	15.4	12.5	-121.54	202.9	604.7	629.7	605.0	24.69	25.503	
2,600.0	2,412.3	2,473.8	2,351.9	16.3	13.2	-121.81	213.5	639.0	666.3	640.3	26.06	25.570	
2,700.0	2,500.3	2,566.8	2,437.7	17.2	13.9	-122.05	224.0	673.4	703.0	675.6	27.43	25.630	
2,800.0	2,588.4	2,659.8	2,523.5	18.2	14.5	-122.27	234.5	707.7	739.7	710.9	28.80	25.685	
2,900.0	2,676.5	2,752.8	2,609.3	19.1	15.2	-122.46	245.0	742.1	776.3	746.2	30.17	25.735	
3,000.0	2,764.9	2,845.9	2,695.2	19.9	15.9	-123.08	255.5	776.5	812.7	781.2	31.54	25.766	
3,100.0	2,855.3	2,939.9	2,781.9	20.7	16.6	-123.84	266.1	811.2	846.7	813.8	32.88	25.752	
3,200.0	2,947.8	3,034.7	2,869.3	21.4	17.3	-124.22	276.9	846.2	878.0	843.8	34.18	25.684	
3,300.0	3,042.2	3,134.1	2,961.2	21.9	18.0	-124.25	288.0	882.6	906.5	871.0	35.45	25.571	
3,400.0	3,138.2	3,243.6	3,064.0	22.4	18.7	-124.15	298.9	918.4	931.2	894.6	36.61	25.437	
3,500.0	3,235.5	3,355.2	3,170.9	22.8	19.2	-124.05	308.3	949.0	951.7	914.1	37.58	25.325	
3,600.0	3,333.9	3,468.8	3,281.5	23.1	19.7	-123.94	316.0	973.9	967.9	929.6	38.36	25.232	
3,700.0	3,433.1	3,584.0	3,394.9	23.3	20.0	-123.82	321.7	992.8	979.7	940.8	38.95	25.154	
3,800.0	3,532.8	3,700.2	3,510.4	23.4	20.2	-123.70	325.5	1,005.2	986.9	947.6	39.34	25.090	
3,900.0	3,632.8	3,817.2	3,627.2	23.5	20.4	-0.59	327.2	1,010.8	989.6	950.1	39.53	25.035	
4,000.0	3,732.8	3,922.7	3,732.8	23.5	20.4	-0.56	327.3	1,011.1	989.7	950.0	39.65	24.959	
4,100.0	3,832.8	4,022.7	3,832.8	23.6	20.5	-0.56	327.3	1,011.1	989.7	949.9	39.78	24.882	
4,200.0	3,932.8	4,122.7	3,932.8	23.6	20.5	-0.56	327.3	1,011.1	989.7	949.8	39.90	24.804	
4,300.0	4,032.8	4,222.7	4,032.8	23.7	20.6	-0.56	327.3	1,011.1	989.7	949.7	40.03	24.725	
4,400.0	4,132.8	4,322.7	4,132.8	23.8	20.7	-0.56	327.3	1,011.1	989.7	949.5	40.16	24.645	
4,500.0	4,232.8	4,422.7	4,232.8	23.8	20.7	-0.56	327.3	1,011.1	989.7	949.4	40.29	24.564	
4,600.0	4,332.8	4,522.7	4,332.8	23.9	20.8	-0.56	327.3	1,011.1	989.7	949.3	40.43	24.481	
4,700.0	4,432.8	4,622.7	4,432.8	23.9	20.9	-0.56	327.3	1,011.1	989.7	949.1	40.56	24.398	
4,800.0	4,532.8	4,722.7	4,532.8	24.0	20.9	-0.56	327.3	1,011.1	989.7	949.0	40.70	24.314	
4,900.0	4,632.8	4,822.7	4,632.8	24.1	21.0	-0.56	327.3	1,011.1	989.7	948.8	40.85	24.229	
5,000.0	4,732.8	4,922.7	4,732.8	24.1	21.1	-0.56	327.3	1,011.1	989.7	948.7	40.99	24.143	
5,100.0	4,832.8	5,022.7	4,832.8	24.2	21.1	-0.56	327.3	1,011.1	989.7	948.5	41.14	24.056	

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

Company:	Caerus Oil & Gas (NAD 27)	**Local Co-ordinate Reference:**	Well Nolte 14D-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 14D-13	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	DD	**Database:**	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	**Offset TVD Reference:**	Offset Datum

Offset Design S14-T7S-R96W - Nolte 14A-13 - DD - Plan #3

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,200.0	4,932.8	5,122.7	4,932.8	24.2	21.2	-0.56	327.3	1,011.1	989.7	948.4	41.29	23.968	
5,300.0	5,032.8	5,222.7	5,032.8	24.3	21.3	-0.56	327.3	1,011.1	989.7	948.2	41.44	23.880	
5,400.0	5,132.8	5,322.7	5,132.8	24.4	21.4	-0.56	327.3	1,011.1	989.7	948.1	41.60	23.791	
5,500.0	5,232.8	5,422.7	5,232.8	24.4	21.4	-0.56	327.3	1,011.1	989.7	947.9	41.76	23.701	
5,600.0	5,332.8	5,522.7	5,332.8	24.5	21.5	-0.56	327.3	1,011.1	989.7	947.8	41.92	23.611	
5,700.0	5,432.8	5,622.7	5,432.8	24.6	21.6	-0.56	327.3	1,011.1	989.7	947.6	42.08	23.520	
5,800.0	5,532.8	5,722.7	5,532.8	24.7	21.7	-0.56	327.3	1,011.1	989.7	947.4	42.24	23.429	
5,900.0	5,632.8	5,822.7	5,632.8	24.7	21.7	-0.56	327.3	1,011.1	989.7	947.3	42.41	23.337	
6,000.0	5,732.8	5,922.7	5,732.8	24.8	21.8	-0.56	327.3	1,011.1	989.7	947.1	42.58	23.244	
6,097.2	5,830.0	6,020.0	5,830.0	24.9	21.9	-0.56	327.3	1,011.1	989.7	946.9	42.74	23.154	

Company:	Caerus Oil & Gas (NAD 27)	**Local Co-ordinate Reference:**	Well Nolte 14D-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 14D-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 Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	27.46	14.2	7.4	16.0				
100.0	100.0	100.0	100.0	0.1	0.1	27.46	14.2	7.4	16.0	15.7	0.25	62.832	
200.0	200.0	200.0	200.0	0.3	0.3	27.46	14.2	7.4	16.0	15.4	0.60	26.492	
300.0	300.0	300.0	300.0	0.5	0.5	27.46	14.2	7.4	16.0	15.0	0.95	16.784	
400.0	400.0	400.0	400.0	0.7	0.7	27.46	14.2	7.4	16.0	14.7	1.30	12.283	CC, ES
500.0	500.0	500.0	500.0	0.8	0.8	-104.61	14.2	7.4	16.4	14.8	1.66	9.937	
600.0	599.6	599.7	599.7	1.0	1.0	-125.02	14.2	8.0	19.9	17.9	2.02	9.833	SF
700.0	698.8	699.5	699.3	1.3	1.2	-136.35	14.1	13.2	27.7	25.3	2.41	11.482	
800.0	797.1	799.4	798.7	1.6	1.4	-139.94	13.9	23.6	38.4	35.5	2.85	13.457	
900.0	894.3	899.2	897.3	2.1	1.7	-139.97	13.7	39.2	51.5	48.1	3.40	15.158	
1,000.0	990.2	999.0	994.9	2.6	2.0	-138.49	13.3	59.9	67.0	62.9	4.09	16.366	
1,100.0	1,084.4	1,098.5	1,091.0	3.2	2.5	-136.41	12.9	85.6	84.8	79.8	4.97	17.071	
1,200.0	1,176.8	1,197.7	1,185.3	3.9	3.0	-134.16	12.4	116.1	105.0	99.0	6.04	17.384	
1,300.0	1,267.1	1,296.4	1,277.5	4.7	3.7	-131.91	11.8	151.3	127.7	120.3	7.32	17.438	
1,400.0	1,355.4	1,393.8	1,367.0	5.6	4.4	-130.15	11.2	190.0	152.3	143.6	8.72	17.476	
1,500.0	1,443.4	1,490.6	1,455.6	6.5	5.1	-129.04	10.5	228.8	177.3	167.2	10.14	17.479	
1,600.0	1,531.5	1,587.4	1,544.3	7.4	5.8	-128.20	9.9	267.6	202.3	190.7	11.59	17.460	
1,700.0	1,619.6	1,684.2	1,632.9	8.3	6.5	-127.55	9.2	306.4	227.4	214.3	13.04	17.431	
1,800.0	1,707.7	1,780.9	1,721.6	9.1	7.3	-127.03	8.6	345.2	252.4	237.9	14.51	17.399	
1,900.0	1,795.7	1,877.7	1,810.3	10.0	8.0	-126.60	7.9	384.1	277.5	261.5	15.98	17.368	
2,000.0	1,883.8	1,974.5	1,898.9	10.9	8.7	-126.24	7.3	422.9	302.6	285.1	17.45	17.338	
2,100.0	1,971.9	2,071.3	1,987.6	11.8	9.5	-125.93	6.6	461.7	327.7	308.8	18.93	17.310	
2,200.0	2,060.0	2,168.1	2,076.2	12.7	10.2	-125.67	6.0	500.5	352.8	332.4	20.41	17.284	
2,300.0	2,148.0	2,264.9	2,164.9	13.6	10.9	-125.45	5.4	539.3	377.9	356.0	21.90	17.260	
2,400.0	2,236.1	2,361.7	2,253.6	14.5	11.7	-125.25	4.7	578.1	403.0	379.7	23.38	17.239	
2,500.0	2,324.2	2,458.4	2,342.2	15.4	12.4	-125.08	4.1	616.9	428.2	403.3	24.87	17.219	
2,600.0	2,412.3	2,555.2	2,430.9	16.3	13.2	-124.92	3.4	655.7	453.3	426.9	26.35	17.200	
2,700.0	2,500.3	2,652.0	2,519.5	17.2	13.9	-124.78	2.8	694.5	478.4	450.6	27.84	17.183	
2,800.0	2,588.4	2,748.8	2,608.2	18.2	14.7	-124.66	2.1	733.4	503.6	474.2	29.33	17.168	
2,900.0	2,676.5	2,845.6	2,696.9	19.1	15.4	-124.54	1.5	772.2	528.7	497.9	30.82	17.153	
3,000.0	2,764.9	2,942.4	2,785.6	19.9	16.2	-124.69	0.8	811.0	553.5	521.2	32.30	17.135	
3,100.0	2,855.3	3,039.8	2,874.8	20.7	16.9	-124.73	0.2	850.0	575.7	542.0	33.76	17.051	
3,200.0	2,947.8	3,135.5	2,963.2	21.4	17.6	-124.51	-0.4	886.7	595.3	560.2	35.12	16.952	
3,300.0	3,042.2	3,231.8	3,053.9	21.9	18.1	-124.33	-0.9	919.0	612.4	576.1	36.29	16.875	
3,400.0	3,138.2	3,328.8	3,146.8	22.4	18.6	-124.17	-1.4	946.9	627.0	589.7	37.29	16.812	
3,500.0	3,235.5	3,426.4	3,241.5	22.8	19.0	-124.02	-1.8	970.2	638.9	600.8	38.12	16.760	
3,600.0	3,333.9	3,524.6	3,337.9	23.1	19.4	-123.89	-2.1	988.7	648.2	609.4	38.77	16.717	
3,700.0	3,433.1	3,623.1	3,435.5	23.3	19.6	-123.77	-2.3	1,002.3	654.8	615.5	39.26	16.680	
3,800.0	3,532.8	3,721.9	3,534.0	23.4	19.7	-123.66	-2.5	1,010.9	658.7	619.1	39.57	16.646	
3,900.0	3,632.8	3,821.0	3,632.9	23.5	19.8	-0.57	-2.5	1,014.3	659.8	620.1	39.73	16.606	
3,940.3	3,673.0	3,861.1	3,673.0	23.5	19.8	-0.56	-2.5	1,014.4	659.8	620.0	39.78	16.586	
4,000.0	3,732.8	3,920.8	3,732.8	23.5	19.9	-0.56	-2.5	1,014.4	659.8	619.9	39.85	16.556	
4,100.0	3,832.8	4,020.8	3,832.8	23.6	19.9	-0.56	-2.5	1,014.4	659.8	619.8	39.97	16.506	
4,200.0	3,932.8	4,120.8	3,932.8	23.6	20.0	-0.56	-2.5	1,014.4	659.8	619.7	40.10	16.455	
4,300.0	4,032.8	4,220.8	4,032.8	23.7	20.1	-0.56	-2.5	1,014.4	659.8	619.6	40.22	16.403	
4,400.0	4,132.8	4,320.8	4,132.8	23.8	20.1	-0.56	-2.5	1,014.4	659.8	619.4	40.35	16.350	
4,500.0	4,232.8	4,420.8	4,232.8	23.8	20.2	-0.56	-2.5	1,014.4	659.8	619.3	40.49	16.297	
4,600.0	4,332.8	4,520.8	4,332.8	23.9	20.3	-0.56	-2.5	1,014.4	659.8	619.2	40.62	16.243	
4,700.0	4,432.8	4,620.8	4,432.8	23.9	20.3	-0.56	-2.5	1,014.4	659.8	619.0	40.76	16.188	
4,800.0	4,532.8	4,720.8	4,532.8	24.0	20.4	-0.56	-2.5	1,014.4	659.8	618.9	40.90	16.133	
4,900.0	4,632.8	4,820.8	4,632.8	24.1	20.5	-0.56	-2.5	1,014.4	659.8	618.7	41.04	16.077	
5,000.0	4,732.8	4,920.8	4,732.8	24.1	20.5	-0.56	-2.5	1,014.4	659.8	618.6	41.18	16.020	

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

Company:	Caerus Oil & Gas (NAD 27)	**Local Co-ordinate Reference:**	Well Nolte 14D-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 14D-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 Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,100.0	4,832.8	5,020.8	4,832.8	24.2	20.6	-0.56	-2.5	1,014.4	659.8	618.5	41.33	15.963	
5,200.0	4,932.8	5,120.8	4,932.8	24.2	20.7	-0.56	-2.5	1,014.4	659.8	618.3	41.48	15.906	
5,300.0	5,032.8	5,220.8	5,032.8	24.3	20.8	-0.56	-2.5	1,014.4	659.8	618.2	41.63	15.847	
5,400.0	5,132.8	5,320.8	5,132.8	24.4	20.8	-0.56	-2.5	1,014.4	659.8	618.0	41.79	15.789	
5,500.0	5,232.8	5,420.8	5,232.8	24.4	20.9	-0.56	-2.5	1,014.4	659.8	617.8	41.94	15.730	
5,600.0	5,332.8	5,520.8	5,332.8	24.5	21.0	-0.56	-2.5	1,014.4	659.8	617.7	42.10	15.671	
5,700.0	5,432.8	5,620.8	5,432.8	24.6	21.1	-0.56	-2.5	1,014.4	659.8	617.5	42.26	15.611	
5,800.0	5,532.8	5,720.8	5,532.8	24.7	21.2	-0.56	-2.5	1,014.4	659.8	617.4	42.43	15.551	
5,900.0	5,632.8	5,820.8	5,632.8	24.7	21.2	-0.56	-2.5	1,014.4	659.8	617.2	42.59	15.490	
6,000.0	5,732.8	5,920.8	5,732.8	24.8	21.3	-0.56	-2.5	1,014.4	659.8	617.0	42.76	15.429	
6,097.2	5,830.0	6,018.1	5,830.0	24.9	21.4	-0.56	-2.5	1,014.4	659.8	616.9	42.93	15.370	

Company:	Caerus Oil & Gas (NAD 27)	**Local Co-ordinate Reference:**	Well Nolte 14D-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 14D-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 Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	26.08	7.6	3.7	8.5				
100.0	100.0	100.0	100.0	0.1	0.1	26.08	7.6	3.7	8.5	8.2	0.25	33.307	
200.0	200.0	200.0	200.0	0.3	0.3	26.08	7.6	3.7	8.5	7.9	0.60	14.049	
300.0	300.0	300.0	300.0	0.5	0.5	26.08	7.6	3.7	8.5	7.5	0.95	8.902	
400.0	400.0	400.0	400.0	0.7	0.7	26.08	7.6	3.7	8.5	7.2	1.30	6.515	CC
400.0	400.0	400.0	400.0	0.7	0.7	26.08	7.6	3.7	8.5	7.2	1.30	6.515	ES
500.0	500.0	500.0	500.0	0.8	0.8	-113.32	7.6	3.7	9.2	7.5	1.65	5.542	SF
600.0	599.6	600.0	600.0	1.0	1.0	-134.60	6.8	6.2	12.7	10.7	2.02	6.303	
700.0	698.8	700.3	700.0	1.3	1.2	-142.67	4.2	13.7	18.1	15.7	2.41	7.514	
800.0	797.1	800.8	799.6	1.6	1.5	-144.65	-0.1	26.1	24.4	21.6	2.85	8.588	
900.0	894.3	901.5	898.6	2.1	1.8	-144.00	-6.1	43.5	31.6	28.3	3.38	9.358	
1,000.0	990.2	1,002.4	996.6	2.6	2.2	-142.17	-13.8	65.8	39.7	35.6	4.06	9.777	
1,100.0	1,084.4	1,103.4	1,093.4	3.2	2.7	-139.84	-23.2	93.1	48.6	43.6	4.91	9.880	
1,200.0	1,176.8	1,204.6	1,188.7	3.9	3.3	-137.32	-34.3	125.2	58.4	52.4	5.98	9.752	
1,300.0	1,267.1	1,305.8	1,282.1	4.7	4.1	-134.79	-47.0	162.0	69.1	61.8	7.28	9.492	
1,400.0	1,355.4	1,405.7	1,372.7	5.6	4.8	-132.77	-60.8	202.0	80.8	72.1	8.70	9.289	
1,500.0	1,443.4	1,505.0	1,462.5	6.5	5.6	-131.42	-74.6	241.9	92.8	82.6	10.15	9.140	
1,600.0	1,531.5	1,604.3	1,552.3	7.4	6.4	-130.38	-88.4	281.8	104.8	93.1	11.62	9.016	
1,700.0	1,619.6	1,703.5	1,642.2	8.3	7.2	-129.55	-102.2	321.7	116.8	103.7	13.11	8.911	
1,800.0	1,707.7	1,802.8	1,732.0	9.1	8.0	-128.87	-115.9	361.7	128.8	114.2	14.60	8.824	
1,900.0	1,795.7	1,902.0	1,821.8	10.0	8.8	-128.31	-129.7	401.6	140.9	124.8	16.10	8.749	
2,000.0	1,883.8	2,001.3	1,911.7	10.9	9.6	-127.84	-143.5	441.5	152.9	135.3	17.61	8.685	
2,100.0	1,971.9	2,100.6	2,001.5	11.8	10.4	-127.44	-157.3	481.4	165.0	145.9	19.12	8.630	
2,200.0	2,060.0	2,199.8	2,091.3	12.7	11.2	-127.09	-171.1	521.3	177.1	156.5	20.64	8.582	
2,300.0	2,148.0	2,299.1	2,181.1	13.6	12.0	-126.79	-184.8	561.2	189.2	167.0	22.15	8.540	
2,400.0	2,236.1	2,398.4	2,271.0	14.5	12.8	-126.53	-198.6	601.2	201.3	177.6	23.67	8.502	
2,500.0	2,324.2	2,497.6	2,360.8	15.4	13.6	-126.29	-212.4	641.1	213.4	188.2	25.19	8.469	
2,600.0	2,412.3	2,596.9	2,450.6	16.3	14.4	-126.08	-226.2	681.0	225.5	198.8	26.72	8.439	
2,700.0	2,500.3	2,696.1	2,540.5	17.2	15.2	-125.89	-239.9	720.9	237.6	209.3	28.24	8.413	
2,800.0	2,588.4	2,795.4	2,630.3	18.2	16.1	-125.72	-253.7	760.8	249.7	219.9	29.76	8.388	
2,900.0	2,676.5	2,894.7	2,720.1	19.1	16.9	-125.56	-267.5	800.8	261.8	230.5	31.29	8.366	
3,000.0	2,764.9	2,994.0	2,810.0	19.9	17.7	-125.45	-281.3	840.7	273.5	240.7	32.82	8.334	
3,100.0	2,855.3	3,088.9	2,896.6	20.7	18.4	-125.07	-294.0	877.4	283.3	249.0	34.27	8.268	
3,200.0	2,947.8	3,183.2	2,984.4	21.4	19.0	-124.74	-305.1	909.8	292.0	256.5	35.54	8.217	
3,300.0	3,042.2	3,277.5	3,073.9	21.9	19.5	-124.47	-314.9	938.1	299.6	262.9	36.64	8.176	
3,400.0	3,138.2	3,372.0	3,164.8	22.4	19.9	-124.24	-323.2	962.2	305.9	268.4	37.57	8.144	
3,500.0	3,235.5	3,466.5	3,256.9	22.8	20.3	-124.04	-330.1	982.0	311.1	272.8	38.33	8.118	
3,600.0	3,333.9	3,561.0	3,350.0	23.1	20.6	-123.88	-335.4	997.6	315.2	276.2	38.93	8.096	
3,700.0	3,433.1	3,655.6	3,443.9	23.3	20.8	-123.74	-339.3	1,008.7	318.0	278.6	39.37	8.077	
3,800.0	3,532.8	3,750.2	3,538.2	23.4	20.9	-123.63	-341.6	1,015.4	319.5	279.9	39.65	8.059	
3,900.0	3,632.8	3,844.9	3,632.9	23.5	21.0	-0.56	-342.4	1,017.8	319.9	280.1	39.80	8.037	
3,934.1	3,666.9	3,878.9	3,666.9	23.5	21.0	-0.56	-342.4	1,017.8	319.9	280.1	39.84	8.029	
4,000.0	3,732.8	3,944.8	3,732.8	23.5	21.0	-0.56	-342.4	1,017.8	319.9	280.0	39.92	8.013	
4,100.0	3,832.8	4,044.8	3,832.8	23.6	21.1	-0.56	-342.4	1,017.8	319.9	279.9	40.04	7.989	
4,200.0	3,932.8	4,144.8	3,932.8	23.6	21.1	-0.56	-342.4	1,017.8	319.9	279.7	40.17	7.964	
4,300.0	4,032.8	4,244.8	4,032.8	23.7	21.2	-0.56	-342.4	1,017.8	319.9	279.6	40.29	7.939	
4,400.0	4,132.8	4,344.8	4,132.8	23.8	21.3	-0.56	-342.4	1,017.8	319.9	279.5	40.42	7.914	
4,500.0	4,232.8	4,444.8	4,232.8	23.8	21.3	-0.56	-342.4	1,017.8	319.9	279.3	40.56	7.888	
4,600.0	4,332.8	4,544.8	4,332.8	23.9	21.4	-0.56	-342.4	1,017.8	319.9	279.2	40.69	7.862	
4,700.0	4,432.8	4,644.8	4,432.8	23.9	21.5	-0.56	-342.4	1,017.8	319.9	279.1	40.83	7.835	
4,800.0	4,532.8	4,744.8	4,532.8	24.0	21.5	-0.56	-342.4	1,017.8	319.9	278.9	40.97	7.809	
4,900.0	4,632.8	4,844.8	4,632.8	24.1	21.6	-0.56	-342.4	1,017.8	319.9	278.8	41.11	7.781	

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

Company:	Caerus Oil & Gas (NAD 27)	**Local Co-ordinate Reference:**	Well Nolte 14D-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 14D-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 Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,000.0	4,732.8	4,944.8	4,732.8	24.1	21.7	-0.56	-342.4	1,017.8	319.9	278.6	41.25	7.754	
5,100.0	4,832.8	5,044.8	4,832.8	24.2	21.7	-0.56	-342.4	1,017.8	319.9	278.5	41.40	7.727	
5,200.0	4,932.8	5,144.8	4,932.8	24.2	21.8	-0.56	-342.4	1,017.8	319.9	278.3	41.55	7.699	
5,300.0	5,032.8	5,244.8	5,032.8	24.3	21.9	-0.56	-342.4	1,017.8	319.9	278.2	41.70	7.671	
5,400.0	5,132.8	5,344.8	5,132.8	24.4	21.9	-0.56	-342.4	1,017.8	319.9	278.0	41.86	7.642	
5,500.0	5,232.8	5,444.8	5,232.8	24.4	22.0	-0.56	-342.4	1,017.8	319.9	277.9	42.01	7.614	
5,600.0	5,332.8	5,544.8	5,332.8	24.5	22.1	-0.56	-342.4	1,017.8	319.9	277.7	42.17	7.585	
5,700.0	5,432.8	5,644.8	5,432.8	24.6	22.2	-0.56	-342.4	1,017.8	319.9	277.6	42.34	7.556	
5,800.0	5,532.8	5,744.8	5,532.8	24.7	22.3	-0.56	-342.4	1,017.8	319.9	277.4	42.50	7.527	
5,900.0	5,632.8	5,844.8	5,632.8	24.7	22.3	-0.56	-342.4	1,017.8	319.9	277.2	42.66	7.498	
6,000.0	5,732.8	5,944.8	5,732.8	24.8	22.4	-0.56	-342.4	1,017.8	319.9	277.1	42.83	7.468	
6,097.2	5,830.0	6,042.0	5,830.0	24.9	22.5	-0.56	-342.4	1,017.8	319.9	276.9	43.00	7.440	

Company:	Caerus Oil & Gas (NAD 27)	**Local Co-ordinate Reference:**	Well Nolte 14D-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 14D-13	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	DD	**Database:**	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	**Offset TVD Reference:**	Offset Datum

Offset Design S14-T7S-R96W - Nolte 43A-14 - DD - Plan #3

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	4.86	25.9	2.2	26.0				
100.0	100.0	100.0	100.0	0.1	0.1	4.86	25.9	2.2	26.0	25.7	0.26	101.918	
200.0	200.0	200.0	200.0	0.3	0.3	4.86	25.9	2.2	26.0	25.4	0.60	43.025	
300.0	300.0	300.0	300.0	0.5	0.5	4.86	25.9	2.2	26.0	25.0	0.95	27.268	CC, ES
400.0	400.0	398.6	398.6	0.7	0.7	3.46	28.4	1.7	28.5	27.2	1.31	21.818	SF
500.0	500.0	496.5	496.1	0.8	0.9	-125.65	35.8	0.3	37.5	35.8	1.65	22.731	
600.0	599.6	592.4	591.2	1.0	1.1	-133.61	47.8	-2.1	55.2	53.2	2.00	27.593	
700.0	698.8	685.0	682.4	1.3	1.4	-139.45	63.9	-5.2	82.2	79.9	2.37	34.770	
800.0	797.1	773.5	768.6	1.6	1.8	-143.13	83.2	-9.0	118.2	115.4	2.74	43.061	
900.0	894.3	856.9	849.0	2.1	2.2	-145.35	105.0	-13.2	162.4	159.3	3.14	51.696	
1,000.0	990.2	934.7	923.1	2.6	2.6	-146.62	128.5	-17.8	214.3	210.7	3.56	60.199	
1,100.0	1,084.4	1,006.5	990.5	3.2	3.1	-147.24	152.7	-22.5	273.2	269.2	4.00	68.260	
1,200.0	1,176.8	1,072.0	1,051.2	3.9	3.5	-147.36	177.0	-27.3	338.3	333.9	4.48	75.599	
1,300.0	1,267.1	1,131.4	1,105.3	4.7	4.0	-147.08	200.7	-31.9	409.1	404.2	4.99	82.032	
1,400.0	1,355.4	1,185.0	1,153.7	5.6	4.4	-147.49	223.6	-36.4	484.5	479.0	5.52	87.757	
1,500.0	1,443.4	1,235.3	1,198.4	6.5	4.8	-148.30	246.2	-40.8	561.8	555.7	6.06	92.769	
1,600.0	1,531.5	1,282.9	1,240.1	7.4	5.2	-148.85	268.7	-45.2	640.6	634.0	6.59	97.156	
1,700.0	1,619.6	1,327.7	1,278.8	8.3	5.7	-149.22	290.8	-49.5	720.8	713.7	7.14	101.023	
1,800.0	1,707.7	1,370.1	1,315.0	9.1	6.1	-149.47	312.5	-53.7	802.3	794.6	7.68	104.482	
1,900.0	1,795.7	1,400.0	1,340.2	10.0	6.3	-149.60	328.3	-56.8	885.0	876.8	8.20	107.874	
2,000.0	1,883.8	1,448.0	1,380.1	10.9	6.8	-149.75	354.5	-61.9	968.5	959.8	8.77	110.437	
2,100.0	1,971.9	1,500.0	1,422.6	11.8	7.4	-149.82	383.9	-67.6	1,053.3	1,044.0	9.35	112.654	
2,200.0	2,060.0	1,517.9	1,437.0	12.7	7.6	-149.83	394.3	-69.7	1,138.6	1,128.8	9.86	115.437	
2,300.0	2,148.0	1,550.1	1,462.7	13.6	7.9	-149.83	413.3	-73.4	1,224.9	1,214.5	10.41	117.648	
2,400.0	2,236.1	1,580.6	1,486.8	14.5	8.2	-149.82	431.7	-77.0	1,312.0	1,301.0	10.96	119.719	

Company:	Caerus Oil & Gas (NAD 27)	**Local Co-ordinate Reference:**	Well Nolte 14D-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 14D-13	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	DD	**Database:**	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	**Offset TVD Reference:**	Offset Datum

Offset Design S14-T7S-R96W - Nolte 43B-14 - DD - Plan #3

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-4.55	18.8	-1.5	18.9				
100.0	100.0	100.0	100.0	0.1	0.1	-4.55	18.8	-1.5	18.9	18.6	0.26	73.958	
200.0	200.0	200.0	200.0	0.3	0.3	-4.55	18.8	-1.5	18.9	18.3	0.60	31.230	
300.0	300.0	300.0	300.0	0.5	0.5	-4.55	18.8	-1.5	18.9	17.9	0.95	19.794	
333.4	333.4	333.4	333.4	0.5	0.5	-4.55	18.8	-1.5	18.9	17.8	1.07	17.640	CC, ES
400.0	400.0	399.5	399.5	0.7	0.7	-4.83	19.4	-1.6	19.5	18.2	1.30	14.987	SF
500.0	500.0	498.1	497.9	0.8	0.8	-133.73	24.4	-2.8	26.4	24.7	1.65	15.988	
600.0	599.6	594.9	594.2	1.0	1.1	-141.55	34.1	-5.1	42.5	40.5	2.00	21.212	
700.0	698.8	688.8	687.0	1.3	1.3	-146.56	48.0	-8.3	68.0	65.6	2.36	28.804	
800.0	797.1	778.6	775.0	1.6	1.7	-149.36	65.4	-12.4	102.5	99.8	2.73	37.568	
900.0	894.3	863.5	857.3	2.1	2.0	-150.89	85.6	-17.2	145.5	142.4	3.11	46.768	
1,000.0	990.2	942.8	933.3	2.6	2.5	-151.65	107.7	-22.3	196.3	192.7	3.51	55.944	
1,100.0	1,084.4	1,016.0	1,002.6	3.2	2.9	-151.92	130.7	-27.7	254.2	250.2	3.92	64.790	
1,200.0	1,176.8	1,082.9	1,065.1	3.9	3.3	-151.81	154.1	-33.2	318.6	314.2	4.36	73.027	
1,300.0	1,267.1	1,143.5	1,120.9	4.7	3.7	-151.40	177.0	-38.6	388.7	383.9	4.83	80.427	
1,400.0	1,355.4	1,200.0	1,172.2	5.6	4.2	-151.63	199.9	-44.0	463.5	458.2	5.33	86.981	
1,500.0	1,443.4	1,249.7	1,216.8	6.5	4.6	-152.18	221.4	-49.0	540.3	534.5	5.83	92.657	
1,600.0	1,531.5	1,300.0	1,261.3	7.4	5.0	-152.55	244.1	-54.3	618.7	612.4	6.34	97.574	
1,700.0	1,619.6	1,344.0	1,299.7	8.3	5.4	-152.75	265.0	-59.2	698.5	691.6	6.85	101.953	
1,800.0	1,707.7	1,400.0	1,347.9	9.1	5.9	-152.90	292.8	-65.8	779.6	772.2	7.39	105.507	
1,900.0	1,795.7	1,435.4	1,378.0	10.0	6.2	-152.95	310.9	-70.0	861.6	853.7	7.89	109.154	
2,000.0	1,883.8	1,492.2	1,426.3	10.9	6.7	-153.01	340.1	-76.8	943.9	935.4	8.44	111.785	
2,100.0	1,971.9	1,549.1	1,474.6	11.8	7.3	-153.06	369.3	-83.7	1,026.1	1,017.1	9.00	114.052	
2,200.0	2,060.0	1,605.9	1,522.9	12.7	7.8	-153.11	398.5	-90.5	1,108.4	1,098.8	9.55	116.039	
2,300.0	2,148.0	1,662.8	1,571.2	13.6	8.3	-153.14	427.6	-97.4	1,190.7	1,180.6	10.11	117.778	
2,400.0	2,236.1	1,719.6	1,619.5	14.5	8.8	-153.18	456.8	-104.2	1,272.9	1,262.3	10.67	119.322	
2,500.0	2,324.2	1,776.4	1,667.8	15.4	9.4	-153.21	486.0	-111.0	1,355.2	1,344.0	11.23	120.695	

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	**Local Co-ordinate Reference:**	Well Nolte 14D-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 14D-13	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	DD	**Database:**	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	**Offset TVD Reference:**	Offset Datum

Offset Design S14-T7S-R96W - Nolte 43C-14 - DD - Plan #3

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance 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	0.26	50.169	
200.0	200.0	200.0	200.0	0.3	0.3	-23.80	11.7	-5.2	12.8	12.2	0.60	21.192	
300.0	300.0	300.0	300.0	0.5	0.5	-23.80	11.7	-5.2	12.8	11.9	0.95	13.433	
400.0	400.0	400.0	400.0	0.7	0.7	-23.80	11.7	-5.2	12.8	11.5	1.30	9.833	CC, ES, SF
500.0	500.0	499.1	499.0	0.8	0.8	-150.79	14.1	-6.1	17.6	16.0	1.65	10.684	
600.0	599.6	596.8	596.4	1.0	1.0	-155.51	21.2	-8.6	32.2	30.2	2.00	16.138	
700.0	698.8	691.6	690.5	1.3	1.3	-157.84	32.6	-12.8	56.4	54.1	2.34	24.073	
800.0	797.1	782.5	780.0	1.6	1.6	-158.88	47.6	-18.3	89.8	87.2	2.69	33.344	
900.0	894.3	868.5	863.8	2.1	1.9	-159.28	65.4	-24.8	131.9	128.9	3.05	43.279	
1,000.0	990.2	948.7	941.2	2.6	2.3	-159.34	85.3	-32.0	182.0	178.6	3.41	53.448	
1,100.0	1,084.4	1,022.8	1,011.8	3.2	2.7	-159.17	106.3	-39.7	239.5	235.7	3.77	63.589	
1,200.0	1,176.8	1,098.9	1,083.8	3.9	3.1	-158.96	129.5	-48.2	302.7	298.6	4.15	72.936	
1,300.0	1,267.1	1,173.0	1,153.8	4.7	3.5	-158.81	152.2	-56.5	369.7	365.2	4.55	81.244	
1,400.0	1,355.4	1,244.3	1,221.2	5.6	3.9	-159.22	174.0	-64.4	439.8	434.8	4.97	88.419	
1,500.0	1,443.4	1,315.2	1,288.3	6.5	4.3	-159.86	195.7	-72.4	510.1	504.7	5.41	94.255	
1,600.0	1,531.5	1,386.1	1,355.4	7.4	4.7	-160.34	217.4	-80.3	580.5	574.7	5.85	99.161	
1,700.0	1,619.6	1,457.1	1,422.4	8.3	5.2	-160.72	239.1	-88.2	650.9	644.6	6.30	103.337	
1,800.0	1,707.7	1,528.0	1,489.5	9.1	5.6	-161.03	260.8	-96.2	721.4	714.6	6.75	106.937	
1,900.0	1,795.7	1,599.0	1,556.6	10.0	6.0	-161.28	282.5	-104.1	791.8	784.6	7.19	110.069	
2,000.0	1,883.8	1,669.9	1,623.7	10.9	6.4	-161.49	304.2	-112.0	862.3	854.6	7.64	112.808	
2,100.0	1,971.9	1,740.9	1,690.7	11.8	6.8	-161.67	325.9	-119.9	932.7	924.6	8.09	115.231	
2,200.0	2,060.0	1,811.8	1,757.8	12.7	7.3	-161.83	347.6	-127.9	1,003.1	994.6	8.55	117.387	
2,300.0	2,148.0	1,882.8	1,824.9	13.6	7.7	-161.96	369.3	-135.8	1,073.6	1,064.6	9.00	119.315	
2,400.0	2,236.1	1,953.7	1,892.0	14.5	8.1	-162.08	391.0	-143.7	1,144.1	1,134.6	9.45	121.049	
2,500.0	2,324.2	2,024.7	1,959.1	15.4	8.5	-162.18	412.8	-151.7	1,214.5	1,204.6	9.90	122.619	
2,600.0	2,412.3	2,095.6	2,026.1	16.3	8.9	-162.27	434.5	-159.6	1,285.0	1,274.6	10.36	124.045	
2,700.0	2,500.3	2,166.6	2,093.2	17.2	9.4	-162.36	456.2	-167.5	1,355.4	1,344.6	10.81	125.345	

CC - Min centre to center distance or covergent 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 14D-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 14D-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 Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-62.45	4.6	-8.9	10.0				
100.0	100.0	100.0	100.0	0.1	0.1	-62.45	4.6	-8.9	10.0	9.7	0.26	39.150	
200.0	200.0	200.0	200.0	0.3	0.3	-62.45	4.6	-8.9	10.0	9.4	0.60	16.546	
300.0	300.0	300.0	300.0	0.5	0.5	-62.45	4.6	-8.9	10.0	9.0	0.95	10.490	
400.0	400.0	400.0	400.0	0.7	0.7	-62.45	4.6	-8.9	10.0	8.7	1.30	7.679	CC, ES, SF
500.0	500.0	499.8	499.8	0.8	0.8	176.70	5.0	-9.1	13.0	11.3	1.65	7.868	
600.0	599.6	598.6	598.5	1.0	1.0	-177.95	8.0	-10.8	23.9	21.9	1.99	11.979	
700.0	698.8	695.7	695.4	1.3	1.2	-174.60	13.8	-14.0	43.1	40.8	2.33	18.498	
800.0	797.1	790.1	789.3	1.6	1.4	-172.77	22.2	-18.7	70.5	67.8	2.66	26.478	
900.0	894.3	881.0	879.4	2.1	1.6	-171.67	32.8	-24.7	105.7	102.7	2.99	35.388	
1,000.0	990.2	967.8	965.0	2.6	1.9	-170.93	45.3	-31.7	148.4	145.1	3.30	44.904	
1,100.0	1,084.4	1,049.9	1,045.5	3.2	2.2	-170.35	59.2	-39.5	198.1	194.5	3.61	54.817	
1,200.0	1,176.8	1,126.7	1,120.4	3.9	2.5	-169.86	74.0	-47.8	254.5	250.6	3.92	64.975	
1,300.0	1,267.1	1,200.0	1,191.5	4.7	2.8	-169.39	89.7	-56.7	316.9	312.7	4.22	75.185	
1,400.0	1,355.4	1,264.3	1,253.3	5.6	3.1	-169.19	104.8	-65.2	384.4	379.8	4.54	84.717	
1,500.0	1,443.4	1,327.6	1,313.9	6.5	3.5	-169.13	120.9	-74.2	453.7	448.8	4.88	92.907	
1,600.0	1,531.5	1,388.3	1,371.7	7.4	3.8	-169.02	137.4	-83.5	524.5	519.3	5.23	100.265	
1,700.0	1,619.6	1,456.9	1,436.5	8.3	4.2	-168.88	156.8	-94.4	596.2	590.6	5.60	106.477	
1,800.0	1,707.7	1,526.6	1,502.4	9.1	4.6	-168.78	176.5	-105.4	667.8	661.9	5.97	111.858	
1,900.0	1,795.7	1,596.3	1,568.4	10.0	5.0	-168.69	196.2	-116.5	739.5	733.1	6.34	116.572	
2,000.0	1,883.8	1,666.1	1,634.4	10.9	5.4	-168.62	215.9	-127.6	811.2	804.4	6.72	120.709	
2,100.0	1,971.9	1,735.8	1,700.4	11.8	5.8	-168.55	235.6	-138.6	882.8	875.7	7.10	124.392	
2,200.0	2,060.0	1,805.5	1,766.3	12.7	6.2	-168.50	255.3	-149.7	954.5	947.0	7.48	127.686	
2,300.0	2,148.0	1,875.3	1,832.3	13.6	6.6	-168.46	275.0	-160.8	1,026.2	1,018.3	7.86	130.635	
2,400.0	2,236.1	1,945.0	1,898.3	14.5	7.0	-168.42	294.7	-171.8	1,097.8	1,089.6	8.24	133.299	
2,500.0	2,324.2	2,014.7	1,964.2	15.4	7.4	-168.39	314.4	-182.9	1,169.5	1,160.9	8.62	135.719	
2,600.0	2,412.3	2,084.5	2,030.2	16.3	7.8	-168.36	334.1	-194.0	1,241.2	1,232.2	9.00	137.920	
2,700.0	2,500.3	2,154.2	2,096.2	17.2	8.2	-168.33	353.8	-205.1	1,312.9	1,303.5	9.38	139.930	

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	**Local Co-ordinate Reference:**	Well Nolte 14D-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 14D-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 Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-101.11	-2.5	-12.6	12.8				
100.0	100.0	100.0	100.0	0.1	0.1	-101.11	-2.5	-12.6	12.8	12.6	0.26	50.106	
200.0	200.0	200.0	200.0	0.3	0.3	-101.11	-2.5	-12.6	12.8	12.2	0.60	21.183	
300.0	300.0	300.0	300.0	0.5	0.5	-101.11	-2.5	-12.6	12.8	11.9	0.95	13.431	
400.0	400.0	400.0	400.0	0.7	0.7	-101.11	-2.5	-12.6	12.8	11.5	1.30	9.832	CC, ES
500.0	500.0	500.0	500.0	0.8	0.8	142.94	-2.5	-12.6	14.8	13.1	1.65	8.956	SF
600.0	599.6	598.5	598.5	1.0	1.0	157.58	-1.2	-14.8	24.0	22.0	2.00	12.010	
700.0	698.8	694.7	694.4	1.3	1.2	167.10	2.4	-21.2	43.9	41.5	2.33	18.815	
800.0	797.1	789.6	788.7	1.6	1.4	171.59	7.8	-30.6	72.8	70.2	2.65	27.435	
900.0	894.3	883.5	881.9	2.1	1.6	173.82	13.2	-40.0	107.1	104.1	2.97	36.087	
1,000.0	990.2	975.4	973.2	2.6	1.9	175.11	18.5	-49.3	146.3	143.0	3.27	44.745	
1,100.0	1,084.4	1,065.2	1,062.4	3.2	2.1	175.94	23.6	-58.3	190.3	186.7	3.56	53.466	
1,200.0	1,176.8	1,152.5	1,149.1	3.9	2.3	176.51	28.6	-67.1	238.9	235.1	3.84	62.298	
1,300.0	1,267.1	1,237.2	1,233.2	4.7	2.5	176.92	33.5	-75.6	292.1	288.0	4.10	71.281	
1,400.0	1,355.4	1,319.4	1,314.9	5.6	2.7	177.27	38.2	-83.9	348.9	344.5	4.38	79.594	
1,500.0	1,443.4	1,401.4	1,396.4	6.5	2.9	177.56	42.9	-92.2	406.1	401.4	4.69	86.527	
1,600.0	1,531.5	1,483.4	1,477.8	7.4	3.2	177.78	47.6	-100.4	463.4	458.4	5.00	92.609	
1,700.0	1,619.6	1,565.4	1,559.3	8.3	3.4	177.95	52.3	-108.7	520.6	515.3	5.31	97.991	
1,800.0	1,707.7	1,647.4	1,640.7	9.1	3.6	178.09	57.0	-117.0	577.8	572.2	5.62	102.787	
1,900.0	1,795.7	1,729.4	1,722.2	10.0	3.8	178.20	61.7	-125.2	635.0	629.1	5.93	107.089	
2,000.0	1,883.8	1,811.4	1,803.6	10.9	4.0	178.29	66.4	-133.5	692.3	686.0	6.24	110.970	
2,100.0	1,971.9	1,893.5	1,885.1	11.8	4.2	178.37	71.2	-141.7	749.5	742.9	6.55	114.489	
2,200.0	2,060.0	1,975.5	1,966.5	12.7	4.4	178.44	75.9	-150.0	806.7	799.9	6.85	117.694	
2,300.0	2,148.0	2,057.5	2,048.0	13.6	4.7	178.50	80.6	-158.2	863.9	856.8	7.16	120.626	
2,400.0	2,236.1	2,139.5	2,129.4	14.5	4.9	178.55	85.3	-166.5	921.2	913.7	7.47	123.318	
2,500.0	2,324.2	2,221.5	2,210.8	15.4	5.1	178.60	90.0	-174.8	978.4	970.6	7.78	125.800	
2,600.0	2,412.3	2,303.5	2,292.3	16.3	5.3	178.64	94.7	-183.0	1,035.6	1,027.6	8.08	128.094	
2,700.0	2,500.3	2,385.5	2,373.7	17.2	5.5	178.68	99.4	-191.3	1,092.9	1,084.5	8.39	130.221	
2,800.0	2,588.4	2,467.5	2,455.2	18.2	5.8	178.71	104.1	-199.5	1,150.1	1,141.4	8.70	132.199	
2,900.0	2,676.5	2,549.5	2,536.6	19.1	6.0	178.74	108.8	-207.8	1,207.3	1,198.3	9.01	134.043	
3,000.0	2,764.9	2,631.8	2,618.5	19.9	6.2	178.79	113.5	-216.1	1,264.0	1,254.7	9.37	134.962	
3,100.0	2,855.3	2,716.7	2,702.8	20.7	6.4	178.84	118.4	-224.6	1,316.9	1,307.1	9.77	134.777	

CC - Min centre to center distance or covergent 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 14D-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 14D-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 Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-120.44	-9.6	-16.3	18.9				
100.0	100.0	100.0	100.0	0.1	0.1	-120.44	-9.6	-16.3	18.9	18.6	0.26	73.759	
200.0	200.0	200.0	200.0	0.3	0.3	-120.44	-9.6	-16.3	18.9	18.3	0.60	31.196	
300.0	300.0	300.0	300.0	0.5	0.5	-120.44	-9.6	-16.3	18.9	17.9	0.95	19.782	
400.0	400.0	400.0	400.0	0.7	0.7	-120.44	-9.6	-16.3	18.9	17.6	1.30	14.482	CC, ES
500.0	500.0	498.9	498.8	0.8	0.8	124.63	-10.0	-18.8	22.7	21.0	1.65	13.730	SF
600.0	599.6	596.7	596.4	1.0	1.0	137.01	-11.5	-26.0	35.5	33.4	2.01	17.650	
700.0	698.8	694.2	693.3	1.3	1.2	141.91	-16.8	-35.0	55.2	52.8	2.38	23.158	
800.0	797.1	791.0	789.5	1.6	1.5	145.11	-23.6	-44.2	79.6	76.8	2.78	28.611	
900.0	894.3	886.6	884.4	2.1	1.7	148.11	-30.3	-53.3	108.4	105.2	3.20	33.910	
1,000.0	990.2	980.6	977.7	2.6	2.0	150.70	-36.9	-62.2	141.8	138.2	3.63	39.128	
1,100.0	1,084.4	1,072.9	1,069.3	3.2	2.2	152.88	-43.4	-70.9	179.8	175.8	4.06	44.318	
1,200.0	1,176.8	1,163.0	1,158.8	3.9	2.4	154.69	-49.7	-79.5	222.4	217.9	4.49	49.504	
1,300.0	1,267.1	1,250.9	1,246.1	4.7	2.7	156.18	-55.9	-87.8	269.5	264.5	4.93	54.694	
1,400.0	1,355.4	1,336.6	1,331.2	5.6	2.9	157.74	-61.9	-95.9	320.3	314.9	5.37	59.652	
1,500.0	1,443.4	1,422.1	1,416.1	6.5	3.1	159.12	-67.9	-104.0	371.6	365.8	5.82	63.843	
1,600.0	1,531.5	1,507.6	1,501.0	7.4	3.3	160.16	-73.9	-112.1	423.1	416.8	6.27	67.462	
1,700.0	1,619.6	1,593.1	1,585.9	8.3	3.6	160.98	-79.9	-120.2	474.7	467.9	6.72	70.616	
1,800.0	1,707.7	1,678.6	1,670.8	9.1	3.8	161.64	-85.9	-128.3	526.3	519.1	7.17	73.388	
1,900.0	1,795.7	1,764.1	1,755.7	10.0	4.0	162.18	-91.9	-136.4	577.9	570.3	7.62	75.842	
2,000.0	1,883.8	1,849.6	1,840.6	10.9	4.2	162.64	-97.9	-144.5	629.6	621.6	8.07	78.030	
2,100.0	1,971.9	1,935.1	1,925.6	11.8	4.5	163.02	-103.9	-152.7	681.4	672.8	8.52	79.992	
2,200.0	2,060.0	2,020.6	2,010.5	12.7	4.7	163.35	-109.9	-160.8	733.1	724.1	8.97	81.762	
2,300.0	2,148.0	2,106.1	2,095.4	13.6	4.9	163.64	-115.9	-168.9	784.9	775.4	9.41	83.366	
2,400.0	2,236.1	2,191.6	2,180.3	14.5	5.2	163.89	-121.9	-177.0	836.6	826.8	9.86	84.826	
2,500.0	2,324.2	2,277.1	2,265.2	15.4	5.4	164.11	-127.9	-185.1	888.4	878.1	10.31	86.161	
2,600.0	2,412.3	2,362.6	2,350.1	16.3	5.6	164.31	-134.0	-193.2	940.2	929.4	10.76	87.386	
2,700.0	2,500.3	2,448.1	2,435.0	17.2	5.9	164.49	-140.0	-201.3	992.0	980.8	11.21	88.514	
2,800.0	2,588.4	2,533.6	2,519.9	18.2	6.1	164.65	-146.0	-209.4	1,043.8	1,032.1	11.65	89.556	
2,900.0	2,676.5	2,619.2	2,604.8	19.1	6.3	164.79	-152.0	-217.5	1,095.6	1,083.5	12.10	90.522	
3,000.0	2,764.9	2,705.0	2,690.0	19.9	6.5	165.14	-158.0	-225.6	1,146.8	1,134.3	12.57	91.227	
3,100.0	2,855.3	2,793.0	2,777.5	20.7	6.8	165.60	-164.2	-234.0	1,194.3	1,181.2	13.06	91.462	
3,200.0	2,947.8	2,883.3	2,867.1	21.4	7.0	165.92	-170.5	-242.5	1,237.1	1,223.6	13.54	91.347	
3,300.0	3,042.2	2,975.7	2,958.9	21.9	7.3	166.14	-177.0	-251.3	1,275.4	1,261.4	14.03	90.931	
3,400.0	3,138.2	3,069.9	3,052.4	22.4	7.5	166.25	-183.6	-260.2	1,308.9	1,294.4	14.50	90.255	
3,500.0	3,235.5	3,165.5	3,147.4	22.8	7.8	166.28	-190.3	-269.3	1,337.6	1,322.6	14.97	89.354	

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

Company:	Caerus Oil & Gas (NAD 27)	**Local Co-ordinate Reference:**	Well Nolte 14D-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 14D-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 Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-129.82	-16.6	-20.0	26.0				
100.0	100.0	100.0	100.0	0.1	0.1	-129.82	-16.6	-20.0	26.0	25.7	0.26	101.550	
200.0	200.0	200.0	200.0	0.3	0.3	-129.82	-16.6	-20.0	26.0	25.4	0.61	42.968	
300.0	300.0	300.0	300.0	0.5	0.5	-129.82	-16.6	-20.0	26.0	25.0	0.95	27.248	
400.0	400.0	400.0	400.0	0.7	0.7	-129.82	-16.6	-20.0	26.0	24.7	1.30	19.950	CC, ES
500.0	500.0	500.0	500.0	0.8	0.8	112.52	-16.6	-20.0	26.9	25.2	1.66	16.235	
600.0	599.6	599.6	599.6	1.0	1.0	126.02	-16.6	-20.0	30.8	28.7	2.02	15.208	SF
700.0	698.8	698.8	698.8	1.3	1.2	141.14	-16.6	-20.0	39.9	37.5	2.39	16.698	
800.0	797.1	797.1	797.1	1.6	1.3	152.81	-16.6	-20.0	55.3	52.6	2.73	20.231	
900.0	894.3	894.3	894.3	2.1	1.5	160.54	-16.6	-20.0	76.9	73.8	3.06	25.121	
1,000.0	990.2	990.2	990.2	2.6	1.7	165.53	-16.6	-20.0	104.2	100.8	3.37	30.880	
1,100.0	1,084.4	1,084.4	1,084.4	3.2	1.8	168.82	-16.6	-20.0	136.8	133.1	3.67	37.240	
1,200.0	1,176.8	1,176.8	1,176.8	3.9	2.0	171.06	-16.6	-20.0	174.6	170.6	3.96	44.056	
1,300.0	1,267.1	1,267.1	1,267.1	4.7	2.2	172.64	-16.6	-20.0	217.3	213.0	4.24	51.255	
1,400.0	1,355.4	1,355.4	1,355.4	5.6	2.3	173.88	-16.6	-20.0	264.0	259.4	4.54	58.195	
1,500.0	1,443.4	1,443.4	1,443.4	6.5	2.5	174.81	-16.6	-20.0	311.2	306.3	4.86	64.084	
1,600.0	1,531.5	1,531.5	1,531.5	7.4	2.6	175.49	-16.6	-20.0	358.4	353.2	5.18	69.249	
1,700.0	1,619.6	1,619.6	1,619.6	8.3	2.8	176.02	-16.6	-20.0	405.6	400.1	5.50	73.815	
1,800.0	1,707.7	1,707.7	1,707.7	9.1	2.9	176.43	-16.6	-20.0	452.9	447.1	5.82	77.879	
1,900.0	1,795.7	1,795.7	1,795.7	10.0	3.1	176.77	-16.6	-20.0	500.2	494.1	6.14	81.519	
2,000.0	1,883.8	1,883.8	1,883.8	10.9	3.2	177.05	-16.6	-20.0	547.5	541.1	6.46	84.798	
2,100.0	1,971.9	1,971.9	1,971.9	11.8	3.4	177.28	-16.6	-20.0	594.8	588.0	6.78	87.768	
2,200.0	2,060.0	2,060.0	2,060.0	12.7	3.5	177.48	-16.6	-20.0	642.1	635.0	7.10	90.469	
2,300.0	2,148.0	2,148.0	2,148.0	13.6	3.7	177.66	-16.6	-20.0	689.5	682.1	7.42	92.937	
2,400.0	2,236.1	2,236.1	2,236.1	14.5	3.9	177.81	-16.6	-20.0	736.8	729.1	7.74	95.201	
2,500.0	2,324.2	2,324.2	2,324.2	15.4	4.0	177.94	-16.6	-20.0	784.1	776.1	8.06	97.284	
2,600.0	2,412.3	2,412.3	2,412.3	16.3	4.2	178.06	-16.6	-20.0	831.5	823.1	8.38	99.208	
2,700.0	2,500.3	2,500.3	2,500.3	17.2	4.3	178.16	-16.6	-20.0	878.8	870.1	8.70	100.991	
2,800.0	2,588.4	2,588.4	2,588.4	18.2	4.5	178.26	-16.6	-20.0	926.1	917.1	9.02	102.646	
2,900.0	2,676.5	2,676.5	2,676.5	19.1	4.6	178.34	-16.6	-20.0	973.5	964.1	9.34	104.188	
3,000.0	2,764.9	2,764.9	2,764.9	19.9	4.8	178.44	-16.6	-20.0	1,020.3	1,010.5	9.71	105.047	
3,100.0	2,855.3	2,855.3	2,855.3	20.7	4.9	178.54	-16.6	-20.0	1,062.9	1,052.8	10.12	105.009	
3,200.0	2,947.8	2,947.8	2,947.8	21.4	5.1	178.62	-16.6	-20.0	1,100.8	1,090.3	10.52	104.621	
3,300.0	3,042.2	3,042.2	3,042.2	21.9	5.3	178.68	-16.6	-20.0	1,133.8	1,122.9	10.91	103.925	
3,400.0	3,138.2	3,138.2	3,138.2	22.4	5.4	178.73	-16.6	-20.0	1,161.8	1,150.5	11.28	102.958	
3,500.0	3,235.5	3,235.5	3,235.5	22.8	5.6	178.77	-16.6	-20.0	1,184.7	1,173.1	11.64	101.747	
3,600.0	3,333.9	3,333.9	3,333.9	23.1	5.8	178.80	-16.6	-20.0	1,202.5	1,190.6	11.99	100.319	
3,700.0	3,433.1	3,433.1	3,433.1	23.3	5.9	178.82	-16.6	-20.0	1,215.2	1,202.9	12.31	98.693	
3,800.0	3,532.8	3,532.8	3,532.8	23.4	6.1	178.83	-16.6	-20.0	1,222.6	1,210.0	12.62	96.884	
3,900.0	3,632.8	3,632.8	3,632.8	23.5	6.3	-58.19	-16.6	-20.0	1,224.9	1,211.9	12.91	94.862	
4,000.0	3,732.8	3,732.8	3,732.8	23.5	6.5	-58.19	-16.6	-20.0	1,224.9	1,211.6	13.26	92.340	
4,100.0	3,832.8	3,832.8	3,832.8	23.6	6.6	-58.19	-16.6	-20.0	1,224.9	1,211.2	13.62	89.949	
4,200.0	3,932.8	3,932.8	3,932.8	23.6	6.8	-58.19	-16.6	-20.0	1,224.9	1,210.9	13.97	87.680	
4,300.0	4,032.8	4,032.8	4,032.8	23.7	7.0	-58.19	-16.6	-20.0	1,224.9	1,210.5	14.32	85.524	
4,400.0	4,132.8	4,132.8	4,132.8	23.8	7.2	-58.19	-16.6	-20.0	1,224.9	1,210.2	14.67	83.472	
4,500.0	4,232.8	4,232.8	4,232.8	23.8	7.3	-58.19	-16.6	-20.0	1,224.9	1,209.8	15.03	81.517	
4,600.0	4,332.8	4,332.8	4,332.8	23.9	7.5	-58.19	-16.6	-20.0	1,224.9	1,209.5	15.38	79.652	
4,700.0	4,432.8	4,432.8	4,432.8	23.9	7.7	-58.19	-16.6	-20.0	1,224.9	1,209.1	15.73	77.872	
4,800.0	4,532.8	4,532.8	4,532.8	24.0	7.9	-58.19	-16.6	-20.0	1,224.9	1,208.8	16.08	76.169	
4,900.0	4,632.8	4,632.8	4,632.8	24.1	8.0	-58.19	-16.6	-20.0	1,224.9	1,208.4	16.43	74.540	
5,000.0	4,732.8	4,732.8	4,732.8	24.1	8.2	-58.19	-16.6	-20.0	1,224.9	1,208.1	16.78	72.980	
5,100.0	4,832.8	4,832.8	4,832.8	24.2	8.4	-58.19	-16.6	-20.0	1,224.9	1,207.7	17.13	71.483	

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

Company:	Caerus Oil & Gas (NAD 27)	**Local Co-ordinate Reference:**	Well Nolte 14D-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 14D-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

Survey Program: 0-MWD

Offset Site Error: 0.0 ft

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,200.0	4,932.8	4,932.8	4,932.8	24.2	8.6	-58.19	-16.6	-20.0	1,224.9	1,207.4	17.49	70.048	
5,300.0	5,032.8	5,032.8	5,032.8	24.3	8.7	-58.19	-16.6	-20.0	1,224.9	1,207.0	17.84	68.669	
5,400.0	5,132.8	5,132.8	5,132.8	24.4	8.9	-58.19	-16.6	-20.0	1,224.9	1,206.7	18.19	67.344	
5,500.0	5,232.8	5,232.8	5,232.8	24.4	9.1	-58.19	-16.6	-20.0	1,224.9	1,206.3	18.54	66.069	
5,600.0	5,332.8	5,332.8	5,332.8	24.5	9.3	-58.19	-16.6	-20.0	1,224.9	1,206.0	18.89	64.842	
5,700.0	5,432.8	5,432.8	5,432.8	24.6	9.4	-58.19	-16.6	-20.0	1,224.9	1,205.6	19.24	63.659	
5,800.0	5,532.8	5,532.8	5,532.8	24.7	9.6	-58.19	-16.6	-20.0	1,224.9	1,205.3	19.59	62.520	
5,900.0	5,632.8	5,632.8	5,632.8	24.7	9.8	-58.19	-16.6	-20.0	1,224.9	1,204.9	19.94	61.420	
6,000.0	5,732.8	5,732.8	5,732.8	24.8	10.0	-58.19	-16.6	-20.0	1,224.9	1,204.6	20.29	60.359	
6,097.2	5,830.8	5,830.0	5,830.0	24.9	10.1	-58.19	-16.6	-20.0	1,224.9	1,204.2	20.63	59.362	

Company:	Caerus Oil & Gas (NAD 27)	**Local Co-ordinate Reference:**	Well Nolte 14D-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 14D-13	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	DD	**Database:**	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to WELL @ 5117.8ft (Original Well Elev)
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000 °
Coordinates are relative to: Nolte 14D-13
Coordinate System is US State Plane 1927 (Exact solution), Colorado Central 502
Grid Convergence at Surface is: -1.62°