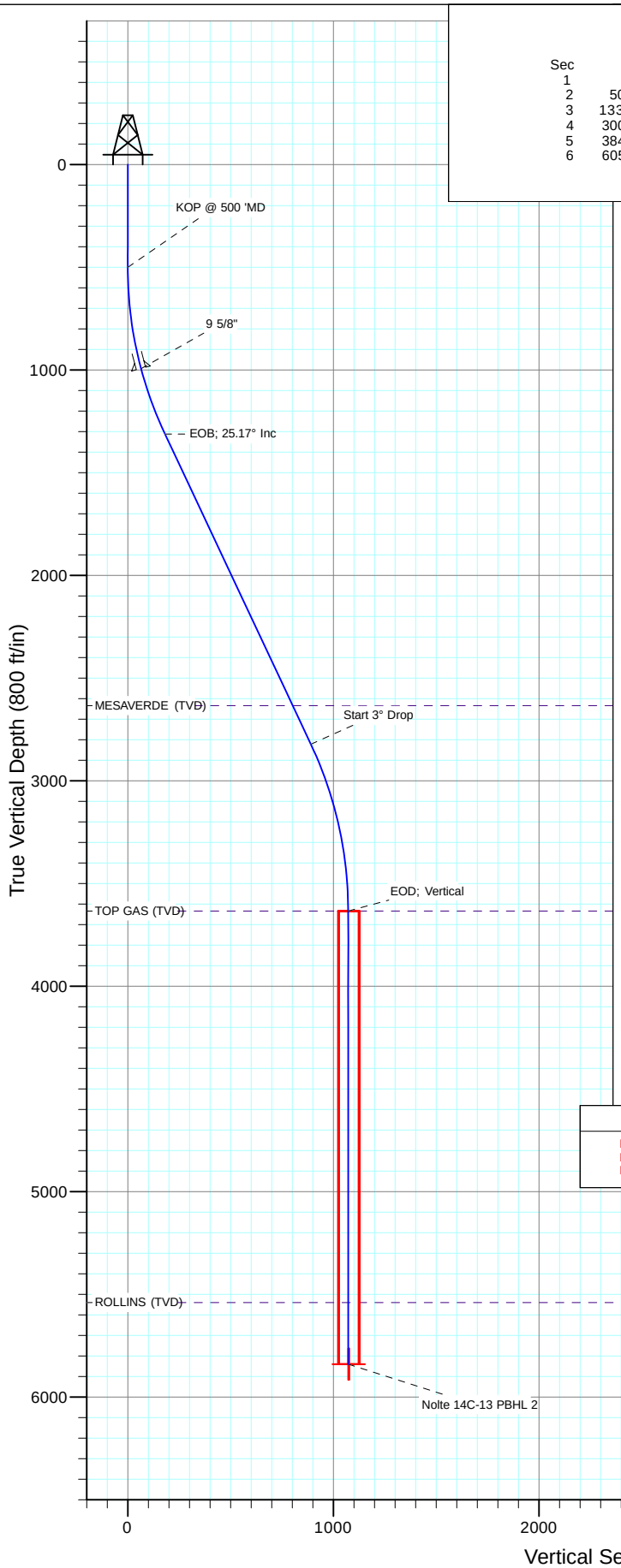
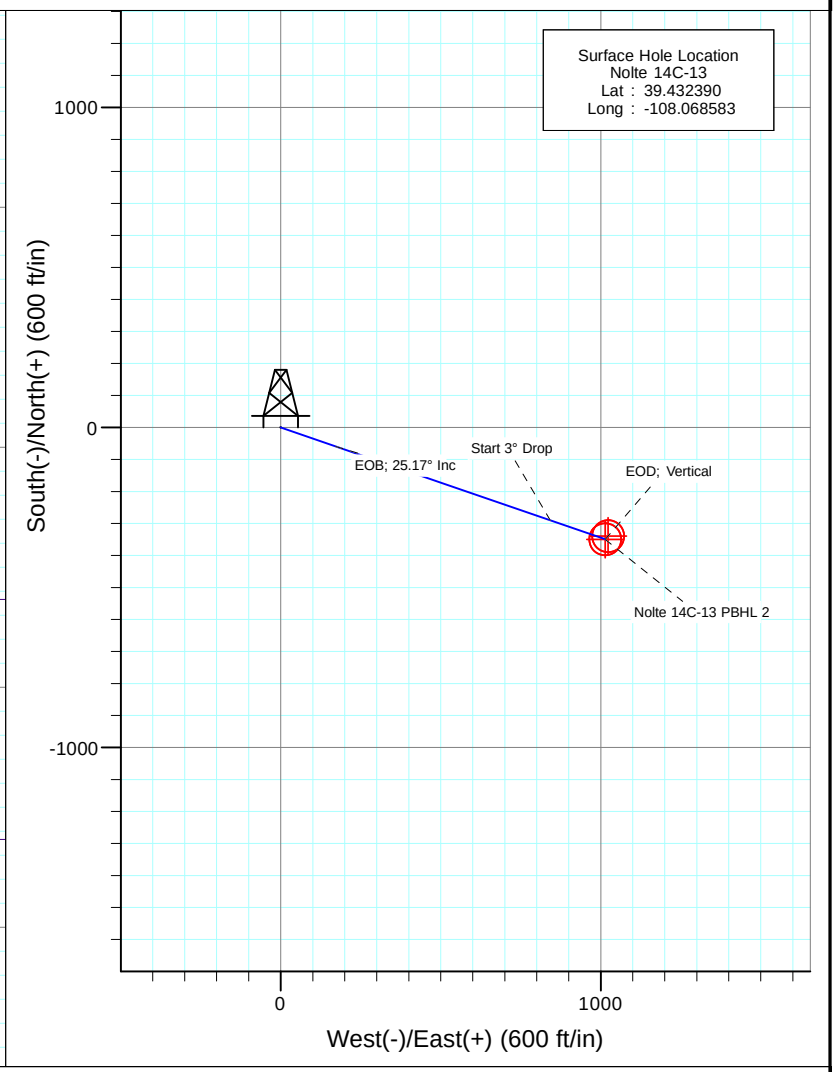
Project: Garfield County, CO
Site: S14-T7S-R96W
Well: Nolte 14C-13
Wellbore: DD
Design: Plan #3

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	500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.0	
3	1339.1	25.17	109.02	1312.3	-59.1	171.5	3.00	109.02	181.4	
4	3007.9	25.17	109.02	2822.7	-290.4	842.6	0.00	0.00	891.1	
5	3847.0	0.00	0.00	3635.0	-349.5	1014.0	3.00	180.00	1072.5	
6	6052.0	0.00	0.00	5840.0	-349.5	1014.0	0.00	0.00	1072.5	Nolte 14C-13 PBHL 2





DESIGN TARGET DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Nolte 14C-13 PBHL	-339.7	1023.2	592254.86	1275583.34	39.431458	-108.064960
Nolte 14C-13 PBHL 2	-349.5	1014.0	592245.36	1275573.89	39.431431	-108.064993

Plan #3
Nolte 14C-13
WELL @ 5117.8ft (Original Well Elev)
Ground Elevation @ 5090.7
NAD 1927 (NADCON CONUS)
Well Nolte 14C-13, True North

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
2635.0	2800.5	MESAVERDE (TVD)
3635.0	3847.0	TOP GAS (TVD)
5540.0	5752.0	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 14C-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 14C-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 14C-13					
Well Position	**+N/-S**	0.0 ft	**Northing:**	592,623.92 ft	**Latitude:**	39.432392
	+E/-W	0.0 ft	**Easting:**	1,274,570.16 ft	**Longitude:**	-108.068583
Position Uncertainty		0.0 ft	**Wellhead Elevation:**	ft	**Ground Level:**	5,090.7 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	108.37	

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	
500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,339.3	25.18	109.04	1,312.5	-59.2	171.5	3.00	3.00	0.00	109.04	
3,007.8	25.18	109.04	2,822.5	-290.8	842.5	0.00	0.00	0.00	0.00	
3,847.0	0.00	0.00	3,635.0	-350.0	1,014.0	3.00	-3.00	0.00	180.00	
6,052.0	0.00	0.00	5,840.0	-350.0	1,014.0	0.00	0.00	0.00	0.00	Nolte 14C-13 PBHL 2

Database:	USA EDM 5000 Multi Users DB	**Local Co-ordinate Reference:**	Well Nolte 14C-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 14C-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	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	KOP @ 500 'MD
600.0	3.00	109.04	600.0	-0.9	2.5	2.6	3.00	3.00	
700.0	6.00	109.04	699.6	-3.4	9.9	10.5	3.00	3.00	
800.0	9.00	109.04	798.8	-7.7	22.2	23.5	3.00	3.00	
900.0	12.00	109.04	897.1	-13.6	39.5	41.7	3.00	3.00	
1,000.0	15.00	109.04	994.3	-21.2	61.5	65.1	3.00	3.00	9 5/8"
1,100.0	18.00	109.04	1,090.2	-30.5	88.4	93.5	3.00	3.00	
1,200.0	21.00	109.04	1,184.4	-41.4	119.9	126.8	3.00	3.00	
1,300.0	24.00	109.04	1,276.8	-53.9	156.1	165.1	3.00	3.00	
1,339.1	25.17	109.04	1,312.4	-59.2	171.5	181.4	3.00	3.00	EOB; 25.17° Inc
1,339.3	25.18	109.04	1,312.5	-59.2	171.5	181.4	3.00	3.00	
1,400.0	25.18	109.04	1,367.5	-67.6	195.9	207.3	0.00	0.00	
1,500.0	25.18	109.04	1,458.0	-81.5	236.2	249.8	0.00	0.00	
1,600.0	25.18	109.04	1,548.5	-95.4	276.4	292.4	0.00	0.00	
1,700.0	25.18	109.04	1,639.0	-109.3	316.6	334.9	0.00	0.00	
1,800.0	25.18	109.04	1,729.5	-123.2	356.8	377.4	0.00	0.00	
1,900.0	25.18	109.04	1,820.0	-137.0	397.0	420.0	0.00	0.00	
2,000.0	25.18	109.04	1,910.5	-150.9	437.2	462.5	0.00	0.00	
2,100.0	25.18	109.04	2,001.0	-164.8	477.5	505.1	0.00	0.00	
2,200.0	25.18	109.04	2,091.5	-178.7	517.7	547.6	0.00	0.00	
2,300.0	25.18	109.04	2,182.0	-192.6	557.9	590.1	0.00	0.00	
2,400.0	25.18	109.04	2,272.5	-206.5	598.1	632.7	0.00	0.00	
2,500.0	25.18	109.04	2,363.0	-220.3	638.3	675.2	0.00	0.00	
2,600.0	25.18	109.04	2,453.5	-234.2	678.5	717.8	0.00	0.00	
2,700.0	25.18	109.04	2,544.0	-248.1	718.7	760.3	0.00	0.00	
2,800.0	25.18	109.04	2,634.5	-262.0	759.0	802.8	0.00	0.00	
2,800.6	25.18	109.04	2,635.0	-262.1	759.2	803.1	0.00	0.00	MESAVERDE (TVD)
2,900.0	25.18	109.04	2,725.0	-275.9	799.2	845.4	0.00	0.00	
3,007.8	25.18	109.04	2,822.5	-290.8	842.5	891.2	0.00	0.00	
3,007.9	25.18	109.04	2,822.6	-290.8	842.6	891.3	0.00	0.00	Start 3° Drop
3,100.0	22.41	109.04	2,906.9	-303.0	877.7	928.4	3.00	-3.00	
3,200.0	19.41	109.04	3,000.3	-314.6	911.4	964.1	3.00	-3.00	
3,300.0	16.41	109.04	3,095.4	-324.6	940.5	994.9	3.00	-3.00	
3,400.0	13.41	109.04	3,192.0	-333.0	964.8	1,020.6	3.00	-3.00	
3,500.0	10.41	109.04	3,289.9	-339.8	984.3	1,041.2	3.00	-3.00	
3,600.0	7.41	109.04	3,388.7	-344.8	998.9	1,056.7	3.00	-3.00	
3,700.0	4.41	109.04	3,488.1	-348.2	1,008.7	1,067.0	3.00	-3.00	
3,800.0	1.41	109.04	3,588.0	-349.8	1,013.5	1,072.1	3.00	-3.00	
3,847.0	0.00	0.00	3,635.0	-350.0	1,014.0	1,072.7	3.00	-3.00	EOD; Vertical - TOP GAS (TVD)
3,900.0	0.00	0.00	3,688.0	-350.0	1,014.0	1,072.7	0.00	0.00	
4,000.0	0.00	0.00	3,788.0	-350.0	1,014.0	1,072.7	0.00	0.00	
4,100.0	0.00	0.00	3,888.0	-350.0	1,014.0	1,072.7	0.00	0.00	
4,200.0	0.00	0.00	3,988.0	-350.0	1,014.0	1,072.7	0.00	0.00	
4,300.0	0.00	0.00	4,088.0	-350.0	1,014.0	1,072.7	0.00	0.00	
4,400.0	0.00	0.00	4,188.0	-350.0	1,014.0	1,072.7	0.00	0.00	
4,500.0	0.00	0.00	4,288.0	-350.0	1,014.0	1,072.7	0.00	0.00	
4,600.0	0.00	0.00	4,388.0	-350.0	1,014.0	1,072.7	0.00	0.00	

Database:	USA EDM 5000 Multi Users DB	**Local Co-ordinate Reference:**	Well Nolte 14C-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 14C-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
4,700.0	0.00	0.00	4,488.0	-350.0	1,014.0	1,072.7	0.00	0.00	
4,800.0	0.00	0.00	4,588.0	-350.0	1,014.0	1,072.7	0.00	0.00	
4,900.0	0.00	0.00	4,688.0	-350.0	1,014.0	1,072.7	0.00	0.00	
5,000.0	0.00	0.00	4,788.0	-350.0	1,014.0	1,072.7	0.00	0.00	
5,100.0	0.00	0.00	4,888.0	-350.0	1,014.0	1,072.7	0.00	0.00	
5,200.0	0.00	0.00	4,988.0	-350.0	1,014.0	1,072.7	0.00	0.00	
5,300.0	0.00	0.00	5,088.0	-350.0	1,014.0	1,072.7	0.00	0.00	
5,400.0	0.00	0.00	5,188.0	-350.0	1,014.0	1,072.7	0.00	0.00	
5,500.0	0.00	0.00	5,288.0	-350.0	1,014.0	1,072.7	0.00	0.00	
5,600.0	0.00	0.00	5,388.0	-350.0	1,014.0	1,072.7	0.00	0.00	
5,700.0	0.00	0.00	5,488.0	-350.0	1,014.0	1,072.7	0.00	0.00	
5,752.0	0.00	0.00	5,540.0	-350.0	1,014.0	1,072.7	0.00	0.00	ROLLINS (TVD)
5,800.0	0.00	0.00	5,588.0	-350.0	1,014.0	1,072.7	0.00	0.00	
5,900.0	0.00	0.00	5,688.0	-350.0	1,014.0	1,072.7	0.00	0.00	
6,000.0	0.00	0.00	5,788.0	-350.0	1,014.0	1,072.7	0.00	0.00	
6,052.0	0.00	0.00	5,839.9	-350.0	1,014.0	1,072.7	0.00	0.00	PBHL @ 6,052' MD
6,052.0	0.00	0.00	5,840.0	-350.0	1,014.0	1,072.7	0.00	0.00	

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 14C-13 PBHL	0.00	0.00	5,840.0	-340.3	1,023.2	592,254.86	1,275,583.34	39.431458	-108.064960
- plan misses target center by 13.4ft at 6052.0ft MD (5840.0 TVD, -350.0 N, 1014.0 E)									
- Circle (radius 50.0)									
Nolte 14C-13 PBHL 2	0.00	0.00	5,840.0	-350.0	1,014.0	592,245.36	1,275,573.89	39.431431	-108.064993
- plan hits target center									
- Circle (radius 50.0)									

1,000.0	994.3	9 5/8"		9.625	12.250

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
2,800.6	2,635.0	MESAVERDE (TVD)		0.00	
3,847.0	3,635.0	TOP GAS (TVD)		0.00	
5,752.0	5,540.0	ROLLINS (TVD)		0.00	

Database:	USA EDM 5000 Multi Users DB	**Local Co-ordinate Reference:**	Well Nolte 14C-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 14C-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
500.0	500.0	0.0	0.0	KOP @ 500 'MD
1,339.1	1,312.4	-59.2	171.5	EOB; 25.17° Inc
3,007.9	2,822.6	-290.8	842.6	Start 3° Drop
3,847.0	3,635.0	-350.0	1,014.0	EOD; Vertical
6,052.0	5,839.9	-350.0	1,014.0	PBHL @ 6,052' MD

Caerus Oil & Gas (NAD 27)

Garfield County, CO
S14-T7S-R96W
Nolte 14C-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 14C-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 14C-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** 9/9/2013

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	6,052.0	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	16.5	15.5	17.301	CC, ES
Nolte 11A-24 - DD - Plan #3	500.0	498.8	21.9	20.2	12.996	SF
Nolte 11B-24 - DD - Plan #3	200.0	200.0	24.5	23.9	40.535	CC, ES
Nolte 11B-24 - DD - Plan #3	500.0	496.1	40.0	38.2	22.304	SF
Nolte 11C-24 - DD - Plan #3	244.5	234.8	32.5	31.7	42.749	CC, ES
Nolte 11C-24 - DD - Plan #3	500.0	487.1	41.8	40.1	24.455	SF
Nolte 13A-13 - DD - Plan #3	200.0	200.0	33.0	32.4	54.636	CC, ES
Nolte 13A-13 - DD - Plan #3	500.0	492.9	55.1	53.4	31.395	SF
Nolte 13B-13 - DD - Plan #3	233.6	233.6	25.5	24.7	35.322	CC, ES
Nolte 13B-13 - DD - Plan #3	400.0	398.0	30.5	29.2	23.336	SF
Nolte 13C-13 - DD - Plan #3	200.0	199.8	31.5	30.9	52.243	CC, ES
Nolte 13C-13 - DD - Plan #3	500.0	492.9	53.9	52.1	30.613	SF
Nolte 13D-13 - DD - Plan #3	300.0	300.0	23.5	22.6	24.683	CC, ES
Nolte 13D-13 - DD - Plan #3	500.0	497.2	32.9	31.2	19.677	SF
Nolte 14A-13 - DD - Plan #3	400.0	400.0	15.5	14.2	11.916	CC, ES
Nolte 14A-13 - DD - Plan #3	500.0	499.3	17.5	15.8	10.572	SF
Nolte 14B-13 - DD - Plan #3	559.0	559.0	7.4	5.6	3.990	CC, ES
Nolte 14B-13 - DD - Plan #3	600.0	599.9	7.6	5.6	3.809	SF
Nolte 14D-13 - DD - Plan #3	400.0	400.0	8.5	7.2	6.515	CC
Nolte 14D-13 - DD - Plan #3	400.0	400.0	8.5	7.2	6.514	ES
Nolte 14D-13 - DD - Plan #3	500.0	499.9	9.2	7.5	5.548	SF
Nolte 43A-14 - DD - Plan #3	300.0	300.0	18.3	17.4	19.247	CC, ES
Nolte 43A-14 - DD - Plan #3	400.0	399.0	20.9	19.6	16.016	SF
Nolte 43B-14 - DD - Plan #3	333.4	333.4	12.4	11.3	11.547	CC, ES
Nolte 43B-14 - DD - Plan #3	400.0	399.7	13.0	11.7	9.977	SF
Nolte 43C-14 - DD - Plan #3	400.0	400.0	9.8	8.5	7.523	CC, ES
Nolte 43C-14 - DD - Plan #3	500.0	499.5	11.8	10.1	7.130	SF
Nolte 44A-14 - DD - Plan #3	436.5	436.5	12.9	11.5	9.055	CC
Nolte 44A-14 - DD - Plan #3	500.0	499.9	13.1	11.4	7.917	ES, SF
Nolte 44B-14 - DD - Plan #3	500.0	500.0	19.2	17.5	11.604	CC, ES
Nolte 44B-14 - DD - Plan #3	600.0	599.3	22.5	20.5	11.226	SF
Nolte 44C-14 - DD - Plan #3	400.0	400.0	26.4	25.1	20.235	CC, ES
Nolte 44C-14 - DD - Plan #3	500.0	498.7	28.6	27.0	17.323	SF
Nolte SWD 1-14 - DD - Plan #3	500.0	500.0	33.9	32.3	20.530	CC, ES
Nolte SWD 1-14 - DD - Plan #3	700.0	699.6	39.5	37.2	16.710	SF

Company:	Caerus Oil & Gas (NAD 27)	**Local Co-ordinate Reference:**	Well Nolte 14C-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 14C-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	-153.22	-14.7	-7.4	16.5				
100.0	100.0	100.0	100.0	0.1	0.1	-153.22	-14.7	-7.4	16.5	16.2	0.25	64.702	
200.0	200.0	200.0	200.0	0.3	0.3	-153.22	-14.7	-7.4	16.5	15.9	0.60	27.302	
300.0	300.0	300.0	300.0	0.5	0.5	-153.22	-14.7	-7.4	16.5	15.5	0.95	17.301	CC, ES
400.0	400.0	399.7	399.6	0.7	0.7	-161.44	-16.5	-5.5	17.4	16.1	1.30	13.351	
500.0	500.0	498.8	498.4	0.8	0.9	179.80	-21.8	0.1	21.9	20.2	1.68	12.996	SF
600.0	600.0	597.2	596.0	1.0	1.1	57.69	-30.6	9.3	30.8	28.7	2.04	15.069	
700.0	699.6	694.9	692.1	1.2	1.5	52.95	-42.7	22.1	41.8	39.4	2.44	17.159	
800.0	798.8	792.0	786.6	1.5	1.9	51.94	-58.1	38.3	54.3	51.4	2.89	18.788	
900.0	897.1	888.3	879.1	1.8	2.4	52.64	-76.5	57.8	68.0	64.6	3.44	19.792	
1,000.0	994.3	983.9	969.4	2.2	3.0	54.12	-98.0	80.5	82.9	78.8	4.11	20.164	
1,100.0	1,090.2	1,078.7	1,057.3	2.7	3.6	55.95	-122.4	106.2	99.2	94.3	4.96	20.016	
1,200.0	1,184.4	1,172.6	1,142.6	3.3	4.4	57.88	-149.4	134.8	116.8	110.8	5.99	19.516	
1,300.0	1,276.8	1,265.7	1,225.1	4.0	5.2	59.79	-179.1	166.1	135.8	128.6	7.21	18.831	
1,400.0	1,367.5	1,357.9	1,304.7	4.8	6.1	61.64	-211.1	199.9	156.7	148.1	8.59	18.242	
1,500.0	1,458.0	1,451.2	1,382.9	5.6	7.1	62.46	-246.0	236.7	180.8	170.8	9.96	18.151	
1,600.0	1,548.5	1,548.1	1,463.7	6.4	8.1	62.93	-282.7	275.5	205.6	194.2	11.36	18.098	
1,700.0	1,639.0	1,644.9	1,544.5	7.2	9.1	63.30	-319.4	314.3	230.4	217.6	12.77	18.039	
1,800.0	1,729.5	1,741.8	1,625.3	8.0	10.1	63.60	-356.2	353.1	255.2	241.0	14.20	17.979	
1,900.0	1,820.0	1,838.7	1,706.1	8.8	11.1	63.85	-392.9	391.9	280.1	264.5	15.63	17.923	
2,000.0	1,910.5	1,935.5	1,786.9	9.6	12.1	64.06	-429.6	430.6	304.9	287.9	17.06	17.871	
2,100.0	2,001.0	2,032.4	1,867.7	10.4	13.1	64.23	-466.4	469.4	329.8	311.3	18.50	17.823	
2,200.0	2,091.5	2,129.2	1,948.6	11.2	14.1	64.39	-503.1	508.2	354.6	334.7	19.94	17.780	
2,300.0	2,182.0	2,226.1	2,029.4	12.0	15.1	64.52	-539.8	547.0	379.5	358.1	21.39	17.740	
2,400.0	2,272.5	2,323.0	2,110.2	12.8	16.1	64.63	-576.6	585.8	404.3	381.5	22.84	17.704	
2,500.0	2,363.0	2,419.8	2,191.0	13.6	17.1	64.73	-613.3	624.5	429.2	404.9	24.29	17.670	
2,600.0	2,453.5	2,516.7	2,271.8	14.5	18.2	64.82	-650.0	663.3	454.0	428.3	25.74	17.640	
2,700.0	2,544.0	2,613.5	2,352.6	15.3	19.2	64.91	-686.7	702.1	478.9	451.7	27.19	17.612	
2,800.0	2,634.5	2,710.4	2,433.4	16.1	20.2	64.98	-723.5	740.9	503.7	475.1	28.64	17.587	
2,900.0	2,725.0	2,807.3	2,514.2	16.9	21.2	65.05	-760.2	779.7	528.6	498.5	30.10	17.563	
3,000.0	2,815.5	2,914.6	2,604.1	17.7	22.3	65.16	-800.5	822.2	553.1	521.4	31.63	17.487	
3,100.0	2,906.9	3,038.6	2,711.3	18.5	23.4	66.03	-843.3	867.4	574.7	541.4	33.33	17.245	
3,200.0	3,000.3	3,164.4	2,824.0	19.1	24.4	66.82	-881.7	907.9	593.8	559.0	34.84	17.044	
3,300.0	3,095.4	3,291.7	2,941.6	19.6	25.3	67.49	-915.3	943.4	610.3	574.2	36.16	16.879	
3,400.0	3,192.0	3,420.5	3,063.5	20.1	26.0	68.05	-943.7	973.4	624.1	586.8	37.26	16.749	
3,500.0	3,289.9	3,550.4	3,189.1	20.4	26.5	68.51	-966.5	997.5	634.9	596.8	38.15	16.643	
3,600.0	3,388.7	3,681.2	3,317.5	20.7	26.9	68.86	-983.6	1,015.5	642.9	604.1	38.84	16.554	
3,700.0	3,488.1	3,812.6	3,447.9	20.9	27.2	69.12	-994.6	1,027.1	647.9	608.6	39.31	16.482	
3,800.0	3,588.0	3,944.3	3,579.4	21.0	27.3	69.30	-999.4	1,032.2	649.9	610.3	39.58	16.421	
3,900.0	3,688.0	4,052.9	3,688.0	21.0	27.4	178.38	-999.6	1,032.4	649.8	610.1	39.71	16.364	
4,000.0	3,788.0	4,152.9	3,788.0	21.1	27.4	178.38	-999.6	1,032.4	649.8	610.0	39.83	16.314	
4,100.0	3,888.0	4,252.9	3,888.0	21.1	27.5	178.38	-999.6	1,032.4	649.8	609.9	39.96	16.263	
4,200.0	3,988.0	4,352.9	3,988.0	21.2	27.5	178.38	-999.6	1,032.4	649.8	609.7	40.09	16.211	
4,300.0	4,088.0	4,452.9	4,088.0	21.2	27.5	178.38	-999.6	1,032.4	649.8	609.6	40.22	16.158	
4,400.0	4,188.0	4,552.9	4,188.0	21.3	27.6	178.38	-999.6	1,032.4	649.8	609.5	40.35	16.105	
4,500.0	4,288.0	4,652.9	4,288.0	21.4	27.6	178.38	-999.6	1,032.4	649.8	609.3	40.49	16.051	
4,600.0	4,388.0	4,752.9	4,388.0	21.4	27.7	178.38	-999.6	1,032.4	649.8	609.2	40.62	15.996	
4,700.0	4,488.0	4,852.9	4,488.0	21.5	27.8	178.38	-999.6	1,032.4	649.8	609.1	40.76	15.941	
4,800.0	4,588.0	4,952.9	4,588.0	21.6	27.8	178.38	-999.6	1,032.4	649.8	608.9	40.91	15.885	
4,900.0	4,688.0	5,052.9	4,688.0	21.6	27.9	178.38	-999.6	1,032.4	649.8	608.8	41.05	15.829	
5,000.0	4,788.0	5,152.9	4,788.0	21.7	27.9	178.38	-999.6	1,032.4	649.8	608.6	41.20	15.772	

Company:	Caerus Oil & Gas (NAD 27)	**Local Co-ordinate Reference:**	Well Nolte 14C-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 14C-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	4,888.0	5,252.9	4,888.0	21.8	28.0	178.38	-999.6	1,032.4	649.8	608.5	41.35	15.715	
5,200.0	4,988.0	5,352.9	4,988.0	21.8	28.0	178.38	-999.6	1,032.4	649.8	608.3	41.50	15.657	
5,300.0	5,088.0	5,452.9	5,088.0	21.9	28.1	178.38	-999.6	1,032.4	649.8	608.2	41.66	15.598	
5,400.0	5,188.0	5,552.9	5,188.0	22.0	28.1	178.38	-999.6	1,032.4	649.8	608.0	41.82	15.540	
5,500.0	5,288.0	5,652.9	5,288.0	22.1	28.2	178.38	-999.6	1,032.4	649.8	607.9	41.98	15.480	
5,600.0	5,388.0	5,752.9	5,388.0	22.1	28.3	178.38	-999.6	1,032.4	649.8	607.7	42.14	15.421	
5,700.0	5,488.0	5,852.9	5,488.0	22.2	28.3	178.38	-999.6	1,032.4	649.8	607.5	42.30	15.361	
5,800.0	5,588.0	5,952.9	5,588.0	22.3	28.4	178.38	-999.6	1,032.4	649.8	607.4	42.47	15.300	
5,900.0	5,688.0	6,052.9	5,688.0	22.4	28.5	178.38	-999.6	1,032.4	649.8	607.2	42.64	15.240	
6,000.0	5,788.0	6,152.9	5,788.0	22.5	28.5	178.38	-999.6	1,032.4	649.8	607.0	42.81	15.179	
6,011.1	5,799.0	6,163.9	5,799.0	22.5	28.5	178.38	-999.6	1,032.4	649.8	607.0	42.83	15.172	
6,052.0	5,840.0	6,174.9	5,810.0	22.5	28.5	178.38	-999.6	1,032.4	650.5	607.6	42.87	15.173	

Company:	Caerus Oil & Gas (NAD 27)	**Local Co-ordinate Reference:**	Well Nolte 14C-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 14C-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	-152.97	-21.8	-11.1	24.5				
100.0	100.0	100.0	100.0	0.1	0.1	-152.97	-21.8	-11.1	24.5	24.2	0.25	96.024	
200.0	200.0	200.0	200.0	0.3	0.3	-152.97	-21.8	-11.1	24.5	23.9	0.60	40.535	CC, ES
300.0	300.0	299.4	299.4	0.5	0.5	-158.26	-23.8	-9.5	25.6	24.7	0.96	26.802	
400.0	400.0	398.3	397.9	0.7	0.7	-171.15	-29.8	-4.6	30.2	28.9	1.34	22.526	
500.0	500.0	496.1	494.9	0.8	1.0	175.18	-39.6	3.3	40.0	38.2	1.80	22.304	SF
600.0	600.0	592.7	590.0	1.0	1.3	57.76	-53.0	14.3	54.4	52.3	2.07	26.340	
700.0	699.6	688.4	683.1	1.2	1.8	54.63	-70.0	28.1	71.0	68.5	2.46	28.834	
800.0	798.8	783.1	774.1	1.5	2.3	54.00	-90.3	44.7	89.1	86.2	2.91	30.568	
900.0	897.1	876.7	862.7	1.8	2.8	54.60	-113.8	63.8	108.7	105.2	3.46	31.410	
1,000.0	994.3	969.2	948.6	2.2	3.5	55.82	-140.3	85.4	129.8	125.6	4.13	31.409	
1,100.0	1,090.2	1,060.5	1,031.6	2.7	4.2	57.31	-169.6	109.2	152.3	147.4	4.95	30.750	
1,200.0	1,184.4	1,150.5	1,111.8	3.3	5.0	58.89	-201.5	135.2	176.4	170.5	5.95	29.677	
1,300.0	1,276.8	1,239.3	1,188.8	4.0	5.8	60.47	-235.7	163.1	202.2	195.0	7.12	28.410	
1,400.0	1,367.5	1,326.9	1,262.6	4.8	6.7	62.24	-272.2	192.8	229.9	221.4	8.43	27.264	
1,500.0	1,458.0	1,412.7	1,332.9	5.6	7.7	63.39	-310.5	224.0	261.2	251.4	9.77	26.740	
1,600.0	1,548.5	1,500.0	1,401.9	6.4	8.7	63.84	-351.8	257.7	295.9	284.8	11.10	26.663	
1,700.0	1,639.0	1,583.3	1,465.7	7.2	9.7	63.82	-393.3	291.4	333.6	321.2	12.37	26.962	
1,800.0	1,729.5	1,675.7	1,536.2	8.0	10.8	63.74	-439.6	329.2	371.8	358.1	13.71	27.127	
1,900.0	1,820.0	1,768.1	1,606.7	8.8	11.9	63.68	-486.0	366.9	410.0	395.0	15.05	27.252	
2,000.0	1,910.5	1,860.5	1,677.2	9.6	13.1	63.63	-532.3	404.7	448.2	431.9	16.39	27.350	
2,100.0	2,001.0	1,952.9	1,747.7	10.4	14.2	63.59	-578.6	442.4	486.5	468.7	17.74	27.427	
2,200.0	2,091.5	2,045.3	1,818.2	11.2	15.3	63.55	-625.0	480.1	524.7	505.6	19.09	27.490	
2,300.0	2,182.0	2,137.7	1,888.6	12.0	16.5	63.52	-671.3	517.9	562.9	542.4	20.44	27.541	
2,400.0	2,272.5	2,230.1	1,959.1	12.8	17.6	63.49	-717.7	555.6	601.1	579.3	21.79	27.584	
2,500.0	2,363.0	2,322.6	2,029.6	13.6	18.7	63.47	-764.0	593.4	639.3	616.2	23.15	27.620	
2,600.0	2,453.5	2,415.0	2,100.1	14.5	19.9	63.44	-810.3	631.1	677.5	653.0	24.50	27.651	
2,700.0	2,544.0	2,507.4	2,170.6	15.3	21.0	63.43	-856.7	668.9	715.7	689.9	25.86	27.678	
2,800.0	2,634.5	2,599.8	2,241.1	16.1	22.1	63.41	-903.0	706.6	753.9	726.7	27.22	27.701	
2,900.0	2,725.0	2,692.2	2,311.5	16.9	23.3	63.39	-949.4	744.3	792.2	763.6	28.58	27.721	
3,000.0	2,815.5	2,803.9	2,397.2	17.7	24.6	63.41	-1,004.9	789.6	830.0	799.9	30.07	27.603	
3,100.0	2,906.9	2,950.2	2,514.9	18.5	26.2	64.47	-1,072.3	844.5	864.1	832.1	31.99	27.009	
3,200.0	3,000.3	3,101.7	2,643.4	19.1	27.6	65.45	-1,134.5	895.1	894.3	860.6	33.76	26.490	
3,300.0	3,095.4	3,258.0	2,782.1	19.6	28.9	66.28	-1,190.2	940.5	920.5	885.2	35.31	26.065	
3,400.0	3,192.0	3,418.7	2,930.4	20.1	29.9	66.98	-1,238.1	979.5	942.2	905.6	36.65	25.707	
3,500.0	3,289.9	3,583.0	3,086.8	20.4	30.8	67.55	-1,276.9	1,011.1	959.2	921.5	37.75	25.413	
3,600.0	3,388.7	3,750.1	3,249.7	20.7	31.4	68.01	-1,305.5	1,034.4	971.3	932.7	38.59	25.172	
3,700.0	3,488.1	3,919.0	3,417.1	20.9	31.7	68.36	-1,323.1	1,048.8	978.3	939.2	39.18	24.972	
3,800.0	3,588.0	4,088.7	3,586.6	21.0	31.9	68.61	-1,329.2	1,053.7	980.2	940.7	39.51	24.806	
3,880.0	3,668.0	4,170.2	3,668.0	21.0	31.9	68.67	-1,329.2	1,053.7	979.7	940.1	39.64	24.717	
3,900.0	3,688.0	4,190.1	3,688.0	21.0	31.9	177.68	-1,329.2	1,053.7	980.0	940.3	39.64	24.719	
4,000.0	3,788.0	4,290.1	3,788.0	21.1	32.0	177.68	-1,329.2	1,053.7	980.0	940.2	39.77	24.642	
4,100.0	3,888.0	4,390.1	3,888.0	21.1	32.0	177.68	-1,329.2	1,053.7	980.0	940.1	39.90	24.563	
4,200.0	3,988.0	4,490.1	3,988.0	21.2	32.0	177.68	-1,329.2	1,053.7	980.0	939.9	40.03	24.483	
4,300.0	4,088.0	4,590.1	4,088.0	21.2	32.1	177.68	-1,329.2	1,053.7	980.0	939.8	40.16	24.402	
4,400.0	4,188.0	4,690.1	4,188.0	21.3	32.1	177.68	-1,329.2	1,053.7	980.0	939.7	40.29	24.320	
4,500.0	4,288.0	4,790.1	4,288.0	21.4	32.2	177.68	-1,329.2	1,053.7	980.0	939.5	40.43	24.237	
4,600.0	4,388.0	4,890.1	4,388.0	21.4	32.2	177.68	-1,329.2	1,053.7	980.0	939.4	40.57	24.154	
4,700.0	4,488.0	4,990.1	4,488.0	21.5	32.3	177.68	-1,329.2	1,053.7	980.0	939.2	40.72	24.069	
4,800.0	4,588.0	5,090.1	4,588.0	21.6	32.3	177.68	-1,329.2	1,053.7	980.0	939.1	40.86	23.983	
4,900.0	4,688.0	5,190.1	4,688.0	21.6	32.4	177.68	-1,329.2	1,053.7	980.0	939.0	41.01	23.897	
5,000.0	4,788.0	5,290.1	4,788.0	21.7	32.4	177.68	-1,329.2	1,053.7	980.0	938.8	41.16	23.809	

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 14C-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 14C-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
5,100.0	4,888.0	5,390.1	4,888.0	21.8	32.5	177.68	-1,329.2	1,053.7	980.0	938.7	41.31	23.721	
5,200.0	4,988.0	5,490.1	4,988.0	21.8	32.5	177.68	-1,329.2	1,053.7	980.0	938.5	41.47	23.633	
5,300.0	5,088.0	5,590.1	5,088.0	21.9	32.6	177.68	-1,329.2	1,053.7	980.0	938.3	41.62	23.543	
5,400.0	5,188.0	5,690.1	5,188.0	22.0	32.6	177.68	-1,329.2	1,053.7	980.0	938.2	41.78	23.453	
5,500.0	5,288.0	5,790.1	5,288.0	22.1	32.7	177.68	-1,329.2	1,053.7	980.0	938.0	41.95	23.363	
5,600.0	5,388.0	5,890.1	5,388.0	22.1	32.7	177.68	-1,329.2	1,053.7	980.0	937.9	42.11	23.272	
5,700.0	5,488.0	5,990.1	5,488.0	22.2	32.8	177.68	-1,329.2	1,053.7	980.0	937.7	42.28	23.180	
5,800.0	5,588.0	6,090.1	5,588.0	22.3	32.8	177.68	-1,329.2	1,053.7	980.0	937.5	42.45	23.088	
5,900.0	5,688.0	6,190.1	5,688.0	22.4	32.9	177.68	-1,329.2	1,053.7	980.0	937.3	42.62	22.995	
6,000.0	5,788.0	6,290.1	5,788.0	22.5	32.9	177.68	-1,329.2	1,053.7	980.0	937.2	42.79	22.902	
6,052.0	5,840.0	6,292.2	5,790.0	22.5	32.9	177.68	-1,329.2	1,053.7	981.2	938.4	42.84	22.907	

Company:	Caerus Oil & Gas (NAD 27)	**Local Co-ordinate Reference:**	Well Nolte 14C-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 14C-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	-152.83	-28.9	-14.8	33.9				
100.0	100.0	90.3	90.3	0.1	0.1	-152.83	-28.9	-14.8	32.5	32.2	0.26	125.853	
200.0	200.0	190.3	190.3	0.3	0.3	-152.83	-28.9	-14.8	32.5	31.9	0.60	53.747	
244.5	244.5	234.8	234.8	0.4	0.4	-152.83	-28.9	-14.8	32.5	31.7	0.76	42.749	CC, ES
300.0	300.0	290.0	290.0	0.5	0.5	-153.47	-29.2	-14.6	32.7	31.7	0.95	34.296	
400.0	400.0	388.9	388.8	0.7	0.7	-160.03	-33.1	-12.0	35.2	33.9	1.31	26.872	
500.0	500.0	487.1	486.5	0.8	0.9	-170.80	-41.1	-6.7	41.8	40.1	1.71	24.455	SF
600.0	600.0	584.4	582.7	1.0	1.2	71.74	-53.2	1.4	52.9	50.8	2.06	25.627	
700.0	699.6	680.8	677.1	1.2	1.6	68.09	-69.1	12.1	67.0	64.5	2.48	27.010	
800.0	798.8	776.2	769.5	1.5	2.0	67.10	-88.8	25.2	83.5	80.5	2.97	28.136	
900.0	897.1	870.5	859.6	1.8	2.5	67.51	-111.9	40.7	102.2	98.6	3.56	28.686	
1,000.0	994.3	963.6	947.1	2.2	3.1	68.60	-138.4	58.4	123.1	118.8	4.30	28.642	
1,100.0	1,090.2	1,055.4	1,031.7	2.7	3.8	69.98	-168.0	78.2	146.2	141.0	5.19	28.153	
1,200.0	1,184.4	1,145.9	1,113.4	3.3	4.5	71.42	-200.4	99.8	171.6	165.3	6.26	27.407	
1,300.0	1,276.8	1,235.0	1,191.9	4.0	5.3	72.82	-235.4	123.3	199.2	191.7	7.50	26.560	
1,400.0	1,367.5	1,322.7	1,267.2	4.8	6.1	74.44	-272.8	148.3	229.3	220.4	8.87	25.838	
1,500.0	1,458.0	1,408.7	1,338.9	5.6	7.0	75.41	-312.2	174.6	262.6	252.4	10.27	25.574	
1,600.0	1,548.5	1,492.8	1,406.9	6.4	8.0	75.62	-353.3	202.1	299.0	287.4	11.65	25.671	
1,700.0	1,639.0	1,574.8	1,471.1	7.2	8.9	75.33	-395.8	230.5	338.4	325.4	13.00	26.023	
1,800.0	1,729.5	1,654.3	1,531.2	8.0	9.9	74.72	-439.1	259.5	380.6	366.3	14.32	26.574	
1,900.0	1,820.0	1,731.4	1,587.2	8.8	10.9	73.91	-483.0	288.8	425.6	410.0	15.60	27.283	
2,000.0	1,910.5	1,800.0	1,635.4	9.6	11.9	73.07	-523.7	316.0	473.4	456.6	16.80	28.183	
2,100.0	2,001.0	1,877.4	1,687.5	10.4	13.0	72.03	-571.2	347.8	523.7	505.7	18.03	29.049	
2,200.0	2,091.5	1,946.2	1,731.9	11.2	14.0	71.04	-615.0	377.1	576.7	557.5	19.18	30.064	
2,300.0	2,182.0	2,012.3	1,772.6	12.0	15.0	70.07	-658.2	405.9	632.1	611.8	20.29	31.156	
2,400.0	2,272.5	2,075.6	1,810.0	12.8	16.0	69.13	-700.6	434.3	689.9	668.6	21.36	32.300	
2,500.0	2,363.0	2,136.2	1,844.2	13.6	17.0	68.23	-742.2	462.1	750.0	727.7	22.40	33.491	
2,600.0	2,453.5	2,200.0	1,878.4	14.5	18.0	67.28	-787.0	492.1	812.4	788.9	23.42	34.694	
2,700.0	2,544.0	2,249.3	1,903.7	15.3	18.8	66.56	-822.2	515.7	876.7	852.3	24.36	35.991	
2,800.0	2,634.5	2,334.4	1,946.1	16.1	20.2	65.40	-883.5	556.6	942.2	916.8	25.41	37.087	
2,900.0	2,725.0	2,470.1	2,019.6	16.9	22.4	64.14	-978.3	620.0	1,004.7	978.0	26.71	37.617	
3,000.0	2,815.5	2,620.6	2,110.4	17.7	24.6	63.40	-1,078.0	686.7	1,062.2	1,034.0	28.20	37.670	
3,100.0	2,906.9	2,785.1	2,220.0	18.5	26.9	64.46	-1,179.9	754.8	1,114.7	1,084.4	30.32	36.761	
3,200.0	3,000.3	2,962.9	2,349.9	19.1	29.1	65.44	-1,280.7	822.2	1,162.7	1,130.3	32.36	35.929	
3,300.0	3,095.4	3,154.4	2,501.9	19.6	31.2	66.23	-1,377.6	887.0	1,205.2	1,171.0	34.23	35.212	
3,400.0	3,192.0	3,359.9	2,676.9	20.1	33.1	66.86	-1,466.9	946.7	1,241.6	1,205.7	35.88	34.602	
3,500.0	3,289.9	3,578.3	2,874.4	20.4	34.7	67.36	-1,544.1	998.4	1,271.0	1,233.7	37.28	34.090	
3,600.0	3,388.7	3,807.9	3,092.0	20.7	35.9	67.75	-1,604.5	1,038.8	1,292.6	1,254.2	38.39	33.672	
3,700.0	3,488.1	4,045.5	3,324.8	20.9	36.7	68.04	-1,643.8	1,065.0	1,305.9	1,266.7	39.16	33.343	
3,800.0	3,588.0	4,287.4	3,565.8	21.0	36.9	68.26	-1,658.7	1,075.0	1,310.3	1,270.7	39.61	33.084	
3,900.0	3,688.0	4,399.8	3,678.3	21.0	37.0	177.33	-1,658.8	1,075.0	1,310.2	1,270.4	39.75	32.963	
4,000.0	3,788.0	4,499.8	3,778.3	21.1	37.0	177.33	-1,658.8	1,075.0	1,310.2	1,270.3	39.88	32.857	
4,100.0	3,888.0	4,599.8	3,878.3	21.1	37.0	177.33	-1,658.8	1,075.0	1,310.2	1,270.2	40.01	32.750	
4,200.0	3,988.0	4,699.8	3,978.3	21.2	37.1	177.33	-1,658.8	1,075.0	1,310.2	1,270.0	40.14	32.641	
4,300.0	4,088.0	4,799.8	4,078.3	21.2	37.1	177.33	-1,658.8	1,075.0	1,310.2	1,269.9	40.27	32.531	
4,400.0	4,188.0	4,899.8	4,178.3	21.3	37.2	177.33	-1,658.8	1,075.0	1,310.2	1,269.8	40.41	32.420	
4,500.0	4,288.0	4,999.8	4,278.3	21.4	37.2	177.33	-1,658.8	1,075.0	1,310.2	1,269.6	40.55	32.308	
4,600.0	4,388.0	5,099.8	4,378.3	21.4	37.2	177.33	-1,658.8	1,075.0	1,310.2	1,269.5	40.70	32.194	
4,700.0	4,488.0	5,199.8	4,478.3	21.5	37.3	177.33	-1,658.8	1,075.0	1,310.2	1,269.3	40.84	32.079	
4,800.0	4,588.0	5,299.8	4,578.3	21.6	37.3	177.33	-1,658.8	1,075.0	1,310.2	1,269.2	40.99	31.963	
4,900.0	4,688.0	5,399.8	4,678.3	21.6	37.4	177.33	-1,658.8	1,075.0	1,310.2	1,269.0	41.14	31.846	
5,000.0	4,788.0	5,499.8	4,778.3	21.7	37.4	177.33	-1,658.8	1,075.0	1,310.2	1,268.9	41.29	31.728	

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 14C-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 14C-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	4,888.0	5,599.8	4,878.3	21.8	37.5	177.33	-1,658.8	1,075.0	1,310.2	1,268.7	41.45	31.609	
5,200.0	4,988.0	5,699.8	4,978.3	21.8	37.5	177.33	-1,658.8	1,075.0	1,310.2	1,268.6	41.61	31.489	
5,300.0	5,088.0	5,799.8	5,078.3	21.9	37.6	177.33	-1,658.8	1,075.0	1,310.2	1,268.4	41.77	31.369	
5,400.0	5,188.0	5,899.8	5,178.3	22.0	37.6	177.33	-1,658.8	1,075.0	1,310.2	1,268.2	41.93	31.247	
5,500.0	5,288.0	5,999.8	5,278.3	22.1	37.7	177.33	-1,658.8	1,075.0	1,310.2	1,268.1	42.09	31.125	
5,600.0	5,388.0	6,099.8	5,378.3	22.1	37.7	177.33	-1,658.8	1,075.0	1,310.2	1,267.9	42.26	31.002	
5,700.0	5,488.0	6,199.8	5,478.3	22.2	37.8	177.33	-1,658.8	1,075.0	1,310.2	1,267.7	42.43	30.879	
5,800.0	5,588.0	6,299.8	5,578.3	22.3	37.8	177.33	-1,658.8	1,075.0	1,310.2	1,267.6	42.60	30.755	
5,820.1	5,608.1	6,319.9	5,598.4	22.3	37.8	177.33	-1,658.8	1,075.0	1,310.2	1,267.5	42.64	30.729	
5,900.0	5,688.0	6,341.5	5,620.0	22.4	37.8	177.33	-1,658.8	1,075.0	1,311.5	1,268.7	42.72	30.698	
6,000.0	5,788.0	6,341.5	5,620.0	22.5	37.8	177.33	-1,658.8	1,075.0	1,319.7	1,276.9	42.81	30.829	
6,052.0	5,840.0	6,341.5	5,620.0	22.5	37.8	177.33	-1,658.8	1,075.0	1,326.9	1,284.1	42.85	30.966	

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	**Local Co-ordinate Reference:**	Well Nolte 14C-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 14C-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	10.26	32.5	5.9	33.0				
100.0	100.0	100.0	100.0	0.1	0.1	10.26	32.5	5.9	33.0	32.7	0.25	129.479	
200.0	200.0	200.0	200.0	0.3	0.3	10.26	32.5	5.9	33.0	32.4	0.60	54.636	CC, ES
300.0	300.0	298.3	298.3	0.5	0.5	11.75	34.6	7.2	35.4	34.4	0.96	37.063	
400.0	400.0	396.1	395.8	0.7	0.7	15.20	41.0	11.1	42.7	41.4	1.33	32.097	
500.0	500.0	492.9	491.8	0.8	1.0	18.87	51.6	17.6	55.1	53.4	1.76	31.395	SF
600.0	600.0	588.3	585.6	1.0	1.3	-88.68	66.0	26.5	72.4	70.4	2.00	36.239	
700.0	699.6	681.8	676.7	1.2	1.7	-89.97	84.0	37.5	94.5	92.1	2.38	39.643	
800.0	798.8	773.0	764.4	1.5	2.2	-92.23	105.1	50.6	121.3	118.4	2.83	42.795	
900.0	897.1	861.5	848.3	1.8	2.7	-94.59	129.1	65.3	153.0	149.6	3.38	45.256	
1,000.0	994.3	946.9	928.0	2.2	3.3	-96.68	155.3	81.4	189.6	185.6	4.04	46.960	
1,100.0	1,090.2	1,029.0	1,003.2	2.7	3.9	-98.36	183.3	98.7	231.1	226.3	4.81	48.059	
1,200.0	1,184.4	1,107.7	1,073.9	3.3	4.6	-99.63	212.7	116.8	277.2	271.5	5.68	48.756	
1,300.0	1,276.8	1,182.7	1,139.9	4.0	5.2	-100.48	243.1	135.4	327.7	321.0	6.66	49.166	
1,400.0	1,367.5	1,254.3	1,201.6	4.8	5.9	-102.00	274.1	154.5	382.1	374.4	7.74	49.355	
1,500.0	1,458.0	1,323.3	1,259.7	5.6	6.6	-103.52	305.8	174.0	439.6	430.7	8.86	49.609	
1,600.0	1,548.5	1,389.8	1,314.3	6.4	7.3	-104.50	338.1	193.8	499.5	489.5	9.98	50.054	
1,700.0	1,639.0	1,453.7	1,365.6	7.2	8.1	-105.09	370.5	213.8	561.7	550.6	11.10	50.603	
1,800.0	1,729.5	1,515.1	1,413.6	8.0	8.8	-105.42	403.1	233.9	626.0	613.8	12.21	51.262	
1,900.0	1,820.0	1,573.9	1,458.5	8.8	9.5	-105.57	435.6	253.8	692.2	678.8	13.32	51.967	
2,000.0	1,910.5	1,630.3	1,500.3	9.6	10.2	-105.58	467.7	273.6	760.1	745.7	14.41	52.740	
2,100.0	2,001.0	1,697.3	1,549.0	10.4	11.0	-105.50	506.9	297.7	829.3	813.7	15.57	53.278	
2,200.0	2,091.5	1,769.4	1,601.4	11.2	12.0	-105.43	549.1	323.7	898.6	881.8	16.75	53.645	
2,300.0	2,182.0	1,841.5	1,653.8	12.0	12.9	-105.37	591.3	349.6	967.9	949.9	17.94	53.956	
2,400.0	2,272.5	1,913.7	1,706.2	12.8	13.8	-105.31	633.5	375.6	1,037.1	1,018.0	19.13	54.222	
2,500.0	2,363.0	1,985.8	1,758.6	13.6	14.7	-105.26	675.7	401.5	1,106.4	1,086.1	20.32	54.452	
2,600.0	2,453.5	2,057.9	1,811.0	14.5	15.6	-105.22	717.9	427.5	1,175.7	1,154.2	21.51	54.653	
2,700.0	2,544.0	2,130.0	1,863.4	15.3	16.6	-105.18	760.1	453.5	1,245.0	1,222.3	22.71	54.829	
2,800.0	2,634.5	2,202.1	1,915.8	16.1	17.5	-105.15	802.3	479.4	1,314.3	1,290.4	23.90	54.986	

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 14C-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 14C-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	4.90	25.4	2.2	25.5				
100.0	100.0	100.0	100.0	0.1	0.1	4.90	25.4	2.2	25.5	25.2	0.25	100.013	
200.0	200.0	200.0	200.0	0.3	0.3	4.90	25.4	2.2	25.5	24.9	0.60	42.185	
233.6	233.6	233.6	233.6	0.4	0.4	4.90	25.4	2.2	25.5	24.7	0.72	35.322	CC, ES
300.0	300.0	299.4	299.4	0.5	0.5	5.66	25.9	2.6	26.0	25.1	0.95	27.325	
400.0	400.0	398.0	397.9	0.7	0.7	10.77	29.9	5.7	30.5	29.2	1.31	23.336	SF
500.0	500.0	495.9	495.2	0.8	0.9	17.39	37.9	11.9	40.0	38.3	1.69	23.583	
600.0	600.0	592.5	590.7	1.0	1.2	-88.42	49.6	20.9	54.5	52.5	2.01	27.091	
700.0	699.6	687.6	683.8	1.2	1.6	-89.20	64.8	32.8	73.7	71.3	2.41	30.632	
800.0	798.8	780.7	773.9	1.5	2.0	-91.36	83.3	47.1	97.5	94.6	2.87	33.939	
900.0	897.1	871.5	860.6	1.8	2.5	-93.74	104.6	63.6	126.0	122.6	3.44	36.595	
1,000.0	994.3	959.6	943.4	2.2	3.1	-95.88	128.4	82.0	159.4	155.2	4.14	38.523	
1,100.0	1,090.2	1,044.7	1,022.0	2.7	3.7	-97.62	154.2	102.0	197.3	192.4	4.95	39.851	
1,200.0	1,184.4	1,126.7	1,096.3	3.3	4.4	-98.94	181.6	123.3	239.9	234.0	5.88	40.760	
1,300.0	1,276.8	1,205.5	1,166.1	4.0	5.0	-99.86	210.4	145.6	286.7	279.8	6.92	41.398	
1,400.0	1,367.5	1,281.1	1,231.8	4.8	5.7	-101.33	240.1	168.6	337.4	329.3	8.07	41.808	
1,500.0	1,458.0	1,354.3	1,293.8	5.6	6.5	-102.66	270.7	192.4	391.1	381.8	9.26	42.244	
1,600.0	1,548.5	1,425.0	1,352.3	6.4	7.2	-103.41	302.1	216.7	447.3	436.9	10.44	42.837	
1,700.0	1,639.0	1,498.4	1,411.6	7.2	8.0	-103.80	336.4	243.3	505.7	494.0	11.65	43.399	
1,800.0	1,729.5	1,579.3	1,476.6	8.0	8.9	-104.10	374.4	272.7	564.4	551.5	12.91	43.716	
1,900.0	1,820.0	1,660.2	1,541.6	8.8	9.8	-104.35	412.4	302.2	623.2	609.0	14.18	43.957	
2,000.0	1,910.5	1,741.1	1,606.6	9.6	10.7	-104.55	450.4	331.7	682.0	666.5	15.45	44.145	
2,100.0	2,001.0	1,821.9	1,671.6	10.4	11.6	-104.72	488.5	361.2	740.8	724.1	16.72	44.294	
2,200.0	2,091.5	1,902.8	1,736.6	11.2	12.5	-104.87	526.5	390.7	799.6	781.6	18.00	44.415	
2,300.0	2,182.0	1,983.7	1,801.6	12.0	13.4	-104.99	564.5	420.1	858.4	839.1	19.28	44.513	
2,400.0	2,272.5	2,064.6	1,866.6	12.8	14.3	-105.10	602.5	449.6	917.2	896.6	20.57	44.595	
2,500.0	2,363.0	2,145.5	1,931.7	13.6	15.2	-105.20	640.6	479.1	976.0	954.1	21.85	44.664	
2,600.0	2,453.5	2,226.3	1,996.7	14.5	16.1	-105.28	678.6	508.6	1,034.8	1,011.6	23.14	44.723	
2,700.0	2,544.0	2,307.2	2,061.7	15.3	17.0	-105.36	716.6	538.0	1,093.6	1,069.1	24.42	44.774	
2,800.0	2,634.5	2,388.1	2,126.7	16.1	17.9	-105.43	754.6	567.5	1,152.4	1,126.7	25.71	44.818	
2,900.0	2,725.0	2,469.0	2,191.7	16.9	18.8	-105.49	792.6	597.0	1,211.2	1,184.2	27.00	44.856	
3,000.0	2,815.5	2,549.8	2,256.7	17.7	19.7	-105.55	830.7	626.5	1,270.0	1,241.7	28.29	44.889	
3,100.0	2,906.9	2,631.1	2,322.0	18.5	20.6	-107.39	868.9	656.1	1,328.3	1,298.4	29.89	44.437	

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 14C-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 14C-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	27.91	27.8	14.7	31.5				
100.0	100.0	99.8	99.8	0.1	0.1	27.91	27.8	14.7	31.5	31.2	0.25	124.008	
200.0	200.0	199.8	199.8	0.3	0.3	27.91	27.8	14.7	31.5	30.9	0.60	52.243	CC, ES
300.0	300.0	298.2	298.1	0.5	0.5	29.23	29.6	16.6	34.0	33.0	0.95	35.556	
400.0	400.0	396.0	395.7	0.7	0.7	32.26	34.8	22.0	41.4	40.0	1.33	31.048	
500.0	500.0	492.9	491.7	0.8	1.0	35.42	43.4	30.9	53.9	52.1	1.76	30.613	SF
600.0	600.0	588.4	585.7	1.0	1.3	-72.56	55.2	43.1	70.6	68.6	2.00	35.383	
700.0	699.6	682.4	677.3	1.2	1.7	-74.21	69.9	58.4	90.6	88.3	2.38	38.138	
800.0	798.8	774.6	766.0	1.5	2.2	-76.87	87.4	76.5	114.2	111.4	2.83	40.390	
900.0	897.1	864.7	851.3	1.8	2.8	-79.70	107.4	97.1	141.5	138.2	3.39	41.798	
1,000.0	994.3	952.4	933.1	2.2	3.4	-82.34	129.4	120.0	172.8	168.7	4.08	42.368	
1,100.0	1,090.2	1,037.6	1,011.0	2.7	4.0	-84.62	153.4	144.8	207.9	203.0	4.91	42.339	
1,200.0	1,184.4	1,120.2	1,085.0	3.3	4.7	-86.50	178.8	171.2	246.9	241.0	5.88	42.003	
1,300.0	1,276.8	1,206.0	1,160.5	4.0	5.5	-88.29	207.2	200.6	289.1	282.1	7.01	41.252	
1,400.0	1,367.5	1,294.8	1,238.5	4.8	6.3	-90.96	236.6	231.1	332.3	324.0	8.29	40.056	
1,500.0	1,458.0	1,383.5	1,316.4	5.6	7.0	-93.52	266.1	261.6	376.1	366.5	9.64	39.031	
1,600.0	1,548.5	1,472.2	1,394.3	6.4	7.8	-95.56	295.5	292.1	420.4	409.5	10.99	38.267	
1,700.0	1,639.0	1,561.0	1,472.3	7.2	8.6	-97.21	325.0	322.6	465.1	452.8	12.34	37.684	
1,800.0	1,729.5	1,649.7	1,550.2	8.0	9.4	-98.58	354.4	353.2	510.1	496.4	13.70	37.230	
1,900.0	1,820.0	1,738.4	1,628.1	8.8	10.2	-99.73	383.9	383.7	555.2	540.2	15.06	36.869	
2,000.0	1,910.5	1,827.1	1,706.0	9.6	11.0	-100.71	413.3	414.2	600.5	584.1	16.42	36.578	
2,100.0	2,001.0	1,915.8	1,783.9	10.4	11.8	-101.55	442.8	444.7	646.0	628.2	17.78	36.338	
2,200.0	2,091.5	2,004.5	1,861.9	11.2	12.6	-102.28	472.2	475.2	691.5	672.3	19.13	36.139	
2,300.0	2,182.0	2,093.2	1,939.8	12.0	13.4	-102.92	501.7	505.7	737.1	716.6	20.49	35.971	
2,400.0	2,272.5	2,182.0	2,017.7	12.8	14.2	-103.49	531.1	536.3	782.7	760.9	21.85	35.828	
2,500.0	2,363.0	2,270.7	2,095.6	13.6	15.0	-103.99	560.6	566.8	828.5	805.2	23.20	35.704	
2,600.0	2,453.5	2,359.4	2,173.5	14.5	15.8	-104.45	590.0	597.3	874.2	849.7	24.56	35.597	
2,700.0	2,544.0	2,448.1	2,251.5	15.3	16.6	-104.85	619.5	627.8	920.0	894.1	25.91	35.504	
2,800.0	2,634.5	2,536.8	2,329.4	16.1	17.4	-105.22	648.9	658.3	965.8	938.6	27.27	35.421	
2,900.0	2,725.0	2,625.5	2,407.3	16.9	18.2	-105.56	678.4	688.9	1,011.7	983.1	28.62	35.348	
3,000.0	2,815.5	2,714.2	2,485.2	17.7	19.0	-105.86	707.8	719.4	1,057.6	1,027.6	29.97	35.283	
3,100.0	2,906.9	2,803.3	2,563.5	18.5	19.8	-107.37	737.4	750.0	1,102.9	1,071.5	31.49	35.023	
3,200.0	3,000.3	2,893.1	2,642.3	19.1	20.6	-108.63	767.2	780.9	1,146.9	1,114.0	32.91	34.852	
3,300.0	3,095.4	2,983.3	2,721.6	19.6	21.4	-109.57	797.2	811.9	1,189.4	1,155.2	34.21	34.770	
3,400.0	3,192.0	3,094.2	2,819.3	20.1	22.3	-110.09	833.6	849.7	1,230.1	1,194.6	35.49	34.661	
3,500.0	3,289.9	3,259.0	2,968.9	20.4	23.5	-110.14	881.3	899.1	1,265.4	1,228.6	36.80	34.389	
3,600.0	3,388.7	3,433.1	3,132.9	20.7	24.5	-110.09	921.8	941.1	1,293.4	1,255.6	37.86	34.162	
3,700.0	3,488.1	3,615.1	3,309.3	20.9	25.3	-109.98	952.9	973.3	1,313.7	1,275.1	38.65	33.993	
3,800.0	3,588.0	3,803.0	3,495.0	21.0	25.8	-109.80	972.5	993.7	1,325.8	1,286.7	39.12	33.888	
3,900.0	3,688.0	3,994.1	3,685.7	21.0	26.0	-0.57	979.5	1,000.8	1,329.6	1,290.3	39.33	33.809	
4,000.0	3,788.0	4,096.1	3,787.8	21.1	26.0	-0.57	979.5	1,000.8	1,329.6	1,290.1	39.45	33.703	
4,100.0	3,888.0	4,196.1	3,887.8	21.1	26.1	-0.57	979.5	1,000.8	1,329.6	1,290.0	39.58	33.596	
4,200.0	3,988.0	4,296.1	3,987.8	21.2	26.1	-0.57	979.5	1,000.8	1,329.6	1,289.9	39.70	33.487	
4,300.0	4,088.0	4,396.1	4,087.8	21.2	26.2	-0.57	979.5	1,000.8	1,329.6	1,289.7	39.84	33.377	
4,400.0	4,188.0	4,496.1	4,187.8	21.3	26.2	-0.57	979.5	1,000.8	1,329.6	1,289.6	39.97	33.266	
4,500.0	4,288.0	4,596.1	4,287.8	21.4	26.3	-0.57	979.5	1,000.8	1,329.6	1,289.5	40.10	33.153	
4,600.0	4,388.0	4,696.1	4,387.8	21.4	26.3	-0.57	979.5	1,000.8	1,329.6	1,289.3	40.24	33.039	
4,700.0	4,488.0	4,796.1	4,487.8	21.5	26.4	-0.57	979.5	1,000.8	1,329.6	1,289.2	40.38	32.923	
4,800.0	4,588.0	4,896.1	4,587.8	21.6	26.4	-0.57	979.5	1,000.8	1,329.6	1,289.1	40.53	32.806	
4,900.0	4,688.0	4,996.1	4,687.8	21.6	26.5	-0.57	979.5	1,000.8	1,329.6	1,288.9	40.67	32.688	
5,000.0	4,788.0	5,096.1	4,787.8	21.7	26.5	-0.57	979.5	1,000.8	1,329.6	1,288.8	40.82	32.569	
5,100.0	4,888.0	5,196.1	4,887.8	21.8	26.6	-0.57	979.5	1,000.8	1,329.6	1,288.6	40.97	32.449	

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 14C-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 14C-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
5,200.0	4,988.0	5,296.1	4,987.8	21.8	26.7	-0.57	979.5	1,000.8	1,329.6	1,288.5	41.13	32.328	
5,300.0	5,088.0	5,396.1	5,087.8	21.9	26.7	-0.57	979.5	1,000.8	1,329.6	1,288.3	41.28	32.206	
5,400.0	5,188.0	5,496.1	5,187.8	22.0	26.8	-0.57	979.5	1,000.8	1,329.6	1,288.1	41.44	32.083	
5,500.0	5,288.0	5,596.1	5,287.8	22.1	26.8	-0.57	979.5	1,000.8	1,329.6	1,288.0	41.60	31.959	
5,600.0	5,388.0	5,696.1	5,387.8	22.1	26.9	-0.57	979.5	1,000.8	1,329.6	1,287.8	41.77	31.834	
5,700.0	5,488.0	5,796.1	5,487.8	22.2	27.0	-0.57	979.5	1,000.8	1,329.6	1,287.6	41.93	31.709	
5,800.0	5,588.0	5,896.1	5,587.8	22.3	27.0	-0.57	979.5	1,000.8	1,329.6	1,287.5	42.10	31.583	
5,900.0	5,688.0	5,996.1	5,687.8	22.4	27.1	-0.57	979.5	1,000.8	1,329.6	1,287.3	42.27	31.456	
6,000.0	5,788.0	6,096.1	5,787.8	22.5	27.2	-0.57	979.5	1,000.8	1,329.6	1,287.1	42.44	31.329	
6,052.0	5,840.0	6,148.2	5,839.8	22.5	27.2	-0.57	979.5	1,000.8	1,329.6	1,287.0	42.53	31.262	

Company:	Caerus Oil & Gas (NAD 27)	**Local Co-ordinate Reference:**	Well Nolte 14C-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 14C-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	28.03	20.7	11.0	23.5				
100.0	100.0	100.0	100.0	0.1	0.1	28.03	20.7	11.0	23.5	23.3	0.25	92.493	
200.0	200.0	200.0	200.0	0.3	0.3	28.03	20.7	11.0	23.5	22.9	0.60	38.967	
300.0	300.0	300.0	300.0	0.5	0.5	28.03	20.7	11.0	23.5	22.6	0.95	24.683	CC, ES
400.0	400.0	398.9	398.8	0.7	0.7	30.84	22.1	13.2	25.8	24.5	1.30	19.799	
500.0	500.0	497.2	496.8	0.8	0.9	36.86	26.2	19.6	32.9	31.2	1.67	19.677	SF
600.0	600.0	594.7	593.5	1.0	1.1	-69.23	32.9	30.2	44.2	42.1	2.01	21.988	
700.0	699.6	691.2	688.5	1.2	1.5	-70.57	42.1	44.8	58.4	56.0	2.40	24.357	
800.0	798.8	786.5	781.2	1.5	1.9	-73.51	53.7	63.1	75.8	72.9	2.87	26.447	
900.0	897.1	880.3	871.4	1.8	2.4	-76.78	67.6	85.0	96.5	93.1	3.45	27.940	
1,000.0	994.3	972.5	958.7	2.2	2.9	-79.85	83.4	110.0	120.7	116.6	4.19	28.784	
1,100.0	1,090.2	1,062.8	1,042.7	2.7	3.6	-82.52	101.2	138.1	148.5	143.4	5.10	29.129	
1,200.0	1,184.4	1,153.0	1,125.0	3.3	4.2	-84.82	120.9	169.2	179.7	173.6	6.16	29.170	
1,300.0	1,276.8	1,246.8	1,210.1	4.0	5.0	-87.48	142.0	202.5	212.0	204.6	7.42	28.594	
1,400.0	1,367.5	1,340.2	1,294.8	4.8	5.7	-90.80	163.0	235.6	245.0	236.2	8.80	27.847	
1,500.0	1,458.0	1,433.4	1,379.5	5.6	6.4	-93.74	183.9	268.8	278.7	268.5	10.22	27.285	
1,600.0	1,548.5	1,526.7	1,464.1	6.4	7.1	-96.05	204.9	301.9	313.0	301.3	11.64	26.899	
1,700.0	1,639.0	1,620.0	1,548.8	7.2	7.9	-97.91	225.9	335.0	347.6	334.5	13.05	26.626	
1,800.0	1,729.5	1,713.3	1,633.4	8.0	8.6	-99.43	246.8	368.1	382.4	368.0	14.47	26.428	
1,900.0	1,820.0	1,806.5	1,718.0	8.8	9.4	-100.71	267.8	401.2	417.5	401.6	15.89	26.282	
2,000.0	1,910.5	1,899.8	1,802.7	9.6	10.1	-101.78	288.8	434.3	452.7	435.4	17.30	26.171	
2,100.0	2,001.0	1,993.1	1,887.3	10.4	10.8	-102.70	309.7	467.4	488.1	469.4	18.71	26.087	
2,200.0	2,091.5	2,086.4	1,972.0	11.2	11.6	-103.50	330.7	500.6	523.5	503.4	20.12	26.021	
2,300.0	2,182.0	2,179.7	2,056.6	12.0	12.3	-104.19	351.7	533.7	559.0	537.5	21.53	25.970	
2,400.0	2,272.5	2,272.9	2,141.3	12.8	13.0	-104.80	372.6	566.8	594.6	571.7	22.93	25.929	
2,500.0	2,363.0	2,366.2	2,225.9	13.6	13.8	-105.35	393.6	599.9	630.2	605.9	24.34	25.896	
2,600.0	2,453.5	2,459.5	2,310.6	14.5	14.5	-105.83	414.6	633.0	665.9	640.2	25.74	25.870	
2,700.0	2,544.0	2,552.8	2,395.2	15.3	15.3	-106.27	435.6	666.1	701.6	674.5	27.14	25.849	
2,800.0	2,634.5	2,646.0	2,479.8	16.1	16.0	-106.66	456.5	699.2	737.4	708.8	28.55	25.831	
2,900.0	2,725.0	2,739.3	2,564.5	16.9	16.8	-107.02	477.5	732.3	773.1	743.2	29.95	25.817	
3,000.0	2,815.5	2,832.6	2,649.1	17.7	17.5	-107.35	498.5	765.5	808.9	777.6	31.35	25.805	
3,100.0	2,906.9	2,926.2	2,734.0	18.5	18.2	-108.48	519.5	798.7	844.1	811.3	32.80	25.738	
3,200.0	3,000.3	3,020.3	2,819.4	19.1	19.0	-109.29	540.6	832.1	877.8	843.6	34.14	25.707	
3,300.0	3,095.4	3,124.1	2,913.9	19.6	19.8	-109.68	563.8	868.6	909.6	874.2	35.43	25.677	
3,400.0	3,192.0	3,250.5	3,031.2	20.1	20.6	-109.82	588.8	908.2	937.5	900.9	36.63	25.597	
3,500.0	3,289.9	3,380.4	3,154.7	20.4	21.3	-109.89	610.2	941.9	960.5	922.8	37.63	25.526	
3,600.0	3,388.7	3,513.3	3,283.7	20.7	21.9	-109.90	627.4	969.0	978.3	939.9	38.41	25.472	
3,700.0	3,488.1	3,648.6	3,417.0	20.9	22.3	-109.84	639.9	988.8	990.8	951.9	38.95	25.435	
3,800.0	3,588.0	3,785.6	3,553.2	21.0	22.5	-109.73	647.3	1,000.6	997.9	958.6	39.28	25.403	
3,900.0	3,688.0	3,920.5	3,688.0	21.0	22.6	-0.57	649.6	1,004.2	999.7	960.2	39.43	25.351	
4,000.0	3,788.0	4,020.5	3,788.0	21.1	22.6	-0.57	649.6	1,004.2	999.7	960.1	39.56	25.273	
4,100.0	3,888.0	4,120.5	3,888.0	21.1	22.7	-0.57	649.6	1,004.2	999.7	960.0	39.68	25.194	
4,200.0	3,988.0	4,220.5	3,988.0	21.2	22.8	-0.57	649.6	1,004.2	999.7	959.9	39.81	25.114	
4,300.0	4,088.0	4,320.5	4,088.0	21.2	22.8	-0.57	649.6	1,004.2	999.7	959.7	39.94	25.032	
4,400.0	4,188.0	4,420.5	4,188.0	21.3	22.9	-0.57	649.6	1,004.2	999.7	959.6	40.07	24.950	
4,500.0	4,288.0	4,520.5	4,288.0	21.4	22.9	-0.57	649.6	1,004.2	999.7	959.5	40.20	24.866	
4,600.0	4,388.0	4,620.5	4,388.0	21.4	23.0	-0.57	649.6	1,004.2	999.7	959.3	40.34	24.782	
4,700.0	4,488.0	4,720.5	4,488.0	21.5	23.0	-0.57	649.6	1,004.2	999.7	959.2	40.48	24.696	
4,800.0	4,588.0	4,820.5	4,588.0	21.6	23.1	-0.57	649.6	1,004.2	999.7	959.1	40.62	24.610	
4,900.0	4,688.0	4,920.5	4,688.0	21.6	23.2	-0.57	649.6	1,004.2	999.7	958.9	40.77	24.522	
5,000.0	4,788.0	5,020.5	4,788.0	21.7	23.2	-0.57	649.6	1,004.2	999.7	958.8	40.91	24.434	
5,100.0	4,888.0	5,120.5	4,888.0	21.8	23.3	-0.57	649.6	1,004.2	999.7	958.6	41.06	24.345	

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 14C-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 14C-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	4,988.0	5,220.5	4,988.0	21.8	23.4	-0.57	649.6	1,004.2	999.7	958.5	41.22	24.255	
5,300.0	5,088.0	5,320.5	5,088.0	21.9	23.4	-0.57	649.6	1,004.2	999.7	958.3	41.37	24.165	
5,400.0	5,188.0	5,420.5	5,188.0	22.0	23.5	-0.57	649.6	1,004.2	999.7	958.2	41.53	24.073	
5,500.0	5,288.0	5,520.5	5,288.0	22.1	23.6	-0.57	649.6	1,004.2	999.7	958.0	41.69	23.981	
5,600.0	5,388.0	5,620.5	5,388.0	22.1	23.7	-0.57	649.6	1,004.2	999.7	957.8	41.85	23.889	
5,700.0	5,488.0	5,720.5	5,488.0	22.2	23.7	-0.57	649.6	1,004.2	999.7	957.7	42.01	23.796	
5,800.0	5,588.0	5,820.5	5,588.0	22.3	23.8	-0.57	649.6	1,004.2	999.7	957.5	42.18	23.702	
5,900.0	5,688.0	5,920.5	5,688.0	22.4	23.9	-0.57	649.6	1,004.2	999.7	957.3	42.34	23.608	
6,000.0	5,788.0	6,020.5	5,788.0	22.5	23.9	-0.57	649.6	1,004.2	999.7	957.2	42.52	23.513	
6,052.0	5,840.0	6,072.5	5,840.0	22.5	24.0	-0.57	649.6	1,004.2	999.7	957.1	42.60	23.464	

Company:	Caerus Oil & Gas (NAD 27)	**Local Co-ordinate Reference:**	Well Nolte 14C-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 14C-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	28.27	13.7	7.3	15.5				
100.0	100.0	100.0	100.0	0.1	0.1	28.27	13.7	7.3	15.5	15.3	0.25	61.018	
200.0	200.0	200.0	200.0	0.3	0.3	28.27	13.7	7.3	15.5	14.9	0.60	25.707	
300.0	300.0	300.0	300.0	0.5	0.5	28.27	13.7	7.3	15.5	14.6	0.95	16.284	
400.0	400.0	400.0	400.0	0.7	0.7	28.27	13.7	7.3	15.5	14.2	1.30	11.916	CC, ES
500.0	500.0	499.3	499.3	0.8	0.8	34.25	14.4	9.8	17.5	15.8	1.65	10.572	SF
600.0	600.0	598.3	598.0	1.0	1.0	-68.82	16.7	17.2	23.0	21.0	2.01	11.418	
700.0	699.6	696.8	695.6	1.2	1.3	-69.15	20.4	29.4	31.0	28.6	2.41	12.880	
800.0	798.8	794.7	791.9	1.5	1.6	-71.99	25.6	46.2	41.5	38.7	2.89	14.386	
900.0	897.1	891.9	886.5	1.8	2.0	-75.42	32.1	67.6	54.7	51.2	3.50	15.626	
1,000.0	994.3	988.2	979.0	2.2	2.5	-78.65	40.0	93.3	70.6	66.3	4.28	16.489	
1,100.0	1,090.2	1,083.6	1,069.1	2.7	3.1	-81.43	49.1	123.1	89.3	84.1	5.25	17.015	
1,200.0	1,184.4	1,178.6	1,157.3	3.3	3.7	-83.79	59.4	156.9	110.8	104.4	6.39	17.328	
1,300.0	1,276.8	1,275.8	1,246.9	4.0	4.4	-86.98	70.4	192.8	133.0	125.3	7.73	17.199	
1,400.0	1,367.5	1,372.6	1,336.2	4.8	5.1	-91.05	81.4	228.5	155.7	146.5	9.19	16.936	
1,500.0	1,458.0	1,469.3	1,425.4	5.6	5.8	-94.42	92.3	264.3	179.1	168.4	10.67	16.787	
1,600.0	1,548.5	1,566.1	1,514.7	6.4	6.5	-97.01	103.2	300.0	202.9	190.7	12.13	16.719	
1,700.0	1,639.0	1,662.8	1,603.9	7.2	7.2	-99.06	114.2	335.8	227.0	213.4	13.60	16.695	
1,800.0	1,729.5	1,759.6	1,693.2	8.0	7.9	-100.71	125.1	371.5	251.3	236.3	15.05	16.696	
1,900.0	1,820.0	1,856.4	1,782.4	8.8	8.6	-102.07	136.0	407.2	275.9	259.3	16.51	16.711	
2,000.0	1,910.5	1,953.1	1,871.7	9.6	9.3	-103.21	147.0	443.0	300.5	282.5	17.96	16.733	
2,100.0	2,001.0	2,049.9	1,960.9	10.4	10.1	-104.18	157.9	478.7	325.2	305.8	19.40	16.760	
2,200.0	2,091.5	2,146.6	2,050.2	11.2	10.8	-105.01	168.9	514.5	350.0	329.2	20.85	16.788	
2,300.0	2,182.0	2,243.4	2,139.4	12.0	11.5	-105.73	179.8	550.2	374.9	352.6	22.29	16.817	
2,400.0	2,272.5	2,340.2	2,228.7	12.8	12.2	-106.36	190.7	585.9	399.8	376.0	23.73	16.845	
2,500.0	2,363.0	2,436.9	2,317.9	13.6	12.9	-106.92	201.7	621.7	424.7	399.6	25.17	16.873	
2,600.0	2,453.5	2,533.7	2,407.2	14.5	13.6	-107.41	212.6	657.4	449.7	423.1	26.61	16.900	
2,700.0	2,544.0	2,630.4	2,496.4	15.3	14.3	-107.86	223.5	693.1	474.7	446.7	28.05	16.925	
2,800.0	2,634.5	2,727.2	2,585.7	16.1	15.0	-108.26	234.5	728.9	499.8	470.3	29.49	16.949	
2,900.0	2,725.0	2,824.0	2,674.9	16.9	15.8	-108.62	245.4	764.6	524.8	493.9	30.92	16.973	
3,000.0	2,815.5	2,920.7	2,764.2	17.7	16.5	-108.94	256.4	800.4	549.9	517.5	32.36	16.995	
3,100.0	2,906.9	3,017.7	2,853.6	18.5	17.2	-109.68	267.3	836.2	574.3	540.5	33.77	17.008	
3,200.0	3,000.3	3,116.4	2,944.7	19.1	17.9	-109.93	278.5	872.6	596.9	561.8	35.09	17.010	
3,300.0	3,095.4	3,222.7	3,044.3	19.6	18.6	-109.96	289.4	908.3	617.0	580.7	36.29	17.003	
3,400.0	3,192.0	3,330.3	3,146.9	20.1	19.1	-109.96	298.8	938.9	633.9	596.7	37.29	16.999	
3,500.0	3,289.9	3,438.9	3,252.3	20.4	19.6	-109.94	306.5	964.3	647.7	609.6	38.11	16.996	
3,600.0	3,388.7	3,548.5	3,359.8	20.7	19.9	-109.89	312.5	984.0	658.2	619.4	38.73	16.992	
3,700.0	3,488.1	3,658.8	3,469.1	20.9	20.2	-109.81	316.8	997.8	665.3	626.2	39.17	16.985	
3,800.0	3,588.0	3,769.5	3,579.5	21.0	20.3	-109.70	319.2	1,005.6	669.1	629.7	39.42	16.973	
3,900.0	3,688.0	3,877.9	3,688.0	21.0	20.4	-0.57	319.7	1,007.4	669.8	630.2	39.56	16.931	
4,000.0	3,788.0	3,977.9	3,788.0	21.1	20.5	-0.57	319.7	1,007.4	669.8	630.1	39.68	16.880	
4,100.0	3,888.0	4,077.9	3,888.0	21.1	20.5	-0.57	319.7	1,007.4	669.8	630.0	39.80	16.827	
4,200.0	3,988.0	4,177.9	3,988.0	21.2	20.6	-0.57	319.7	1,007.4	669.8	629.9	39.93	16.774	
4,300.0	4,088.0	4,277.9	4,088.0	21.2	20.6	-0.57	319.7	1,007.4	669.8	629.7	40.06	16.721	
4,400.0	4,188.0	4,377.9	4,188.0	21.3	20.7	-0.57	319.7	1,007.4	669.8	629.6	40.19	16.666	
4,500.0	4,288.0	4,477.9	4,288.0	21.4	20.8	-0.57	319.7	1,007.4	669.8	629.5	40.32	16.611	
4,600.0	4,388.0	4,577.9	4,388.0	21.4	20.8	-0.57	319.7	1,007.4	669.8	629.3	40.46	16.555	
4,700.0	4,488.0	4,677.9	4,488.0	21.5	20.9	-0.57	319.7	1,007.4	669.8	629.2	40.60	16.499	
4,800.0	4,588.0	4,777.9	4,588.0	21.6	21.0	-0.57	319.7	1,007.4	669.8	629.1	40.74	16.441	
4,900.0	4,688.0	4,877.9	4,688.0	21.6	21.0	-0.57	319.7	1,007.4	669.8	628.9	40.88	16.384	
5,000.0	4,788.0	4,977.9	4,788.0	21.7	21.1	-0.57	319.7	1,007.4	669.8	628.8	41.03	16.325	
5,100.0	4,888.0	5,077.9	4,888.0	21.8	21.2	-0.57	319.7	1,007.4	669.8	628.6	41.18	16.266	

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 14C-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 14C-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	4,988.0	5,177.9	4,988.0	21.8	21.2	-0.57	319.7	1,007.4	669.8	628.5	41.33	16.207	
5,300.0	5,088.0	5,277.9	5,088.0	21.9	21.3	-0.57	319.7	1,007.4	669.8	628.3	41.48	16.147	
5,400.0	5,188.0	5,377.9	5,188.0	22.0	21.4	-0.57	319.7	1,007.4	669.8	628.2	41.64	16.087	
5,500.0	5,288.0	5,477.9	5,288.0	22.1	21.5	-0.57	319.7	1,007.4	669.8	628.0	41.79	16.026	
5,600.0	5,388.0	5,577.9	5,388.0	22.1	21.6	-0.57	319.7	1,007.4	669.8	627.8	41.95	15.965	
5,700.0	5,488.0	5,677.9	5,488.0	22.2	21.6	-0.57	319.7	1,007.4	669.8	627.7	42.12	15.903	
5,800.0	5,588.0	5,777.9	5,588.0	22.3	21.7	-0.57	319.7	1,007.4	669.8	627.5	42.28	15.841	
5,900.0	5,688.0	5,877.9	5,688.0	22.4	21.8	-0.57	319.7	1,007.4	669.8	627.3	42.45	15.778	
6,000.0	5,788.0	5,977.9	5,788.0	22.5	21.9	-0.57	319.7	1,007.4	669.8	627.2	42.62	15.716	
6,052.0	5,840.0	6,030.0	5,840.0	22.5	21.9	-0.57	319.7	1,007.4	669.8	627.1	42.71	15.683	

Company:	Caerus Oil & Gas (NAD 27)	**Local Co-ordinate Reference:**	Well Nolte 14C-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 14C-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	29.01	6.6	3.6	7.5				
100.0	100.0	100.0	100.0	0.1	0.1	29.01	6.6	3.6	7.5	7.3	0.25	29.543	
200.0	200.0	200.0	200.0	0.3	0.3	29.01	6.6	3.6	7.5	6.9	0.60	12.451	
300.0	300.0	300.0	300.0	0.5	0.5	29.01	6.6	3.6	7.5	6.6	0.95	7.888	
400.0	400.0	400.0	400.0	0.7	0.7	29.01	6.6	3.6	7.5	6.2	1.30	5.772	
500.0	500.0	500.0	500.0	0.8	0.8	29.01	6.6	3.6	7.5	5.9	1.65	4.551	
559.0	559.0	559.0	559.0	0.9	0.9	-86.84	6.6	3.7	7.4	5.6	1.86	3.990	CC, ES
600.0	600.0	599.9	599.9	1.0	1.0	-95.21	6.6	4.3	7.6	5.6	2.00	3.809	SF
700.0	699.6	699.8	699.7	1.2	1.2	-111.12	6.5	9.5	9.9	7.5	2.39	4.147	
800.0	798.8	799.8	799.1	1.5	1.4	-118.17	6.3	20.0	14.2	11.3	2.83	5.000	
900.0	897.1	899.8	897.9	1.8	1.7	-120.02	6.0	35.6	20.0	16.7	3.39	5.922	
1,000.0	994.3	999.8	995.7	2.2	2.0	-119.67	5.7	56.4	27.5	23.4	4.09	6.708	
1,100.0	1,090.2	1,099.7	1,092.2	2.7	2.5	-118.47	5.3	82.2	36.3	31.4	4.99	7.291	
1,200.0	1,184.4	1,199.6	1,187.1	3.3	3.0	-117.01	4.8	113.0	46.7	40.6	6.08	7.683	
1,300.0	1,276.8	1,299.3	1,280.2	4.0	3.7	-115.51	4.2	148.7	58.6	51.2	7.39	7.928	
1,400.0	1,367.5	1,398.6	1,371.4	4.8	4.4	-114.35	3.5	188.2	71.7	62.9	8.82	8.130	
1,500.0	1,458.0	1,497.8	1,462.2	5.6	5.1	-113.63	2.8	228.0	84.9	74.6	10.27	8.263	
1,600.0	1,548.5	1,596.9	1,553.0	6.4	5.9	-113.11	2.2	267.7	98.1	86.3	11.75	8.349	
1,700.0	1,639.0	1,696.0	1,643.8	7.2	6.6	-112.71	1.5	307.5	111.3	98.1	13.23	8.409	
1,800.0	1,729.5	1,795.1	1,734.6	8.0	7.4	-112.39	0.9	347.2	124.5	109.8	14.73	8.451	
1,900.0	1,820.0	1,894.2	1,825.4	8.8	8.1	-112.14	0.2	386.9	137.7	121.5	16.24	8.483	
2,000.0	1,910.5	1,993.4	1,916.2	9.6	8.9	-111.93	-0.5	426.7	151.0	133.2	17.74	8.507	
2,100.0	2,001.0	2,092.5	2,007.0	10.4	9.6	-111.75	-1.1	466.4	164.2	144.9	19.26	8.525	
2,200.0	2,091.5	2,191.6	2,097.8	11.2	10.4	-111.60	-1.8	506.2	177.4	156.6	20.77	8.540	
2,300.0	2,182.0	2,290.7	2,188.6	12.0	11.1	-111.48	-2.4	545.9	190.6	168.3	22.29	8.552	
2,400.0	2,272.5	2,389.8	2,279.4	12.8	11.9	-111.36	-3.1	585.7	203.9	180.0	23.81	8.561	
2,500.0	2,363.0	2,489.0	2,370.2	13.6	12.7	-111.26	-3.8	625.4	217.1	191.8	25.33	8.569	
2,600.0	2,453.5	2,588.1	2,461.0	14.5	13.4	-111.18	-4.4	665.2	230.3	203.5	26.86	8.576	
2,700.0	2,544.0	2,687.2	2,551.8	15.3	14.2	-111.10	-5.1	704.9	243.5	215.2	28.38	8.582	
2,800.0	2,634.5	2,786.3	2,642.6	16.1	15.0	-111.03	-5.7	744.7	256.8	226.9	29.90	8.587	
2,900.0	2,725.0	2,885.4	2,733.4	16.9	15.7	-110.97	-6.4	784.4	270.0	238.6	31.43	8.591	
3,000.0	2,815.5	2,984.6	2,824.2	17.7	16.5	-110.91	-7.1	824.2	283.2	250.3	32.96	8.594	
3,100.0	2,906.9	3,083.4	2,914.8	18.5	17.2	-110.83	-7.7	863.5	295.7	261.3	34.43	8.589	
3,200.0	3,000.3	3,181.7	3,006.5	19.1	17.9	-110.61	-8.3	899.0	306.6	270.9	35.71	8.586	
3,300.0	3,095.4	3,280.4	3,100.2	19.6	18.4	-110.42	-8.8	929.8	316.0	279.2	36.81	8.586	
3,400.0	3,192.0	3,379.2	3,195.6	20.1	18.9	-110.25	-9.2	955.8	323.9	286.2	37.73	8.587	
3,500.0	3,289.9	3,478.3	3,292.3	20.4	19.2	-110.09	-9.6	976.9	330.3	291.8	38.46	8.587	
3,600.0	3,388.7	3,577.5	3,390.2	20.7	19.5	-109.95	-9.9	992.9	335.0	296.0	39.02	8.586	
3,700.0	3,488.1	3,676.9	3,489.0	20.9	19.7	-109.81	-10.0	1,003.9	338.2	298.8	39.41	8.582	
3,800.0	3,588.0	3,776.3	3,588.3	21.0	19.8	-109.68	-10.1	1,009.7	339.7	300.1	39.63	8.573	
3,900.0	3,688.0	3,876.0	3,688.0	21.0	19.9	-0.56	-10.2	1,010.7	339.9	300.1	39.76	8.549	
4,000.0	3,788.0	3,976.0	3,788.0	21.1	19.9	-0.56	-10.2	1,010.7	339.9	300.0	39.88	8.523	
4,100.0	3,888.0	4,076.0	3,888.0	21.1	20.0	-0.56	-10.2	1,010.7	339.9	299.9	40.00	8.497	
4,200.0	3,988.0	4,176.0	3,988.0	21.2	20.0	-0.56	-10.2	1,010.7	339.9	299.8	40.13	8.471	
4,300.0	4,088.0	4,276.0	4,088.0	21.2	20.1	-0.56	-10.2	1,010.7	339.9	299.6	40.25	8.444	
4,400.0	4,188.0	4,376.0	4,188.0	21.3	20.2	-0.56	-10.2	1,010.7	339.9	299.5	40.38	8.417	
4,500.0	4,288.0	4,476.0	4,288.0	21.4	20.2	-0.56	-10.2	1,010.7	339.9	299.4	40.52	8.389	
4,600.0	4,388.0	4,576.0	4,388.0	21.4	20.3	-0.56	-10.2	1,010.7	339.9	299.2	40.65	8.361	
4,700.0	4,488.0	4,676.0	4,488.0	21.5	20.4	-0.56	-10.2	1,010.7	339.9	299.1	40.79	8.333	
4,800.0	4,588.0	4,776.0	4,588.0	21.6	20.4	-0.56	-10.2	1,010.7	339.9	299.0	40.93	8.304	
4,900.0	4,688.0	4,876.0	4,688.0	21.6	20.5	-0.56	-10.2	1,010.7	339.9	298.8	41.07	8.275	
5,000.0	4,788.0	4,976.0	4,788.0	21.7	20.6	-0.56	-10.2	1,010.7	339.9	298.7	41.22	8.246	

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 14C-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 14C-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	4,888.0	5,076.0	4,888.0	21.8	20.7	-0.56	-10.2	1,010.7	339.9	298.5	41.37	8.217	
5,200.0	4,988.0	5,176.0	4,988.0	21.8	20.7	-0.56	-10.2	1,010.7	339.9	298.4	41.52	8.187	
5,300.0	5,088.0	5,276.0	5,088.0	21.9	20.8	-0.56	-10.2	1,010.7	339.9	298.2	41.67	8.157	
5,400.0	5,188.0	5,376.0	5,188.0	22.0	20.9	-0.56	-10.2	1,010.7	339.9	298.1	41.82	8.127	
5,500.0	5,288.0	5,476.0	5,288.0	22.1	21.0	-0.56	-10.2	1,010.7	339.9	297.9	41.98	8.096	
5,600.0	5,388.0	5,576.0	5,388.0	22.1	21.0	-0.56	-10.2	1,010.7	339.9	297.8	42.14	8.065	
5,700.0	5,488.0	5,676.0	5,488.0	22.2	21.1	-0.56	-10.2	1,010.7	339.9	297.6	42.30	8.035	
5,800.0	5,588.0	5,776.0	5,588.0	22.3	21.2	-0.56	-10.2	1,010.7	339.9	297.4	42.47	8.004	
5,900.0	5,688.0	5,876.0	5,688.0	22.4	21.3	-0.56	-10.2	1,010.7	339.9	297.3	42.63	7.972	
6,000.0	5,788.0	5,976.0	5,788.0	22.5	21.4	-0.56	-10.2	1,010.7	339.9	297.1	42.80	7.941	
6,052.0	5,840.0	6,028.1	5,840.0	22.5	21.4	-0.56	-10.2	1,010.7	339.9	297.0	42.89	7.925	

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

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

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference 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	-153.92	-7.6	-3.7	8.5				
100.0	100.0	100.0	100.0	0.1	0.1	-153.92	-7.6	-3.7	8.5	8.2	0.25	33.307	
200.0	200.0	200.0	200.0	0.3	0.3	-153.92	-7.6	-3.7	8.5	7.9	0.60	14.049	
300.0	300.0	300.0	300.0	0.5	0.5	-153.92	-7.6	-3.7	8.5	7.5	0.95	8.902	
400.0	400.0	400.0	400.0	0.7	0.7	-153.92	-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	-153.92	-7.6	-3.7	8.5	7.2	1.30	6.514	ES
500.0	500.0	499.9	499.8	0.8	0.8	-170.34	-9.0	-1.5	9.2	7.5	1.65	5.548	SF
600.0	600.0	599.4	599.0	1.0	1.0	59.33	-13.3	5.0	12.7	10.7	2.02	6.290	
700.0	699.6	698.6	697.4	1.2	1.3	51.18	-20.3	15.8	18.0	15.6	2.41	7.482	
800.0	798.8	797.5	794.7	1.5	1.6	49.06	-30.1	30.9	24.3	21.5	2.85	8.535	
900.0	897.1	896.1	890.5	1.8	2.0	49.52	-42.5	50.0	31.4	28.1	3.38	9.292	
1,000.0	994.3	994.3	984.8	2.2	2.5	51.11	-57.5	73.2	39.3	35.3	4.05	9.710	
1,100.0	1,090.2	1,092.2	1,077.1	2.7	3.1	53.17	-75.1	100.4	48.0	43.1	4.89	9.822	
1,200.0	1,184.4	1,189.7	1,167.4	3.3	3.8	55.38	-95.2	131.3	57.6	51.7	5.93	9.712	
1,300.0	1,276.8	1,286.8	1,255.3	4.0	4.6	57.58	-117.7	165.9	68.0	60.9	7.19	9.468	
1,400.0	1,367.5	1,384.7	1,341.8	4.8	5.5	59.52	-142.5	204.2	79.6	71.0	8.58	9.268	
1,500.0	1,458.0	1,483.9	1,429.3	5.6	6.3	60.91	-168.1	243.6	91.5	81.5	10.03	9.126	
1,600.0	1,548.5	1,583.2	1,516.7	6.4	7.2	61.98	-193.7	283.1	103.5	92.0	11.49	9.005	
1,700.0	1,639.0	1,682.5	1,604.1	7.2	8.1	62.83	-219.3	322.5	115.5	102.5	12.97	8.903	
1,800.0	1,729.5	1,781.7	1,691.5	8.0	9.0	63.52	-244.8	361.9	127.6	113.1	14.47	8.817	
1,900.0	1,820.0	1,881.0	1,779.0	8.8	9.9	64.09	-270.4	401.4	139.6	123.6	15.97	8.743	
2,000.0	1,910.5	1,980.2	1,866.4	9.6	10.8	64.57	-296.0	440.8	151.7	134.2	17.47	8.680	
2,100.0	2,001.0	2,079.5	1,953.8	10.4	11.7	64.98	-321.6	480.3	163.7	144.8	18.98	8.626	
2,200.0	2,091.5	2,178.8	2,041.3	11.2	12.5	65.33	-347.2	519.7	175.8	155.3	20.50	8.578	
2,300.0	2,182.0	2,278.0	2,128.7	12.0	13.4	65.64	-372.8	559.1	187.9	165.9	22.01	8.536	
2,400.0	2,272.5	2,377.3	2,216.1	12.8	14.3	65.91	-398.3	598.6	200.0	176.5	23.53	8.499	
2,500.0	2,363.0	2,476.6	2,303.5	13.6	15.2	66.14	-423.9	638.0	212.1	187.0	25.05	8.466	
2,600.0	2,453.5	2,575.8	2,391.0	14.5	16.1	66.36	-449.5	677.4	224.2	197.6	26.57	8.436	
2,700.0	2,544.0	2,675.1	2,478.4	15.3	17.0	66.55	-475.1	716.9	236.3	208.2	28.10	8.410	
2,800.0	2,634.5	2,774.3	2,565.8	16.1	17.9	66.72	-500.7	756.3	248.4	218.8	29.62	8.386	
2,900.0	2,725.0	2,873.6	2,653.2	16.9	18.8	66.88	-526.3	795.8	260.5	229.3	31.15	8.364	
3,000.0	2,815.5	2,974.9	2,742.5	17.7	19.7	67.05	-552.3	835.9	272.5	239.8	32.69	8.337	
3,100.0	2,906.9	3,083.4	2,840.2	18.5	20.6	67.75	-578.1	875.6	283.1	248.9	34.24	8.268	
3,200.0	3,000.3	3,192.4	2,940.7	19.1	21.3	68.38	-600.9	910.8	292.4	256.8	35.60	8.214	
3,300.0	3,095.4	3,301.7	3,043.8	19.6	21.9	68.90	-620.6	941.2	300.4	263.7	36.77	8.172	
3,400.0	3,192.0	3,411.2	3,149.1	20.1	22.5	69.34	-637.1	966.6	307.1	269.4	37.73	8.139	
3,500.0	3,289.9	3,521.1	3,256.2	20.4	22.9	69.70	-650.3	987.0	312.4	273.9	38.51	8.112	
3,600.0	3,388.7	3,631.1	3,364.7	20.7	23.2	69.98	-660.2	1,002.2	316.3	277.2	39.10	8.090	
3,700.0	3,488.1	3,741.2	3,474.2	20.9	23.4	70.20	-666.7	1,012.2	318.8	279.3	39.51	8.070	
3,800.0	3,588.0	3,851.4	3,584.2	21.0	23.5	70.35	-669.7	1,016.8	319.9	280.1	39.74	8.050	
3,900.0	3,688.0	3,955.2	3,688.0	21.0	23.5	179.44	-669.9	1,017.2	319.9	280.0	39.87	8.024	
4,000.0	3,788.0	4,055.2	3,788.0	21.1	23.6	179.44	-669.9	1,017.2	319.9	279.9	39.99	8.000	
4,100.0	3,888.0	4,155.2	3,888.0	21.1	23.6	179.44	-669.9	1,017.2	319.9	279.8	40.11	7.975	
4,200.0	3,988.0	4,255.2	3,988.0	21.2	23.7	179.44	-669.9	1,017.2	319.9	279.7	40.24	7.950	
4,300.0	4,088.0	4,355.2	4,088.0	21.2	23.7	179.44	-669.9	1,017.2	319.9	279.5	40.36	7.925	
4,400.0	4,188.0	4,455.2	4,188.0	21.3	23.8	179.44	-669.9	1,017.2	319.9	279.4	40.50	7.899	
4,500.0	4,288.0	4,555.2	4,288.0	21.4	23.8	179.44	-669.9	1,017.2	319.9	279.3	40.63	7.873	
4,600.0	4,388.0	4,655.2	4,388.0	21.4	23.9	179.44	-669.9	1,017.2	319.9	279.1	40.77	7.847	
4,700.0	4,488.0	4,755.2	4,488.0	21.5	24.0	179.44	-669.9	1,017.2	319.9	279.0	40.90	7.821	
4,800.0	4,588.0	4,855.2	4,588.0	21.6	24.0	179.44	-669.9	1,017.2	319.9	278.8	41.05	7.794	
4,900.0	4,688.0	4,955.2	4,688.0	21.6	24.1	179.44	-669.9	1,017.2	319.9	278.7	41.19	7.766	
5,000.0	4,788.0	5,055.2	4,788.0	21.7	24.2	179.44	-669.9	1,017.2	319.9	278.6	41.34	7.739	

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 14C-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 14C-13	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	DD	**Database:**	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference 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	4,888.0	5,155.2	4,888.0	21.8	24.2	179.44	-669.9	1,017.2	319.9	278.4	41.48	7.711	
5,200.0	4,988.0	5,255.2	4,988.0	21.8	24.3	179.44	-669.9	1,017.2	319.9	278.3	41.64	7.683	
5,300.0	5,088.0	5,355.2	5,088.0	21.9	24.3	179.44	-669.9	1,017.2	319.9	278.1	41.79	7.655	
5,400.0	5,188.0	5,455.2	5,188.0	22.0	24.4	179.44	-669.9	1,017.2	319.9	277.9	41.94	7.627	
5,500.0	5,288.0	5,555.2	5,288.0	22.1	24.5	179.44	-669.9	1,017.2	319.9	277.8	42.10	7.598	
5,600.0	5,388.0	5,655.2	5,388.0	22.1	24.6	179.44	-669.9	1,017.2	319.9	277.6	42.26	7.569	
5,700.0	5,488.0	5,755.2	5,488.0	22.2	24.6	179.44	-669.9	1,017.2	319.9	277.5	42.43	7.540	
5,800.0	5,588.0	5,855.2	5,588.0	22.3	24.7	179.44	-669.9	1,017.2	319.9	277.3	42.59	7.511	
5,900.0	5,688.0	5,955.2	5,688.0	22.4	24.8	179.44	-669.9	1,017.2	319.9	277.1	42.76	7.482	
6,000.0	5,788.0	6,055.2	5,788.0	22.5	24.8	179.44	-669.9	1,017.2	319.9	277.0	42.93	7.452	
6,030.6	5,818.5	6,085.8	5,818.5	22.5	24.9	179.44	-669.9	1,017.2	319.9	276.9	42.98	7.443	
6,052.0	5,840.0	6,097.2	5,830.0	22.5	24.9	179.44	-669.9	1,017.2	320.0	277.0	43.01	7.442	

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	**Local Co-ordinate Reference:**	Well Nolte 14C-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 14C-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	-4.77	18.3	-1.5	18.3				
100.0	100.0	100.0	100.0	0.1	0.1	-4.77	18.3	-1.5	18.3	18.1	0.25	71.976	
200.0	200.0	200.0	200.0	0.3	0.3	-4.77	18.3	-1.5	18.3	17.7	0.60	30.373	
300.0	300.0	300.0	300.0	0.5	0.5	-4.77	18.3	-1.5	18.3	17.4	0.95	19.247	CC, ES
400.0	400.0	399.0	398.9	0.7	0.7	-5.54	20.8	-2.0	20.9	19.6	1.31	16.016	SF
500.0	500.0	497.4	497.1	0.8	0.9	-7.01	28.3	-3.5	28.6	27.0	1.69	16.982	
600.0	600.0	594.6	593.4	1.0	1.1	-120.00	40.5	-5.9	42.7	40.7	1.99	21.438	
700.0	699.6	689.3	686.6	1.2	1.4	-125.31	57.1	-9.1	64.7	62.4	2.35	27.554	
800.0	798.8	780.6	775.6	1.5	1.8	-129.48	77.3	-13.0	94.9	92.2	2.73	34.747	
900.0	897.1	867.8	859.4	1.8	2.3	-132.33	100.5	-17.6	133.0	129.9	3.15	42.250	
1,000.0	994.3	950.0	937.5	2.2	2.7	-134.16	125.8	-22.5	178.6	175.0	3.60	49.552	
1,100.0	1,090.2	1,026.9	1,009.5	2.7	3.2	-135.24	152.4	-27.7	231.2	227.1	4.10	56.349	
1,200.0	1,184.4	1,100.0	1,076.8	3.3	3.7	-135.78	180.3	-33.1	290.1	285.5	4.65	62.418	
1,300.0	1,276.8	1,163.6	1,134.5	4.0	4.2	-135.73	206.7	-38.3	354.9	349.6	5.24	67.743	
1,400.0	1,367.5	1,223.8	1,188.2	4.8	4.7	-136.49	233.3	-43.5	424.3	418.4	5.87	72.285	
1,500.0	1,458.0	1,280.7	1,238.2	5.6	5.2	-137.51	260.0	-48.7	496.1	489.6	6.52	76.099	
1,600.0	1,548.5	1,334.6	1,284.7	6.4	5.7	-138.17	286.7	-53.9	569.7	562.6	7.17	79.414	
1,700.0	1,639.0	1,385.7	1,328.2	7.2	6.2	-138.60	313.1	-59.0	645.1	637.2	7.83	82.363	
1,800.0	1,729.5	1,434.2	1,368.7	8.0	6.7	-138.86	339.2	-64.1	721.9	713.4	8.49	84.997	
1,900.0	1,820.0	1,480.1	1,406.4	8.8	7.2	-139.02	364.9	-69.1	800.2	791.0	9.15	87.403	
2,000.0	1,910.5	1,523.6	1,441.6	9.6	7.6	-139.10	390.0	-74.1	879.7	869.9	9.82	89.606	
2,100.0	2,001.0	1,564.9	1,474.4	10.4	8.1	-139.12	414.6	-78.9	960.4	949.9	10.48	91.643	
2,200.0	2,091.5	1,600.0	1,501.9	11.2	8.5	-139.10	436.0	-83.0	1,042.3	1,031.1	11.13	93.666	
2,300.0	2,182.0	1,641.3	1,533.7	12.0	8.9	-139.05	461.9	-88.1	1,125.1	1,113.3	11.80	95.348	
2,400.0	2,272.5	1,690.6	1,571.2	12.8	9.5	-138.97	493.3	-94.2	1,208.6	1,196.1	12.50	96.691	
2,500.0	2,363.0	1,745.5	1,612.9	13.6	10.1	-138.89	528.4	-101.0	1,292.2	1,279.0	13.22	97.752	

Company:	Caerus Oil & Gas (NAD 27)	**Local Co-ordinate Reference:**	Well Nolte 14C-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 14C-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	-25.03	11.2	-5.2	12.4				
100.0	100.0	100.0	100.0	0.1	0.1	-25.03	11.2	-5.2	12.4	12.1	0.25	48.445	
200.0	200.0	200.0	200.0	0.3	0.3	-25.03	11.2	-5.2	12.4	11.7	0.60	20.449	
300.0	300.0	300.0	300.0	0.5	0.5	-25.03	11.2	-5.2	12.4	11.4	0.95	12.960	
333.4	333.4	333.4	333.4	0.5	0.5	-25.03	11.2	-5.2	12.4	11.3	1.07	11.547	CC, ES
400.0	400.0	399.7	399.7	0.7	0.7	-24.44	11.8	-5.4	13.0	11.7	1.30	9.977	SF
500.0	500.0	498.8	498.6	0.8	0.8	-21.26	16.8	-6.5	18.1	16.5	1.66	10.904	
600.0	600.0	596.8	596.1	1.0	1.1	-131.08	26.7	-8.9	30.0	28.0	2.00	15.036	
700.0	699.6	692.7	690.9	1.2	1.3	-134.58	41.0	-12.2	50.4	48.1	2.36	21.404	
800.0	798.8	785.4	781.6	1.5	1.7	-137.38	59.3	-16.5	79.2	76.5	2.74	28.973	
900.0	897.1	873.9	867.3	1.8	2.1	-139.22	80.7	-21.5	116.2	113.0	3.14	36.977	
1,000.0	994.3	957.5	947.3	2.2	2.5	-140.32	104.5	-27.1	160.8	157.2	3.58	44.897	
1,100.0	1,090.2	1,035.8	1,021.2	2.7	3.0	-140.87	129.8	-33.0	212.6	208.5	4.06	52.406	
1,200.0	1,184.4	1,108.4	1,088.6	3.3	3.5	-140.99	155.9	-39.2	270.9	266.3	4.57	59.302	
1,300.0	1,276.8	1,175.1	1,149.7	4.0	4.0	-140.75	182.0	-45.3	335.2	330.1	5.13	65.395	
1,400.0	1,367.5	1,236.4	1,204.9	4.8	4.5	-141.22	207.9	-51.4	404.3	398.6	5.72	70.646	
1,500.0	1,458.0	1,300.0	1,261.3	5.6	5.0	-142.00	236.5	-58.1	475.8	469.5	6.35	74.904	
1,600.0	1,548.5	1,349.2	1,304.2	6.4	5.4	-142.37	259.9	-63.5	549.1	542.1	6.97	78.816	
1,700.0	1,639.0	1,400.0	1,347.9	7.2	5.9	-142.60	285.2	-69.5	624.0	616.4	7.59	82.209	
1,800.0	1,729.5	1,463.4	1,401.8	8.0	6.5	-142.76	317.7	-77.1	700.0	691.8	8.26	84.780	
1,900.0	1,820.0	1,528.4	1,457.0	8.8	7.1	-142.89	351.0	-84.9	776.0	767.1	8.93	86.885	
2,000.0	1,910.5	1,593.3	1,512.2	9.6	7.7	-143.00	384.4	-92.7	852.1	842.5	9.61	88.656	
2,100.0	2,001.0	1,658.3	1,567.4	10.4	8.3	-143.09	417.7	-100.6	928.1	917.8	10.29	90.157	
2,200.0	2,091.5	1,723.2	1,622.6	11.2	8.9	-143.17	451.0	-108.4	1,004.1	993.2	10.98	91.450	
2,300.0	2,182.0	1,788.2	1,677.8	12.0	9.5	-143.23	484.4	-116.2	1,080.2	1,068.5	11.67	92.571	
2,400.0	2,272.5	1,853.1	1,733.0	12.8	10.1	-143.29	517.7	-124.0	1,156.2	1,143.9	12.36	93.551	
2,500.0	2,363.0	1,918.1	1,788.2	13.6	10.7	-143.34	551.0	-131.8	1,232.3	1,219.2	13.05	94.416	
2,600.0	2,453.5	1,983.0	1,843.4	14.5	11.3	-143.39	584.3	-139.6	1,308.3	1,294.5	13.74	95.183	

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 14C-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 14C-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	-65.26	4.1	-8.9	9.8				
100.0	100.0	100.0	100.0	0.1	0.1	-65.26	4.1	-8.9	9.8	9.5	0.26	38.402	
200.0	200.0	200.0	200.0	0.3	0.3	-65.26	4.1	-8.9	9.8	9.2	0.60	16.215	
300.0	300.0	300.0	300.0	0.5	0.5	-65.26	4.1	-8.9	9.8	8.8	0.95	10.277	
400.0	400.0	400.0	400.0	0.7	0.7	-65.26	4.1	-8.9	9.8	8.5	1.30	7.523	CC, ES
500.0	500.0	499.5	499.5	0.8	0.8	-56.26	6.5	-9.8	11.8	10.1	1.65	7.130	SF
600.0	600.0	598.3	598.0	1.0	1.0	-154.44	13.8	-12.4	21.0	19.0	2.00	10.467	
700.0	699.6	695.2	694.0	1.2	1.3	-151.12	25.5	-16.7	39.7	37.3	2.36	16.826	
800.0	798.8	788.8	786.1	1.5	1.6	-150.34	41.1	-22.4	67.4	64.6	2.72	24.731	
900.0	897.1	878.3	873.3	1.8	2.0	-150.13	60.1	-29.3	103.6	100.5	3.11	33.351	
1,000.0	994.3	962.9	954.8	2.2	2.4	-149.97	81.4	-37.1	147.8	144.3	3.51	42.149	
1,100.0	1,090.2	1,042.6	1,030.6	2.7	2.8	-149.72	104.7	-45.6	199.5	195.5	3.93	50.801	
1,200.0	1,184.4	1,124.9	1,108.4	3.3	3.2	-149.65	129.9	-54.8	256.2	251.8	4.39	58.421	
1,300.0	1,276.8	1,204.4	1,183.5	4.0	3.7	-149.71	154.2	-63.7	316.7	311.8	4.87	65.030	
1,400.0	1,367.5	1,281.4	1,256.4	4.8	4.1	-150.44	177.7	-72.3	380.2	374.8	5.39	70.529	
1,500.0	1,458.0	1,358.3	1,329.0	5.6	4.6	-151.35	201.2	-80.9	444.0	438.1	5.93	74.843	
1,600.0	1,548.5	1,435.1	1,401.6	6.4	5.0	-152.03	224.8	-89.5	507.9	501.4	6.48	78.383	
1,700.0	1,639.0	1,511.9	1,474.3	7.2	5.5	-152.56	248.3	-98.1	571.8	564.7	7.03	81.333	
1,800.0	1,729.5	1,588.7	1,546.9	8.0	5.9	-152.98	271.8	-106.7	635.7	628.1	7.58	83.821	
1,900.0	1,820.0	1,665.5	1,619.5	8.8	6.4	-153.32	295.3	-115.2	699.6	691.5	8.14	85.947	
2,000.0	1,910.5	1,742.4	1,692.2	9.6	6.8	-153.61	318.8	-123.8	763.6	754.9	8.70	87.785	
2,100.0	2,001.0	1,819.2	1,764.8	10.4	7.3	-153.85	342.3	-132.4	827.6	818.3	9.26	89.387	
2,200.0	2,091.5	1,896.0	1,837.4	11.2	7.8	-154.06	365.8	-141.0	891.5	881.7	9.82	90.795	
2,300.0	2,182.0	1,972.8	1,910.1	12.0	8.2	-154.24	389.3	-149.6	955.5	945.1	10.38	92.041	
2,400.0	2,272.5	2,049.7	1,982.7	12.8	8.7	-154.40	412.8	-158.2	1,019.5	1,008.6	10.94	93.152	
2,500.0	2,363.0	2,126.5	2,055.3	13.6	9.1	-154.53	436.3	-166.8	1,083.5	1,072.0	11.51	94.148	
2,600.0	2,453.5	2,203.3	2,128.0	14.5	9.6	-154.66	459.8	-175.3	1,147.5	1,135.4	12.07	95.047	
2,700.0	2,544.0	2,280.1	2,200.6	15.3	10.0	-154.77	483.3	-183.9	1,211.5	1,198.8	12.64	95.860	
2,800.0	2,634.5	2,357.0	2,273.2	16.1	10.5	-154.87	506.8	-192.5	1,275.5	1,262.3	13.20	96.600	
2,900.0	2,725.0	2,433.8	2,345.9	16.9	10.9	-154.96	530.3	-201.1	1,339.5	1,325.7	13.77	97.276	

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	**Local Co-ordinate Reference:**	Well Nolte 14C-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 14C-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	-103.36	-3.0	-12.6	12.9				
100.0	100.0	100.0	100.0	0.1	0.1	-103.36	-3.0	-12.6	12.9	12.7	0.26	50.709	
200.0	200.0	200.0	200.0	0.3	0.3	-103.36	-3.0	-12.6	12.9	12.3	0.60	21.423	
300.0	300.0	300.0	300.0	0.5	0.5	-103.36	-3.0	-12.6	12.9	12.0	0.95	13.580	
400.0	400.0	400.0	400.0	0.7	0.7	-103.36	-3.0	-12.6	12.9	11.6	1.30	9.941	
436.5	436.5	436.5	436.5	0.7	0.7	-103.36	-3.0	-12.6	12.9	11.5	1.43	9.055	CC
500.0	500.0	499.9	499.9	0.8	0.8	-101.52	-2.6	-12.8	13.1	11.4	1.65	7.917	ES, SF
600.0	600.0	599.5	599.5	1.0	1.0	165.17	0.4	-14.5	17.0	15.0	2.00	8.509	
700.0	699.6	698.0	697.7	1.2	1.2	-179.63	6.4	-17.9	29.5	27.1	2.35	12.544	
800.0	798.8	794.5	793.7	1.5	1.4	-172.01	15.0	-22.7	50.6	47.9	2.69	18.791	
900.0	897.1	888.3	886.6	1.8	1.7	-168.30	26.2	-29.0	79.9	76.8	3.04	26.278	
1,000.0	994.3	978.5	975.5	2.2	1.9	-166.26	39.4	-36.4	116.7	113.3	3.39	34.460	
1,100.0	1,090.2	1,064.6	1,059.9	2.7	2.3	-164.97	54.3	-44.8	160.7	157.0	3.74	43.003	
1,200.0	1,184.4	1,146.0	1,139.2	3.3	2.6	-164.04	70.4	-53.8	211.5	207.4	4.09	51.675	
1,300.0	1,276.8	1,222.4	1,213.1	4.0	2.9	-163.27	87.2	-63.3	268.5	264.1	4.45	60.296	
1,400.0	1,367.5	1,294.1	1,281.9	4.8	3.3	-162.94	104.6	-73.1	330.7	325.9	4.85	68.193	
1,500.0	1,458.0	1,363.0	1,347.6	5.6	3.6	-162.77	122.8	-83.3	394.9	389.6	5.28	74.825	
1,600.0	1,548.5	1,434.3	1,415.1	6.4	4.0	-162.53	142.8	-94.5	460.5	454.8	5.72	80.492	
1,700.0	1,639.0	1,509.6	1,486.4	7.2	4.5	-162.33	164.0	-106.5	526.3	520.1	6.18	85.164	
1,800.0	1,729.5	1,584.9	1,557.6	8.0	4.9	-162.17	185.3	-118.4	592.0	585.4	6.64	89.108	
1,900.0	1,820.0	1,660.2	1,628.9	8.8	5.3	-162.04	206.6	-130.4	657.8	650.7	7.11	92.482	
2,000.0	1,910.5	1,735.5	1,700.1	9.6	5.8	-161.94	227.9	-142.3	723.6	716.0	7.58	95.402	
2,100.0	2,001.0	1,810.8	1,771.4	10.4	6.2	-161.85	249.1	-154.3	789.4	781.3	8.06	97.948	
2,200.0	2,091.5	1,886.2	1,842.6	11.2	6.6	-161.78	270.4	-166.2	855.2	846.6	8.54	100.179	
2,300.0	2,182.0	1,961.5	1,913.8	12.0	7.1	-161.72	291.7	-178.2	921.0	912.0	9.02	102.152	
2,400.0	2,272.5	2,036.8	1,985.1	12.8	7.5	-161.66	313.0	-190.1	986.8	977.3	9.50	103.909	
2,500.0	2,363.0	2,112.1	2,056.3	13.6	8.0	-161.62	334.2	-202.1	1,052.5	1,042.6	9.98	105.483	
2,600.0	2,453.5	2,187.4	2,127.6	14.5	8.4	-161.57	355.5	-214.0	1,118.3	1,107.9	10.46	106.898	
2,700.0	2,544.0	2,262.7	2,198.8	15.3	8.9	-161.54	376.8	-226.0	1,184.1	1,173.2	10.95	108.177	
2,800.0	2,634.5	2,338.0	2,270.1	16.1	9.3	-161.50	398.1	-238.0	1,249.9	1,238.5	11.43	109.342	
2,900.0	2,725.0	2,465.1	2,391.2	16.9	10.0	-161.52	431.7	-256.9	1,314.2	1,302.2	12.02	109.362	

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 14C-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 14C-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	-121.75	-10.1	-16.3	19.2				
100.0	100.0	100.0	100.0	0.1	0.1	-121.75	-10.1	-16.3	19.2	18.9	0.26	75.024	
200.0	200.0	200.0	200.0	0.3	0.3	-121.75	-10.1	-16.3	19.2	18.6	0.60	31.705	
300.0	300.0	300.0	300.0	0.5	0.5	-121.75	-10.1	-16.3	19.2	18.2	0.95	20.100	
400.0	400.0	400.0	400.0	0.7	0.7	-121.75	-10.1	-16.3	19.2	17.9	1.30	14.714	
500.0	500.0	500.0	500.0	0.8	0.8	-121.75	-10.1	-16.3	19.2	17.5	1.65	11.604	CC, ES
600.0	600.0	599.3	599.2	1.0	1.0	140.11	-8.8	-18.5	22.5	20.5	2.00	11.226	SF
700.0	699.6	696.9	696.6	1.2	1.2	157.95	-5.1	-25.1	35.2	32.8	2.35	14.962	
800.0	798.8	793.5	792.5	1.5	1.4	168.70	0.4	-34.7	57.8	55.1	2.68	21.560	
900.0	897.1	889.1	887.5	1.8	1.6	173.78	5.9	-44.3	86.5	83.5	3.00	28.827	
1,000.0	994.3	983.0	980.7	2.2	1.9	176.48	11.3	-53.8	120.6	117.2	3.31	36.408	
1,100.0	1,090.2	1,075.0	1,072.1	2.7	2.1	178.06	16.6	-63.0	159.6	156.0	3.61	44.224	
1,200.0	1,184.4	1,164.8	1,161.3	3.3	2.3	179.05	21.7	-72.1	203.4	199.5	3.89	52.257	
1,300.0	1,276.8	1,252.2	1,248.1	4.0	2.6	179.70	26.7	-80.9	251.9	247.8	4.16	60.513	
1,400.0	1,367.5	1,337.5	1,332.8	4.8	2.8	-179.85	31.6	-89.5	304.2	299.7	4.46	68.218	
1,500.0	1,458.0	1,422.5	1,417.3	5.6	3.0	-179.52	36.5	-98.0	356.8	352.0	4.78	74.693	
1,600.0	1,548.5	1,507.5	1,501.7	6.4	3.2	-179.29	41.4	-106.6	409.3	404.3	5.09	80.363	
1,700.0	1,639.0	1,592.6	1,586.2	7.2	3.4	-179.10	46.3	-115.2	461.9	456.5	5.41	85.367	
1,800.0	1,729.5	1,677.6	1,670.7	8.0	3.7	-178.96	51.1	-123.7	514.5	508.8	5.73	89.818	
1,900.0	1,820.0	1,762.7	1,755.2	8.8	3.9	-178.84	56.0	-132.3	567.1	561.1	6.05	93.802	
2,000.0	1,910.5	1,847.7	1,839.6	9.6	4.1	-178.74	60.9	-140.9	619.7	613.4	6.36	97.389	
2,100.0	2,001.0	1,932.8	1,924.1	10.4	4.3	-178.65	65.8	-149.4	672.3	665.7	6.68	100.636	
2,200.0	2,091.5	2,017.8	2,008.6	11.2	4.6	-178.58	70.7	-158.0	724.9	718.0	7.00	103.589	
2,300.0	2,182.0	2,102.8	2,093.0	12.0	4.8	-178.52	75.6	-166.5	777.6	770.2	7.32	106.286	
2,400.0	2,272.5	2,187.9	2,177.5	12.8	5.0	-178.47	80.4	-175.1	830.2	822.5	7.63	108.759	
2,500.0	2,363.0	2,272.9	2,262.0	13.6	5.2	-178.42	85.3	-183.7	882.8	874.8	7.95	111.034	
2,600.0	2,453.5	2,358.0	2,346.4	14.5	5.5	-178.38	90.2	-192.2	935.4	927.1	8.27	113.135	
2,700.0	2,544.0	2,443.0	2,430.9	15.3	5.7	-178.34	95.1	-200.8	988.0	979.4	8.59	115.080	
2,800.0	2,634.5	2,528.1	2,515.4	16.1	5.9	-178.31	100.0	-209.4	1,040.6	1,031.7	8.90	116.888	
2,900.0	2,725.0	2,613.1	2,599.8	16.9	6.1	-178.27	104.8	-217.9	1,093.2	1,084.0	9.22	118.570	
3,000.0	2,815.5	2,698.1	2,684.3	17.7	6.4	-178.25	109.7	-226.5	1,145.8	1,136.3	9.54	120.141	
3,100.0	2,906.9	2,784.3	2,769.9	18.5	6.6	-178.27	114.7	-235.2	1,196.5	1,186.5	9.95	120.306	
3,200.0	3,000.3	2,873.0	2,858.0	19.1	6.8	-178.28	119.8	-244.1	1,242.6	1,232.3	10.35	120.026	
3,300.0	3,095.4	2,964.0	2,948.4	19.6	7.1	-178.28	125.0	-253.3	1,284.1	1,273.3	10.75	119.443	
3,400.0	3,192.0	3,057.1	3,040.8	20.1	7.3	-178.27	130.3	-262.6	1,320.7	1,309.5	11.14	118.593	
3,500.0	3,289.9	3,151.9	3,135.0	20.4	7.6	-178.25	135.8	-272.2	1,352.4	1,340.9	11.51	117.506	

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 14C-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 14C-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	-130.66	-17.2	-20.0	26.4				
100.0	100.0	100.0	100.0	0.1	0.1	-130.66	-17.2	-20.0	26.4	26.1	0.26	103.115	
200.0	200.0	200.0	200.0	0.3	0.3	-130.66	-17.2	-20.0	26.4	25.8	0.60	43.595	
300.0	300.0	300.0	300.0	0.5	0.5	-130.66	-17.2	-20.0	26.4	25.4	0.95	27.641	
400.0	400.0	400.0	400.0	0.7	0.7	-130.66	-17.2	-20.0	26.4	25.1	1.30	20.235	CC, ES
500.0	500.0	498.7	498.7	0.8	0.8	-128.05	-17.6	-22.5	28.6	27.0	1.65	17.323	SF
600.0	600.0	596.9	596.5	1.0	1.0	131.17	-19.1	-29.8	37.2	35.2	2.00	18.622	
700.0	699.6	694.4	693.5	1.2	1.2	136.93	-24.5	-38.8	53.4	51.0	2.35	22.723	
800.0	798.8	792.0	790.4	1.5	1.5	141.37	-31.3	-48.0	74.6	71.9	2.72	27.476	
900.0	897.1	888.4	886.1	1.8	1.7	145.41	-38.1	-57.2	100.3	97.2	3.10	32.397	
1,000.0	994.3	983.4	980.5	2.2	2.0	148.82	-44.8	-66.2	130.6	127.1	3.49	37.455	
1,100.0	1,090.2	1,076.7	1,073.1	2.7	2.2	151.63	-51.3	-75.0	165.6	161.7	3.88	42.631	
1,200.0	1,184.4	1,168.1	1,163.8	3.3	2.4	153.93	-57.7	-83.7	205.3	201.0	4.28	47.909	
1,300.0	1,276.8	1,257.2	1,252.4	4.0	2.7	155.79	-64.0	-92.1	249.6	244.9	4.69	53.269	
1,400.0	1,367.5	1,344.5	1,339.0	4.8	2.9	157.64	-70.1	-100.4	297.7	292.6	5.10	58.393	
1,500.0	1,458.0	1,431.5	1,425.4	5.6	3.1	159.18	-76.2	-108.6	346.4	340.9	5.52	62.731	
1,600.0	1,548.5	1,518.5	1,511.9	6.4	3.4	160.35	-82.3	-116.9	395.2	389.2	5.94	66.494	
1,700.0	1,639.0	1,605.6	1,598.3	7.2	3.6	161.26	-88.4	-125.1	444.1	437.7	6.36	69.785	
1,800.0	1,729.5	1,692.6	1,684.7	8.0	3.8	161.99	-94.5	-133.4	493.1	486.3	6.78	72.687	
1,900.0	1,820.0	1,779.6	1,771.1	8.8	4.1	162.59	-100.6	-141.6	542.1	534.9	7.20	75.264	
2,000.0	1,910.5	1,866.6	1,857.6	9.6	4.3	163.09	-106.8	-149.9	591.2	583.5	7.62	77.568	
2,100.0	2,001.0	1,953.7	1,944.0	10.4	4.5	163.51	-112.9	-158.1	640.3	632.2	8.04	79.638	
2,200.0	2,091.5	2,040.7	2,030.4	11.2	4.8	163.88	-119.0	-166.4	689.4	680.9	8.46	81.509	
2,300.0	2,182.0	2,127.7	2,116.8	12.0	5.0	164.19	-125.1	-174.6	738.5	729.6	8.88	83.208	
2,400.0	2,272.5	2,214.8	2,203.2	12.8	5.2	164.47	-131.2	-182.9	787.6	778.4	9.29	84.758	
2,500.0	2,363.0	2,301.8	2,289.7	13.6	5.5	164.71	-137.3	-191.1	836.8	827.1	9.71	86.176	
2,600.0	2,453.5	2,388.8	2,376.1	14.5	5.7	164.93	-143.4	-199.4	886.0	875.8	10.13	87.480	
2,700.0	2,544.0	2,475.9	2,462.5	15.3	5.9	165.12	-149.5	-207.6	935.2	924.6	10.55	88.682	
2,800.0	2,634.5	2,562.9	2,548.9	16.1	6.2	165.30	-155.6	-215.9	984.3	973.4	10.96	89.794	
2,900.0	2,725.0	2,649.9	2,635.4	16.9	6.4	165.45	-161.7	-224.1	1,033.5	1,022.2	11.38	90.826	
3,000.0	2,815.5	2,736.9	2,721.8	17.7	6.6	165.60	-167.8	-232.4	1,082.7	1,070.9	11.80	91.785	
3,100.0	2,906.9	2,825.0	2,809.2	18.5	6.9	166.06	-174.0	-240.7	1,130.0	1,117.8	12.26	92.172	
3,200.0	3,000.3	2,915.4	2,899.0	19.1	7.1	166.42	-180.4	-249.3	1,172.8	1,160.1	12.72	92.181	
3,300.0	3,095.4	3,007.8	2,990.8	19.6	7.4	166.66	-186.9	-258.0	1,211.0	1,197.8	13.18	91.884	
3,400.0	3,192.0	3,102.1	3,084.3	20.1	7.6	166.81	-193.5	-267.0	1,244.3	1,230.7	13.63	91.322	
3,500.0	3,289.9	3,197.8	3,179.4	20.4	7.9	166.86	-200.2	-276.1	1,272.9	1,258.8	14.06	90.530	
3,600.0	3,388.7	3,294.9	3,275.8	20.7	8.1	166.83	-207.0	-285.3	1,296.5	1,282.0	14.48	89.538	
3,700.0	3,488.1	3,393.0	3,373.2	20.9	8.4	166.71	-213.9	-294.6	1,315.2	1,300.3	14.88	88.369	
3,800.0	3,588.0	3,579.6	3,559.2	21.0	8.8	166.46	-222.5	-306.2	1,326.1	1,310.7	15.39	86.166	
3,900.0	3,688.0	3,708.4	3,688.0	21.0	8.9	-84.51	-223.0	-306.8	1,327.0	1,311.3	15.71	84.453	
4,000.0	3,788.0	3,808.4	3,788.0	21.1	9.0	-84.51	-223.0	-306.8	1,327.0	1,311.0	16.01	82.901	
4,100.0	3,888.0	3,908.4	3,888.0	21.1	9.2	-84.51	-223.0	-306.8	1,327.0	1,310.7	16.30	81.395	
4,200.0	3,988.0	4,008.4	3,988.0	21.2	9.3	-84.51	-223.0	-306.8	1,327.0	1,310.4	16.60	79.932	
4,300.0	4,088.0	4,108.4	4,088.0	21.2	9.4	-84.51	-223.0	-306.8	1,327.0	1,310.1	16.90	78.512	
4,400.0	4,188.0	4,208.4	4,188.0	21.3	9.6	-84.51	-223.0	-306.8	1,327.0	1,309.8	17.20	77.133	
4,500.0	4,288.0	4,308.4	4,288.0	21.4	9.7	-84.51	-223.0	-306.8	1,327.0	1,309.5	17.51	75.794	
4,600.0	4,388.0	4,408.4	4,388.0	21.4	9.8	-84.51	-223.0	-306.8	1,327.0	1,309.2	17.81	74.494	
4,700.0	4,488.0	4,508.4	4,488.0	21.5	10.0	-84.51	-223.0	-306.8	1,327.0	1,308.8	18.12	73.232	
4,800.0	4,588.0	4,608.4	4,588.0	21.6	10.1	-84.51	-223.0	-306.8	1,327.0	1,308.5	18.43	72.005	
4,900.0	4,688.0	4,708.4	4,688.0	21.6	10.2	-84.51	-223.0	-306.8	1,327.0	1,308.2	18.74	70.814	
5,000.0	4,788.0	4,808.4	4,788.0	21.7	10.4	-84.51	-223.0	-306.8	1,327.0	1,307.9	19.05	69.657	
5,100.0	4,888.0	4,908.4	4,888.0	21.8	10.5	-84.51	-223.0	-306.8	1,327.0	1,307.6	19.36	68.532	

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 14C-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 14C-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
5,200.0	4,988.0	5,008.4	4,988.0	21.8	10.7	-84.51	-223.0	-306.8	1,327.0	1,307.3	19.68	67.439	
5,300.0	5,088.0	5,108.4	5,088.0	21.9	10.8	-84.51	-223.0	-306.8	1,327.0	1,307.0	19.99	66.376	
5,400.0	5,188.0	5,208.4	5,188.0	22.0	11.0	-84.51	-223.0	-306.8	1,327.0	1,306.7	20.31	65.343	
5,500.0	5,288.0	5,308.4	5,288.0	22.1	11.1	-84.51	-223.0	-306.8	1,327.0	1,306.3	20.63	64.338	
5,600.0	5,388.0	5,408.4	5,388.0	22.1	11.2	-84.51	-223.0	-306.8	1,327.0	1,306.0	20.94	63.360	
5,700.0	5,488.0	5,508.4	5,488.0	22.2	11.4	-84.51	-223.0	-306.8	1,327.0	1,305.7	21.26	62.409	
5,800.0	5,588.0	5,608.4	5,588.0	22.3	11.5	-84.51	-223.0	-306.8	1,327.0	1,305.4	21.58	61.483	
5,900.0	5,688.0	5,708.4	5,688.0	22.4	11.7	-84.51	-223.0	-306.8	1,327.0	1,305.1	21.90	60.582	
6,000.0	5,788.0	5,808.4	5,788.0	22.5	11.8	-84.51	-223.0	-306.8	1,327.0	1,304.7	22.23	59.705	
6,052.0	5,840.0	5,825.7	5,805.3	22.5	11.9	-84.51	-223.0	-306.8	1,327.4	1,305.1	22.34	59.427	

Company:	Caerus Oil & Gas (NAD 27)	**Local Co-ordinate Reference:**	Well Nolte 14C-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 14C-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	-135.68	-24.3	-23.7	33.9				
100.0	100.0	100.0	100.0	0.1	0.1	-135.68	-24.3	-23.7	33.9	33.7	0.26	132.572	
200.0	200.0	200.0	200.0	0.3	0.3	-135.68	-24.3	-23.7	33.9	33.3	0.60	56.071	
300.0	300.0	300.0	300.0	0.5	0.5	-135.68	-24.3	-23.7	33.9	33.0	0.95	35.555	
400.0	400.0	400.0	400.0	0.7	0.7	-135.68	-24.3	-23.7	33.9	32.6	1.30	26.030	
500.0	500.0	500.0	500.0	0.8	0.8	-135.68	-24.3	-23.7	33.9	32.3	1.65	20.530	CC, ES
600.0	600.0	600.0	600.0	1.0	1.0	119.11	-24.3	-23.7	35.1	33.1	2.00	17.524	
700.0	699.6	699.6	699.6	1.2	1.2	128.97	-24.3	-23.7	39.5	37.2	2.37	16.710	SF
800.0	798.8	798.8	798.8	1.5	1.3	140.74	-24.3	-23.7	48.8	46.1	2.73	17.884	
900.0	897.1	897.1	897.1	1.8	1.5	150.85	-24.3	-23.7	64.0	61.0	3.08	20.786	
1,000.0	994.3	994.3	994.3	2.2	1.7	158.24	-24.3	-23.7	85.3	81.9	3.41	24.987	
1,100.0	1,090.2	1,090.2	1,090.2	2.7	1.9	163.37	-24.3	-23.7	112.2	108.5	3.73	30.111	
1,200.0	1,184.4	1,184.4	1,184.4	3.3	2.0	166.91	-24.3	-23.7	144.6	140.6	4.03	35.908	
1,300.0	1,276.8	1,276.8	1,276.8	4.0	2.2	169.41	-24.3	-23.7	182.2	177.9	4.31	42.228	
1,400.0	1,367.5	1,367.5	1,367.5	4.8	2.3	171.31	-24.3	-23.7	223.9	219.3	4.62	48.470	
1,500.0	1,458.0	1,458.0	1,458.0	5.6	2.5	172.69	-24.3	-23.7	266.1	261.2	4.94	53.840	
1,600.0	1,548.5	1,548.5	1,548.5	6.4	2.7	173.70	-24.3	-23.7	308.4	303.1	5.27	58.562	
1,700.0	1,639.0	1,639.0	1,639.0	7.2	2.8	174.46	-24.3	-23.7	350.8	345.2	5.59	62.742	
1,800.0	1,729.5	1,729.5	1,729.5	8.0	3.0	175.06	-24.3	-23.7	393.1	387.2	5.91	66.468	
1,900.0	1,820.0	1,820.0	1,820.0	8.8	3.1	175.54	-24.3	-23.7	435.6	429.3	6.24	69.808	
2,000.0	1,910.5	1,910.5	1,910.5	9.6	3.3	175.94	-24.3	-23.7	478.0	471.5	6.56	72.819	
2,100.0	2,001.0	2,001.0	2,001.0	10.4	3.4	176.27	-24.3	-23.7	520.5	513.6	6.89	75.546	
2,200.0	2,091.5	2,091.5	2,091.5	11.2	3.6	176.55	-24.3	-23.7	563.0	555.7	7.21	78.027	
2,300.0	2,182.0	2,182.0	2,182.0	12.0	3.8	176.79	-24.3	-23.7	605.4	597.9	7.54	80.295	
2,400.0	2,272.5	2,272.5	2,272.5	12.8	3.9	177.00	-24.3	-23.7	647.9	640.1	7.87	82.375	
2,500.0	2,363.0	2,363.0	2,363.0	13.6	4.1	177.19	-24.3	-23.7	690.4	682.2	8.19	84.289	
2,600.0	2,453.5	2,453.5	2,453.5	14.5	4.2	177.35	-24.3	-23.7	732.9	724.4	8.52	86.057	
2,700.0	2,544.0	2,544.0	2,544.0	15.3	4.4	177.50	-24.3	-23.7	775.4	766.6	8.84	87.695	
2,800.0	2,634.5	2,634.5	2,634.5	16.1	4.6	177.63	-24.3	-23.7	818.0	808.8	9.17	89.216	
2,900.0	2,725.0	2,725.0	2,725.0	16.9	4.7	177.74	-24.3	-23.7	860.5	851.0	9.49	90.633	
3,000.0	2,815.5	2,815.5	2,815.5	17.7	4.9	177.85	-24.3	-23.7	903.0	893.2	9.82	91.955	
3,100.0	2,906.9	2,906.9	2,906.9	18.5	5.0	177.99	-24.3	-23.7	943.5	933.3	10.23	92.262	
3,200.0	3,000.3	3,000.3	3,000.3	19.1	5.2	178.10	-24.3	-23.7	979.2	968.5	10.63	92.124	
3,300.0	3,095.4	3,095.4	3,095.4	19.6	5.4	178.19	-24.3	-23.7	1,009.9	998.9	11.02	91.650	
3,400.0	3,192.0	3,192.0	3,192.0	20.1	5.5	178.26	-24.3	-23.7	1,035.6	1,024.2	11.40	90.881	
3,500.0	3,289.9	3,289.9	3,289.9	20.4	5.7	178.31	-24.3	-23.7	1,056.2	1,044.5	11.76	89.846	
3,600.0	3,388.7	3,388.7	3,388.7	20.7	5.9	178.35	-24.3	-23.7	1,071.7	1,059.6	12.10	88.573	
3,700.0	3,488.1	3,488.1	3,488.1	20.9	6.0	178.37	-24.3	-23.7	1,082.0	1,069.6	12.43	87.082	
3,800.0	3,588.0	3,588.0	3,588.0	21.0	6.2	178.38	-24.3	-23.7	1,087.1	1,074.3	12.73	85.390	
3,900.0	3,688.0	3,688.0	3,688.0	21.0	6.4	-72.57	-24.3	-23.7	1,087.7	1,074.6	13.05	83.321	
4,000.0	3,788.0	3,788.0	3,788.0	21.1	6.6	-72.57	-24.3	-23.7	1,087.7	1,074.3	13.41	81.136	
4,100.0	3,888.0	3,888.0	3,888.0	21.1	6.7	-72.57	-24.3	-23.7	1,087.7	1,073.9	13.76	79.064	
4,200.0	3,988.0	3,988.0	3,988.0	21.2	6.9	-72.57	-24.3	-23.7	1,087.7	1,073.6	14.11	77.095	
4,300.0	4,088.0	4,088.0	4,088.0	21.2	7.1	-72.57	-24.3	-23.7	1,087.7	1,073.2	14.46	75.222	
4,400.0	4,188.0	4,188.0	4,188.0	21.3	7.3	-72.57	-24.3	-23.7	1,087.7	1,072.8	14.81	73.439	
4,500.0	4,288.0	4,288.0	4,288.0	21.4	7.4	-72.57	-24.3	-23.7	1,087.7	1,072.5	15.16	71.739	
4,600.0	4,388.0	4,388.0	4,388.0	21.4	7.6	-72.57	-24.3	-23.7	1,087.7	1,072.1	15.51	70.116	
4,700.0	4,488.0	4,488.0	4,488.0	21.5	7.8	-72.57	-24.3	-23.7	1,087.7	1,071.8	15.86	68.566	
4,800.0	4,588.0	4,588.0	4,588.0	21.6	8.0	-72.57	-24.3	-23.7	1,087.7	1,071.4	16.21	67.082	
4,900.0	4,688.0	4,688.0	4,688.0	21.6	8.1	-72.57	-24.3	-23.7	1,087.7	1,071.1	16.56	65.662	
5,000.0	4,788.0	4,788.0	4,788.0	21.7	8.3	-72.57	-24.3	-23.7	1,087.7	1,070.7	16.92	64.301	
5,100.0	4,888.0	4,888.0	4,888.0	21.8	8.5	-72.57	-24.3	-23.7	1,087.7	1,070.4	17.27	62.996	

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 14C-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 14C-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
5,200.0	4,988.0	4,988.0	4,988.0	21.8	8.7	-72.57	-24.3	-23.7	1,087.7	1,070.0	17.62	61.742	
5,300.0	5,088.0	5,088.0	5,088.0	21.9	8.8	-72.57	-24.3	-23.7	1,087.7	1,069.7	17.97	60.538	
5,400.0	5,188.0	5,188.0	5,188.0	22.0	9.0	-72.57	-24.3	-23.7	1,087.7	1,069.3	18.32	59.380	
5,500.0	5,288.0	5,288.0	5,288.0	22.1	9.2	-72.57	-24.3	-23.7	1,087.7	1,069.0	18.67	58.265	
5,600.0	5,388.0	5,388.0	5,388.0	22.1	9.4	-72.57	-24.3	-23.7	1,087.7	1,068.6	19.02	57.192	
5,700.0	5,488.0	5,488.0	5,488.0	22.2	9.5	-72.57	-24.3	-23.7	1,087.7	1,068.3	19.37	56.158	
5,800.0	5,588.0	5,588.0	5,588.0	22.3	9.7	-72.57	-24.3	-23.7	1,087.7	1,067.9	19.72	55.160	
5,900.0	5,688.0	5,688.0	5,688.0	22.4	9.9	-72.57	-24.3	-23.7	1,087.7	1,067.6	20.07	54.198	
6,000.0	5,788.0	5,788.0	5,788.0	22.5	10.1	-72.57	-24.3	-23.7	1,087.7	1,067.2	20.42	53.269	
6,052.0	5,840.0	5,840.0	5,840.0	22.5	10.1	-72.57	-24.3	-23.7	1,087.7	1,067.1	20.60	52.798	

Company:	Caerus Oil & Gas (NAD 27)	**Local Co-ordinate Reference:**	Well Nolte 14C-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 14C-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 14C-13
Coordinate System is US State Plane 1927 (Exact solution), Colorado Central 502
Grid Convergence at Surface is: -1.62°