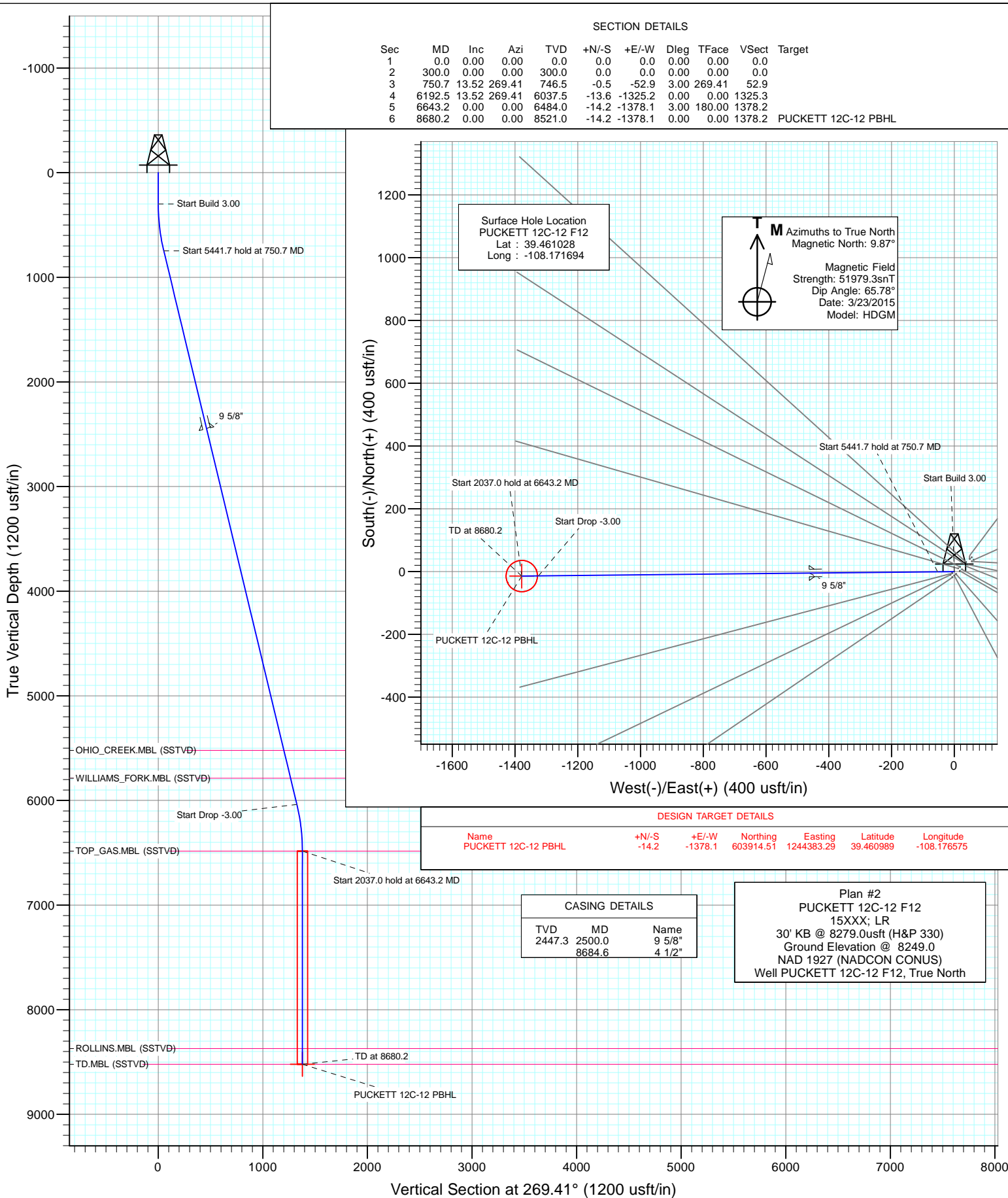




Project: Garfield County, CO
 Site: S12-T7S-R97W
 Well: PUCKETT 12C-12 F12
 Wellbore: OH
 Design: Plan #2



Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well PUCKETT 12C-12 F12
Company:	Caerus Oil & Gas (NAD 27)	TVD Reference:	30' KB @ 8279.0usft (H&P 330)
Project:	Garfield County, CO	MD Reference:	30' KB @ 8279.0usft (H&P 330)
Site:	S12-T7S-R97W	North Reference:	True
Well:	PUCKETT 12C-12 F12	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

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					
S12-T7S-R97W					
Site Position:		Northing:		605,875.89 usft	
From:		Easting:		1,246,355.53 usft	
Position Uncertainty:		Slot Radius:		Grid Convergence:	
Lat/Long		13-3/16"		39.466531	
0.0 usft				-108.169797	
				-1.68 °	

Well	PUCKETT 12C-12 F12					
Well Position	+N/-S	0.0 usft	Northing:	603,888.14 usft	Latitude:	39.461028
	+E/-W	0.0 usft	Easting:	1,245,761.26 usft	Longitude:	-108.171694
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	8,249.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	HDGM	3/23/2015	9.87	65.78	51,979

Design	Plan #2				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.0	0.0	0.0	269.41	

Plan Sections										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)	(°)	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.00	0.00	
750.7	13.52	269.41	746.5	-0.5	-52.9	3.00	3.00	0.00	269.41	
6,192.5	13.52	269.41	6,037.5	-13.6	-1,325.2	0.00	0.00	0.00	0.00	
6,643.2	0.00	0.00	6,484.0	-14.2	-1,378.1	3.00	-3.00	0.00	180.00	
8,680.2	0.00	0.00	8,521.0	-14.2	-1,378.1	0.00	0.00	0.00	0.00	PUCKETT 12C-12 PE

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well PUCKETT 12C-12 F12
Company:	Caerus Oil & Gas (NAD 27)	TVD Reference:	30' KB @ 8279.0usft (H&P 330)
Project:	Garfield County, CO	MD Reference:	30' KB @ 8279.0usft (H&P 330)
Site:	S12-T7S-R97W	North Reference:	True
Well:	PUCKETT 12C-12 F12	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100u)	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	Start Build 3.00
400.0	3.00	269.41	400.0	0.0	-2.6	2.6	3.00	3.00	
500.0	6.00	269.41	499.6	-0.1	-10.5	10.5	3.00	3.00	
600.0	9.00	269.41	598.8	-0.2	-23.5	23.5	3.00	3.00	
700.0	12.00	269.41	697.1	-0.4	-41.7	41.7	3.00	3.00	
750.7	13.52	269.41	746.5	-0.5	-52.9	52.9	3.00	3.00	Start 5441.7 hold at 750.7 MD
800.0	13.52	269.41	794.5	-0.7	-64.5	64.5	0.00	0.00	
900.0	13.52	269.41	891.7	-0.9	-87.8	87.8	0.00	0.00	
1,000.0	13.52	269.41	988.9	-1.1	-111.2	111.2	0.00	0.00	
1,100.0	13.52	269.41	1,086.1	-1.4	-134.6	134.6	0.00	0.00	
1,200.0	13.52	269.41	1,183.4	-1.6	-158.0	158.0	0.00	0.00	
1,300.0	13.52	269.41	1,280.6	-1.9	-181.4	181.4	0.00	0.00	
1,400.0	13.52	269.41	1,377.8	-2.1	-204.7	204.7	0.00	0.00	
1,500.0	13.52	269.41	1,475.1	-2.3	-228.1	228.1	0.00	0.00	
1,600.0	13.52	269.41	1,572.3	-2.6	-251.5	251.5	0.00	0.00	
1,700.0	13.52	269.41	1,669.5	-2.8	-274.9	274.9	0.00	0.00	
1,800.0	13.52	269.41	1,766.7	-3.1	-298.3	298.3	0.00	0.00	
1,900.0	13.52	269.41	1,864.0	-3.3	-321.6	321.7	0.00	0.00	
2,000.0	13.52	269.41	1,961.2	-3.5	-345.0	345.0	0.00	0.00	
2,100.0	13.52	269.41	2,058.4	-3.8	-368.4	368.4	0.00	0.00	
2,200.0	13.52	269.41	2,155.7	-4.0	-391.8	391.8	0.00	0.00	
2,300.0	13.52	269.41	2,252.9	-4.3	-415.2	415.2	0.00	0.00	
2,400.0	13.52	269.41	2,350.1	-4.5	-438.5	438.6	0.00	0.00	
2,500.0	13.52	269.41	2,447.3	-4.7	-461.9	461.9	0.00	0.00	9 5/8"
2,600.0	13.52	269.41	2,544.6	-5.0	-485.3	485.3	0.00	0.00	
2,700.0	13.52	269.41	2,641.8	-5.2	-508.7	508.7	0.00	0.00	
2,800.0	13.52	269.41	2,739.0	-5.5	-532.1	532.1	0.00	0.00	
2,900.0	13.52	269.41	2,836.3	-5.7	-555.4	555.5	0.00	0.00	
3,000.0	13.52	269.41	2,933.5	-5.9	-578.8	578.8	0.00	0.00	
3,100.0	13.52	269.41	3,030.7	-6.2	-602.2	602.2	0.00	0.00	
3,200.0	13.52	269.41	3,127.9	-6.4	-625.6	625.6	0.00	0.00	
3,300.0	13.52	269.41	3,225.2	-6.7	-649.0	649.0	0.00	0.00	
3,400.0	13.52	269.41	3,322.4	-6.9	-672.3	672.4	0.00	0.00	
3,500.0	13.52	269.41	3,419.6	-7.1	-695.7	695.7	0.00	0.00	
3,600.0	13.52	269.41	3,516.9	-7.4	-719.1	719.1	0.00	0.00	
3,700.0	13.52	269.41	3,614.1	-7.6	-742.5	742.5	0.00	0.00	
3,800.0	13.52	269.41	3,711.3	-7.9	-765.9	765.9	0.00	0.00	
3,900.0	13.52	269.41	3,808.5	-8.1	-789.2	789.3	0.00	0.00	
4,000.0	13.52	269.41	3,905.8	-8.3	-812.6	812.7	0.00	0.00	
4,100.0	13.52	269.41	4,003.0	-8.6	-836.0	836.0	0.00	0.00	
4,200.0	13.52	269.41	4,100.2	-8.8	-859.4	859.4	0.00	0.00	
4,300.0	13.52	269.41	4,197.4	-9.1	-882.8	882.8	0.00	0.00	
4,400.0	13.52	269.41	4,294.7	-9.3	-906.1	906.2	0.00	0.00	
4,500.0	13.52	269.41	4,391.9	-9.5	-929.5	929.6	0.00	0.00	
4,600.0	13.52	269.41	4,489.1	-9.8	-952.9	952.9	0.00	0.00	
4,700.0	13.52	269.41	4,586.4	-10.0	-976.3	976.3	0.00	0.00	
4,800.0	13.52	269.41	4,683.6	-10.3	-999.7	999.7	0.00	0.00	
4,900.0	13.52	269.41	4,780.8	-10.5	-1,023.0	1,023.1	0.00	0.00	
5,000.0	13.52	269.41	4,878.0	-10.8	-1,046.4	1,046.5	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well PUCKETT 12C-12 F12
Company:	Caerus Oil & Gas (NAD 27)	TVD Reference:	30' KB @ 8279.0usft (H&P 330)
Project:	Garfield County, CO	MD Reference:	30' KB @ 8279.0usft (H&P 330)
Site:	S12-T7S-R97W	North Reference:	True
Well:	PUCKETT 12C-12 F12	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100u)	Comments / Formations
5,100.0	13.52	269.41	4,975.3	-11.0	-1,069.8	1,069.8	0.00	0.00	
5,200.0	13.52	269.41	5,072.5	-11.2	-1,093.2	1,093.2	0.00	0.00	
5,300.0	13.52	269.41	5,169.7	-11.5	-1,116.6	1,116.6	0.00	0.00	
5,400.0	13.52	269.41	5,267.0	-11.7	-1,139.9	1,140.0	0.00	0.00	
5,500.0	13.52	269.41	5,364.2	-12.0	-1,163.3	1,163.4	0.00	0.00	
5,600.0	13.52	269.41	5,461.4	-12.2	-1,186.7	1,186.8	0.00	0.00	
5,661.3	13.52	269.41	5,521.0	-12.3	-1,201.0	1,201.1	0.00	0.00	OHIO_CREEK.MBL (SSTVD)
5,700.0	13.52	269.41	5,558.6	-12.4	-1,210.1	1,210.1	0.00	0.00	
5,800.0	13.52	269.41	5,655.9	-12.7	-1,233.5	1,233.5	0.00	0.00	
5,900.0	13.52	269.41	5,753.1	-12.9	-1,256.8	1,256.9	0.00	0.00	
5,934.9	13.52	269.41	5,787.0	-13.0	-1,265.0	1,265.0	0.00	0.00	WILLIAMS_FORK.MBL (SSTVD)
6,000.0	13.52	269.41	5,850.3	-13.2	-1,280.2	1,280.3	0.00	0.00	
6,100.0	13.52	269.41	5,947.6	-13.4	-1,303.6	1,303.7	0.00	0.00	
6,192.5	13.52	269.41	6,037.5	-13.6	-1,325.2	1,325.3	0.00	0.00	Start Drop -3.00
6,200.0	13.30	269.41	6,044.8	-13.6	-1,327.0	1,327.0	3.00	-3.00	
6,300.0	10.30	269.41	6,142.7	-13.8	-1,347.4	1,347.5	3.00	-3.00	
6,400.0	7.30	269.41	6,241.5	-14.0	-1,362.7	1,362.8	3.00	-3.00	
6,500.0	4.30	269.41	6,341.0	-14.1	-1,372.8	1,372.8	3.00	-3.00	
6,600.0	1.30	269.41	6,440.8	-14.2	-1,377.7	1,377.7	3.00	-3.00	
6,643.2	0.00	0.00	6,484.0	-14.2	-1,378.1	1,378.2	3.00	-3.00	Start 2037.0 hold at 6643.2 MD - TOP_GAS.ME
6,700.0	0.00	0.00	6,540.8	-14.2	-1,378.1	1,378.2	0.00	0.00	
6,800.0	0.00	0.00	6,640.8	-14.2	-1,378.1	1,378.2	0.00	0.00	
6,900.0	0.00	0.00	6,740.8	-14.2	-1,378.1	1,378.2	0.00	0.00	
7,000.0	0.00	0.00	6,840.8	-14.2	-1,378.1	1,378.2	0.00	0.00	
7,100.0	0.00	0.00	6,940.8	-14.2	-1,378.1	1,378.2	0.00	0.00	
7,200.0	0.00	0.00	7,040.8	-14.2	-1,378.1	1,378.2	0.00	0.00	
7,300.0	0.00	0.00	7,140.8	-14.2	-1,378.1	1,378.2	0.00	0.00	
7,400.0	0.00	0.00	7,240.8	-14.2	-1,378.1	1,378.2	0.00	0.00	
7,500.0	0.00	0.00	7,340.8	-14.2	-1,378.1	1,378.2	0.00	0.00	
7,600.0	0.00	0.00	7,440.8	-14.2	-1,378.1	1,378.2	0.00	0.00	
7,700.0	0.00	0.00	7,540.8	-14.2	-1,378.1	1,378.2	0.00	0.00	
7,800.0	0.00	0.00	7,640.8	-14.2	-1,378.1	1,378.2	0.00	0.00	
7,900.0	0.00	0.00	7,740.8	-14.2	-1,378.1	1,378.2	0.00	0.00	
8,000.0	0.00	0.00	7,840.8	-14.2	-1,378.1	1,378.2	0.00	0.00	
8,100.0	0.00	0.00	7,940.8	-14.2	-1,378.1	1,378.2	0.00	0.00	
8,200.0	0.00	0.00	8,040.8	-14.2	-1,378.1	1,378.2	0.00	0.00	
8,300.0	0.00	0.00	8,140.8	-14.2	-1,378.1	1,378.2	0.00	0.00	
8,400.0	0.00	0.00	8,240.8	-14.2	-1,378.1	1,378.2	0.00	0.00	
8,500.0	0.00	0.00	8,340.8	-14.2	-1,378.1	1,378.2	0.00	0.00	
8,530.2	0.00	0.00	8,371.0	-14.2	-1,378.1	1,378.2	0.00	0.00	ROLLINS.MBL (SSTVD)
8,600.0	0.00	0.00	8,440.8	-14.2	-1,378.1	1,378.2	0.00	0.00	
8,680.2	0.00	0.00	8,521.0	-14.2	-1,378.1	1,378.2	0.00	0.00	TD at 8680.2 - TD.MBL (SSTVD)

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well PUCKETT 12C-12 F12
Company:	Caerus Oil & Gas (NAD 27)	TVD Reference:	30' KB @ 8279.0usft (H&P 330)
Project:	Garfield County, CO	MD Reference:	30' KB @ 8279.0usft (H&P 330)
Site:	S12-T7S-R97W	North Reference:	True
Well:	PUCKETT 12C-12 F12	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
PUCKETT 12C-12 PBHI	0.00	0.00	8,521.0	-14.2	-1,378.1	603,914.51	1,244,383.29	39.460989	-108.176575
- plan hits target center									
- Circle (radius 50.0)									
	2,500.0	2,447.3	9 5/8"					0	0
	8,684.6		4 1/2"					0	0

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
5,661.3	5,521.0	OHIO_CREEK.MBL (SSTVD)		0.00	
5,934.9	5,787.0	WILLIAMS_FORK.MBL (SSTVD)		0.00	
6,643.2	6,484.0	TOP_GAS.MBL (SSTVD)		0.00	
8,530.2	8,371.0	ROLLINS.MBL (SSTVD)		0.00	
8,680.2	8,521.0	TD.MBL (SSTVD)		0.00	

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
300.0	300.0	0.0	0.0	Start Build 3.00
750.7	746.5	-0.5	-52.9	Start 5441.7 hold at 750.7 MD
6,192.5	6,037.5	-13.6	-1,325.2	Start Drop -3.00
6,643.2	6,484.0	-14.2	-1,378.1	Start 2037.0 hold at 6643.2 MD
8,680.2	8,521.0	-14.2	-1,378.1	TD at 8680.2

Caerus Oil & Gas (NAD 27)

Garfield County, CO

S12-T7S-R97W

PUCKETT 12C-12 F12

OH

Plan #2

Anticollision Report

09 April, 2015

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 12C-12 F12
Project:	Garfield County, CO	TVD Reference:	30' KB @ 8279.0usft (H&P 330)
Reference Site:	S12-T7S-R97W	MD Reference:	30' KB @ 8279.0usft (H&P 330)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 12C-12 F12	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Reference	Plan #2		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 5,280.0usft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program		Date	4/9/2015		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	8,680.2	Plan #2 (OH)	ISCWSA MWD	MWD - Standard	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
S12-T7S-R97W						
PUCKETT 11C-12 F12 - OH - Plan #2	313.3	313.6	47.8	46.7	42.744	CC, ES
PUCKETT 11C-12 F12 - OH - Plan #2	8,680.2	8,823.8	1,335.6	1,268.5	19.882	SF
PUCKETT 11D-12 F12 - OH - Plan #2	328.9	329.3	39.9	38.7	33.589	CC, ES
PUCKETT 11D-12 F12 - OH - Plan #2	8,680.2	8,761.1	968.3	901.8	14.566	SF
PUCKETT 12A-12 F12 - OH - Plan #2	351.3	351.8	22.4	21.1	17.302	CC, ES
PUCKETT 12A-12 F12 - OH - Plan #2	8,680.2	8,724.9	720.6	654.8	10.951	SF
PUCKETT 12B-12 F12 - OH - Plan #2	384.5	385.0	15.1	13.6	10.477	CC
PUCKETT 12B-12 F12 - OH - Plan #2	400.0	400.6	15.1	13.6	9.994	ES
PUCKETT 12B-12 F12 - OH - Plan #2	8,680.2	8,699.7	430.2	364.9	6.580	SF
PUCKETT 12D-12 F12 - OH - Plan #2	233.7	233.7	8.3	7.5	10.887	CC, ES
PUCKETT 12D-12 F12 - OH - Plan #2	8,680.2	8,679.7	354.2	289.4	5.468	SF
PUCKETT 13A-12 F12 - OH - Plan #2	200.0	200.0	15.6	15.0	25.773	CC, ES
PUCKETT 13A-12 F12 - OH - Plan #2	8,680.2	8,689.0	652.0	587.0	10.032	SF
PUCKETT 13B-12 F12 - OH - Plan #2	200.0	200.0	19.1	18.5	31.418	CC, ES
PUCKETT 13B-12 F12 - OH - Plan #2	8,680.2	8,709.4	922.7	857.4	14.122	SF
PUCKETT 22B-12 F12 - OH - PLAN #1	200.0	200.0	64.3	63.7	105.909	CC, ES
PUCKETT 22B-12 F12 - OH - PLAN #1	600.0	589.6	101.6	98.9	38.135	SF
PUCKETT 22C-12 F12 - OH - PLAN #1	200.0	200.0	73.0	72.4	120.365	CC, ES
PUCKETT 22C-12 F12 - OH - PLAN #1	700.0	688.7	139.6	136.3	42.458	SF
PUCKETT 22D-12 F12 - OH - Plan #2	233.6	233.6	18.7	18.0	24.699	CC, ES
PUCKETT 22D-12 F12 - OH - Plan #2	400.0	398.9	24.6	23.1	15.950	SF
PUCKETT 23A-12 F12 - OH - Plan #2	200.0	200.0	10.1	9.5	16.707	CC, ES
PUCKETT 23A-12 F12 - OH - Plan #2	300.0	299.6	11.9	10.8	11.462	SF
PUCKETT 23B-12 F12 - OH - Plan #2	233.5	233.5	13.1	12.4	17.323	CC, ES
PUCKETT 23B-12 F12 - OH - Plan #2	400.0	399.1	17.3	15.8	11.751	SF
PUCKETT 32C-12 F12 - OH - PLAN #1	233.4	233.4	65.1	64.3	85.983	CC, ES
PUCKETT 32C-12 F12 - OH - PLAN #1	600.0	581.7	114.6	111.8	41.149	SF
PUCKETT 32D-12 F12 - OH - Plan #2	300.0	300.0	49.1	48.0	46.460	CC, ES
PUCKETT 32D-12 F12 - OH - Plan #2	500.0	494.0	67.3	65.2	31.669	SF
PUCKETT 33A-12 F12 - OH - Plan #2	233.7	233.7	41.3	40.5	54.419	CC, ES
PUCKETT 33A-12 F12 - OH - Plan #2	500.0	493.4	63.8	61.7	29.565	SF
PUCKETT 33B-12 F12 - OH - Plan #2	200.0	200.0	25.8	25.2	42.501	CC, ES
PUCKETT 33B-12 F12 - OH - Plan #2	400.0	397.1	36.6	35.0	23.099	SF
PUCKETT SWD F12-797 - OH - PLAN #1	300.0	300.0	71.9	70.8	68.042	CC, ES
PUCKETT SWD F12-797 - OH - PLAN #1	700.0	697.1	107.7	104.4	33.266	SF

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

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 12C-12 F12
Project:	Garfield County, CO	TVD Reference:	30' KB @ 8279.0usft (H&P 330)
Reference Site:	S12-T7S-R97W	MD Reference:	30' KB @ 8279.0usft (H&P 330)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 12C-12 F12	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S12-T7S-R97W - PUCKETT 11C-12 F12 - OH - Plan #2													Offset Site Error:	0.0 usft
Survey Program: 0-ISCSWA MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Between Centres (usft)	Between Ellipses (usft)				Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)
0.0	0.0	0.0	0.0	0.0	0.0	51.16	30.2	37.6	48.2					
100.0	100.0	100.0	100.0	0.1	0.1	51.16	30.2	37.6	48.2	48.1	0.16	306.406		
200.0	200.0	200.0	200.0	0.3	0.3	51.16	30.2	37.6	48.2	47.6	0.61	79.439		
300.0	300.0	300.3	300.3	0.5	0.5	48.05	32.0	35.6	47.9	46.8	1.06	45.147		
313.3	313.3	313.6	313.6	0.6	0.6	137.79	32.5	35.1	47.8	46.7	1.12	42.744 CC, ES		
400.0	400.0	400.2	399.8	0.7	0.8	131.53	37.3	29.8	49.4	47.9	1.55	31.971		
500.0	499.6	499.6	498.3	1.0	1.1	123.95	46.0	20.2	55.4	53.3	2.10	26.338		
600.0	598.8	598.1	595.3	1.3	1.4	117.46	58.0	6.9	65.8	63.1	2.75	23.963		
700.0	697.1	695.8	690.2	1.6	1.8	112.60	73.2	-9.8	80.6	77.1	3.51	22.959		
750.7	746.5	744.9	737.5	1.8	2.1	110.70	82.1	-19.6	89.6	85.6	3.96	22.639		
800.0	794.5	792.3	782.8	2.0	2.4	109.11	91.5	-29.9	99.1	94.7	4.40	22.527		
900.0	891.7	889.4	875.0	2.5	2.9	105.59	112.1	-52.7	119.5	114.2	5.37	22.251		
1,000.0	988.9	987.0	967.5	3.0	3.5	103.02	133.0	-75.6	140.4	134.0	6.37	22.027		
1,100.0	1,086.1	1,084.7	1,060.1	3.4	4.2	101.11	153.8	-98.6	161.5	154.1	7.39	21.854		
1,200.0	1,183.4	1,182.3	1,152.6	3.9	4.8	99.65	174.7	-121.6	182.6	174.2	8.41	21.724		
1,300.0	1,280.6	1,279.9	1,245.2	4.4	5.4	98.49	195.6	-144.6	203.9	194.5	9.43	21.624		
1,400.0	1,377.8	1,377.6	1,337.8	4.9	6.0	97.55	216.4	-167.6	225.3	214.8	10.45	21.547		
1,500.0	1,475.1	1,475.2	1,430.3	5.4	6.7	96.77	237.3	-190.6	246.7	235.2	11.48	21.486		
1,600.0	1,572.3	1,572.8	1,522.9	5.9	7.3	96.12	258.2	-213.6	268.1	255.6	12.51	21.437		
1,700.0	1,669.5	1,670.5	1,615.5	6.4	7.9	95.56	279.1	-236.6	289.6	276.0	13.53	21.397		
1,800.0	1,766.7	1,768.1	1,708.0	6.9	8.6	95.08	299.9	-259.6	311.0	296.5	14.56	21.365		
1,900.0	1,864.0	1,865.7	1,800.6	7.4	9.2	94.66	320.8	-282.6	332.5	317.0	15.58	21.339		
2,000.0	1,961.2	1,963.4	1,893.2	7.9	9.8	94.29	341.7	-305.6	354.0	337.4	16.61	21.317		
2,100.0	2,058.4	2,061.0	1,985.7	8.4	10.5	93.97	362.5	-328.6	375.6	357.9	17.63	21.299		
2,200.0	2,155.7	2,158.6	2,078.3	8.9	11.1	93.68	383.4	-351.6	397.1	378.5	18.66	21.283		
2,300.0	2,252.9	2,256.3	2,170.9	9.4	11.7	93.42	404.3	-374.6	418.7	399.0	19.68	21.271		
2,400.0	2,350.1	2,353.9	2,263.4	9.9	12.4	93.18	425.1	-397.6	440.2	419.5	20.71	21.260		
2,500.0	2,447.3	2,451.5	2,356.0	10.4	13.0	92.97	446.0	-420.5	461.8	440.0	21.73	21.251		
2,600.0	2,544.6	2,549.2	2,448.6	10.9	13.6	92.78	466.9	-443.5	483.3	460.6	22.75	21.244		
2,700.0	2,641.8	2,646.8	2,541.1	11.4	14.3	92.60	487.7	-466.5	504.9	481.1	23.77	21.238		
2,800.0	2,739.0	2,744.4	2,633.7	11.9	14.9	92.44	508.6	-489.5	526.5	501.7	24.80	21.233		
2,900.0	2,836.3	2,842.1	2,726.3	12.4	15.5	92.29	529.5	-512.5	548.1	522.2	25.82	21.229		
3,000.0	2,933.5	2,939.7	2,818.8	12.9	16.2	92.15	550.3	-535.5	569.6	542.8	26.84	21.225		
3,100.0	3,030.7	3,037.3	2,911.4	13.4	16.8	92.02	571.2	-558.5	591.2	563.4	27.86	21.223		
3,200.0	3,127.9	3,135.0	3,004.0	13.9	17.5	91.90	592.1	-581.5	612.8	583.9	28.88	21.221		
3,300.0	3,225.2	3,232.6	3,096.5	14.4	18.1	91.79	613.0	-604.5	634.4	604.5	29.90	21.220		
3,400.0	3,322.4	3,330.3	3,189.1	15.0	18.7	91.69	633.8	-627.5	656.0	625.1	30.92	21.219		
3,500.0	3,419.6	3,427.9	3,281.6	15.5	19.4	91.59	654.7	-650.5	677.6	645.6	31.93	21.219		
3,600.0	3,516.9	3,525.5	3,374.2	16.0	20.0	91.50	675.6	-673.5	699.2	666.2	32.95	21.219		
3,700.0	3,614.1	3,623.2	3,466.8	16.5	20.6	91.41	696.4	-696.5	720.8	686.8	33.97	21.219		
3,800.0	3,711.3	3,720.8	3,559.3	17.0	21.3	91.33	717.3	-719.5	742.4	707.4	34.98	21.220		
3,900.0	3,808.5	3,818.4	3,651.9	17.5	21.9	91.25	738.2	-742.4	764.0	728.0	36.00	21.221		
4,000.0	3,905.8	3,916.1	3,744.5	18.0	22.5	91.18	759.0	-765.4	785.6	748.6	37.02	21.222		
4,100.0	4,003.0	4,013.7	3,837.0	18.5	23.2	91.11	779.9	-788.4	807.2	769.1	38.03	21.224		
4,200.0	4,100.2	4,111.3	3,929.6	19.0	23.8	91.05	800.8	-811.4	828.8	789.7	39.05	21.226		
4,300.0	4,197.4	4,209.0	4,022.2	19.5	24.4	90.99	821.6	-834.4	850.4	810.3	40.06	21.228		
4,400.0	4,294.7	4,306.6	4,114.7	20.0	25.1	90.93	842.5	-857.4	872.0	830.9	41.07	21.230		
4,500.0	4,391.9	4,404.2	4,207.3	20.5	25.7	90.87	863.4	-880.4	893.6	851.5	42.09	21.232		
4,600.0	4,489.1	4,501.9	4,299.9	21.0	26.4	90.82	884.2	-903.4	915.2	872.1	43.10	21.235		
4,700.0	4,586.4	4,599.5	4,392.4	21.5	27.0	90.77	905.1	-926.4	936.8	892.7	44.11	21.238		
4,800.0	4,683.6	4,697.1	4,485.0	22.0	27.6	90.72	926.0	-949.4	958.4	913.3	45.12	21.241		

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

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 12C-12 F12
Project:	Garfield County, CO	TVD Reference:	30' KB @ 8279.0usft (H&P 330)
Reference Site:	S12-T7S-R97W	MD Reference:	30' KB @ 8279.0usft (H&P 330)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 12C-12 F12	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S12-T7S-R97W - PUCKETT 11C-12 F12 - OH - Plan #2													Offset Site Error:	0.0 usft
Survey Program: 0-ISCSWA MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
4,900.0	4,780.8	4,794.8	4,577.6	22.5	28.3	90.68	946.9	-972.4	980.0	933.9	46.13	21.244		
5,000.0	4,878.0	4,892.4	4,670.1	23.0	28.9	90.63	967.7	-995.4	1,001.6	954.5	47.14	21.247		
5,100.0	4,975.3	4,990.0	4,762.7	23.5	29.5	90.59	988.6	-1,018.4	1,023.2	975.1	48.15	21.250		
5,200.0	5,072.5	5,087.7	4,855.3	24.0	30.2	90.55	1,009.5	-1,041.4	1,044.8	995.7	49.16	21.253		
5,300.0	5,169.7	5,185.3	4,947.8	24.5	30.8	90.51	1,030.3	-1,064.4	1,066.5	1,016.3	50.17	21.257		
5,400.0	5,267.0	5,282.9	5,040.4	25.0	31.5	90.47	1,051.2	-1,087.3	1,088.1	1,036.9	51.18	21.260		
5,500.0	5,364.2	5,380.6	5,133.0	25.5	32.1	90.44	1,072.1	-1,110.3	1,109.7	1,057.5	52.19	21.264		
5,600.0	5,461.4	5,478.2	5,225.5	26.0	32.7	90.40	1,092.9	-1,133.3	1,131.3	1,078.1	53.19	21.267		
5,700.0	5,558.6	5,575.8	5,318.1	26.5	33.4	90.37	1,113.8	-1,156.3	1,152.9	1,098.7	54.20	21.271		
5,800.0	5,655.9	5,673.5	5,410.7	27.0	34.0	90.34	1,134.7	-1,179.3	1,174.5	1,119.3	55.21	21.275		
5,900.0	5,753.1	5,771.1	5,503.2	27.5	34.6	90.31	1,155.5	-1,202.3	1,196.1	1,139.9	56.21	21.279		
6,000.0	5,850.3	5,868.8	5,595.8	28.1	35.3	90.28	1,176.4	-1,225.3	1,217.7	1,160.5	57.22	21.283		
6,100.0	5,947.6	5,966.4	5,688.3	28.6	35.9	90.25	1,197.3	-1,248.3	1,239.3	1,181.1	58.22	21.287		
6,192.5	6,037.5	6,056.7	5,773.9	29.0	36.5	90.22	1,216.6	-1,269.6	1,259.3	1,200.2	59.15	21.291		
6,200.0	6,044.8	6,064.0	5,780.9	29.1	36.5	90.27	1,218.1	-1,271.3	1,261.0	1,201.7	59.24	21.287		
6,300.0	6,142.7	6,161.6	5,873.4	29.4	37.2	90.77	1,239.0	-1,294.3	1,282.6	1,222.3	60.25	21.288		
6,400.0	6,241.5	6,278.1	5,984.1	29.7	37.9	90.96	1,263.6	-1,321.4	1,303.9	1,242.8	61.18	21.312		
6,500.0	6,341.0	6,459.5	6,159.6	29.9	38.7	90.76	1,294.2	-1,355.1	1,321.0	1,259.0	61.97	21.316		
6,600.0	6,440.8	6,645.6	6,343.2	30.0	39.2	90.53	1,313.9	-1,376.7	1,331.6	1,269.1	62.48	21.312		
6,643.2	6,484.0	6,726.9	6,424.2	30.1	39.3	-0.17	1,318.6	-1,382.0	1,334.1	1,271.5	62.62	21.306		
6,700.0	6,540.8	6,834.5	6,531.7	30.1	39.5	-0.30	1,321.4	-1,385.1	1,335.6	1,272.9	62.75	21.284		
6,800.0	6,640.8	6,943.6	6,640.8	30.2	39.6	-0.30	1,321.5	-1,385.1	1,335.6	1,272.7	62.95	21.217		
6,900.0	6,740.8	7,043.6	6,740.8	30.3	39.6	-0.30	1,321.5	-1,385.1	1,335.6	1,272.5	63.16	21.148		
7,000.0	6,840.8	7,143.6	6,840.8	30.4	39.7	-0.30	1,321.5	-1,385.1	1,335.6	1,272.3	63.36	21.080		
7,100.0	6,940.8	7,243.6	6,940.8	30.5	39.8	-0.30	1,321.5	-1,385.1	1,335.6	1,272.1	63.57	21.011		
7,200.0	7,040.8	7,343.6	7,040.8	30.6	39.9	-0.30	1,321.5	-1,385.1	1,335.6	1,271.9	63.78	20.941		
7,300.0	7,140.8	7,443.6	7,140.8	30.7	40.0	-0.30	1,321.5	-1,385.1	1,335.6	1,271.7	63.99	20.871		
7,400.0	7,240.8	7,543.6	7,240.8	30.8	40.1	-0.30	1,321.5	-1,385.1	1,335.6	1,271.4	64.21	20.801		
7,500.0	7,340.8	7,643.6	7,340.8	31.0	40.1	-0.30	1,321.5	-1,385.1	1,335.6	1,271.2	64.43	20.731		
7,600.0	7,440.8	7,743.6	7,440.8	31.1	40.2	-0.30	1,321.5	-1,385.1	1,335.6	1,271.0	64.65	20.660		
7,700.0	7,540.8	7,843.6	7,540.8	31.2	40.3	-0.30	1,321.5	-1,385.1	1,335.6	1,270.8	64.87	20.589		
7,800.0	7,640.8	7,943.6	7,640.8	31.3	40.4	-0.30	1,321.5	-1,385.1	1,335.6	1,270.6	65.10	20.518		
7,900.0	7,740.8	8,043.6	7,740.8	31.4	40.5	-0.30	1,321.5	-1,385.1	1,335.6	1,270.3	65.32	20.446		
8,000.0	7,840.8	8,143.6	7,840.8	31.5	40.6	-0.30	1,321.5	-1,385.1	1,335.6	1,270.1	65.55	20.375		
8,100.0	7,940.8	8,243.6	7,940.8	31.6	40.7	-0.30	1,321.5	-1,385.1	1,335.6	1,269.9	65.79	20.303		
8,200.0	8,040.8	8,343.6	8,040.8	31.8	40.8	-0.30	1,321.5	-1,385.1	1,335.6	1,269.6	66.02	20.230		
8,300.0	8,140.8	8,443.6	8,140.8	31.9	40.9	-0.30	1,321.5	-1,385.1	1,335.6	1,269.4	66.26	20.158		
8,400.0	8,240.8	8,543.6	8,240.8	32.0	41.0	-0.30	1,321.5	-1,385.1	1,335.6	1,269.2	66.50	20.086		
8,500.0	8,340.8	8,643.6	8,340.8	32.1	41.1	-0.30	1,321.5	-1,385.1	1,335.6	1,268.9	66.74	20.013		
8,600.0	8,440.8	8,743.6	8,440.8	32.3	41.2	-0.30	1,321.5	-1,385.1	1,335.6	1,268.7	66.98	19.940		
8,680.2	8,521.0	8,823.8	8,521.0	32.3	41.3	-0.30	1,321.5	-1,385.1	1,335.6	1,268.5	67.18	19.882 SF		

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 12C-12 F12
Project:	Garfield County, CO	TVD Reference:	30' KB @ 8279.0usft (H&P 330)
Reference Site:	S12-T7S-R97W	MD Reference:	30' KB @ 8279.0usft (H&P 330)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 12C-12 F12	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S12-T7S-R97W - PUCKETT 11D-12 F12 - OH - Plan #2													Offset Site Error:	0.0 usft
Survey Program: 0-ISCWSA MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	51.27	25.1	31.3	40.2					
100.0	100.0	100.0	100.0	0.1	0.1	51.27	25.1	31.3	40.2	40.0	0.16	255.330		
200.0	200.0	200.0	200.0	0.3	0.3	51.27	25.1	31.3	40.2	39.6	0.61	66.197		
300.0	300.0	300.3	300.3	0.5	0.5	50.37	25.5	30.8	40.0	38.9	1.06	37.859		
328.9	328.9	329.3	329.3	0.6	0.6	139.81	26.0	30.0	39.9	38.7	1.19	33.589 CC, ES		
400.0	400.0	400.8	400.6	0.7	0.8	136.15	28.4	26.4	40.6	39.1	1.53	26.573		
500.0	499.6	501.0	500.3	1.0	1.0	129.79	34.1	17.5	44.2	42.2	2.06	21.515		
600.0	598.8	600.7	598.8	1.3	1.3	123.34	42.7	4.4	51.2	48.5	2.67	19.206		
700.0	697.1	700.0	695.8	1.6	1.7	117.81	53.9	-12.9	61.6	58.2	3.40	18.118		
750.7	746.5	750.0	744.3	1.8	2.0	115.48	60.7	-23.2	68.1	64.3	3.84	17.737		
800.0	794.5	798.4	790.9	2.0	2.2	113.25	67.8	-34.2	75.0	70.7	4.27	17.561		
900.0	891.7	897.1	885.5	2.5	2.7	108.87	83.2	-57.8	89.5	84.3	5.23	17.112		
1,000.0	988.9	995.9	980.2	3.0	3.3	105.71	98.6	-81.4	104.5	98.2	6.23	16.768		
1,100.0	1,086.1	1,094.6	1,074.8	3.4	3.8	103.35	114.0	-105.0	119.6	112.4	7.24	16.516		
1,200.0	1,183.4	1,193.3	1,169.4	3.9	4.4	101.52	129.3	-128.6	135.0	126.7	8.26	16.330		
1,300.0	1,280.6	1,292.1	1,264.1	4.4	5.0	100.06	144.7	-152.2	150.4	141.1	9.29	16.190		
1,400.0	1,377.8	1,390.8	1,358.7	4.9	5.6	98.88	160.1	-175.8	165.9	155.6	10.31	16.084		
1,500.0	1,475.1	1,489.6	1,453.3	5.4	6.1	97.90	175.5	-199.4	181.5	170.1	11.34	16.000		
1,600.0	1,572.3	1,588.3	1,548.0	5.9	6.7	97.07	190.9	-223.0	197.1	184.7	12.37	15.934		
1,700.0	1,669.5	1,687.0	1,642.6	6.4	7.3	96.37	206.3	-246.6	212.7	199.3	13.39	15.881		
1,800.0	1,766.7	1,785.8	1,737.2	6.9	7.9	95.76	221.6	-270.2	228.4	213.9	14.42	15.837		
1,900.0	1,864.0	1,884.5	1,831.9	7.4	8.5	95.23	237.0	-293.8	244.1	228.6	15.45	15.801		
2,000.0	1,961.2	1,983.2	1,926.5	7.9	9.0	94.76	252.4	-317.4	259.8	243.3	16.47	15.771		
2,100.0	2,058.4	2,082.0	2,021.1	8.4	9.6	94.35	267.8	-341.0	275.5	258.0	17.50	15.746		
2,200.0	2,155.7	2,180.7	2,115.8	8.9	10.2	93.98	283.2	-364.6	291.2	272.7	18.52	15.725		
2,300.0	2,252.9	2,279.5	2,210.4	9.4	10.8	93.65	298.5	-388.2	307.0	287.4	19.54	15.706		
2,400.0	2,350.1	2,378.2	2,305.0	9.9	11.4	93.35	313.9	-411.8	322.7	302.2	20.57	15.691		
2,500.0	2,447.3	2,476.9	2,399.7	10.4	12.0	93.08	329.3	-435.4	338.5	316.9	21.59	15.677		
2,600.0	2,544.6	2,575.7	2,494.3	10.9	12.5	92.83	344.7	-459.0	354.3	331.6	22.61	15.666		
2,700.0	2,641.8	2,674.4	2,588.9	11.4	13.1	92.61	360.1	-482.6	370.0	346.4	23.63	15.656		
2,800.0	2,739.0	2,773.1	2,683.6	11.9	13.7	92.40	375.5	-506.2	385.8	361.1	24.66	15.647		
2,900.0	2,836.3	2,871.9	2,778.2	12.4	14.3	92.21	390.8	-529.8	401.6	375.9	25.68	15.640		
3,000.0	2,933.5	2,970.6	2,872.8	12.9	14.9	92.03	406.2	-553.4	417.4	390.7	26.70	15.633		
3,100.0	3,030.7	3,069.4	2,967.5	13.4	15.5	91.87	421.6	-577.0	433.2	405.5	27.72	15.627		
3,200.0	3,127.9	3,168.1	3,062.1	13.9	16.0	91.72	437.0	-600.6	449.0	420.2	28.74	15.622		
3,300.0	3,225.2	3,266.8	3,156.7	14.4	16.6	91.58	452.4	-624.2	464.8	435.0	29.76	15.618		
3,400.0	3,322.4	3,365.6	3,251.4	15.0	17.2	91.44	467.7	-647.8	480.6	449.8	30.78	15.614		
3,500.0	3,419.6	3,464.3	3,346.0	15.5	17.8	91.32	483.1	-671.4	496.4	464.6	31.80	15.611		
3,600.0	3,516.9	3,563.1	3,440.6	16.0	18.4	91.20	498.5	-695.0	512.2	479.4	32.81	15.609		
3,700.0	3,614.1	3,661.8	3,535.3	16.5	19.0	91.09	513.9	-718.6	528.0	494.1	33.83	15.606		
3,800.0	3,711.3	3,760.5	3,629.9	17.0	19.6	90.99	529.3	-742.2	543.8	508.9	34.85	15.604		
3,900.0	3,808.5	3,859.3	3,724.5	17.5	20.1	90.89	544.7	-765.8	559.6	523.7	35.86	15.603		
4,000.0	3,905.8	3,958.0	3,819.2	18.0	20.7	90.80	560.0	-789.4	575.4	538.5	36.88	15.602		
4,100.0	4,003.0	4,056.7	3,913.8	18.5	21.3	90.72	575.4	-813.0	591.2	553.3	37.90	15.601		
4,200.0	4,100.2	4,155.5	4,008.4	19.0	21.9	90.63	590.8	-836.6	607.0	568.1	38.91	15.600		
4,300.0	4,197.4	4,254.2	4,103.1	19.5	22.5	90.56	606.2	-860.2	622.9	582.9	39.93	15.600		
4,400.0	4,294.7	4,353.0	4,197.7	20.0	23.1	90.48	621.6	-883.8	638.7	597.7	40.94	15.599		
4,500.0	4,391.9	4,451.7	4,292.3	20.5	23.6	90.41	636.9	-907.4	654.5	612.5	41.96	15.599		
4,600.0	4,489.1	4,550.4	4,387.0	21.0	24.2	90.34	652.3	-931.1	670.3	627.3	42.97	15.599		
4,700.0	4,586.4	4,649.2	4,481.6	21.5	24.8	90.28	667.7	-954.7	686.1	642.1	43.98	15.599		
4,800.0	4,683.6	4,747.9	4,576.2	22.0	25.4	90.22	683.1	-978.3	701.9	657.0	45.00	15.600		
4,900.0	4,780.8	4,846.6	4,670.9	22.5	26.0	90.16	698.5	-1,001.9	717.8	671.8	46.01	15.600		

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

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 12C-12 F12
Project:	Garfield County, CO	TVD Reference:	30' KB @ 8279.0usft (H&P 330)
Reference Site:	S12-T7S-R97W	MD Reference:	30' KB @ 8279.0usft (H&P 330)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 12C-12 F12	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S12-T7S-R97W - PUCKETT 11D-12 F12 - OH - Plan #2													Offset Site Error: 0.0 usft	
Survey Program: 0-ISCSWA MWD													Offset Well Error: 0.0 usft	
Reference		Offset		Semi Major Axis				Distance					Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor		
5,000.0	4,878.0	4,945.4	4,765.5	23.0	26.6	90.10	713.9	-1,025.5	733.6	686.6	47.02	15.601		
5,100.0	4,975.3	5,044.1	4,860.1	23.5	27.2	90.05	729.2	-1,049.1	749.4	701.4	48.03	15.602		
5,200.0	5,072.5	5,142.9	4,954.8	24.0	27.7	90.00	744.6	-1,072.7	765.2	716.2	49.04	15.603		
5,300.0	5,169.7	5,241.6	5,049.4	24.5	28.3	89.95	760.0	-1,096.3	781.1	731.0	50.06	15.604		
5,400.0	5,267.0	5,340.3	5,144.0	25.0	28.9	89.90	775.4	-1,119.9	796.9	745.8	51.07	15.605		
5,500.0	5,364.2	5,439.1	5,238.7	25.5	29.5	89.85	790.8	-1,143.5	812.7	760.6	52.08	15.606		
5,600.0	5,461.4	5,537.8	5,333.3	26.0	30.1	89.81	806.1	-1,167.1	828.5	775.4	53.09	15.607		
5,700.0	5,558.6	5,636.5	5,427.9	26.5	30.7	89.77	821.5	-1,190.7	844.4	790.3	54.10	15.609		
5,800.0	5,655.9	5,735.3	5,522.6	27.0	31.3	89.73	836.9	-1,214.3	860.2	805.1	55.10	15.610		
5,900.0	5,753.1	5,834.0	5,617.2	27.5	31.8	89.69	852.3	-1,237.9	876.0	819.9	56.11	15.612		
6,000.0	5,850.3	5,932.8	5,711.8	28.1	32.4	89.65	867.7	-1,261.5	891.8	834.7	57.12	15.613		
6,100.0	5,947.6	6,031.5	5,806.5	28.6	33.0	89.61	883.0	-1,285.1	907.7	849.5	58.13	15.615		
6,192.5	6,037.5	6,122.8	5,894.0	29.0	33.6	89.58	897.3	-1,306.9	922.3	863.2	59.06	15.616		
6,200.0	6,044.8	6,130.2	5,901.1	29.1	33.6	89.61	898.4	-1,308.7	923.5	864.4	59.14	15.616		
6,300.0	6,142.7	6,236.4	6,002.9	29.4	34.2	89.86	914.9	-1,333.9	939.3	879.2	60.07	15.637		
6,400.0	6,241.5	6,372.6	6,135.2	29.7	34.8	89.87	932.5	-1,360.9	952.4	891.6	60.86	15.650		
6,500.0	6,341.0	6,510.4	6,271.0	29.9	35.2	89.84	945.0	-1,380.1	961.7	900.2	61.42	15.657		
6,600.0	6,440.8	6,649.2	6,409.2	30.0	35.4	89.75	952.2	-1,391.2	966.9	905.2	61.78	15.650		
6,643.2	6,484.0	6,709.4	6,469.4	30.1	35.5	-0.90	953.6	-1,393.3	968.0	906.1	61.89	15.640		
6,700.0	6,540.8	6,780.9	6,540.8	30.1	35.6	-0.93	954.0	-1,393.9	968.3	906.2	62.00	15.617		
6,800.0	6,640.8	6,880.9	6,640.8	30.2	35.7	-0.93	954.0	-1,393.9	968.3	906.0	62.20	15.566		
6,900.0	6,740.8	6,980.9	6,740.8	30.3	35.8	-0.93	954.0	-1,393.9	968.3	905.8	62.41	15.515		
7,000.0	6,840.8	7,080.9	6,840.8	30.4	35.9	-0.93	954.0	-1,393.9	968.3	905.6	62.62	15.463		
7,100.0	6,940.8	7,180.9	6,940.8	30.5	36.0	-0.93	954.0	-1,393.9	968.3	905.4	62.83	15.411		
7,200.0	7,040.8	7,280.9	7,040.8	30.6	36.0	-0.93	954.0	-1,393.9	968.3	905.2	63.04	15.359		
7,300.0	7,140.8	7,380.9	7,140.8	30.7	36.1	-0.93	954.0	-1,393.9	968.3	905.0	63.26	15.307		
7,400.0	7,240.8	7,480.9	7,240.8	30.8	36.2	-0.93	954.0	-1,393.9	968.3	904.8	63.47	15.254		
7,500.0	7,340.8	7,580.9	7,340.8	31.0	36.3	-0.93	954.0	-1,393.9	968.3	904.6	63.69	15.201		
7,600.0	7,440.8	7,680.9	7,440.8	31.1	36.4	-0.93	954.0	-1,393.9	968.3	904.3	63.92	15.148		
7,700.0	7,540.8	7,780.9	7,540.8	31.2	36.5	-0.93	954.0	-1,393.9	968.3	904.1	64.14	15.095		
7,800.0	7,640.8	7,880.9	7,640.8	31.3	36.6	-0.93	954.0	-1,393.9	968.3	903.9	64.37	15.042		
7,900.0	7,740.8	7,980.9	7,740.8	31.4	36.7	-0.93	954.0	-1,393.9	968.3	903.6	64.60	14.988		
8,000.0	7,840.8	8,080.9	7,840.8	31.5	36.8	-0.93	954.0	-1,393.9	968.3	903.4	64.83	14.934		
8,100.0	7,940.8	8,180.9	7,940.8	31.6	36.9	-0.93	954.0	-1,393.9	968.3	903.2	65.07	14.881		
8,200.0	8,040.8	8,280.9	8,040.8	31.8	37.1	-0.93	954.0	-1,393.9	968.3	902.9	65.31	14.827		
8,300.0	8,140.8	8,380.9	8,140.8	31.9	37.2	-0.93	954.0	-1,393.9	968.3	902.7	65.54	14.772		
8,400.0	8,240.8	8,480.9	8,240.8	32.0	37.3	-0.93	954.0	-1,393.9	968.3	902.5	65.79	14.718		
8,500.0	8,340.8	8,580.9	8,340.8	32.1	37.4	-0.93	954.0	-1,393.9	968.3	902.2	66.03	14.664		
8,600.0	8,440.8	8,680.9	8,440.8	32.3	37.5	-0.93	954.0	-1,393.9	968.3	902.0	66.28	14.609		
8,680.2	8,521.0	8,761.1	8,521.0	32.3	37.6	-0.93	954.0	-1,393.9	968.3	901.8	66.47	14.566 SF		

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 12C-12 F12
Project:	Garfield County, CO	TVD Reference:	30' KB @ 8279.0usft (H&P 330)
Reference Site:	S12-T7S-R97W	MD Reference:	30' KB @ 8279.0usft (H&P 330)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 12C-12 F12	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S12-T7S-R97W - PUCKETT 12A-12 F12 - OH - Plan #2													Offset Site Error:	0.0 usft
Survey Program: 0-ISCSWA MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
0.0	0.0	0.0	0.0	0.0	0.0	51.29	14.9	18.6	23.9					
100.0	100.0	100.0	100.0	0.1	0.1	51.29	14.9	18.6	23.9	23.7	0.16	151.779		
200.0	200.0	200.0	200.0	0.3	0.3	51.29	14.9	18.6	23.9	23.3	0.61	39.350		
300.0	300.0	300.4	300.4	0.5	0.5	45.30	16.1	16.3	22.9	21.8	1.06	21.633		
351.3	351.3	351.8	351.7	0.6	0.7	128.92	17.6	13.2	22.4	21.1	1.30	17.302 CC, ES		
400.0	400.0	400.5	400.2	0.7	0.8	121.66	19.6	9.2	22.9	21.3	1.53	14.944		
500.0	499.6	500.2	499.0	1.0	1.1	107.73	25.3	-2.5	26.6	24.6	2.06	12.892		
600.0	598.8	599.5	596.6	1.3	1.4	98.00	33.2	-18.7	33.9	31.2	2.70	12.547		
700.0	697.1	698.1	692.5	1.6	1.9	92.35	43.3	-39.4	44.1	40.6	3.48	12.680		
750.7	746.5	748.4	741.0	1.8	2.1	91.02	49.1	-51.2	50.0	46.1	3.92	12.756		
800.0	794.5	797.4	788.3	2.0	2.4	90.80	54.8	-62.7	55.8	51.4	4.38	12.756		
900.0	891.7	896.7	884.1	2.5	2.9	90.47	66.2	-86.1	67.6	62.3	5.33	12.690		
1,000.0	988.9	996.0	979.9	3.0	3.4	90.23	77.7	-109.5	79.4	73.1	6.30	12.599		
1,100.0	1,086.1	1,095.3	1,075.7	3.4	3.9	90.06	89.2	-132.9	91.2	83.9	7.29	12.510		
1,200.0	1,183.4	1,194.6	1,171.6	3.9	4.5	89.93	100.6	-156.3	102.9	94.6	8.28	12.430		
1,300.0	1,280.6	1,293.9	1,267.4	4.4	5.0	89.82	112.1	-179.7	114.7	105.4	9.28	12.359		
1,400.0	1,377.8	1,393.2	1,363.2	4.9	5.6	89.73	123.5	-203.1	126.5	116.2	10.29	12.298		
1,500.0	1,475.1	1,492.5	1,459.0	5.4	6.1	89.66	135.0	-226.5	138.3	127.0	11.29	12.244		
1,600.0	1,572.3	1,591.8	1,554.9	5.9	6.6	89.60	146.4	-249.9	150.1	137.8	12.30	12.198		
1,700.0	1,669.5	1,691.1	1,650.7	6.4	7.2	89.55	157.9	-273.3	161.8	148.5	13.31	12.157		
1,800.0	1,766.7	1,790.4	1,746.5	6.9	7.7	89.50	169.4	-296.7	173.6	159.3	14.32	12.121		
1,900.0	1,864.0	1,889.7	1,842.3	7.4	8.3	89.46	180.8	-320.1	185.4	170.1	15.34	12.089		
2,000.0	1,961.2	1,989.0	1,938.2	7.9	8.8	89.43	192.3	-343.5	197.2	180.8	16.35	12.061		
2,100.0	2,058.4	2,088.3	2,034.0	8.4	9.4	89.40	203.7	-366.9	209.0	191.6	17.36	12.035		
2,200.0	2,155.7	2,187.6	2,129.8	8.9	9.9	89.37	215.2	-390.3	220.7	202.4	18.38	12.013		
2,300.0	2,252.9	2,286.9	2,225.6	9.4	10.5	89.35	226.6	-413.7	232.5	213.1	19.39	11.992		
2,400.0	2,350.1	2,386.2	2,321.5	9.9	11.0	89.33	238.1	-437.1	244.3	223.9	20.40	11.974		
2,500.0	2,447.3	2,485.5	2,417.3	10.4	11.6	89.31	249.6	-460.5	256.1	234.7	21.42	11.957		
2,600.0	2,544.6	2,584.8	2,513.1	10.9	12.1	89.29	261.0	-483.9	267.9	245.4	22.43	11.942		
2,700.0	2,641.8	2,684.1	2,608.9	11.4	12.6	89.27	272.5	-507.3	279.6	256.2	23.45	11.928		
2,800.0	2,739.0	2,783.4	2,704.8	11.9	13.2	89.26	283.9	-530.7	291.4	267.0	24.46	11.915		
2,900.0	2,836.3	2,882.7	2,800.6	12.4	13.7	89.24	295.4	-554.1	303.2	277.7	25.47	11.903		
3,000.0	2,933.5	2,982.0	2,896.4	12.9	14.3	89.23	306.9	-577.4	315.0	288.5	26.49	11.892		
3,100.0	3,030.7	3,081.3	2,992.2	13.4	14.8	89.22	318.3	-600.8	326.8	299.3	27.50	11.883		
3,200.0	3,127.9	3,180.6	3,088.1	13.9	15.4	89.20	329.8	-624.2	338.6	310.0	28.51	11.873		
3,300.0	3,225.2	3,279.9	3,183.9	14.4	15.9	89.19	341.2	-647.6	350.3	320.8	29.53	11.865		
3,400.0	3,322.4	3,379.2	3,279.7	15.0	16.5	89.18	352.7	-671.0	362.1	331.6	30.54	11.857		
3,500.0	3,419.6	3,478.5	3,375.5	15.5	17.0	89.17	364.1	-694.4	373.9	342.3	31.55	11.850		
3,600.0	3,516.9	3,577.8	3,471.4	16.0	17.6	89.17	375.6	-717.8	385.7	353.1	32.57	11.843		
3,700.0	3,614.1	3,677.2	3,567.2	16.5	18.1	89.16	387.1	-741.2	397.5	363.9	33.58	11.837		
3,800.0	3,711.3	3,776.5	3,663.0	17.0	18.7	89.15	398.5	-764.6	409.2	374.7	34.59	11.831		
3,900.0	3,808.5	3,875.8	3,758.8	17.5	19.2	89.14	410.0	-788.0	421.0	385.4	35.60	11.826		
4,000.0	3,905.8	3,975.1	3,854.7	18.0	19.8	89.14	421.4	-811.4	432.8	396.2	36.61	11.821		
4,100.0	4,003.0	4,074.4	3,950.5	18.5	20.3	89.13	432.9	-834.8	444.6	407.0	37.63	11.816		
4,200.0	4,100.2	4,173.7	4,046.3	19.0	20.9	89.12	444.3	-858.2	456.4	417.7	38.64	11.812		
4,300.0	4,197.4	4,273.0	4,142.1	19.5	21.4	89.12	455.8	-881.6	468.2	428.5	39.65	11.808		
4,400.0	4,294.7	4,372.3	4,238.0	20.0	21.9	89.11	467.3	-905.0	479.9	439.3	40.66	11.804		
4,500.0	4,391.9	4,471.6	4,333.8	20.5	22.5	89.11	478.7	-928.4	491.7	450.0	41.67	11.800		
4,600.0	4,489.1	4,570.9	4,429.6	21.0	23.0	89.10	490.2	-951.8	503.5	460.8	42.68	11.797		
4,700.0	4,586.4	4,670.2	4,525.4	21.5	23.6	89.10	501.6	-975.2	515.3	471.6	43.69	11.794		
4,800.0	4,683.6	4,769.5	4,621.3	22.0	24.1	89.09	513.1	-998.6	527.1	482.4	44.70	11.791		
4,900.0	4,780.8	4,868.8	4,717.1	22.5	24.7	89.09	524.6	-1,022.0	538.8	493.1	45.71	11.788		

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

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 12C-12 F12
Project:	Garfield County, CO	TVD Reference:	30' KB @ 8279.0usft (H&P 330)
Reference Site:	S12-T7S-R97W	MD Reference:	30' KB @ 8279.0usft (H&P 330)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 12C-12 F12	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S12-T7S-R97W - PUCKETT 12A-12 F12 - OH - Plan #2													Offset Site Error: 0.0 usft	
Survey Program: 0-ISCSWA MWD													Offset Well Error: 0.0 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor		
5,000.0	4,878.0	4,968.1	4,812.9	23.0	25.2	89.08	536.0	-1,045.4	550.6	503.9	46.72	11.786		
5,100.0	4,975.3	5,067.4	4,908.8	23.5	25.8	89.08	547.5	-1,068.8	562.4	514.7	47.73	11.783		
5,200.0	5,072.5	5,166.7	5,004.6	24.0	26.3	89.07	558.9	-1,092.2	574.2	525.5	48.74	11.781		
5,300.0	5,169.7	5,266.0	5,100.4	24.5	26.9	89.07	570.4	-1,115.6	586.0	536.2	49.75	11.779		
5,400.0	5,267.0	5,365.3	5,196.2	25.0	27.4	89.07	581.8	-1,139.0	597.8	547.0	50.75	11.777		
5,500.0	5,364.2	5,464.6	5,292.1	25.5	28.0	89.06	593.3	-1,162.4	609.5	557.8	51.76	11.776		
5,600.0	5,461.4	5,563.9	5,387.9	26.0	28.5	89.06	604.8	-1,185.7	621.3	568.5	52.77	11.774		
5,700.0	5,558.6	5,663.2	5,483.7	26.5	29.1	89.06	616.2	-1,209.1	633.1	579.3	53.78	11.773		
5,800.0	5,655.9	5,762.5	5,579.5	27.0	29.6	89.05	627.7	-1,232.5	644.9	590.1	54.78	11.771		
5,900.0	5,753.1	5,861.8	5,675.4	27.5	30.2	89.05	639.1	-1,255.9	656.7	600.9	55.79	11.770		
6,000.0	5,850.3	5,961.1	5,771.2	28.1	30.7	89.05	650.6	-1,279.3	668.4	611.6	56.80	11.769		
6,100.0	5,947.6	6,060.4	5,867.0	28.6	31.3	89.05	662.0	-1,302.7	680.2	622.4	57.80	11.768		
6,192.5	6,037.5	6,152.3	5,955.6	29.0	31.8	89.04	672.6	-1,324.4	691.1	632.4	58.73	11.767		
6,200.0	6,044.8	6,159.7	5,962.8	29.1	31.8	89.07	673.5	-1,326.1	692.0	633.2	58.81	11.767		
6,300.0	6,142.7	6,273.1	6,072.6	29.4	32.3	89.25	685.8	-1,351.2	703.1	643.5	59.63	11.791		
6,400.0	6,241.5	6,392.9	6,190.3	29.7	32.7	89.35	695.7	-1,371.5	711.6	651.4	60.29	11.804		
6,500.0	6,341.0	6,513.2	6,309.7	29.9	33.0	89.41	702.5	-1,385.2	717.3	656.6	60.77	11.804		
6,600.0	6,440.8	6,634.0	6,430.1	30.0	33.2	89.41	705.8	-1,392.2	720.2	659.1	61.09	11.790		
6,643.2	6,484.0	6,686.2	6,482.3	30.1	33.2	-1.19	706.3	-1,393.0	720.6	659.4	61.18	11.777		
6,700.0	6,540.8	6,744.7	6,540.8	30.1	33.3	-1.19	706.3	-1,393.1	720.6	659.3	61.30	11.756		
6,800.0	6,640.8	6,844.7	6,640.8	30.2	33.4	-1.19	706.3	-1,393.1	720.6	659.1	61.50	11.717		
6,900.0	6,740.8	6,944.7	6,740.8	30.3	33.5	-1.19	706.3	-1,393.1	720.6	658.9	61.71	11.678		
7,000.0	6,840.8	7,044.7	6,840.8	30.4	33.6	-1.19	706.3	-1,393.1	720.6	658.7	61.92	11.638		
7,100.0	6,940.8	7,144.7	6,940.8	30.5	33.7	-1.19	706.3	-1,393.1	720.6	658.5	62.13	11.598		
7,200.0	7,040.8	7,244.7	7,040.8	30.6	33.8	-1.19	706.3	-1,393.1	720.6	658.3	62.34	11.558		
7,300.0	7,140.8	7,344.7	7,140.8	30.7	33.9	-1.19	706.3	-1,393.1	720.6	658.0	62.56	11.518		
7,400.0	7,240.8	7,444.7	7,240.8	30.8	34.0	-1.19	706.3	-1,393.1	720.6	657.8	62.78	11.478		
7,500.0	7,340.8	7,544.7	7,340.8	31.0	34.1	-1.19	706.3	-1,393.1	720.6	657.6	63.00	11.437		
7,600.0	7,440.8	7,644.7	7,440.8	31.1	34.2	-1.19	706.3	-1,393.1	720.6	657.4	63.23	11.397		
7,700.0	7,540.8	7,744.7	7,540.8	31.2	34.3	-1.19	706.3	-1,393.1	720.6	657.1	63.46	11.356		
7,800.0	7,640.8	7,844.7	7,640.8	31.3	34.4	-1.19	706.3	-1,393.1	720.6	656.9	63.69	11.315		
7,900.0	7,740.8	7,944.7	7,740.8	31.4	34.5	-1.19	706.3	-1,393.1	720.6	656.7	63.92	11.274		
8,000.0	7,840.8	8,044.7	7,840.8	31.5	34.6	-1.19	706.3	-1,393.1	720.6	656.4	64.15	11.233		
8,100.0	7,940.8	8,144.7	7,940.8	31.6	34.7	-1.19	706.3	-1,393.1	720.6	656.2	64.39	11.192		
8,200.0	8,040.8	8,244.7	8,040.8	31.8	34.8	-1.19	706.3	-1,393.1	720.6	656.0	64.63	11.150		
8,300.0	8,140.8	8,344.7	8,140.8	31.9	34.9	-1.19	706.3	-1,393.1	720.6	655.7	64.87	11.109		
8,400.0	8,240.8	8,444.7	8,240.8	32.0	35.1	-1.19	706.3	-1,393.1	720.6	655.5	65.11	11.067		
8,500.0	8,340.8	8,544.7	8,340.8	32.1	35.2	-1.19	706.3	-1,393.1	720.6	655.2	65.36	11.026		
8,600.0	8,440.8	8,644.7	8,440.8	32.3	35.3	-1.19	706.3	-1,393.1	720.6	655.0	65.60	10.984		
8,680.2	8,521.0	8,724.9	8,521.0	32.3	35.4	-1.19	706.3	-1,393.1	720.6	654.8	65.80	10.951 SF		

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 12C-12 F12
Project:	Garfield County, CO	TVD Reference:	30' KB @ 8279.0usft (H&P 330)
Reference Site:	S12-T7S-R97W	MD Reference:	30' KB @ 8279.0usft (H&P 330)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 12C-12 F12	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S12-T7S-R97W - PUCKETT 12B-12 F12 - OH - Plan #2													Offset Site Error:	0.0 usft
Survey Program: 0-ISCSWA MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Uncertainty Axis	Factor		
0.0	0.0	0.0	0.0	0.0	0.0	50.62	10.2	12.4	16.1					
100.0	100.0	100.0	100.0	0.1	0.1	50.62	10.2	12.4	16.1	15.9	0.16	102.158		
200.0	200.0	200.0	200.0	0.3	0.3	50.62	10.2	12.4	16.1	15.5	0.61	26.485		
300.0	300.0	300.2	300.2	0.5	0.5	48.63	10.4	11.8	15.7	14.7	1.05	14.911		
384.5	384.4	385.0	384.9	0.7	0.7	130.70	11.5	7.8	15.1	13.6	1.44	10.477 CC		
400.0	400.0	400.6	400.4	0.7	0.8	128.83	11.8	6.7	15.1	13.6	1.51	9.994 ES		
500.0	499.6	500.7	500.0	1.0	1.0	116.12	14.7	-3.4	16.5	14.4	2.01	8.180		
600.0	598.8	600.7	598.7	1.3	1.3	105.13	19.1	-18.4	20.0	17.4	2.61	7.661		
700.0	697.1	700.3	696.2	1.6	1.7	97.59	24.8	-38.4	25.5	22.1	3.35	7.605		
750.7	746.5	750.9	745.2	1.8	2.0	95.27	28.2	-50.2	28.9	25.1	3.79	7.625		
800.0	794.5	800.0	792.8	2.0	2.2	94.44	31.5	-61.8	32.4	28.1	4.24	7.632		
900.0	891.7	899.8	889.5	2.5	2.7	93.21	38.3	-85.5	39.4	34.2	5.18	7.596		
1,000.0	988.9	999.5	986.2	3.0	3.2	92.35	45.1	-109.1	46.4	40.3	6.15	7.543		
1,100.0	1,086.1	1,099.3	1,082.9	3.4	3.7	91.71	51.9	-132.7	53.4	46.3	7.13	7.491		
1,200.0	1,183.4	1,199.0	1,179.5	3.9	4.2	91.23	58.7	-156.3	60.5	52.4	8.13	7.444		
1,300.0	1,280.6	1,298.8	1,276.2	4.4	4.7	90.84	65.5	-180.0	67.5	58.4	9.12	7.403		
1,400.0	1,377.8	1,398.5	1,372.9	4.9	5.2	90.53	72.3	-203.6	74.6	64.5	10.12	7.368		
1,500.0	1,475.1	1,498.3	1,469.6	5.4	5.7	90.27	79.1	-227.2	81.6	70.5	11.13	7.337		
1,600.0	1,572.3	1,598.0	1,566.2	5.9	6.3	90.06	85.9	-250.9	88.7	76.6	12.13	7.310		
1,700.0	1,669.5	1,697.8	1,662.9	6.4	6.8	89.87	92.7	-274.5	95.7	82.6	13.14	7.287		
1,800.0	1,766.7	1,797.5	1,759.6	6.9	7.3	89.71	99.5	-298.1	102.8	88.7	14.15	7.266		
1,900.0	1,864.0	1,897.3	1,856.2	7.4	7.8	89.57	106.3	-321.7	109.9	94.7	15.16	7.248		
2,000.0	1,961.2	1,997.0	1,952.9	7.9	8.3	89.45	113.1	-345.4	116.9	100.8	16.17	7.232		
2,100.0	2,058.4	2,096.8	2,049.6	8.4	8.9	89.34	119.9	-369.0	124.0	106.8	17.18	7.218		
2,200.0	2,155.7	2,196.5	2,146.3	8.9	9.4	89.25	126.7	-392.6	131.0	112.8	18.19	7.205		
2,300.0	2,252.9	2,296.3	2,242.9	9.4	9.9	89.16	133.5	-416.3	138.1	118.9	19.20	7.193		
2,400.0	2,350.1	2,396.0	2,339.6	9.9	10.4	89.08	140.3	-439.9	145.1	124.9	20.21	7.182		
2,500.0	2,447.3	2,495.8	2,436.3	10.4	10.9	89.01	147.0	-463.5	152.2	131.0	21.22	7.172		
2,600.0	2,544.6	2,595.5	2,533.0	10.9	11.5	88.94	153.8	-487.1	159.3	137.0	22.23	7.164		
2,700.0	2,641.8	2,695.3	2,629.6	11.4	12.0	88.88	160.6	-510.8	166.3	143.1	23.24	7.156		
2,800.0	2,739.0	2,795.0	2,726.3	11.9	12.5	88.83	167.4	-534.4	173.4	149.1	24.26	7.148		
2,900.0	2,836.3	2,894.8	2,823.0	12.4	13.0	88.78	174.2	-558.0	180.4	155.2	25.27	7.141		
3,000.0	2,933.5	2,994.5	2,919.6	12.9	13.5	88.73	181.0	-581.7	187.5	161.2	26.28	7.135		
3,100.0	3,030.7	3,094.3	3,016.3	13.4	14.1	88.69	187.8	-605.3	194.6	167.3	27.29	7.129		
3,200.0	3,127.9	3,194.0	3,113.0	13.9	14.6	88.65	194.6	-628.9	201.6	173.3	28.30	7.124		
3,300.0	3,225.2	3,293.8	3,209.7	14.4	15.1	88.61	201.4	-652.5	208.7	179.4	29.31	7.119		
3,400.0	3,322.4	3,393.5	3,306.3	15.0	15.6	88.58	208.2	-676.2	215.7	185.4	30.32	7.114		
3,500.0	3,419.6	3,493.3	3,403.0	15.5	16.2	88.55	215.0	-699.8	222.8	191.5	31.34	7.110		
3,600.0	3,516.9	3,593.0	3,499.7	16.0	16.7	88.52	221.8	-723.4	229.9	197.5	32.35	7.106		
3,700.0	3,614.1	3,692.8	3,596.4	16.5	17.2	88.49	228.6	-747.1	236.9	203.6	33.36	7.102		
3,800.0	3,711.3	3,792.6	3,693.0	17.0	17.7	88.46	235.4	-770.7	244.0	209.6	34.37	7.099		
3,900.0	3,808.5	3,892.3	3,789.7	17.5	18.2	88.43	242.2	-794.3	251.0	215.7	35.38	7.095		
4,000.0	3,905.8	3,992.1	3,886.4	18.0	18.8	88.41	249.0	-817.9	258.1	221.7	36.39	7.092		
4,100.0	4,003.0	4,091.8	3,983.1	18.5	19.3	88.39	255.8	-841.6	265.2	227.8	37.40	7.090		
4,200.0	4,100.2	4,191.6	4,079.7	19.0	19.8	88.36	262.5	-865.2	272.2	233.8	38.41	7.087		
4,300.0	4,197.4	4,291.3	4,176.4	19.5	20.3	88.34	269.3	-888.8	279.3	239.9	39.42	7.084		
4,400.0	4,294.7	4,391.1	4,273.1	20.0	20.9	88.32	276.1	-912.5	286.3	245.9	40.43	7.082		
4,500.0	4,391.9	4,490.8	4,369.7	20.5	21.4	88.31	282.9	-936.1	293.4	252.0	41.44	7.080		
4,600.0	4,489.1	4,590.6	4,466.4	21.0	21.9	88.29	289.7	-959.7	300.5	258.0	42.45	7.078		
4,700.0	4,586.4	4,690.3	4,563.1	21.5	22.4	88.27	296.5	-983.3	307.5	264.1	43.46	7.076		
4,800.0	4,683.6	4,790.1	4,659.8	22.0	22.9	88.25	303.3	-1,007.0	314.6	270.1	44.47	7.074		
4,900.0	4,780.8	4,889.8	4,756.4	22.5	23.5	88.24	310.1	-1,030.6	321.6	276.2	45.48	7.072		

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

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 12C-12 F12
Project:	Garfield County, CO	TVD Reference:	30' KB @ 8279.0usft (H&P 330)
Reference Site:	S12-T7S-R97W	MD Reference:	30' KB @ 8279.0usft (H&P 330)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 12C-12 F12	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S12-T7S-R97W - PUCKETT 12B-12 F12 - OH - Plan #2													Offset Site Error: 0.0 usft	
Survey Program: 0-ISCSWA MWD													Offset Well Error: 0.0 usft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor		
5,000.0	4,878.0	4,989.6	4,853.1	23.0	24.0	88.22	316.9	-1,054.2	328.7	282.2	46.49	7.070		
5,100.0	4,975.3	5,089.3	4,949.8	23.5	24.5	88.21	323.7	-1,077.9	335.8	288.3	47.50	7.069		
5,200.0	5,072.5	5,189.1	5,046.5	24.0	25.0	88.20	330.5	-1,101.5	342.8	294.3	48.51	7.067		
5,300.0	5,169.7	5,288.8	5,143.1	24.5	25.6	88.18	337.3	-1,125.1	349.9	300.4	49.52	7.066		
5,400.0	5,267.0	5,388.6	5,239.8	25.0	26.1	88.17	344.1	-1,148.7	356.9	306.4	50.53	7.064		
5,500.0	5,364.2	5,488.3	5,336.5	25.5	26.6	88.16	350.9	-1,172.4	364.0	312.5	51.53	7.063		
5,600.0	5,461.4	5,588.1	5,433.1	26.0	27.1	88.15	357.7	-1,196.0	371.1	318.5	52.54	7.062		
5,700.0	5,558.6	5,687.8	5,529.8	26.5	27.7	88.14	364.5	-1,219.6	378.1	324.6	53.55	7.061		
5,800.0	5,655.9	5,787.6	5,626.5	27.0	28.2	88.12	371.3	-1,243.3	385.2	330.6	54.56	7.060		
5,900.0	5,753.1	5,887.3	5,723.2	27.5	28.7	88.11	378.0	-1,266.9	392.2	336.7	55.57	7.059		
6,000.0	5,850.3	5,987.1	5,819.8	28.1	29.2	88.10	384.8	-1,290.5	399.3	342.7	56.57	7.058		
6,100.0	5,947.6	6,086.8	5,916.5	28.6	29.7	88.09	391.6	-1,314.1	406.4	348.8	57.58	7.057		
6,192.5	6,037.5	6,179.0	6,005.9	29.0	30.2	88.09	397.9	-1,336.0	412.9	354.4	58.51	7.056		
6,200.0	6,044.8	6,186.6	6,013.2	29.1	30.3	88.10	398.4	-1,337.8	413.4	354.8	58.59	7.057		
6,300.0	6,142.7	6,292.6	6,116.5	29.4	30.7	88.14	405.1	-1,360.8	419.9	360.5	59.38	7.072		
6,400.0	6,241.5	6,400.0	6,222.2	29.7	31.1	88.13	410.1	-1,378.5	424.9	364.9	59.96	7.086		
6,500.0	6,341.0	6,507.5	6,329.0	29.9	31.3	88.10	413.6	-1,390.5	428.2	367.8	60.39	7.091		
6,600.0	6,440.8	6,615.2	6,436.5	30.0	31.5	88.04	415.4	-1,396.7	430.0	369.3	60.68	7.086		
6,643.2	6,484.0	6,661.7	6,483.0	30.1	31.5	-2.59	415.6	-1,397.6	430.2	369.5	60.76	7.080		
6,700.0	6,540.8	6,719.5	6,540.8	30.1	31.6	-2.59	415.6	-1,397.6	430.2	369.4	60.87	7.068		
6,800.0	6,640.8	6,819.5	6,640.8	30.2	31.7	-2.59	415.6	-1,397.6	430.2	369.2	61.08	7.044		
6,900.0	6,740.8	6,919.5	6,740.8	30.3	31.8	-2.59	415.6	-1,397.6	430.2	368.9	61.28	7.020		
7,000.0	6,840.8	7,019.5	6,840.8	30.4	31.9	-2.59	415.6	-1,397.6	430.2	368.7	61.49	6.996		
7,100.0	6,940.8	7,119.5	6,940.8	30.5	32.0	-2.59	415.6	-1,397.6	430.2	368.5	61.71	6.972		
7,200.0	7,040.8	7,219.5	7,040.8	30.6	32.1	-2.59	415.6	-1,397.6	430.2	368.3	61.92	6.948		
7,300.0	7,140.8	7,319.5	7,140.8	30.7	32.2	-2.59	415.6	-1,397.6	430.2	368.1	62.14	6.924		
7,400.0	7,240.8	7,419.5	7,240.8	30.8	32.3	-2.59	415.6	-1,397.6	430.2	367.9	62.36	6.899		
7,500.0	7,340.8	7,519.5	7,340.8	31.0	32.4	-2.59	415.6	-1,397.6	430.2	367.7	62.58	6.875		
7,600.0	7,440.8	7,619.5	7,440.8	31.1	32.5	-2.59	415.6	-1,397.6	430.2	367.4	62.80	6.850		
7,700.0	7,540.8	7,719.5	7,540.8	31.2	32.6	-2.59	415.6	-1,397.6	430.2	367.2	63.03	6.826		
7,800.0	7,640.8	7,819.5	7,640.8	31.3	32.7	-2.59	415.6	-1,397.6	430.2	367.0	63.26	6.801		
7,900.0	7,740.8	7,919.5	7,740.8	31.4	32.8	-2.59	415.6	-1,397.6	430.2	366.7	63.49	6.776		
8,000.0	7,840.8	8,019.5	7,840.8	31.5	33.0	-2.59	415.6	-1,397.6	430.2	366.5	63.73	6.751		
8,100.0	7,940.8	8,119.5	7,940.8	31.6	33.1	-2.59	415.6	-1,397.6	430.2	366.3	63.96	6.726		
8,200.0	8,040.8	8,219.5	8,040.8	31.8	33.2	-2.59	415.6	-1,397.6	430.2	366.0	64.20	6.701		
8,300.0	8,140.8	8,319.5	8,140.8	31.9	33.3	-2.59	415.6	-1,397.6	430.2	365.8	64.44	6.676		
8,400.0	8,240.8	8,419.5	8,240.8	32.0	33.4	-2.59	415.6	-1,397.6	430.2	365.5	64.69	6.651		
8,500.0	8,340.8	8,519.5	8,340.8	32.1	33.6	-2.59	415.6	-1,397.6	430.2	365.3	64.93	6.626		
8,600.0	8,440.8	8,619.5	8,440.8	32.3	33.7	-2.59	415.6	-1,397.6	430.2	365.1	65.18	6.601		
8,680.2	8,521.0	8,699.7	8,521.0	32.3	33.8	-2.59	415.6	-1,397.6	430.2	364.9	65.38	6.580 SF		

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 12C-12 F12
Project:	Garfield County, CO	TVD Reference:	30' KB @ 8279.0usft (H&P 330)
Reference Site:	S12-T7S-R97W	MD Reference:	30' KB @ 8279.0usft (H&P 330)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 12C-12 F12	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S12-T7S-R97W - PUCKETT 12D-12 F12 - OH - Plan #2													Offset Site Error:	0.0 usft
Survey Program: 0-ISCSWA MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-128.14	-5.1	-6.5	8.3					
100.0	100.0	100.0	100.0	0.1	0.1	-128.14	-5.1	-6.5	8.3	8.1	0.16	52.478		
200.0	200.0	200.0	200.0	0.3	0.3	-128.14	-5.1	-6.5	8.3	7.6	0.61	13.606		
233.7	233.7	233.7	233.7	0.4	0.4	-128.14	-5.1	-6.5	8.3	7.5	0.76	10.887	CC, ES	
300.0	300.0	299.8	299.8	0.5	0.5	-126.47	-5.3	-7.1	8.9	7.8	1.05	8.449		
400.0	400.0	399.3	399.1	0.7	0.7	-33.90	-6.6	-12.1	11.6	10.1	1.51	7.657		
500.0	499.6	498.6	497.9	1.0	1.0	-37.14	-9.2	-22.1	14.9	12.9	2.03	7.351		
600.0	598.8	597.7	595.8	1.3	1.3	-42.48	-13.1	-37.0	18.9	16.3	2.58	7.331		
700.0	697.1	696.6	692.5	1.6	1.7	-48.31	-18.3	-56.8	23.8	20.6	3.21	7.416		
750.7	746.5	747.1	741.5	1.8	1.9	-51.62	-21.4	-68.4	26.4	22.9	3.59	7.375		
800.0	794.5	796.3	789.3	2.0	2.2	-55.29	-24.4	-79.8	28.7	24.8	3.95	7.271		
900.0	891.7	896.1	886.2	2.5	2.6	-61.14	-30.5	-102.9	33.7	28.9	4.79	7.023		
1,000.0	988.9	995.9	983.2	3.0	3.1	-65.47	-36.6	-126.0	38.9	33.1	5.71	6.803		
1,100.0	1,086.1	1,095.7	1,080.1	3.4	3.6	-68.76	-42.7	-149.2	44.2	37.6	6.67	6.629		
1,200.0	1,183.4	1,195.6	1,177.0	3.9	4.1	-71.34	-48.8	-172.3	49.7	42.0	7.65	6.495		
1,300.0	1,280.6	1,295.4	1,273.9	4.4	4.7	-73.40	-54.9	-195.4	55.3	46.6	8.65	6.391		
1,400.0	1,377.8	1,395.2	1,370.8	4.9	5.2	-75.08	-61.0	-218.5	60.9	51.2	9.65	6.310		
1,500.0	1,475.1	1,495.1	1,467.8	5.4	5.7	-76.48	-67.1	-241.7	66.5	55.9	10.65	6.245		
1,600.0	1,572.3	1,594.9	1,564.7	5.9	6.2	-77.66	-73.2	-264.8	72.2	60.6	11.66	6.193		
1,700.0	1,669.5	1,694.7	1,661.6	6.4	6.7	-78.66	-79.3	-287.9	77.9	65.3	12.67	6.150		
1,800.0	1,766.7	1,794.5	1,758.5	6.9	7.2	-79.53	-85.4	-311.0	83.7	70.0	13.68	6.115		
1,900.0	1,864.0	1,894.4	1,855.4	7.4	7.7	-80.29	-91.4	-334.2	89.4	74.7	14.70	6.085		
2,000.0	1,961.2	1,994.2	1,952.4	7.9	8.2	-80.95	-97.5	-357.3	95.2	79.5	15.71	6.060		
2,100.0	2,058.4	2,094.0	2,049.3	8.4	8.7	-81.54	-103.6	-380.4	101.0	84.3	16.72	6.038		
2,200.0	2,155.7	2,193.8	2,146.2	8.9	9.3	-82.07	-109.7	-403.5	106.8	89.0	17.74	6.020		
2,300.0	2,252.9	2,293.7	2,243.1	9.4	9.8	-82.54	-115.8	-426.7	112.6	93.8	18.75	6.003		
2,400.0	2,350.1	2,393.5	2,340.0	9.9	10.3	-82.96	-121.9	-449.8	118.4	98.6	19.77	5.989		
2,500.0	2,447.3	2,493.3	2,437.0	10.4	10.8	-83.35	-128.0	-472.9	124.2	103.4	20.78	5.977		
2,600.0	2,544.6	2,593.2	2,533.9	10.9	11.3	-83.70	-134.1	-496.1	130.0	108.2	21.79	5.966		
2,700.0	2,641.8	2,693.0	2,630.8	11.4	11.8	-84.02	-140.2	-519.2	135.8	113.0	22.81	5.956		
2,800.0	2,739.0	2,792.8	2,727.7	11.9	12.3	-84.31	-146.3	-542.3	141.6	117.8	23.82	5.947		
2,900.0	2,836.3	2,892.6	2,824.6	12.4	12.9	-84.58	-152.4	-565.4	147.5	122.6	24.83	5.939		
3,000.0	2,933.5	2,992.5	2,921.6	12.9	13.4	-84.83	-158.5	-588.6	153.3	127.5	25.85	5.932		
3,100.0	3,030.7	3,092.3	3,018.5	13.4	13.9	-85.07	-164.6	-611.7	159.1	132.3	26.86	5.925		
3,200.0	3,127.9	3,192.1	3,115.4	13.9	14.4	-85.28	-170.7	-634.8	165.0	137.1	27.87	5.919		
3,300.0	3,225.2	3,292.0	3,212.3	14.4	14.9	-85.48	-176.8	-657.9	170.8	141.9	28.88	5.914		
3,400.0	3,322.4	3,391.8	3,309.3	15.0	15.4	-85.67	-182.9	-681.1	176.7	146.8	29.90	5.909		
3,500.0	3,419.6	3,491.6	3,406.2	15.5	15.9	-85.85	-188.9	-704.2	182.5	151.6	30.91	5.904		
3,600.0	3,516.9	3,591.4	3,503.1	16.0	16.5	-86.01	-195.0	-727.3	188.3	156.4	31.92	5.900		
3,700.0	3,614.1	3,691.3	3,600.0	16.5	17.0	-86.17	-201.1	-750.4	194.2	161.2	32.93	5.896		
3,800.0	3,711.3	3,791.1	3,696.9	17.0	17.5	-86.31	-207.2	-773.6	200.0	166.1	33.95	5.893		
3,900.0	3,808.5	3,890.9	3,793.9	17.5	18.0	-86.45	-213.3	-796.7	205.9	170.9	34.96	5.889		
4,000.0	3,905.8	3,990.7	3,890.8	18.0	18.5	-86.58	-219.4	-819.8	211.7	175.8	35.97	5.886		
4,100.0	4,003.0	4,090.6	3,987.7	18.5	19.0	-86.70	-225.5	-842.9	217.6	180.6	36.98	5.883		
4,200.0	4,100.2	4,190.4	4,084.6	19.0	19.6	-86.82	-231.6	-866.1	223.4	185.4	37.99	5.881		
4,300.0	4,197.4	4,290.2	4,181.5	19.5	20.1	-86.93	-237.7	-889.2	229.3	190.3	39.00	5.878		
4,400.0	4,294.7	4,390.1	4,278.5	20.0	20.6	-87.03	-243.8	-912.3	235.1	195.1	40.01	5.876		
4,500.0	4,391.9	4,489.9	4,375.4	20.5	21.1	-87.13	-249.9	-935.4	241.0	200.0	41.03	5.874		
4,600.0	4,489.1	4,589.7	4,472.3	21.0	21.6	-87.23	-256.0	-958.6	246.8	204.8	42.04	5.872		
4,700.0	4,586.4	4,689.5	4,569.2	21.5	22.1	-87.32	-262.1	-981.7	252.7	209.6	43.05	5.870		
4,800.0	4,683.6	4,789.4	4,666.1	22.0	22.6	-87.41	-268.2	-1,004.8	258.5	214.5	44.06	5.868		
4,900.0	4,780.8	4,889.2	4,763.1	22.5	23.2	-87.49	-274.3	-1,027.9	264.4	219.3	45.07	5.867		

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

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 12C-12 F12
Project:	Garfield County, CO	TVD Reference:	30' KB @ 8279.0usft (H&P 330)
Reference Site:	S12-T7S-R97W	MD Reference:	30' KB @ 8279.0usft (H&P 330)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 12C-12 F12	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S12-T7S-R97W - PUCKETT 12D-12 F12 - OH - Plan #2													Offset Site Error: 0.0 usft	
Survey Program: 0-ISCSWA MWD													Offset Well Error: 0.0 usft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor		
5,000.0	4,878.0	4,989.0	4,860.0	23.0	23.7	-87.57	-280.4	-1,051.1	270.3	224.2	46.08	5.865		
5,100.0	4,975.3	5,088.8	4,956.9	23.5	24.2	-87.64	-286.5	-1,074.2	276.1	229.0	47.09	5.864		
5,200.0	5,072.5	5,188.7	5,053.8	24.0	24.7	-87.72	-292.5	-1,097.3	282.0	233.9	48.10	5.863		
5,300.0	5,169.7	5,288.5	5,150.7	24.5	25.2	-87.79	-298.6	-1,120.4	287.8	238.7	49.11	5.861		
5,400.0	5,267.0	5,388.3	5,247.7	25.0	25.7	-87.85	-304.7	-1,143.6	293.7	243.6	50.11	5.860		
5,500.0	5,364.2	5,488.2	5,344.6	25.5	26.3	-87.92	-310.8	-1,166.7	299.5	248.4	51.12	5.859		
5,600.0	5,461.4	5,588.0	5,441.5	26.0	26.8	-87.98	-316.9	-1,189.8	305.4	253.3	52.13	5.858		
5,700.0	5,558.6	5,687.8	5,538.4	26.5	27.3	-88.04	-323.0	-1,213.0	311.3	258.1	53.14	5.857		
5,800.0	5,655.9	5,787.6	5,635.3	27.0	27.8	-88.10	-329.1	-1,236.1	317.1	263.0	54.15	5.856		
5,900.0	5,753.1	5,887.5	5,732.3	27.5	28.3	-88.15	-335.2	-1,259.2	323.0	267.8	55.16	5.855		
6,000.0	5,850.3	5,987.3	5,829.2	28.1	28.8	-88.21	-341.3	-1,282.3	328.8	272.7	56.17	5.855		
6,100.0	5,947.6	6,087.1	5,926.1	28.6	29.4	-88.26	-347.4	-1,305.5	334.7	277.5	57.18	5.854		
6,192.5	6,037.5	6,179.4	6,015.7	29.0	29.8	-88.30	-353.0	-1,326.8	340.1	282.0	58.11	5.853		
6,200.0	6,044.8	6,187.0	6,023.0	29.1	29.9	-88.32	-353.5	-1,328.6	340.6	282.4	58.18	5.853		
6,300.0	6,142.7	6,291.4	6,125.0	29.4	30.2	-88.39	-359.3	-1,350.5	345.9	287.0	58.90	5.873		
6,400.0	6,241.5	6,396.5	6,228.6	29.7	30.5	-88.43	-363.6	-1,367.1	349.9	290.4	59.47	5.884		
6,500.0	6,341.0	6,501.7	6,333.2	29.9	30.8	-88.44	-366.6	-1,378.2	352.6	292.7	59.89	5.887		
6,600.0	6,440.8	6,606.9	6,438.3	30.0	30.9	-88.42	-368.0	-1,383.7	353.9	293.7	60.18	5.881		
6,643.2	6,484.0	6,652.4	6,483.7	30.1	31.0	-178.99	-368.2	-1,384.4	354.1	293.8	60.27	5.875		
6,700.0	6,540.8	6,709.5	6,540.8	30.1	31.0	-178.99	-368.2	-1,384.4	354.1	293.7	60.38	5.865		
6,800.0	6,640.8	6,809.5	6,640.8	30.2	31.1	-178.99	-368.2	-1,384.4	354.1	293.5	60.58	5.845		
6,900.0	6,740.8	6,909.5	6,740.8	30.3	31.2	-178.99	-368.2	-1,384.4	354.1	293.3	60.78	5.826		
7,000.0	6,840.8	7,009.5	6,840.8	30.4	31.3	-178.99	-368.2	-1,384.4	354.1	293.1	60.98	5.806		
7,100.0	6,940.8	7,109.5	6,940.8	30.5	31.4	-178.99	-368.2	-1,384.4	354.1	292.9	61.19	5.787		
7,200.0	7,040.8	7,209.5	7,040.8	30.6	31.5	-178.99	-368.2	-1,384.4	354.1	292.7	61.40	5.767		
7,300.0	7,140.8	7,309.5	7,140.8	30.7	31.6	-178.99	-368.2	-1,384.4	354.1	292.5	61.61	5.747		
7,400.0	7,240.8	7,409.5	7,240.8	30.8	31.7	-178.99	-368.2	-1,384.4	354.1	292.3	61.83	5.727		
7,500.0	7,340.8	7,509.5	7,340.8	31.0	31.8	-178.99	-368.2	-1,384.4	354.1	292.0	62.05	5.707		
7,600.0	7,440.8	7,609.5	7,440.8	31.1	31.9	-178.99	-368.2	-1,384.4	354.1	291.8	62.27	5.687		
7,700.0	7,540.8	7,709.5	7,540.8	31.2	32.0	-178.99	-368.2	-1,384.4	354.1	291.6	62.49	5.666		
7,800.0	7,640.8	7,809.5	7,640.8	31.3	32.1	-178.99	-368.2	-1,384.4	354.1	291.4	62.71	5.646		
7,900.0	7,740.8	7,909.5	7,740.8	31.4	32.2	-178.99	-368.2	-1,384.4	354.1	291.1	62.94	5.626		
8,000.0	7,840.8	8,009.5	7,840.8	31.5	32.3	-178.99	-368.2	-1,384.4	354.1	290.9	63.17	5.605		
8,100.0	7,940.8	8,109.5	7,940.8	31.6	32.5	-178.99	-368.2	-1,384.4	354.1	290.7	63.40	5.585		
8,200.0	8,040.8	8,209.5	8,040.8	31.8	32.6	-178.99	-368.2	-1,384.4	354.1	290.4	63.64	5.564		
8,300.0	8,140.8	8,309.5	8,140.8	31.9	32.7	-178.99	-368.2	-1,384.4	354.1	290.2	63.87	5.543		
8,400.0	8,240.8	8,409.5	8,240.8	32.0	32.8	-178.99	-368.2	-1,384.4	354.1	290.0	64.11	5.523		
8,500.0	8,340.8	8,509.5	8,340.8	32.1	32.9	-178.99	-368.2	-1,384.4	354.1	289.7	64.35	5.502		
8,600.0	8,440.8	8,609.5	8,440.8	32.3	33.0	-178.99	-368.2	-1,384.4	354.1	289.5	64.60	5.481		
8,649.6	8,490.5	8,659.1	8,490.5	32.3	33.1	-178.99	-368.2	-1,384.4	354.1	289.4	64.72	5.471		
8,680.2	8,521.0	8,679.7	8,511.0	32.3	33.1	-178.99	-368.2	-1,384.4	354.2	289.4	64.78	5.468 SF		

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 12C-12 F12
Project:	Garfield County, CO	TVD Reference:	30' KB @ 8279.0usft (H&P 330)
Reference Site:	S12-T7S-R97W	MD Reference:	30' KB @ 8279.0usft (H&P 330)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 12C-12 F12	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S12-T7S-R97W - PUCKETT 13A-12 F12 - OH - Plan #2													Offset Site Error:	0.0 usft
Survey Program: 0-ISCSWA MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-130.70	-10.2	-11.9	15.6					
100.0	100.0	100.0	100.0	0.1	0.1	-130.70	-10.2	-11.9	15.6	15.5	0.16	99.410		
200.0	200.0	200.0	200.0	0.3	0.3	-130.70	-10.2	-11.9	15.6	15.0	0.61	25.773	CC, ES	
300.0	300.0	299.1	299.1	0.5	0.5	-128.58	-11.3	-14.2	18.2	17.1	1.04	17.428		
400.0	400.0	397.9	397.6	0.7	0.7	-37.57	-14.6	-21.1	23.7	22.2	1.52	15.586		
500.0	499.6	496.4	495.2	1.0	1.0	-41.14	-20.1	-32.6	30.1	28.1	2.03	14.818		
600.0	598.8	594.4	591.6	1.3	1.4	-46.29	-27.7	-48.4	37.8	35.2	2.59	14.576		
700.0	697.1	692.0	686.5	1.6	1.8	-51.77	-37.4	-68.7	47.0	43.7	3.24	14.503		
750.7	746.5	742.4	735.3	1.8	2.1	-54.94	-42.9	-80.2	51.7	48.0	3.62	14.270		
800.0	794.5	791.4	782.7	2.0	2.3	-58.16	-48.3	-91.4	56.0	52.0	3.99	14.022		
900.0	891.7	890.8	878.9	2.5	2.8	-63.35	-59.2	-114.1	65.2	60.4	4.84	13.472		
1,000.0	988.9	990.2	975.1	3.0	3.4	-67.23	-70.1	-136.8	74.8	69.1	5.76	12.995		
1,100.0	1,086.1	1,089.6	1,071.2	3.4	3.9	-70.22	-81.0	-159.5	84.7	78.0	6.72	12.616		
1,200.0	1,183.4	1,189.1	1,167.4	3.9	4.4	-72.58	-91.9	-182.3	94.8	87.1	7.69	12.319		
1,300.0	1,280.6	1,288.5	1,263.6	4.4	4.9	-74.48	-102.7	-205.0	105.0	96.3	8.69	12.085		
1,400.0	1,377.8	1,387.9	1,359.8	4.9	5.5	-76.05	-113.6	-227.7	115.3	105.6	9.69	11.899		
1,500.0	1,475.1	1,487.3	1,456.0	5.4	6.0	-77.35	-124.5	-250.4	125.6	115.0	10.69	11.749		
1,600.0	1,572.3	1,586.8	1,552.1	5.9	6.5	-78.46	-135.4	-273.1	136.1	124.4	11.70	11.625		
1,700.0	1,669.5	1,686.2	1,648.3	6.4	7.1	-79.41	-146.3	-295.8	146.5	133.8	12.72	11.523		
1,800.0	1,766.7	1,785.6	1,744.5	6.9	7.6	-80.24	-157.2	-318.6	157.0	143.3	13.73	11.437		
1,900.0	1,864.0	1,885.0	1,840.7	7.4	8.2	-80.96	-168.1	-341.3	167.5	152.8	14.74	11.364		
2,000.0	1,961.2	1,984.5	1,936.9	7.9	8.7	-81.59	-178.9	-364.0	178.1	162.3	15.76	11.302		
2,100.0	2,058.4	2,083.9	2,033.0	8.4	9.2	-82.16	-189.8	-386.7	188.7	171.9	16.77	11.248		
2,200.0	2,155.7	2,183.3	2,129.2	8.9	9.8	-82.66	-200.7	-409.4	199.2	181.5	17.79	11.200		
2,300.0	2,252.9	2,282.7	2,225.4	9.4	10.3	-83.12	-211.6	-432.1	209.8	191.0	18.80	11.159		
2,400.0	2,350.1	2,382.2	2,321.6	9.9	10.8	-83.53	-222.5	-454.9	220.4	200.6	19.82	11.122		
2,500.0	2,447.3	2,481.6	2,417.8	10.4	11.4	-83.90	-233.4	-477.6	231.1	210.2	20.84	11.090		
2,600.0	2,544.6	2,581.0	2,513.9	10.9	11.9	-84.24	-244.3	-500.3	241.7	219.8	21.85	11.061		
2,700.0	2,641.8	2,680.4	2,610.1	11.4	12.5	-84.55	-255.1	-523.0	252.3	229.5	22.87	11.035		
2,800.0	2,739.0	2,779.9	2,706.3	11.9	13.0	-84.83	-266.0	-545.7	263.0	239.1	23.88	11.011		
2,900.0	2,836.3	2,879.3	2,802.5	12.4	13.5	-85.10	-276.9	-568.4	273.6	248.7	24.90	10.990		
3,000.0	2,933.5	2,978.7	2,898.7	12.9	14.1	-85.34	-287.8	-591.2	284.3	258.4	25.91	10.970		
3,100.0	3,030.7	3,078.1	2,994.8	13.4	14.6	-85.57	-298.7	-613.9	294.9	268.0	26.93	10.953		
3,200.0	3,127.9	3,177.5	3,091.0	13.9	15.1	-85.78	-309.6	-636.6	305.6	277.6	27.94	10.937		
3,300.0	3,225.2	3,277.0	3,187.2	14.4	15.7	-85.97	-320.5	-659.3	316.3	287.3	28.96	10.922		
3,400.0	3,322.4	3,376.4	3,283.4	15.0	16.2	-86.16	-331.3	-682.0	326.9	297.0	29.97	10.908		
3,500.0	3,419.6	3,475.8	3,379.6	15.5	16.8	-86.33	-342.2	-704.7	337.6	306.6	30.98	10.896		
3,600.0	3,516.9	3,575.2	3,475.7	16.0	17.3	-86.49	-353.1	-727.5	348.3	316.3	32.00	10.884		
3,700.0	3,614.1	3,674.7	3,571.9	16.5	17.8	-86.64	-364.0	-750.2	358.9	325.9	33.01	10.874		
3,800.0	3,711.3	3,774.1	3,668.1	17.0	18.4	-86.79	-374.9	-772.9	369.6	335.6	34.02	10.864		
3,900.0	3,808.5	3,873.5	3,764.3	17.5	18.9	-86.92	-385.8	-795.6	380.3	345.3	35.04	10.855		
4,000.0	3,905.8	3,972.9	3,860.5	18.0	19.5	-87.05	-396.7	-818.3	391.0	354.9	36.05	10.846		
4,100.0	4,003.0	4,072.4	3,956.6	18.5	20.0	-87.17	-407.5	-841.0	401.7	364.6	37.06	10.838		
4,200.0	4,100.2	4,171.8	4,052.8	19.0	20.5	-87.28	-418.4	-863.8	412.4	374.3	38.07	10.831		
4,300.0	4,197.4	4,271.2	4,149.0	19.5	21.1	-87.39	-429.3	-886.5	423.1	384.0	39.08	10.824		
4,400.0	4,294.7	4,370.6	4,245.2	20.0	21.6	-87.50	-440.2	-909.2	433.7	393.6	40.10	10.818		
4,500.0	4,391.9	4,470.1	4,341.4	20.5	22.1	-87.59	-451.1	-931.9	444.4	403.3	41.11	10.812		
4,600.0	4,489.1	4,569.5	4,437.5	21.0	22.7	-87.69	-462.0	-954.6	455.1	413.0	42.12	10.806		
4,700.0	4,586.4	4,668.9	4,533.7	21.5	23.2	-87.78	-472.9	-977.3	465.8	422.7	43.13	10.801		
4,800.0	4,683.6	4,768.3	4,629.9	22.0	23.8	-87.86	-483.8	-1,000.1	476.5	432.4	44.14	10.796		
4,900.0	4,780.8	4,867.8	4,726.1	22.5	24.3	-87.94	-494.6	-1,022.8	487.2	442.1	45.15	10.791		
5,000.0	4,878.0	4,967.2	4,822.3	23.0	24.8	-88.02	-505.5	-1,045.5	497.9	451.7	46.16	10.787		

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

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 12C-12 F12
Project:	Garfield County, CO	TVD Reference:	30' KB @ 8279.0usft (H&P 330)
Reference Site:	S12-T7S-R97W	MD Reference:	30' KB @ 8279.0usft (H&P 330)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 12C-12 F12	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S12-T7S-R97W - PUCKETT 13A-12 F12 - OH - Plan #2													Offset Site Error:	0.0 usft
Survey Program: 0-ISCSWA MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance				Total		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Uncertainty Axis	Separation Factor		
5,100.0	4,975.3	5,066.6	4,918.4	23.5	25.4	-88.10	-516.4	-1,068.2	508.6	461.4	47.17	10.783		
5,200.0	5,072.5	5,166.0	5,014.6	24.0	25.9	-88.17	-527.3	-1,090.9	519.3	471.1	48.18	10.779		
5,300.0	5,169.7	5,265.5	5,110.8	24.5	26.5	-88.24	-538.2	-1,113.6	530.0	480.8	49.19	10.775		
5,400.0	5,267.0	5,364.9	5,207.0	25.0	27.0	-88.30	-549.1	-1,136.3	540.7	490.5	50.19	10.772		
5,500.0	5,364.2	5,464.3	5,303.2	25.5	27.5	-88.37	-560.0	-1,159.1	551.4	500.2	51.20	10.769		
5,600.0	5,461.4	5,563.7	5,399.3	26.0	28.1	-88.43	-570.8	-1,181.8	562.1	509.9	52.21	10.766		
5,700.0	5,558.6	5,663.1	5,495.5	26.5	28.6	-88.49	-581.7	-1,204.5	572.8	519.6	53.22	10.763		
5,800.0	5,655.9	5,762.6	5,591.7	27.0	29.1	-88.54	-592.6	-1,227.2	583.5	529.3	54.23	10.761		
5,900.0	5,753.1	5,862.0	5,687.9	27.5	29.7	-88.60	-603.5	-1,249.9	594.2	539.0	55.23	10.758		
6,000.0	5,850.3	5,961.4	5,784.1	28.1	30.2	-88.65	-614.4	-1,272.6	604.9	548.7	56.24	10.756		
6,100.0	5,947.6	6,060.8	5,880.2	28.6	30.8	-88.70	-625.3	-1,295.4	615.6	558.4	57.25	10.754		
6,192.5	6,037.5	6,152.8	5,969.2	29.0	31.3	-88.75	-635.3	-1,316.4	625.5	567.3	58.18	10.752		
6,200.0	6,044.8	6,160.3	5,976.4	29.1	31.3	-88.78	-636.2	-1,318.1	626.3	568.1	58.25	10.752		
6,300.0	6,142.7	6,272.3	6,085.3	29.4	31.8	-88.98	-647.6	-1,341.9	636.4	577.3	59.05	10.777		
6,400.0	6,241.5	6,388.9	6,200.0	29.7	32.1	-89.12	-656.6	-1,360.7	643.9	584.3	59.68	10.790		
6,500.0	6,341.0	6,506.0	6,316.2	29.9	32.4	-89.21	-662.6	-1,373.2	648.9	588.8	60.15	10.790		
6,600.0	6,440.8	6,623.3	6,433.3	30.0	32.5	-89.25	-665.5	-1,379.3	651.4	590.9	60.46	10.773		
6,643.2	6,484.0	6,674.0	6,484.0	30.1	32.6	-179.85	-665.8	-1,379.9	651.6	591.1	60.56	10.760		
6,700.0	6,540.8	6,730.8	6,540.8	30.1	32.6	-179.85	-665.8	-1,379.9	651.6	590.9	60.66	10.741		
6,800.0	6,640.8	6,830.8	6,640.8	30.2	32.7	-179.85	-665.8	-1,379.9	651.6	590.7	60.86	10.707		
6,900.0	6,740.8	6,930.8	6,740.8	30.3	32.8	-179.85	-665.8	-1,379.9	651.6	590.5	61.06	10.672		
7,000.0	6,840.8	7,030.8	6,840.8	30.4	32.9	-179.85	-665.8	-1,379.9	651.6	590.3	61.26	10.637		
7,100.0	6,940.8	7,130.8	6,940.8	30.5	33.0	-179.85	-665.8	-1,379.9	651.6	590.1	61.46	10.601		
7,200.0	7,040.8	7,230.8	7,040.8	30.6	33.1	-179.85	-665.8	-1,379.9	651.6	589.9	61.67	10.566		
7,300.0	7,140.8	7,330.8	7,140.8	30.7	33.2	-179.85	-665.8	-1,379.9	651.6	589.7	61.88	10.530		
7,400.0	7,240.8	7,430.8	7,240.8	30.8	33.3	-179.85	-665.8	-1,379.9	651.6	589.5	62.09	10.494		
7,500.0	7,340.8	7,530.8	7,340.8	31.0	33.4	-179.85	-665.8	-1,379.9	651.6	589.3	62.31	10.458		
7,600.0	7,440.8	7,630.8	7,440.8	31.1	33.5	-179.85	-665.8	-1,379.9	651.6	589.1	62.52	10.422		
7,700.0	7,540.8	7,730.8	7,540.8	31.2	33.6	-179.85	-665.8	-1,379.9	651.6	588.9	62.74	10.386		
7,800.0	7,640.8	7,830.8	7,640.8	31.3	33.7	-179.85	-665.8	-1,379.9	651.6	588.6	62.96	10.349		
7,900.0	7,740.8	7,930.8	7,740.8	31.4	33.8	-179.85	-665.8	-1,379.9	651.6	588.4	63.19	10.312		
8,000.0	7,840.8	8,030.8	7,840.8	31.5	33.9	-179.85	-665.8	-1,379.9	651.6	588.2	63.41	10.275		
8,100.0	7,940.8	8,130.8	7,940.8	31.6	34.0	-179.85	-665.8	-1,379.9	651.6	588.0	63.64	10.238		
8,200.0	8,040.8	8,230.8	8,040.8	31.8	34.1	-179.85	-665.8	-1,379.9	651.6	587.7	63.87	10.201		
8,300.0	8,140.8	8,330.8	8,140.8	31.9	34.2	-179.85	-665.8	-1,379.9	651.6	587.5	64.11	10.164		
8,400.0	8,240.8	8,430.8	8,240.8	32.0	34.3	-179.85	-665.8	-1,379.9	651.6	587.3	64.34	10.127		
8,500.0	8,340.8	8,530.8	8,340.8	32.1	34.4	-179.85	-665.8	-1,379.9	651.6	587.0	64.58	10.090		
8,600.0	8,440.8	8,630.8	8,440.8	32.3	34.5	-179.85	-665.8	-1,379.9	651.6	586.8	64.82	10.052		
8,643.3	8,484.2	8,674.1	8,484.2	32.3	34.5	-179.85	-665.8	-1,379.9	651.6	586.7	64.93	10.036		
8,680.2	8,521.0	8,689.0	8,499.0	32.3	34.6	-179.85	-665.8	-1,379.9	652.0	587.0	64.99	10.032 SF		

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 12C-12 F12
Project:	Garfield County, CO	TVD Reference:	30' KB @ 8279.0usft (H&P 330)
Reference Site:	S12-T7S-R97W	MD Reference:	30' KB @ 8279.0usft (H&P 330)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 12C-12 F12	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S12-T7S-R97W - PUCKETT 13B-12 F12 - OH - Plan #2													Offset Site Error:	0.0 usft
Survey Program: 0-ISCSWA MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-162.77	-18.2	-5.6	19.1					
100.0	100.0	100.0	100.0	0.1	0.1	-162.77	-18.2	-5.6	19.1	18.9	0.16	121.185		
200.0	200.0	200.0	200.0	0.3	0.3	-162.77	-18.2	-5.6	19.1	18.5	0.61	31.418 CC, ES		
300.0	300.0	299.1	299.1	0.5	0.5	-158.42	-19.7	-7.8	21.2	20.1	1.04	20.313		
400.0	400.0	397.9	397.6	0.7	0.7	-63.55	-24.0	-14.1	26.7	25.2	1.50	17.818		
500.0	499.6	496.3	495.1	1.0	1.0	-64.28	-31.1	-24.6	34.4	32.4	1.99	17.234		
600.0	598.8	594.1	591.3	1.3	1.4	-67.25	-41.0	-39.1	44.3	41.7	2.57	17.243		
700.0	697.1	691.2	685.8	1.6	1.8	-70.85	-53.5	-57.6	56.6	53.3	3.26	17.349		
750.7	746.5	740.4	733.3	1.8	2.1	-72.69	-60.9	-68.4	63.7	60.0	3.67	17.342		
800.0	794.5	789.2	780.1	2.0	2.3	-74.63	-68.4	-79.4	70.8	66.7	4.10	17.284		
900.0	891.7	888.0	875.2	2.5	2.9	-77.57	-83.6	-101.7	85.4	80.4	5.01	17.065		
1,000.0	988.9	986.9	970.3	3.0	3.4	-79.64	-98.8	-124.1	100.2	94.3	5.96	16.826		
1,100.0	1,086.1	1,085.7	1,065.4	3.4	4.0	-81.19	-114.0	-146.4	115.1	108.1	6.93	16.610		
1,200.0	1,183.4	1,184.6	1,160.5	3.9	4.5	-82.38	-129.1	-168.7	130.0	122.1	7.91	16.428		
1,300.0	1,280.6	1,283.4	1,255.6	4.4	5.1	-83.32	-144.3	-191.0	145.0	136.1	8.91	16.274		
1,400.0	1,377.8	1,382.2	1,350.7	4.9	5.7	-84.09	-159.5	-213.3	160.0	150.1	9.91	16.145		
1,500.0	1,475.1	1,481.1	1,445.8	5.4	6.2	-84.72	-174.7	-235.7	175.0	164.1	10.91	16.035		
1,600.0	1,572.3	1,579.9	1,540.9	5.9	6.8	-85.26	-189.9	-258.0	190.0	178.1	11.92	15.942		
1,700.0	1,669.5	1,678.8	1,635.9	6.4	7.4	-85.71	-205.1	-280.3	205.1	192.2	12.93	15.862		
1,800.0	1,766.7	1,777.6	1,731.0	6.9	7.9	-86.11	-220.3	-302.6	220.1	206.2	13.94	15.792		
1,900.0	1,864.0	1,876.5	1,826.1	7.4	8.5	-86.45	-235.4	-325.0	235.2	220.3	14.95	15.732		
2,000.0	1,961.2	1,975.3	1,921.2	7.9	9.1	-86.75	-250.6	-347.3	250.3	234.3	15.96	15.679		
2,100.0	2,058.4	2,074.2	2,016.3	8.4	9.6	-87.02	-265.8	-369.6	265.4	248.4	16.98	15.631		
2,200.0	2,155.7	2,173.0	2,111.4	8.9	10.2	-87.26	-281.0	-391.9	280.5	262.5	17.99	15.589		
2,300.0	2,252.9	2,271.9	2,206.5	9.4	10.8	-87.47	-296.2	-414.2	295.6	276.6	19.01	15.552		
2,400.0	2,350.1	2,370.7	2,301.6	9.9	11.3	-87.67	-311.4	-436.6	310.7	290.7	20.02	15.518		
2,500.0	2,447.3	2,469.6	2,396.7	10.4	11.9	-87.84	-326.6	-458.9	325.8	304.8	21.03	15.488		
2,600.0	2,544.6	2,568.4	2,491.8	10.9	12.5	-88.00	-341.7	-481.2	340.9	318.8	22.05	15.461		
2,700.0	2,641.8	2,667.3	2,586.8	11.4	13.0	-88.15	-356.9	-503.5	356.0	332.9	23.06	15.436		
2,800.0	2,739.0	2,766.1	2,681.9	11.9	13.6	-88.29	-372.1	-525.8	371.1	347.0	24.08	15.413		
2,900.0	2,836.3	2,865.0	2,777.0	12.4	14.2	-88.41	-387.3	-548.2	386.2	361.1	25.09	15.393		
3,000.0	2,933.5	2,963.8	2,872.1	12.9	14.7	-88.52	-402.5	-570.5	401.3	375.2	26.11	15.374		
3,100.0	3,030.7	3,062.7	2,967.2	13.4	15.3	-88.63	-417.7	-592.8	416.5	389.3	27.12	15.357		
3,200.0	3,127.9	3,161.5	3,062.3	13.9	15.9	-88.73	-432.8	-615.1	431.6	403.4	28.13	15.341		
3,300.0	3,225.2	3,260.4	3,157.4	14.4	16.5	-88.82	-448.0	-637.5	446.7	417.5	29.15	15.326		
3,400.0	3,322.4	3,359.2	3,252.5	15.0	17.0	-88.91	-463.2	-659.8	461.8	431.7	30.16	15.312		
3,500.0	3,419.6	3,458.1	3,347.6	15.5	17.6	-88.99	-478.4	-682.1	476.9	445.8	31.17	15.300		
3,600.0	3,516.9	3,556.9	3,442.7	16.0	18.2	-89.07	-493.6	-704.4	492.1	459.9	32.18	15.288		
3,700.0	3,614.1	3,655.8	3,537.7	16.5	18.7	-89.14	-508.8	-726.7	507.2	474.0	33.20	15.278		
3,800.0	3,711.3	3,754.6	3,632.8	17.0	19.3	-89.20	-524.0	-749.1	522.3	488.1	34.21	15.268		
3,900.0	3,808.5	3,853.4	3,727.9	17.5	19.9	-89.27	-539.1	-771.4	537.4	502.2	35.22	15.259		
4,000.0	3,905.8	3,952.3	3,823.0	18.0	20.4	-89.33	-554.3	-793.7	552.5	516.3	36.23	15.250		
4,100.0	4,003.0	4,051.1	3,918.1	18.5	21.0	-89.38	-569.5	-816.0	567.7	530.4	37.24	15.242		
4,200.0	4,100.2	4,150.0	4,013.2	19.0	21.6	-89.44	-584.7	-838.3	582.8	544.5	38.25	15.235		
4,300.0	4,197.4	4,248.8	4,108.3	19.5	22.2	-89.49	-599.9	-860.7	597.9	558.7	39.26	15.228		
4,400.0	4,294.7	4,347.7	4,203.4	20.0	22.7	-89.54	-615.1	-883.0	613.0	572.8	40.27	15.222		
4,500.0	4,391.9	4,446.5	4,298.5	20.5	23.3	-89.58	-630.3	-905.3	628.2	586.9	41.28	15.216		
4,600.0	4,489.1	4,545.4	4,393.6	21.0	23.9	-89.63	-645.4	-927.6	643.3	601.0	42.29	15.210		
4,700.0	4,586.4	4,644.2	4,488.6	21.5	24.4	-89.67	-660.6	-949.9	658.4	615.1	43.30	15.205		
4,800.0	4,683.6	4,743.1	4,583.7	22.0	25.0	-89.71	-675.8	-972.3	673.6	629.2	44.31	15.200		
4,900.0	4,780.8	4,841.9	4,678.8	22.5	25.6	-89.75	-691.0	-994.6	688.7	643.4	45.32	15.196		
5,000.0	4,878.0	4,940.8	4,773.9	23.0	26.1	-89.78	-706.2	-1,016.9	703.8	657.5	46.33	15.192		

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

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 12C-12 F12
Project:	Garfield County, CO	TVD Reference:	30' KB @ 8279.0usft (H&P 330)
Reference Site:	S12-T7S-R97W	MD Reference:	30' KB @ 8279.0usft (H&P 330)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 12C-12 F12	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S12-T7S-R97W - PUCKETT 13B-12 F12 - OH - Plan #2													Offset Site Error:	0.0 usft
Survey Program: 0-ISCSWA MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning	
5,100.0	4,975.3	5,039.6	4,869.0	23.5	26.7	-89.82	-721.4	-1,039.2	718.9	671.6	47.34	15.188		
5,200.0	5,072.5	5,138.5	4,964.1	24.0	27.3	-89.85	-736.6	-1,061.6	734.1	685.7	48.34	15.184		
5,300.0	5,169.7	5,237.3	5,059.2	24.5	27.9	-89.89	-751.7	-1,083.9	749.2	699.8	49.35	15.181		
5,400.0	5,267.0	5,336.2	5,154.3	25.0	28.4	-89.92	-766.9	-1,106.2	764.3	714.0	50.36	15.178		
5,500.0	5,364.2	5,435.0	5,249.4	25.5	29.0	-89.95	-782.1	-1,128.5	779.5	728.1	51.36	15.175		
5,600.0	5,461.4	5,533.9	5,344.5	26.0	29.6	-89.98	-797.3	-1,150.8	794.6	742.2	52.37	15.172		
5,700.0	5,558.6	5,632.7	5,439.5	26.5	30.1	-90.00	-812.5	-1,173.2	809.7	756.3	53.38	15.170		
5,800.0	5,655.9	5,731.6	5,534.6	27.0	30.7	-90.03	-827.7	-1,195.5	824.8	770.5	54.38	15.168		
5,900.0	5,753.1	5,830.4	5,629.7	27.5	31.3	-90.06	-842.9	-1,217.8	840.0	784.6	55.39	15.166		
6,000.0	5,850.3	5,929.3	5,724.8	28.1	31.8	-90.08	-858.0	-1,240.1	855.1	798.7	56.39	15.164		
6,100.0	5,947.6	6,028.1	5,819.9	28.6	32.4	-90.10	-873.2	-1,262.4	870.2	812.8	57.39	15.162		
6,192.5	6,037.5	6,119.5	5,907.8	29.0	32.9	-90.13	-887.3	-1,283.1	884.2	825.9	58.32	15.161		
6,200.0	6,044.8	6,127.0	5,915.0	29.1	33.0	-90.16	-888.4	-1,284.8	885.4	827.0	58.40	15.160		
6,300.0	6,142.7	6,244.4	6,028.3	29.4	33.5	-90.46	-905.7	-1,310.2	899.9	840.6	59.29	15.178		
6,400.0	6,241.5	6,377.9	6,159.1	29.7	34.0	-90.65	-920.8	-1,332.4	911.1	851.1	59.99	15.186		
6,500.0	6,341.0	6,512.5	6,292.4	29.9	34.3	-90.78	-930.9	-1,347.2	918.4	857.9	60.52	15.174		
6,600.0	6,440.8	6,647.7	6,427.3	30.0	34.5	-90.85	-935.6	-1,354.2	921.9	861.0	60.88	15.143		
6,643.2	6,484.0	6,704.4	6,484.0	30.1	34.6	178.55	-936.0	-1,354.8	922.2	861.2	60.98	15.121		
6,700.0	6,540.8	6,761.2	6,540.8	30.1	34.6	178.55	-936.0	-1,354.8	922.2	861.1	61.09	15.095		
6,800.0	6,640.8	6,861.2	6,640.8	30.2	34.7	178.55	-936.0	-1,354.8	922.2	860.9	61.28	15.047		
6,900.0	6,740.8	6,961.2	6,740.8	30.3	34.8	178.55	-936.0	-1,354.8	922.2	860.7	61.48	15.000		
7,000.0	6,840.8	7,061.2	6,840.8	30.4	34.8	178.55	-936.0	-1,354.8	922.2	860.5	61.68	14.952		
7,100.0	6,940.8	7,161.2	6,940.8	30.5	34.9	178.55	-936.0	-1,354.8	922.2	860.3	61.88	14.903		
7,200.0	7,040.8	7,261.2	7,040.8	30.6	35.0	178.55	-936.0	-1,354.8	922.2	860.1	62.08	14.854		
7,300.0	7,140.8	7,361.2	7,140.8	30.7	35.1	178.55	-936.0	-1,354.8	922.2	859.9	62.29	14.805		
7,400.0	7,240.8	7,461.2	7,240.8	30.8	35.2	178.55	-936.0	-1,354.8	922.2	859.7	62.49	14.756		
7,500.0	7,340.8	7,561.2	7,340.8	31.0	35.3	178.55	-936.0	-1,354.8	922.2	859.5	62.70	14.707		
7,600.0	7,440.8	7,661.2	7,440.8	31.1	35.4	178.55	-936.0	-1,354.8	922.2	859.2	62.92	14.657		
7,700.0	7,540.8	7,761.2	7,540.8	31.2	35.4	178.55	-936.0	-1,354.8	922.2	859.0	63.13	14.607		
7,800.0	7,640.8	7,861.2	7,640.8	31.3	35.5	178.55	-936.0	-1,354.8	922.2	858.8	63.35	14.556		
7,900.0	7,740.8	7,961.2	7,740.8	31.4	35.6	178.55	-936.0	-1,354.8	922.2	858.6	63.57	14.506		
8,000.0	7,840.8	8,061.2	7,840.8	31.5	35.7	178.55	-936.0	-1,354.8	922.2	858.4	63.79	14.455		
8,100.0	7,940.8	8,161.2	7,940.8	31.6	35.8	178.55	-936.0	-1,354.8	922.2	858.1	64.02	14.404		
8,200.0	8,040.8	8,261.2	8,040.8	31.8	35.9	178.55	-936.0	-1,354.8	922.2	857.9	64.25	14.353		
8,300.0	8,140.8	8,361.2	8,140.8	31.9	36.0	178.55	-936.0	-1,354.8	922.2	857.7	64.48	14.302		
8,400.0	8,240.8	8,461.2	8,240.8	32.0	36.1	178.55	-936.0	-1,354.8	922.2	857.5	64.71	14.251		
8,500.0	8,340.8	8,561.2	8,340.8	32.1	36.2	178.55	-936.0	-1,354.8	922.2	857.2	64.95	14.199		
8,600.0	8,440.8	8,661.2	8,440.8	32.3	36.3	178.55	-936.0	-1,354.8	922.2	857.0	65.18	14.147		
8,635.7	8,476.5	8,696.9	8,476.5	32.3	36.3	178.55	-936.0	-1,354.8	922.2	856.9	65.27	14.129		
8,680.2	8,521.0	8,709.4	8,489.0	32.3	36.4	178.55	-936.0	-1,354.8	922.7	857.4	65.34	14.122 SF		

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 12C-12 F12
Project:	Garfield County, CO	TVD Reference:	30' KB @ 8279.0usft (H&P 330)
Reference Site:	S12-T7S-R97W	MD Reference:	30' KB @ 8279.0usft (H&P 330)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 12C-12 F12	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S12-T7S-R97W - PUCKETT 22B-12 F12 - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-ISCWSA MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	51.04	40.4	50.0	64.3					
100.0	100.0	100.0	100.0	0.1	0.1	51.04	40.4	50.0	64.3	64.1	0.16	408.505		
200.0	200.0	200.0	200.0	0.3	0.3	51.04	40.4	50.0	64.3	63.7	0.61	105.909 CC, ES		
300.0	300.0	299.2	299.2	0.5	0.5	49.60	42.0	49.4	64.9	63.8	1.06	61.392		
400.0	400.0	397.1	397.0	0.7	0.8	137.97	46.6	48.3	69.2	67.6	1.54	44.871		
500.0	499.6	492.7	492.3	1.0	1.0	139.16	53.2	51.0	81.7	79.6	2.07	39.409		
600.0	598.8	589.6	588.7	1.3	1.2	142.35	61.1	56.9	101.6	98.9	2.66	38.135 SF		
700.0	697.1	686.3	684.9	1.6	1.5	145.75	69.0	62.8	126.1	122.8	3.26	38.659		
750.7	746.5	734.8	733.1	1.8	1.6	147.39	73.0	65.8	140.3	136.7	3.57	39.268		
800.0	794.5	781.7	779.8	2.0	1.7	149.01	76.9	68.7	154.8	151.0	3.81	40.620		
900.0	891.7	877.0	874.6	2.5	2.0	151.53	84.7	74.6	184.4	180.1	4.30	42.909		
1,000.0	988.9	972.2	969.3	3.0	2.3	153.35	92.5	80.4	214.2	209.4	4.79	44.713		
1,100.0	1,086.1	1,067.5	1,064.1	3.4	2.5	154.72	100.3	86.3	244.2	238.9	5.29	46.150		
1,200.0	1,183.4	1,162.7	1,158.8	3.9	2.8	155.80	108.2	92.2	274.3	268.5	5.80	47.311		
1,300.0	1,280.6	1,258.0	1,253.6	4.4	3.1	156.66	116.0	98.1	304.5	298.1	6.31	48.248		
1,400.0	1,377.8	1,353.3	1,348.3	4.9	3.4	157.37	123.8	103.9	334.7	327.8	6.82	49.040		
1,500.0	1,475.1	1,448.5	1,443.1	5.4	3.6	157.96	131.6	109.8	364.9	357.6	7.34	49.704		
1,600.0	1,572.3	1,543.8	1,537.8	5.9	3.9	158.46	139.5	115.7	395.2	387.3	7.86	50.270		
1,700.0	1,669.5	1,639.0	1,632.5	6.4	4.2	158.89	147.3	121.5	425.5	417.1	8.38	50.757		
1,800.0	1,766.7	1,734.3	1,727.3	6.9	4.5	159.26	155.1	127.4	455.8	446.9	8.91	51.182		
1,900.0	1,864.0	1,829.5	1,822.0	7.4	4.7	159.59	163.0	133.3	486.2	476.7	9.43	51.554		
2,000.0	1,961.2	1,924.8	1,916.8	7.9	5.0	159.87	170.8	139.2	516.5	506.6	9.96	51.885		
2,100.0	2,058.4	2,020.0	2,011.5	8.4	5.3	160.13	178.6	145.0	546.9	536.4	10.48	52.180		
2,200.0	2,155.7	2,115.3	2,106.3	8.9	5.6	160.36	186.4	150.9	577.2	566.2	11.01	52.446		
2,300.0	2,252.9	2,210.5	2,201.0	9.4	5.8	160.56	194.3	156.8	607.6	596.1	11.53	52.686		
2,400.0	2,350.1	2,305.8	2,295.8	9.9	6.1	160.75	202.1	162.6	638.0	625.9	12.06	52.906		
2,500.0	2,447.3	2,401.0	2,390.5	10.4	6.4	160.92	209.9	168.5	668.4	655.8	12.59	53.107		
2,600.0	2,544.6	2,496.3	2,485.3	10.9	6.7	161.07	217.7	174.4	698.8	685.7	13.11	53.293		
2,700.0	2,641.8	2,591.5	2,580.0	11.4	7.0	161.22	225.6	180.3	729.2	715.5	13.64	53.466		
2,800.0	2,739.0	2,686.8	2,674.8	11.9	7.2	161.35	233.4	186.1	759.6	745.4	14.16	53.626		
2,900.0	2,836.3	2,782.0	2,769.5	12.4	7.5	161.47	241.2	192.0	790.0	775.3	14.69	53.776		
3,000.0	2,933.5	2,877.3	2,864.3	12.9	7.8	161.58	249.0	197.9	820.4	805.2	15.22	53.917		
3,100.0	3,030.7	2,972.6	2,959.0	13.4	8.1	161.68	256.9	203.7	850.8	835.1	15.74	54.050		
3,200.0	3,127.9	3,067.8	3,053.8	13.9	8.3	161.78	264.7	209.6	881.2	865.0	16.27	54.175		
3,300.0	3,225.2	3,163.1	3,148.5	14.4	8.6	161.87	272.5	215.5	911.6	894.8	16.79	54.295		
3,400.0	3,322.4	3,258.3	3,243.3	15.0	8.9	161.95	280.3	221.4	942.1	924.7	17.31	54.408		
3,500.0	3,419.6	3,353.6	3,338.0	15.5	9.2	162.03	288.2	227.2	972.5	954.6	17.84	54.516		
3,600.0	3,516.9	3,448.8	3,432.8	16.0	9.4	162.10	296.0	233.1	1,002.9	984.5	18.36	54.620		
3,700.0	3,614.1	3,544.1	3,527.5	16.5	9.7	162.17	303.8	239.0	1,033.3	1,014.4	18.88	54.719		
3,800.0	3,711.3	3,639.3	3,622.3	17.0	10.0	162.24	311.6	244.8	1,063.7	1,044.3	19.41	54.815		
3,900.0	3,808.5	3,734.6	3,717.0	17.5	10.3	162.30	319.5	250.7	1,094.2	1,074.2	19.93	54.907		
4,000.0	3,905.8	3,829.8	3,811.8	18.0	10.6	162.36	327.3	256.6	1,124.6	1,104.1	20.45	54.996		
4,100.0	4,003.0	3,925.1	3,906.5	18.5	10.8	162.41	335.1	262.5	1,155.0	1,134.0	20.97	55.082		
4,200.0	4,100.2	4,020.3	4,001.3	19.0	11.1	162.47	342.9	268.3	1,185.4	1,163.9	21.49	55.165		
4,300.0	4,197.4	4,115.6	4,096.0	19.5	11.4	162.52	350.8	274.2	1,215.9	1,193.9	22.01	55.246		
4,400.0	4,294.7	4,210.8	4,190.8	20.0	11.7	162.57	358.6	280.1	1,246.3	1,223.8	22.53	55.325		
4,500.0	4,391.9	4,306.1	4,285.5	20.5	11.9	162.61	366.4	286.0	1,276.7	1,253.7	23.04	55.402		
4,600.0	4,489.1	4,401.3	4,380.3	21.0	12.2	162.65	374.3	291.8	1,307.2	1,283.6	23.56	55.476		
4,700.0	4,586.4	4,496.6	4,475.0	21.5	12.5	162.70	382.1	297.7	1,337.6	1,313.5	24.08	55.549		
4,800.0	4,683.6	4,591.9	4,569.8	22.0	12.8	162.73	389.9	303.6	1,368.0	1,343.4	24.60	55.621		
4,900.0	4,780.8	4,687.1	4,664.5	22.5	13.0	162.77	397.7	309.4	1,398.4	1,373.3	25.11	55.691		
5,000.0	4,878.0	4,782.4	4,759.3	23.0	13.3	162.81	405.6	315.3	1,428.9	1,403.3	25.63	55.760		

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

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 12C-12 F12
Project:	Garfield County, CO	TVD Reference:	30' KB @ 8279.0usft (H&P 330)
Reference Site:	S12-T7S-R97W	MD Reference:	30' KB @ 8279.0usft (H&P 330)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 12C-12 F12	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S12-T7S-R97W - PUCKETT 22B-12 F12 - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-ISCSWA MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
5,100.0	4,975.3	4,877.6	4,854.0	23.5	13.6	162.84	413.4	321.2	1,459.3	1,433.2	26.14	55.827		
5,200.0	5,072.5	4,972.9	4,948.8	24.0	13.9	162.88	421.2	327.1	1,489.7	1,463.1	26.65	55.893		
5,300.0	5,169.7	5,068.1	5,043.5	24.5	14.2	162.91	429.0	332.9	1,520.2	1,493.0	27.17	55.958		
5,400.0	5,267.0	5,163.4	5,138.3	25.0	14.4	162.94	436.9	338.8	1,550.6	1,522.9	27.69	56.006		
5,500.0	5,364.2	5,258.6	5,233.0	25.5	14.7	162.97	444.7	344.7	1,581.1	1,552.8	28.22	56.034		
5,600.0	5,461.4	5,353.9	5,327.8	26.0	15.0	163.00	452.5	350.5	1,611.5	1,582.7	28.75	56.060		
5,700.0	5,558.6	5,449.1	5,422.5	26.5	15.3	163.02	460.3	356.4	1,641.9	1,612.6	29.28	56.085		
5,800.0	5,655.9	5,544.4	5,517.3	27.0	15.5	163.05	468.2	362.3	1,672.4	1,642.6	29.81	56.109		
5,900.0	5,753.1	5,639.6	5,612.0	27.5	15.8	163.08	476.0	368.2	1,702.8	1,672.5	30.34	56.132		
6,000.0	5,850.3	5,734.9	5,706.8	28.1	16.1	163.10	483.8	374.0	1,733.2	1,702.4	30.87	56.155		
6,100.0	5,947.6	5,830.1	5,801.5	28.6	16.4	163.12	491.6	379.9	1,763.7	1,732.3	31.40	56.176		
6,192.5	6,037.5	5,918.2	5,889.1	29.0	16.6	163.14	498.9	385.3	1,791.8	1,759.9	31.89	56.196		
6,200.0	6,044.8	5,925.4	5,896.3	29.1	16.7	163.17	499.5	385.8	1,794.1	1,762.2	31.94	56.174		
6,300.0	6,142.7	6,021.5	5,991.8	29.4	16.9	163.41	507.4	391.7	1,821.8	1,789.2	32.58	55.924		
6,400.0	6,241.5	6,118.8	6,088.7	29.7	17.2	163.55	515.4	397.7	1,844.6	1,811.5	33.13	55.679		
6,500.0	6,341.0	6,217.1	6,186.5	29.9	17.5	163.61	523.4	403.8	1,862.5	1,828.9	33.59	55.443		
6,600.0	6,440.8	6,316.2	6,285.0	30.0	17.8	163.58	531.6	409.9	1,875.4	1,841.5	33.96	55.219		
6,643.2	6,484.0	6,359.1	6,327.7	30.1	17.9	72.95	535.1	412.5	1,879.5	1,845.4	34.10	55.121		
6,700.0	6,540.8	6,540.1	6,508.2	30.1	18.3	72.73	544.9	419.9	1,883.2	1,848.6	34.56	54.497		
6,800.0	6,640.8	6,672.7	6,640.8	30.2	18.5	72.72	545.3	420.1	1,883.3	1,848.3	34.95	53.883		
6,900.0	6,740.8	6,772.7	6,740.8	30.3	18.7	72.72	545.3	420.1	1,883.3	1,848.0	35.30	53.352		
7,000.0	6,840.8	6,872.7	6,840.8	30.4	18.9	72.72	545.3	420.1	1,883.3	1,847.6	35.65	52.828		
7,100.0	6,940.8	6,972.7	6,940.8	30.5	19.0	72.72	545.3	420.1	1,883.3	1,847.3	36.00	52.311		
7,200.0	7,040.8	7,072.7	7,040.8	30.6	19.2	72.72	545.3	420.1	1,883.3	1,846.9	36.36	51.801		
7,300.0	7,140.8	7,172.7	7,140.8	30.7	19.4	72.72	545.3	420.1	1,883.3	1,846.6	36.71	51.298		
7,400.0	7,240.8	7,272.7	7,240.8	30.8	19.6	72.72	545.3	420.1	1,883.3	1,846.2	37.07	50.802		
7,500.0	7,340.8	7,372.7	7,340.8	31.0	19.7	72.72	545.3	420.1	1,883.3	1,845.8	37.43	50.313		
7,600.0	7,440.8	7,472.7	7,440.8	31.1	19.9	72.72	545.3	420.1	1,883.3	1,845.5	37.79	49.831		
7,700.0	7,540.8	7,572.7	7,540.8	31.2	20.1	72.72	545.3	420.1	1,883.3	1,845.1	38.16	49.356		
7,800.0	7,640.8	7,672.7	7,640.8	31.3	20.3	72.72	545.3	420.1	1,883.3	1,844.7	38.52	48.888		
7,900.0	7,740.8	7,772.7	7,740.8	31.4	20.5	72.72	545.3	420.1	1,883.3	1,844.4	38.89	48.426		
8,000.0	7,840.8	7,872.7	7,840.8	31.5	20.6	72.72	545.3	420.1	1,883.3	1,844.0	39.26	47.971		
8,100.0	7,940.8	7,972.7	7,940.8	31.6	20.8	72.72	545.3	420.1	1,883.3	1,843.6	39.63	47.522		
8,200.0	8,040.8	8,072.7	8,040.8	31.8	21.0	72.72	545.3	420.1	1,883.3	1,843.3	40.00	47.080		
8,300.0	8,140.8	8,172.7	8,140.8	31.9	21.2	72.72	545.3	420.1	1,883.3	1,842.9	40.38	46.644		
8,400.0	8,240.8	8,272.7	8,240.8	32.0	21.4	72.72	545.3	420.1	1,883.3	1,842.5	40.75	46.215		
8,500.0	8,340.8	8,372.7	8,340.8	32.1	21.6	72.72	545.3	420.1	1,883.3	1,842.1	41.13	45.791		
8,600.0	8,440.8	8,472.7	8,440.8	32.3	21.8	72.72	545.3	420.1	1,883.3	1,841.8	41.51	45.374		
8,680.2	8,521.0	8,552.9	8,521.0	32.3	21.9	72.72	545.3	420.1	1,883.3	1,841.5	41.81	45.044		

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 12C-12 F12
Project:	Garfield County, CO	TVD Reference:	30' KB @ 8279.0usft (H&P 330)
Reference Site:	S12-T7S-R97W	MD Reference:	30' KB @ 8279.0usft (H&P 330)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 12C-12 F12	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S12-T7S-R97W - PUCKETT 22C-12 F12 - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-ISCWSA MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance					Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis			
0.0	0.0	0.0	0.0	0.0	0.0	59.11	37.5	62.7	73.0					
100.0	100.0	100.0	100.0	0.1	0.1	59.11	37.5	62.7	73.0	72.9	0.16	464.264		
200.0	200.0	200.0	200.0	0.3	0.3	59.11	37.5	62.7	73.0	72.4	0.61	120.365 CC, ES		
300.0	300.0	296.3	296.2	0.5	0.5	59.33	38.5	64.9	75.5	74.5	1.04	72.376		
400.0	400.0	394.6	394.4	0.7	0.8	151.18	41.0	70.6	84.2	82.6	1.57	53.602		
500.0	499.6	493.6	493.2	1.0	1.0	153.58	43.7	76.6	97.7	95.6	2.12	46.137		
600.0	598.8	591.7	591.1	1.3	1.2	156.38	46.3	82.6	116.1	113.4	2.69	43.099		
700.0	697.1	688.7	687.8	1.6	1.5	159.11	49.0	88.5	139.6	136.3	3.29	42.458 SF		
750.7	746.5	737.4	736.4	1.8	1.6	160.39	50.3	91.4	153.4	149.8	3.59	42.724		
800.0	794.5	784.5	783.4	2.0	1.7	161.63	51.5	94.3	167.5	163.7	3.80	44.049		
900.0	891.7	880.1	878.8	2.5	2.0	163.59	54.1	100.1	196.2	192.0	4.24	46.264		
1,000.0	988.9	975.7	974.2	3.0	2.2	165.05	56.7	105.9	225.1	220.4	4.69	47.981		
1,100.0	1,086.1	1,071.3	1,069.5	3.4	2.4	166.17	59.3	111.7	254.2	249.0	5.15	49.317		
1,200.0	1,183.4	1,166.9	1,164.9	3.9	2.7	167.07	61.8	117.5	283.3	277.6	5.62	50.398		
1,300.0	1,280.6	1,262.5	1,260.3	4.4	2.9	167.80	64.4	123.3	312.4	306.3	6.09	51.271		
1,400.0	1,377.8	1,358.1	1,355.7	4.9	3.2	168.41	67.0	129.0	341.6	335.0	6.57	51.988		
1,500.0	1,475.1	1,453.6	1,451.1	5.4	3.4	168.92	69.6	134.8	370.8	363.7	7.05	52.586		
1,600.0	1,572.3	1,549.2	1,546.4	5.9	3.7	169.35	72.1	140.6	400.0	392.5	7.53	53.091		
1,700.0	1,669.5	1,644.8	1,641.8	6.4	3.9	169.73	74.7	146.4	429.3	421.3	8.02	53.522		
1,800.0	1,766.7	1,740.4	1,737.2	6.9	4.1	170.06	77.3	152.2	458.5	450.0	8.51	53.895		
1,900.0	1,864.0	1,836.0	1,832.6	7.4	4.4	170.34	79.9	158.0	487.8	478.8	9.00	54.220		
2,000.0	1,961.2	1,931.6	1,928.0	7.9	4.6	170.60	82.4	163.8	517.1	507.6	9.49	54.507		
2,100.0	2,058.4	2,027.2	2,023.3	8.4	4.9	170.83	85.0	169.6	546.4	536.4	9.98	54.761		
2,200.0	2,155.7	2,122.8	2,118.7	8.9	5.1	171.04	87.6	175.4	575.7	565.3	10.47	54.990		
2,300.0	2,252.9	2,218.4	2,214.1	9.4	5.4	171.22	90.2	181.2	605.0	594.1	10.96	55.196		
2,400.0	2,350.1	2,314.0	2,309.5	9.9	5.6	171.39	92.7	187.0	634.3	622.9	11.45	55.383		
2,500.0	2,447.3	2,409.5	2,404.9	10.4	5.8	171.54	95.3	192.8	663.7	651.7	11.95	55.555		
2,600.0	2,544.6	2,505.1	2,500.2	10.9	6.1	171.68	97.9	198.6	693.0	680.6	12.44	55.713		
2,700.0	2,641.8	2,600.7	2,595.6	11.4	6.3	171.81	100.5	204.4	722.3	709.4	12.93	55.859		
2,800.0	2,739.0	2,696.3	2,691.0	11.9	6.6	171.93	103.0	210.2	751.7	738.2	13.42	55.995		
2,900.0	2,836.3	2,791.9	2,786.4	12.4	6.8	172.04	105.6	216.0	781.0	767.1	13.92	56.122		
3,000.0	2,933.5	2,887.5	2,881.8	12.9	7.1	172.14	108.2	221.8	810.3	795.9	14.41	56.242		
3,100.0	3,030.7	2,983.1	2,977.1	13.4	7.3	172.24	110.7	227.6	839.7	824.8	14.90	56.355		
3,200.0	3,127.9	3,078.7	3,072.5	13.9	7.5	172.33	113.3	233.4	869.0	853.6	15.39	56.461		
3,300.0	3,225.2	3,174.3	3,167.9	14.4	7.8	172.41	115.9	239.2	898.4	882.5	15.88	56.563		
3,400.0	3,322.4	3,269.9	3,263.3	15.0	8.0	172.49	118.5	245.0	927.7	911.3	16.37	56.660		
3,500.0	3,419.6	3,365.4	3,358.7	15.5	8.3	172.56	121.0	250.7	957.0	940.2	16.86	56.752		
3,600.0	3,516.9	3,461.0	3,454.0	16.0	8.5	172.63	123.6	256.5	986.4	969.0	17.35	56.841		
3,700.0	3,614.1	3,556.6	3,549.4	16.5	8.8	172.69	126.2	262.3	1,015.7	997.9	17.84	56.927		
3,800.0	3,711.3	3,652.2	3,644.8	17.0	9.0	172.75	128.8	268.1	1,045.1	1,026.8	18.33	57.009		
3,900.0	3,808.5	3,747.8	3,740.2	17.5	9.3	172.81	131.3	273.9	1,074.4	1,055.6	18.82	57.089		
4,000.0	3,905.8	3,843.4	3,835.6	18.0	9.5	172.87	133.9	279.7	1,103.8	1,084.5	19.31	57.166		
4,100.0	4,003.0	3,939.0	3,930.9	18.5	9.7	172.92	136.5	285.5	1,133.2	1,113.4	19.80	57.241		
4,200.0	4,100.2	4,034.6	4,026.3	19.0	10.0	172.97	139.1	291.3	1,162.5	1,142.2	20.28	57.314		
4,300.0	4,197.4	4,130.2	4,121.7	19.5	10.2	173.01	141.6	297.1	1,191.9	1,171.1	20.77	57.385		
4,400.0	4,294.7	4,225.8	4,217.1	20.0	10.5	173.06	144.2	302.9	1,221.2	1,200.0	21.26	57.454		
4,500.0	4,391.9	4,321.3	4,312.5	20.5	10.7	173.10	146.8	308.7	1,250.6	1,228.8	21.74	57.522		
4,600.0	4,489.1	4,416.9	4,407.8	21.0	11.0	173.14	149.4	314.5	1,279.9	1,257.7	22.23	57.589		
4,700.0	4,586.4	4,512.5	4,503.2	21.5	11.2	173.18	151.9	320.3	1,309.3	1,286.6	22.71	57.654		
4,800.0	4,683.6	4,608.1	4,598.6	22.0	11.4	173.22	154.5	326.1	1,338.6	1,315.4	23.19	57.717		
4,900.0	4,780.8	4,703.7	4,694.0	22.5	11.7	173.25	157.1	331.9	1,368.0	1,344.3	23.68	57.780		
5,000.0	4,878.0	4,799.3	4,789.3	23.0	11.9	173.29	159.7	337.7	1,397.4	1,373.2	24.16	57.842		

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

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 12C-12 F12
Project:	Garfield County, CO	TVD Reference:	30' KB @ 8279.0usft (H&P 330)
Reference Site:	S12-T7S-R97W	MD Reference:	30' KB @ 8279.0usft (H&P 330)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 12C-12 F12	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S12-T7S-R97W - PUCKETT 22C-12 F12 - OH - PLAN #1													Offset Site Error: 0.0 usft	
Survey Program: 0-ISCSWA MWD													Offset Well Error: 0.0 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor		
5,100.0	4,975.3	4,894.9	4,884.7	23.5	12.2	173.32	162.2	343.5	1,426.7	1,402.1	24.64	57.903		
5,200.0	5,072.5	4,990.5	4,980.1	24.0	12.4	173.35	164.8	349.3	1,456.1	1,431.0	25.12	57.963		
5,300.0	5,169.7	5,086.1	5,075.5	24.5	12.7	173.38	167.4	355.1	1,485.4	1,459.8	25.60	58.022		
5,400.0	5,267.0	5,181.7	5,170.9	25.0	12.9	173.41	170.0	360.9	1,514.8	1,488.7	26.08	58.080		
5,500.0	5,364.2	5,277.2	5,266.2	25.5	13.1	173.44	172.5	366.7	1,544.2	1,517.6	26.56	58.138		
5,600.0	5,461.4	5,372.8	5,361.6	26.0	13.4	173.46	175.1	372.4	1,573.5	1,546.5	27.04	58.195		
5,700.0	5,558.6	5,468.4	5,457.0	26.5	13.6	173.49	177.7	378.2	1,602.9	1,575.4	27.52	58.252		
5,800.0	5,655.9	5,564.0	5,552.4	27.0	13.9	173.51	180.3	384.0	1,632.2	1,604.2	27.99	58.307		
5,900.0	5,753.1	5,659.6	5,647.8	27.5	14.1	173.54	182.8	389.8	1,661.6	1,633.1	28.47	58.363		
6,000.0	5,850.3	5,755.2	5,743.1	28.1	14.4	173.56	185.4	395.6	1,691.0	1,662.0	28.95	58.418		
6,100.0	5,947.6	5,850.8	5,838.5	28.6	14.6	173.58	188.0	401.4	1,720.3	1,690.9	29.42	58.472		
6,192.5	6,037.5	5,939.2	5,926.7	29.0	14.8	173.60	190.4	406.8	1,747.5	1,717.6	29.86	58.522		
6,200.0	6,044.8	5,946.4	5,933.9	29.1	14.9	173.61	190.5	407.2	1,749.7	1,719.8	29.91	58.500		
6,300.0	6,142.7	6,042.8	6,030.1	29.4	15.1	173.71	193.1	413.1	1,776.2	1,745.7	30.49	58.252		
6,400.0	6,241.5	6,140.5	6,127.6	29.7	15.3	173.77	195.8	419.0	1,797.6	1,766.6	30.98	58.020		
6,500.0	6,341.0	6,239.1	6,226.0	29.9	15.6	173.80	198.4	425.0	1,813.9	1,782.5	31.38	57.807		
6,600.0	6,440.8	6,338.5	6,325.1	30.0	15.9	173.79	201.1	431.0	1,825.1	1,793.4	31.68	57.613		
6,643.2	6,484.0	6,381.5	6,368.1	30.1	16.0	83.19	202.3	433.6	1,828.3	1,796.5	31.78	57.529		
6,700.0	6,540.8	6,464.2	6,450.6	30.1	16.2	83.14	204.4	438.4	1,831.9	1,799.8	32.05	57.156		
6,800.0	6,640.8	6,654.5	6,640.8	30.2	16.5	83.12	205.4	440.7	1,832.1	1,799.5	32.57	56.242		
6,900.0	6,740.8	6,754.5	6,740.8	30.3	16.7	83.12	205.4	440.7	1,832.1	1,799.1	32.94	55.616		
7,000.0	6,840.8	6,854.5	6,840.8	30.4	16.9	83.12	205.4	440.7	1,832.1	1,798.8	33.31	55.001		
7,100.0	6,940.8	6,954.5	6,940.8	30.5	17.1	83.12	205.4	440.7	1,832.1	1,798.4	33.68	54.396		
7,200.0	7,040.8	7,054.5	7,040.8	30.6	17.3	83.12	205.4	440.7	1,832.1	1,798.0	34.05	53.801		
7,300.0	7,140.8	7,154.5	7,140.8	30.7	17.5	83.12	205.4	440.7	1,832.1	1,797.7	34.43	53.217		
7,400.0	7,240.8	7,254.5	7,240.8	30.8	17.7	83.12	205.4	440.7	1,832.1	1,797.3	34.80	52.642		
7,500.0	7,340.8	7,354.5	7,340.8	31.0	17.8	83.12	205.4	440.7	1,832.1	1,796.9	35.18	52.078		
7,600.0	7,440.8	7,454.5	7,440.8	31.1	18.0	83.12	205.4	440.7	1,832.1	1,796.5	35.56	51.522		
7,700.0	7,540.8	7,554.5	7,540.8	31.2	18.2	83.12	205.4	440.7	1,832.1	1,796.2	35.94	50.977		
7,800.0	7,640.8	7,654.5	7,640.8	31.3	18.4	83.12	205.4	440.7	1,832.1	1,795.8	36.32	50.441		
7,900.0	7,740.8	7,754.5	7,740.8	31.4	18.6	83.12	205.4	440.7	1,832.1	1,795.4	36.71	49.913		
8,000.0	7,840.8	7,854.5	7,840.8	31.5	18.8	83.12	205.4	440.7	1,832.1	1,795.0	37.09	49.395		
8,100.0	7,940.8	7,954.5	7,940.8	31.6	19.0	83.12	205.4	440.7	1,832.1	1,794.6	37.48	48.886		
8,200.0	8,040.8	8,054.5	8,040.8	31.8	19.2	83.12	205.4	440.7	1,832.1	1,794.2	37.86	48.386		
8,300.0	8,140.8	8,154.5	8,140.8	31.9	19.4	83.12	205.4	440.7	1,832.1	1,793.8	38.25	47.893		
8,400.0	8,240.8	8,254.5	8,240.8	32.0	19.6	83.12	205.4	440.7	1,832.1	1,793.4	38.64	47.410		
8,500.0	8,340.8	8,354.5	8,340.8	32.1	19.8	83.12	205.4	440.7	1,832.1	1,793.1	39.04	46.934		
8,600.0	8,440.8	8,454.5	8,440.8	32.3	20.0	83.12	205.4	440.7	1,832.1	1,792.7	39.43	46.467		
8,680.2	8,521.0	8,534.6	8,521.0	32.3	20.2	83.12	205.4	440.7	1,832.1	1,792.3	39.74	46.098		

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 12C-12 F12
Project:	Garfield County, CO	TVD Reference:	30' KB @ 8279.0usft (H&P 330)
Reference Site:	S12-T7S-R97W	MD Reference:	30' KB @ 8279.0usft (H&P 330)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 12C-12 F12	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S12-T7S-R97W - PUCKETT 22D-12 F12 - OH - Plan #2													Offset Site Error:	0.0 usft
Survey Program: 0-ISCSWA MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	84.42	1.8	18.6	18.7					
100.0	100.0	100.0	100.0	0.1	0.1	84.42	1.8	18.6	18.7	18.6	0.16	119.005		
200.0	200.0	200.0	200.0	0.3	0.3	84.42	1.8	18.6	18.7	18.1	0.61	30.853		
233.6	233.6	233.6	233.6	0.4	0.4	84.42	1.8	18.6	18.7	18.0	0.76	24.699 CC, ES		
300.0	300.0	299.7	299.7	0.5	0.5	85.17	1.6	19.0	19.1	18.0	1.05	18.230		
400.0	400.0	398.9	398.8	0.7	0.7	-179.21	-0.1	22.0	24.6	23.1	1.54	15.950 SF		
500.0	499.6	497.2	496.9	1.0	0.9	-174.33	-3.5	27.8	38.5	36.3	2.13	18.024		
600.0	598.8	595.2	594.6	1.3	1.2	-172.33	-7.2	34.3	58.4	55.7	2.73	21.435		
700.0	697.1	692.0	691.1	1.6	1.4	-171.82	-11.0	40.8	83.5	80.1	3.33	25.080		
750.7	746.5	740.6	739.5	1.8	1.6	-171.80	-12.9	44.1	98.1	94.4	3.63	26.976		
800.0	794.5	787.6	786.4	2.0	1.7	-171.89	-14.7	47.2	112.9	109.0	3.84	29.366		
900.0	891.7	883.0	881.5	2.5	1.9	-172.01	-18.4	53.6	142.9	138.6	4.28	33.360		
1,000.0	988.9	978.3	976.6	3.0	2.2	-172.09	-22.1	60.0	173.0	168.2	4.74	36.468		
1,100.0	1,086.1	1,073.7	1,071.7	3.4	2.4	-172.15	-25.8	66.4	203.0	197.8	5.21	38.932		
1,200.0	1,183.4	1,169.1	1,166.8	3.9	2.7	-172.19	-29.5	72.8	233.1	227.4	5.70	40.893		
1,300.0	1,280.6	1,264.5	1,261.9	4.4	2.9	-172.22	-33.2	79.2	263.1	256.9	6.19	42.524		
1,400.0	1,377.8	1,359.8	1,357.0	4.9	3.2	-172.24	-36.9	85.6	293.2	286.5	6.68	43.869		
1,500.0	1,475.1	1,455.2	1,452.0	5.4	3.5	-172.26	-40.6	92.0	323.2	316.0	7.18	45.001		
1,600.0	1,572.3	1,550.6	1,547.1	5.9	3.7	-172.28	-44.2	98.4	353.3	345.6	7.69	45.965		
1,700.0	1,669.5	1,646.0	1,642.2	6.4	4.0	-172.30	-47.9	104.8	383.3	375.1	8.19	46.795		
1,800.0	1,766.7	1,741.4	1,737.3	6.9	4.2	-172.31	-51.6	111.2	413.4	404.7	8.70	47.517		
1,900.0	1,864.0	1,836.7	1,832.4	7.4	4.5	-172.32	-55.3	117.6	443.4	434.2	9.21	48.151		
2,000.0	1,961.2	1,932.1	1,927.5	7.9	4.7	-172.33	-59.0	124.0	473.5	463.7	9.72	48.712		
2,100.0	2,058.4	2,027.5	2,022.6	8.4	5.0	-172.34	-62.7	130.4	503.5	493.3	10.23	49.213		
2,200.0	2,155.7	2,122.9	2,117.7	8.9	5.2	-172.34	-66.4	136.8	533.6	522.8	10.74	49.662		
2,300.0	2,252.9	2,218.2	2,212.8	9.4	5.5	-172.35	-70.1	143.2	563.6	552.4	11.26	50.069		
2,400.0	2,350.1	2,313.6	2,307.9	9.9	5.8	-172.36	-73.8	149.6	593.7	581.9	11.77	50.438		
2,500.0	2,447.3	2,409.0	2,403.0	10.4	6.0	-172.36	-77.5	156.0	623.7	611.4	12.28	50.775		
2,600.0	2,544.6	2,504.4	2,498.1	10.9	6.3	-172.37	-81.2	162.3	653.8	641.0	12.80	51.085		
2,700.0	2,641.8	2,599.8	2,593.1	11.4	6.5	-172.37	-84.9	168.7	683.8	670.5	13.31	51.371		
2,800.0	2,739.0	2,695.1	2,688.2	11.9	6.8	-172.37	-88.6	175.1	713.9	700.0	13.82	51.636		
2,900.0	2,836.3	2,790.5	2,783.3	12.4	7.0	-172.38	-92.3	181.5	743.9	729.6	14.34	51.883		
3,000.0	2,933.5	2,885.9	2,878.4	12.9	7.3	-172.38	-96.0	187.9	774.0	759.1	14.85	52.113		
3,100.0	3,030.7	2,981.3	2,973.5	13.4	7.5	-172.38	-99.6	194.3	804.0	788.7	15.36	52.329		
3,200.0	3,127.9	3,076.6	3,068.6	13.9	7.8	-172.39	-103.3	200.7	834.1	818.2	15.88	52.532		
3,300.0	3,225.2	3,172.0	3,163.7	14.4	8.1	-172.39	-107.0	207.1	864.1	847.7	16.39	52.723		
3,400.0	3,322.4	3,267.4	3,258.8	15.0	8.3	-172.39	-110.7	213.5	894.2	877.3	16.90	52.904		
3,500.0	3,419.6	3,362.8	3,353.9	15.5	8.6	-172.39	-114.4	219.9	924.2	906.8	17.41	53.075		
3,600.0	3,516.9	3,458.2	3,449.0	16.0	8.8	-172.40	-118.1	226.3	954.3	936.3	17.92	53.238		
3,700.0	3,614.1	3,553.5	3,544.1	16.5	9.1	-172.40	-121.8	232.7	984.3	965.9	18.44	53.393		
3,800.0	3,711.3	3,648.9	3,639.2	17.0	9.3	-172.40	-125.5	239.1	1,014.4	995.4	18.95	53.542		
3,900.0	3,808.5	3,744.3	3,734.2	17.5	9.6	-172.40	-129.2	245.5	1,044.4	1,025.0	19.46	53.684		
4,000.0	3,905.8	3,839.7	3,829.3	18.0	9.9	-172.40	-132.9	251.9	1,074.5	1,054.5	19.96	53.820		
4,100.0	4,003.0	3,935.1	3,924.4	18.5	10.1	-172.41	-136.6	258.3	1,104.5	1,084.0	20.47	53.950		
4,200.0	4,100.2	4,030.4	4,019.5	19.0	10.4	-172.41	-140.3	264.7	1,134.6	1,113.6	20.98	54.076		
4,300.0	4,197.4	4,125.8	4,114.6	19.5	10.6	-172.41	-144.0	271.1	1,164.6	1,143.1	21.49	54.197		
4,400.0	4,294.7	4,221.2	4,209.7	20.0	10.9	-172.41	-147.7	277.5	1,194.7	1,172.7	22.00	54.314		
4,500.0	4,391.9	4,316.6	4,304.8	20.5	11.1	-172.41	-151.4	283.9	1,224.7	1,202.2	22.50	54.427		
4,600.0	4,489.1	4,411.9	4,399.9	21.0	11.4	-172.41	-155.1	290.2	1,254.8	1,231.8	23.01	54.537		
4,700.0	4,586.4	4,507.3	4,495.0	21.5	11.7	-172.41	-158.7	296.6	1,284.8	1,261.3	23.51	54.643		
4,800.0	4,683.6	4,602.7	4,590.1	22.0	11.9	-172.41	-162.4	303.0	1,314.9	1,290.9	24.02	54.746		
4,900.0	4,780.8	4,698.1	4,685.2	22.5	12.2	-172.42	-166.1	309.4	1,344.9	1,320.4	24.52	54.847		

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

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 12C-12 F12
Project:	Garfield County, CO	TVD Reference:	30' KB @ 8279.0usft (H&P 330)
Reference Site:	S12-T7S-R97W	MD Reference:	30' KB @ 8279.0usft (H&P 330)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 12C-12 F12	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S12-T7S-R97W - PUCKETT 22D-12 F12 - OH - Plan #2													Offset Site Error:	0.0 usft
Survey Program: 0-ISCSWA MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
5,000.0	4,878.0	4,793.5	4,780.3	23.0	12.4	-172.42	-169.8	315.8	1,375.0	1,350.0	25.02	54.944		
5,100.0	4,975.3	4,888.8	4,875.3	23.5	12.7	-172.42	-173.5	322.2	1,405.0	1,379.5	25.53	55.040		
5,200.0	5,072.5	4,984.2	4,970.4	24.0	12.9	-172.42	-177.2	328.6	1,435.1	1,409.0	26.03	55.133		
5,300.0	5,169.7	5,079.6	5,065.5	24.5	13.2	-172.42	-180.9	335.0	1,465.1	1,438.6	26.53	55.223		
5,400.0	5,267.0	5,175.0	5,160.6	25.0	13.4	-172.42	-184.6	341.4	1,495.2	1,468.1	27.03	55.312		
5,500.0	5,364.2	5,270.3	5,255.7	25.5	13.7	-172.42	-188.3	347.8	1,525.2	1,497.7	27.53	55.399		
5,600.0	5,461.4	5,365.7	5,350.8	26.0	14.0	-172.42	-192.0	354.2	1,555.3	1,527.2	28.03	55.484		
5,700.0	5,558.6	5,461.1	5,445.9	26.5	14.2	-172.42	-195.7	360.6	1,585.3	1,556.8	28.53	55.567		
5,800.0	5,655.9	5,556.5	5,541.0	27.0	14.5	-172.42	-199.4	367.0	1,615.4	1,586.4	29.03	55.649		
5,900.0	5,753.1	5,651.9	5,636.1	27.5	14.7	-172.42	-203.1	373.4	1,645.4	1,615.9	29.53	55.729		
6,000.0	5,850.3	5,747.2	5,731.2	28.1	15.0	-172.43	-206.8	379.8	1,675.5	1,645.5	30.02	55.808		
6,100.0	5,947.6	5,842.6	5,826.3	28.6	15.2	-172.43	-210.5	386.2	1,705.5	1,675.0	30.52	55.886		
6,192.5	6,037.5	5,930.8	5,914.2	29.0	15.5	-172.43	-213.9	392.1	1,733.3	1,702.3	30.98	55.956		
6,200.0	6,044.8	5,938.0	5,921.4	29.1	15.5	-172.44	-214.1	392.6	1,735.6	1,704.5	31.03	55.938		
6,300.0	6,142.7	6,034.2	6,017.3	29.4	15.8	-172.53	-217.9	399.0	1,762.8	1,731.1	31.62	55.748		
6,400.0	6,241.5	6,131.7	6,114.5	29.7	16.0	-172.59	-221.6	405.6	1,784.9	1,752.8	32.12	55.564		
6,500.0	6,341.0	6,230.2	6,212.7	29.9	16.3	-172.60	-225.5	412.2	1,802.0	1,769.4	32.53	55.388		
6,600.0	6,440.8	6,329.5	6,311.7	30.0	16.6	-172.57	-229.3	418.8	1,813.9	1,781.1	32.85	55.222		
6,643.2	6,484.0	6,425.0	6,407.0	30.1	16.8	96.90	-232.3	424.0	1,816.9	1,783.9	33.04	54.986		
6,700.0	6,540.8	6,558.9	6,540.8	30.1	17.0	96.94	-233.8	426.6	1,818.1	1,784.7	33.37	54.488		
6,800.0	6,640.8	6,658.9	6,640.8	30.2	17.1	96.94	-233.8	426.6	1,818.1	1,784.4	33.71	53.940		
6,900.0	6,740.8	6,758.9	6,740.8	30.3	17.3	96.94	-233.8	426.6	1,818.1	1,784.1	34.04	53.408		
7,000.0	6,840.8	6,858.9	6,840.8	30.4	17.5	96.94	-233.8	426.6	1,818.1	1,783.7	34.38	52.881		
7,100.0	6,940.8	6,958.9	6,940.8	30.5	17.6	96.94	-233.8	426.6	1,818.1	1,783.4	34.72	52.361		
7,200.0	7,040.8	7,058.9	7,040.8	30.6	17.8	96.94	-233.8	426.6	1,818.1	1,783.0	35.07	51.848		
7,300.0	7,140.8	7,158.9	7,140.8	30.7	18.0	96.94	-233.8	426.6	1,818.1	1,782.7	35.41	51.341		
7,400.0	7,240.8	7,258.9	7,240.8	30.8	18.1	96.94	-233.8	426.6	1,818.1	1,782.3	35.76	50.840		
7,500.0	7,340.8	7,358.9	7,340.8	31.0	18.3	96.94	-233.8	426.6	1,818.1	1,782.0	36.11	50.347		
7,600.0	7,440.8	7,458.9	7,440.8	31.1	18.5	96.94	-233.8	426.6	1,818.1	1,781.6	36.46	49.859		
7,700.0	7,540.8	7,558.9	7,540.8	31.2	18.6	96.94	-233.8	426.6	1,818.1	1,781.3	36.82	49.378		
7,800.0	7,640.8	7,658.9	7,640.8	31.3	18.8	96.94	-233.8	426.6	1,818.1	1,780.9	37.18	48.904		
7,900.0	7,740.8	7,758.9	7,740.8	31.4	19.0	96.94	-233.8	426.6	1,818.1	1,780.6	37.54	48.436		
8,000.0	7,840.8	7,858.9	7,840.8	31.5	19.2	96.94	-233.8	426.6	1,818.1	1,780.2	37.90	47.974		
8,100.0	7,940.8	7,958.9	7,940.8	31.6	19.3	96.94	-233.8	426.6	1,818.1	1,779.8	38.26	47.519		
8,200.0	8,040.8	8,058.9	8,040.8	31.8	19.5	96.94	-233.8	426.6	1,818.1	1,779.5	38.63	47.070		
8,300.0	8,140.8	8,158.9	8,140.8	31.9	19.7	96.94	-233.8	426.6	1,818.1	1,779.1	38.99	46.627		
8,400.0	8,240.8	8,258.9	8,240.8	32.0	19.9	96.94	-233.8	426.6	1,818.1	1,778.7	39.36	46.191		
8,500.0	8,340.8	8,358.9	8,340.8	32.1	20.0	96.94	-233.8	426.6	1,818.1	1,778.4	39.73	45.761		
8,600.0	8,440.8	8,458.9	8,440.8	32.3	20.2	96.94	-233.8	426.6	1,818.1	1,778.0	40.10	45.336		
8,680.2	8,521.0	8,539.0	8,521.0	32.3	20.3	96.94	-233.8	426.6	1,818.1	1,777.7	40.36	45.043		

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 12C-12 F12
Project:	Garfield County, CO	TVD Reference:	30' KB @ 8279.0usft (H&P 330)
Reference Site:	S12-T7S-R97W	MD Reference:	30' KB @ 8279.0usft (H&P 330)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 12C-12 F12	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S12-T7S-R97W - PUCKETT 23A-12 F12 - OH - Plan #2													Offset Site Error:	0.0 usft
Survey Program: 0-ISCWSA MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	142.22	-8.0	6.2	10.1					
100.0	100.0	100.0	100.0	0.1	0.1	142.22	-8.0	6.2	10.1	10.0	0.16	64.440		
200.0	200.0	200.0	200.0	0.3	0.3	142.22	-8.0	6.2	10.1	9.5	0.61	16.707 CC, ES		
300.0	300.0	299.6	299.6	0.5	0.5	141.68	-9.3	7.4	11.9	10.8	1.04	11.462 SF		
400.0	400.0	398.8	398.7	0.7	0.7	-134.75	-13.2	10.8	18.8	17.3	1.52	12.387		
500.0	499.6	496.8	496.3	1.0	1.0	-143.02	-19.5	16.4	33.3	31.2	2.09	15.966		
600.0	598.8	594.1	592.9	1.3	1.2	-148.40	-27.6	23.5	54.7	52.0	2.70	20.243		
700.0	697.1	690.4	688.7	1.6	1.5	-152.34	-35.7	30.7	81.0	77.7	3.33	24.292		
750.7	746.5	738.8	736.7	1.8	1.7	-153.96	-39.8	34.3	96.1	92.5	3.66	26.254		
800.0	794.5	785.5	783.2	2.0	1.8	-155.40	-43.7	37.8	111.5	107.6	3.91	28.543		
900.0	891.7	880.4	877.5	2.5	2.1	-157.38	-51.7	44.8	142.8	138.3	4.41	32.376		
1,000.0	988.9	975.3	971.8	3.0	2.4	-158.65	-59.7	51.9	174.1	169.2	4.92	35.357		
1,100.0	1,086.1	1,070.2	1,066.1	3.4	2.7	-159.53	-67.6	58.9	205.5	200.1	5.45	37.717		
1,200.0	1,183.4	1,165.1	1,160.4	3.9	3.0	-160.18	-75.6	66.0	237.0	231.0	5.99	39.588		
1,300.0	1,280.6	1,260.0	1,254.7	4.4	3.3	-160.67	-83.6	73.0	268.4	261.9	6.53	41.138		
1,400.0	1,377.8	1,354.9	1,349.0	4.9	3.5	-161.06	-91.6	80.1	299.9	292.9	7.07	42.418		
1,500.0	1,475.1	1,449.8	1,443.3	5.4	3.8	-161.38	-99.5	87.1	331.4	323.8	7.62	43.494		
1,600.0	1,572.3	1,544.7	1,537.6	5.9	4.1	-161.64	-107.5	94.2	362.9	354.8	8.17	44.409		
1,700.0	1,669.5	1,639.6	1,631.9	6.4	4.4	-161.86	-115.5	101.2	394.4	385.7	8.73	45.197		
1,800.0	1,766.7	1,734.5	1,726.2	6.9	4.7	-162.05	-123.5	108.3	425.9	416.7	9.28	45.882		
1,900.0	1,864.0	1,829.4	1,820.5	7.4	5.0	-162.21	-131.4	115.3	457.5	447.6	9.84	46.484		
2,000.0	1,961.2	1,924.3	1,914.7	7.9	5.3	-162.35	-139.4	122.4	489.0	478.6	10.40	47.016		
2,100.0	2,058.4	2,019.2	2,009.0	8.4	5.6	-162.48	-147.4	129.5	520.5	509.5	10.96	47.491		
2,200.0	2,155.7	2,114.1	2,103.3	8.9	5.9	-162.59	-155.4	136.5	552.0	540.5	11.52	47.917		
2,300.0	2,252.9	2,209.0	2,197.6	9.4	6.2	-162.69	-163.4	143.6	583.5	571.5	12.08	48.302		
2,400.0	2,350.1	2,303.9	2,291.9	9.9	6.5	-162.77	-171.3	150.6	615.1	602.4	12.64	48.652		
2,500.0	2,447.3	2,398.8	2,386.2	10.4	6.8	-162.85	-179.3	157.7	646.6	633.4	13.20	48.972		
2,600.0	2,544.6	2,493.7	2,480.5	10.9	7.1	-162.92	-187.3	164.7	678.1	664.4	13.76	49.267		
2,700.0	2,641.8	2,588.6	2,574.8	11.4	7.4	-162.99	-195.3	171.8	709.6	695.3	14.33	49.538		
2,800.0	2,739.0	2,683.5	2,669.1	11.9	7.7	-163.05	-203.2	178.8	741.2	726.3	14.89	49.789		
2,900.0	2,836.3	2,778.4	2,763.4	12.4	8.0	-163.10	-211.2	185.9	772.7	757.3	15.45	50.023		
3,000.0	2,933.5	2,873.3	2,857.7	12.9	8.3	-163.16	-219.2	192.9	804.2	788.2	16.01	50.242		
3,100.0	3,030.7	2,968.1	2,952.0	13.4	8.6	-163.20	-227.2	200.0	835.8	819.2	16.57	50.446		
3,200.0	3,127.9	3,063.0	3,046.3	13.9	8.9	-163.25	-235.1	207.0	867.3	850.2	17.13	50.639		
3,300.0	3,225.2	3,157.9	3,140.6	14.4	9.2	-163.29	-243.1	214.1	898.8	881.1	17.69	50.820		
3,400.0	3,322.4	3,252.8	3,234.9	15.0	9.5	-163.32	-251.1	221.1	930.4	912.1	18.25	50.991		
3,500.0	3,419.6	3,347.7	3,329.2	15.5	9.8	-163.36	-259.1	228.2	961.9	943.1	18.80	51.154		
3,600.0	3,516.9	3,442.6	3,423.5	16.0	10.0	-163.39	-267.0	235.2	993.4	974.1	19.36	51.308		
3,700.0	3,614.1	3,537.5	3,517.8	16.5	10.3	-163.42	-275.0	242.3	1,025.0	1,005.0	19.92	51.455		
3,800.0	3,711.3	3,632.4	3,612.1	17.0	10.6	-163.45	-283.0	249.3	1,056.5	1,036.0	20.48	51.596		
3,900.0	3,808.5	3,727.3	3,706.4	17.5	10.9	-163.48	-291.0	256.4	1,088.0	1,067.0	21.03	51.730		
4,000.0	3,905.8	3,822.2	3,800.7	18.0	11.2	-163.51	-299.0	263.4	1,119.6	1,098.0	21.59	51.859		
4,100.0	4,003.0	3,917.1	3,895.0	18.5	11.5	-163.53	-306.9	270.5	1,151.1	1,128.9	22.14	51.982		
4,200.0	4,100.2	4,012.0	3,989.3	19.0	11.8	-163.55	-314.9	277.6	1,182.6	1,159.9	22.70	52.101		
4,300.0	4,197.4	4,106.9	4,083.6	19.5	12.1	-163.58	-322.9	284.6	1,214.2	1,190.9	23.25	52.216		
4,400.0	4,294.7	4,201.8	4,177.9	20.0	12.4	-163.60	-330.9	291.7	1,245.7	1,221.9	23.81	52.327		
4,500.0	4,391.9	4,296.7	4,272.2	20.5	12.7	-163.62	-338.8	298.7	1,277.2	1,252.9	24.36	52.434		
4,600.0	4,489.1	4,391.6	4,366.5	21.0	13.0	-163.63	-346.8	305.8	1,308.8	1,283.8	24.91	52.537		
4,700.0	4,586.4	4,486.5	4,460.8	21.5	13.3	-163.65	-354.8	312.8	1,340.3	1,314.8	25.46	52.638		
4,800.0	4,683.6	4,581.4	4,555.1	22.0	13.6	-163.67	-362.8	319.9	1,371.8	1,345.8	26.01	52.735		
4,900.0	4,780.8	4,676.3	4,649.4	22.5	13.9	-163.69	-370.7	326.9	1,403.4	1,376.8	26.56	52.830		
5,000.0	4,878.0	4,771.2	4,743.7	23.0	14.2	-163.70	-378.7	334.0	1,434.9	1,407.8	27.11	52.922		

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

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 12C-12 F12
Project:	Garfield County, CO	TVD Reference:	30' KB @ 8279.0usft (H&P 330)
Reference Site:	S12-T7S-R97W	MD Reference:	30' KB @ 8279.0usft (H&P 330)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 12C-12 F12	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S12-T7S-R97W - PUCKETT 23A-12 F12 - OH - Plan #2													Offset Site Error: 0.0 usft	
Survey Program: 0-ISCSWA MWD													Offset Well Error: 0.0 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor		
5,100.0	4,975.3	4,866.1	4,838.0	23.5	14.5	-163.72	-386.7	341.0	1,466.4	1,438.8	27.66	53.012		
5,200.0	5,072.5	4,961.0	4,932.3	24.0	14.8	-163.73	-394.7	348.1	1,498.0	1,469.8	28.21	53.100		
5,300.0	5,169.7	5,055.9	5,026.6	24.5	15.1	-163.75	-402.6	355.1	1,529.5	1,500.7	28.76	53.185		
5,400.0	5,267.0	5,150.8	5,120.9	25.0	15.4	-163.76	-410.6	362.2	1,561.0	1,531.7	29.30	53.269		
5,500.0	5,364.2	5,245.7	5,215.2	25.5	15.7	-163.77	-418.6	369.2	1,592.6	1,562.7	29.85	53.351		
5,600.0	5,461.4	5,340.6	5,309.5	26.0	16.0	-163.78	-426.6	376.3	1,624.1	1,593.7	30.40	53.431		
5,700.0	5,558.6	5,435.5	5,403.8	26.5	16.3	-163.80	-434.6	383.3	1,655.6	1,624.7	30.94	53.509		
5,800.0	5,655.9	5,530.4	5,498.1	27.0	16.6	-163.81	-442.5	390.4	1,687.2	1,655.7	31.49	53.586		
5,900.0	5,753.1	5,625.3	5,592.4	27.5	16.9	-163.82	-450.5	397.4	1,718.7	1,686.7	32.03	53.662		
6,000.0	5,850.3	5,720.2	5,686.7	28.1	17.2	-163.83	-458.5	404.5	1,750.2	1,717.7	32.57	53.736		
6,100.0	5,947.6	5,815.1	5,781.0	28.6	17.5	-163.84	-466.5	411.5	1,781.8	1,748.7	33.11	53.808		
6,192.5	6,037.5	5,902.8	5,868.1	29.0	17.7	-163.85	-473.8	418.1	1,810.9	1,777.3	33.61	53.875		
6,200.0	6,044.8	5,910.0	5,875.3	29.1	17.7	-163.87	-474.4	418.6	1,813.3	1,779.6	33.67	53.859		
6,300.0	6,142.7	6,005.7	5,970.4	29.4	18.0	-164.10	-482.5	425.7	1,842.1	1,807.8	34.30	53.700		
6,400.0	6,241.5	6,102.8	6,066.9	29.7	18.3	-164.24	-490.6	432.9	1,866.0	1,831.1	34.85	53.541		
6,500.0	6,341.0	6,200.9	6,164.4	29.9	18.7	-164.29	-498.9	440.2	1,885.0	1,849.7	35.31	53.384		
6,600.0	6,440.8	6,368.6	6,331.3	30.0	19.1	-164.19	-511.0	450.9	1,898.0	1,862.2	35.78	53.050		
6,643.2	6,484.0	6,465.4	6,427.9	30.1	19.2	105.28	-514.8	454.3	1,900.4	1,864.4	35.96	52.847		
6,700.0	6,540.8	6,578.3	6,540.8	30.1	19.4	105.31	-516.1	455.4	1,901.0	1,864.8	36.24	52.461		
6,800.0	6,640.8	6,678.3	6,640.8	30.2	19.5	105.31	-516.1	455.4	1,901.0	1,864.5	36.54	52.020		
6,900.0	6,740.8	6,778.3	6,740.8	30.3	19.7	105.31	-516.1	455.4	1,901.0	1,864.2	36.85	51.588		
7,000.0	6,840.8	6,878.3	6,840.8	30.4	19.8	105.31	-516.1	455.4	1,901.0	1,863.9	37.16	51.160		
7,100.0	6,940.8	6,978.3	6,940.8	30.5	19.9	105.31	-516.1	455.4	1,901.0	1,863.6	37.47	50.734		
7,200.0	7,040.8	7,078.3	7,040.8	30.6	20.1	105.31	-516.1	455.4	1,901.0	1,863.3	37.79	50.311		
7,300.0	7,140.8	7,178.3	7,140.8	30.7	20.2	105.31	-516.1	455.4	1,901.0	1,862.9	38.10	49.892		
7,400.0	7,240.8	7,278.3	7,240.8	30.8	20.4	105.31	-516.1	455.4	1,901.0	1,862.6	38.42	49.476		
7,500.0	7,340.8	7,378.3	7,340.8	31.0	20.5	105.31	-516.1	455.4	1,901.0	1,862.3	38.75	49.064		
7,600.0	7,440.8	7,478.3	7,440.8	31.1	20.7	105.31	-516.1	455.4	1,901.0	1,862.0	39.07	48.656		
7,700.0	7,540.8	7,578.3	7,540.8	31.2	20.8	105.31	-516.1	455.4	1,901.0	1,861.6	39.40	48.251		
7,800.0	7,640.8	7,678.3	7,640.8	31.3	21.0	105.31	-516.1	455.4	1,901.0	1,861.3	39.73	47.849		
7,900.0	7,740.8	7,778.3	7,740.8	31.4	21.1	105.31	-516.1	455.4	1,901.0	1,861.0	40.06	47.452		
8,000.0	7,840.8	7,878.3	7,840.8	31.5	21.3	105.31	-516.1	455.4	1,901.0	1,860.6	40.40	47.058		
8,100.0	7,940.8	7,978.3	7,940.8	31.6	21.4	105.31	-516.1	455.4	1,901.0	1,860.3	40.73	46.669		
8,200.0	8,040.8	8,078.3	8,040.8	31.8	21.6	105.31	-516.1	455.4	1,901.0	1,860.0	41.07	46.283		
8,300.0	8,140.8	8,178.3	8,140.8	31.9	21.7	105.31	-516.1	455.4	1,901.0	1,859.6	41.42	45.901		
8,400.0	8,240.8	8,278.3	8,240.8	32.0	21.9	105.31	-516.1	455.4	1,901.0	1,859.3	41.76	45.523		
8,500.0	8,340.8	8,378.3	8,340.8	32.1	22.0	105.31	-516.1	455.4	1,901.0	1,858.9	42.11	45.149		
8,600.0	8,440.8	8,478.3	8,440.8	32.3	22.2	105.31	-516.1	455.4	1,901.0	1,858.6	42.45	44.779		
8,680.2	8,521.0	8,558.5	8,521.0	32.3	22.3	105.31	-516.1	455.4	1,901.0	1,858.3	42.73	44.486		

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 12C-12 F12
Project:	Garfield County, CO	TVD Reference:	30' KB @ 8279.0usft (H&P 330)
Reference Site:	S12-T7S-R97W	MD Reference:	30' KB @ 8279.0usft (H&P 330)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 12C-12 F12	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S12-T7S-R97W - PUCKETT 23B-12 F12 - OH - Plan #2													Offset Site Error:	0.0 usft
Survey Program: 0-ISCSWA MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis				Distance					Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	177.53	-13.1	0.6	13.1					
100.0	100.0	100.0	100.0	0.1	0.1	177.53	-13.1	0.6	13.1	13.0	0.16	83.416		
200.0	200.0	200.0	200.0	0.3	0.3	177.53	-13.1	0.6	13.1	12.5	0.61	21.626		
233.5	233.5	233.5	233.5	0.4	0.4	177.53	-13.1	0.6	13.1	12.4	0.76	17.323 CC, ES		
300.0	300.0	299.8	299.8	0.5	0.5	176.75	-13.5	0.8	13.5	12.5	1.04	12.956		
400.0	400.0	399.1	399.1	0.7	0.7	-106.04	-16.5	2.4	17.3	15.8	1.47	11.751 SF		
500.0	499.6	497.6	497.3	1.0	0.9	-124.29	-22.6	5.5	27.7	25.7	2.00	13.854		
600.0	598.8	594.4	593.5	1.3	1.2	-135.56	-31.4	10.2	46.2	43.6	2.62	17.621		
700.0	697.1	688.8	687.1	1.6	1.5	-141.56	-42.8	16.2	72.4	69.1	3.29	22.000		
750.7	746.5	736.5	734.2	1.8	1.6	-143.55	-49.4	19.7	88.4	84.7	3.64	24.256		
800.0	794.5	783.0	780.1	2.0	1.8	-145.32	-55.9	23.1	104.5	100.6	3.92	26.630		
900.0	891.7	877.3	873.3	2.5	2.1	-147.64	-69.1	30.0	137.4	132.9	4.49	30.592		
1,000.0	988.9	971.7	966.4	3.0	2.5	-149.07	-82.3	36.9	170.4	165.3	5.07	33.610		
1,100.0	1,086.1	1,066.0	1,059.6	3.4	2.8	-150.03	-95.5	43.8	203.5	197.8	5.66	35.940		
1,200.0	1,183.4	1,160.3	1,152.7	3.9	3.1	-150.72	-108.7	50.8	236.6	230.3	6.27	37.762		
1,300.0	1,280.6	1,254.7	1,245.8	4.4	3.5	-151.24	-121.8	57.7	269.7	262.8	6.88	39.229		
1,400.0	1,377.8	1,349.0	1,339.0	4.9	3.8	-151.65	-135.0	64.6	302.9	295.4	7.49	40.429		
1,500.0	1,475.1	1,443.3	1,432.1	5.4	4.2	-151.98	-148.2	71.5	336.0	327.9	8.11	41.423		
1,600.0	1,572.3	1,537.6	1,525.3	5.9	4.6	-152.25	-161.4	78.5	369.2	360.5	8.74	42.259		
1,700.0	1,669.5	1,632.0	1,618.4	6.4	4.9	-152.47	-174.6	85.4	402.4	393.0	9.36	42.971		
1,800.0	1,766.7	1,726.3	1,711.6	6.9	5.3	-152.66	-187.8	92.3	435.5	425.6	9.99	43.584		
1,900.0	1,864.0	1,820.6	1,804.7	7.4	5.6	-152.83	-200.9	99.2	468.7	458.1	10.62	44.118		
2,000.0	1,961.2	1,914.9	1,897.9	7.9	6.0	-152.97	-214.1	106.2	501.9	490.7	11.26	44.588		
2,100.0	2,058.4	2,009.3	1,991.0	8.4	6.3	-153.09	-227.3	113.1	535.1	523.2	11.89	45.004		
2,200.0	2,155.7	2,103.6	2,084.1	8.9	6.7	-153.20	-240.5	120.0	568.3	555.8	12.52	45.376		
2,300.0	2,252.9	2,197.9	2,177.3	9.4	7.0	-153.30	-253.7	126.9	601.5	588.3	13.16	45.710		
2,400.0	2,350.1	2,292.2	2,270.4	9.9	7.4	-153.39	-266.8	133.9	634.7	620.9	13.79	46.013		
2,500.0	2,447.3	2,386.6	2,363.6	10.4	7.7	-153.46	-280.0	140.8	667.9	653.4	14.43	46.288		
2,600.0	2,544.6	2,480.9	2,456.7	10.9	8.1	-153.54	-293.2	147.7	701.1	686.0	15.06	46.540		
2,700.0	2,641.8	2,575.2	2,549.9	11.4	8.5	-153.60	-306.4	154.6	734.3	718.6	15.70	46.772		
2,800.0	2,739.0	2,669.5	2,643.0	11.9	8.8	-153.66	-319.6	161.6	767.5	751.1	16.33	46.987		
2,900.0	2,836.3	2,763.9	2,736.1	12.4	9.2	-153.71	-332.7	168.5	800.7	783.7	16.97	47.186		
3,000.0	2,933.5	2,858.2	2,829.3	12.9	9.5	-153.76	-345.9	175.4	833.9	816.3	17.60	47.371		
3,100.0	3,030.7	2,952.5	2,922.4	13.4	9.9	-153.81	-359.1	182.4	867.1	848.8	18.24	47.544		
3,200.0	3,127.9	3,046.8	3,015.6	13.9	10.2	-153.85	-372.3	189.3	900.3	881.4	18.87	47.707		
3,300.0	3,225.2	3,141.2	3,108.7	14.4	10.6	-153.89	-385.5	196.2	933.5	914.0	19.50	47.860		
3,400.0	3,322.4	3,235.5	3,201.9	15.0	10.9	-153.93	-398.7	203.1	966.7	946.5	20.14	48.005		
3,500.0	3,419.6	3,329.8	3,295.0	15.5	11.3	-153.96	-411.8	210.1	999.9	979.1	20.77	48.141		
3,600.0	3,516.9	3,424.2	3,388.1	16.0	11.7	-154.00	-425.0	217.0	1,033.1	1,011.7	21.40	48.271		
3,700.0	3,614.1	3,518.5	3,481.3	16.5	12.0	-154.03	-438.2	223.9	1,066.3	1,044.2	22.03	48.395		
3,800.0	3,711.3	3,612.8	3,574.4	17.0	12.4	-154.06	-451.4	230.8	1,099.5	1,076.8	22.66	48.512		
3,900.0	3,808.5	3,707.1	3,667.6	17.5	12.7	-154.08	-464.6	237.8	1,132.7	1,109.4	23.29	48.625		
4,000.0	3,905.8	3,801.5	3,760.7	18.0	13.1	-154.11	-477.7	244.7	1,165.9	1,141.9	23.92	48.733		
4,100.0	4,003.0	3,895.8	3,853.9	18.5	13.4	-154.13	-490.9	251.6	1,199.1	1,174.5	24.55	48.837		
4,200.0	4,100.2	3,990.1	3,947.0	19.0	13.8	-154.15	-504.1	258.5	1,232.3	1,207.1	25.18	48.936		
4,300.0	4,197.4	4,084.4	4,040.2	19.5	14.2	-154.18	-517.3	265.5	1,265.5	1,239.7	25.81	49.032		
4,400.0	4,294.7	4,178.8	4,133.3	20.0	14.5	-154.20	-530.5	272.4	1,298.7	1,272.2	26.44	49.125		
4,500.0	4,391.9	4,273.1	4,226.4	20.5	14.9	-154.21	-543.7	279.3	1,331.9	1,304.8	27.06	49.214		
4,600.0	4,489.1	4,367.4	4,319.6	21.0	15.2	-154.23	-556.8	286.2	1,365.1	1,337.4	27.69	49.301		
4,700.0	4,586.4	4,461.7	4,412.7	21.5	15.6	-154.25	-570.0	293.2	1,398.3	1,370.0	28.31	49.385		
4,800.0	4,683.6	4,556.1	4,505.9	22.0	15.9	-154.27	-583.2	300.1	1,431.5	1,402.5	28.94	49.466		
4,900.0	4,780.8	4,650.4	4,599.0	22.5	16.3	-154.28	-596.4	307.0	1,464.7	1,435.1	29.56	49.545		

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

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 12C-12 F12
Project:	Garfield County, CO	TVD Reference:	30' KB @ 8279.0usft (H&P 330)
Reference Site:	S12-T7S-R97W	MD Reference:	30' KB @ 8279.0usft (H&P 330)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 12C-12 F12	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S12-T7S-R97W - PUCKETT 23B-12 F12 - OH - Plan #2													Offset Site Error: 0.0 usft	
Survey Program: 0-ISCSWA MWD													Offset Well Error: 0.0 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor		
5,000.0	4,878.0	4,744.7	4,692.2	23.0	16.6	-154.30	-609.6	313.9	1,497.9	1,467.7	30.19	49.622		
5,100.0	4,975.3	4,839.0	4,785.3	23.5	17.0	-154.31	-622.7	320.9	1,531.1	1,500.3	30.81	49.697		
5,200.0	5,072.5	4,933.4	4,878.4	24.0	17.4	-154.33	-635.9	327.8	1,564.3	1,532.9	31.43	49.771		
5,300.0	5,169.7	5,027.7	4,971.6	24.5	17.7	-154.34	-649.1	334.7	1,597.5	1,565.5	32.05	49.842		
5,400.0	5,267.0	5,122.0	5,064.7	25.0	18.1	-154.35	-662.3	341.6	1,630.7	1,598.0	32.67	49.912		
5,500.0	5,364.2	5,216.3	5,157.9	25.5	18.4	-154.37	-675.5	348.6	1,663.9	1,630.6	33.29	49.980		
5,600.0	5,461.4	5,310.7	5,251.0	26.0	18.8	-154.38	-688.7	355.5	1,697.1	1,663.2	33.91	50.047		
5,700.0	5,558.6	5,405.0	5,344.2	26.5	19.1	-154.39	-701.8	362.4	1,730.3	1,695.8	34.53	50.112		
5,800.0	5,655.9	5,499.3	5,437.3	27.0	19.5	-154.40	-715.0	369.3	1,763.5	1,728.4	35.15	50.176		
5,900.0	5,753.1	5,593.7	5,530.4	27.5	19.9	-154.41	-728.2	376.3	1,796.7	1,761.0	35.76	50.239		
6,000.0	5,850.3	5,688.0	5,623.6	28.1	20.2	-154.42	-741.4	383.2	1,829.9	1,793.5	36.38	50.301		
6,100.0	5,947.6	5,782.3	5,716.7	28.6	20.6	-154.43	-754.6	390.1	1,863.1	1,826.1	36.99	50.362		
6,192.5	6,037.5	5,869.5	5,802.9	29.0	20.9	-154.44	-766.7	396.5	1,893.8	1,856.3	37.56	50.417		
6,200.0	6,044.8	5,876.6	5,809.9	29.1	20.9	-154.47	-767.7	397.0	1,896.3	1,858.7	37.62	50.404		
6,300.0	6,142.7	5,971.8	5,903.9	29.4	21.3	-154.86	-781.0	404.0	1,926.9	1,888.6	38.33	50.273		
6,400.0	6,241.5	6,068.3	5,999.1	29.7	21.7	-155.10	-794.5	411.1	1,953.0	1,914.1	38.95	50.140		
6,500.0	6,341.0	6,200.2	6,129.5	29.9	22.1	-155.16	-812.3	420.5	1,974.3	1,934.7	39.56	49.908		
6,600.0	6,440.8	6,418.2	6,346.4	30.0	22.6	-155.06	-831.3	430.4	1,986.4	1,946.3	40.10	49.533		
6,643.2	6,484.0	6,513.5	6,441.6	30.1	22.7	114.39	-835.0	432.4	1,988.3	1,948.0	40.29	49.355		
6,700.0	6,540.8	6,612.7	6,540.8	30.1	22.8	114.41	-835.9	432.9	1,988.7	1,948.2	40.52	49.082		
6,800.0	6,640.8	6,712.7	6,640.8	30.2	22.9	114.41	-835.9	432.9	1,988.7	1,947.9	40.79	48.757		
6,900.0	6,740.8	6,812.7	6,740.8	30.3	23.1	114.41	-835.9	432.9	1,988.7	1,947.6	41.06	48.433		
7,000.0	6,840.8	6,912.7	6,840.8	30.4	23.2	114.41	-835.9	432.9	1,988.7	1,947.4	41.34	48.109		
7,100.0	6,940.8	7,012.7	6,940.8	30.5	23.3	114.41	-835.9	432.9	1,988.7	1,947.1	41.62	47.786		
7,200.0	7,040.8	7,112.7	7,040.8	30.6	23.4	114.41	-835.9	432.9	1,988.7	1,946.8	41.90	47.464		
7,300.0	7,140.8	7,212.7	7,140.8	30.7	23.5	114.41	-835.9	432.9	1,988.7	1,946.5	42.19	47.142		
7,400.0	7,240.8	7,312.7	7,240.8	30.8	23.6	114.41	-835.9	432.9	1,988.7	1,946.2	42.47	46.822		
7,500.0	7,340.8	7,412.7	7,340.8	31.0	23.8	114.41	-835.9	432.9	1,988.7	1,945.9	42.77	46.503		
7,600.0	7,440.8	7,512.7	7,440.8	31.1	23.9	114.41	-835.9	432.9	1,988.7	1,945.6	43.06	46.185		
7,700.0	7,540.8	7,612.7	7,540.8	31.2	24.0	114.41	-835.9	432.9	1,988.7	1,945.3	43.36	45.869		
7,800.0	7,640.8	7,712.7	7,640.8	31.3	24.1	114.41	-835.9	432.9	1,988.7	1,945.0	43.66	45.554		
7,900.0	7,740.8	7,812.7	7,740.8	31.4	24.2	114.41	-835.9	432.9	1,988.7	1,944.7	43.96	45.241		
8,000.0	7,840.8	7,912.7	7,840.8	31.5	24.4	114.41	-835.9	432.9	1,988.7	1,944.4	44.26	44.929		
8,100.0	7,940.8	8,012.7	7,940.8	31.6	24.5	114.41	-835.9	432.9	1,988.7	1,944.1	44.57	44.619		
8,200.0	8,040.8	8,112.7	8,040.8	31.8	24.6	114.41	-835.9	432.9	1,988.7	1,943.8	44.88	44.311		
8,300.0	8,140.8	8,212.7	8,140.8	31.9	24.8	114.41	-835.9	432.9	1,988.7	1,943.5	45.19	44.005		
8,400.0	8,240.8	8,312.7	8,240.8	32.0	24.9	114.41	-835.9	432.9	1,988.7	1,943.2	45.51	43.700		
8,500.0	8,340.8	8,412.7	8,340.8	32.1	25.0	114.41	-835.9	432.9	1,988.7	1,942.9	45.82	43.398		
8,600.0	8,440.8	8,512.7	8,440.8	32.3	25.2	114.41	-835.9	432.9	1,988.7	1,942.6	46.14	43.098		
8,680.2	8,521.0	8,592.9	8,521.0	32.3	25.3	114.41	-835.9	432.9	1,988.7	1,942.3	46.40	42.858		

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 12C-12 F12
Project:	Garfield County, CO	TVD Reference:	30' KB @ 8279.0usft (H&P 330)
Reference Site:	S12-T7S-R97W	MD Reference:	30' KB @ 8279.0usft (H&P 330)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 12C-12 F12	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S12-T7S-R97W - PUCKETT 32C-12 F12 - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-ISCWSA MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Uncertainty Axis			
0.0	0.0	0.0	0.0	0.0	0.0	60.15	32.4	56.5	65.1					
100.0	100.0	100.0	100.0	0.1	0.1	60.15	32.4	56.5	65.1	64.9	0.16	413.799		
200.0	200.0	200.0	200.0	0.3	0.3	60.15	32.4	56.5	65.1	64.5	0.61	107.281		
233.4	233.4	233.4	233.4	0.4	0.4	60.15	32.4	56.5	65.1	64.3	0.76	85.983 CC, ES		
300.0	300.0	298.6	298.6	0.5	0.5	60.45	32.4	57.1	65.6	64.6	1.05	62.664		
400.0	400.0	395.3	395.2	0.7	0.7	154.03	32.1	62.0	72.3	70.8	1.55	46.724		
500.0	499.6	490.1	489.5	1.0	1.0	159.12	31.6	71.5	88.5	86.3	2.14	41.270		
600.0	598.8	581.7	580.0	1.3	1.3	164.05	30.8	85.2	114.6	111.8	2.78	41.149 SF		
700.0	697.1	668.8	665.4	1.6	1.6	167.91	29.9	102.1	150.4	147.0	3.43	43.827		
750.7	746.5	710.9	706.5	1.8	1.8	169.43	29.3	111.7	172.1	168.3	3.75	45.831		
800.0	794.5	750.8	745.0	2.0	2.0	170.79	28.8	121.6	194.8	190.8	3.98	48.994		
900.0	891.7	832.7	823.8	2.5	2.4	172.94	27.5	144.2	243.5	239.0	4.45	54.769		
1,000.0	988.9	919.4	906.9	3.0	2.9	174.49	26.2	168.7	293.0	288.1	4.89	59.930		
1,100.0	1,086.1	1,006.0	990.1	3.4	3.3	175.60	24.8	193.2	342.6	337.2	5.35	64.081		
1,200.0	1,183.4	1,092.7	1,073.2	3.9	3.8	176.43	23.4	217.7	392.3	386.5	5.82	67.448		
1,300.0	1,280.6	1,179.4	1,156.3	4.4	4.3	177.07	22.1	242.1	442.0	435.7	6.30	70.119		
1,400.0	1,377.8	1,266.0	1,239.4	4.9	4.8	177.59	20.7	266.6	491.8	485.0	6.79	72.473		
1,500.0	1,475.1	1,352.7	1,322.5	5.4	5.3	178.01	19.3	291.1	541.6	534.3	7.28	74.402		
1,600.0	1,572.3	1,439.3	1,405.6	5.9	5.8	178.35	18.0	315.6	591.4	583.6	7.78	76.037		
1,700.0	1,669.5	1,526.0	1,488.8	6.4	6.4	178.65	16.6	340.0	641.2	632.9	8.28	77.438		
1,800.0	1,766.7	1,612.6	1,571.9	6.9	6.9	178.90	15.2	364.5	691.1	682.3	8.79	78.650		
1,900.0	1,864.0	1,699.3	1,655.0	7.4	7.4	179.12	13.9	389.0	740.9	731.6	9.30	79.708		
2,000.0	1,961.2	1,786.0	1,738.1	7.9	7.9	179.31	12.5	413.5	790.8	781.0	9.81	80.639		
2,100.0	2,058.4	1,872.6	1,821.2	8.4	8.4	179.48	11.2	437.9	840.6	830.3	10.32	81.465		
2,200.0	2,155.7	1,959.3	1,904.4	8.9	8.9	179.63	9.8	462.4	890.5	879.7	10.83	82.204		
2,300.0	2,252.9	2,045.9	1,987.5	9.4	9.4	179.76	8.4	486.9	940.4	929.0	11.35	82.869		
2,400.0	2,350.1	2,132.6	2,070.6	9.9	9.9	179.88	7.1	511.4	990.2	978.4	11.86	83.471		
2,500.0	2,447.3	2,219.3	2,153.7	10.4	10.4	179.99	5.7	535.8	1,040.1	1,027.7	12.38	84.019		
2,600.0	2,544.6	2,305.9	2,236.8	10.9	11.0	-179.91	4.3	560.3	1,090.0	1,077.1	12.90	84.521		
2,700.0	2,641.8	2,392.6	2,320.0	11.4	11.5	-179.82	3.0	584.8	1,139.9	1,126.5	13.41	84.984		
2,800.0	2,739.0	2,479.2	2,403.1	11.9	12.0	-179.74	1.6	609.3	1,189.8	1,175.8	13.93	85.412		
2,900.0	2,836.3	2,565.9	2,486.2	12.4	12.5	-179.67	0.3	633.7	1,239.6	1,225.2	14.45	85.809		
3,000.0	2,933.5	2,652.5	2,569.3	12.9	13.0	-179.60	-1.1	658.2	1,289.5	1,274.6	14.96	86.180		
3,100.0	3,030.7	2,739.2	2,652.4	13.4	13.5	-179.53	-2.5	682.7	1,339.4	1,323.9	15.48	86.527		
3,200.0	3,127.9	2,825.9	2,735.5	13.9	14.0	-179.47	-3.8	707.2	1,389.3	1,373.3	16.00	86.853		
3,300.0	3,225.2	2,912.5	2,818.7	14.4	14.5	-179.42	-5.2	731.6	1,439.2	1,422.7	16.51	87.161		
3,400.0	3,322.4	2,999.2	2,901.8	15.0	15.1	-179.36	-6.6	756.1	1,489.1	1,472.1	17.03	87.451		
3,500.0	3,419.6	3,085.8	2,984.9	15.5	15.6	-179.31	-7.9	780.6	1,539.0	1,521.4	17.54	87.728		
3,600.0	3,516.9	3,172.5	3,068.0	16.0	16.1	-179.27	-9.3	805.1	1,588.9	1,570.8	18.06	87.991		
3,700.0	3,614.1	3,259.1	3,151.1	16.5	16.6	-179.23	-10.7	829.5	1,638.8	1,620.2	18.57	88.242		
3,800.0	3,711.3	3,345.8	3,234.3	17.0	17.1	-179.19	-12.0	854.0	1,688.7	1,669.6	19.08	88.483		
3,900.0	3,808.5	3,432.5	3,317.4	17.5	17.6	-179.15	-13.4	878.5	1,738.5	1,719.0	19.60	88.713		
4,000.0	3,905.8	3,519.1	3,400.5	18.0	18.1	-179.11	-14.7	903.0	1,788.4	1,768.3	20.11	88.934		
4,100.0	4,003.0	3,605.8	3,483.6	18.5	18.6	-179.08	-16.1	927.4	1,838.3	1,817.7	20.62	89.147		
4,200.0	4,100.2	3,692.4	3,566.7	19.0	19.2	-179.05	-17.5	951.9	1,888.2	1,867.1	21.13	89.353		
4,300.0	4,197.4	3,779.1	3,649.9	19.5	19.7	-179.02	-18.8	976.4	1,938.1	1,916.5	21.64	89.552		
4,400.0	4,294.7	3,865.7	3,733.0	20.0	20.2	-178.99	-20.2	1,000.9	1,988.0	1,965.9	22.15	89.745		
4,500.0	4,391.9	3,952.4	3,816.1	20.5	20.7	-178.96	-21.6	1,025.3	2,037.9	2,015.3	22.66	89.932		
4,600.0	4,489.1	4,039.1	3,899.2	21.0	21.2	-178.93	-22.9	1,049.8	2,087.8	2,064.7	23.17	90.113		
4,700.0	4,586.4	4,125.7	3,982.3	21.5	21.7	-178.91	-24.3	1,074.3	2,137.7	2,114.0	23.68	90.290		
4,800.0	4,683.6	4,212.4	4,065.4	22.0	22.2	-178.88	-25.6	1,098.8	2,187.6	2,163.4	24.18	90.462		
4,900.0	4,780.8	4,299.0	4,148.6	22.5	22.8	-178.86	-27.0	1,123.2	2,237.5	2,212.8	24.69	90.630		

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

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 12C-12 F12
Project:	Garfield County, CO	TVD Reference:	30' KB @ 8279.0usft (H&P 330)
Reference Site:	S12-T7S-R97W	MD Reference:	30' KB @ 8279.0usft (H&P 330)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 12C-12 F12	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S12-T7S-R97W - PUCKETT 32C-12 F12 - OH - PLAN #1													Offset Site Error: 0.0 usft	
Survey Program: 0-ISCSWA MWD													Offset Well Error: 0.0 usft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor		
5,000.0	4,878.0	4,385.7	4,231.7	23.0	23.3	-178.84	-28.4	1,147.7	2,287.4	2,262.2	25.19	90.795		
5,100.0	4,975.3	4,472.4	4,314.8	23.5	23.8	-178.82	-29.7	1,172.2	2,337.3	2,311.6	25.70	90.955		
5,200.0	5,072.5	4,559.0	4,397.9	24.0	24.3	-178.80	-31.1	1,196.7	2,387.2	2,361.0	26.20	91.113		
5,300.0	5,169.7	4,645.7	4,481.0	24.5	24.8	-178.78	-32.5	1,221.1	2,437.1	2,410.4	26.70	91.267		
5,400.0	5,267.0	4,732.3	4,564.2	25.0	25.3	-178.76	-33.8	1,245.6	2,487.0	2,459.8	27.20	91.418		
5,500.0	5,364.2	4,819.0	4,647.3	25.5	25.8	-178.74	-35.2	1,270.1	2,536.9	2,509.2	27.71	91.567		
5,600.0	5,461.4	4,905.6	4,730.4	26.0	26.4	-178.73	-36.6	1,294.6	2,586.8	2,558.6	28.21	91.713		
5,700.0	5,558.6	4,992.3	4,813.5	26.5	26.9	-178.71	-37.9	1,319.0	2,636.7	2,608.0	28.70	91.857		
5,800.0	5,655.9	5,079.0	4,896.6	27.0	27.4	-178.69	-39.3	1,343.5	2,686.6	2,657.4	29.20	91.998		
5,900.0	5,753.1	5,165.6	4,979.7	27.5	27.9	-178.68	-40.6	1,368.0	2,736.5	2,706.8	29.70	92.138		
6,000.0	5,850.3	5,252.3	5,062.9	28.1	28.4	-178.66	-42.0	1,392.5	2,786.4	2,756.2	30.20	92.276		
6,100.0	5,947.6	5,338.9	5,146.0	28.6	28.9	-178.65	-43.4	1,416.9	2,836.3	2,805.6	30.69	92.411		
6,192.5	6,037.5	5,419.1	5,222.8	29.0	29.4	-178.64	-44.6	1,439.6	2,882.5	2,851.3	31.15	92.535		
6,200.0	6,044.8	5,425.6	5,229.1	29.1	29.4	-178.64	-44.7	1,441.4	2,886.2	2,855.0	31.21	92.463		
6,300.0	6,142.7	5,513.7	5,313.6	29.4	30.0	-178.66	-46.1	1,466.3	2,933.5	2,901.5	32.00	91.657		
6,400.0	6,241.5	5,604.2	5,400.4	29.7	30.5	-178.68	-47.5	1,491.8	2,976.1	2,943.3	32.71	90.992		
6,500.0	6,341.0	5,696.7	5,489.2	29.9	31.0	-178.69	-49.0	1,518.0	3,013.8	2,980.5	33.32	90.461		
6,600.0	6,440.8	5,791.1	5,579.7	30.0	31.6	-178.69	-50.5	1,544.7	3,046.8	3,012.9	33.83	90.059		
6,643.2	6,484.0	5,832.4	5,619.3	30.1	31.9	90.72	-51.1	1,556.3	3,059.4	3,025.4	34.03	89.914		
6,700.0	6,540.8	5,886.9	5,671.6	30.1	32.2	90.73	-52.0	1,571.7	3,075.5	3,041.2	34.27	89.743		
6,800.0	6,640.8	5,982.8	5,763.6	30.2	32.7	90.76	-53.5	1,598.8	3,103.7	3,069.0	34.70	89.444		
6,900.0	6,740.8	6,078.0	6,740.8	30.3	35.9	90.87	-61.9	1,748.9	3,127.4	3,090.5	36.88	84.790		
7,000.0	6,840.8	7,078.0	6,840.8	30.4	36.0	90.87	-61.9	1,748.9	3,127.4	3,090.2	37.20	84.066		
7,100.0	6,940.8	7,178.0	6,940.8	30.5	36.1	90.87	-61.9	1,748.9	3,127.4	3,089.9	37.52	83.348		
7,200.0	7,040.8	7,278.0	7,040.8	30.6	36.2	90.87	-61.9	1,748.9	3,127.4	3,089.5	37.85	82.636		
7,300.0	7,140.8	7,378.0	7,140.8	30.7	36.3	90.87	-61.9	1,748.9	3,127.4	3,089.2	38.17	81.931		
7,400.0	7,240.8	7,478.0	7,240.8	30.8	36.3	90.87	-61.9	1,748.9	3,127.4	3,088.9	38.50	81.232		
7,500.0	7,340.8	7,578.0	7,340.8	31.0	36.4	90.87	-61.9	1,748.9	3,127.4	3,088.5	38.83	80.540		
7,600.0	7,440.8	7,678.0	7,440.8	31.1	36.5	90.87	-61.9	1,748.9	3,127.4	3,088.2	39.16	79.855		
7,700.0	7,540.8	7,778.0	7,540.8	31.2	36.6	90.87	-61.9	1,748.9	3,127.4	3,087.9	39.50	79.177		
7,800.0	7,640.8	7,878.0	7,640.8	31.3	36.7	90.87	-61.9	1,748.9	3,127.4	3,087.5	39.84	78.506		
7,900.0	7,740.8	7,978.0	7,740.8	31.4	36.8	90.87	-61.9	1,748.9	3,127.4	3,087.2	40.18	77.842		
8,000.0	7,840.8	8,078.0	7,840.8	31.5	36.9	90.87	-61.9	1,748.9	3,127.4	3,086.9	40.52	77.184		
8,100.0	7,940.8	8,178.0	7,940.8	31.6	37.0	90.87	-61.9	1,748.9	3,127.4	3,086.5	40.86	76.534		
8,200.0	8,040.8	8,278.0	8,040.8	31.8	37.1	90.87	-61.9	1,748.9	3,127.4	3,086.2	41.21	75.891		
8,300.0	8,140.8	8,378.0	8,140.8	31.9	37.2	90.87	-61.9	1,748.9	3,127.4	3,085.8	41.56	75.255		
8,400.0	8,240.8	8,478.0	8,240.8	32.0	37.3	90.87	-61.9	1,748.9	3,127.4	3,085.5	41.91	74.626		
8,500.0	8,340.8	8,578.0	8,340.8	32.1	37.4	90.87	-61.9	1,748.9	3,127.4	3,085.1	42.26	74.004		
8,600.0	8,440.8	8,678.0	8,440.8	32.3	37.6	90.87	-61.9	1,748.9	3,127.4	3,084.8	42.61	73.389		
8,680.2	8,521.0	8,758.2	8,521.0	32.3	37.6	90.87	-61.9	1,748.9	3,127.4	3,084.5	42.90	72.902		

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 12C-12 F12
Project:	Garfield County, CO	TVD Reference:	30' KB @ 8279.0usft (H&P 330)
Reference Site:	S12-T7S-R97W	MD Reference:	30' KB @ 8279.0usft (H&P 330)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 12C-12 F12	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S12-T7S-R97W - PUCKETT 32D-12 F12 - OH - Plan #2													Offset Site Error:	0.0 usft
Survey Program: 0-ISCSWA MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
0.0	0.0	0.0	0.0	0.0	0.0	63.08	22.2	43.8	49.1					
100.0	100.0	100.0	100.0	0.1	0.1	63.08	22.2	43.8	49.1	48.9	0.16	311.948		
200.0	200.0	200.0	200.0	0.3	0.3	63.08	22.2	43.8	49.1	48.5	0.61	80.875		
300.0	300.0	300.0	300.0	0.5	0.5	63.08	22.2	43.8	49.1	48.0	1.06	46.460 CC, ES		
400.0	400.0	397.8	397.7	0.7	0.7	156.52	21.7	46.2	53.5	52.0	1.54	34.665		
500.0	499.6	494.0	493.7	1.0	1.0	162.69	20.2	53.4	67.3	65.2	2.12	31.669 SF		
600.0	598.8	587.3	586.2	1.3	1.2	168.66	17.8	64.9	91.1	88.3	2.76	33.004		
700.0	697.1	676.3	673.9	1.6	1.5	173.09	14.7	79.9	124.8	121.4	3.41	36.621		
750.7	746.5	719.6	716.2	1.8	1.7	174.78	12.9	88.7	145.5	141.7	3.73	38.968		
800.0	794.5	760.4	756.0	2.0	1.8	176.18	11.0	97.8	167.2	163.2	3.95	42.292		
900.0	891.7	840.7	833.5	2.5	2.2	178.31	6.7	118.2	214.2	209.8	4.41	48.524		
1,000.0	988.9	924.3	913.5	3.0	2.7	179.92	1.8	141.9	264.2	259.3	4.89	54.014		
1,100.0	1,086.1	1,010.6	996.1	3.4	3.2	-178.93	-3.4	166.6	314.4	309.0	5.36	58.697		
1,200.0	1,183.4	1,096.9	1,078.6	3.9	3.7	-178.10	-8.5	191.2	364.7	358.8	5.84	62.485		
1,300.0	1,280.6	1,183.3	1,161.2	4.4	4.2	-177.47	-13.6	215.9	415.0	408.7	6.33	65.552		
1,400.0	1,377.8	1,269.6	1,243.8	4.9	4.7	-176.97	-18.8	240.6	465.4	458.5	6.83	68.147		
1,500.0	1,475.1	1,355.9	1,326.4	5.4	5.2	-176.57	-23.9	265.2	515.7	508.4	7.33	70.315		
1,600.0	1,572.3	1,442.3	1,408.9	5.9	5.7	-176.25	-29.0	289.9	566.1	558.3	7.85	72.149		
1,700.0	1,669.5	1,528.6	1,491.5	6.4	6.3	-175.97	-34.2	314.6	616.5	608.2	8.36	73.719		
1,800.0	1,766.7	1,614.9	1,574.1	6.9	6.8	-175.74	-39.3	339.2	667.0	658.1	8.88	75.076		
1,900.0	1,864.0	1,701.3	1,656.6	7.4	7.3	-175.54	-44.4	363.9	717.4	708.0	9.41	76.259		
2,000.0	1,961.2	1,787.6	1,739.2	7.9	7.8	-175.37	-49.6	388.6	767.8	757.9	9.93	77.299		
2,100.0	2,058.4	1,873.9	1,821.8	8.4	8.3	-175.21	-54.7	413.2	818.2	807.8	10.46	78.220		
2,200.0	2,155.7	1,960.2	1,904.4	8.9	8.9	-175.08	-59.9	437.9	868.7	857.7	10.99	79.044		
2,300.0	2,252.9	2,046.6	1,986.9	9.4	9.4	-174.96	-65.0	462.6	919.1	907.6	11.52	79.784		
2,400.0	2,350.1	2,132.9	2,069.5	9.9	9.9	-174.85	-70.1	487.2	969.6	957.5	12.05	80.454		
2,500.0	2,447.3	2,219.2	2,152.1	10.4	10.5	-174.75	-75.3	511.9	1,020.0	1,007.4	12.58	81.063		
2,600.0	2,544.6	2,305.6	2,234.7	10.9	11.0	-174.67	-80.4	536.5	1,070.5	1,057.3	13.12	81.620		
2,700.0	2,641.8	2,391.9	2,317.2	11.4	11.5	-174.59	-85.5	561.2	1,120.9	1,107.3	13.65	82.132		
2,800.0	2,739.0	2,478.2	2,399.8	11.9	12.0	-174.51	-90.7	585.9	1,171.4	1,157.2	14.18	82.605		
2,900.0	2,836.3	2,564.6	2,482.4	12.4	12.6	-174.45	-95.8	610.5	1,221.8	1,207.1	14.71	83.044		
3,000.0	2,933.5	2,650.9	2,565.0	12.9	13.1	-174.39	-100.9	635.2	1,272.3	1,257.0	15.25	83.453		
3,100.0	3,030.7	2,737.2	2,647.5	13.4	13.6	-174.33	-106.1	659.9	1,322.7	1,307.0	15.78	83.834		
3,200.0	3,127.9	2,823.6	2,730.1	13.9	14.1	-174.28	-111.2	684.5	1,373.2	1,356.9	16.31	84.193		
3,300.0	3,225.2	2,909.9	2,812.7	14.4	14.7	-174.23	-116.3	709.2	1,423.6	1,406.8	16.84	84.530		
3,400.0	3,322.4	2,996.2	2,895.2	15.0	15.2	-174.18	-121.5	733.9	1,474.1	1,456.7	17.37	84.848		
3,500.0	3,419.6	3,082.5	2,977.8	15.5	15.7	-174.14	-126.6	758.5	1,524.6	1,506.7	17.90	85.150		
3,600.0	3,516.9	3,168.9	3,060.4	16.0	16.3	-174.10	-131.8	783.2	1,575.0	1,556.6	18.43	85.436		
3,700.0	3,614.1	3,255.2	3,143.0	16.5	16.8	-174.06	-136.9	807.9	1,625.5	1,606.5	18.96	85.709		
3,800.0	3,711.3	3,341.5	3,225.5	17.0	17.3	-174.03	-142.0	832.5	1,675.9	1,656.4	19.49	85.970		
3,900.0	3,808.5	3,427.9	3,308.1	17.5	17.8	-173.99	-147.2	857.2	1,726.4	1,706.4	20.02	86.219		
4,000.0	3,905.8	3,514.2	3,390.7	18.0	18.4	-173.96	-152.3	881.8	1,776.9	1,756.3	20.55	86.458		
4,100.0	4,003.0	3,600.5	3,473.3	18.5	18.9	-173.93	-157.4	906.5	1,827.3	1,806.2	21.08	86.687		
4,200.0	4,100.2	3,686.9	3,555.8	19.0	19.4	-173.91	-162.6	931.2	1,877.8	1,856.2	21.61	86.908		
4,300.0	4,197.4	3,773.2	3,638.4	19.5	20.0	-173.88	-167.7	955.8	1,928.2	1,906.1	22.13	87.122		
4,400.0	4,294.7	3,859.5	3,721.0	20.0	20.5	-173.85	-172.8	980.5	1,978.7	1,956.0	22.66	87.328		
4,500.0	4,391.9	3,945.9	3,803.5	20.5	21.0	-173.83	-178.0	1,005.2	2,029.2	2,006.0	23.18	87.528		
4,600.0	4,489.1	4,032.2	3,886.1	21.0	21.5	-173.81	-183.1	1,029.8	2,079.6	2,055.9	23.71	87.721		
4,700.0	4,586.4	4,118.5	3,968.7	21.5	22.1	-173.79	-188.2	1,054.5	2,130.1	2,105.9	24.23	87.909		
4,800.0	4,683.6	4,204.8	4,051.3	22.0	22.6	-173.76	-193.4	1,079.2	2,180.6	2,155.8	24.75	88.091		
4,900.0	4,780.8	4,291.2	4,133.8	22.5	23.1	-173.75	-198.5	1,103.8	2,231.0	2,205.7	25.28	88.269		
5,000.0	4,878.0	4,377.5	4,216.4	23.0	23.7	-173.73	-203.7	1,128.5	2,281.5	2,255.7	25.80	88.443		

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

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 12C-12 F12
Project:	Garfield County, CO	TVD Reference:	30' KB @ 8279.0usft (H&P 330)
Reference Site:	S12-T7S-R97W	MD Reference:	30' KB @ 8279.0usft (H&P 330)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 12C-12 F12	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S12-T7S-R97W - PUCKETT 32D-12 F12 - OH - Plan #2													Offset Site Error: 0.0 usft	
Survey Program: 0-ISCSWA MWD													Offset Well Error: 0.0 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor		
5,100.0	4,975.3	4,463.8	4,299.0	23.5	24.2	-173.71	-208.8	1,153.2	2,331.9	2,305.6	26.32	88.612		
5,200.0	5,072.5	4,550.2	4,381.6	24.0	24.7	-173.69	-213.9	1,177.8	2,382.4	2,355.6	26.84	88.778		
5,300.0	5,169.7	4,636.5	4,464.1	24.5	25.2	-173.67	-219.1	1,202.5	2,432.9	2,405.5	27.35	88.940		
5,400.0	5,267.0	4,722.8	4,546.7	25.0	25.8	-173.66	-224.2	1,227.1	2,483.3	2,455.5	27.87	89.098		
5,500.0	5,364.2	4,809.2	4,629.3	25.5	26.3	-173.64	-229.3	1,251.8	2,533.8	2,505.4	28.39	89.253		
5,600.0	5,461.4	4,895.5	4,711.9	26.0	26.8	-173.63	-234.5	1,276.5	2,584.3	2,555.4	28.91	89.405		
5,700.0	5,558.6	4,981.8	4,794.4	26.5	27.4	-173.62	-239.6	1,301.1	2,634.7	2,605.3	29.42	89.555		
5,800.0	5,655.9	5,068.2	4,877.0	27.0	27.9	-173.60	-244.7	1,325.8	2,685.2	2,655.3	29.93	89.702		
5,900.0	5,753.1	5,154.5	4,959.6	27.5	28.4	-173.59	-249.9	1,350.5	2,735.7	2,705.2	30.45	89.847		
6,000.0	5,850.3	5,240.8	5,042.1	28.1	28.9	-173.58	-255.0	1,375.1	2,786.1	2,755.2	30.96	89.989		
6,100.0	5,947.6	5,327.2	5,124.7	28.6	29.5	-173.56	-260.1	1,399.8	2,836.6	2,805.1	31.47	90.129		
6,192.5	6,037.5	5,407.0	5,201.1	29.0	30.0	-173.55	-264.9	1,422.6	2,883.3	2,851.3	31.94	90.257		
6,200.0	6,044.8	5,413.5	5,207.3	29.1	30.0	-173.57	-265.3	1,424.5	2,887.0	2,855.0	32.01	90.187		
6,300.0	6,142.7	5,501.3	5,291.3	29.4	30.5	-173.73	-270.5	1,449.5	2,934.9	2,902.1	32.83	89.400		
6,400.0	6,241.5	5,591.4	5,377.5	29.7	31.1	-173.85	-275.9	1,475.3	2,978.1	2,944.6	33.56	88.753		
6,500.0	6,341.0	5,683.7	5,465.8	29.9	31.7	-173.95	-281.4	1,501.7	3,016.6	2,982.4	34.19	88.240		
6,600.0	6,440.8	5,777.8	5,555.8	30.0	32.2	-174.01	-287.0	1,528.6	3,050.2	3,015.5	34.72	87.855		
6,643.2	6,484.0	5,819.0	5,595.2	30.1	32.5	95.39	-289.4	1,540.3	3,063.2	3,028.3	34.92	87.717		
6,700.0	6,540.8	5,873.3	5,647.1	30.1	32.8	95.42	-292.6	1,555.8	3,079.7	3,044.5	35.17	87.567		
6,800.0	6,640.8	5,969.0	5,738.6	30.2	33.4	95.48	-298.3	1,583.2	3,108.7	3,073.1	35.61	87.306		
6,900.0	6,740.8	6,060.9	5,830.8	30.3	36.7	95.80	-331.0	1,740.1	3,134.3	3,096.5	37.87	82.757		
7,000.0	6,840.8	7,090.9	6,840.8	30.4	36.8	95.80	-331.0	1,740.1	3,134.3	3,096.1	38.18	82.087		
7,100.0	6,940.8	7,190.9	6,940.8	30.5	36.9	95.80	-331.0	1,740.1	3,134.3	3,095.8	38.49	81.422		
7,200.0	7,040.8	7,290.9	7,040.8	30.6	37.0	95.80	-331.0	1,740.1	3,134.3	3,095.5	38.81	80.762		
7,300.0	7,140.8	7,390.9	7,140.8	30.7	37.1	95.80	-331.0	1,740.1	3,134.3	3,095.2	39.13	80.107		
7,400.0	7,240.8	7,490.9	7,240.8	30.8	37.2	95.80	-331.0	1,740.1	3,134.3	3,094.9	39.45	79.457		
7,500.0	7,340.8	7,590.9	7,340.8	31.0	37.3	95.80	-331.0	1,740.1	3,134.3	3,094.6	39.77	78.813		
7,600.0	7,440.8	7,690.9	7,440.8	31.1	37.3	95.80	-331.0	1,740.1	3,134.3	3,094.2	40.09	78.174		
7,700.0	7,540.8	7,790.9	7,540.8	31.2	37.4	95.80	-331.0	1,740.1	3,134.3	3,093.9	40.42	77.541		
7,800.0	7,640.8	7,890.9	7,640.8	31.3	37.5	95.80	-331.0	1,740.1	3,134.3	3,093.6	40.75	76.914		
7,900.0	7,740.8	7,990.9	7,740.8	31.4	37.6	95.80	-331.0	1,740.1	3,134.3	3,093.2	41.08	76.292		
8,000.0	7,840.8	8,090.9	7,840.8	31.5	37.7	95.80	-331.0	1,740.1	3,134.3	3,092.9	41.42	75.676		
8,100.0	7,940.8	8,190.9	7,940.8	31.6	37.8	95.80	-331.0	1,740.1	3,134.3	3,092.6	41.75	75.066		
8,200.0	8,040.8	8,290.9	8,040.8	31.8	37.9	95.80	-331.0	1,740.1	3,134.3	3,092.2	42.09	74.462		
8,300.0	8,140.8	8,390.9	8,140.8	31.9	38.0	95.80	-331.0	1,740.1	3,134.3	3,091.9	42.43	73.864		
8,400.0	8,240.8	8,490.9	8,240.8	32.0	38.1	95.80	-331.0	1,740.1	3,134.3	3,091.6	42.78	73.272		
8,500.0	8,340.8	8,590.9	8,340.8	32.1	38.2	95.80	-331.0	1,740.1	3,134.3	3,091.2	43.12	72.686		
8,600.0	8,440.8	8,690.9	8,440.8	32.3	38.3	95.80	-331.0	1,740.1	3,134.3	3,090.9	43.47	72.106		
8,680.2	8,521.0	8,771.1	8,521.0	32.3	38.4	95.80	-331.0	1,740.1	3,134.3	3,090.6	43.75	71.645		

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 12C-12 F12
Project:	Garfield County, CO	TVD Reference:	30' KB @ 8279.0usft (H&P 330)
Reference Site:	S12-T7S-R97W	MD Reference:	30' KB @ 8279.0usft (H&P 330)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 12C-12 F12	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S12-T7S-R97W - PUCKETT 33A-12 F12 - OH - Plan #2													Offset Site Error:	0.0 usft
Survey Program: 0-ISCSWA MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
0.0	0.0	0.0	0.0	0.0	0.0	65.49	17.1	37.6	41.3					
100.0	100.0	100.0	100.0	0.1	0.1	65.49	17.1	37.6	41.3	0.16	262.305			
200.0	200.0	200.0	200.0	0.3	0.3	65.49	17.1	37.6	41.3	0.61	68.005			
233.7	233.7	233.7	233.7	0.4	0.4	65.49	17.1	37.6	41.3	0.76	54.419 CC, ES			
300.0	300.0	299.3	299.2	0.5	0.5	66.12	16.9	38.1	41.7	1.05	39.835			
400.0	400.0	397.3	397.1	0.7	0.7	162.19	15.0	42.8	48.0	1.55	30.964			
500.0	499.6	493.4	492.7	1.0	1.0	169.98	11.4	51.9	63.8	2.16	29.565 SF			
600.0	598.8	586.3	584.6	1.3	1.3	176.28	6.2	65.0	89.9	2.81	31.972			
700.0	697.1	674.7	671.3	1.6	1.6	-179.45	-0.3	81.3	125.7	3.47	36.240			
750.7	746.5	717.6	712.9	1.8	1.8	-177.88	-3.9	90.5	147.3	3.80	38.797			
800.0	794.5	758.1	752.1	2.0	2.0	-176.66	-7.7	100.0	170.0	4.02	42.224			
900.0	891.7	838.4	829.2	2.5	2.4	-174.74	-16.1	121.1	218.6	4.52	48.418			
1,000.0	988.9	924.7	911.5	3.0	2.9	-173.30	-25.6	145.1	268.8	5.00	53.800			
1,100.0	1,086.1	1,011.1	993.9	3.4	3.4	-172.31	-35.2	169.0	319.1	5.49	58.129			
1,200.0	1,183.4	1,097.4	1,076.3	3.9	4.0	-171.59	-44.7	193.0	369.5	6.00	61.570			
1,300.0	1,280.6	1,183.7	1,158.7	4.4	4.5	-171.04	-54.2	217.0	419.8	6.53	64.313			
1,400.0	1,377.8	1,270.0	1,241.1	4.9	5.0	-170.61	-63.8	240.9	470.2	7.05	66.661			
1,500.0	1,475.1	1,356.3	1,323.4	5.4	5.5	-170.27	-73.3	264.9	520.6	7.59	68.586			
1,600.0	1,572.3	1,442.7	1,405.8	5.9	6.1	-169.98	-82.8	288.8	571.1	8.13	70.209			
1,700.0	1,669.5	1,529.0	1,488.2	6.4	6.6	-169.74	-92.4	312.8	621.5	8.68	71.592			
1,800.0	1,766.7	1,615.3	1,570.6	6.9	7.2	-169.54	-101.9	336.8	672.0	9.23	72.783			
1,900.0	1,864.0	1,701.6	1,653.0	7.4	7.7	-169.36	-111.4	360.7	722.4	9.79	73.820			
2,000.0	1,961.2	1,788.0	1,735.3	7.9	8.2	-169.21	-121.0	384.7	772.9	10.34	74.728			
2,100.0	2,058.4	1,874.3	1,817.7	8.4	8.8	-169.08	-130.5	408.7	823.3	10.90	75.532			
2,200.0	2,155.7	1,960.6	1,900.1	8.9	9.3	-168.96	-140.0	432.6	873.8	11.46	76.250			
2,300.0	2,252.9	2,046.9	1,982.5	9.4	9.8	-168.86	-149.5	456.6	924.2	12.02	76.894			
2,400.0	2,350.1	2,133.3	2,064.9	9.9	10.4	-168.76	-159.1	480.6	974.7	12.58	77.476			
2,500.0	2,447.3	2,219.6	2,147.2	10.4	10.9	-168.68	-168.6	504.5	1,025.2	13.14	78.005			
2,600.0	2,544.6	2,305.9	2,229.6	10.9	11.5	-168.60	-178.1	528.5	1,075.6	13.70	78.489			
2,700.0	2,641.8	2,392.2	2,312.0	11.4	12.0	-168.53	-187.7	552.5	1,126.1	14.27	78.934			
2,800.0	2,739.0	2,478.5	2,394.4	11.9	12.5	-168.46	-197.2	576.4	1,176.6	14.83	79.344			
2,900.0	2,836.3	2,564.9	2,476.8	12.4	13.1	-168.41	-206.7	600.4	1,227.0	15.39	79.725			
3,000.0	2,933.5	2,651.2	2,559.1	12.9	13.6	-168.35	-216.3	624.4	1,277.5	15.95	80.080			
3,100.0	3,030.7	2,737.5	2,641.5	13.4	14.2	-168.30	-225.8	648.3	1,328.0	16.51	80.412			
3,200.0	3,127.9	2,823.8	2,723.9	13.9	14.7	-168.26	-235.3	672.3	1,378.4	17.08	80.723			
3,300.0	3,225.2	2,910.2	2,806.3	14.4	15.3	-168.21	-244.9	696.3	1,428.9	17.64	81.016			
3,400.0	3,322.4	2,996.5	2,888.7	15.0	15.8	-168.17	-254.4	720.2	1,479.4	18.20	81.292			
3,500.0	3,419.6	3,082.8	2,971.0	15.5	16.3	-168.13	-263.9	744.2	1,529.9	18.76	81.555			
3,600.0	3,516.9	3,169.1	3,053.4	16.0	16.9	-168.10	-273.5	768.1	1,580.3	19.32	81.804			
3,700.0	3,614.1	3,255.5	3,135.8	16.5	17.4	-168.07	-283.0	792.1	1,630.8	19.88	82.042			
3,800.0	3,711.3	3,341.8	3,218.2	17.0	18.0	-168.04	-292.5	816.1	1,681.3	20.44	82.268			
3,900.0	3,808.5	3,428.1	3,300.6	17.5	18.5	-168.01	-302.0	840.0	1,731.8	20.99	82.486			
4,000.0	3,905.8	3,514.4	3,382.9	18.0	19.0	-167.98	-311.6	864.0	1,782.2	21.55	82.694			
4,100.0	4,003.0	3,600.7	3,465.3	18.5	19.6	-167.95	-321.1	888.0	1,832.7	22.11	82.894			
4,200.0	4,100.2	3,687.1	3,547.7	19.0	20.1	-167.93	-330.6	911.9	1,883.2	22.67	83.087			
4,300.0	4,197.4	3,773.4	3,630.1	19.5	20.7	-167.90	-340.2	935.9	1,933.7	23.22	83.274			
4,400.0	4,294.7	3,859.7	3,712.5	20.0	21.2	-167.88	-349.7	959.9	1,984.1	23.78	83.454			
4,500.0	4,391.9	3,946.0	3,794.8	20.5	21.8	-167.86	-359.2	983.8	2,034.6	24.33	83.628			
4,600.0	4,489.1	4,032.4	3,877.2	21.0	22.3	-167.84	-368.8	1,007.8	2,085.1	24.88	83.798			
4,700.0	4,586.4	4,118.7	3,959.6	21.5	22.8	-167.82	-378.3	1,031.8	2,135.6	25.44	83.962			
4,800.0	4,683.6	4,205.0	4,042.0	22.0	23.4	-167.80	-387.8	1,055.7	2,186.0	25.99	84.122			
4,900.0	4,780.8	4,291.3	4,124.4	22.5	23.9	-167.79	-397.4	1,079.7	2,236.5	26.54	84.278			

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

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 12C-12 F12
Project:	Garfield County, CO	TVD Reference:	30' KB @ 8279.0usft (H&P 330)
Reference Site:	S12-T7S-R97W	MD Reference:	30' KB @ 8279.0usft (H&P 330)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 12C-12 F12	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S12-T7S-R97W - PUCKETT 33A-12 F12 - OH - Plan #2													Offset Site Error:	0.0 usft
Survey Program: 0-ISCSWA MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,000.0	4,878.0	4,377.7	4,206.7	23.0	24.5	-167.77	-406.9	1,103.7	2,287.0	2,259.9	27.09	84.430		
5,100.0	4,975.3	4,464.0	4,289.1	23.5	25.0	-167.75	-416.4	1,127.6	2,337.5	2,309.8	27.64	84.578		
5,200.0	5,072.5	4,550.3	4,371.5	24.0	25.6	-167.74	-426.0	1,151.6	2,388.0	2,359.8	28.19	84.724		
5,300.0	5,169.7	4,636.6	4,453.9	24.5	26.1	-167.72	-435.5	1,175.6	2,438.4	2,409.7	28.73	84.866		
5,400.0	5,267.0	4,722.9	4,536.3	25.0	26.6	-167.71	-445.0	1,199.5	2,488.9	2,459.6	29.28	85.005		
5,500.0	5,364.2	4,809.3	4,618.6	25.5	27.2	-167.70	-454.5	1,223.5	2,539.4	2,509.6	29.83	85.141		
5,600.0	5,461.4	4,895.6	4,701.0	26.0	27.7	-167.68	-464.1	1,247.5	2,589.9	2,559.5	30.37	85.275		
5,700.0	5,558.6	4,981.9	4,783.4	26.5	28.3	-167.67	-473.6	1,271.4	2,640.4	2,609.4	30.91	85.407		
5,800.0	5,655.9	5,068.2	4,865.8	27.0	28.8	-167.66	-483.1	1,295.4	2,690.8	2,659.4	31.46	85.537		
5,900.0	5,753.1	5,154.6	4,948.2	27.5	29.4	-167.65	-492.7	1,319.3	2,741.3	2,709.3	32.00	85.664		
6,000.0	5,850.3	5,240.9	5,030.5	28.1	29.9	-167.64	-502.2	1,343.3	2,791.8	2,759.2	32.54	85.789		
6,100.0	5,947.6	5,327.2	5,112.9	28.6	30.4	-167.63	-511.7	1,367.3	2,842.3	2,809.2	33.08	85.913		
6,192.5	6,037.5	5,407.0	5,189.1	29.0	30.9	-167.62	-520.5	1,389.4	2,888.9	2,855.4	33.58	86.026		
6,200.0	6,044.8	5,413.5	5,195.3	29.1	31.0	-167.64	-521.3	1,391.2	2,892.7	2,859.1	33.65	85.957		
6,300.0	6,142.7	5,501.3	5,279.1	29.4	31.5	-167.97	-531.0	1,415.6	2,940.6	2,906.1	34.52	85.199		
6,400.0	6,241.5	5,591.4	5,365.0	29.7	32.1	-168.22	-540.9	1,440.6	2,984.0	2,948.7	35.28	84.576		
6,500.0	6,341.0	5,683.5	5,453.0	29.9	32.7	-168.40	-551.1	1,466.2	3,022.7	2,986.7	35.95	84.084		
6,600.0	6,440.8	5,777.5	5,542.6	30.0	33.3	-168.53	-561.4	1,492.3	3,056.6	3,020.1	36.51	83.719		
6,643.2	6,484.0	5,818.5	5,581.8	30.1	33.5	100.84	-566.0	1,503.7	3,069.7	3,033.0	36.72	83.591		
6,700.0	6,540.8	5,872.8	5,633.6	30.1	33.9	100.90	-572.0	1,518.7	3,086.4	3,049.5	36.98	83.469		
6,800.0	6,640.8	5,968.2	5,724.6	30.2	34.5	101.00	-582.5	1,545.2	3,115.8	3,078.4	37.42	83.258		
6,900.0	6,740.8	7,005.1	6,740.8	30.3	37.9	101.56	-643.5	1,698.6	3,140.5	3,100.8	39.73	79.041		
7,000.0	6,840.8	7,105.1	6,840.8	30.4	37.9	101.56	-643.5	1,698.6	3,140.5	3,100.5	40.03	78.460		
7,100.0	6,940.8	7,205.1	6,940.8	30.5	38.0	101.56	-643.5	1,698.6	3,140.5	3,100.2	40.32	77.883		
7,200.0	7,040.8	7,305.1	7,040.8	30.6	38.1	101.56	-643.5	1,698.6	3,140.5	3,099.9	40.62	77.308		
7,300.0	7,140.8	7,405.1	7,140.8	30.7	38.2	101.56	-643.5	1,698.6	3,140.5	3,099.6	40.93	76.737		
7,400.0	7,240.8	7,505.1	7,240.8	30.8	38.3	101.56	-643.5	1,698.6	3,140.5	3,099.3	41.23	76.168		
7,500.0	7,340.8	7,605.1	7,340.8	31.0	38.4	101.56	-643.5	1,698.6	3,140.5	3,099.0	41.54	75.604		
7,600.0	7,440.8	7,705.1	7,440.8	31.1	38.5	101.56	-643.5	1,698.6	3,140.5	3,098.7	41.85	75.043		
7,700.0	7,540.8	7,805.1	7,540.8	31.2	38.5	101.56	-643.5	1,698.6	3,140.5	3,098.3	42.16	74.485		
7,800.0	7,640.8	7,905.1	7,640.8	31.3	38.6	101.56	-643.5	1,698.6	3,140.5	3,098.0	42.48	73.932		
7,900.0	7,740.8	8,005.1	7,740.8	31.4	38.7	101.56	-643.5	1,698.6	3,140.5	3,097.7	42.80	73.382		
8,000.0	7,840.8	8,105.1	7,840.8	31.5	38.8	101.56	-643.5	1,698.6	3,140.5	3,097.4	43.12	72.837		
8,100.0	7,940.8	8,205.1	7,940.8	31.6	38.9	101.56	-643.5	1,698.6	3,140.5	3,097.1	43.44	72.295		
8,200.0	8,040.8	8,305.1	8,040.8	31.8	39.0	101.56	-643.5	1,698.6	3,140.5	3,096.7	43.77	71.758		
8,300.0	8,140.8	8,405.1	8,140.8	31.9	39.1	101.56	-643.5	1,698.6	3,140.5	3,096.4	44.09	71.225		
8,400.0	8,240.8	8,505.1	8,240.8	32.0	39.2	101.56	-643.5	1,698.6	3,140.5	3,096.1	44.42	70.697		
8,500.0	8,340.8	8,605.1	8,340.8	32.1	39.3	101.56	-643.5	1,698.6	3,140.5	3,095.7	44.75	70.173		
8,600.0	8,440.8	8,705.1	8,440.8	32.3	39.4	101.56	-643.5	1,698.6	3,140.5	3,095.4	45.09	69.653		
8,680.2	8,521.0	8,785.3	8,521.0	32.3	39.5	101.56	-643.5	1,698.6	3,140.5	3,095.1	45.36	69.240		

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 12C-12 F12
Project:	Garfield County, CO	TVD Reference:	30' KB @ 8279.0usft (H&P 330)
Reference Site:	S12-T7S-R97W	MD Reference:	30' KB @ 8279.0usft (H&P 330)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 12C-12 F12	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S12-T7S-R97W - PUCKETT 33B-12 F12 - OH - Plan #2													Offset Site Error:	0.0 usft
Survey Program: 0-ISCSWA MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
0.0	0.0	0.0	0.0	0.0	0.0	74.44	6.9	24.8	25.8					
100.0	100.0	100.0	100.0	0.1	0.1	74.44	6.9	24.8	25.8	0.16	163.931			
200.0	200.0	200.0	200.0	0.3	0.3	74.44	6.9	24.8	25.8	0.61	42.501 CC, ES			
300.0	300.0	299.0	298.9	0.5	0.5	78.16	5.7	27.1	27.7	1.04	26.557			
400.0	400.0	397.1	396.8	0.7	0.7	177.38	2.0	33.7	36.6	1.58	23.099 SF			
500.0	499.6	493.1	491.9	1.0	1.0	-175.32	-3.9	44.5	55.6	2.21	25.194			
600.0	598.8	585.5	582.9	1.3	1.3	-171.00	-11.9	58.8	84.6	2.86	29.600			
700.0	697.1	673.3	668.5	1.6	1.7	-168.52	-21.3	75.9	122.9	3.52	34.940			
750.7	746.5	715.8	709.5	1.8	1.9	-167.66	-26.6	85.4	145.6	3.85	37.822			
800.0	794.5	755.9	748.1	2.0	2.2	-167.11	-32.0	95.1	169.1	4.09	41.381			
900.0	891.7	835.6	823.9	2.5	2.6	-166.14	-43.8	116.5	219.5	4.60	47.700			
1,000.0	988.9	921.1	904.9	3.0	3.2	-165.39	-57.1	140.6	271.3	5.11	53.086			
1,100.0	1,086.1	1,006.6	985.8	3.4	3.7	-164.87	-70.4	164.6	323.1	5.63	57.355			
1,200.0	1,183.4	1,092.1	1,066.8	3.9	4.3	-164.50	-83.8	188.7	374.9	6.18	60.687			
1,300.0	1,280.6	1,177.6	1,147.8	4.4	4.9	-164.22	-97.1	212.8	426.7	6.73	63.379			
1,400.0	1,377.8	1,263.1	1,228.8	4.9	5.4	-164.00	-110.4	236.8	478.5	7.29	65.609			
1,500.0	1,475.1	1,348.7	1,309.7	5.4	6.0	-163.82	-123.7	260.9	530.3	7.86	67.448			
1,600.0	1,572.3	1,434.2	1,390.7	5.9	6.6	-163.67	-137.0	285.0	582.1	8.44	68.992			
1,700.0	1,669.5	1,519.7	1,471.7	6.4	7.1	-163.55	-150.4	309.1	633.9	9.02	70.303			
1,800.0	1,766.7	1,605.2	1,552.6	6.9	7.7	-163.45	-163.7	333.1	685.8	9.60	71.429			
1,900.0	1,864.0	1,690.7	1,633.6	7.4	8.3	-163.36	-177.0	357.2	737.6	10.19	72.405			
2,000.0	1,961.2	1,776.2	1,714.6	7.9	8.9	-163.28	-190.3	381.3	789.4	10.78	73.259			
2,100.0	2,058.4	1,861.8	1,795.6	8.4	9.4	-163.21	-203.6	405.3	841.2	11.37	74.015			
2,200.0	2,155.7	1,947.3	1,876.5	8.9	10.0	-163.15	-217.0	429.4	893.1	11.96	74.688			
2,300.0	2,252.9	2,032.8	1,957.5	9.4	10.6	-163.10	-230.3	453.5	944.9	12.55	75.291			
2,400.0	2,350.1	2,118.3	2,038.5	9.9	11.2	-163.05	-243.6	477.5	996.7	13.14	75.836			
2,500.0	2,447.3	2,203.8	2,119.4	10.4	11.7	-163.01	-256.9	501.6	1,048.6	13.74	76.330			
2,600.0	2,544.6	2,289.3	2,200.4	10.9	12.3	-162.97	-270.2	525.7	1,100.4	14.33	76.782			
2,700.0	2,641.8	2,374.9	2,281.4	11.4	12.9	-162.93	-283.5	549.7	1,152.2	14.93	77.197			
2,800.0	2,739.0	2,460.4	2,362.4	11.9	13.5	-162.90	-296.9	573.8	1,204.1	15.52	77.580			
2,900.0	2,836.3	2,545.9	2,443.3	12.4	14.0	-162.87	-310.2	597.9	1,255.9	16.11	77.935			
3,000.0	2,933.5	2,631.4	2,524.3	12.9	14.6	-162.84	-323.5	622.0	1,307.7	16.71	78.265			
3,100.0	3,030.7	2,716.9	2,605.3	13.4	15.2	-162.82	-336.8	646.0	1,359.5	17.30	78.574			
3,200.0	3,127.9	2,802.5	2,686.3	13.9	15.8	-162.80	-350.1	670.1	1,411.4	17.90	78.864			
3,300.0	3,225.2	2,888.0	2,767.2	14.4	16.3	-162.77	-363.5	694.2	1,463.2	18.49	79.136			
3,400.0	3,322.4	2,973.5	2,848.2	15.0	16.9	-162.75	-376.8	718.2	1,515.0	19.08	79.394			
3,500.0	3,419.6	3,059.0	2,929.2	15.5	17.5	-162.73	-390.1	742.3	1,566.9	19.67	79.638			
3,600.0	3,516.9	3,144.5	3,010.1	16.0	18.1	-162.72	-403.4	766.4	1,618.7	20.27	79.870			
3,700.0	3,614.1	3,230.0	3,091.1	16.5	18.6	-162.70	-416.7	790.4	1,670.5	20.86	80.091			
3,800.0	3,711.3	3,315.6	3,172.1	17.0	19.2	-162.68	-430.1	814.5	1,722.4	21.45	80.301			
3,900.0	3,808.5	3,401.1	3,253.1	17.5	19.8	-162.67	-443.4	838.6	1,774.2	22.04	80.503			
4,000.0	3,905.8	3,486.6	3,334.0	18.0	20.4	-162.66	-456.7	862.6	1,826.0	22.63	80.696			
4,100.0	4,003.0	3,572.1	3,415.0	18.5	21.0	-162.64	-470.0	886.7	1,877.9	23.22	80.883			
4,200.0	4,100.2	3,657.6	3,496.0	19.0	21.5	-162.63	-483.3	910.8	1,929.7	23.81	81.062			
4,300.0	4,197.4	3,743.1	3,576.9	19.5	22.1	-162.62	-496.7	934.9	1,981.5	24.39	81.235			
4,400.0	4,294.7	3,828.7	3,657.9	20.0	22.7	-162.61	-510.0	958.9	2,033.4	24.98	81.402			
4,500.0	4,391.9	3,914.2	3,738.9	20.5	23.3	-162.60	-523.3	983.0	2,085.2	25.57	81.564			
4,600.0	4,489.1	3,999.7	3,819.9	21.0	23.8	-162.59	-536.6	1,007.1	2,137.0	26.15	81.721			
4,700.0	4,586.4	4,085.2	3,900.8	21.5	24.4	-162.58	-549.9	1,031.1	2,188.9	26.73	81.874			
4,800.0	4,683.6	4,170.7	3,981.8	22.0	25.0	-162.57	-563.3	1,055.2	2,240.7	27.32	82.022			
4,900.0	4,780.8	4,256.3	4,062.8	22.5	25.6	-162.56	-576.6	1,079.3	2,292.5	27.90	82.167			
5,000.0	4,878.0	4,341.8	4,143.8	23.0	26.1	-162.55	-589.9	1,103.3	2,344.4	28.48	82.308			

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

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 12C-12 F12
Project:	Garfield County, CO	TVD Reference:	30' KB @ 8279.0usft (H&P 330)
Reference Site:	S12-T7S-R97W	MD Reference:	30' KB @ 8279.0usft (H&P 330)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 12C-12 F12	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S12-T7S-R97W - PUCKETT 33B-12 F12 - OH - Plan #2													Offset Site Error: 0.0 usft	
Survey Program: 0-ISCSWA MWD													Offset Well Error: 0.0 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor		
5,100.0	4,975.3	4,427.3	4,224.7	23.5	26.7	-162.54	-603.2	1,127.4	2,396.2	2,367.1	29.06	82.445		
5,200.0	5,072.5	4,512.8	4,305.7	24.0	27.3	-162.53	-616.5	1,151.5	2,448.0	2,418.4	29.64	82.580		
5,300.0	5,169.7	4,598.3	4,386.7	24.5	27.9	-162.53	-629.9	1,175.6	2,499.9	2,469.6	30.22	82.711		
5,400.0	5,267.0	4,683.8	4,467.6	25.0	28.5	-162.52	-643.2	1,199.6	2,551.7	2,520.9	30.80	82.841		
5,500.0	5,364.2	4,769.4	4,548.6	25.5	29.0	-162.51	-656.5	1,223.7	2,603.5	2,572.1	31.38	82.967		
5,600.0	5,461.4	4,854.9	4,629.6	26.0	29.6	-162.51	-669.8	1,247.8	2,655.4	2,623.4	31.96	83.091		
5,700.0	5,558.6	4,940.4	4,710.6	26.5	30.2	-162.50	-683.1	1,271.8	2,707.2	2,674.7	32.53	83.213		
5,800.0	5,655.9	5,025.9	4,791.5	27.0	30.8	-162.49	-696.5	1,295.9	2,759.0	2,725.9	33.11	83.333		
5,900.0	5,753.1	5,111.4	4,872.5	27.5	31.3	-162.49	-709.8	1,320.0	2,810.9	2,777.2	33.68	83.451		
6,000.0	5,850.3	5,196.9	4,953.5	28.1	31.9	-162.48	-723.1	1,344.0	2,862.7	2,828.4	34.26	83.567		
6,100.0	5,947.6	5,282.5	5,034.4	28.6	32.5	-162.48	-736.4	1,368.1	2,914.5	2,879.7	34.83	83.682		
6,192.5	6,037.5	5,361.5	5,109.3	29.0	33.0	-162.47	-748.7	1,390.4	2,962.5	2,927.1	35.36	83.786		
6,200.0	6,044.8	5,368.0	5,115.4	29.1	33.1	-162.51	-749.7	1,392.2	2,966.4	2,930.9	35.43	83.716		
6,300.0	6,142.7	5,454.9	5,197.8	29.4	33.7	-162.99	-763.3	1,416.7	3,015.7	2,979.3	36.36	82.931		
6,400.0	6,241.5	5,544.2	5,282.3	29.7	34.3	-163.37	-777.2	1,441.8	3,060.6	3,023.4	37.20	82.285		
6,500.0	6,341.0	5,635.6	5,368.8	29.9	34.9	-163.66	-791.4	1,467.5	3,101.0	3,063.1	37.92	81.775		
6,600.0	6,440.8	5,728.8	5,457.1	30.0	35.5	-163.87	-805.9	1,493.7	3,136.8	3,098.3	38.54	81.399		
6,643.2	6,484.0	5,769.5	5,495.6	30.1	35.8	105.47	-812.3	1,505.2	3,150.8	3,112.0	38.77	81.268		
6,700.0	6,540.8	5,823.3	5,546.6	30.1	36.1	105.55	-820.7	1,520.3	3,168.6	3,129.6	39.03	81.184		
6,800.0	6,640.8	5,918.0	5,636.2	30.2	36.8	105.68	-835.4	1,547.0	3,200.0	3,160.5	39.49	81.038		
6,900.0	6,740.8	6,012.7	5,725.9	30.3	37.4	105.81	-850.1	1,573.6	3,231.4	3,191.5	39.94	80.897		
7,000.0	6,840.8	7,149.9	6,840.8	30.4	40.9	106.49	-932.0	1,721.5	3,232.7	3,190.4	42.33	76.362		
7,100.0	6,940.8	7,249.9	6,940.8	30.5	41.0	106.49	-932.0	1,721.5	3,232.7	3,190.1	42.61	75.860		
7,200.0	7,040.8	7,349.9	7,040.8	30.6	41.0	106.49	-932.0	1,721.5	3,232.7	3,189.8	42.90	75.358		
7,300.0	7,140.8	7,449.9	7,140.8	30.7	41.1	106.49	-932.0	1,721.5	3,232.7	3,189.5	43.18	74.859		
7,400.0	7,240.8	7,549.9	7,240.8	30.8	41.2	106.49	-932.0	1,721.5	3,232.7	3,189.2	43.47	74.361		
7,500.0	7,340.8	7,649.9	7,340.8	31.0	41.3	106.49	-932.0	1,721.5	3,232.7	3,188.9	43.77	73.865		
7,600.0	7,440.8	7,749.9	7,440.8	31.1	41.4	106.49	-932.0	1,721.5	3,232.7	3,188.7	44.06	73.371		
7,700.0	7,540.8	7,849.9	7,540.8	31.2	41.4	106.49	-932.0	1,721.5	3,232.7	3,188.4	44.36	72.879		
7,800.0	7,640.8	7,949.9	7,640.8	31.3	41.5	106.49	-932.0	1,721.5	3,232.7	3,188.1	44.66	72.389		
7,900.0	7,740.8	8,049.9	7,740.8	31.4	41.6	106.49	-932.0	1,721.5	3,232.7	3,187.8	44.96	71.902		
8,000.0	7,840.8	8,149.9	7,840.8	31.5	41.7	106.49	-932.0	1,721.5	3,232.7	3,187.4	45.27	71.417		
8,100.0	7,940.8	8,249.9	7,940.8	31.6	41.8	106.49	-932.0	1,721.5	3,232.7	3,187.1	45.57	70.935		
8,200.0	8,040.8	8,349.9	8,040.8	31.8	41.8	106.49	-932.0	1,721.5	3,232.7	3,186.8	45.88	70.456		
8,300.0	8,140.8	8,449.9	8,140.8	31.9	41.9	106.49	-932.0	1,721.5	3,232.7	3,186.5	46.20	69.979		
8,400.0	8,240.8	8,549.9	8,240.8	32.0	42.0	106.49	-932.0	1,721.5	3,232.7	3,186.2	46.51	69.506		
8,500.0	8,340.8	8,649.9	8,340.8	32.1	42.1	106.49	-932.0	1,721.5	3,232.7	3,185.9	46.83	69.036		
8,600.0	8,440.8	8,749.9	8,440.8	32.3	42.2	106.49	-932.0	1,721.5	3,232.7	3,185.6	47.15	68.568		
8,680.2	8,521.0	8,830.1	8,521.0	32.3	42.3	106.49	-932.0	1,721.5	3,232.7	3,185.3	47.40	68.196		

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 12C-12 F12
Project:	Garfield County, CO	TVD Reference:	30' KB @ 8279.0usft (H&P 330)
Reference Site:	S12-T7S-R97W	MD Reference:	30' KB @ 8279.0usft (H&P 330)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 12C-12 F12	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S12-T7S-R97W - PUCKETT SWD F12-797 - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-ISCSWA MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
0.0	0.0	0.0	0.0	0.0	0.0	50.70	45.5	55.6	71.9					
100.0	100.0	100.0	100.0	0.1	0.1	50.70	45.5	55.6	71.9	71.7	0.16	456.855		
200.0	200.0	200.0	200.0	0.3	0.3	50.70	45.5	55.6	71.9	71.3	0.61	118.444		
300.0	300.0	300.0	300.0	0.5	0.5	50.70	45.5	55.6	71.9	70.8	1.06	68.042 CC, ES		
400.0	400.0	400.0	400.0	0.7	0.8	142.52	45.5	55.6	73.9	72.4	1.54	48.125		
500.0	499.6	499.6	499.6	1.0	1.0	145.81	45.5	55.6	80.3	78.2	2.07	38.869		
600.0	598.8	598.8	598.8	1.3	1.2	150.24	45.5	55.6	91.4	88.8	2.64	34.653		
700.0	697.1	697.1	697.1	1.6	1.4	154.83	45.5	55.6	107.7	104.4	3.24	33.266 SF		
750.7	746.5	746.5	746.5	1.8	1.5	157.02	45.5	55.6	117.9	114.4	3.54	33.275		
800.0	794.5	794.5	794.5	2.0	1.6	159.02	45.5	55.6	128.7	124.9	3.76	34.172		
900.0	891.7	891.7	891.7	2.5	1.9	162.19	45.5	55.6	150.8	146.6	4.22	35.767		
1,000.0	988.9	988.9	988.9	3.0	2.1	164.55	45.5	55.6	173.2	168.6	4.67	37.082		
1,100.0	1,086.1	1,086.1	1,086.1	3.4	2.3	166.37	45.5	55.6	195.9	190.8	5.13	38.162		
1,200.0	1,183.4	1,183.4	1,183.4	3.9	2.5	167.81	45.5	55.6	218.7	213.1	5.60	39.052		
1,300.0	1,280.6	1,280.6	1,280.6	4.4	2.7	168.98	45.5	55.6	241.7	235.6	6.07	39.793		
1,400.0	1,377.8	1,377.8	1,377.8	4.9	3.0	169.95	45.5	55.6	264.7	258.1	6.55	40.414		
1,500.0	1,475.1	1,475.1	1,475.1	5.4	3.2	170.76	45.5	55.6	287.7	280.7	7.03	40.940		
1,600.0	1,572.3	1,572.3	1,572.3	5.9	3.4	171.45	45.5	55.6	310.9	303.4	7.51	41.390		
1,700.0	1,669.5	1,669.5	1,669.5	6.4	3.6	172.05	45.5	55.6	334.0	326.0	7.99	41.779		
1,800.0	1,766.7	1,766.7	1,766.7	6.9	3.8	172.57	45.5	55.6	357.2	348.7	8.48	42.117		
1,900.0	1,864.0	1,864.0	1,864.0	7.4	4.0	173.02	45.5	55.6	380.4	371.4	8.97	42.415		
2,000.0	1,961.2	1,961.2	1,961.2	7.9	4.3	173.42	45.5	55.6	403.6	394.2	9.46	42.678		
2,100.0	2,058.4	2,058.4	2,058.4	8.4	4.5	173.78	45.5	55.6	426.9	416.9	9.95	42.913		
2,200.0	2,155.7	2,155.7	2,155.7	8.9	4.7	174.11	45.5	55.6	450.1	439.7	10.44	43.124		
2,300.0	2,252.9	2,252.9	2,252.9	9.4	4.9	174.40	45.5	55.6	473.4	462.5	10.93	43.315		
2,400.0	2,350.1	2,350.1	2,350.1	9.9	5.1	174.66	45.5	55.6	496.7	485.3	11.42	43.489		
2,500.0	2,447.3	2,447.3	2,447.3	10.4	5.4	174.90	45.5	55.6	520.0	508.1	11.91	43.647		
2,600.0	2,544.6	2,544.6	2,544.6	10.9	5.6	175.12	45.5	55.6	543.3	530.9	12.41	43.793		
2,700.0	2,641.8	2,641.8	2,641.8	11.4	5.8	175.32	45.5	55.6	566.6	553.7	12.90	43.928		
2,800.0	2,739.0	2,739.0	2,739.0	11.9	6.0	175.51	45.5	55.6	589.9	576.5	13.39	44.053		
2,900.0	2,836.3	2,836.3	2,836.3	12.4	6.2	175.68	45.5	55.6	613.2	599.3	13.88	44.169		
3,000.0	2,933.5	2,933.5	2,933.5	12.9	6.4	175.84	45.5	55.6	636.5	622.1	14.38	44.278		
3,100.0	3,030.7	3,030.7	3,030.7	13.4	6.7	175.98	45.5	55.6	659.8	645.0	14.87	44.381		
3,200.0	3,127.9	3,127.9	3,127.9	13.9	6.9	176.12	45.5	55.6	683.2	667.8	15.36	44.477		
3,300.0	3,225.2	3,225.2	3,225.2	14.4	7.1	176.25	45.5	55.6	706.5	690.7	15.85	44.568		
3,400.0	3,322.4	3,322.4	3,322.4	15.0	7.3	176.37	45.5	55.6	729.8	713.5	16.34	44.655		
3,500.0	3,419.6	3,419.6	3,419.6	15.5	7.5	176.48	45.5	55.6	753.2	736.3	16.84	44.737		
3,600.0	3,516.9	3,516.9	3,516.9	16.0	7.8	176.59	45.5	55.6	776.5	759.2	17.33	44.816		
3,700.0	3,614.1	3,614.1	3,614.1	16.5	8.0	176.69	45.5	55.6	799.9	782.0	17.82	44.891		
3,800.0	3,711.3	3,711.3	3,711.3	17.0	8.2	176.78	45.5	55.6	823.2	804.9	18.31	44.963		
3,900.0	3,808.5	3,808.5	3,808.5	17.5	8.4	176.87	45.5	55.6	846.6	827.8	18.80	45.032		
4,000.0	3,905.8	3,905.8	3,905.8	18.0	8.6	176.95	45.5	55.6	869.9	850.6	19.29	45.099		
4,100.0	4,003.0	4,003.0	4,003.0	18.5	8.9	177.03	45.5	55.6	893.3	873.5	19.78	45.163		
4,200.0	4,100.2	4,100.2	4,100.2	19.0	9.1	177.11	45.5	55.6	916.6	896.3	20.27	45.225		
4,300.0	4,197.4	4,197.4	4,197.4	19.5	9.3	177.18	45.5	55.6	940.0	919.2	20.76	45.285		
4,400.0	4,294.7	4,294.7	4,294.7	20.0	9.5	177.25	45.5	55.6	963.3	942.1	21.24	45.344		
4,500.0	4,391.9	4,391.9	4,391.9	20.5	9.7	177.31	45.5	55.6	986.7	964.9	21.73	45.400		
4,600.0	4,489.1	4,489.1	4,489.1	21.0	9.9	177.38	45.5	55.6	1,010.0	987.8	22.22	45.456		
4,700.0	4,586.4	4,586.4	4,586.4	21.5	10.2	177.44	45.5	55.6	1,033.4	1,010.7	22.71	45.509		
4,800.0	4,683.6	4,683.6	4,683.6	22.0	10.4	177.49	45.5	55.6	1,056.7	1,033.6	23.19	45.562		
4,900.0	4,780.8	4,780.8	4,780.8	22.5	10.6	177.55	45.5	55.6	1,080.1	1,056.4	23.68	45.613		
5,000.0	4,878.0	4,878.0	4,878.0	23.0	10.8	177.60	45.5	55.6	1,103.5	1,079.3	24.17	45.663		

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

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 12C-12 F12
Project:	Garfield County, CO	TVD Reference:	30' KB @ 8279.0usft (H&P 330)
Reference Site:	S12-T7S-R97W	MD Reference:	30' KB @ 8279.0usft (H&P 330)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 12C-12 F12	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S12-T7S-R97W - PUCKETT SWD F12-797 - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-ISCSWA MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
5,100.0	4,975.3	4,975.3	4,975.3	23.5	11.0	177.65	45.5	55.6	1,126.8	1,102.2	24.65	45.713		
5,200.0	5,072.5	5,072.5	5,072.5	24.0	11.3	177.70	45.5	55.6	1,150.2	1,125.1	25.13	45.761		
5,300.0	5,169.7	5,169.7	5,169.7	24.5	11.5	177.74	45.5	55.6	1,173.6	1,147.9	25.62	45.808		
5,400.0	5,267.0	5,267.0	5,267.0	25.0	11.7	177.79	45.5	55.6	1,196.9	1,170.8	26.10	45.854		
5,500.0	5,364.2	5,364.2	5,364.2	25.5	11.9	177.83	45.5	55.6	1,220.3	1,193.7	26.59	45.900		
5,600.0	5,461.4	5,461.4	5,461.4	26.0	12.1	177.87	45.5	55.6	1,243.7	1,216.6	27.07	45.945		
5,700.0	5,558.6	5,558.6	5,558.6	26.5	12.3	177.91	45.5	55.6	1,267.0	1,239.5	27.55	45.989		
5,800.0	5,655.9	5,655.9	5,655.9	27.0	12.6	177.95	45.5	55.6	1,290.4	1,262.4	28.03	46.033		
5,900.0	5,753.1	5,753.1	5,753.1	27.5	12.8	177.98	45.5	55.6	1,313.8	1,285.2	28.51	46.076		
6,000.0	5,850.3	5,850.3	5,850.3	28.1	13.0	178.02	45.5	55.6	1,337.1	1,308.1	28.99	46.118		
6,100.0	5,947.6	5,947.6	5,947.6	28.6	13.2	178.05	45.5	55.6	1,360.5	1,331.0	29.47	46.160		
6,192.5	6,037.5	6,037.5	6,037.5	29.0	13.4	178.08	45.5	55.6	1,382.1	1,352.2	29.92	46.198		
6,200.0	6,044.8	6,044.8	6,044.8	29.1	13.4	178.09	45.5	55.6	1,383.8	1,353.9	29.96	46.185		
6,300.0	6,142.7	6,142.7	6,142.7	29.4	13.7	178.14	45.5	55.6	1,404.3	1,373.8	30.51	46.028		
6,400.0	6,241.5	6,241.5	6,241.5	29.7	13.9	178.17	45.5	55.6	1,419.6	1,388.6	30.96	45.850		
6,500.0	6,341.0	6,341.0	6,341.0	29.9	14.1	178.19	45.5	55.6	1,429.6	1,398.3	31.32	45.653		
6,600.0	6,440.8	6,440.8	6,440.8	30.0	14.3	178.20	45.5	55.6	1,434.5	1,402.9	31.57	45.440		
6,643.2	6,484.0	6,484.0	6,484.0	30.1	14.4	87.62	45.5	55.6	1,435.0	1,403.4	31.65	45.338		
6,700.0	6,540.8	6,540.8	6,540.8	30.1	14.6	87.62	45.5	55.6	1,435.0	1,403.1	31.87	45.026		
6,800.0	6,640.8	6,640.8	6,640.8	30.2	14.8	87.62	45.5	55.6	1,435.0	1,402.7	32.26	44.484		
6,900.0	6,740.8	6,740.8	6,740.8	30.3	15.0	87.62	45.5	55.6	1,435.0	1,402.4	32.65	43.953		
7,000.0	6,840.8	6,840.8	6,840.8	30.4	15.2	87.62	45.5	55.6	1,435.0	1,402.0	33.04	43.433		
7,100.0	6,940.8	6,940.8	6,940.8	30.5	15.5	87.62	45.5	55.6	1,435.0	1,401.6	33.43	42.923		
7,200.0	7,040.8	7,040.8	7,040.8	30.6	15.7	87.62	45.5	55.6	1,435.0	1,401.2	33.83	42.424		
7,300.0	7,140.8	7,140.8	7,140.8	30.7	15.9	87.62	45.5	55.6	1,435.0	1,400.8	34.22	41.935		
7,400.0	7,240.8	7,240.8	7,240.8	30.8	16.1	87.62	45.5	55.6	1,435.0	1,400.4	34.62	41.455		
7,500.0	7,340.8	7,340.8	7,340.8	31.0	16.4	87.62	45.5	55.6	1,435.0	1,400.0	35.01	40.985		
7,600.0	7,440.8	7,440.8	7,440.8	31.1	16.6	87.62	45.5	55.6	1,435.0	1,399.6	35.41	40.524		
7,700.0	7,540.8	7,540.8	7,540.8	31.2	16.8	87.62	45.5	55.6	1,435.0	1,399.2	35.81	40.072		
7,800.0	7,640.8	7,640.8	7,640.8	31.3	17.0	87.62	45.5	55.6	1,435.0	1,398.8	36.21	39.629		
7,900.0	7,740.8	7,740.8	7,740.8	31.4	17.3	87.62	45.5	55.6	1,435.0	1,398.4	36.61	39.195		
8,000.0	7,840.8	7,840.8	7,840.8	31.5	17.5	87.62	45.5	55.6	1,435.0	1,398.0	37.01	38.769		
8,100.0	7,940.8	7,940.8	7,940.8	31.6	17.7	87.62	45.5	55.6	1,435.0	1,397.6	37.42	38.351		
8,200.0	8,040.8	8,040.8	8,040.8	31.8	17.9	87.62	45.5	55.6	1,435.0	1,397.2	37.82	37.941		
8,300.0	8,140.8	8,140.8	8,140.8	31.9	18.2	87.62	45.5	55.6	1,435.0	1,396.8	38.23	37.539		
8,400.0	8,240.8	8,240.8	8,240.8	32.0	18.4	87.62	45.5	55.6	1,435.0	1,396.4	38.63	37.145		
8,500.0	8,340.8	8,340.8	8,340.8	32.1	18.6	87.62	45.5	55.6	1,435.0	1,396.0	39.04	36.757		
8,600.0	8,440.8	8,440.8	8,440.8	32.3	18.8	87.62	45.5	55.6	1,435.0	1,395.6	39.45	36.377		
8,680.2	8,521.0	8,521.0	8,521.0	32.3	19.0	87.62	45.5	55.6	1,435.0	1,395.2	39.78	36.078		

Anticollision Report

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Reference Well:	PUCKETT 12C-12 F12	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Reference Depths are relative to 30' KB @ 8279.0usft (H&P 330)

Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

Coordinates are relative to: PUCKETT 12C-12 F12

Coordinate System is US State Plane 1927 (Exact solution), Colorado Central 502

Grid Convergence at Surface is: -1.69°

