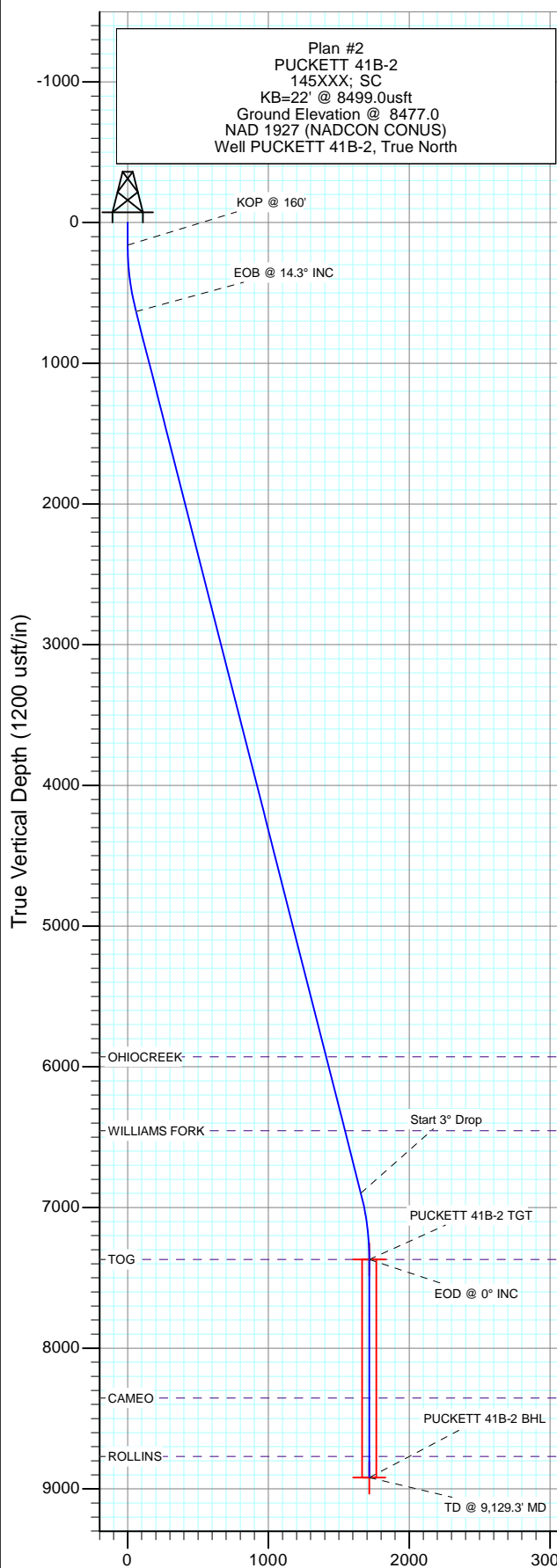
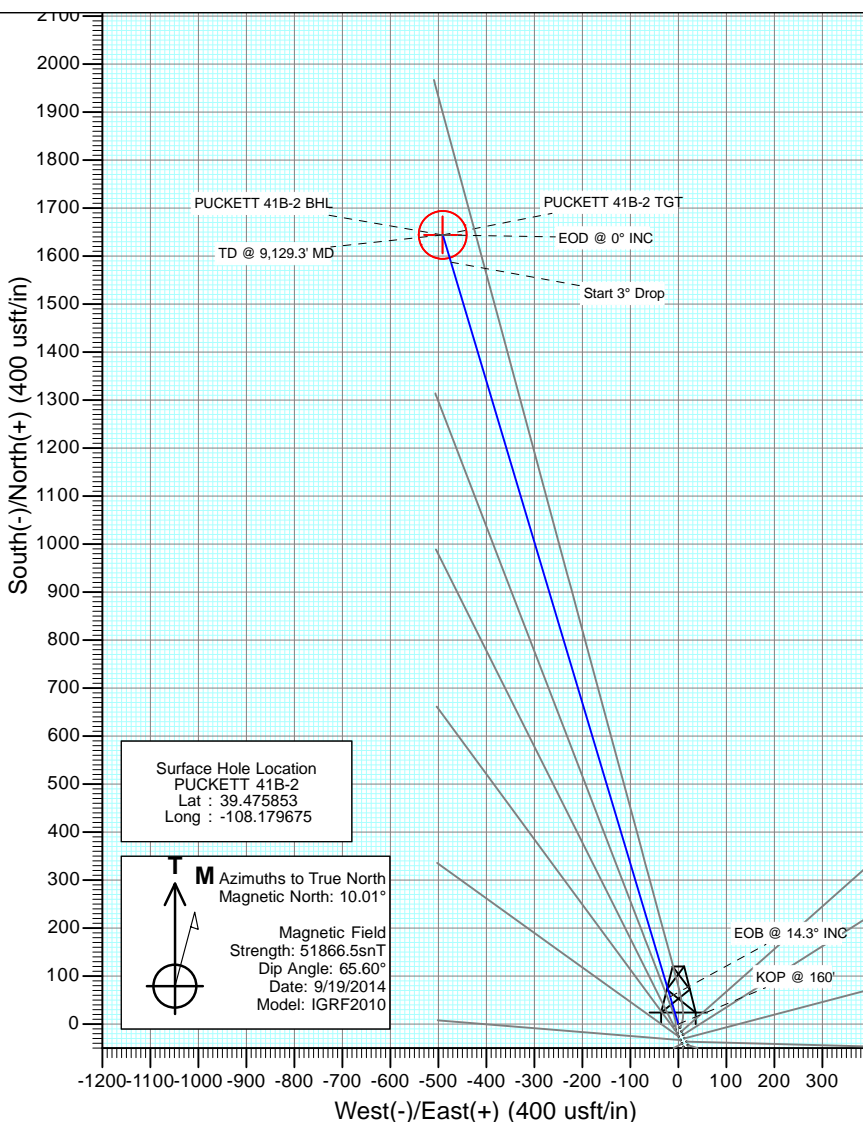




Project: Garfield County, CO
Site: S2-T7S-R97W (Puckett Pad)
Well: PUCKETT 41B-2
Wellbore: DD
Design: Plan #2

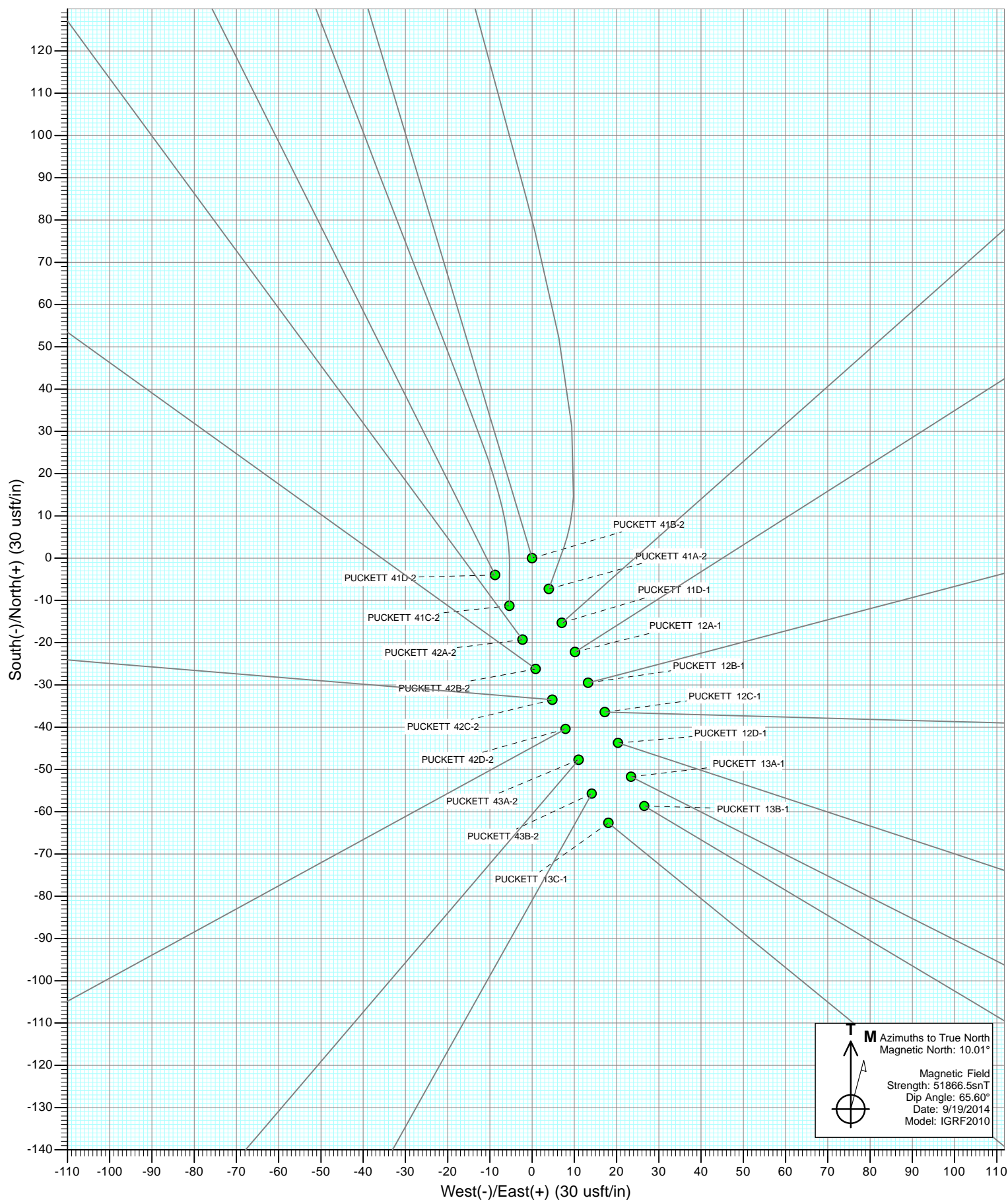


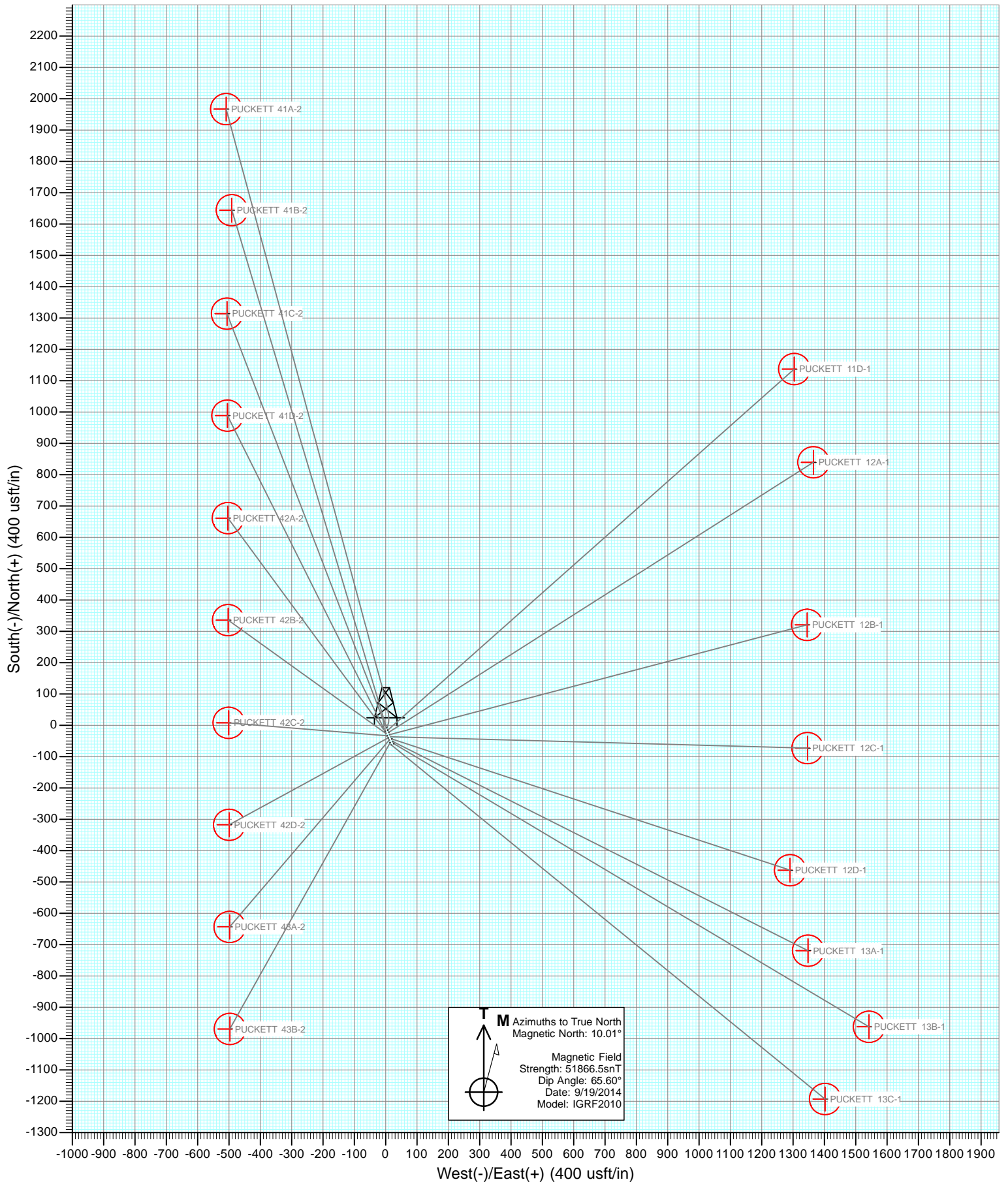
SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	160.0	0.00	0.00	160.0	0.0	0.0	0.00	0.00	0.0	
3	636.8	14.30	343.38	631.9	56.7	-16.9	3.00	343.38	59.2	
4	7102.5	14.30	343.38	6897.1	1587.4	-473.9	0.00	0.00	1656.7	
5	7579.3	0.00	0.00	7369.0	1644.2	-490.9	3.00	180.00	1715.9	PUCKETT 41B-2 TGT
6	9129.3	0.00	0.00	8919.0	1644.2	-490.9	0.00	0.00	1715.9	PUCKETT 41B-2 BHL



DESIGN TARGET DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PUCKETT 41B-2 TGT	1644.2	-490.9	611009.77	1243225.90	39.480367	-108.181414
PUCKETT 41B-2 BHL	1644.2	-490.9	611009.77	1243225.90	39.480367	-108.181414





Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well PUCKETT 41B-2
Company:	Caerus Oil & Gas (NAD 27)	TVD Reference:	KB=22' @ 8499.0usft
Project:	Garfield County, CO	MD Reference:	KB=22' @ 8499.0usft
Site:	S2-T7S-R97W (Puckett Pad)	North Reference:	True
Well:	PUCKETT 41B-2	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
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		S2-T7S-R97W (Puckett Pad)			
Site Position:		Northing:	609,295.75 usft	Latitude:	39.475700
From:	Lat/Long	Easting:	1,243,680.53 usft	Longitude:	-108.179625
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-1.69 °

Well	PUCKETT 41B-2					
Well Position	+N/-S	0.0 usft	Northing:	609,351.86 usft	Latitude:	39.475853
	+E/-W	0.0 usft	Easting:	1,243,668.06 usft	Longitude:	-108.179675
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	8,477.0 usft

Wellbore	DD				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2010	9/19/2014	10.01	65.60	51,866

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	343.38

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	
160.0	0.00	0.00	160.0	0.0	0.0	0.00	0.00	0.00	0.00	
636.8	14.30	343.38	631.9	56.7	-16.9	3.00	3.00	0.00	343.38	
7,102.5	14.30	343.38	6,897.1	1,587.4	-473.9	0.00	0.00	0.00	0.00	
7,579.3	0.00	0.00	7,369.0	1,644.2	-490.9	3.00	-3.00	0.00	180.00	PUCKETT 41B-2 TG1
9,129.3	0.00	0.00	8,919.0	1,644.2	-490.9	0.00	0.00	0.00	0.00	PUCKETT 41B-2 BHL

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well PUCKETT 41B-2
Company:	Caerus Oil & Gas (NAD 27)	TVD Reference:	KB=22' @ 8499.0usft
Project:	Garfield County, CO	MD Reference:	KB=22' @ 8499.0usft
Site:	S2-T7S-R97W (Puckett Pad)	North Reference:	True
Well:	PUCKETT 41B-2	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
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	
160.0	0.00	0.00	160.0	0.0	0.0	0.0	0.00	0.00	KOP @ 160'
200.0	1.20	343.38	200.0	0.4	-0.1	0.4	3.00	3.00	
300.0	4.20	343.38	299.9	4.9	-1.5	5.1	3.00	3.00	
400.0	7.20	343.38	399.4	14.4	-4.3	15.1	3.00	3.00	
500.0	10.20	343.38	498.2	28.9	-8.6	30.2	3.00	3.00	
600.0	13.20	343.38	596.1	48.4	-14.4	50.5	3.00	3.00	
636.8	14.30	343.38	631.9	56.7	-16.9	59.2	3.00	3.00	EOB @ 14.3° INC
700.0	14.30	343.38	693.1	71.7	-21.4	74.8	0.00	0.00	
800.0	14.30	343.38	790.0	95.4	-28.5	99.5	0.00	0.00	
900.0	14.30	343.38	886.9	119.0	-35.5	124.2	0.00	0.00	
1,000.0	14.30	343.38	983.8	142.7	-42.6	148.9	0.00	0.00	
1,100.0	14.30	343.38	1,080.7	166.4	-49.7	173.6	0.00	0.00	
1,200.0	14.30	343.38	1,177.6	190.1	-56.7	198.4	0.00	0.00	
1,300.0	14.30	343.38	1,274.5	213.7	-63.8	223.1	0.00	0.00	
1,400.0	14.30	343.38	1,371.4	237.4	-70.9	247.8	0.00	0.00	
1,500.0	14.30	343.38	1,468.3	261.1	-77.9	272.5	0.00	0.00	
1,600.0	14.30	343.38	1,565.2	284.8	-85.0	297.2	0.00	0.00	
1,700.0	14.30	343.38	1,662.1	308.4	-92.1	321.9	0.00	0.00	
1,800.0	14.30	343.38	1,759.0	332.1	-99.2	346.6	0.00	0.00	
1,900.0	14.30	343.38	1,855.9	355.8	-106.2	371.3	0.00	0.00	
2,000.0	14.30	343.38	1,952.8	379.5	-113.3	396.0	0.00	0.00	
2,100.0	14.30	343.38	2,049.7	403.1	-120.4	420.7	0.00	0.00	
2,200.0	14.30	343.38	2,146.6	426.8	-127.4	445.4	0.00	0.00	
2,300.0	14.30	343.38	2,243.5	450.5	-134.5	470.1	0.00	0.00	
2,400.0	14.30	343.38	2,340.4	474.2	-141.6	494.8	0.00	0.00	
2,500.0	14.30	343.38	2,437.3	497.8	-148.6	519.5	0.00	0.00	
2,600.0	14.30	343.38	2,534.2	521.5	-155.7	544.2	0.00	0.00	
2,700.0	14.30	343.38	2,631.1	545.2	-162.8	569.0	0.00	0.00	
2,800.0	14.30	343.38	2,728.0	568.8	-169.8	593.7	0.00	0.00	
2,900.0	14.30	343.38	2,824.9	592.5	-176.9	618.4	0.00	0.00	
3,000.0	14.30	343.38	2,921.8	616.2	-184.0	643.1	0.00	0.00	
3,100.0	14.30	343.38	3,018.7	639.9	-191.0	667.8	0.00	0.00	
3,200.0	14.30	343.38	3,115.6	663.5	-198.1	692.5	0.00	0.00	
3,300.0	14.30	343.38	3,212.5	687.2	-205.2	717.2	0.00	0.00	
3,400.0	14.30	343.38	3,309.4	710.9	-212.2	741.9	0.00	0.00	
3,500.0	14.30	343.38	3,406.3	734.6	-219.3	766.6	0.00	0.00	
3,600.0	14.30	343.38	3,503.2	758.2	-226.4	791.3	0.00	0.00	
3,700.0	14.30	343.38	3,600.1	781.9	-233.4	816.0	0.00	0.00	
3,800.0	14.30	343.38	3,697.0	805.6	-240.5	840.7	0.00	0.00	
3,900.0	14.30	343.38	3,793.9	829.3	-247.6	865.4	0.00	0.00	
4,000.0	14.30	343.38	3,890.8	852.9	-254.6	890.1	0.00	0.00	
4,100.0	14.30	343.38	3,987.7	876.6	-261.7	914.8	0.00	0.00	
4,200.0	14.30	343.38	4,084.6	900.3	-268.8	939.5	0.00	0.00	
4,300.0	14.30	343.38	4,181.5	924.0	-275.9	964.3	0.00	0.00	
4,400.0	14.30	343.38	4,278.4	947.6	-282.9	989.0	0.00	0.00	
4,500.0	14.30	343.38	4,375.3	971.3	-290.0	1,013.7	0.00	0.00	
4,600.0	14.30	343.38	4,472.2	995.0	-297.1	1,038.4	0.00	0.00	
4,700.0	14.30	343.38	4,569.1	1,018.7	-304.1	1,063.1	0.00	0.00	
4,800.0	14.30	343.38	4,666.0	1,042.3	-311.2	1,087.8	0.00	0.00	
4,900.0	14.30	343.38	4,762.9	1,066.0	-318.3	1,112.5	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well PUCKETT 41B-2
Company:	Caerus Oil & Gas (NAD 27)	TVD Reference:	KB=22' @ 8499.0usft
Project:	Garfield County, CO	MD Reference:	KB=22' @ 8499.0usft
Site:	S2-T7S-R97W (Puckett Pad)	North Reference:	True
Well:	PUCKETT 41B-2	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
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
5,000.0	14.30	343.38	4,859.8	1,089.7	-325.3	1,137.2	0.00	0.00	
5,100.0	14.30	343.38	4,956.7	1,113.3	-332.4	1,161.9	0.00	0.00	
5,200.0	14.30	343.38	5,053.6	1,137.0	-339.5	1,186.6	0.00	0.00	
5,300.0	14.30	343.38	5,150.5	1,160.7	-346.5	1,211.3	0.00	0.00	
5,400.0	14.30	343.38	5,247.4	1,184.4	-353.6	1,236.0	0.00	0.00	
5,500.0	14.30	343.38	5,344.3	1,208.0	-360.7	1,260.7	0.00	0.00	
5,600.0	14.30	343.38	5,441.2	1,231.7	-367.7	1,285.4	0.00	0.00	
5,700.0	14.30	343.38	5,538.1	1,255.4	-374.8	1,310.1	0.00	0.00	
5,800.0	14.30	343.38	5,635.0	1,279.1	-381.9	1,334.9	0.00	0.00	
5,900.0	14.30	343.38	5,731.9	1,302.7	-388.9	1,359.6	0.00	0.00	
6,000.0	14.30	343.38	5,828.8	1,326.4	-396.0	1,384.3	0.00	0.00	
6,100.0	14.30	343.38	5,925.7	1,350.1	-403.1	1,409.0	0.00	0.00	
6,103.4	14.30	343.38	5,929.0	1,350.9	-403.3	1,409.8	0.00	0.00	OHIOCREEK
6,200.0	14.30	343.38	6,022.6	1,373.8	-410.1	1,433.7	0.00	0.00	
6,300.0	14.30	343.38	6,119.5	1,397.4	-417.2	1,458.4	0.00	0.00	
6,400.0	14.30	343.38	6,216.4	1,421.1	-424.3	1,483.1	0.00	0.00	
6,500.0	14.30	343.38	6,313.3	1,444.8	-431.3	1,507.8	0.00	0.00	
6,600.0	14.30	343.38	6,410.2	1,468.5	-438.4	1,532.5	0.00	0.00	
6,645.2	14.30	343.38	6,454.0	1,479.2	-441.6	1,543.7	0.00	0.00	WILLIAMS FORK
6,700.0	14.30	343.38	6,507.1	1,492.1	-445.5	1,557.2	0.00	0.00	
6,800.0	14.30	343.38	6,604.0	1,515.8	-452.5	1,581.9	0.00	0.00	
6,900.0	14.30	343.38	6,700.9	1,539.5	-459.6	1,606.6	0.00	0.00	
7,000.0	14.30	343.38	6,797.8	1,563.1	-466.7	1,631.3	0.00	0.00	
7,102.5	14.30	343.38	6,897.1	1,587.4	-473.9	1,656.7	0.00	0.00	Start 3° Drop
7,200.0	11.38	343.38	6,992.2	1,608.2	-480.1	1,678.3	3.00	-3.00	
7,300.0	8.38	343.38	7,090.7	1,624.6	-485.0	1,695.5	3.00	-3.00	
7,400.0	5.38	343.38	7,189.9	1,636.1	-488.5	1,707.5	3.00	-3.00	
7,500.0	2.38	343.38	7,289.7	1,642.6	-490.4	1,714.2	3.00	-3.00	
7,579.3	0.00	0.00	7,369.0	1,644.2	-490.9	1,715.9	3.00	-3.00	EOD @ 0° INC - TOG
7,600.0	0.00	0.00	7,389.7	1,644.2	-490.9	1,715.9	0.00	0.00	
7,700.0	0.00	0.00	7,489.7	1,644.2	-490.9	1,715.9	0.00	0.00	
7,800.0	0.00	0.00	7,589.7	1,644.2	-490.9	1,715.9	0.00	0.00	
7,900.0	0.00	0.00	7,689.7	1,644.2	-490.9	1,715.9	0.00	0.00	
8,000.0	0.00	0.00	7,789.7	1,644.2	-490.9	1,715.9	0.00	0.00	
8,100.0	0.00	0.00	7,889.7	1,644.2	-490.9	1,715.9	0.00	0.00	
8,200.0	0.00	0.00	7,989.7	1,644.2	-490.9	1,715.9	0.00	0.00	
8,300.0	0.00	0.00	8,089.7	1,644.2	-490.9	1,715.9	0.00	0.00	
8,400.0	0.00	0.00	8,189.7	1,644.2	-490.9	1,715.9	0.00	0.00	
8,500.0	0.00	0.00	8,289.7	1,644.2	-490.9	1,715.9	0.00	0.00	
8,564.3	0.00	0.00	8,354.0	1,644.2	-490.9	1,715.9	0.00	0.00	CAMEO
8,600.0	0.00	0.00	8,389.7	1,644.2	-490.9	1,715.9	0.00	0.00	
8,700.0	0.00	0.00	8,489.7	1,644.2	-490.9	1,715.9	0.00	0.00	
8,800.0	0.00	0.00	8,589.7	1,644.2	-490.9	1,715.9	0.00	0.00	
8,900.0	0.00	0.00	8,689.7	1,644.2	-490.9	1,715.9	0.00	0.00	
8,979.3	0.00	0.00	8,769.0	1,644.2	-490.9	1,715.9	0.00	0.00	ROLLINS
9,000.0	0.00	0.00	8,789.7	1,644.2	-490.9	1,715.9	0.00	0.00	
9,100.0	0.00	0.00	8,889.7	1,644.2	-490.9	1,715.9	0.00	0.00	
9,129.3	0.00	0.00	8,919.0	1,644.2	-490.9	1,715.9	0.00	0.00	TD @ 9,129.3' MD

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well PUCKETT 41B-2
Company:	Caerus Oil & Gas (NAD 27)	TVD Reference:	KB=22' @ 8499.0usft
Project:	Garfield County, CO	MD Reference:	KB=22' @ 8499.0usft
Site:	S2-T7S-R97W (Puckett Pad)	North Reference:	True
Well:	PUCKETT 41B-2	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #2		

Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
PUCKETT 41B-2 BHL	0.00	0.00	8,919.0	1,644.2	-490.9	611,009.77	1,243,225.90	39.480367	-108.181414
- plan hits target center									
- Circle (radius 50.0)									
PUCKETT 41B-2 TGT	0.00	0.00	7,369.0	1,644.2	-490.9	611,009.77	1,243,225.90	39.480367	-108.181414
- plan hits target center									
- Point									

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(usft)	(usft)			(°)	(°)	
6,103.4	5,929.0	OHIOCREEK				
6,645.2	6,454.0	WILLIAMS FORK				
7,579.3	7,369.0	TOG				
8,564.3	8,354.0	CAMEO				
8,979.3	8,769.0	ROLLINS				

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates			
(usft)	(usft)	+N/-S	+E/-W	Comment	
(usft)	(usft)	(usft)	(usft)		
160.0	160.0	0.0	0.0	KOP @ 160'	
636.8	631.9	56.7	-16.9	EOB @ 14.3° INC	
7,102.5	6,897.1	1,587.4	-473.9	Start 3° Drop	
7,579.3	7,369.0	1,644.2	-490.9	EOD @ 0° INC	
9,129.3	8,919.0	1,644.2	-490.9	TD @ 9,129.3' MD	

Caerus Oil & Gas (NAD 27)

Garfield County, CO

S2-T7S-R97W (Puckett Pad)

PUCKETT 41B-2

DD

Plan #2

Anticollision Report

24 September, 2014

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 41B-2
Project:	Garfield County, CO	TVD Reference:	KB=22' @ 8499.0usft
Reference Site:	S2-T7S-R97W (Puckett Pad)	MD Reference:	KB=22' @ 8499.0usft
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 41B-2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	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:	MD Interval 100.0usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 1,112.9usft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program	Date	9/24/2014		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	9,129.3	Plan #2 (DD)	ISCWSA MWD	MWD - Standard

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 41B-2
Project:	Garfield County, CO	TVD Reference:	KB=22' @ 8499.0usft
Reference Site:	S2-T7S-R97W (Puckett Pad)	MD Reference:	KB=22' @ 8499.0usft
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 41B-2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference	Offset	Distance		Separation	Warning
	Measured Depth (usft)	Measured Depth (usft)	Between Centres (usft)	Between Ellipses (usft)		
S2-T7S-R97W (Puckett Pad)						
PUCKETT 11D-1 - DD - Plan #1	100.0	100.0	16.9	16.7	96.118	CC
PUCKETT 11D-1 - DD - Plan #1	200.0	200.0	17.3	16.6	26.493	ES
PUCKETT 11D-1 - DD - Plan #1	400.0	399.8	29.8	27.9	16.173	SF
PUCKETT 12A-1 - DD - Plan #1	100.0	100.0	24.4	24.3	139.358	CC
PUCKETT 12A-1 - DD - Plan #1	200.0	200.0	24.8	24.2	38.124	ES
PUCKETT 12A-1 - DD - Plan #1	400.0	399.6	38.7	36.9	20.812	SF
PUCKETT 12B-1 - DD - Plan #1	100.0	100.0	32.3	32.2	184.515	CC
PUCKETT 12B-1 - DD - Plan #1	200.0	200.0	32.8	32.1	50.268	ES
PUCKETT 12B-1 - DD - Plan #1	400.0	399.0	47.7	45.8	25.473	SF
PUCKETT 12C-1 - DD - Plan #1	100.0	100.0	40.3	40.1	229.802	CC
PUCKETT 12C-1 - DD - Plan #1	200.0	200.0	40.7	40.1	62.462	ES
PUCKETT 12C-1 - DD - Plan #1	500.0	495.8	72.7	70.2	29.069	SF
PUCKETT 12D-1 - DD - Plan #1	100.0	100.0	48.2	48.0	274.942	CC
PUCKETT 12D-1 - DD - Plan #1	200.0	200.0	48.6	48.0	74.602	ES
PUCKETT 12D-1 - DD - Plan #1	500.0	492.5	85.0	82.4	33.760	SF
PUCKETT 13A-1 - DD - Plan #1	100.0	100.0	56.8	56.6	323.871	CC
PUCKETT 13A-1 - DD - Plan #1	200.0	200.0	57.2	56.5	87.755	ES
PUCKETT 13A-1 - DD - Plan #1	500.0	488.8	98.9	96.4	39.010	SF
PUCKETT 13B-1 - DD - Plan #1	100.0	100.0	64.4	64.2	367.135	CC
PUCKETT 13B-1 - DD - Plan #1	200.0	200.0	64.8	64.1	99.393	ES
PUCKETT 13B-1 - DD - Plan #1	500.0	484.8	112.9	110.3	43.997	SF
PUCKETT 13C-1 - DD - Plan #1	100.0	100.0	65.2	65.0	371.900	CC
PUCKETT 13C-1 - DD - Plan #1	143.2	143.2	65.4	65.0	172.606	ES
PUCKETT 13C-1 - DD - Plan #1	500.0	482.7	117.8	115.2	45.316	SF
PUCKETT 41A-2 - DD - Plan #1	100.0	100.0	8.3	8.1	47.272	CC
PUCKETT 41A-2 - DD - Plan #1	200.0	200.0	8.7	8.0	13.357	ES
PUCKETT 41A-2 - DD - Plan #1	1,400.0	1,404.9	28.3	17.3	2.580	SF
PUCKETT 41C-2 - DD - Plan #1	100.0	100.0	12.5	12.3	71.301	CC
PUCKETT 41C-2 - DD - Plan #1	200.0	200.0	12.8	12.2	19.999	ES
PUCKETT 41C-2 - DD - Plan #1	9,129.3	9,053.7	330.5	281.4	6.726	SF
PUCKETT 41D-2 - DD - Plan #1	100.0	100.0	9.6	9.4	54.898	CC
PUCKETT 41D-2 - DD - Plan #1	200.0	200.0	9.7	9.1	15.507	ES
PUCKETT 41D-2 - DD - Plan #1	600.0	599.9	19.3	16.3	6.393	SF
PUCKETT 42A-2 - DD - Plan #1	100.0	100.0	19.4	19.3	110.861	CC
PUCKETT 42A-2 - DD - Plan #1	200.0	200.0	19.8	19.2	30.576	ES
PUCKETT 42A-2 - DD - Plan #1	600.0	601.9	47.3	44.2	15.292	SF
PUCKETT 42B-2 - DD - Plan #1	100.0	100.0	26.2	26.1	149.661	CC
PUCKETT 42B-2 - DD - Plan #1	200.0	200.0	26.6	26.0	40.951	ES
PUCKETT 42B-2 - DD - Plan #1	500.0	501.3	50.6	48.1	20.499	SF
PUCKETT 42C-2 - DD - Plan #1	100.0	100.0	33.9	33.7	193.084	CC
PUCKETT 42C-2 - DD - Plan #1	200.0	200.0	34.3	33.6	52.577	ES
PUCKETT 42C-2 - DD - Plan #1	500.0	499.2	62.8	60.3	25.229	SF
PUCKETT 42D-2 - DD - Plan #1	100.0	100.0	41.2	41.0	234.973	CC
PUCKETT 42D-2 - DD - Plan #1	200.0	200.0	41.6	41.0	63.818	ES
PUCKETT 42D-2 - DD - Plan #1	500.0	496.2	73.7	71.2	29.433	SF
PUCKETT 43A-2 - DD - Plan #1	100.0	100.0	49.0	48.8	279.309	CC
PUCKETT 43A-2 - DD - Plan #1	200.0	200.0	49.4	48.7	75.725	ES
PUCKETT 43A-2 - DD - Plan #1	500.0	492.8	87.0	84.5	34.472	SF
PUCKETT 43B-2 - DD - Plan #1	100.0	100.0	57.5	57.3	327.876	CC
PUCKETT 43B-2 - DD - Plan #1	200.0	200.0	57.9	57.2	88.774	ES
PUCKETT 43B-2 - DD - Plan #1	500.0	487.8	102.0	99.4	39.893	SF

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

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 41B-2
Project:	Garfield County, CO	TVD Reference:	KB=22' @ 8499.0usft
Reference Site:	S2-T7S-R97W (Puckett Pad)	MD Reference:	KB=22' @ 8499.0usft
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 41B-2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S2-T7S-R97W (Puckett Pad) - PUCKETT 11D-1 - DD - 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	Offset		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	155.24	-15.3	7.1	16.9					
100.0	100.0	100.0	100.0	0.1	0.1	155.24	-15.3	7.1	16.9					
138.9	138.9	138.9	138.9	0.2	0.2	171.94	-15.3	7.1	17.0	16.6	0.36	47.480		
200.0	200.0	200.0	200.0	0.3	0.3	172.06	-15.3	7.1	17.3	16.6	0.65	26.493	ES	
300.0	299.9	300.2	300.1	0.6	0.5	167.02	-13.6	9.0	21.2	20.0	1.24	17.103		
400.0	399.4	399.8	399.5	0.8	0.8	156.40	-8.4	14.9	29.8	27.9	1.84	16.173	SF	
500.0	498.2	498.5	497.3	1.1	1.1	147.08	0.2	24.5	43.9	41.4	2.46	17.829		
600.0	596.1	595.9	593.0	1.5	1.4	140.50	11.9	37.6	63.6	60.5	3.14	20.282		
700.0	693.1	691.7	686.3	2.0	1.8	135.86	26.5	54.1	88.3	84.4	3.83	23.043		
800.0	790.0	788.1	779.7	2.5	2.3	132.49	42.5	72.1	114.1	109.5	4.57	24.978		
900.0	886.9	884.6	873.0	2.9	2.7	130.36	58.5	90.1	140.2	134.8	5.36	26.142		
1,000.0	983.8	981.0	966.4	3.4	3.2	128.91	74.5	108.1	166.3	160.2	6.19	26.893		
1,100.0	1,080.7	1,077.4	1,059.8	3.9	3.7	127.85	90.5	126.1	192.6	185.6	7.03	27.411		
1,200.0	1,177.6	1,173.9	1,153.2	4.4	4.2	127.04	106.5	144.1	218.9	211.0	7.88	27.782		
1,300.0	1,274.5	1,270.3	1,246.6	4.9	4.7	126.41	122.5	162.1	245.3	236.5	8.74	28.063		
1,400.0	1,371.4	1,366.8	1,339.9	5.5	5.2	125.90	138.5	180.1	271.6	262.0	9.61	28.280		
1,500.0	1,468.3	1,463.2	1,433.3	6.0	5.7	125.48	154.5	198.2	298.0	287.5	10.47	28.451		
1,600.0	1,565.2	1,559.6	1,526.7	6.5	6.2	125.13	170.5	216.2	324.4	313.1	11.35	28.590		
1,700.0	1,662.1	1,656.1	1,620.1	7.0	6.7	124.83	186.5	234.2	350.8	338.6	12.22	28.705		
1,800.0	1,759.0	1,752.5	1,713.5	7.5	7.2	124.57	202.5	252.2	377.2	364.1	13.10	28.800		
1,900.0	1,855.9	1,848.9	1,806.8	8.0	7.7	124.35	218.5	270.2	403.6	389.7	13.98	28.882		
2,000.0	1,952.8	1,945.4	1,900.2	8.5	8.2	124.15	234.6	288.2	430.1	415.2	14.85	28.951		
2,100.0	2,049.7	2,041.8	1,993.6	9.0	8.7	123.98	250.6	306.2	456.5	440.8	15.73	29.012		
2,200.0	2,146.6	2,138.2	2,087.0	9.5	9.2	123.82	266.6	324.2	482.9	466.3	16.62	29.064		
2,300.0	2,243.5	2,234.7	2,180.3	10.0	9.7	123.69	282.6	342.2	509.4	491.9	17.50	29.111		
2,400.0	2,340.4	2,331.1	2,273.7	10.5	10.2	123.56	298.6	360.2	535.8	517.4	18.38	29.152		
2,500.0	2,437.3	2,427.6	2,367.1	11.0	10.6	123.45	314.6	378.2	562.2	543.0	19.26	29.189		
2,600.0	2,534.2	2,524.0	2,460.5	11.5	11.1	123.34	330.6	396.2	588.7	568.5	20.14	29.222		
2,700.0	2,631.1	2,620.4	2,553.9	12.0	11.6	123.25	346.6	414.3	615.1	594.1	21.03	29.252		
2,800.0	2,728.0	2,716.9	2,647.2	12.6	12.1	123.16	362.6	432.3	641.5	619.6	21.91	29.279		
2,900.0	2,824.9	2,813.3	2,740.6	13.1	12.6	123.09	378.6	450.3	668.0	645.2	22.80	29.304		
3,000.0	2,921.8	2,909.7	2,834.0	13.6	13.1	123.01	394.6	468.3	694.4	670.8	23.68	29.326		
3,100.0	3,018.7	3,006.2	2,927.4	14.1	13.6	122.94	410.6	486.3	720.9	696.3	24.56	29.347		
3,200.0	3,115.6	3,102.6	3,020.8	14.6	14.1	122.88	426.6	504.3	747.3	721.9	25.45	29.366		
3,300.0	3,212.5	3,199.0	3,114.1	15.1	14.6	122.82	442.6	522.3	773.8	747.4	26.33	29.384		
3,400.0	3,309.4	3,295.5	3,207.5	15.6	15.1	122.77	458.6	540.3	800.2	773.0	27.22	29.400		
3,500.0	3,406.3	3,391.9	3,300.9	16.1	15.6	122.72	474.6	558.3	826.7	798.6	28.10	29.415		
3,600.0	3,503.2	3,488.4	3,394.3	16.6	16.1	122.67	490.6	576.3	853.1	824.1	28.99	29.429		
3,700.0	3,600.1	3,584.8	3,487.6	17.1	16.6	122.62	506.6	594.3	879.6	849.7	29.87	29.442		
3,800.0	3,697.0	3,681.2	3,581.0	17.6	17.1	122.58	522.6	612.3	906.0	875.3	30.76	29.455		
3,900.0	3,793.9	3,777.7	3,674.4	18.1	17.6	122.54	538.6	630.4	932.5	900.8	31.65	29.466		
4,000.0	3,890.8	3,874.1	3,767.8	18.7	18.1	122.50	554.6	648.4	958.9	926.4	32.53	29.477		
4,100.0	3,987.7	3,970.5	3,861.2	19.2	18.6	122.47	570.6	666.4	985.4	952.0	33.42	29.487		
4,200.0	4,084.6	4,067.0	3,954.5	19.7	19.1	122.43	586.6	684.4	1,011.8	977.5	34.30	29.497		
4,300.0	4,181.5	4,163.4	4,047.9	20.2	19.6	122.40	602.7	702.4	1,038.3	1,003.1	35.19	29.506		
4,400.0	4,278.4	4,259.8	4,141.3	20.7	20.1	122.37	618.7	720.4	1,064.7	1,028.7	36.07	29.515		
4,500.0	4,375.3	4,356.3	4,234.7	21.2	20.6	122.34	634.7	738.4	1,091.2	1,054.2	36.96	29.523		

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

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 41B-2
Project:	Garfield County, CO	TVD Reference:	KB=22' @ 8499.0usft
Reference Site:	S2-T7S-R97W (Puckett Pad)	MD Reference:	KB=22' @ 8499.0usft
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 41B-2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S2-T7S-R97W (Puckett Pad) - PUCKETT 12A-1 - DD - 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	155.42	-22.2	10.2	24.4				
100.0	100.0	100.0	100.0	0.1	0.1	155.42	-22.2	10.2	24.4	24.3	0.18	139.358	CC
138.9	138.9	138.9	138.9	0.2	0.2	172.10	-22.2	10.2	24.6	24.2	0.36	68.644	
200.0	200.0	200.0	200.0	0.3	0.3	172.18	-22.2	10.2	24.8	24.2	0.65	38.124	ES
300.0	299.9	300.0	300.0	0.6	0.5	172.15	-21.9	10.7	29.4	28.2	1.25	23.555	
400.0	399.4	399.6	399.5	0.8	0.8	166.43	-19.1	15.1	38.7	36.9	1.86	20.812	SF
500.0	498.2	498.3	497.6	1.1	1.0	158.95	-13.6	23.8	53.4	51.0	2.48	21.517	
600.0	596.1	595.4	593.6	1.5	1.3	152.41	-5.5	36.4	74.1	71.0	3.14	23.616	
700.0	693.1	690.7	686.8	2.0	1.7	147.26	4.9	52.9	100.1	96.3	3.75	26.656	
800.0	790.0	786.4	779.8	2.5	2.1	143.16	16.9	71.7	127.6	123.2	4.40	28.974	
900.0	886.9	882.2	873.0	2.9	2.5	140.50	28.9	90.5	155.6	150.5	5.11	30.426	
1,000.0	983.8	978.0	966.2	3.4	3.0	138.65	40.9	109.3	183.8	177.9	5.86	31.377	
1,100.0	1,080.7	1,073.8	1,059.4	3.9	3.4	137.30	52.8	128.2	212.1	205.5	6.62	32.021	
1,200.0	1,177.6	1,169.6	1,152.5	4.4	3.9	136.26	64.8	147.0	240.5	233.1	7.41	32.437	
1,300.0	1,274.5	1,265.4	1,245.7	4.9	4.4	135.44	76.8	165.8	268.9	260.7	8.21	32.765	
1,400.0	1,371.4	1,361.2	1,338.9	5.5	4.8	134.78	88.8	184.7	297.4	288.4	9.01	33.007	
1,500.0	1,468.3	1,457.0	1,432.0	6.0	5.3	134.24	100.8	203.5	325.9	316.1	9.82	33.195	
1,600.0	1,565.2	1,552.8	1,525.2	6.5	5.7	133.78	112.7	222.3	354.5	343.9	10.63	33.344	
1,700.0	1,662.1	1,648.6	1,618.4	7.0	6.2	133.39	124.7	241.2	383.0	371.6	11.45	33.464	
1,800.0	1,759.0	1,744.4	1,711.5	7.5	6.7	133.05	136.7	260.0	411.6	399.4	12.26	33.564	
1,900.0	1,855.9	1,840.2	1,804.7	8.0	7.1	132.76	148.7	278.8	440.2	427.1	13.08	33.647	
2,000.0	1,952.8	1,936.0	1,897.9	8.5	7.6	132.50	160.7	297.7	468.8	454.9	13.90	33.717	
2,100.0	2,049.7	2,031.8	1,991.0	9.0	8.1	132.28	172.6	316.5	497.4	482.7	14.73	33.777	
2,200.0	2,146.6	2,127.6	2,084.2	9.5	8.5	132.07	184.6	335.3	526.0	510.5	15.55	33.829	
2,300.0	2,243.5	2,223.4	2,177.4	10.0	9.0	131.89	196.6	354.2	554.6	538.3	16.37	33.874	
2,400.0	2,340.4	2,319.2	2,270.5	10.5	9.5	131.73	208.6	373.0	583.3	566.1	17.20	33.914	
2,500.0	2,437.3	2,415.0	2,363.7	11.0	10.0	131.58	220.5	391.8	611.9	593.9	18.02	33.949	
2,600.0	2,534.2	2,510.9	2,456.9	11.5	10.4	131.44	232.5	410.7	640.5	621.7	18.85	33.980	
2,700.0	2,631.1	2,606.7	2,550.0	12.0	10.9	131.32	244.5	429.5	669.1	649.5	19.68	34.008	
2,800.0	2,728.0	2,702.5	2,643.2	12.6	11.4	131.21	256.5	448.3	697.8	677.3	20.50	34.033	
2,900.0	2,824.9	2,798.3	2,736.4	13.1	11.8	131.10	268.5	467.2	726.4	705.1	21.33	34.055	
3,000.0	2,921.8	2,894.1	2,829.5	13.6	12.3	131.01	280.4	486.0	755.1	732.9	22.16	34.076	
3,100.0	3,018.7	2,989.9	2,922.7	14.1	12.8	130.92	292.4	504.8	783.7	760.7	22.99	34.094	
3,200.0	3,115.6	3,085.7	3,015.9	14.6	13.2	130.83	304.4	523.7	812.3	788.5	23.81	34.111	
3,300.0	3,212.5	3,181.5	3,109.0	15.1	13.7	130.76	316.4	542.5	841.0	816.3	24.64	34.127	
3,400.0	3,309.4	3,277.3	3,202.2	15.6	14.2	130.68	328.4	561.3	869.6	844.1	25.47	34.142	
3,500.0	3,406.3	3,373.1	3,295.4	16.1	14.6	130.62	340.3	580.2	898.3	872.0	26.30	34.155	
3,600.0	3,503.2	3,468.9	3,388.5	16.6	15.1	130.55	352.3	599.0	926.9	899.8	27.13	34.167	
3,700.0	3,600.1	3,564.7	3,481.7	17.1	15.6	130.49	364.3	617.8	955.6	927.6	27.96	34.179	
3,800.0	3,697.0	3,660.5	3,574.9	17.6	16.1	130.44	376.3	636.7	984.2	955.4	28.79	34.189	
3,900.0	3,793.9	3,756.3	3,668.1	18.1	16.5	130.38	388.3	655.5	1,012.9	983.2	29.62	34.199	
4,000.0	3,890.8	3,852.1	3,761.2	18.7	17.0	130.33	400.2	674.3	1,041.5	1,011.1	30.45	34.209	
4,100.0	3,987.7	3,947.9	3,854.4	19.2	17.5	130.29	412.2	693.2	1,070.2	1,038.9	31.28	34.217	
4,200.0	4,084.6	4,043.7	3,947.6	19.7	17.9	130.24	424.2	712.0	1,098.8	1,066.7	32.10	34.226	

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 41B-2
Project:	Garfield County, CO	TVD Reference:	KB=22' @ 8499.0usft
Reference Site:	S2-T7S-R97W (Puckett Pad)	MD Reference:	KB=22' @ 8499.0usft
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 41B-2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S2-T7S-R97W (Puckett Pad) - PUCKETT 12B-1 - DD - 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		
0.0	0.0	0.0	0.0	0.0	0.0	155.79	-29.5	13.3	32.3					
100.0	100.0	100.0	100.0	0.1	0.1	155.79	-29.5	13.3	32.3	32.2	0.18	184.515	CC	
138.9	138.9	138.9	138.9	0.2	0.2	172.45	-29.5	13.3	32.5	32.1	0.36	90.744		
200.0	200.0	200.0	200.0	0.3	0.3	172.50	-29.5	13.3	32.8	32.1	0.65	50.268	ES	
300.0	299.9	299.9	299.9	0.6	0.5	173.43	-29.5	13.3	37.4	36.2	1.25	29.869		
400.0	399.4	399.0	398.9	0.8	0.8	171.69	-28.9	15.7	47.7	45.8	1.87	25.473	SF	
500.0	498.2	496.9	496.5	1.1	1.0	166.78	-26.9	23.1	64.2	61.7	2.50	25.706		
600.0	596.1	592.7	591.6	1.5	1.2	161.58	-23.8	34.9	87.5	84.4	3.14	27.836		
700.0	693.1	686.7	684.1	2.0	1.6	157.13	-19.6	51.0	116.9	113.2	3.70	31.599		
800.0	790.0	780.9	776.3	2.5	1.9	153.73	-14.8	69.3	147.9	143.7	4.25	34.836		
900.0	886.9	875.7	869.2	2.9	2.3	151.48	-9.9	87.8	179.3	174.5	4.84	37.034		
1,000.0	983.8	970.4	962.0	3.4	2.7	149.91	-5.1	106.2	210.9	205.4	5.47	38.542		
1,100.0	1,080.7	1,065.2	1,054.8	3.9	3.1	148.74	-0.2	124.6	242.5	236.4	6.12	39.612		
1,200.0	1,177.6	1,159.9	1,147.6	4.4	3.5	147.85	4.6	143.0	274.2	267.4	6.79	40.377		
1,300.0	1,274.5	1,254.7	1,240.4	4.9	3.9	147.14	9.5	161.5	306.0	298.5	7.47	40.972		
1,400.0	1,371.4	1,349.4	1,333.3	5.5	4.3	146.56	14.3	179.9	337.8	329.7	8.15	41.428		
1,500.0	1,468.3	1,444.2	1,426.1	6.0	4.7	146.08	19.2	198.3	369.7	360.8	8.85	41.789		
1,600.0	1,565.2	1,538.9	1,518.9	6.5	5.1	145.68	24.0	216.8	401.5	392.0	9.54	42.081		
1,700.0	1,662.1	1,633.7	1,611.7	7.0	5.5	145.34	28.8	235.2	433.4	423.1	10.24	42.322		
1,800.0	1,759.0	1,728.5	1,704.5	7.5	6.0	145.04	33.7	253.6	465.3	454.3	10.94	42.524		
1,900.0	1,855.9	1,823.2	1,797.4	8.0	6.4	144.79	38.5	272.1	497.2	485.5	11.64	42.696		
2,000.0	1,952.8	1,918.0	1,890.2	8.5	6.8	144.56	43.4	290.5	529.1	516.7	12.35	42.844		
2,100.0	2,049.7	2,012.7	1,983.0	9.0	7.2	144.36	48.2	308.9	561.0	547.9	13.05	42.974		
2,200.0	2,146.6	2,107.5	2,075.8	9.5	7.6	144.18	53.1	327.3	592.9	579.1	13.76	43.089		
2,300.0	2,243.5	2,202.2	2,168.6	10.0	8.0	144.02	57.9	345.8	624.8	610.3	14.47	43.191		
2,400.0	2,340.4	2,297.0	2,261.5	10.5	8.4	143.87	62.8	364.2	656.7	641.5	15.18	43.264		
2,500.0	2,437.3	2,391.7	2,354.3	11.0	8.9	143.74	67.6	382.6	688.6	672.7	15.90	43.324		
2,600.0	2,534.2	2,486.5	2,447.1	11.5	9.3	143.62	72.5	401.1	720.6	704.0	16.61	43.376		
2,700.0	2,631.1	2,581.3	2,539.9	12.0	9.7	143.51	77.3	419.5	752.5	735.2	17.33	43.422		
2,800.0	2,728.0	2,676.0	2,632.7	12.6	10.1	143.41	82.1	437.9	784.4	766.4	18.05	43.464		
2,900.0	2,824.9	2,770.8	2,725.6	13.1	10.5	143.31	87.0	456.4	816.4	797.6	18.77	43.501		
3,000.0	2,921.8	2,865.5	2,818.4	13.6	10.9	143.23	91.8	474.8	848.3	828.8	19.49	43.534		
3,100.0	3,018.7	2,960.3	2,911.2	14.1	11.3	143.15	96.7	493.2	880.2	860.0	20.21	43.564		
3,200.0	3,115.6	3,055.0	3,004.0	14.6	11.8	143.07	101.5	511.7	912.2	891.3	20.93	43.592		
3,300.0	3,212.5	3,149.8	3,096.8	15.1	12.2	143.00	106.4	530.1	944.1	922.5	21.65	43.617		
3,400.0	3,309.4	3,244.5	3,189.7	15.6	12.6	142.94	111.2	548.5	976.1	953.7	22.37	43.640		
3,500.0	3,406.3	3,339.3	3,282.5	16.1	13.0	142.88	116.1	566.9	1,008.0	984.9	23.09	43.661		
3,600.0	3,503.2	3,434.1	3,375.3	16.6	13.4	142.82	120.9	585.4	1,039.9	1,016.1	23.81	43.680		
3,700.0	3,600.1	3,528.8	3,468.1	17.1	13.8	142.77	125.8	603.8	1,071.9	1,047.4	24.53	43.698		
3,800.0	3,697.0	3,623.6	3,560.9	17.6	14.3	142.72	130.6	622.2	1,103.8	1,078.6	25.25	43.714		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 41B-2
Project:	Garfield County, CO	TVD Reference:	KB=22' @ 8499.0usft
Reference Site:	S2-T7S-R97W (Puckett Pad)	MD Reference:	KB=22' @ 8499.0usft
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 41B-2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S2-T7S-R97W (Puckett Pad) - PUCKETT 12C-1 - DD - 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		
0.0	0.0	0.0	0.0	0.0	0.0	154.70	-36.4	17.2	40.3					
100.0	100.0	100.0	100.0	0.1	0.1	154.70	-36.4	17.2	40.3	40.1	0.18	229.802 CC		
138.9	138.9	138.9	138.9	0.2	0.2	171.35	-36.4	17.2	40.4	40.1	0.36	112.921		
200.0	200.0	200.0	200.0	0.3	0.3	171.41	-36.4	17.2	40.7	40.1	0.65	62.462 ES		
300.0	299.9	299.9	299.9	0.6	0.5	172.28	-36.4	17.2	45.4	44.1	1.25	36.217		
400.0	399.4	398.8	398.8	0.8	0.8	173.03	-36.4	17.8	55.5	53.6	1.88	29.579		
500.0	498.2	495.8	495.7	1.1	1.0	170.80	-36.6	22.8	72.7	70.2	2.50	29.069 SF		
600.0	596.1	590.5	589.9	1.5	1.2	167.34	-36.8	32.3	97.4	94.2	3.14	30.995		
700.0	693.1	682.4	680.7	2.0	1.5	164.00	-37.2	46.1	128.7	125.0	3.66	35.156		
800.0	790.0	774.3	770.9	2.5	1.8	160.86	-37.7	63.5	162.9	158.7	4.16	39.190		
900.0	886.9	867.8	862.6	2.9	2.1	158.64	-38.2	81.8	197.7	193.0	4.68	42.204		
1,000.0	983.8	961.3	954.3	3.4	2.5	157.08	-38.7	100.1	232.7	227.5	5.24	44.369		
1,100.0	1,080.7	1,054.8	1,046.0	3.9	2.9	155.93	-39.2	118.4	267.8	262.0	5.83	45.953		
1,200.0	1,177.6	1,148.3	1,137.7	4.4	3.3	155.04	-39.7	136.7	303.0	296.6	6.43	47.150		
1,300.0	1,274.5	1,241.9	1,229.5	4.9	3.7	154.34	-40.2	155.0	338.2	331.2	7.04	48.034		
1,400.0	1,371.4	1,335.4	1,321.2	5.5	4.1	153.77	-40.7	173.3	373.5	365.8	7.66	48.751		
1,500.0	1,468.3	1,428.9	1,412.9	6.0	4.5	153.30	-41.2	191.6	408.8	400.5	8.29	49.323		
1,600.0	1,565.2	1,522.4	1,504.6	6.5	4.9	152.91	-41.7	209.9	444.1	435.2	8.92	49.789		
1,700.0	1,662.1	1,615.9	1,596.3	7.0	5.3	152.57	-42.2	228.2	479.4	469.9	9.56	50.176		
1,800.0	1,759.0	1,709.4	1,688.0	7.5	5.7	152.28	-42.7	246.5	514.8	504.6	10.19	50.502		
1,900.0	1,855.9	1,803.0	1,779.7	8.0	6.1	152.03	-43.2	264.8	550.1	539.3	10.83	50.780		
2,000.0	1,952.8	1,896.5	1,871.4	8.5	6.5	151.80	-43.7	283.1	585.5	574.0	11.48	51.021		
2,100.0	2,049.7	1,990.0	1,963.1	9.0	6.9	151.61	-44.2	301.4	620.9	608.7	12.12	51.232		
2,200.0	2,146.6	2,083.5	2,054.8	9.5	7.3	151.43	-44.7	319.7	656.2	643.5	12.76	51.418		
2,300.0	2,243.5	2,177.0	2,146.5	10.0	7.7	151.27	-45.2	338.0	691.6	678.2	13.41	51.584		
2,400.0	2,340.4	2,270.5	2,238.2	10.5	8.1	151.13	-45.7	356.3	727.0	713.0	14.05	51.734		
2,500.0	2,437.3	2,364.1	2,329.9	11.0	8.5	151.00	-46.2	374.6	762.4	747.7	14.70	51.870		
2,600.0	2,534.2	2,457.6	2,421.7	11.5	8.9	150.88	-46.7	392.9	797.8	782.4	15.34	51.994		
2,700.0	2,631.1	2,551.1	2,513.4	12.0	9.3	150.77	-47.2	411.2	833.2	817.2	15.99	52.108		
2,800.0	2,728.0	2,644.6	2,605.1	12.6	9.7	150.67	-47.7	429.5	868.6	851.9	16.63	52.214		
2,900.0	2,824.9	2,738.1	2,696.8	13.1	10.1	150.58	-48.2	447.8	904.0	886.7	17.28	52.312		
3,000.0	2,921.8	2,831.6	2,788.5	13.6	10.5	150.50	-48.7	466.1	939.4	921.4	17.93	52.405		
3,100.0	3,018.7	2,925.2	2,880.2	14.1	10.9	150.42	-49.2	484.4	974.8	956.2	18.57	52.491		
3,200.0	3,115.6	3,018.7	2,971.9	14.6	11.3	150.35	-49.7	502.7	1,010.2	991.0	19.21	52.573		
3,300.0	3,212.5	3,112.2	3,063.6	15.1	11.7	150.28	-50.2	520.9	1,045.6	1,025.7	19.86	52.651		
3,400.0	3,309.4	3,205.7	3,155.3	15.6	12.1	150.21	-50.7	539.2	1,081.0	1,060.5	20.50	52.725		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 41B-2
Project:	Garfield County, CO	TVD Reference:	KB=22' @ 8499.0usft
Reference Site:	S2-T7S-R97W (Puckett Pad)	MD Reference:	KB=22' @ 8499.0usft
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 41B-2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S2-T7S-R97W (Puckett Pad) - PUCKETT 12D-1 - DD - 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	155.06	-43.7	20.3	48.2					
100.0	100.0	100.0	100.0	0.1	0.1	155.06	-43.7	20.3	48.2	48.0	0.18	274.942	CC	
138.9	138.9	138.9	138.9	0.2	0.2	171.71	-43.7	20.3	48.4	48.0	0.36	135.013		
200.0	200.0	200.0	200.0	0.3	0.3	171.75	-43.7	20.3	48.6	48.0	0.65	74.602	ES	
300.0	299.9	299.9	299.9	0.6	0.5	172.46	-43.7	20.3	53.3	52.0	1.25	42.533		
400.0	399.4	397.2	397.1	0.8	0.7	171.92	-44.5	22.7	64.8	63.0	1.87	34.580		
500.0	498.2	492.5	492.1	1.1	1.0	169.57	-46.7	29.5	85.0	82.4	2.52	33.760	SF	
600.0	596.1	584.7	583.6	1.5	1.2	166.88	-50.3	40.4	113.6	110.4	3.17	35.829		
700.0	693.1	673.3	670.9	2.0	1.5	164.57	-55.1	54.9	149.6	145.9	3.69	40.506		
800.0	790.0	765.4	761.2	2.5	1.8	162.70	-60.7	72.0	187.9	183.7	4.17	45.095		
900.0	886.9	857.6	851.7	2.9	2.2	161.46	-66.4	89.1	226.2	221.5	4.66	48.578		
1,000.0	983.8	949.9	942.2	3.4	2.6	160.58	-72.0	106.3	264.6	259.4	5.17	51.140		
1,100.0	1,080.7	1,042.1	1,032.6	3.9	3.0	159.92	-77.7	123.4	303.1	297.4	5.71	53.067		
1,200.0	1,177.6	1,134.4	1,123.1	4.4	3.4	159.41	-83.4	140.6	341.6	335.3	6.26	54.529		
1,300.0	1,274.5	1,226.7	1,213.6	4.9	3.8	159.00	-89.0	157.7	380.1	373.2	6.83	55.670		
1,400.0	1,371.4	1,318.9	1,304.1	5.5	4.1	158.67	-94.7	174.9	418.6	411.2	7.40	56.597		
1,500.0	1,468.3	1,411.2	1,394.5	6.0	4.5	158.40	-100.3	192.0	457.1	449.1	7.97	57.345		
1,600.0	1,565.2	1,503.4	1,485.0	6.5	4.9	158.16	-106.0	209.2	495.6	487.1	8.55	57.962		
1,700.0	1,662.1	1,595.7	1,575.5	7.0	5.3	157.96	-111.6	226.3	534.2	525.0	9.13	58.478		
1,800.0	1,759.0	1,688.0	1,666.0	7.5	5.7	157.79	-117.3	243.5	572.7	563.0	9.72	58.916		
1,900.0	1,855.9	1,780.2	1,756.4	8.0	6.1	157.64	-122.9	260.6	611.3	601.0	10.31	59.293		
2,000.0	1,952.8	1,872.5	1,846.9	8.5	6.5	157.51	-128.6	277.8	649.8	638.9	10.90	59.621		
2,100.0	2,049.7	1,964.8	1,937.4	9.0	6.9	157.39	-134.2	294.9	688.4	676.9	11.49	59.910		
2,200.0	2,146.6	2,057.0	2,027.9	9.5	7.3	157.28	-139.9	312.1	726.9	714.8	12.08	60.166		
2,300.0	2,243.5	2,149.3	2,118.4	10.0	7.7	157.19	-145.6	329.2	765.5	752.8	12.67	60.395		
2,400.0	2,340.4	2,241.5	2,208.8	10.5	8.1	157.10	-151.2	346.4	804.0	790.8	13.27	60.601		
2,500.0	2,437.3	2,333.8	2,299.3	11.0	8.5	157.02	-156.9	363.5	842.6	828.7	13.86	60.789		
2,600.0	2,534.2	2,426.1	2,389.8	11.5	8.9	156.95	-162.5	380.7	881.2	866.7	14.45	60.961		
2,700.0	2,631.1	2,518.3	2,480.3	12.0	9.3	156.89	-168.2	397.8	919.7	904.7	15.05	61.119		
2,800.0	2,728.0	2,610.6	2,570.7	12.6	9.7	156.83	-173.8	415.0	958.3	942.6	15.64	61.266		
2,900.0	2,824.9	2,702.8	2,661.2	13.1	10.1	156.77	-179.5	432.1	996.8	980.6	16.23	61.403		
3,000.0	2,921.8	2,795.1	2,751.7	13.6	10.5	156.72	-185.1	449.3	1,035.4	1,018.6	16.83	61.531		
3,100.0	3,018.7	2,887.4	2,842.2	14.1	10.9	156.67	-190.8	466.4	1,074.0	1,056.6	17.42	61.652		
3,200.0	3,115.6	2,979.6	2,932.6	14.6	11.3	156.63	-196.4	483.6	1,112.5	1,094.5	18.01	61.766		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 41B-2
Project:	Garfield County, CO	TVD Reference:	KB=22' @ 8499.0usft
Reference Site:	S2-T7S-R97W (Puckett Pad)	MD Reference:	KB=22' @ 8499.0usft
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 41B-2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S2-T7S-R97W (Puckett Pad) - PUCKETT 13A-1 - DD - 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		
0.0	0.0	0.0	0.0	0.0	0.0	155.63	-51.7	23.4	56.8					
100.0	100.0	100.0	100.0	0.1	0.1	155.63	-51.7	23.4	56.8	56.6	0.18	323.871 CC		
138.9	138.9	138.9	138.9	0.2	0.2	172.27	-51.7	23.4	56.9	56.6	0.36	158.954		
200.0	200.0	200.0	200.0	0.3	0.3	172.31	-51.7	23.4	57.2	56.5	0.65	87.755 ES		
300.0	299.9	298.6	298.6	0.6	0.5	172.50	-52.0	24.0	62.4	61.1	1.25	49.900		
400.0	399.4	394.9	394.8	0.8	0.7	171.04	-54.2	28.3	76.1	74.3	1.88	40.492		
500.0	498.2	488.8	488.2	1.1	1.0	168.80	-58.4	36.7	98.9	96.4	2.54	39.010 SF		
600.0	596.1	579.1	577.5	1.5	1.2	166.61	-64.5	48.7	130.6	127.4	3.20	40.824		
700.0	693.1	665.7	662.4	2.0	1.6	164.87	-72.0	63.7	169.8	166.1	3.73	45.539		
800.0	790.0	756.2	750.8	2.5	1.9	163.49	-80.8	81.1	211.1	207.0	4.19	50.370		
900.0	886.9	847.2	839.6	2.9	2.3	162.56	-89.6	98.7	252.6	247.9	4.67	54.058		
1,000.0	983.8	938.1	928.4	3.4	2.8	161.89	-98.5	116.2	294.0	288.9	5.18	56.787		
1,100.0	1,080.7	1,029.1	1,017.2	3.9	3.2	161.38	-107.3	133.7	335.5	329.8	5.70	58.875		
1,200.0	1,177.6	1,120.0	1,106.0	4.4	3.6	160.99	-116.2	151.3	377.1	370.8	6.24	60.413		
1,300.0	1,274.5	1,211.0	1,194.8	4.9	4.0	160.68	-125.0	168.8	418.6	411.8	6.79	61.659		
1,400.0	1,371.4	1,301.9	1,283.6	5.5	4.4	160.42	-133.8	186.4	460.1	452.8	7.34	62.656		
1,500.0	1,468.3	1,392.9	1,372.4	6.0	4.9	160.20	-142.7	203.9	501.6	493.7	7.90	63.464		
1,600.0	1,565.2	1,483.8	1,461.3	6.5	5.3	160.02	-151.5	221.4	543.2	534.7	8.47	64.133		
1,700.0	1,662.1	1,574.8	1,550.1	7.0	5.7	159.86	-160.4	239.0	584.7	575.7	9.04	64.694		
1,800.0	1,759.0	1,665.7	1,638.9	7.5	6.1	159.73	-169.2	256.5	626.3	616.7	9.61	65.172		
1,900.0	1,855.9	1,756.7	1,727.7	8.0	6.6	159.61	-178.0	274.1	667.8	657.7	10.18	65.583		
2,000.0	1,952.8	1,847.6	1,816.5	8.5	7.0	159.50	-186.9	291.6	709.4	698.6	10.76	65.940		
2,100.0	2,049.7	1,938.6	1,905.3	9.0	7.4	159.41	-195.7	309.1	751.0	739.6	11.33	66.255		
2,200.0	2,146.6	2,029.5	1,994.1	9.5	7.8	159.33	-204.6	326.7	792.5	780.6	11.91	66.534		
2,300.0	2,243.5	2,120.5	2,082.9	10.0	8.3	159.25	-213.4	344.2	834.1	821.6	12.49	66.784		
2,400.0	2,340.4	2,211.4	2,171.7	10.5	8.7	159.18	-222.2	361.7	875.6	862.6	13.07	67.009		
2,500.0	2,437.3	2,302.4	2,260.5	11.0	9.1	159.12	-231.1	379.3	917.2	903.5	13.65	67.214		
2,600.0	2,534.2	2,393.3	2,349.3	11.5	9.6	159.06	-239.9	396.8	958.8	944.5	14.22	67.403		
2,700.0	2,631.1	2,484.3	2,438.1	12.0	10.0	159.01	-248.8	414.4	1,000.3	985.5	14.80	67.576		
2,800.0	2,728.0	2,575.2	2,526.9	12.6	10.4	158.96	-257.6	431.9	1,041.9	1,026.5	15.38	67.737		
2,900.0	2,824.9	2,666.2	2,615.7	13.1	10.8	158.92	-266.4	449.4	1,083.4	1,067.5	15.96	67.887		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 41B-2
Project:	Garfield County, CO	TVD Reference:	KB=22' @ 8499.0usft
Reference Site:	S2-T7S-R97W (Puckett Pad)	MD Reference:	KB=22' @ 8499.0usft
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 41B-2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S2-T7S-R97W (Puckett Pad) - PUCKETT 13B-1 - DD - 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	155.65	-58.6	26.5	64.4				
100.0	100.0	100.0	100.0	0.1	0.1	155.65	-58.6	26.5	64.4	64.2	0.18	367.135	CC
138.9	138.9	138.9	138.9	0.2	0.2	172.30	-58.6	26.5	64.5	64.2	0.36	180.129	
200.0	200.0	200.0	200.0	0.3	0.3	172.32	-58.6	26.5	64.8	64.1	0.65	99.393	ES
300.0	299.9	296.9	296.9	0.6	0.5	171.65	-59.9	28.6	71.5	70.3	1.25	57.217	
400.0	399.4	392.3	391.9	0.8	0.7	169.79	-63.6	34.8	87.6	85.7	1.90	46.086	
500.0	498.2	484.8	483.7	1.1	1.0	167.68	-69.5	44.7	112.9	110.3	2.57	43.997	SF
600.0	596.1	573.5	571.1	1.5	1.3	165.81	-77.3	57.8	147.1	143.8	3.23	45.523	
700.0	693.1	657.8	653.4	2.0	1.7	164.41	-86.6	73.4	188.8	185.0	3.76	50.261	
800.0	790.0	743.7	736.5	2.5	2.1	163.20	-97.7	92.0	233.8	229.5	4.24	55.166	
900.0	886.9	832.7	822.6	2.9	2.5	162.30	-109.3	111.6	279.1	274.4	4.72	59.194	
1,000.0	983.8	921.7	908.7	3.4	3.0	161.65	-121.0	131.1	324.6	319.3	5.22	62.174	
1,100.0	1,080.7	1,010.8	994.8	3.9	3.5	161.16	-132.6	150.6	370.0	364.3	5.74	64.437	
1,200.0	1,177.6	1,099.8	1,080.8	4.4	3.9	160.78	-144.3	170.2	415.5	409.2	6.28	66.130	
1,300.0	1,274.5	1,188.8	1,166.9	4.9	4.4	160.48	-155.9	189.7	461.0	454.1	6.83	67.470	
1,400.0	1,371.4	1,277.9	1,253.0	5.5	4.9	160.23	-167.6	209.3	506.5	499.1	7.39	68.553	
1,500.0	1,468.3	1,366.9	1,339.1	6.0	5.4	160.02	-179.2	228.8	551.9	544.0	7.95	69.430	
1,600.0	1,565.2	1,456.0	1,425.2	6.5	5.9	159.84	-190.9	248.3	597.4	588.9	8.52	70.155	
1,700.0	1,662.1	1,545.0	1,511.2	7.0	6.3	159.69	-202.5	267.9	643.0	633.9	9.09	70.761	
1,800.0	1,759.0	1,634.0	1,597.3	7.5	6.8	159.55	-214.1	287.4	688.5	678.8	9.66	71.275	
1,900.0	1,855.9	1,723.1	1,683.4	8.0	7.3	159.44	-225.8	307.0	734.0	723.7	10.23	71.716	
2,000.0	1,952.8	1,812.1	1,769.5	8.5	7.8	159.34	-237.4	326.5	779.5	768.7	10.81	72.100	
2,100.0	2,049.7	1,901.1	1,855.6	9.0	8.3	159.24	-249.1	346.0	825.0	813.6	11.39	72.436	
2,200.0	2,146.6	1,990.2	1,941.6	9.5	8.8	159.16	-260.7	365.6	870.5	858.5	11.97	72.734	
2,300.0	2,243.5	2,079.2	2,027.7	10.0	9.2	159.09	-272.4	385.1	916.0	903.5	12.55	73.001	
2,400.0	2,340.4	2,168.2	2,113.8	10.5	9.7	159.02	-284.0	404.7	961.5	948.4	13.13	73.242	
2,500.0	2,437.3	2,257.3	2,199.9	11.0	10.2	158.96	-295.7	424.2	1,007.1	993.3	13.71	73.461	
2,600.0	2,534.2	2,346.3	2,286.0	11.5	10.7	158.91	-307.3	443.8	1,052.6	1,038.3	14.29	73.661	
2,700.0	2,631.1	2,435.3	2,372.0	12.0	11.2	158.86	-319.0	463.3	1,098.1	1,083.2	14.87	73.846	

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 41B-2
Project:	Garfield County, CO	TVD Reference:	KB=22' @ 8499.0usft
Reference Site:	S2-T7S-R97W (Puckett Pad)	MD Reference:	KB=22' @ 8499.0usft
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 41B-2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S2-T7S-R97W (Puckett Pad) - PUCKETT 13C-1 - DD - 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		
0.0	0.0	0.0	0.0	0.0	0.0	163.91	-62.6	18.1	65.2					
100.0	100.0	100.0	100.0	0.1	0.1	163.91	-62.6	18.1	65.2	65.0	0.18	371.900	CC	
143.2	143.2	143.2	143.2	0.2	0.2	-179.47	-62.6	18.1	65.4	65.0	0.38	172.606	ES	
200.0	200.0	199.3	199.3	0.3	0.3	-179.54	-62.7	18.2	65.8	65.1	0.65	101.466		
300.0	299.9	296.0	296.0	0.6	0.5	178.79	-65.1	21.0	73.6	72.4	1.26	58.654		
400.0	399.4	390.9	390.5	0.8	0.7	175.97	-70.4	27.5	91.0	89.1	1.92	47.319		
500.0	498.2	482.7	481.4	1.1	1.0	173.18	-78.3	37.2	117.8	115.2	2.60	45.316	SF	
600.0	596.1	570.3	567.5	1.5	1.4	170.89	-88.4	49.6	153.7	150.5	3.27	47.034		
700.0	693.1	653.3	648.3	2.0	1.7	169.22	-100.3	64.2	197.3	193.5	3.79	52.065		
800.0	790.0	739.7	731.9	2.5	2.2	167.88	-114.4	81.4	243.8	239.6	4.25	57.373		
900.0	886.9	828.1	817.2	2.9	2.6	166.93	-128.8	99.1	290.5	285.8	4.71	61.681		
1,000.0	983.8	916.4	902.6	3.4	3.1	166.25	-143.2	116.7	337.2	332.0	5.19	64.933		
1,100.0	1,080.7	1,004.8	987.9	3.9	3.6	165.73	-157.6	134.4	384.0	378.3	5.70	67.423		
1,200.0	1,177.6	1,093.1	1,073.3	4.4	4.0	165.32	-172.0	152.0	430.8	424.6	6.21	69.335		
1,300.0	1,274.5	1,181.5	1,158.6	4.9	4.5	165.00	-186.4	169.7	477.6	470.8	6.74	70.885		
1,400.0	1,371.4	1,269.8	1,244.0	5.5	5.0	164.73	-200.8	187.3	524.4	517.1	7.27	72.136		
1,500.0	1,468.3	1,358.2	1,329.4	6.0	5.5	164.51	-215.3	205.0	571.2	563.4	7.81	73.162		
1,600.0	1,565.2	1,446.5	1,414.7	6.5	6.0	164.32	-229.7	222.6	618.0	609.7	8.35	74.015		
1,700.0	1,662.1	1,534.9	1,500.1	7.0	6.4	164.15	-244.1	240.3	664.8	655.9	8.90	74.734		
1,800.0	1,759.0	1,623.2	1,585.4	7.5	6.9	164.01	-258.5	257.9	711.7	702.2	9.45	75.348		
1,900.0	1,855.9	1,711.6	1,670.8	8.0	7.4	163.89	-272.9	275.6	758.5	748.5	10.00	75.878		
2,000.0	1,952.8	1,799.9	1,756.1	8.5	7.9	163.78	-287.3	293.2	805.3	794.8	10.55	76.340		
2,100.0	2,049.7	1,888.2	1,841.5	9.0	8.4	163.68	-301.7	310.9	852.2	841.1	11.10	76.747		
2,200.0	2,146.6	1,976.6	1,926.8	9.5	8.9	163.59	-316.2	328.5	899.0	887.3	11.66	77.110		
2,300.0	2,243.5	2,064.9	2,012.2	10.0	9.4	163.51	-330.6	346.2	945.8	933.6	12.21	77.435		
2,400.0	2,340.4	2,153.3	2,097.6	10.5	9.8	163.44	-345.0	363.8	992.7	979.9	12.77	77.729		
2,500.0	2,437.3	2,241.6	2,182.9	11.0	10.3	163.38	-359.4	381.5	1,039.5	1,026.2	13.33	77.996		
2,600.0	2,534.2	2,330.0	2,268.3	11.5	10.8	163.32	-373.8	399.1	1,086.3	1,072.5	13.88	78.242		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 41B-2
Project:	Garfield County, CO	TVD Reference:	KB=22' @ 8499.0usft
Reference Site:	S2-T7S-R97W (Puckett Pad)	MD Reference:	KB=22' @ 8499.0usft
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 41B-2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S2-T7S-R97W (Puckett Pad) - PUCKETT 41A-2 - DD - 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		
0.0	0.0	0.0	0.0	0.0	0.0	151.52	-7.3	4.0	8.3					
100.0	100.0	100.0	100.0	0.1	0.1	151.52	-7.3	4.0	8.3	8.1	0.18	47.272 CC		
138.9	138.9	138.9	138.9	0.2	0.2	168.36	-7.3	4.0	8.4	8.1	0.36	23.573		
200.0	200.0	200.0	200.0	0.3	0.3	168.71	-7.3	4.0	8.7	8.0	0.65	13.357 ES		
300.0	299.9	300.3	300.2	0.6	0.5	163.60	-4.8	4.9	11.6	10.4	1.23	9.400		
400.0	399.4	400.5	400.1	0.8	0.8	151.54	2.6	7.5	16.8	15.0	1.81	9.273		
500.0	498.2	501.2	500.1	1.1	1.1	144.15	14.8	9.8	23.3	20.9	2.40	9.704		
600.0	596.1	602.3	599.8	1.5	1.4	142.08	31.6	9.3	29.3	26.3	3.06	9.571		
700.0	693.1	703.8	698.9	2.0	1.8	141.44	53.0	6.2	33.8	30.1	3.72	9.087		
800.0	790.0	805.4	796.9	2.5	2.3	137.52	78.9	0.3	33.8	29.3	4.46	7.585		
900.0	886.9	905.6	892.6	2.9	2.8	130.02	107.6	-7.4	30.9	25.5	5.39	5.737		
1,000.0	983.8	1,005.4	988.0	3.4	3.4	121.01	136.2	-15.2	28.5	22.0	6.48	4.399		
1,100.0	1,080.7	1,105.3	1,083.3	3.9	3.9	110.67	164.8	-22.9	27.0	19.3	7.70	3.501		
1,200.0	1,177.6	1,205.2	1,178.7	4.4	4.5	99.48	193.5	-30.6	26.4	17.5	8.93	2.954		
1,206.9	1,184.3	1,212.1	1,185.3	4.5	4.6	98.70	195.5	-31.1	26.4	17.4	9.00	2.931		
1,300.0	1,274.5	1,305.0	1,274.1	4.9	5.1	88.24	222.1	-38.3	26.8	16.8	10.04	2.672		
1,400.0	1,371.4	1,404.9	1,369.4	5.5	5.7	77.75	250.8	-46.1	28.3	17.3	10.95	2.580 SF		
1,500.0	1,468.3	1,504.8	1,464.8	6.0	6.3	68.53	279.4	-53.8	30.5	18.9	11.67	2.616		
1,600.0	1,565.2	1,604.6	1,560.1	6.5	6.8	60.76	308.0	-61.5	33.5	21.2	12.24	2.735		
1,700.0	1,662.1	1,704.5	1,655.5	7.0	7.4	54.34	336.7	-69.2	36.9	24.2	12.72	2.902		
1,800.0	1,759.0	1,804.3	1,750.8	7.5	8.0	49.07	365.3	-76.9	40.8	27.6	13.17	3.095		
1,900.0	1,855.9	1,904.2	1,846.2	8.0	8.6	44.74	393.9	-84.7	44.9	31.3	13.60	3.300		
2,000.0	1,952.8	2,004.1	1,941.5	8.5	9.2	41.15	422.6	-92.4	49.2	35.2	14.04	3.505		
2,100.0	2,049.7	2,103.9	2,036.9	9.0	9.8	38.15	451.2	-100.1	53.7	39.2	14.49	3.707		
2,200.0	2,146.6	2,203.8	2,132.3	9.5	10.4	35.62	479.8	-107.8	58.3	43.4	14.95	3.901		
2,300.0	2,243.5	2,303.7	2,227.6	10.0	11.0	33.46	508.5	-115.6	63.0	47.6	15.43	4.087		
2,400.0	2,340.4	2,403.5	2,323.0	10.5	11.6	31.61	537.1	-123.3	67.8	51.9	15.92	4.262		
2,500.0	2,437.3	2,503.4	2,418.3	11.0	12.2	30.00	565.8	-131.0	72.7	56.3	16.42	4.428		
2,600.0	2,534.2	2,603.2	2,513.7	11.5	12.8	28.60	594.4	-138.7	77.6	60.7	16.93	4.584		
2,700.0	2,631.1	2,703.1	2,609.0	12.0	13.3	27.36	623.0	-146.5	82.5	65.1	17.45	4.730		
2,800.0	2,728.0	2,803.0	2,704.4	12.6	13.9	26.26	651.7	-154.2	87.5	69.5	17.98	4.868		
2,900.0	2,824.9	2,902.8	2,799.8	13.1	14.5	25.28	680.3	-161.9	92.5	74.0	18.52	4.997		
3,000.0	2,921.8	3,002.7	2,895.1	13.6	15.1	24.41	708.9	-169.6	97.6	78.5	19.06	5.118		
3,100.0	3,018.7	3,102.6	2,990.5	14.1	15.7	23.61	737.6	-177.4	102.6	83.0	19.61	5.233		
3,200.0	3,115.6	3,202.4	3,085.8	14.6	16.3	22.90	766.2	-185.1	107.7	87.5	20.17	5.340		
3,300.0	3,212.5	3,302.3	3,181.2	15.1	16.9	22.24	794.8	-192.8	112.8	92.1	20.72	5.442		
3,400.0	3,309.4	3,402.1	3,276.5	15.6	17.5	21.65	823.5	-200.5	117.9	96.6	21.29	5.537		
3,500.0	3,406.3	3,502.0	3,371.9	16.1	18.1	21.10	852.1	-208.3	123.0	101.1	21.85	5.628		
3,600.0	3,503.2	3,601.9	3,467.2	16.6	18.7	20.60	880.8	-216.0	128.1	105.7	22.42	5.713		
3,700.0	3,600.1	3,701.7	3,562.6	17.1	19.3	20.13	909.4	-223.7	133.2	110.2	23.00	5.794		
3,800.0	3,697.0	3,801.6	3,658.0	17.6	19.9	19.70	938.0	-231.4	138.4	114.8	23.57	5.871		
3,900.0	3,793.9	3,901.5	3,753.3	18.1	20.5	19.30	966.7	-239.2	143.5	119.4	24.15	5.944		
4,000.0	3,890.8	4,001.3	3,848.7	18.7	21.1	18.93	995.3	-246.9	148.7	124.0	24.73	6.013		
4,100.0	3,987.7	4,101.2	3,944.0	19.2	21.7	18.59	1,023.9	-254.6	153.8	128.5	25.31	6.079		
4,200.0	4,084.6	4,201.0	4,039.4	19.7	22.2	18.26	1,052.6	-262.3	159.0	133.1	25.89	6.142		
4,300.0	4,181.5	4,300.9	4,134.7	20.2	22.8	17.96	1,081.2	-270.0	164.2	137.7	26.47	6.201		
4,400.0	4,278.4	4,400.8	4,230.1	20.7	23.4	17.67	1,109.9	-277.8	169.3	142.3	27.06	6.258		
4,500.0	4,375.3	4,500.6	4,325.5	21.2	24.0	17.40	1,138.5	-285.5	174.5	146.9	27.64	6.313		
4,600.0	4,472.2	4,600.5	4,420.8	21.7	24.6	17.15	1,167.1	-293.2	179.7	151.5	28.23	6.365		
4,700.0	4,569.1	4,700.4	4,516.2	22.2	25.2	16.91	1,195.8	-300.9	184.9	156.1	28.82	6.415		
4,800.0	4,666.0	4,800.2	4,611.5	22.7	25.8	16.69	1,224.4	-308.7	190.1	160.7	29.41	6.463		
4,900.0	4,762.9	4,900.1	4,706.9	23.2	26.4	16.47	1,253.0	-316.4	195.3	165.3	30.00	6.509		

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

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 41B-2
Project:	Garfield County, CO	TVD Reference:	KB=22' @ 8499.0usft
Reference Site:	S2-T7S-R97W (Puckett Pad)	MD Reference:	KB=22' @ 8499.0usft
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 41B-2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S2-T7S-R97W (Puckett Pad) - PUCKETT 41A-2 - DD - 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	4,859.8	5,000.0	4,802.2	23.7	27.0	16.27	1,281.7	-324.1	200.4	169.9	30.59	6.553		
5,100.0	4,956.7	5,099.8	4,897.6	24.3	27.6	16.08	1,310.3	-331.8	205.6	174.5	31.18	6.595		
5,200.0	5,053.6	5,199.7	4,993.0	24.8	28.2	15.90	1,338.9	-339.6	210.8	179.1	31.77	6.635		
5,300.0	5,150.5	5,299.5	5,088.3	25.3	28.8	15.72	1,367.6	-347.3	216.0	183.7	32.37	6.675		
5,400.0	5,247.4	5,399.4	5,183.7	25.8	29.4	15.56	1,396.2	-355.0	221.2	188.3	32.96	6.712		
5,500.0	5,344.3	5,499.3	5,279.0	26.3	30.0	15.40	1,424.9	-362.7	226.4	192.9	33.55	6.748		
5,600.0	5,441.2	5,599.1	5,374.4	26.8	30.6	15.25	1,453.5	-370.5	231.6	197.5	34.15	6.783		
5,700.0	5,538.1	5,699.0	5,469.7	27.3	31.2	15.10	1,482.1	-378.2	236.8	202.1	34.74	6.817		
5,800.0	5,635.0	5,798.9	5,565.1	27.8	31.8	14.96	1,510.8	-385.9	242.1	206.7	35.34	6.850		
5,900.0	5,731.9	5,898.7	5,660.4	28.3	32.3	14.83	1,539.4	-393.6	247.3	211.3	35.93	6.881		
6,000.0	5,828.8	5,998.6	5,755.8	28.8	32.9	14.70	1,568.0	-401.4	252.5	215.9	36.53	6.911		
6,100.0	5,925.7	6,098.4	5,851.2	29.3	33.5	14.58	1,596.7	-409.1	257.7	220.6	37.13	6.941		
6,200.0	6,022.6	6,198.3	5,946.5	29.9	34.1	14.47	1,625.3	-416.8	262.9	225.2	37.72	6.969		
6,300.0	6,119.5	6,298.2	6,041.9	30.4	34.7	14.35	1,653.9	-424.5	268.1	229.8	38.32	6.997		
6,400.0	6,216.4	6,398.0	6,137.2	30.9	35.3	14.24	1,682.6	-432.3	273.3	234.4	38.92	7.023		
6,500.0	6,313.3	6,497.9	6,232.6	31.4	35.9	14.14	1,711.2	-440.0	278.5	239.0	39.51	7.049		
6,600.0	6,410.2	6,597.8	6,327.9	31.9	36.5	14.04	1,739.9	-447.7	283.7	243.6	40.11	7.074		
6,700.0	6,507.1	6,697.6	6,423.3	32.4	37.1	13.94	1,768.5	-455.4	289.0	248.3	40.71	7.099		
6,800.0	6,604.0	6,797.5	6,518.7	32.9	37.7	13.85	1,797.1	-463.1	294.2	252.9	41.30	7.122		
6,900.0	6,700.9	6,897.3	6,614.0	33.4	38.3	13.76	1,825.8	-470.9	299.4	257.5	41.90	7.145		
7,000.0	6,797.8	6,997.2	6,709.4	33.9	38.9	13.67	1,854.4	-478.6	304.6	262.1	42.50	7.167		
7,100.0	6,894.7	7,097.1	6,804.7	34.4	39.5	13.59	1,883.0	-486.3	309.8	266.7	43.10	7.189		
7,200.0	6,992.2	7,215.6	6,918.9	34.9	40.1	13.53	1,913.7	-494.6	314.6	271.0	43.59	7.217		
7,300.0	7,090.7	7,334.8	7,035.5	35.2	40.5	13.49	1,937.7	-501.1	318.3	274.4	43.86	7.257		
7,400.0	7,189.9	7,454.4	7,153.7	35.4	40.8	13.46	1,954.6	-505.6	321.0	277.0	43.98	7.299		
7,500.0	7,289.7	7,574.1	7,273.0	35.6	41.0	13.43	1,964.3	-508.2	322.6	278.7	43.93	7.345		
7,600.0	7,389.7	7,690.8	7,389.7	35.7	41.1	-3.20	1,966.9	-508.9	323.2	279.4	43.83	7.374		
7,700.0	7,489.7	7,790.8	7,489.7	35.8	41.2	-3.20	1,966.9	-508.9	323.2	279.1	44.16	7.320		
7,800.0	7,589.7	7,890.8	7,589.7	35.9	41.3	-3.20	1,966.9	-508.9	323.2	278.7	44.48	7.266		
7,900.0	7,689.7	7,990.8	7,689.7	36.0	41.4	-3.20	1,966.9	-508.9	323.2	278.4	44.81	7.213		
8,000.0	7,789.7	8,090.8	7,789.7	36.1	41.5	-3.20	1,966.9	-508.9	323.2	278.1	45.14	7.160		
8,100.0	7,889.7	8,190.8	7,889.7	36.2	41.6	-3.20	1,966.9	-508.9	323.2	277.7	45.47	7.108		
8,200.0	7,989.7	8,290.8	7,989.7	36.3	41.6	-3.20	1,966.9	-508.9	323.2	277.4	45.81	7.056		
8,300.0	8,089.7	8,390.8	8,089.7	36.4	41.7	-3.20	1,966.9	-508.9	323.2	277.1	46.14	7.005		
8,400.0	8,189.7	8,490.8	8,189.7	36.5	41.8	-3.20	1,966.9	-508.9	323.2	276.7	46.48	6.954		
8,500.0	8,289.7	8,590.8	8,289.7	36.6	41.9	-3.20	1,966.9	-508.9	323.2	276.4	46.82	6.903		
8,600.0	8,389.7	8,690.8	8,389.7	36.7	42.0	-3.20	1,966.9	-508.9	323.2	276.1	47.16	6.853		
8,700.0	8,489.7	8,790.8	8,489.7	36.8	42.1	-3.20	1,966.9	-508.9	323.2	275.7	47.51	6.804		
8,800.0	8,589.7	8,890.8	8,589.7	36.9	42.2	-3.20	1,966.9	-508.9	323.2	275.4	47.85	6.755		
8,900.0	8,689.7	8,990.8	8,689.7	37.0	42.3	-3.20	1,966.9	-508.9	323.2	275.0	48.20	6.706		
9,000.0	8,789.7	9,090.8	8,789.7	37.1	42.4	-3.20	1,966.9	-508.9	323.2	274.7	48.55	6.658		
9,100.0	8,889.7	9,190.8	8,889.7	37.2	42.5	-3.20	1,966.9	-508.9	323.2	274.3	48.90	6.610		
9,129.3	8,919.0	9,220.1	8,919.0	37.3	42.5	-3.20	1,966.9	-508.9	323.2	274.2	49.00	6.596		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 41B-2
Project:	Garfield County, CO	TVD Reference:	KB=22' @ 8499.0usft
Reference Site:	S2-T7S-R97W (Puckett Pad)	MD Reference:	KB=22' @ 8499.0usft
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 41B-2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S2-T7S-R97W (Puckett Pad) - PUCKETT 41C-2 - DD - 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	-154.59	-11.3	-5.4	12.5					
100.0	100.0	100.0	100.0	0.1	0.1	-154.59	-11.3	-5.4	12.5	12.3	0.18	71.301 CC		
139.2	139.2	139.2	139.2	0.2	0.2	-138.46	-11.3	-5.4	12.6	12.3	0.36	35.409		
200.0	200.0	200.0	200.0	0.3	0.3	-139.22	-11.3	-5.4	12.8	12.2	0.64	19.999 ES		
300.0	299.9	300.5	300.5	0.6	0.5	-148.56	-9.8	-5.4	15.2	14.0	1.20	12.642		
400.0	399.4	401.2	401.0	0.8	0.8	-160.03	-3.2	-5.4	17.7	15.9	1.83	9.688		
500.0	498.2	502.0	501.1	1.1	1.0	-169.81	8.4	-6.4	20.8	18.4	2.46	8.480		
600.0	596.1	602.9	600.7	1.5	1.4	-172.35	24.1	-10.7	25.0	21.9	3.08	8.105		
700.0	693.1	703.3	699.0	2.0	1.7	-170.80	43.0	-17.8	29.5	25.9	3.59	8.223		
800.0	790.0	803.2	796.8	2.5	2.2	-169.31	62.2	-25.2	34.0	29.9	4.06	8.360		
900.0	886.9	903.1	894.5	2.9	2.6	-168.17	81.5	-32.5	38.5	33.9	4.57	8.410		
1,000.0	983.8	1,003.0	992.3	3.4	3.0	-167.27	100.7	-39.9	43.0	37.9	5.11	8.410		
1,100.0	1,080.7	1,102.9	1,090.0	3.9	3.4	-166.55	119.9	-47.3	47.5	41.8	5.66	8.386		
1,200.0	1,177.6	1,202.8	1,187.8	4.4	3.9	-165.94	139.1	-54.7	52.0	45.8	6.23	8.348		
1,300.0	1,274.5	1,302.7	1,285.5	4.9	4.3	-165.44	158.3	-62.1	56.5	49.7	6.81	8.303		
1,400.0	1,371.4	1,402.6	1,383.3	5.5	4.7	-165.01	177.5	-69.5	61.1	53.7	7.40	8.256		
1,500.0	1,468.3	1,502.5	1,481.0	6.0	5.2	-164.63	196.8	-76.9	65.6	57.6	7.99	8.210		
1,600.0	1,565.2	1,602.4	1,578.8	6.5	5.6	-164.31	216.0	-84.2	70.1	61.5	8.59	8.166		
1,700.0	1,662.1	1,702.3	1,676.5	7.0	6.0	-164.03	235.2	-91.6	74.7	65.5	9.19	8.123		
1,800.0	1,759.0	1,802.2	1,774.3	7.5	6.5	-163.78	254.4	-99.0	79.2	69.4	9.80	8.084		
1,900.0	1,855.9	1,902.1	1,872.0	8.0	6.9	-163.55	273.6	-106.4	83.7	73.3	10.41	8.046		
2,000.0	1,952.8	2,002.0	1,969.8	8.5	7.3	-163.35	292.8	-113.8	88.3	77.3	11.02	8.012		
2,100.0	2,049.7	2,101.9	2,067.5	9.0	7.8	-163.17	312.1	-121.2	92.8	81.2	11.63	7.979		
2,200.0	2,146.6	2,201.8	2,165.3	9.5	8.2	-163.00	331.3	-128.6	97.3	85.1	12.25	7.949		
2,300.0	2,243.5	2,301.7	2,263.0	10.0	8.7	-162.85	350.5	-136.0	101.9	89.0	12.86	7.921		
2,400.0	2,340.4	2,401.6	2,360.8	10.5	9.1	-162.72	369.7	-143.3	106.4	93.0	13.48	7.894		
2,500.0	2,437.3	2,501.5	2,458.6	11.0	9.5	-162.59	388.9	-150.7	111.0	96.9	14.10	7.870		
2,600.0	2,534.2	2,601.4	2,556.3	11.5	10.0	-162.47	408.1	-158.1	115.5	100.8	14.72	7.847		
2,700.0	2,631.1	2,701.3	2,654.1	12.0	10.4	-162.37	427.4	-165.5	120.1	104.7	15.34	7.825		
2,800.0	2,728.0	2,801.2	2,751.8	12.6	10.9	-162.27	446.6	-172.9	124.6	108.6	15.97	7.805		
2,900.0	2,824.9	2,901.1	2,849.6	13.1	11.3	-162.18	465.8	-180.3	129.2	112.6	16.59	7.786		
3,000.0	2,921.8	3,001.0	2,947.3	13.6	11.7	-162.09	485.0	-187.7	133.7	116.5	17.21	7.768		
3,100.0	3,018.7	3,100.9	3,045.1	14.1	12.2	-162.01	504.2	-195.1	138.2	120.4	17.83	7.751		
3,200.0	3,115.6	3,200.8	3,142.8	14.6	12.6	-161.93	523.4	-202.4	142.8	124.3	18.46	7.736		
3,300.0	3,212.5	3,300.6	3,240.6	15.1	13.1	-161.86	542.7	-209.8	147.3	128.2	19.08	7.721		
3,400.0	3,309.4	3,400.5	3,338.3	15.6	13.5	-161.80	561.9	-217.2	151.9	132.2	19.71	7.707		
3,500.0	3,406.3	3,500.4	3,436.1	16.1	13.9	-161.73	581.1	-224.6	156.4	136.1	20.33	7.693		
3,600.0	3,503.2	3,600.3	3,533.8	16.6	14.4	-161.67	600.3	-232.0	161.0	140.0	20.96	7.681		
3,700.0	3,600.1	3,700.2	3,631.6	17.1	14.8	-161.62	619.5	-239.4	165.5	143.9	21.58	7.669		
3,800.0	3,697.0	3,800.1	3,729.3	17.6	15.3	-161.57	638.7	-246.8	170.1	147.9	22.21	7.658		
3,900.0	3,793.9	3,900.0	3,827.1	18.1	15.7	-161.52	658.0	-254.2	174.6	151.8	22.83	7.647		
4,000.0	3,890.8	3,999.9	3,924.8	18.7	16.1	-161.47	677.2	-261.5	179.2	155.7	23.46	7.637		
4,100.0	3,987.7	4,099.8	4,022.6	19.2	16.6	-161.42	696.4	-268.9	183.7	159.6	24.09	7.627		
4,200.0	4,084.6	4,199.7	4,120.3	19.7	17.0	-161.38	715.6	-276.3	188.2	163.5	24.71	7.618		
4,300.0	4,181.5	4,299.6	4,218.1	20.2	17.5	-161.34	734.8	-283.7	192.8	167.5	25.34	7.609		
4,400.0	4,278.4	4,399.5	4,315.8	20.7	17.9	-161.30	754.0	-291.1	197.3	171.4	25.96	7.601		
4,500.0	4,375.3	4,499.4	4,413.6	21.2	18.4	-161.26	773.3	-298.5	201.9	175.3	26.59	7.593		
4,600.0	4,472.2	4,599.3	4,511.3	21.7	18.8	-161.23	792.5	-305.9	206.4	179.2	27.22	7.585		
4,700.0	4,569.1	4,699.2	4,609.1	22.2	19.2	-161.19	811.7	-313.2	211.0	183.1	27.84	7.578		
4,800.0	4,666.0	4,799.1	4,706.8	22.7	19.7	-161.16	830.9	-320.6	215.5	187.1	28.47	7.571		
4,900.0	4,762.9	4,899.0	4,804.6	23.2	20.1	-161.13	850.1	-328.0	220.1	191.0	29.10	7.564		
5,000.0	4,859.8	4,998.9	4,902.4	23.7	20.6	-161.10	869.3	-335.4	224.6	194.9	29.72	7.557		

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

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 41B-2
Project:	Garfield County, CO	TVD Reference:	KB=22' @ 8499.0usft
Reference Site:	S2-T7S-R97W (Puckett Pad)	MD Reference:	KB=22' @ 8499.0usft
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 41B-2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S2-T7S-R97W (Puckett Pad) - PUCKETT 41C-2 - DD - 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	4,956.7	5,098.8	5,000.1	24.3	21.0	-161.07	888.6	-342.8	229.2	198.8	30.35	7.551		
5,200.0	5,053.6	5,198.7	5,097.9	24.8	21.4	-161.04	907.8	-350.2	233.7	202.7	30.98	7.545		
5,300.0	5,150.5	5,298.6	5,195.6	25.3	21.9	-161.01	927.0	-357.6	238.3	206.7	31.60	7.540		
5,400.0	5,247.4	5,398.5	5,293.4	25.8	22.3	-160.99	946.2	-365.0	242.8	210.6	32.23	7.534		
5,500.0	5,344.3	5,498.4	5,391.1	26.3	22.8	-160.96	965.4	-372.3	247.4	214.5	32.85	7.529		
5,600.0	5,441.2	5,598.3	5,488.9	26.8	23.2	-160.94	984.6	-379.7	251.9	218.4	33.48	7.524		
5,700.0	5,538.1	5,698.2	5,586.6	27.3	23.6	-160.92	1,003.9	-387.1	256.5	222.4	34.11	7.519		
5,800.0	5,635.0	5,798.1	5,684.4	27.8	24.1	-160.90	1,023.1	-394.5	261.0	226.3	34.73	7.515		
5,900.0	5,731.9	5,898.0	5,782.1	28.3	24.5	-160.87	1,042.3	-401.9	265.6	230.2	35.36	7.510		
6,000.0	5,828.8	5,997.9	5,879.9	28.8	25.0	-160.85	1,061.5	-409.3	270.1	234.1	35.99	7.506		
6,100.0	5,925.7	6,097.7	5,977.6	29.3	25.4	-160.83	1,080.7	-416.7	274.7	238.0	36.61	7.502		
6,200.0	6,022.6	6,197.6	6,075.4	29.9	25.8	-160.81	1,099.9	-424.1	279.2	242.0	37.24	7.498		
6,300.0	6,119.5	6,297.5	6,173.1	30.4	26.3	-160.79	1,119.2	-431.4	283.8	245.9	37.86	7.494		
6,400.0	6,216.4	6,397.4	6,270.9	30.9	26.7	-160.78	1,138.4	-438.8	288.3	249.8	38.49	7.490		
6,500.0	6,313.3	6,497.3	6,368.6	31.4	27.2	-160.76	1,157.6	-446.2	292.8	253.7	39.12	7.487		
6,600.0	6,410.2	6,597.2	6,466.4	31.9	27.6	-160.74	1,176.8	-453.6	297.4	257.7	39.74	7.483		
6,700.0	6,507.1	6,697.1	6,564.1	32.4	28.1	-160.73	1,196.0	-461.0	301.9	261.6	40.37	7.480		
6,800.0	6,604.0	6,797.0	6,661.9	32.9	28.5	-160.71	1,215.2	-468.4	306.5	265.5	40.99	7.477		
6,900.0	6,700.9	6,896.9	6,759.6	33.4	28.9	-160.69	1,234.5	-475.8	311.0	269.4	41.62	7.474		
7,000.0	6,797.8	6,996.8	6,857.4	33.9	29.4	-160.68	1,253.7	-483.1	315.6	273.3	42.24	7.471		
7,100.0	6,894.7	7,096.7	6,955.1	34.4	29.8	-160.66	1,272.9	-490.5	320.1	277.3	42.87	7.468		
7,200.0	6,992.2	7,185.4	7,042.1	34.9	30.2	-160.66	1,288.7	-496.6	323.8	280.4	43.40	7.462		
7,300.0	7,090.7	7,271.8	7,127.7	35.2	30.4	-160.66	1,300.5	-501.1	326.7	282.9	43.72	7.471		
7,400.0	7,189.9	7,358.2	7,213.6	35.4	30.6	-160.66	1,308.6	-504.3	328.7	284.8	43.91	7.487		
7,500.0	7,289.7	7,444.6	7,299.9	35.6	30.7	-160.67	1,313.2	-506.0	329.9	286.0	43.95	7.508		
7,600.0	7,389.7	7,534.4	7,389.7	35.7	30.8	-177.31	1,314.2	-506.4	330.4	286.4	43.95	7.517		
7,700.0	7,489.7	7,634.4	7,489.7	35.8	30.9	-177.31	1,314.2	-506.4	330.4	286.1	44.26	7.463		
7,800.0	7,589.7	7,734.4	7,589.7	35.9	31.1	-177.31	1,314.2	-506.4	330.4	285.8	44.59	7.408		
7,900.0	7,689.7	7,834.4	7,689.7	36.0	31.2	-177.31	1,314.2	-506.4	330.4	285.4	44.92	7.354		
8,000.0	7,789.7	7,934.4	7,789.7	36.1	31.3	-177.31	1,314.2	-506.4	330.4	285.1	45.26	7.299		
8,100.0	7,889.7	8,034.4	7,889.7	36.2	31.4	-177.31	1,314.2	-506.4	330.4	284.8	45.59	7.246		
8,200.0	7,989.7	8,134.4	7,989.7	36.3	31.5	-177.31	1,314.2	-506.4	330.4	284.4	45.93	7.192		
8,300.0	8,089.7	8,234.4	8,089.7	36.4	31.7	-177.31	1,314.2	-506.4	330.4	284.1	46.27	7.140		
8,400.0	8,189.7	8,334.4	8,189.7	36.5	31.8	-177.31	1,314.2	-506.4	330.4	283.7	46.61	7.087		
8,500.0	8,289.7	8,434.4	8,289.7	36.6	31.9	-177.31	1,314.2	-506.4	330.4	283.4	46.96	7.035		
8,600.0	8,389.7	8,534.4	8,389.7	36.7	32.0	-177.31	1,314.2	-506.4	330.4	283.1	47.30	6.984		
8,700.0	8,489.7	8,634.4	8,489.7	36.8	32.1	-177.31	1,314.2	-506.4	330.4	282.7	47.65	6.933		
8,800.0	8,589.7	8,734.4	8,589.7	36.9	32.3	-177.31	1,314.2	-506.4	330.4	282.4	48.00	6.883		
8,900.0	8,689.7	8,834.4	8,689.7	37.0	32.4	-177.31	1,314.2	-506.4	330.4	282.0	48.35	6.833		
9,000.0	8,789.7	8,934.4	8,789.7	37.1	32.5	-177.31	1,314.2	-506.4	330.4	281.7	48.70	6.784		
9,100.0	8,889.7	9,034.4	8,889.7	37.2	32.7	-177.31	1,314.2	-506.4	330.4	281.3	49.05	6.735		
9,109.5	8,899.2	9,043.9	8,899.2	37.3	32.7	-177.31	1,314.2	-506.4	330.4	281.3	49.09	6.730		
9,129.3	8,919.0	9,053.7	8,909.0	37.3	32.7	-177.31	1,314.2	-506.4	330.5	281.4	49.14	6.726 SF		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 41B-2
Project:	Garfield County, CO	TVD Reference:	KB=22' @ 8499.0usft
Reference Site:	S2-T7S-R97W (Puckett Pad)	MD Reference:	KB=22' @ 8499.0usft
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 41B-2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S2-T7S-R97W (Puckett Pad) - PUCKETT 41D-2 - DD - 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		
0.0	0.0	0.0	0.0	0.0	0.0	-114.60	-4.0	-8.8	9.6					
100.0	100.0	100.0	100.0	0.1	0.1	-114.60	-4.0	-8.8	9.6	9.4	0.18	54.898 CC		
140.9	140.9	140.9	140.9	0.2	0.2	-99.01	-4.0	-8.8	9.7	9.3	0.36	26.849		
200.0	200.0	200.0	200.0	0.3	0.3	-99.46	-3.9	-8.8	9.7	9.1	0.62	15.507 ES		
300.0	299.9	300.0	299.9	0.6	0.5	-103.37	-0.3	-10.6	10.5	9.4	1.09	9.636		
400.0	399.4	400.0	399.5	0.8	0.8	-105.80	7.8	-14.7	12.3	10.7	1.62	7.573		
500.0	498.2	500.1	498.5	1.1	1.1	-107.20	20.6	-21.0	15.0	12.7	2.25	6.634		
600.0	596.1	599.9	597.1	1.5	1.4	-117.94	34.8	-28.2	19.3	16.3	3.02	6.393 SF		
700.0	693.1	699.5	695.4	2.0	1.8	-132.01	49.0	-35.3	26.7	22.9	3.76	7.094		
800.0	790.0	799.0	793.6	2.5	2.1	-140.14	63.2	-42.3	35.2	30.9	4.38	8.037		
900.0	886.9	898.6	891.9	2.9	2.5	-145.04	77.4	-49.4	44.2	39.3	4.97	8.895		
1,000.0	983.8	998.1	990.2	3.4	2.9	-148.27	91.5	-56.5	53.4	47.9	5.55	9.630		
1,100.0	1,080.7	1,097.6	1,088.5	3.9	3.2	-150.55	105.7	-63.6	62.7	56.6	6.12	10.250		
1,200.0	1,177.6	1,197.2	1,186.7	4.4	3.6	-152.23	119.9	-70.7	72.1	65.4	6.69	10.772		
1,300.0	1,274.5	1,296.7	1,285.0	4.9	4.0	-153.53	134.1	-77.8	81.5	74.3	7.27	11.216		
1,400.0	1,371.4	1,396.2	1,383.3	5.5	4.3	-154.56	148.3	-84.9	91.0	83.2	7.85	11.596		
1,500.0	1,468.3	1,495.8	1,481.5	6.0	4.7	-155.39	162.4	-92.0	100.5	92.1	8.43	11.925		
1,600.0	1,565.2	1,595.3	1,579.8	6.5	5.0	-156.09	176.6	-99.1	110.0	101.0	9.01	12.211		
1,700.0	1,662.1	1,694.9	1,678.1	7.0	5.4	-156.67	190.8	-106.2	119.5	109.9	9.59	12.461		
1,800.0	1,759.0	1,794.4	1,776.3	7.5	5.8	-157.16	205.0	-113.2	129.1	118.9	10.18	12.683		
1,900.0	1,855.9	1,893.9	1,874.6	8.0	6.1	-157.59	219.2	-120.3	138.6	127.8	10.76	12.880		
2,000.0	1,952.8	1,993.5	1,972.9	8.5	6.5	-157.96	233.4	-127.4	148.2	136.8	11.35	13.056		
2,100.0	2,049.7	2,093.0	2,071.1	9.0	6.9	-158.29	247.5	-134.5	157.7	145.8	11.93	13.215		
2,200.0	2,146.6	2,192.6	2,169.4	9.5	7.2	-158.58	261.7	-141.6	167.3	154.7	12.52	13.359		
2,300.0	2,243.5	2,292.1	2,267.7	10.0	7.6	-158.83	275.9	-148.7	176.8	163.7	13.11	13.489		
2,400.0	2,340.4	2,391.6	2,365.9	10.5	8.0	-159.07	290.1	-155.8	186.4	172.7	13.70	13.608		
2,500.0	2,437.3	2,491.2	2,464.2	11.0	8.3	-159.27	304.3	-162.9	195.9	181.7	14.28	13.717		
2,600.0	2,534.2	2,590.7	2,562.5	11.5	8.7	-159.46	318.4	-170.0	205.5	190.6	14.87	13.818		
2,700.0	2,631.1	2,690.3	2,660.7	12.0	9.1	-159.64	332.6	-177.1	215.1	199.6	15.46	13.910		
2,800.0	2,728.0	2,789.8	2,759.0	12.6	9.4	-159.79	346.8	-184.1	224.7	208.6	16.05	13.996		
2,900.0	2,824.9	2,889.3	2,857.3	13.1	9.8	-159.94	361.0	-191.2	234.2	217.6	16.64	14.076		
3,000.0	2,921.8	2,988.9	2,955.5	13.6	10.2	-160.07	375.2	-198.3	243.8	226.6	17.23	14.150		
3,100.0	3,018.7	3,088.4	3,053.8	14.1	10.5	-160.20	389.3	-205.4	253.4	235.6	17.82	14.220		
3,200.0	3,115.6	3,188.0	3,152.1	14.6	10.9	-160.31	403.5	-212.5	263.0	244.5	18.41	14.285		
3,300.0	3,212.5	3,287.5	3,250.4	15.1	11.3	-160.42	417.7	-219.6	272.5	253.5	19.00	14.346		
3,400.0	3,309.4	3,387.0	3,348.6	15.6	11.6	-160.52	431.9	-226.7	282.1	262.5	19.59	14.403		
3,500.0	3,406.3	3,486.6	3,446.9	16.1	12.0	-160.61	446.1	-233.8	291.7	271.5	20.18	14.458		
3,600.0	3,503.2	3,586.1	3,545.2	16.6	12.4	-160.70	460.3	-240.9	301.3	280.5	20.77	14.509		
3,700.0	3,600.1	3,685.6	3,643.4	17.1	12.7	-160.78	474.4	-248.0	310.9	289.5	21.35	14.557		
3,800.0	3,697.0	3,785.2	3,741.7	17.6	13.1	-160.86	488.6	-255.0	320.4	298.5	21.94	14.603		
3,900.0	3,793.9	3,884.7	3,840.0	18.1	13.5	-160.93	502.8	-262.1	330.0	307.5	22.53	14.647		
4,000.0	3,890.8	3,984.3	3,938.2	18.7	13.8	-161.00	517.0	-269.2	339.6	316.5	23.12	14.688		
4,100.0	3,987.7	4,083.8	4,036.5	19.2	14.2	-161.06	531.2	-276.3	349.2	325.5	23.71	14.728		
4,200.0	4,084.6	4,183.3	4,134.8	19.7	14.6	-161.12	545.3	-283.4	358.8	334.5	24.30	14.765		
4,300.0	4,181.5	4,282.9	4,233.0	20.2	15.0	-161.18	559.5	-290.5	368.4	343.5	24.89	14.801		
4,400.0	4,278.4	4,382.4	4,331.3	20.7	15.3	-161.23	573.7	-297.6	377.9	352.5	25.48	14.836		
4,500.0	4,375.3	4,482.0	4,429.6	21.2	15.7	-161.29	587.9	-304.7	387.5	361.5	26.06	14.869		
4,600.0	4,472.2	4,581.5	4,527.8	21.7	16.1	-161.33	602.1	-311.8	397.1	370.5	26.65	14.900		
4,700.0	4,569.1	4,681.0	4,626.1	22.2	16.4	-161.38	616.2	-318.9	406.7	379.5	27.24	14.930		
4,800.0	4,666.0	4,780.6	4,724.4	22.7	16.8	-161.43	630.4	-325.9	416.3	388.5	27.83	14.960		
4,900.0	4,762.9	4,880.1	4,822.6	23.2	17.2	-161.47	644.6	-333.0	425.9	397.4	28.41	14.988		
5,000.0	4,859.8	4,979.7	4,920.9	23.7	17.5	-161.51	658.8	-340.1	435.4	406.4	29.00	15.015		

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

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 41B-2
Project:	Garfield County, CO	TVD Reference:	KB=22' @ 8499.0usft
Reference Site:	S2-T7S-R97W (Puckett Pad)	MD Reference:	KB=22' @ 8499.0usft
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 41B-2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S2-T7S-R97W (Puckett Pad) - PUCKETT 41D-2 - DD - 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		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	4,956.7	5,079.2	5,019.2	24.3	17.9	-161.55	673.0	-347.2	445.0	415.4	29.59	15.041		
5,200.0	5,053.6	5,178.7	5,117.4	24.8	18.3	-161.59	687.1	-354.3	454.6	424.4	30.18	15.066		
5,300.0	5,150.5	5,278.3	5,215.7	25.3	18.6	-161.62	701.3	-361.4	464.2	433.4	30.76	15.090		
5,400.0	5,247.4	5,377.8	5,314.0	25.8	19.0	-161.66	715.5	-368.5	473.8	442.4	31.35	15.114		
5,500.0	5,344.3	5,477.3	5,412.3	26.3	19.4	-161.69	729.7	-375.6	483.4	451.4	31.94	15.136		
5,600.0	5,441.2	5,576.9	5,510.5	26.8	19.7	-161.72	743.9	-382.7	493.0	460.4	32.52	15.158		
5,700.0	5,538.1	5,676.4	5,608.8	27.3	20.1	-161.76	758.1	-389.8	502.6	469.4	33.11	15.180		
5,800.0	5,635.0	5,776.0	5,707.1	27.8	20.5	-161.79	772.2	-396.9	512.1	478.5	33.69	15.200		
5,900.0	5,731.9	5,875.5	5,805.3	28.3	20.8	-161.81	786.4	-403.9	521.7	487.5	34.28	15.220		
6,000.0	5,828.8	5,975.0	5,903.6	28.8	21.2	-161.84	800.6	-411.0	531.3	496.5	34.86	15.240		
6,100.0	5,925.7	6,074.6	6,001.9	29.3	21.6	-161.87	814.8	-418.1	540.9	505.5	35.45	15.259		
6,200.0	6,022.6	6,174.1	6,100.1	29.9	21.9	-161.89	829.0	-425.2	550.5	514.5	36.03	15.277		
6,300.0	6,119.5	6,273.7	6,198.4	30.4	22.3	-161.92	843.1	-432.3	560.1	523.5	36.62	15.295		
6,400.0	6,216.4	6,373.2	6,296.7	30.9	22.7	-161.94	857.3	-439.4	569.7	532.5	37.20	15.313		
6,500.0	6,313.3	6,472.7	6,394.9	31.4	23.0	-161.97	871.5	-446.5	579.3	541.5	37.79	15.330		
6,600.0	6,410.2	6,572.3	6,493.2	31.9	23.4	-161.99	885.7	-453.6	588.8	550.5	38.37	15.346		
6,700.0	6,507.1	6,671.8	6,591.5	32.4	23.8	-162.01	899.9	-460.7	598.4	559.5	38.95	15.362		
6,800.0	6,604.0	6,771.4	6,689.7	32.9	24.1	-162.03	914.0	-467.8	608.0	568.5	39.54	15.378		
6,900.0	6,700.9	6,870.9	6,788.0	33.4	24.5	-162.05	928.2	-474.8	617.6	577.5	40.12	15.393		
7,000.0	6,797.8	6,970.4	6,886.3	33.9	24.9	-162.07	942.4	-481.9	627.2	586.5	40.70	15.409		
7,100.0	6,894.7	7,070.0	6,984.5	34.4	25.2	-162.09	956.6	-489.0	636.8	595.5	41.29	15.423		
7,200.0	6,992.2	7,163.1	7,076.5	34.9	25.6	-162.12	969.7	-495.6	644.2	602.3	41.85	15.391		
7,300.0	7,090.7	7,240.0	7,152.7	35.2	25.8	-162.12	978.5	-500.0	649.2	607.0	42.20	15.385		
7,400.0	7,189.9	7,316.7	7,229.2	35.4	25.9	-162.12	984.6	-503.0	652.8	610.4	42.40	15.397		
7,500.0	7,289.7	7,400.0	7,312.4	35.6	26.1	-162.13	988.0	-504.7	655.1	612.6	42.48	15.422		
7,600.0	7,389.7	7,477.3	7,389.7	35.7	26.2	-178.77	988.5	-505.0	655.8	613.3	42.49	15.432		
7,700.0	7,489.7	7,577.3	7,489.7	35.8	26.3	-178.77	988.5	-505.0	655.8	612.9	42.83	15.311		
7,800.0	7,589.7	7,677.3	7,589.7	35.9	26.4	-178.77	988.5	-505.0	655.8	612.6	43.17	15.190		
7,900.0	7,689.7	7,777.3	7,689.7	36.0	26.6	-178.77	988.5	-505.0	655.8	612.3	43.52	15.069		
8,000.0	7,789.7	7,877.3	7,789.7	36.1	26.7	-178.77	988.5	-505.0	655.8	611.9	43.86	14.950		
8,100.0	7,889.7	7,977.3	7,889.7	36.2	26.9	-178.77	988.5	-505.0	655.8	611.6	44.21	14.833		
8,200.0	7,989.7	8,077.3	7,989.7	36.3	27.0	-178.77	988.5	-505.0	655.8	611.2	44.56	14.716		
8,300.0	8,089.7	8,177.3	8,089.7	36.4	27.1	-178.77	988.5	-505.0	655.8	610.9	44.91	14.601		
8,400.0	8,189.7	8,277.3	8,189.7	36.5	27.3	-178.77	988.5	-505.0	655.8	610.5	45.27	14.487		
8,500.0	8,289.7	8,377.3	8,289.7	36.6	27.4	-178.77	988.5	-505.0	655.8	610.1	45.62	14.374		
8,600.0	8,389.7	8,477.3	8,389.7	36.7	27.6	-178.77	988.5	-505.0	655.8	609.8	45.98	14.262		
8,700.0	8,489.7	8,577.3	8,489.7	36.8	27.7	-178.77	988.5	-505.0	655.8	609.4	46.34	14.152		
8,800.0	8,589.7	8,677.3	8,589.7	36.9	27.9	-178.77	988.5	-505.0	655.8	609.1	46.70	14.042		
8,900.0	8,689.7	8,777.3	8,689.7	37.0	28.0	-178.77	988.5	-505.0	655.8	608.7	47.06	13.935		
9,000.0	8,789.7	8,877.3	8,789.7	37.1	28.2	-178.77	988.5	-505.0	655.8	608.3	47.42	13.828		
9,100.0	8,889.7	8,977.3	8,889.7	37.2	28.3	-178.77	988.5	-505.0	655.8	608.1	47.72	13.743		
9,104.7	8,894.4	8,982.1	8,894.4	37.3	28.3	-178.77	988.5	-505.0	655.8	608.0	47.73	13.740		
9,129.3	8,919.0	8,992.0	8,904.3	37.3	28.3	-178.77	988.5	-505.0	655.9	608.2	47.78	13.728		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 41B-2
Project:	Garfield County, CO	TVD Reference:	KB=22' @ 8499.0usft
Reference Site:	S2-T7S-R97W (Puckett Pad)	MD Reference:	KB=22' @ 8499.0usft
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 41B-2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S2-T7S-R97W (Puckett Pad) - PUCKETT 42A-2 - DD - 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									
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		
0.0	0.0	0.0	0.0	0.0	0.0	-173.33	-19.3	-2.3	19.4						
100.0	100.0	100.0	100.0	0.1	0.1	-173.33	-19.3	-2.3	19.4	19.3	0.18	110.861 CC			
139.0	139.0	139.0	139.0	0.2	0.2	-156.89	-19.3	-2.3	19.6	19.2	0.36	54.782			
200.0	200.0	200.0	200.0	0.3	0.3	-157.18	-19.3	-2.3	19.8	19.2	0.65	30.576 ES			
300.0	299.9	300.1	300.1	0.6	0.5	-161.23	-19.2	-2.4	24.1	22.9	1.24	19.490			
400.0	399.4	401.1	401.0	0.8	0.8	-162.58	-16.0	-4.7	30.4	28.6	1.84	16.516			
500.0	498.2	502.2	501.7	1.1	1.0	-160.91	-8.4	-10.3	37.6	35.1	2.45	15.299			
600.0	596.1	601.9	600.6	1.5	1.3	-159.59	1.4	-17.5	47.3	44.2	3.09	15.292 SF			
700.0	693.1	700.9	698.9	2.0	1.6	-160.16	11.2	-24.7	60.9	57.2	3.64	16.736			
800.0	790.0	799.9	797.2	2.5	1.9	-160.65	20.9	-31.9	74.8	70.7	4.14	18.078			
900.0	886.9	899.0	895.4	2.9	2.2	-160.98	30.7	-39.1	88.8	84.1	4.66	19.045			
1,000.0	983.8	998.0	993.7	3.4	2.5	-161.22	40.5	-46.3	102.8	97.6	5.20	19.761			
1,100.0	1,080.7	1,097.0	1,092.0	3.9	2.8	-161.41	50.3	-53.5	116.7	111.0	5.75	20.307			
1,200.0	1,177.6	1,196.0	1,190.2	4.4	3.1	-161.55	60.0	-60.7	130.7	124.4	6.30	20.732			
1,300.0	1,274.5	1,295.0	1,288.5	4.9	3.4	-161.67	69.8	-67.9	144.7	137.8	6.87	21.070			
1,400.0	1,371.4	1,394.1	1,386.8	5.5	3.7	-161.77	79.6	-75.1	158.6	151.2	7.43	21.344			
1,500.0	1,468.3	1,493.1	1,485.1	6.0	4.0	-161.85	89.4	-82.2	172.6	164.6	8.00	21.569			
1,600.0	1,565.2	1,592.1	1,583.3	6.5	4.4	-161.92	99.1	-89.4	186.5	178.0	8.57	21.758			
1,700.0	1,662.1	1,691.1	1,681.6	7.0	4.7	-161.98	108.9	-96.6	200.5	191.4	9.15	21.919			
1,800.0	1,759.0	1,790.1	1,779.9	7.5	5.0	-162.03	118.7	-103.8	214.5	204.8	9.72	22.056			
1,900.0	1,855.9	1,889.2	1,878.2	8.0	5.3	-162.07	128.5	-111.0	228.4	218.1	10.30	22.175			
2,000.0	1,952.8	1,988.2	1,976.4	8.5	5.6	-162.11	138.2	-118.2	242.4	231.5	10.88	22.279			
2,100.0	2,049.7	2,087.2	2,074.7	9.0	5.9	-162.15	148.0	-125.4	256.4	244.9	11.46	22.371			
2,200.0	2,146.6	2,186.2	2,173.0	9.5	6.2	-162.18	157.8	-132.6	270.3	258.3	12.04	22.453			
2,300.0	2,243.5	2,285.2	2,271.3	10.0	6.5	-162.21	167.6	-139.8	284.3	271.7	12.62	22.527			
2,400.0	2,340.4	2,384.3	2,369.5	10.5	6.9	-162.23	177.3	-147.0	298.3	285.1	13.20	22.593			
2,500.0	2,437.3	2,483.3	2,467.8	11.0	7.2	-162.26	187.1	-154.2	312.2	298.5	13.78	22.653			
2,600.0	2,534.2	2,582.3	2,566.1	11.5	7.5	-162.28	196.9	-161.4	326.2	311.8	14.37	22.708			
2,700.0	2,631.1	2,681.3	2,664.3	12.0	7.8	-162.30	206.7	-168.6	340.2	325.2	14.95	22.758			
2,800.0	2,728.0	2,780.3	2,762.6	12.6	8.1	-162.32	216.4	-175.8	354.1	338.6	15.53	22.805			
2,900.0	2,824.9	2,879.4	2,860.9	13.1	8.4	-162.34	226.2	-183.0	368.1	352.0	16.11	22.847			
3,000.0	2,921.8	2,978.4	2,959.2	13.6	8.7	-162.35	236.0	-190.2	382.1	365.4	16.69	22.887			
3,100.0	3,018.7	3,077.4	3,057.4	14.1	9.1	-162.37	245.8	-197.4	396.0	378.8	17.28	22.925			
3,200.0	3,115.6	3,176.4	3,155.7	14.6	9.4	-162.38	255.5	-204.6	410.0	392.2	17.86	22.960			
3,300.0	3,212.5	3,275.4	3,254.0	15.1	9.7	-162.39	265.3	-211.7	424.0	405.5	18.44	22.992			
3,400.0	3,309.4	3,374.4	3,352.3	15.6	10.0	-162.40	275.1	-218.9	437.9	418.9	19.02	23.023			
3,500.0	3,406.3	3,473.5	3,450.5	16.1	10.3	-162.42	284.9	-226.1	451.9	432.3	19.60	23.053			
3,600.0	3,503.2	3,572.5	3,548.8	16.6	10.6	-162.43	294.6	-233.3	465.9	445.7	20.19	23.080			
3,700.0	3,600.1	3,671.5	3,647.1	17.1	10.9	-162.44	304.4	-240.5	479.8	459.1	20.77	23.107			
3,800.0	3,697.0	3,770.5	3,745.4	17.6	11.3	-162.45	314.2	-247.7	493.8	472.5	21.35	23.132			
3,900.0	3,793.9	3,869.5	3,843.6	18.1	11.6	-162.45	324.0	-254.9	507.8	485.9	21.93	23.156			
4,000.0	3,890.8	3,968.6	3,941.9	18.7	11.9	-162.46	333.7	-262.1	521.7	499.2	22.51	23.179			
4,100.0	3,987.7	4,067.6	4,040.2	19.2	12.2	-162.47	343.5	-269.3	535.7	512.6	23.09	23.201			
4,200.0	4,084.6	4,166.6	4,138.4	19.7	12.5	-162.48	353.3	-276.5	549.7	526.0	23.67	23.222			
4,300.0	4,181.5	4,265.6	4,236.7	20.2	12.8	-162.48	363.1	-283.7	563.6	539.4	24.25	23.243			
4,400.0	4,278.4	4,364.6	4,335.0	20.7	13.1	-162.49	372.8	-290.9	577.6	552.8	24.83	23.262			
4,500.0	4,375.3	4,463.7	4,433.3	21.2	13.5	-162.50	382.6	-298.1	591.6	566.2	25.41	23.282			
4,600.0	4,472.2	4,562.7	4,531.5	21.7	13.8	-162.50	392.4	-305.3	605.5	579.6	25.99	23.300			
4,700.0	4,569.1	4,661.7	4,629.8	22.2	14.1	-162.51	402.2	-312.5	619.5	592.9	26.57	23.318			
4,800.0	4,666.0	4,760.7	4,728.1	22.7	14.4	-162.52	411.9	-319.7	633.5	606.3	27.15	23.335			
4,900.0	4,762.9	4,859.7	4,826.4	23.2	14.7	-162.52	421.7	-326.9	647.4	619.7	27.73	23.352			
5,000.0	4,859.8	4,958.8	4,924.6	23.7	15.0	-162.53	431.5	-334.1	661.4	633.1	28.30	23.369			

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

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 41B-2
Project:	Garfield County, CO	TVD Reference:	KB=22' @ 8499.0usft
Reference Site:	S2-T7S-R97W (Puckett Pad)	MD Reference:	KB=22' @ 8499.0usft
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 41B-2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S2-T7S-R97W (Puckett Pad) - PUCKETT 42A-2 - DD - 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	4,956.7	5,057.8	5,022.9	24.3	15.3	-162.53	441.3	-341.2	675.4	646.5	28.88	23.385	
5,200.0	5,053.6	5,156.8	5,121.2	24.8	15.7	-162.54	451.0	-348.4	689.3	659.9	29.46	23.400	
5,300.0	5,150.5	5,255.8	5,219.4	25.3	16.0	-162.54	460.8	-355.6	703.3	673.3	30.04	23.416	
5,400.0	5,247.4	5,354.8	5,317.7	25.8	16.3	-162.55	470.6	-362.8	717.3	686.7	30.61	23.430	
5,500.0	5,344.3	5,453.9	5,416.0	26.3	16.6	-162.55	480.4	-370.0	731.2	700.1	31.19	23.445	
5,600.0	5,441.2	5,552.9	5,514.3	26.8	16.9	-162.55	490.1	-377.2	745.2	713.5	31.77	23.459	
5,700.0	5,538.1	5,651.9	5,612.5	27.3	17.2	-162.56	499.9	-384.4	759.2	726.8	32.34	23.473	
5,800.0	5,635.0	5,750.9	5,710.8	27.8	17.5	-162.56	509.7	-391.6	773.2	740.2	32.92	23.487	
5,900.0	5,731.9	5,849.9	5,809.1	28.3	17.9	-162.56	519.5	-398.8	787.1	753.6	33.49	23.501	
6,000.0	5,828.8	5,949.0	5,907.4	28.8	18.2	-162.57	529.2	-406.0	801.1	767.0	34.07	23.514	
6,100.0	5,925.7	6,048.0	6,005.6	29.3	18.5	-162.57	539.0	-413.2	815.1	780.4	34.64	23.527	
6,200.0	6,022.6	6,147.0	6,103.9	29.9	18.8	-162.58	548.8	-420.4	829.0	793.8	35.22	23.540	
6,300.0	6,119.5	6,246.0	6,202.2	30.4	19.1	-162.58	558.6	-427.6	843.0	807.2	35.79	23.553	
6,400.0	6,216.4	6,345.0	6,300.5	30.9	19.4	-162.58	568.3	-434.8	857.0	820.6	36.37	23.565	
6,500.0	6,313.3	6,444.1	6,398.7	31.4	19.7	-162.58	578.1	-442.0	870.9	834.0	36.94	23.577	
6,600.0	6,410.2	6,543.1	6,497.0	31.9	20.1	-162.59	587.9	-449.2	884.9	847.4	37.51	23.589	
6,700.0	6,507.1	6,642.1	6,595.3	32.4	20.4	-162.59	597.7	-456.4	898.9	860.8	38.08	23.601	
6,800.0	6,604.0	6,741.1	6,693.5	32.9	20.7	-162.59	607.4	-463.6	912.8	874.2	38.66	23.613	
6,900.0	6,700.9	6,840.1	6,791.8	33.4	21.0	-162.60	617.2	-470.8	926.8	887.6	39.23	23.625	
7,000.0	6,797.8	6,939.2	6,890.1	33.9	21.3	-162.60	627.0	-477.9	940.8	901.0	39.80	23.636	
7,100.0	6,894.7	7,038.2	6,988.4	34.4	21.6	-162.60	636.8	-485.1	954.7	914.3	40.37	23.648	
7,200.0	6,992.2	7,137.5	7,086.9	34.9	22.0	-162.66	646.6	-492.4	966.3	925.4	40.98	23.583	
7,300.0	7,090.7	7,218.0	7,166.9	35.2	22.2	-162.64	654.1	-497.9	973.6	932.2	41.39	23.524	
7,400.0	7,189.9	7,300.0	7,248.6	35.4	22.3	-162.63	659.1	-501.6	978.8	937.2	41.64	23.507	
7,500.0	7,289.7	7,359.8	7,308.4	35.6	22.4	-162.64	661.0	-503.0	981.8	940.1	41.71	23.539	
7,600.0	7,389.7	7,441.1	7,389.7	35.7	22.6	-179.27	661.5	-503.3	982.8	941.0	41.77	23.530	
7,700.0	7,489.7	7,541.1	7,489.7	35.8	22.7	-179.27	661.5	-503.3	982.8	940.7	42.10	23.343	
7,800.0	7,589.7	7,641.1	7,589.7	35.9	22.9	-179.27	661.5	-503.3	982.8	940.3	42.45	23.151	
7,900.0	7,689.7	7,741.1	7,689.7	36.0	23.0	-179.27	661.5	-503.3	982.8	940.0	42.80	22.961	
8,000.0	7,789.7	7,841.1	7,789.7	36.1	23.2	-179.27	661.5	-503.3	982.8	939.6	43.16	22.773	
8,100.0	7,889.7	7,941.1	7,889.7	36.2	23.4	-179.27	661.5	-503.3	982.8	939.3	43.51	22.587	
8,200.0	7,989.7	8,041.1	7,989.7	36.3	23.5	-179.27	661.5	-503.3	982.8	938.9	43.87	22.404	
8,300.0	8,089.7	8,141.1	8,089.7	36.4	23.7	-179.27	661.5	-503.3	982.8	938.5	44.22	22.222	
8,400.0	8,189.7	8,241.1	8,189.7	36.5	23.8	-179.27	661.5	-503.3	982.8	938.2	44.58	22.043	
8,500.0	8,289.7	8,341.1	8,289.7	36.6	24.0	-179.27	661.5	-503.3	982.8	937.8	44.95	21.866	
8,600.0	8,389.7	8,441.1	8,389.7	36.7	24.2	-179.27	661.5	-503.3	982.8	937.5	45.31	21.691	
8,700.0	8,489.7	8,541.1	8,489.7	36.8	24.4	-179.27	661.5	-503.3	982.8	937.1	45.67	21.518	
8,800.0	8,589.7	8,641.1	8,589.7	36.9	24.5	-179.27	661.5	-503.3	982.8	936.7	46.04	21.347	
8,900.0	8,689.7	8,741.1	8,689.7	37.0	24.7	-179.27	661.5	-503.3	982.8	936.4	46.41	21.178	
9,000.0	8,789.7	8,841.1	8,789.7	37.1	24.9	-179.27	661.5	-503.3	982.8	936.0	46.77	21.011	
9,100.0	8,889.7	8,941.1	8,889.7	37.2	25.0	-179.27	661.5	-503.3	982.8	935.6	47.14	20.846	
9,129.3	8,919.0	8,945.4	8,894.0	37.3	25.0	-179.27	661.5	-503.3	983.1	935.9	47.20	20.826	

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 41B-2
Project:	Garfield County, CO	TVD Reference:	KB=22' @ 8499.0usft
Reference Site:	S2-T7S-R97W (Puckett Pad)	MD Reference:	KB=22' @ 8499.0usft
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 41B-2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S2-T7S-R97W (Puckett Pad) - PUCKETT 42B-2 - DD - 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		
0.0	0.0	0.0	0.0	0.0	0.0	178.15	-26.2	0.8	26.2					
100.0	100.0	100.0	100.0	0.1	0.1	178.15	-26.2	0.8	26.2	26.1	0.18	149.661 CC		
138.9	138.9	138.9	138.9	0.2	0.2	-165.31	-26.2	0.8	26.4	26.0	0.36	73.728		
200.0	200.0	200.0	200.0	0.3	0.3	-165.45	-26.2	0.8	26.6	26.0	0.65	40.951 ES		
300.0	299.9	299.9	299.9	0.6	0.5	-167.59	-26.2	0.8	31.2	30.0	1.25	25.003		
400.0	399.4	400.4	400.4	0.8	0.8	-168.99	-25.4	-0.4	40.0	38.1	1.87	21.445		
500.0	498.2	501.3	501.1	1.1	1.0	-166.58	-21.5	-5.8	50.6	48.1	2.47	20.499 SF		
600.0	596.1	600.3	599.6	1.5	1.2	-164.45	-16.3	-13.0	64.7	61.6	3.11	20.842		
700.0	693.1	698.6	697.6	2.0	1.5	-163.95	-11.1	-20.2	82.9	79.3	3.63	22.832		
800.0	790.0	796.9	795.4	2.5	1.8	-163.72	-5.9	-27.4	101.4	97.3	4.11	24.670		
900.0	886.9	895.2	893.3	2.9	2.0	-163.57	-0.8	-34.6	120.0	115.4	4.62	25.985		
1,000.0	983.8	993.4	991.2	3.4	2.3	-163.45	4.4	-41.8	138.5	133.4	5.14	26.949		
1,100.0	1,080.7	1,091.7	1,089.0	3.9	2.6	-163.36	9.6	-49.0	157.0	151.3	5.67	27.673		
1,200.0	1,177.6	1,190.0	1,186.9	4.4	2.8	-163.29	14.8	-56.2	175.5	169.3	6.22	28.236		
1,300.0	1,274.5	1,288.2	1,284.8	4.9	3.1	-163.24	19.9	-63.4	194.1	187.3	6.77	28.674		
1,400.0	1,371.4	1,386.5	1,382.6	5.5	3.4	-163.19	25.1	-70.6	212.6	205.3	7.32	29.028		
1,500.0	1,468.3	1,484.8	1,480.5	6.0	3.6	-163.15	30.3	-77.7	231.1	223.2	7.88	29.316		
1,600.0	1,565.2	1,583.0	1,578.4	6.5	3.9	-163.12	35.5	-84.9	249.7	241.2	8.45	29.556		
1,700.0	1,662.1	1,681.3	1,676.3	7.0	4.2	-163.09	40.6	-92.1	268.2	259.2	9.01	29.758		
1,800.0	1,759.0	1,779.6	1,774.1	7.5	4.5	-163.06	45.8	-99.3	286.7	277.1	9.58	29.929		
1,900.0	1,855.9	1,877.8	1,872.0	8.0	4.7	-163.04	51.0	-106.5	305.2	295.1	10.15	30.078		
2,000.0	1,952.8	1,976.1	1,969.9	8.5	5.0	-163.02	56.1	-113.7	323.8	313.0	10.72	30.207		
2,100.0	2,049.7	2,074.4	2,067.7	9.0	5.3	-163.01	61.3	-120.9	342.3	331.0	11.29	30.320		
2,200.0	2,146.6	2,172.6	2,165.6	9.5	5.5	-162.99	66.5	-128.1	360.8	349.0	11.86	30.421		
2,300.0	2,243.5	2,270.9	2,263.5	10.0	5.8	-162.98	71.7	-135.3	379.4	366.9	12.43	30.511		
2,400.0	2,340.4	2,369.2	2,361.3	10.5	6.1	-162.96	76.8	-142.5	397.9	384.9	13.01	30.592		
2,500.0	2,437.3	2,467.5	2,459.2	11.0	6.4	-162.95	82.0	-149.7	416.4	402.8	13.58	30.666		
2,600.0	2,534.2	2,565.7	2,557.1	11.5	6.6	-162.94	87.2	-156.9	434.9	420.8	14.15	30.733		
2,700.0	2,631.1	2,664.0	2,654.9	12.0	6.9	-162.93	92.3	-164.1	453.5	438.7	14.73	30.794		
2,800.0	2,728.0	2,762.3	2,752.8	12.6	7.2	-162.92	97.5	-171.3	472.0	456.7	15.30	30.851		
2,900.0	2,824.9	2,860.5	2,850.7	13.1	7.5	-162.91	102.7	-178.5	490.5	474.6	15.87	30.904		
3,000.0	2,921.8	2,958.8	2,948.5	13.6	7.7	-162.91	107.9	-185.6	509.0	492.6	16.45	30.953		
3,100.0	3,018.7	3,057.1	3,046.4	14.1	8.0	-162.90	113.0	-192.8	527.6	510.6	17.02	30.999		
3,200.0	3,115.6	3,155.3	3,144.3	14.6	8.3	-162.89	118.2	-200.0	546.1	528.5	17.59	31.042		
3,300.0	3,212.5	3,253.6	3,242.1	15.1	8.6	-162.89	123.4	-207.2	564.6	546.5	18.17	31.083		
3,400.0	3,309.4	3,351.9	3,340.0	15.6	8.8	-162.88	128.5	-214.4	583.2	564.4	18.74	31.121		
3,500.0	3,406.3	3,450.1	3,437.9	16.1	9.1	-162.88	133.7	-221.6	601.7	582.4	19.31	31.158		
3,600.0	3,503.2	3,548.4	3,535.8	16.6	9.4	-162.87	138.9	-228.8	620.2	600.3	19.88	31.193		
3,700.0	3,600.1	3,646.7	3,633.6	17.1	9.7	-162.87	144.1	-236.0	638.7	618.3	20.46	31.226		
3,800.0	3,697.0	3,744.9	3,731.5	17.6	9.9	-162.86	149.2	-243.2	657.3	636.2	21.03	31.258		
3,900.0	3,793.9	3,843.2	3,829.4	18.1	10.2	-162.86	154.4	-250.4	675.8	654.2	21.60	31.289		
4,000.0	3,890.8	3,941.5	3,927.2	18.7	10.5	-162.85	159.6	-257.6	694.3	672.2	22.17	31.318		
4,100.0	3,987.7	4,039.8	4,025.1	19.2	10.7	-162.85	164.7	-264.8	712.9	690.1	22.74	31.347		
4,200.0	4,084.6	4,138.0	4,123.0	19.7	11.0	-162.84	169.9	-272.0	731.4	708.1	23.31	31.374		
4,300.0	4,181.5	4,236.3	4,220.8	20.2	11.3	-162.84	175.1	-279.2	749.9	726.0	23.88	31.401		
4,400.0	4,278.4	4,334.6	4,318.7	20.7	11.6	-162.84	180.3	-286.4	768.4	744.0	24.45	31.427		
4,500.0	4,375.3	4,432.8	4,416.6	21.2	11.8	-162.83	185.4	-293.6	787.0	761.9	25.02	31.452		
4,600.0	4,472.2	4,531.1	4,514.4	21.7	12.1	-162.83	190.6	-300.7	805.5	779.9	25.59	31.476		
4,700.0	4,569.1	4,629.4	4,612.3	22.2	12.4	-162.83	195.8	-307.9	824.0	797.9	26.16	31.500		
4,800.0	4,666.0	4,727.6	4,710.2	22.7	12.7	-162.83	200.9	-315.1	842.5	815.8	26.73	31.524		
4,900.0	4,762.9	4,825.9	4,808.0	23.2	12.9	-162.82	206.1	-322.3	861.1	833.8	27.30	31.546		
5,000.0	4,859.8	4,924.2	4,905.9	23.7	13.2	-162.82	211.3	-329.5	879.6	851.7	27.86	31.569		

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

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 41B-2
Project:	Garfield County, CO	TVD Reference:	KB=22' @ 8499.0usft
Reference Site:	S2-T7S-R97W (Puckett Pad)	MD Reference:	KB=22' @ 8499.0usft
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 41B-2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S2-T7S-R97W (Puckett Pad) - PUCKETT 42B-2 - DD - 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		
5,100.0	4,956.7	5,022.4	5,003.8	24.3	13.5	-162.82	216.5	-336.7	898.1	869.7	28.43	31.591		
5,200.0	5,053.6	5,120.7	5,101.6	24.8	13.8	-162.82	221.6	-343.9	916.7	887.7	29.00	31.612		
5,300.0	5,150.5	5,219.0	5,199.5	25.3	14.0	-162.81	226.8	-351.1	935.2	905.6	29.56	31.633		
5,400.0	5,247.4	5,317.2	5,297.4	25.8	14.3	-162.81	232.0	-358.3	953.7	923.6	30.13	31.654		
5,500.0	5,344.3	5,415.5	5,395.3	26.3	14.6	-162.81	237.1	-365.5	972.2	941.5	30.70	31.674		
5,600.0	5,441.2	5,513.8	5,493.1	26.8	14.9	-162.81	242.3	-372.7	990.8	959.5	31.26	31.694		
5,700.0	5,538.1	5,612.1	5,591.0	27.3	15.1	-162.81	247.5	-379.9	1,009.3	977.5	31.83	31.714		
5,800.0	5,635.0	5,710.3	5,688.9	27.8	15.4	-162.80	252.7	-387.1	1,027.8	995.4	32.39	31.733		
5,900.0	5,731.9	5,808.6	5,786.7	28.3	15.7	-162.80	257.8	-394.3	1,046.4	1,013.4	32.95	31.753		
6,000.0	5,828.8	5,906.9	5,884.6	28.8	16.0	-162.80	263.0	-401.5	1,064.9	1,031.4	33.52	31.772		
6,100.0	5,925.7	6,005.1	5,982.5	29.3	16.2	-162.80	268.2	-408.6	1,083.4	1,049.3	34.08	31.790		
6,200.0	6,022.6	6,103.4	6,080.3	29.9	16.5	-162.80	273.4	-415.8	1,101.9	1,067.3	34.64	31.809		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 41B-2
Project:	Garfield County, CO	TVD Reference:	KB=22' @ 8499.0usft
Reference Site:	S2-T7S-R97W (Puckett Pad)	MD Reference:	KB=22' @ 8499.0usft
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 41B-2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S2-T7S-R97W (Puckett Pad) - PUCKETT 42C-2 - DD - 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									
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		
0.0	0.0	0.0	0.0	0.0	0.0	171.85	-33.5	4.8	33.9						
100.0	100.0	100.0	100.0	0.1	0.1	171.85	-33.5	4.8	33.9	33.7	0.18	193.084 CC			
138.9	138.9	138.9	138.9	0.2	0.2	-171.57	-33.5	4.8	34.0	33.6	0.36	94.934			
200.0	200.0	200.0	200.0	0.3	0.3	-171.63	-33.5	4.8	34.3	33.6	0.65	52.577 ES			
300.0	299.9	299.9	299.9	0.6	0.5	-172.62	-33.5	4.8	38.9	37.7	1.25	31.059			
400.0	399.4	399.5	399.5	0.8	0.8	-173.91	-33.5	4.6	48.8	46.9	1.88	25.965			
500.0	498.2	499.2	499.1	1.1	1.0	-171.89	-33.2	0.8	62.8	60.3	2.49	25.229 SF			
600.0	596.1	597.6	597.2	1.5	1.2	-168.78	-32.6	-6.4	81.3	78.2	3.12	26.091			
700.0	693.1	694.9	694.3	2.0	1.4	-167.33	-32.0	-13.6	104.0	100.4	3.63	28.680			
800.0	790.0	792.2	791.3	2.5	1.7	-166.47	-31.4	-20.8	127.0	122.9	4.09	31.075			
900.0	886.9	889.5	888.4	2.9	1.9	-165.88	-30.8	-28.0	150.1	145.5	4.58	32.786			
1,000.0	983.8	986.8	985.4	3.4	2.2	-165.44	-30.2	-35.2	173.1	168.0	5.09	34.035			
1,100.0	1,080.7	1,084.1	1,082.4	3.9	2.4	-165.10	-29.6	-42.4	196.2	190.6	5.61	34.970			
1,200.0	1,177.6	1,181.4	1,179.5	4.4	2.7	-164.84	-29.0	-49.6	219.2	213.1	6.14	35.684			
1,300.0	1,274.5	1,278.7	1,276.5	4.9	2.9	-164.62	-28.5	-56.7	242.3	235.6	6.69	36.241			
1,400.0	1,371.4	1,376.0	1,373.5	5.5	3.2	-164.45	-27.9	-63.9	265.4	258.1	7.23	36.685			
1,500.0	1,468.3	1,473.3	1,470.6	6.0	3.4	-164.30	-27.3	-71.1	288.5	280.7	7.79	37.045			
1,600.0	1,565.2	1,570.6	1,567.6	6.5	3.7	-164.17	-26.7	-78.3	311.5	303.2	8.34	37.342			
1,700.0	1,662.1	1,667.9	1,664.6	7.0	3.9	-164.06	-26.1	-85.5	334.6	325.7	8.90	37.590			
1,800.0	1,759.0	1,765.2	1,761.7	7.5	4.2	-163.97	-25.5	-92.7	357.7	348.2	9.46	37.799			
1,900.0	1,855.9	1,862.5	1,858.7	8.0	4.4	-163.88	-24.9	-99.9	380.8	370.7	10.03	37.979			
2,000.0	1,952.8	1,959.8	1,955.7	8.5	4.7	-163.81	-24.3	-107.1	403.8	393.2	10.59	38.135			
2,100.0	2,049.7	2,057.1	2,052.8	9.0	5.0	-163.74	-23.7	-114.3	426.9	415.8	11.15	38.272			
2,200.0	2,146.6	2,154.4	2,149.8	9.5	5.2	-163.69	-23.1	-121.5	450.0	438.3	11.72	38.393			
2,300.0	2,243.5	2,251.7	2,246.8	10.0	5.5	-163.63	-22.6	-128.6	473.1	460.8	12.29	38.500			
2,400.0	2,340.4	2,349.0	2,343.8	10.5	5.7	-163.58	-22.0	-135.8	496.2	483.3	12.85	38.597			
2,500.0	2,437.3	2,446.3	2,440.9	11.0	6.0	-163.54	-21.4	-143.0	519.2	505.8	13.42	38.685			
2,600.0	2,534.2	2,543.6	2,537.9	11.5	6.2	-163.50	-20.8	-150.2	542.3	528.3	13.99	38.765			
2,700.0	2,631.1	2,640.9	2,634.9	12.0	6.5	-163.46	-20.2	-157.4	565.4	550.8	14.56	38.838			
2,800.0	2,728.0	2,738.2	2,732.0	12.6	6.8	-163.43	-19.6	-164.6	588.5	573.4	15.13	38.906			
2,900.0	2,824.9	2,835.5	2,829.0	13.1	7.0	-163.40	-19.0	-171.8	611.6	595.9	15.69	38.969			
3,000.0	2,921.8	2,932.8	2,926.0	13.6	7.3	-163.37	-18.4	-179.0	634.6	618.4	16.26	39.028			
3,100.0	3,018.7	3,030.1	3,023.1	14.1	7.5	-163.34	-17.8	-186.2	657.7	640.9	16.83	39.083			
3,200.0	3,115.6	3,127.4	3,120.1	14.6	7.8	-163.31	-17.2	-193.3	680.8	663.4	17.40	39.135			
3,300.0	3,212.5	3,224.7	3,217.1	15.1	8.0	-163.29	-16.6	-200.5	703.9	685.9	17.96	39.184			
3,400.0	3,309.4	3,322.0	3,314.2	15.6	8.3	-163.27	-16.1	-207.7	727.0	708.4	18.53	39.231			
3,500.0	3,406.3	3,419.3	3,411.2	16.1	8.6	-163.25	-15.5	-214.9	750.1	731.0	19.10	39.276			
3,600.0	3,503.2	3,516.6	3,508.2	16.6	8.8	-163.23	-14.9	-222.1	773.1	753.5	19.66	39.318			
3,700.0	3,600.1	3,613.9	3,605.3	17.1	9.1	-163.21	-14.3	-229.3	796.2	776.0	20.23	39.359			
3,800.0	3,697.0	3,711.2	3,702.3	17.6	9.3	-163.19	-13.7	-236.5	819.3	798.5	20.80	39.398			
3,900.0	3,793.9	3,808.5	3,799.3	18.1	9.6	-163.18	-13.1	-243.7	842.4	821.0	21.36	39.436			
4,000.0	3,890.8	3,905.8	3,896.3	18.7	9.8	-163.16	-12.5	-250.9	865.5	843.6	21.93	39.473			
4,100.0	3,987.7	4,003.1	3,993.4	19.2	10.1	-163.15	-11.9	-258.1	888.6	866.1	22.49	39.508			
4,200.0	4,084.6	4,100.4	4,090.4	19.7	10.3	-163.13	-11.3	-265.2	911.6	888.6	23.05	39.543			
4,300.0	4,181.5	4,197.7	4,187.4	20.2	10.6	-163.12	-10.7	-272.4	934.7	911.1	23.62	39.577			
4,400.0	4,278.4	4,295.0	4,284.5	20.7	10.9	-163.11	-10.2	-279.6	957.8	933.6	24.18	39.609			
4,500.0	4,375.3	4,392.3	4,381.5	21.2	11.1	-163.09	-9.6	-286.8	980.9	956.1	24.74	39.641			
4,600.0	4,472.2	4,489.6	4,478.5	21.7	11.4	-163.08	-9.0	-294.0	1,004.0	978.7	25.31	39.673			
4,700.0	4,569.1	4,586.9	4,575.6	22.2	11.6	-163.07	-8.4	-301.2	1,027.1	1,001.2	25.87	39.703			
4,800.0	4,666.0	4,684.2	4,672.6	22.7	11.9	-163.06	-7.8	-308.4	1,050.1	1,023.7	26.43	39.733			
4,900.0	4,762.9	4,781.5	4,769.6	23.2	12.1	-163.05	-7.2	-315.6	1,073.2	1,046.2	26.99	39.763			
5,000.0	4,859.8	4,878.8	4,866.7	23.7	12.4	-163.04	-6.6	-322.8	1,096.3	1,068.8	27.55	39.792			

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

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 41B-2
Project:	Garfield County, CO	TVD Reference:	KB=22' @ 8499.0usft
Reference Site:	S2-T7S-R97W (Puckett Pad)	MD Reference:	KB=22' @ 8499.0usft
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 41B-2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 41B-2
Project:	Garfield County, CO	TVD Reference:	KB=22' @ 8499.0usft
Reference Site:	S2-T7S-R97W (Puckett Pad)	MD Reference:	KB=22' @ 8499.0usft
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 41B-2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S2-T7S-R97W (Puckett Pad) - PUCKETT 42D-2 - DD - 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		
0.0	0.0	0.0	0.0	0.0	0.0	168.94	-40.4	7.9	41.2					
100.0	100.0	100.0	100.0	0.1	0.1	168.94	-40.4	7.9	41.2	41.0	0.18	234.973	CC	
138.9	138.9	138.9	138.9	0.2	0.2	-174.46	-40.4	7.9	41.4	41.0	0.36	115.412		
200.0	200.0	200.0	200.0	0.3	0.3	-174.49	-40.4	7.9	41.6	41.0	0.65	63.818	ES	
300.0	299.9	299.9	299.9	0.6	0.5	-175.04	-40.4	7.9	46.3	45.0	1.25	36.899		
400.0	399.4	398.7	398.7	0.8	0.7	-174.49	-41.1	6.7	56.6	54.7	1.87	30.214		
500.0	498.2	496.2	496.0	1.1	1.0	-170.86	-44.1	1.2	73.7	71.2	2.50	29.433	SF	
600.0	596.1	593.4	592.8	1.5	1.2	-168.00	-48.0	-6.0	96.8	93.6	3.14	30.807		
700.0	693.1	689.6	688.7	2.0	1.4	-166.72	-51.9	-13.1	123.9	120.3	3.65	33.967		
800.0	790.0	785.8	784.5	2.5	1.7	-165.98	-55.8	-20.2	151.5	147.4	4.11	36.871		
900.0	886.9	881.9	880.3	2.9	1.9	-165.47	-59.6	-27.2	179.0	174.4	4.59	38.956		
1,000.0	983.8	978.0	976.1	3.4	2.2	-165.09	-63.5	-34.3	206.5	201.4	5.10	40.485		
1,100.0	1,080.7	1,074.1	1,071.9	3.9	2.4	-164.81	-67.4	-41.4	234.1	228.5	5.62	41.632		
1,200.0	1,177.6	1,170.3	1,167.6	4.4	2.7	-164.58	-71.3	-48.5	261.6	255.5	6.15	42.511		
1,300.0	1,274.5	1,266.4	1,263.4	4.9	3.0	-164.40	-75.1	-55.6	289.2	282.5	6.70	43.196		
1,400.0	1,371.4	1,362.5	1,359.2	5.5	3.2	-164.24	-79.0	-62.7	316.8	309.5	7.24	43.747		
1,500.0	1,468.3	1,458.6	1,455.0	6.0	3.5	-164.12	-82.9	-69.8	344.3	336.5	7.79	44.193		
1,600.0	1,565.2	1,554.8	1,550.8	6.5	3.8	-164.01	-86.8	-76.9	371.9	363.5	8.35	44.562		
1,700.0	1,662.1	1,650.9	1,646.6	7.0	4.0	-163.91	-90.6	-84.0	399.4	390.5	8.90	44.870		
1,800.0	1,759.0	1,747.0	1,742.3	7.5	4.3	-163.83	-94.5	-91.1	427.0	417.5	9.46	45.132		
1,900.0	1,855.9	1,843.1	1,838.1	8.0	4.5	-163.76	-98.4	-98.1	454.6	444.6	10.02	45.357		
2,000.0	1,952.8	1,939.2	1,933.9	8.5	4.8	-163.70	-102.2	-105.2	482.1	471.6	10.58	45.552		
2,100.0	2,049.7	2,035.4	2,029.7	9.0	5.1	-163.64	-106.1	-112.3	509.7	498.6	11.15	45.724		
2,200.0	2,146.6	2,131.5	2,125.5	9.5	5.3	-163.59	-110.0	-119.4	537.3	525.6	11.71	45.876		
2,300.0	2,243.5	2,227.6	2,221.3	10.0	5.6	-163.55	-113.9	-126.5	564.8	552.6	12.28	46.012		
2,400.0	2,340.4	2,323.7	2,317.1	10.5	5.9	-163.50	-117.7	-133.6	592.4	579.6	12.84	46.134		
2,500.0	2,437.3	2,419.9	2,412.8	11.0	6.1	-163.47	-121.6	-140.7	620.0	606.6	13.41	46.246		
2,600.0	2,534.2	2,516.0	2,508.6	11.5	6.4	-163.43	-125.5	-147.8	647.5	633.6	13.97	46.347		
2,700.0	2,631.1	2,612.1	2,604.4	12.0	6.7	-163.40	-129.4	-154.9	675.1	660.6	14.54	46.441		
2,800.0	2,728.0	2,708.2	2,700.2	12.6	6.9	-163.37	-133.2	-162.0	702.7	687.6	15.10	46.528		
2,900.0	2,824.9	2,804.4	2,796.0	13.1	7.2	-163.34	-137.1	-169.0	730.2	714.6	15.67	46.609		
3,000.0	2,921.8	2,900.5	2,891.8	13.6	7.5	-163.32	-141.0	-176.1	757.8	741.6	16.23	46.684		
3,100.0	3,018.7	2,996.6	2,987.5	14.1	7.7	-163.29	-144.9	-183.2	785.4	768.6	16.80	46.756		
3,200.0	3,115.6	3,092.7	3,083.3	14.6	8.0	-163.27	-148.7	-190.3	813.0	795.6	17.36	46.823		
3,300.0	3,212.5	3,188.9	3,179.1	15.1	8.3	-163.25	-152.6	-197.4	840.5	822.6	17.93	46.887		
3,400.0	3,309.4	3,285.0	3,274.9	15.6	8.5	-163.23	-156.5	-204.5	868.1	849.6	18.49	46.947		
3,500.0	3,406.3	3,381.1	3,370.7	16.1	8.8	-163.22	-160.4	-211.6	895.7	876.6	19.05	47.006		
3,600.0	3,503.2	3,477.2	3,466.5	16.6	9.1	-163.20	-164.2	-218.7	923.2	903.6	19.62	47.061		
3,700.0	3,600.1	3,573.4	3,562.2	17.1	9.3	-163.18	-168.1	-225.8	950.8	930.6	20.18	47.115		
3,800.0	3,697.0	3,669.5	3,658.0	17.6	9.6	-163.17	-172.0	-232.9	978.4	957.6	20.74	47.166		
3,900.0	3,793.9	3,765.6	3,753.8	18.1	9.9	-163.15	-175.9	-239.9	1,005.9	984.6	21.30	47.216		
4,000.0	3,890.8	3,861.7	3,849.6	18.7	10.1	-163.14	-179.7	-247.0	1,033.5	1,011.6	21.87	47.265		
4,100.0	3,987.7	3,957.9	3,945.4	19.2	10.4	-163.13	-183.6	-254.1	1,061.1	1,038.6	22.43	47.312		
4,200.0	4,084.6	4,054.0	4,041.2	19.7	10.7	-163.12	-187.5	-261.2	1,088.6	1,065.7	22.99	47.358		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 41B-2
Project:	Garfield County, CO	TVD Reference:	KB=22' @ 8499.0usft
Reference Site:	S2-T7S-R97W (Puckett Pad)	MD Reference:	KB=22' @ 8499.0usft
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 41B-2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S2-T7S-R97W (Puckett Pad) - PUCKETT 43A-2 - DD - 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		
0.0	0.0	0.0	0.0	0.0	0.0	167.01	-47.7	11.0	49.0					
100.0	100.0	100.0	100.0	0.1	0.1	167.01	-47.7	11.0	49.0	48.8	0.18	279.309	CC	
138.9	138.9	138.9	138.9	0.2	0.2	-176.38	-47.7	11.0	49.1	48.8	0.36	137.094		
200.0	200.0	200.0	200.0	0.3	0.3	-176.40	-47.7	11.0	49.4	48.7	0.65	75.725	ES	
300.0	299.9	299.5	299.5	0.6	0.5	-176.57	-47.8	10.9	54.2	52.9	1.25	43.277		
400.0	399.4	396.8	396.7	0.8	0.7	-174.43	-50.7	8.5	66.4	64.5	1.87	35.529		
500.0	498.2	492.8	492.4	1.1	0.9	-170.79	-57.1	2.9	87.0	84.5	2.53	34.472	SF	
600.0	596.1	588.1	587.0	1.5	1.2	-168.05	-65.4	-4.1	114.6	111.4	3.18	36.016		
700.0	693.1	682.9	681.2	2.0	1.5	-166.77	-73.6	-11.1	146.1	142.5	3.69	39.607		
800.0	790.0	777.7	775.3	2.5	1.8	-166.03	-81.8	-18.1	178.1	173.9	4.15	42.922		
900.0	886.9	872.4	869.5	2.9	2.0	-165.51	-90.0	-25.1	210.0	205.4	4.64	45.306		
1,000.0	983.8	967.2	963.6	3.4	2.3	-165.13	-98.2	-32.1	242.0	236.8	5.14	47.055		
1,100.0	1,080.7	1,061.9	1,057.7	3.9	2.6	-164.83	-106.4	-39.1	274.0	268.3	5.66	48.371		
1,200.0	1,177.6	1,156.6	1,151.9	4.4	2.9	-164.60	-114.6	-46.1	305.9	299.7	6.20	49.354		
1,300.0	1,274.5	1,251.4	1,246.0	4.9	3.2	-164.41	-122.8	-53.1	337.9	331.2	6.74	50.156		
1,400.0	1,371.4	1,346.1	1,340.1	5.5	3.5	-164.26	-131.0	-60.1	369.9	362.6	7.28	50.786		
1,500.0	1,468.3	1,440.9	1,434.2	6.0	3.8	-164.13	-139.2	-67.1	401.9	394.0	7.83	51.297		
1,600.0	1,565.2	1,535.6	1,528.4	6.5	4.1	-164.02	-147.4	-74.1	433.9	425.5	8.39	51.718		
1,700.0	1,662.1	1,630.4	1,622.5	7.0	4.4	-163.92	-155.6	-81.1	465.8	456.9	8.95	52.071		
1,800.0	1,759.0	1,725.1	1,716.6	7.5	4.7	-163.84	-163.8	-88.1	497.8	488.3	9.51	52.371		
1,900.0	1,855.9	1,819.9	1,810.8	8.0	5.0	-163.76	-172.0	-95.1	529.8	519.7	10.07	52.629		
2,000.0	1,952.8	1,914.6	1,904.9	8.5	5.3	-163.70	-180.2	-102.1	561.8	551.2	10.63	52.852		
2,100.0	2,049.7	2,009.3	1,999.0	9.0	5.6	-163.64	-188.4	-109.1	593.8	582.6	11.19	53.049		
2,200.0	2,146.6	2,104.1	2,093.1	9.5	5.9	-163.59	-196.6	-116.2	625.8	614.0	11.76	53.224		
2,300.0	2,243.5	2,198.8	2,187.3	10.0	6.2	-163.54	-204.8	-123.2	657.8	645.4	12.32	53.380		
2,400.0	2,340.4	2,293.6	2,281.4	10.5	6.5	-163.50	-213.0	-130.2	689.8	676.9	12.89	53.521		
2,500.0	2,437.3	2,388.3	2,375.5	11.0	6.8	-163.46	-221.2	-137.2	721.7	708.3	13.45	53.649		
2,600.0	2,534.2	2,483.1	2,469.7	11.5	7.1	-163.42	-229.4	-144.2	753.7	739.7	14.02	53.767		
2,700.0	2,631.1	2,577.8	2,563.8	12.0	7.4	-163.39	-237.6	-151.2	785.7	771.1	14.58	53.876		
2,800.0	2,728.0	2,672.5	2,657.9	12.6	7.7	-163.36	-245.8	-158.2	817.7	802.6	15.15	53.977		
2,900.0	2,824.9	2,767.3	2,752.0	13.1	7.9	-163.33	-254.0	-165.2	849.7	834.0	15.71	54.071		
3,000.0	2,921.8	2,862.0	2,846.2	13.6	8.2	-163.30	-262.2	-172.2	881.7	865.4	16.28	54.159		
3,100.0	3,018.7	2,956.8	2,940.3	14.1	8.5	-163.28	-270.4	-179.2	913.7	896.8	16.84	54.243		
3,200.0	3,115.6	3,051.5	3,034.4	14.6	8.8	-163.26	-278.6	-186.2	945.7	928.3	17.41	54.321		
3,300.0	3,212.5	3,146.3	3,128.6	15.1	9.1	-163.24	-286.8	-193.2	977.7	959.7	17.97	54.397		
3,400.0	3,309.4	3,241.0	3,222.7	15.6	9.4	-163.22	-295.0	-200.2	1,009.7	991.1	18.54	54.468		
3,500.0	3,406.3	3,335.8	3,316.8	16.1	9.7	-163.20	-303.2	-207.2	1,041.7	1,022.6	19.10	54.537		
3,600.0	3,503.2	3,430.5	3,410.9	16.6	10.0	-163.18	-311.4	-214.2	1,073.6	1,054.0	19.66	54.603		
3,700.0	3,600.1	3,525.2	3,505.1	17.1	10.3	-163.17	-319.6	-221.2	1,105.6	1,085.4	20.22	54.667		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 41B-2
Project:	Garfield County, CO	TVD Reference:	KB=22' @ 8499.0usft
Reference Site:	S2-T7S-R97W (Puckett Pad)	MD Reference:	KB=22' @ 8499.0usft
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 41B-2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S2-T7S-R97W (Puckett Pad) - PUCKETT 43B-2 - DD - 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							
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	
0.0	0.0	0.0	0.0	0.0	0.0	165.79	-55.7	14.1	57.5					
100.0	100.0	100.0	100.0	0.1	0.1	165.79	-55.7	14.1	57.5	57.3	0.18	327.876	CC	
138.9	138.9	138.9	138.9	0.2	0.2	-177.60	-55.7	14.1	57.6	57.3	0.36	160.850		
200.0	200.0	200.0	200.0	0.3	0.3	-177.61	-55.7	14.1	57.9	57.2	0.65	88.774	ES	
300.0	299.9	298.1	298.1	0.6	0.5	-176.90	-56.9	13.4	63.7	62.4	1.25	50.975		
400.0	399.4	394.3	394.1	0.8	0.7	-174.18	-62.3	10.5	78.3	76.4	1.89	41.446		
500.0	498.2	487.8	487.0	1.1	1.0	-170.96	-71.5	5.3	102.0	99.4	2.56	39.893	SF	
600.0	596.1	581.3	579.4	1.5	1.3	-168.32	-83.7	-1.5	133.7	130.5	3.23	41.372		
700.0	693.1	674.5	671.6	2.0	1.6	-166.99	-96.0	-8.5	169.6	165.9	3.74	45.343		
800.0	790.0	767.7	763.7	2.5	1.9	-166.21	-108.4	-15.4	205.9	201.7	4.20	49.033		
900.0	886.9	860.9	855.7	2.9	2.2	-165.66	-120.7	-22.3	242.2	237.5	4.69	51.686		
1,000.0	983.8	954.0	947.8	3.4	2.6	-165.26	-133.1	-29.2	278.5	273.3	5.19	53.632		
1,100.0	1,080.7	1,047.2	1,039.9	3.9	2.9	-164.94	-145.4	-36.1	314.8	309.1	5.71	55.116		
1,200.0	1,177.6	1,140.4	1,132.0	4.4	3.2	-164.69	-157.8	-43.0	351.1	344.8	6.25	56.181		
1,300.0	1,274.5	1,233.5	1,224.1	4.9	3.6	-164.49	-170.1	-49.9	387.4	380.6	6.79	57.059		
1,400.0	1,371.4	1,326.7	1,316.2	5.5	3.9	-164.33	-182.5	-56.8	423.7	416.4	7.34	57.752		
1,500.0	1,468.3	1,419.8	1,408.2	6.0	4.2	-164.19	-194.8	-63.7	460.1	452.2	7.89	58.312		
1,600.0	1,565.2	1,513.0	1,500.3	6.5	4.6	-164.07	-207.2	-70.6	496.4	488.0	8.45	58.773		
1,700.0	1,662.1	1,606.2	1,592.4	7.0	4.9	-163.96	-219.5	-77.6	532.7	523.7	9.01	59.158		
1,800.0	1,759.0	1,699.3	1,684.5	7.5	5.3	-163.87	-231.9	-84.5	569.1	559.5	9.57	59.484		
1,900.0	1,855.9	1,792.5	1,776.6	8.0	5.6	-163.79	-244.2	-91.4	605.4	595.3	10.13	59.763		
2,000.0	1,952.8	1,885.7	1,868.6	8.5	5.9	-163.72	-256.6	-98.3	641.7	631.0	10.69	60.006		
2,100.0	2,049.7	1,978.8	1,960.7	9.0	6.3	-163.66	-268.9	-105.2	678.1	666.8	11.26	60.219		
2,200.0	2,146.6	2,072.0	2,052.8	9.5	6.6	-163.60	-281.3	-112.1	714.4	702.6	11.83	60.408		
2,300.0	2,243.5	2,165.1	2,144.9	10.0	7.0	-163.55	-293.6	-119.0	750.7	738.4	12.39	60.577		
2,400.0	2,340.4	2,258.3	2,237.0	10.5	7.3	-163.51	-306.0	-125.9	787.1	774.1	12.96	60.729		
2,500.0	2,437.3	2,351.5	2,329.0	11.0	7.7	-163.46	-318.3	-132.8	823.4	809.9	13.53	60.868		
2,600.0	2,534.2	2,444.6	2,421.1	11.5	8.0	-163.42	-330.6	-139.8	859.8	845.7	14.10	60.996		
2,700.0	2,631.1	2,537.8	2,513.2	12.0	8.3	-163.39	-343.0	-146.7	896.1	881.4	14.66	61.113		
2,800.0	2,728.0	2,631.0	2,605.3	12.6	8.7	-163.36	-355.3	-153.6	932.4	917.2	15.23	61.223		
2,900.0	2,824.9	2,724.1	2,697.4	13.1	9.0	-163.33	-367.7	-160.5	968.8	953.0	15.80	61.325		
3,000.0	2,921.8	2,817.3	2,789.5	13.6	9.4	-163.30	-380.0	-167.4	1,005.1	988.8	16.36	61.421		
3,100.0	3,018.7	2,910.4	2,881.5	14.1	9.7	-163.27	-392.4	-174.3	1,041.5	1,024.5	16.93	61.512		
3,200.0	3,115.6	3,003.6	2,973.6	14.6	10.1	-163.25	-404.7	-181.2	1,077.8	1,060.3	17.50	61.598		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 41B-2
Project:	Garfield County, CO	TVD Reference:	KB=22' @ 8499.0usft
Reference Site:	S2-T7S-R97W (Puckett Pad)	MD Reference:	KB=22' @ 8499.0usft
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 41B-2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB=22' @ 8499.0usft

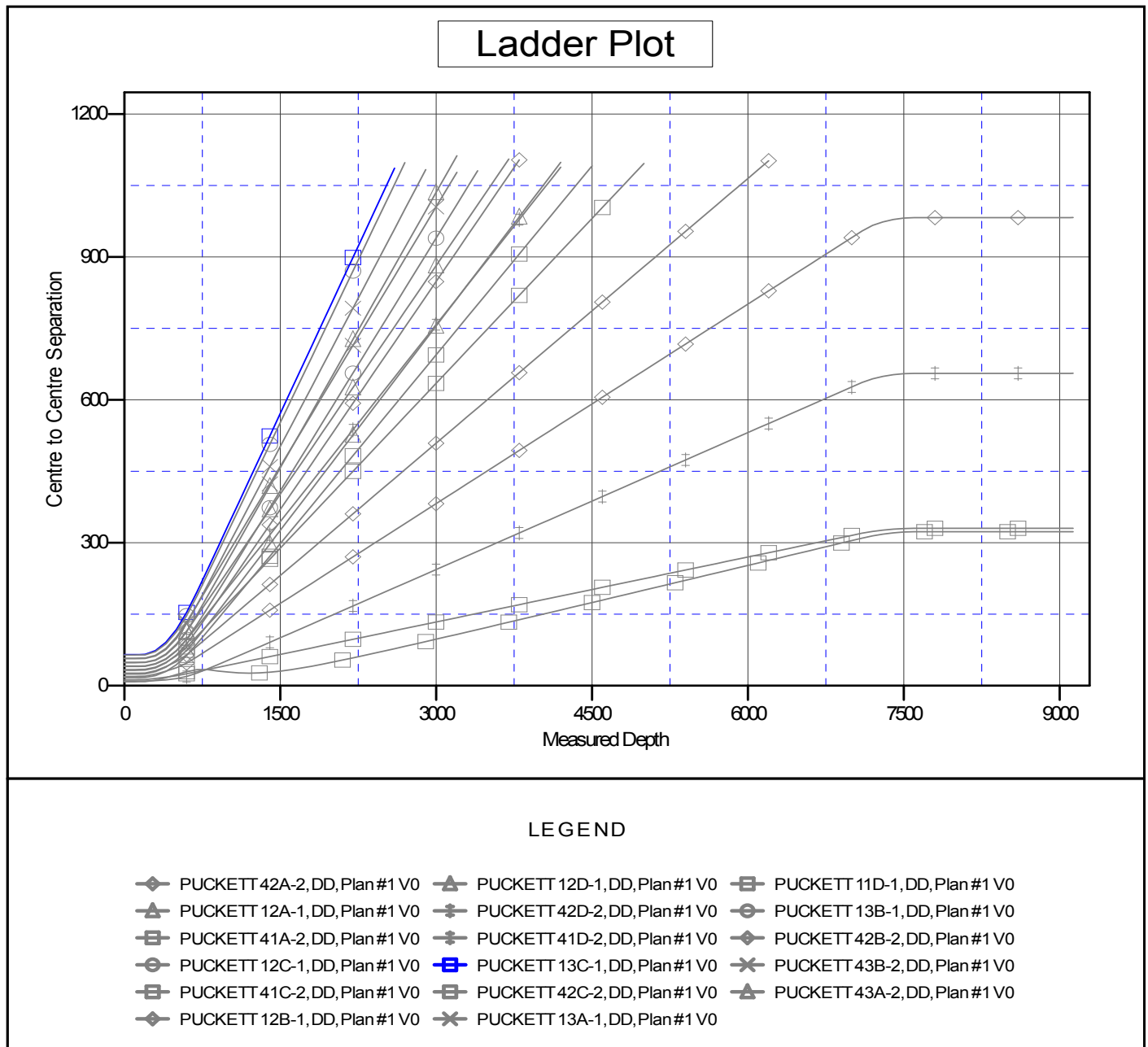
Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

Coordinates are relative to: PUCKETT 41B-2

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

Grid Convergence at Surface is: -1.69°



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