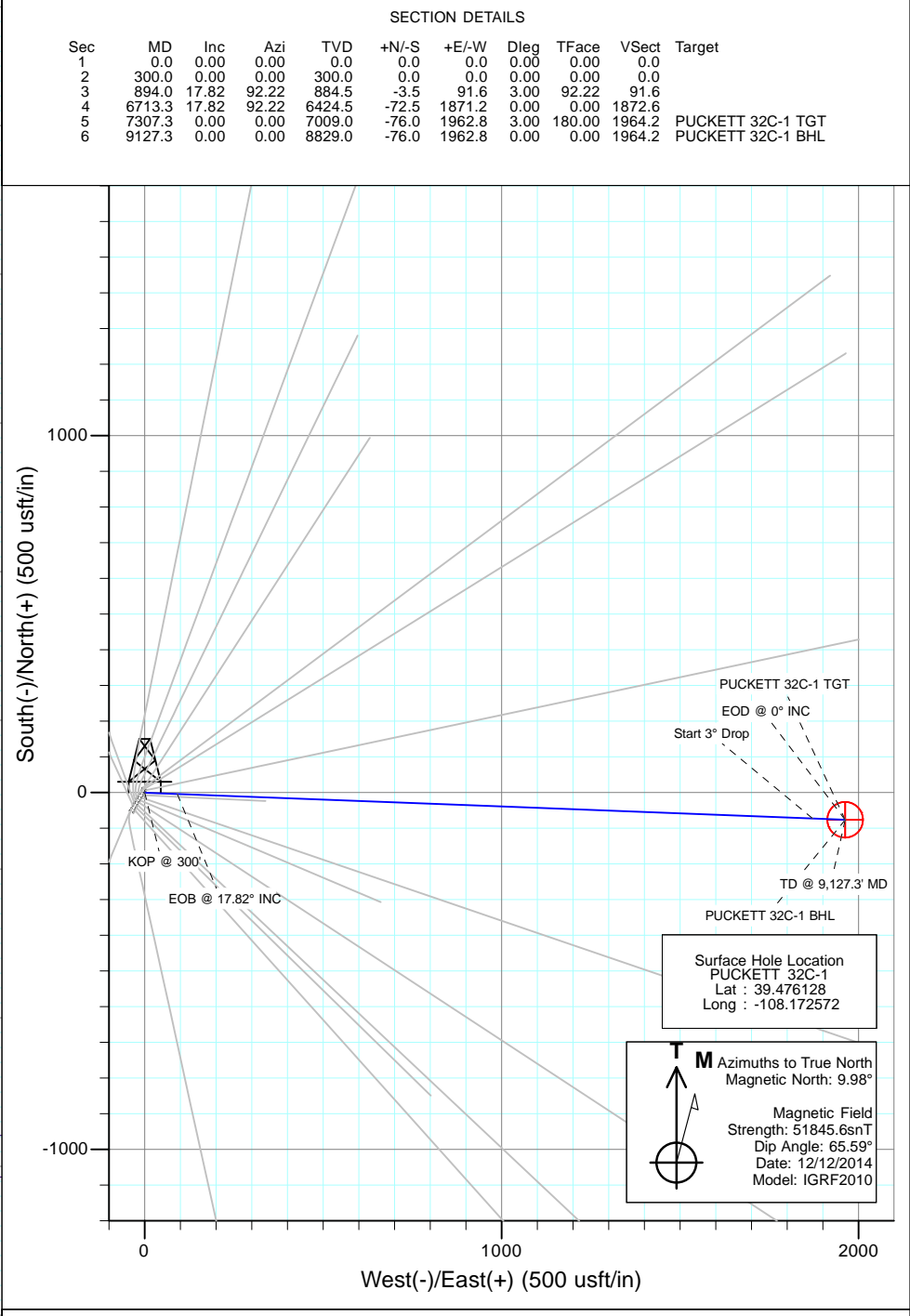
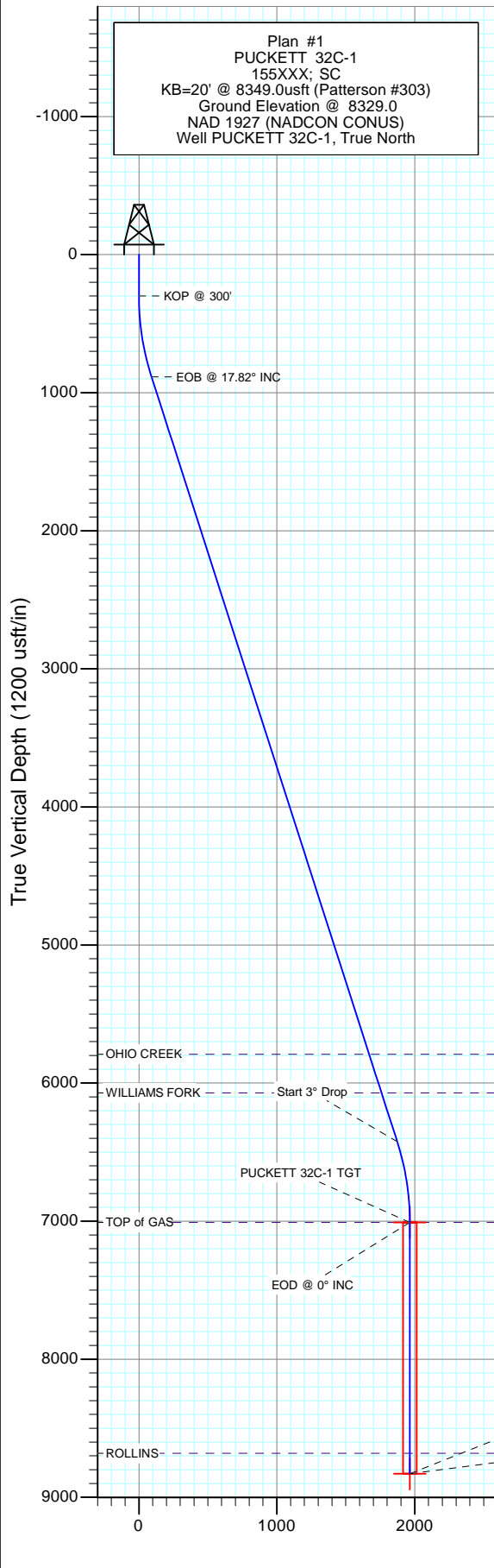


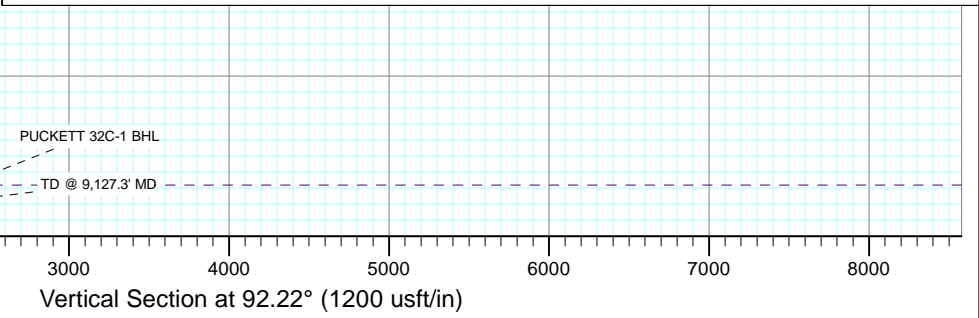


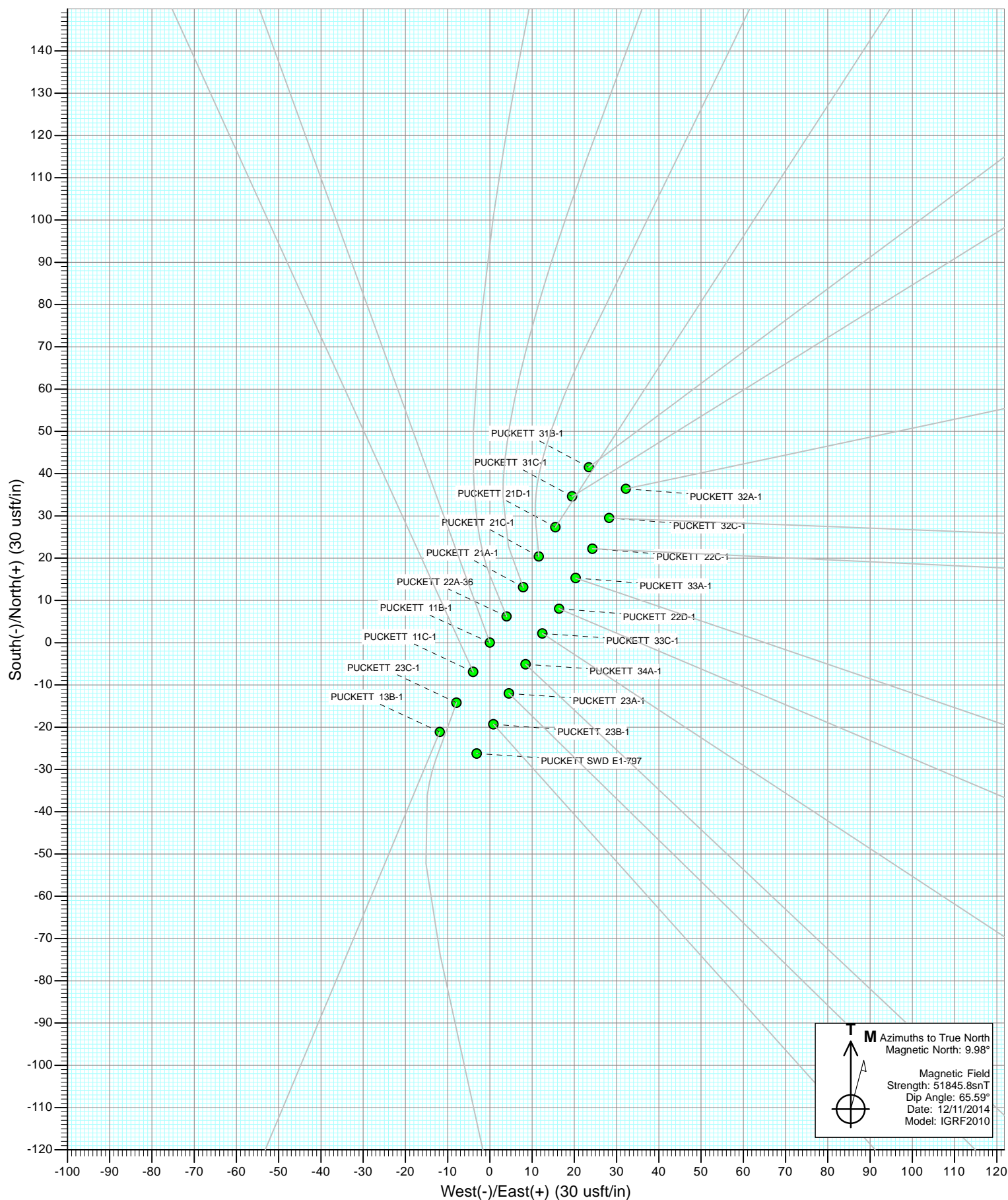
Project: Garfield County, CO
Site: S1-T7S-R9W (Mesa E1 797)
Well: PUCKETT 32C-1
Wellbore: DD
Design: Plan #1

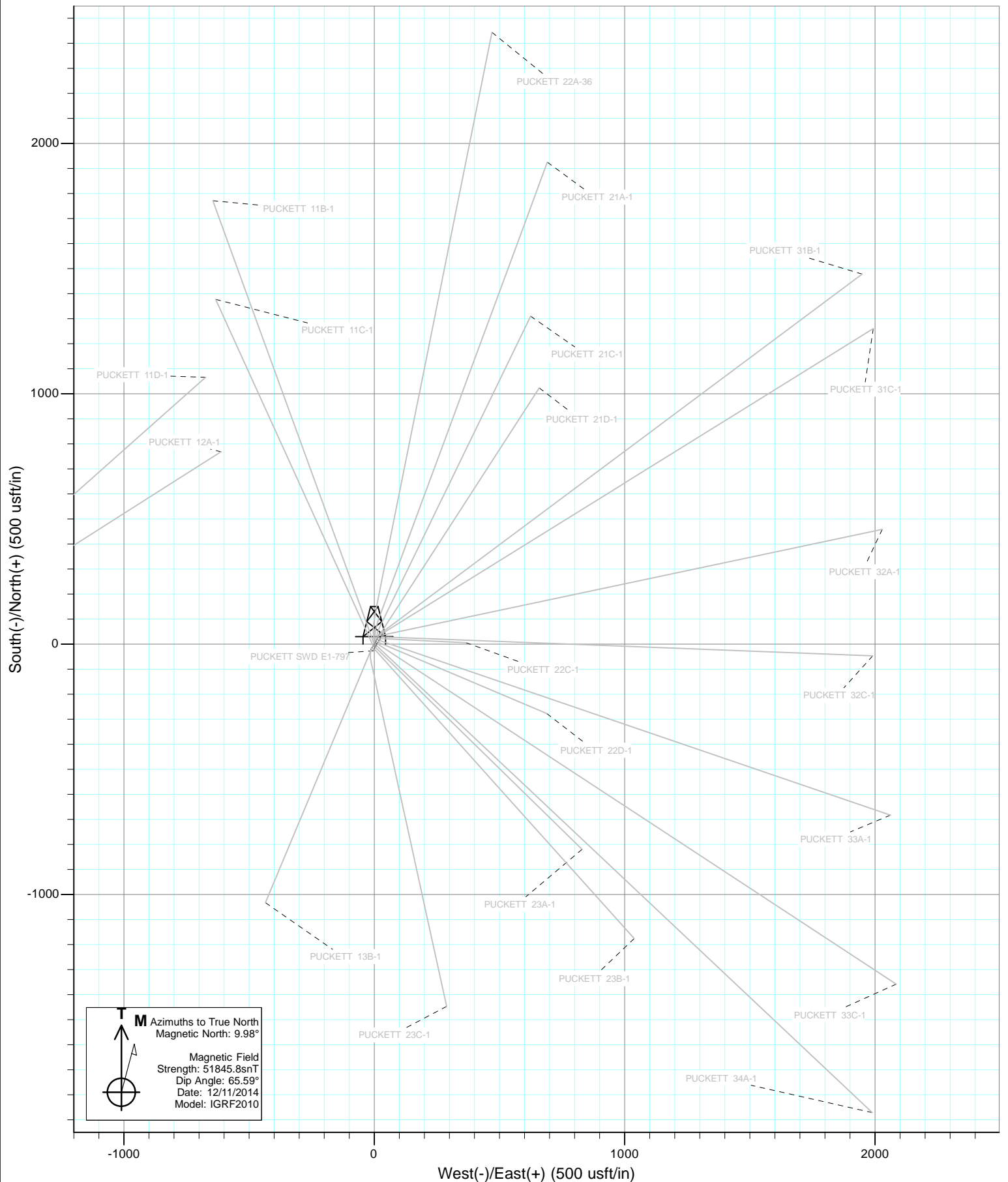


DESIGN TARGET DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PUCKETT 32C-1 TGT	-76.0	1962.8	609259.18	1247634.90	39.475919	-108.165619
PUCKETT 32C-1 BHL	-76.0	1962.8	609259.18	1247634.90	39.475919	-108.165619

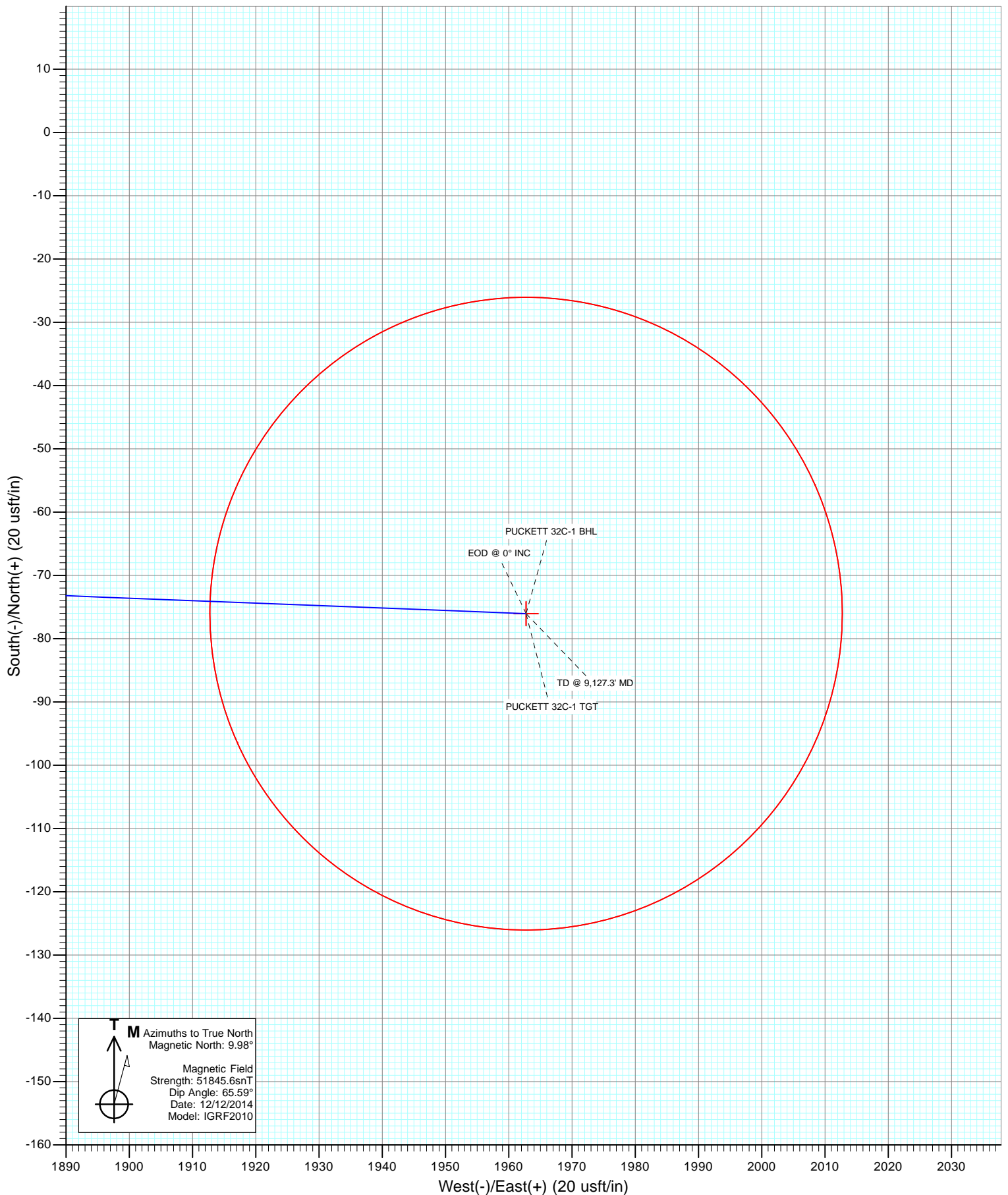








Project: Garfield County, CO
Site: S1-T7S-R97W (Mesa E1 797)
Well: PUCKETT 32C-1
Wellbore: DD
Design: Plan #1



Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well PUCKETT 32C-1
Company:	Caerus Oil & Gas (NAD 27)	TVD Reference:	KB=20' @ 8349.0usft (Patterson #303)
Project:	Garfield County, CO	MD Reference:	KB=20' @ 8349.0usft (Patterson #303)
Site:	S1-T7S-R97W (Mesa E1 797)	North Reference:	True
Well:	PUCKETT 32C-1	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #1		

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		S1-T7S-R97W (Mesa E1 797)			
Site Position:		Northing:	609,370.34 usft	Latitude:	39.476064
From:	Lat/Long	Easting:	1,245,650.28 usft	Longitude:	-108.172658
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"	Grid Convergence:	-1.69 °

Well	PUCKETT 32C-1					
Well Position	+N/-S	0.0 usft	Northing:	609,392.91 usft	Latitude:	39.476128
	+E/-W	0.0 usft	Easting:	1,245,675.24 usft	Longitude:	-108.172572
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	8,329.0 usft

Wellbore	DD				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/12/2014	9.98	65.59	51,846

Design	Plan #1				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	92.22	

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.00	0.00	
894.0	17.82	92.22	884.5	-3.5	91.6	3.00	3.00	0.00	92.22	
6,713.3	17.82	92.22	6,424.5	-72.5	1,871.2	0.00	0.00	0.00	0.00	
7,307.3	0.00	0.00	7,009.0	-76.0	1,962.8	3.00	-3.00	0.00	180.00	PUCKETT 32C-1 TG1
9,127.3	0.00	0.00	8,829.0	-76.0	1,962.8	0.00	0.00	0.00	0.00	PUCKETT 32C-1 BHL

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well PUCKETT 32C-1
Company:	Caerus Oil & Gas (NAD 27)	TVD Reference:	KB=20' @ 8349.0usft (Patterson #303)
Project:	Garfield County, CO	MD Reference:	KB=20' @ 8349.0usft (Patterson #303)
Site:	S1-T7S-R97W (Mesa E1 797)	North Reference:	True
Well:	PUCKETT 32C-1	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100u)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	KOP @ 300'
400.0	3.00	92.22	400.0	-0.1	2.6	2.6	3.00	3.00	
500.0	6.00	92.22	499.6	-0.4	10.5	10.5	3.00	3.00	
600.0	9.00	92.22	598.8	-0.9	23.5	23.5	3.00	3.00	
700.0	12.00	92.22	697.1	-1.6	41.7	41.7	3.00	3.00	
800.0	15.00	92.22	794.3	-2.5	65.0	65.1	3.00	3.00	
894.0	17.82	92.22	884.5	-3.5	91.6	91.6	3.00	3.00	EOB @ 17.82° INC
900.0	17.82	92.22	890.2	-3.6	93.4	93.5	0.00	0.00	
1,000.0	17.82	92.22	985.4	-4.8	124.0	124.1	0.00	0.00	
1,100.0	17.82	92.22	1,080.6	-6.0	154.6	154.7	0.00	0.00	
1,200.0	17.82	92.22	1,175.8	-7.2	185.1	185.3	0.00	0.00	
1,300.0	17.82	92.22	1,271.0	-8.4	215.7	215.9	0.00	0.00	
1,400.0	17.82	92.22	1,366.2	-9.5	246.3	246.5	0.00	0.00	
1,500.0	17.82	92.22	1,461.4	-10.7	276.9	277.1	0.00	0.00	
1,600.0	17.82	92.22	1,556.6	-11.9	307.5	307.7	0.00	0.00	
1,700.0	17.82	92.22	1,651.8	-13.1	338.0	338.3	0.00	0.00	
1,800.0	17.82	92.22	1,747.0	-14.3	368.6	368.9	0.00	0.00	
1,900.0	17.82	92.22	1,842.2	-15.5	399.2	399.5	0.00	0.00	
2,000.0	17.82	92.22	1,937.4	-16.6	429.8	430.1	0.00	0.00	
2,100.0	17.82	92.22	2,032.6	-17.8	460.4	460.7	0.00	0.00	
2,200.0	17.82	92.22	2,127.8	-19.0	491.0	491.3	0.00	0.00	
2,300.0	17.82	92.22	2,223.0	-20.2	521.5	521.9	0.00	0.00	
2,400.0	17.82	92.22	2,318.2	-21.4	552.1	552.5	0.00	0.00	
2,500.0	17.82	92.22	2,413.4	-22.6	582.7	583.1	0.00	0.00	
2,600.0	17.82	92.22	2,508.6	-23.8	613.3	613.7	0.00	0.00	
2,700.0	17.82	92.22	2,603.8	-24.9	643.9	644.3	0.00	0.00	
2,800.0	17.82	92.22	2,699.0	-26.1	674.4	675.0	0.00	0.00	
2,900.0	17.82	92.22	2,794.2	-27.3	705.0	705.6	0.00	0.00	
3,000.0	17.82	92.22	2,889.4	-28.5	735.6	736.2	0.00	0.00	
3,100.0	17.82	92.22	2,984.6	-29.7	766.2	766.8	0.00	0.00	
3,200.0	17.82	92.22	3,079.8	-30.9	796.8	797.4	0.00	0.00	
3,300.0	17.82	92.22	3,175.0	-32.0	827.4	828.0	0.00	0.00	
3,400.0	17.82	92.22	3,270.2	-33.2	857.9	858.6	0.00	0.00	
3,500.0	17.82	92.22	3,365.4	-34.4	888.5	889.2	0.00	0.00	
3,600.0	17.82	92.22	3,460.6	-35.6	919.1	919.8	0.00	0.00	
3,700.0	17.82	92.22	3,555.8	-36.8	949.7	950.4	0.00	0.00	
3,800.0	17.82	92.22	3,651.0	-38.0	980.3	981.0	0.00	0.00	
3,900.0	17.82	92.22	3,746.2	-39.2	1,010.8	1,011.6	0.00	0.00	
4,000.0	17.82	92.22	3,841.4	-40.3	1,041.4	1,042.2	0.00	0.00	
4,100.0	17.82	92.22	3,936.6	-41.5	1,072.0	1,072.8	0.00	0.00	
4,200.0	17.82	92.22	4,031.8	-42.7	1,102.6	1,103.4	0.00	0.00	
4,300.0	17.82	92.22	4,127.0	-43.9	1,133.2	1,134.0	0.00	0.00	
4,400.0	17.82	92.22	4,222.2	-45.1	1,163.8	1,164.6	0.00	0.00	
4,500.0	17.82	92.22	4,317.4	-46.3	1,194.3	1,195.2	0.00	0.00	
4,600.0	17.82	92.22	4,412.6	-47.4	1,224.9	1,225.8	0.00	0.00	
4,700.0	17.82	92.22	4,507.8	-48.6	1,255.5	1,256.4	0.00	0.00	
4,800.0	17.82	92.22	4,603.0	-49.8	1,286.1	1,287.0	0.00	0.00	
4,900.0	17.82	92.22	4,698.3	-51.0	1,316.7	1,317.6	0.00	0.00	
5,000.0	17.82	92.22	4,793.5	-52.2	1,347.2	1,348.3	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well PUCKETT 32C-1
Company:	Caerus Oil & Gas (NAD 27)	TVD Reference:	KB=20' @ 8349.0usft (Patterson #303)
Project:	Garfield County, CO	MD Reference:	KB=20' @ 8349.0usft (Patterson #303)
Site:	S1-T7S-R97W (Mesa E1 797)	North Reference:	True
Well:	PUCKETT 32C-1	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100u)	Comments / Formations
5,100.0	17.82	92.22	4,888.7	-53.4	1,377.8	1,378.9	0.00	0.00	
5,200.0	17.82	92.22	4,983.9	-54.6	1,408.4	1,409.5	0.00	0.00	
5,300.0	17.82	92.22	5,079.1	-55.7	1,439.0	1,440.1	0.00	0.00	
5,400.0	17.82	92.22	5,174.3	-56.9	1,469.6	1,470.7	0.00	0.00	
5,500.0	17.82	92.22	5,269.5	-58.1	1,500.1	1,501.3	0.00	0.00	
5,600.0	17.82	92.22	5,364.7	-59.3	1,530.7	1,531.9	0.00	0.00	
5,700.0	17.82	92.22	5,459.9	-60.5	1,561.3	1,562.5	0.00	0.00	
5,800.0	17.82	92.22	5,555.1	-61.7	1,591.9	1,593.1	0.00	0.00	
5,900.0	17.82	92.22	5,650.3	-62.8	1,622.5	1,623.7	0.00	0.00	
6,000.0	17.82	92.22	5,745.5	-64.0	1,653.1	1,654.3	0.00	0.00	
6,047.8	17.82	92.22	5,791.0	-64.6	1,667.7	1,668.9	0.00	0.00	OHIO CREEK
6,100.0	17.82	92.22	5,840.7	-65.2	1,683.6	1,684.9	0.00	0.00	
6,200.0	17.82	92.22	5,935.9	-66.4	1,714.2	1,715.5	0.00	0.00	
6,300.0	17.82	92.22	6,031.1	-67.6	1,744.8	1,746.1	0.00	0.00	
6,341.9	17.82	92.22	6,071.0	-68.1	1,757.6	1,758.9	0.00	0.00	WILLIAMS FORK
6,400.0	17.82	92.22	6,126.3	-68.8	1,775.4	1,776.7	0.00	0.00	
6,500.0	17.82	92.22	6,221.5	-70.0	1,806.0	1,807.3	0.00	0.00	
6,600.0	17.82	92.22	6,316.7	-71.1	1,836.5	1,837.9	0.00	0.00	
6,700.0	17.82	92.22	6,411.9	-72.3	1,867.1	1,868.5	0.00	0.00	
6,713.3	17.82	92.22	6,424.5	-72.5	1,871.2	1,872.6	0.00	0.00	Start 3° Drop
6,800.0	15.22	92.22	6,507.7	-73.4	1,895.8	1,897.2	3.00	-3.00	
6,900.0	12.22	92.22	6,604.8	-74.4	1,919.5	1,921.0	3.00	-3.00	
7,000.0	9.22	92.22	6,703.0	-75.1	1,938.1	1,939.6	3.00	-3.00	
7,100.0	6.22	92.22	6,802.1	-75.6	1,951.5	1,953.0	3.00	-3.00	
7,200.0	3.22	92.22	6,901.8	-75.9	1,959.7	1,961.2	3.00	-3.00	
7,307.3	0.00	0.00	7,009.0	-76.0	1,962.8	1,964.2	3.00	-3.00	EOD @ 0° INC - TOP of GAS
7,400.0	0.00	0.00	7,101.7	-76.0	1,962.8	1,964.2	0.00	0.00	
7,500.0	0.00	0.00	7,201.7	-76.0	1,962.8	1,964.2	0.00	0.00	
7,600.0	0.00	0.00	7,301.7	-76.0	1,962.8	1,964.2	0.00	0.00	
7,700.0	0.00	0.00	7,401.7	-76.0	1,962.8	1,964.2	0.00	0.00	
7,800.0	0.00	0.00	7,501.7	-76.0	1,962.8	1,964.2	0.00	0.00	
7,900.0	0.00	0.00	7,601.7	-76.0	1,962.8	1,964.2	0.00	0.00	
8,000.0	0.00	0.00	7,701.7	-76.0	1,962.8	1,964.2	0.00	0.00	
8,100.0	0.00	0.00	7,801.7	-76.0	1,962.8	1,964.2	0.00	0.00	
8,200.0	0.00	0.00	7,901.7	-76.0	1,962.8	1,964.2	0.00	0.00	
8,300.0	0.00	0.00	8,001.7	-76.0	1,962.8	1,964.2	0.00	0.00	
8,400.0	0.00	0.00	8,101.7	-76.0	1,962.8	1,964.2	0.00	0.00	
8,500.0	0.00	0.00	8,201.7	-76.0	1,962.8	1,964.2	0.00	0.00	
8,600.0	0.00	0.00	8,301.7	-76.0	1,962.8	1,964.2	0.00	0.00	
8,700.0	0.00	0.00	8,401.7	-76.0	1,962.8	1,964.2	0.00	0.00	
8,800.0	0.00	0.00	8,501.7	-76.0	1,962.8	1,964.2	0.00	0.00	
8,900.0	0.00	0.00	8,601.7	-76.0	1,962.8	1,964.2	0.00	0.00	
8,979.3	0.00	0.00	8,681.0	-76.0	1,962.8	1,964.2	0.00	0.00	ROLLINS
9,000.0	0.00	0.00	8,701.7	-76.0	1,962.8	1,964.2	0.00	0.00	
9,100.0	0.00	0.00	8,801.7	-76.0	1,962.8	1,964.2	0.00	0.00	
9,127.3	0.00	0.00	8,829.0	-76.0	1,962.8	1,964.2	0.00	0.00	TD @ 9,127.3' MD

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well PUCKETT 32C-1
Company:	Caerus Oil & Gas (NAD 27)	TVD Reference:	KB=20' @ 8349.0usft (Patterson #303)
Project:	Garfield County, CO	MD Reference:	KB=20' @ 8349.0usft (Patterson #303)
Site:	S1-T7S-R97W (Mesa E1 797)	North Reference:	True
Well:	PUCKETT 32C-1	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #1		

Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
PUCKETT 32C-1 TGT	0.00	0.00	7,009.0	-76.0	1,962.8	609,259.18	1,247,634.90	39.475919	-108.165619
- plan hits target center									
- Point									
PUCKETT 32C-1 BHL	0.00	0.00	8,829.0	-76.0	1,962.8	609,259.18	1,247,634.90	39.475919	-108.165619
- plan hits target center									
- Circle (radius 50.0)									

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(usft)	(usft)			(°)	(°)	
6,047.8	5,791.0	OHIO CREEK				
6,341.9	6,071.0	WILLIAMS FORK				
7,307.3	7,009.0	TOP of GAS				
8,979.3	8,681.0	ROLLINS				

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates			
(usft)	(usft)	+N/-S	+E/-W	Comment	
(usft)	(usft)	(usft)	(usft)		
300.0	300.0	0.0	0.0	KOP @ 300'	
894.0	884.5	-3.5	91.6	EOB @ 17.82° INC	
6,713.3	6,424.5	-72.5	1,871.2	Start 3° Drop	
7,307.3	7,009.0	-76.0	1,962.8	EOD @ 0° INC	
9,127.3	8,829.0	-76.0	1,962.8	TD @ 9,127.3' MD	

Caerus Oil & Gas (NAD 27)

Garfield County, CO

S1-T7S-R97W (Mesa E1 797)

PUCKETT 32C-1

DD

Plan #1

Anticollision Report

16 December, 2014

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 32C-1
Project:	Garfield County, CO	TVD Reference:	KB=20' @ 8349.0usft (Patterson #303)
Reference Site:	S1-T7S-R97W (Mesa E1 797)	MD Reference:	KB=20' @ 8349.0usft (Patterson #303)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 32C-1	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 #1	Offset TVD Reference:	Offset Datum

Reference	Plan #1		
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 200.0usft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program		Date	12/12/2014		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	9,127.3	Plan #1 (DD)	ISCWSA MWD	MWD - Standard	

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 32C-1
Project:	Garfield County, CO	TVD Reference:	KB=20' @ 8349.0usft (Patterson #303)
Reference Site:	S1-T7S-R97W (Mesa E1 797)	MD Reference:	KB=20' @ 8349.0usft (Patterson #303)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 32C-1	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 #1	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)		
S1-T7S-R97W (Mesa E1 797)						
PUCKETT 11B-1 - DD - Plan #1	358.1	359.2	39.1	37.7	28.669	CC, ES
PUCKETT 11B-1 - DD - Plan #1	500.0	499.4	47.2	45.0	21.336	SF
PUCKETT 11C-1 - DD - Plan #1	300.0	300.0	48.6	47.5	45.046	CC, ES
PUCKETT 11C-1 - DD - Plan #1	600.0	598.2	66.2	63.4	24.065	SF
PUCKETT 13B-1 - DD - Plan #1	200.0	200.0	64.6	63.9	102.602	CC, ES
PUCKETT 13B-1 - DD - Plan #1	600.0	579.5	117.0	114.3	43.534	SF
PUCKETT 21A-1 - HZ - Plan #1	300.0	300.0	26.1	25.0	24.199	CC, ES
PUCKETT 21A-1 - HZ - Plan #1	500.0	499.6	34.8	32.7	16.193	SF
PUCKETT 21C-1 - DD - Plan #1	300.0	300.0	19.0	17.9	17.592	CC, ES
PUCKETT 21C-1 - DD - Plan #1	500.0	499.8	27.8	25.6	12.965	SF
PUCKETT 21D-1 - DD - Plan #1	300.0	300.0	12.9	11.8	11.946	CC, ES
PUCKETT 21D-1 - DD - Plan #1	400.0	400.0	15.5	13.9	9.783	SF
PUCKETT 22A-36 - DD - Plan #1	324.9	325.2	33.5	32.3	28.102	CC, ES
PUCKETT 22A-36 - DD - Plan #1	500.0	499.9	41.0	38.8	19.050	SF
PUCKETT 22C-1 - DD - Plan #1	300.0	300.0	8.3	7.2	7.678	CC, ES
PUCKETT 22C-1 - DD - Plan #1	400.0	400.0	9.7	8.2	6.292	SF
PUCKETT 22D-1 - DD - Plan #1	300.0	300.0	24.5	23.5	22.745	CC, ES
PUCKETT 22D-1 - DD - Plan #1	500.0	499.6	30.7	28.6	14.881	SF
PUCKETT 23A-1 - DD - Plan #1	300.0	300.0	47.8	46.7	44.316	CC, ES
PUCKETT 23A-1 - DD - Plan #1	700.0	698.3	74.8	71.6	23.417	SF
PUCKETT 23B-1 - DD - Plan #1	300.0	300.0	56.0	54.9	51.872	CC, ES
PUCKETT 23B-1 - DD - Plan #1	1,200.0	1,184.1	187.6	179.9	24.412	SF
PUCKETT 23C-1 - DD - Plan #1	300.0	300.0	56.7	55.6	52.563	CC, ES
PUCKETT 23C-1 - DD - Plan #1	600.0	589.5	92.2	89.6	35.020	SF
PUCKETT 31B-1 - DD - Plan #1	200.0	200.0	12.9	12.3	20.565	CC, ES
PUCKETT 31B-1 - DD - Plan #1	400.0	399.1	18.4	16.8	11.902	SF
PUCKETT 31C-1 - DD - Plan #1	334.4	334.5	9.6	8.4	7.820	CC, ES
PUCKETT 31C-1 - DD - Plan #1	400.0	400.2	10.5	8.9	6.792	SF
PUCKETT 32A-1 - DD - Plan #1	200.0	200.0	8.0	7.3	12.650	CC, ES
PUCKETT 32A-1 - DD - Plan #1	3,000.0	2,987.3	199.1	167.8	6.358	SF
PUCKETT 33A-1 - DD - Plan #1	300.0	300.0	16.3	15.2	15.067	CC, ES
PUCKETT 33A-1 - DD - Plan #1	2,300.0	2,294.3	174.2	151.4	7.656	SF
PUCKETT 33C-1 - DD - Plan #1	241.2	241.2	31.6	30.7	38.743	CC
PUCKETT 33C-1 - DD - Plan #1	300.0	299.9	31.6	30.5	29.517	ES
PUCKETT 33C-1 - DD - Plan #1	1,400.0	1,380.8	180.9	169.5	15.812	SF
PUCKETT 34A-1 - DD - Plan #1	300.0	300.0	39.9	38.8	36.937	CC, ES
PUCKETT 34A-1 - DD - Plan #1	1,300.0	1,280.2	187.4	178.0	19.850	SF
PUCKETT SWD E1-797 - VH - Plan #1	300.0	300.0	63.9	62.9	59.258	CC, ES
PUCKETT SWD E1-797 - VH - Plan #1	700.0	697.1	90.9	87.7	27.991	SF

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 32C-1
Project:	Garfield County, CO	TVD Reference:	KB=20' @ 8349.0usft (Patterson #303)
Reference Site:	S1-T7S-R97W (Mesa E1 797)	MD Reference:	KB=20' @ 8349.0usft (Patterson #303)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 32C-1	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 #1	Offset TVD Reference:	Offset Datum

Offset Design S1-T7S-R97W (Mesa E1 797) - PUCKETT 11B-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	-136.26	-29.5	-28.2	40.8					
100.0	100.0	100.0	100.0	0.1	0.1	-136.26	-29.5	-28.2	40.8	40.6	0.18	227.063		
200.0	200.0	200.0	200.0	0.3	0.3	-136.26	-29.5	-28.2	40.8	40.2	0.63	64.875		
300.0	300.0	300.9	300.8	0.5	0.5	-132.81	-27.0	-29.1	39.7	38.6	1.09	36.600		
358.1	358.1	359.2	359.1	0.7	0.7	141.28	-23.3	-30.5	39.1	37.7	1.36	28.669 CC, ES		
400.0	400.0	401.0	400.6	0.8	0.8	148.31	-19.6	-31.8	39.6	38.0	1.58	25.045		
500.0	499.6	499.4	498.2	1.0	1.1	169.06	-7.5	-36.2	47.2	45.0	2.21	21.336 SF		
600.0	598.8	595.0	592.2	1.3	1.4	-173.68	8.7	-42.1	66.7	63.8	2.90	22.953		
700.0	697.1	686.9	681.6	1.6	1.8	-163.00	28.5	-49.3	97.1	93.6	3.58	27.160		
800.0	794.3	774.6	766.0	2.0	2.2	-156.62	51.1	-57.6	136.8	132.5	4.24	32.225		
900.0	890.2	863.1	850.6	2.6	2.7	-152.97	75.5	-66.4	182.7	177.8	4.91	37.231		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 32C-1
Project:	Garfield County, CO	TVD Reference:	KB=20' @ 8349.0usft (Patterson #303)
Reference Site:	S1-T7S-R97W (Mesa E1 797)	MD Reference:	KB=20' @ 8349.0usft (Patterson #303)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 32C-1	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 #1	Offset TVD Reference:	Offset Datum

Offset Design													S1-T7S-R97W (Mesa E1 797) - PUCKETT 11C-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	-138.53	-36.4	-32.2	48.6								
100.0	100.0	100.0	100.0	0.1	0.1	-138.53	-36.4	-32.2	48.6	48.4	0.18	270.278					
200.0	200.0	200.0	200.0	0.3	0.3	-138.53	-36.4	-32.2	48.6	48.0	0.63	77.222					
300.0	300.0	300.0	300.0	0.5	0.5	-138.53	-36.4	-32.2	48.6	47.5	1.08	45.046	CC, ES				
400.0	400.0	400.7	400.6	0.8	0.8	133.15	-35.1	-32.8	49.8	48.2	1.55	32.138					
500.0	499.6	500.5	500.3	1.0	1.0	145.72	-29.1	-35.5	54.2	52.1	2.10	25.851					
600.0	598.8	598.2	597.3	1.3	1.3	161.96	-18.7	-40.3	66.2	63.4	2.75	24.065	SF				
700.0	697.1	692.7	690.4	1.6	1.6	175.89	-4.3	-46.8	88.8	85.3	3.44	25.814					
800.0	794.3	783.0	778.7	2.0	1.9	-174.29	13.3	-54.8	121.9	117.8	4.11	29.644					
900.0	890.2	872.8	865.8	2.6	2.3	-167.99	33.0	-63.7	163.2	158.4	4.76	34.283					

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 32C-1
Project:	Garfield County, CO	TVD Reference:	KB=20' @ 8349.0usft (Patterson #303)
Reference Site:	S1-T7S-R97W (Mesa E1 797)	MD Reference:	KB=20' @ 8349.0usft (Patterson #303)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 32C-1	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 #1	Offset TVD Reference:	Offset Datum

Offset Design S1-T7S-R97W (Mesa E1 797) - PUCKETT 13B-1 - DD - Plan #1													Offset Site Error:	0.0 usft
Survey Program: 0-ISWWSA 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	-141.63	-50.6	-40.1	64.6					
100.0	100.0	100.0	100.0	0.1	0.1	-141.63	-50.6	-40.1	64.6	64.4	0.18	359.106		
200.0	200.0	200.0	200.0	0.3	0.3	-141.63	-50.6	-40.1	64.6	63.9	0.63	102.602 CC, ES		
300.0	300.0	296.8	296.7	0.5	0.5	-142.19	-52.9	-41.0	67.0	66.0	1.05	63.727		
400.0	400.0	392.9	392.6	0.8	0.7	125.48	-59.6	-43.8	75.8	74.3	1.54	49.387		
500.0	499.6	487.5	486.4	1.0	1.0	126.94	-70.5	-48.4	92.5	90.4	2.08	44.507		
600.0	598.8	579.5	577.0	1.3	1.3	128.87	-85.3	-54.6	117.0	114.3	2.69	43.534 SF		
700.0	697.1	668.6	664.0	1.6	1.7	130.64	-103.4	-62.1	149.1	145.8	3.37	44.275		
800.0	794.3	761.1	753.7	2.0	2.1	132.50	-123.9	-70.7	186.5	182.4	4.09	45.581		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 32C-1
Project:	Garfield County, CO	TVD Reference:	KB=20' @ 8349.0usft (Patterson #303)
Reference Site:	S1-T7S-R97W (Mesa E1 797)	MD Reference:	KB=20' @ 8349.0usft (Patterson #303)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 32C-1	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 #1	Offset TVD Reference:	Offset Datum

Offset Design S1-T7S-R97W (Mesa E1 797) - PUCKETT 21A-1 - HZ - 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	-128.88	-16.4	-20.3	26.1				
100.0	100.0	100.0	100.0	0.1	0.1	-128.88	-16.4	-20.3	26.1	25.9	0.18	145.191	
200.0	200.0	200.0	200.0	0.3	0.3	-128.88	-16.4	-20.3	26.1	25.5	0.63	41.483	
300.0	300.0	300.0	300.0	0.5	0.5	-128.88	-16.4	-20.3	26.1	25.0	1.08	24.199 CC, ES	
400.0	400.0	400.3	400.2	0.8	0.8	147.67	-13.9	-21.2	27.6	26.0	1.56	17.626	
500.0	499.6	499.6	499.3	1.0	1.0	167.46	-6.6	-23.8	34.8	32.7	2.15	16.193 SF	
600.0	598.8	599.0	598.0	1.3	1.3	-174.99	5.2	-25.2	49.1	46.3	2.78	17.662	
700.0	697.1	697.2	694.9	1.6	1.6	-162.65	21.0	-23.7	69.2	65.8	3.40	20.332	
800.0	794.3	793.9	789.4	2.0	1.9	-154.06	40.6	-19.4	95.0	90.9	4.07	23.341	
900.0	890.2	888.8	881.2	2.6	2.3	-147.90	63.7	-12.7	125.9	121.1	4.80	26.247	
1,000.0	985.4	982.2	970.4	3.1	2.8	-143.22	90.0	-3.5	159.5	154.0	5.54	28.796	
1,100.0	1,080.6	1,075.5	1,058.8	3.7	3.3	-139.55	117.8	6.8	194.0	187.6	6.38	30.386	

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 32C-1
Project:	Garfield County, CO	TVD Reference:	KB=20' @ 8349.0usft (Patterson #303)
Reference Site:	S1-T7S-R97W (Mesa E1 797)	MD Reference:	KB=20' @ 8349.0usft (Patterson #303)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 32C-1	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 #1	Offset TVD Reference:	Offset Datum

Offset Design S1-T7S-R97W (Mesa E1 797) - PUCKETT 21C-1 - DD - Plan #1													Offset Site Error:	0.0 usft
Survey Program: 0-ISWWSA 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	-118.65	-9.1	-16.7	19.0					
100.0	100.0	100.0	100.0	0.1	0.1	-118.65	-9.1	-16.7	19.0	18.8	0.18	105.551		
200.0	200.0	200.0	200.0	0.3	0.3	-118.65	-9.1	-16.7	19.0	18.4	0.63	30.157		
300.0	300.0	300.0	300.0	0.5	0.5	-118.65	-9.1	-16.7	19.0	17.9	1.08	17.592 CC, ES		
400.0	400.0	400.1	400.1	0.8	0.8	154.41	-8.4	-16.7	21.1	19.5	1.57	13.413		
500.0	499.6	499.8	499.7	1.0	1.0	171.86	-3.3	-17.2	27.8	25.6	2.14	12.965 SF		
600.0	598.8	599.2	598.5	1.3	1.2	-171.44	6.7	-17.2	41.4	38.6	2.75	15.057		
700.0	697.1	698.2	696.5	1.6	1.5	-160.12	20.4	-13.8	59.7	56.4	3.35	17.807		
800.0	794.3	796.4	792.9	2.0	1.8	-152.19	37.5	-6.9	82.4	78.4	4.01	20.550		
900.0	890.2	892.7	886.8	2.6	2.2	-147.05	56.9	2.4	109.3	104.6	4.73	23.108		
1,000.0	985.4	988.2	979.9	3.1	2.6	-144.69	76.1	11.8	138.5	133.1	5.43	25.520		
1,100.0	1,080.6	1,083.7	1,073.0	3.7	3.0	-143.15	95.4	21.1	167.8	161.6	6.18	27.153		
1,200.0	1,175.8	1,179.3	1,166.1	4.4	3.4	-142.07	114.7	30.5	197.2	190.2	6.97	28.290		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 32C-1
Project:	Garfield County, CO	TVD Reference:	KB=20' @ 8349.0usft (Patterson #303)
Reference Site:	S1-T7S-R97W (Mesa E1 797)	MD Reference:	KB=20' @ 8349.0usft (Patterson #303)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 32C-1	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 #1	Offset TVD Reference:	Offset Datum

Offset Design S1-T7S-R97W (Mesa E1 797) - PUCKETT 21D-1 - DD - Plan #1												Offset Site Error:	0.0 usft
Survey Program: 0-ISWWSA 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	-99.74	-2.2	-12.7	12.9				
100.0	100.0	100.0	100.0	0.1	0.1	-99.74	-2.2	-12.7	12.9	12.7	0.18	71.679	
200.0	200.0	200.0	200.0	0.3	0.3	-99.74	-2.2	-12.7	12.9	12.3	0.63	20.480	
300.0	300.0	300.0	300.0	0.5	0.5	-99.74	-2.2	-12.7	12.9	11.8	1.08	11.946 CC, ES	
400.0	400.0	400.0	400.0	0.8	0.8	170.04	-2.2	-12.7	15.5	13.9	1.58	9.783 SF	
500.0	499.6	500.3	500.2	1.0	1.0	178.93	0.0	-11.3	21.7	19.6	2.14	10.183	
600.0	598.8	600.2	599.8	1.3	1.2	-168.27	6.6	-7.0	31.4	28.7	2.71	11.618	
700.0	697.1	699.3	698.1	1.6	1.5	-157.27	17.5	0.0	45.9	42.6	3.30	13.893	
800.0	794.3	797.3	794.5	2.0	1.8	-149.47	32.1	9.4	65.5	61.5	3.96	16.531	
900.0	890.2	894.2	889.7	2.6	2.1	-146.39	47.3	19.3	89.9	85.3	4.68	19.222	
1,000.0	985.4	990.6	984.4	3.1	2.5	-145.51	62.5	29.1	116.3	111.0	5.34	21.774	
1,100.0	1,080.6	1,087.1	1,079.2	3.7	2.9	-144.96	77.6	38.8	142.8	136.7	6.05	23.595	
1,200.0	1,175.8	1,183.5	1,173.9	4.4	3.2	-144.58	92.7	48.6	169.2	162.4	6.79	24.933	
1,300.0	1,271.0	1,280.0	1,268.7	5.0	3.6	-144.31	107.9	58.4	195.6	188.1	7.54	25.939	

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 32C-1
Project:	Garfield County, CO	TVD Reference:	KB=20' @ 8349.0usft (Patterson #303)
Reference Site:	S1-T7S-R97W (Mesa E1 797)	MD Reference:	KB=20' @ 8349.0usft (Patterson #303)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 32C-1	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 #1	Offset TVD Reference:	Offset Datum

Offset Design S1-T7S-R97W (Mesa E1 797) - PUCKETT 22A-36 - 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	-133.83	-23.3	-24.3	33.7					
100.0	100.0	100.0	100.0	0.1	0.1	-133.83	-23.3	-24.3	33.7	33.5	0.18	187.139		
200.0	200.0	200.0	200.0	0.3	0.3	-133.83	-23.3	-24.3	33.7	33.0	0.63	53.468		
300.0	300.0	300.2	300.2	0.5	0.5	-133.56	-23.1	-24.3	33.6	32.5	1.08	31.121		
324.9	324.9	325.2	325.2	0.6	0.6	135.20	-22.7	-24.5	33.5	32.3	1.19	28.102 CC, ES		
400.0	400.0	400.5	400.4	0.8	0.8	143.50	-19.5	-25.8	34.4	32.9	1.56	22.074		
500.0	499.6	499.9	499.4	1.0	1.0	162.65	-11.0	-29.1	41.0	38.8	2.15	19.050 SF		
600.0	598.8	598.9	597.4	1.3	1.3	-179.05	2.1	-31.6	55.2	52.4	2.80	19.687		
700.0	697.1	696.0	692.9	1.6	1.6	-165.73	19.6	-32.1	77.0	73.5	3.45	22.290		
800.0	794.3	790.8	785.3	2.0	2.0	-156.60	41.0	-31.0	105.8	101.7	4.13	25.638		
900.0	890.2	883.0	874.0	2.6	2.4	-150.23	65.9	-28.1	140.9	136.1	4.85	29.086		
1,000.0	985.4	973.0	959.4	3.1	2.9	-145.69	94.0	-23.8	179.6	174.1	5.56	32.335		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 32C-1
Project:	Garfield County, CO	TVD Reference:	KB=20' @ 8349.0usft (Patterson #303)
Reference Site:	S1-T7S-R97W (Mesa E1 797)	MD Reference:	KB=20' @ 8349.0usft (Patterson #303)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 32C-1	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 #1	Offset TVD Reference:	Offset Datum

Offset Design S1-T7S-R97W (Mesa E1 797) - PUCKETT 22C-1 - DD - Plan #1													Offset Site Error:	0.0 usft
Survey Program: 0-ISWWSA 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	-151.50	-7.3	-4.0	8.3					
100.0	100.0	100.0	100.0	0.1	0.1	-151.50	-7.3	-4.0	8.3	8.1	0.18	46.068		
200.0	200.0	200.0	200.0	0.3	0.3	-151.50	-7.3	-4.0	8.3	7.7	0.63	13.162		
300.0	300.0	300.0	300.0	0.5	0.5	-151.50	-7.3	-4.0	8.3	7.2	1.08	7.678 CC, ES		
400.0	400.0	400.0	400.0	0.8	0.8	130.20	-7.3	-4.0	9.7	8.2	1.55	6.292 SF		
500.0	499.6	499.6	499.6	1.0	1.0	152.14	-7.3	-4.0	16.0	13.9	2.11	7.563		
600.0	598.8	598.8	598.8	1.3	1.2	164.53	-7.3	-4.0	28.2	25.5	2.72	10.368		
700.0	697.1	699.4	699.3	1.6	1.4	170.02	-7.4	-1.4	43.5	40.2	3.30	13.175		
800.0	794.3	797.8	797.6	2.0	1.6	172.83	-7.7	4.0	61.3	57.4	3.88	15.819		
900.0	890.2	895.1	894.8	2.6	1.8	174.70	-7.9	9.3	84.3	79.8	4.46	18.902		
1,000.0	985.4	991.9	991.4	3.1	2.1	175.90	-8.1	14.6	109.6	104.7	4.89	22.406		
1,100.0	1,080.6	1,088.6	1,088.0	3.7	2.3	176.65	-8.4	19.9	134.8	129.5	5.34	25.256		
1,200.0	1,175.8	1,185.3	1,184.6	4.4	2.5	177.17	-8.6	25.2	160.2	154.4	5.80	27.592		
1,300.0	1,271.0	1,282.1	1,281.1	5.0	2.7	177.54	-8.9	30.5	185.5	179.2	6.28	29.525		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 32C-1
Project:	Garfield County, CO	TVD Reference:	KB=20' @ 8349.0usft (Patterson #303)
Reference Site:	S1-T7S-R97W (Mesa E1 797)	MD Reference:	KB=20' @ 8349.0usft (Patterson #303)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 32C-1	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 #1	Offset TVD Reference:	Offset Datum

Offset Design S1-T7S-R97W (Mesa E1 797) - PUCKETT 22D-1 - DD - Plan #1													Offset Site Error:	0.0 usft
Survey Program: 0-ISWWSA 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	-151.11	-21.5	-11.9	24.5					
100.0	100.0	100.0	100.0	0.1	0.1	-151.11	-21.5	-11.9	24.5	24.4	0.18	136.471		
200.0	200.0	200.0	200.0	0.3	0.3	-151.11	-21.5	-11.9	24.5	23.9	0.63	38.992		
300.0	300.0	300.0	300.0	0.5	0.5	-151.11	-21.5	-11.9	24.5	23.5	1.08	22.745 CC, ES		
400.0	400.0	400.0	400.0	0.8	0.8	121.83	-21.5	-11.9	25.8	24.3	1.54	16.794		
500.0	499.6	499.6	499.6	1.0	1.0	134.25	-21.5	-11.9	30.7	28.6	2.06	14.881 SF		
600.0	598.8	600.0	599.9	1.3	1.2	144.35	-22.5	-9.4	39.4	36.8	2.64	14.941		
700.0	697.1	700.7	700.4	1.6	1.4	148.96	-25.6	-2.2	50.1	46.9	3.23	15.528		
800.0	794.3	800.2	799.2	2.0	1.7	151.56	-30.1	8.4	63.1	59.3	3.85	16.381		
900.0	890.2	898.5	896.8	2.6	1.9	154.77	-34.5	19.0	80.9	76.3	4.51	17.911		
1,000.0	985.4	996.4	994.0	3.1	2.2	157.49	-39.0	29.5	100.8	95.8	5.05	19.977		
1,100.0	1,080.6	1,094.3	1,091.3	3.7	2.5	159.31	-43.4	40.0	121.0	115.4	5.59	21.645		
1,200.0	1,175.8	1,192.2	1,188.5	4.4	2.8	160.61	-47.9	50.5	141.2	135.1	6.14	22.997		
1,300.0	1,271.0	1,290.1	1,285.7	5.0	3.0	161.58	-52.4	61.1	161.5	154.8	6.70	24.108		
1,400.0	1,366.2	1,388.0	1,382.9	5.6	3.3	162.34	-56.8	71.6	181.8	174.5	7.26	25.027		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 32C-1
Project:	Garfield County, CO	TVD Reference:	KB=20' @ 8349.0usft (Patterson #303)
Reference Site:	S1-T7S-R97W (Mesa E1 797)	MD Reference:	KB=20' @ 8349.0usft (Patterson #303)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 32C-1	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 #1	Offset TVD Reference:	Offset Datum

Offset Design S1-T7S-R97W (Mesa E1 797) - PUCKETT 23A-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	-150.27	-41.5	-23.7	47.8					
100.0	100.0	100.0	100.0	0.1	0.1	-150.27	-41.5	-23.7	47.8	47.6	0.18	265.898		
200.0	200.0	200.0	200.0	0.3	0.3	-150.27	-41.5	-23.7	47.8	47.2	0.63	75.971		
300.0	300.0	300.0	300.0	0.5	0.5	-150.27	-41.5	-23.7	47.8	46.7	1.08	44.316 CC, ES		
400.0	400.0	400.0	400.0	0.8	0.8	120.19	-41.5	-23.7	49.1	47.5	1.54	31.953		
500.0	499.6	499.6	499.6	1.0	1.0	127.36	-41.5	-23.7	53.5	51.4	2.04	26.172		
600.0	598.8	599.0	598.9	1.3	1.2	134.38	-43.3	-21.9	62.1	59.5	2.60	23.908		
700.0	697.1	698.3	698.0	1.6	1.4	138.20	-48.7	-16.4	74.8	71.6	3.19	23.417 SF		
800.0	794.3	797.6	796.4	2.0	1.6	139.64	-57.7	-7.2	90.9	87.0	3.86	23.552		
900.0	890.2	896.1	893.3	2.6	1.9	139.80	-69.9	5.3	110.3	105.7	4.61	23.907		
1,000.0	985.4	993.9	989.4	3.1	2.3	140.43	-82.5	18.2	131.3	126.0	5.35	24.562		
1,100.0	1,080.6	1,091.6	1,085.5	3.7	2.6	140.88	-95.2	31.2	152.3	146.2	6.12	24.894		
1,200.0	1,175.8	1,189.4	1,181.5	4.4	3.0	141.22	-107.9	44.2	173.3	166.4	6.92	25.052		
1,300.0	1,271.0	1,287.1	1,277.6	5.0	3.4	141.49	-120.6	57.2	194.4	186.6	7.74	25.116		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 32C-1
Project:	Garfield County, CO	TVD Reference:	KB=20' @ 8349.0usft (Patterson #303)
Reference Site:	S1-T7S-R97W (Mesa E1 797)	MD Reference:	KB=20' @ 8349.0usft (Patterson #303)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 32C-1	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 #1	Offset TVD Reference:	Offset Datum

Offset Design S1-T7S-R97W (Mesa E1 797) - PUCKETT 23B-1 - DD - Plan #1													Offset Site Error:	0.0 usft
Survey Program: 0-ISWWSA 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	-150.71	-48.8	-27.4	56.0					
100.0	100.0	100.0	100.0	0.1	0.1	-150.71	-48.8	-27.4	56.0	55.8	0.18	311.230		
200.0	200.0	200.0	200.0	0.3	0.3	-150.71	-48.8	-27.4	56.0	55.3	0.63	88.923		
300.0	300.0	300.0	300.0	0.5	0.5	-150.71	-48.8	-27.4	56.0	54.9	1.08	51.872 CC, ES		
400.0	400.0	400.0	400.0	0.8	0.8	119.38	-48.8	-27.4	57.2	55.7	1.54	37.263		
500.0	499.6	499.0	498.9	1.0	1.0	123.26	-50.7	-25.7	61.9	59.9	2.01	30.806		
600.0	598.8	597.9	597.5	1.3	1.2	125.74	-56.4	-20.5	70.9	68.3	2.55	27.839		
700.0	697.1	696.4	695.2	1.6	1.4	126.86	-65.9	-12.1	83.8	80.6	3.18	26.390		
800.0	794.3	794.3	791.5	2.0	1.7	126.99	-79.0	-0.3	100.6	96.7	3.92	25.650		
900.0	890.2	891.6	886.2	2.6	2.1	126.55	-95.6	14.6	121.2	116.4	4.80	25.232		
1,000.0	985.4	989.1	980.8	3.1	2.6	126.70	-113.3	30.5	143.3	137.6	5.72	25.040		
1,100.0	1,080.6	1,086.6	1,075.3	3.7	3.0	126.80	-131.1	46.4	165.4	158.7	6.69	24.733		
1,200.0	1,175.8	1,184.1	1,169.9	4.4	3.5	126.89	-148.8	62.3	187.6	179.9	7.68	24.412 SF		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 32C-1
Project:	Garfield County, CO	TVD Reference:	KB=20' @ 8349.0usft (Patterson #303)
Reference Site:	S1-T7S-R97W (Mesa E1 797)	MD Reference:	KB=20' @ 8349.0usft (Patterson #303)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 32C-1	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 #1	Offset TVD Reference:	Offset Datum

Offset Design S1-T7S-R97W (Mesa E1 797) - PUCKETT 23C-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	-140.42	-43.7	-36.1	56.7					
100.0	100.0	100.0	100.0	0.1	0.1	-140.42	-43.7	-36.1	56.7	56.5	0.18	315.379		
200.0	200.0	200.0	200.0	0.3	0.3	-140.42	-43.7	-36.1	56.7	56.1	0.63	90.108		
300.0	300.0	300.0	300.0	0.5	0.5	-140.42	-43.7	-36.1	56.7	55.6	1.08	52.563	CC, ES	
400.0	400.0	397.1	397.1	0.8	0.7	128.40	-46.0	-37.0	60.7	59.2	1.53	39.792		
500.0	499.6	493.2	492.9	1.0	0.9	130.77	-52.9	-39.5	72.7	70.7	2.04	35.666		
600.0	598.8	589.5	588.5	1.3	1.2	133.04	-64.2	-42.8	92.2	89.6	2.63	35.020	SF	
700.0	697.1	686.2	684.0	1.6	1.5	133.80	-79.3	-43.5	116.0	112.8	3.26	35.546		
800.0	794.3	782.0	777.8	2.0	1.8	133.57	-98.0	-41.1	143.7	139.7	3.99	36.036		
900.0	890.2	876.8	870.2	2.6	2.2	133.26	-119.1	-36.6	175.0	170.2	4.80	36.458		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 32C-1
Project:	Garfield County, CO	TVD Reference:	KB=20' @ 8349.0usft (Patterson #303)
Reference Site:	S1-T7S-R97W (Mesa E1 797)	MD Reference:	KB=20' @ 8349.0usft (Patterson #303)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 32C-1	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 #1	Offset TVD Reference:	Offset Datum

Offset Design S1-T7S-R97W (Mesa E1 797) - PUCKETT 31B-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	-21.76	12.0	-4.8	12.9					
100.0	100.0	100.0	100.0	0.1	0.1	-21.76	12.0	-4.8	12.9	12.8	0.18	71.976		
200.0	200.0	200.0	200.0	0.3	0.3	-21.76	12.0	-4.8	12.9	12.3	0.63	20.565 CC, ES		
300.0	300.0	299.7	299.7	0.5	0.5	-11.30	13.6	-2.7	13.8	12.8	1.08	12.834		
400.0	400.0	399.1	398.7	0.8	0.8	-89.22	18.2	3.5	18.4	16.8	1.54	11.902 SF		
500.0	499.6	497.9	496.7	1.0	1.1	-84.37	25.9	13.8	26.7	24.6	2.05	12.988		
600.0	598.8	596.1	593.3	1.3	1.4	-84.10	36.5	28.0	38.1	35.4	2.65	14.384		
700.0	697.1	693.5	688.0	1.6	1.8	-85.41	49.9	46.0	52.5	49.2	3.36	15.625		
800.0	794.3	789.9	780.6	2.0	2.3	-87.07	66.1	67.6	70.0	65.8	4.22	16.582		
900.0	890.2	885.2	870.6	2.6	2.9	-88.68	84.7	92.7	90.5	85.3	5.24	17.264		
1,000.0	985.4	981.4	960.2	3.1	3.6	-89.67	105.8	120.8	113.4	107.1	6.38	17.776		
1,100.0	1,080.6	1,078.7	1,050.6	3.7	4.3	-90.22	127.2	149.5	136.6	129.0	7.56	18.073		
1,200.0	1,175.8	1,176.0	1,141.1	4.4	5.0	-90.61	148.6	178.3	159.8	151.0	8.76	18.246		
1,300.0	1,271.0	1,273.3	1,231.5	5.0	5.7	-90.91	170.0	207.0	182.9	173.0	9.97	18.354		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 32C-1
Project:	Garfield County, CO	TVD Reference:	KB=20' @ 8349.0usft (Patterson #303)
Reference Site:	S1-T7S-R97W (Mesa E1 797)	MD Reference:	KB=20' @ 8349.0usft (Patterson #303)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 32C-1	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 #1	Offset TVD Reference:	Offset Datum

Offset Design S1-T7S-R97W (Mesa E1 797) - PUCKETT 31C-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	-59.77	5.1	-8.8	10.1					
100.0	100.0	100.0	100.0	0.1	0.1	-59.77	5.1	-8.8	10.1	9.9	0.18	56.326		
200.0	200.0	200.0	200.0	0.3	0.3	-59.77	5.1	-8.8	10.1	9.5	0.63	16.093		
300.0	300.0	300.1	300.1	0.5	0.5	-56.39	5.4	-8.2	9.8	8.8	1.08	9.130		
334.4	334.3	334.5	334.5	0.6	0.6	-143.00	6.1	-7.2	9.6	8.4	1.23	7.820 CC, ES		
400.0	400.0	400.2	400.0	0.8	0.8	-129.58	8.2	-3.7	10.5	8.9	1.54	6.792 SF		
500.0	499.6	500.0	499.3	1.0	1.0	-112.64	13.7	5.1	15.1	13.1	2.04	7.414		
600.0	598.8	599.3	597.4	1.3	1.3	-104.33	21.9	18.3	23.4	20.8	2.62	8.946		
700.0	697.1	698.1	694.0	1.6	1.7	-100.85	32.7	35.7	35.0	31.7	3.33	10.498		
800.0	794.3	796.2	788.7	2.0	2.2	-99.42	46.0	57.1	49.5	45.3	4.20	11.796		
900.0	890.2	893.5	881.4	2.6	2.7	-98.86	61.8	82.5	66.9	61.6	5.22	12.799		
1,000.0	985.4	990.6	972.3	3.1	3.4	-97.50	79.7	111.4	86.5	80.1	6.38	13.562		
1,100.0	1,080.6	1,088.5	1,063.6	3.7	4.0	-96.16	98.4	141.4	106.5	99.0	7.57	14.068		
1,200.0	1,175.8	1,186.5	1,155.0	4.4	4.7	-95.24	117.0	171.4	126.6	117.8	8.79	14.408		
1,300.0	1,271.0	1,284.4	1,246.4	5.0	5.4	-94.58	135.6	201.3	146.8	136.7	10.02	14.651		
1,400.0	1,366.2	1,382.3	1,337.7	5.6	6.1	-94.07	154.2	231.3	166.9	155.6	11.25	14.831		
1,500.0	1,461.4	1,480.3	1,429.1	6.2	6.8	-93.68	172.8	261.3	187.0	174.5	12.49	14.969		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 32C-1
Project:	Garfield County, CO	TVD Reference:	KB=20' @ 8349.0usft (Patterson #303)
Reference Site:	S1-T7S-R97W (Mesa E1 797)	MD Reference:	KB=20' @ 8349.0usft (Patterson #303)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 32C-1	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 #1	Offset TVD Reference:	Offset Datum

Offset Design S1-T7S-R97W (Mesa E1 797) - PUCKETT 32A-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		Total		Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Uncertainty Axis			
0.0	0.0	0.0	0.0	0.0	0.0	29.76	6.9	4.0	8.0					
100.0	100.0	100.0	100.0	0.1	0.1	29.76	6.9	4.0	8.0	7.8	0.18	44.276		
200.0	200.0	200.0	200.0	0.3	0.3	29.76	6.9	4.0	8.0	7.3	0.63	12.650 CC, ES		
300.0	300.0	299.8	299.7	0.5	0.5	36.73	7.2	5.4	9.0	7.9	1.07	8.392		
400.0	400.0	399.2	399.0	0.8	0.8	-45.64	8.6	11.7	12.6	11.1	1.54	8.157		
500.0	499.6	498.4	497.5	1.0	1.0	-43.85	11.0	23.1	17.1	15.0	2.07	8.267		
600.0	598.8	597.4	595.1	1.3	1.4	-45.46	14.4	39.4	22.4	19.7	2.65	8.435		
700.0	697.1	696.1	691.4	1.6	1.8	-48.43	18.9	60.5	28.4	25.1	3.31	8.573		
800.0	794.3	794.6	786.2	2.0	2.3	-51.82	24.3	86.4	35.3	31.2	4.10	8.618		
900.0	890.2	893.6	880.3	2.6	2.9	-55.95	30.7	116.5	42.6	37.5	5.05	8.435		
1,000.0	985.4	993.3	974.9	3.1	3.5	-60.89	37.2	147.3	49.2	43.1	6.12	8.039		
1,100.0	1,080.6	1,093.0	1,069.5	3.7	4.1	-64.63	43.7	178.1	56.1	48.9	7.28	7.709		
1,200.0	1,175.8	1,192.7	1,164.1	4.4	4.7	-67.54	50.2	208.9	63.2	54.8	8.49	7.450		
1,300.0	1,271.0	1,292.4	1,258.7	5.0	5.4	-69.86	56.8	239.7	70.5	60.8	9.72	7.249		
1,400.0	1,366.2	1,392.1	1,353.3	5.6	6.0	-71.75	63.3	270.5	77.8	66.8	10.97	7.092		
1,500.0	1,461.4	1,491.8	1,447.9	6.2	6.6	-73.31	69.8	301.3	85.2	73.0	12.23	6.967		
1,600.0	1,556.6	1,591.5	1,542.5	6.8	7.3	-74.62	76.3	332.1	92.7	79.2	13.49	6.866		
1,700.0	1,651.8	1,691.2	1,637.1	7.5	7.9	-75.73	82.8	362.9	100.2	85.4	14.76	6.784		
1,800.0	1,747.0	1,790.9	1,731.7	8.1	8.6	-76.69	89.3	393.7	107.7	91.6	16.03	6.716		
1,900.0	1,842.2	1,890.6	1,826.3	8.7	9.2	-77.52	95.8	424.5	115.2	97.9	17.31	6.658		
2,000.0	1,937.4	1,990.3	1,920.9	9.4	9.9	-78.26	102.3	455.3	122.8	104.2	18.58	6.610		
2,100.0	2,032.6	2,090.0	2,015.5	10.0	10.5	-78.90	108.8	486.1	130.4	110.5	19.85	6.568		
2,200.0	2,127.8	2,189.7	2,110.1	10.6	11.2	-79.48	115.4	516.9	138.0	116.9	21.13	6.532		
2,300.0	2,223.0	2,289.4	2,204.7	11.3	11.8	-79.99	121.9	547.7	145.6	123.2	22.40	6.500		
2,400.0	2,318.2	2,389.1	2,299.3	11.9	12.5	-80.45	128.4	578.5	153.2	129.6	23.68	6.472		
2,500.0	2,413.4	2,488.8	2,393.9	12.5	13.1	-80.87	134.9	609.3	160.9	135.9	24.95	6.447		
2,600.0	2,508.6	2,588.5	2,488.5	13.2	13.8	-81.26	141.4	640.1	168.5	142.3	26.23	6.426		
2,700.0	2,603.8	2,688.2	2,583.1	13.8	14.4	-81.60	147.9	670.9	176.2	148.7	27.50	6.406		
2,800.0	2,699.0	2,787.9	2,677.7	14.5	15.0	-81.92	154.4	701.7	183.8	155.0	28.77	6.388		
2,900.0	2,794.2	2,887.6	2,772.3	15.1	15.7	-82.22	160.9	732.5	191.5	161.4	30.05	6.372		
3,000.0	2,889.4	2,987.3	2,866.9	15.7	16.3	-82.49	167.4	763.2	199.1	167.8	31.32	6.358 SF		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 32C-1
Project:	Garfield County, CO	TVD Reference:	KB=20' @ 8349.0usft (Patterson #303)
Reference Site:	S1-T7S-R97W (Mesa E1 797)	MD Reference:	KB=20' @ 8349.0usft (Patterson #303)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 32C-1	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 #1	Offset TVD Reference:	Offset Datum

Offset Design S1-T7S-R97W (Mesa E1 797) - PUCKETT 33A-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	-150.91	-14.2	-7.9	16.3					
100.0	100.0	100.0	100.0	0.1	0.1	-150.91	-14.2	-7.9	16.3	16.1	0.18	90.405		
200.0	200.0	200.0	200.0	0.3	0.3	-150.91	-14.2	-7.9	16.3	15.6	0.63	25.830		
300.0	300.0	300.0	300.0	0.5	0.5	-150.91	-14.2	-7.9	16.3	15.2	1.08	15.067	CC, ES	
400.0	400.0	400.1	400.1	0.8	0.8	119.80	-14.7	-6.5	17.2	15.7	1.52	11.296		
500.0	499.6	500.3	500.1	1.0	1.0	121.00	-16.8	-0.3	19.6	17.6	2.00	9.831		
600.0	598.8	600.5	599.6	1.3	1.2	120.38	-20.6	10.9	23.4	20.9	2.55	9.187		
700.0	697.1	700.7	698.3	1.6	1.5	118.74	-26.1	26.9	28.6	25.4	3.22	8.900		
800.0	794.3	800.8	795.9	2.0	2.0	116.72	-33.3	47.9	35.3	31.2	4.03	8.737		
900.0	890.2	900.8	892.1	2.6	2.5	114.67	-42.1	73.6	43.3	38.3	5.03	8.604		
1,000.0	985.4	1,000.6	986.7	3.1	3.1	110.13	-52.4	103.9	51.7	45.5	6.19	8.359		
1,100.0	1,080.6	1,100.1	1,080.4	3.7	3.7	105.30	-63.3	135.6	60.3	52.9	7.43	8.120		
1,200.0	1,175.8	1,199.7	1,174.1	4.4	4.4	101.69	-74.1	167.3	69.3	60.6	8.70	7.962		
1,300.0	1,271.0	1,299.2	1,267.8	5.0	5.0	98.92	-84.9	199.0	78.5	68.5	9.98	7.859		
1,400.0	1,366.2	1,398.7	1,361.5	5.6	5.7	96.73	-95.8	230.7	87.8	76.5	11.27	7.791		
1,500.0	1,461.4	1,498.2	1,455.2	6.2	6.4	94.96	-106.6	262.4	97.2	84.6	12.55	7.745		
1,600.0	1,556.6	1,597.7	1,548.9	6.8	7.1	93.51	-117.5	294.1	106.7	92.8	13.83	7.714		
1,700.0	1,651.8	1,697.2	1,642.6	7.5	7.8	92.29	-128.3	325.8	116.2	101.1	15.11	7.693		
1,800.0	1,747.0	1,796.8	1,736.3	8.1	8.5	91.26	-139.1	357.5	125.8	109.4	16.38	7.679		
1,900.0	1,842.2	1,896.3	1,830.0	8.7	9.2	90.37	-150.0	389.2	135.4	117.8	17.66	7.669		
2,000.0	1,937.4	1,995.8	1,923.8	9.4	9.9	89.61	-160.8	420.9	145.1	126.1	18.93	7.663		
2,100.0	2,032.6	2,095.3	2,017.5	10.0	10.6	88.93	-171.6	452.6	154.8	134.5	20.20	7.659		
2,200.0	2,127.8	2,194.8	2,111.2	10.6	11.3	88.34	-182.5	484.2	164.4	143.0	21.48	7.657		
2,300.0	2,223.0	2,294.3	2,204.9	11.3	12.0	87.82	-193.3	515.9	174.2	151.4	22.75	7.656	SF	
2,400.0	2,318.2	2,393.9	2,298.6	11.9	12.7	87.34	-204.2	547.6	183.9	159.9	24.02	7.656		
2,500.0	2,413.4	2,493.4	2,392.3	12.5	13.4	86.92	-215.0	579.3	193.6	168.3	25.29	7.657		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 32C-1
Project:	Garfield County, CO	TVD Reference:	KB=20' @ 8349.0usft (Patterson #303)
Reference Site:	S1-T7S-R97W (Mesa E1 797)	MD Reference:	KB=20' @ 8349.0usft (Patterson #303)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 32C-1	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 #1	Offset TVD Reference:	Offset Datum

Offset Design S1-T7S-R97W (Mesa E1 797) - PUCKETT 33C-1 - DD - Plan #1													Offset Site Error:	0.0 usft
Survey Program: 0-ISWWSA 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	-149.94	-27.3	-15.8	31.6					
100.0	100.0	100.0	100.0	0.1	0.1	-149.94	-27.3	-15.8	31.6	31.4	0.18	175.524		
200.0	200.0	200.0	200.0	0.3	0.3	-149.94	-27.3	-15.8	31.6	30.9	0.63	50.150		
241.2	241.2	241.2	241.2	0.4	0.4	-149.94	-27.3	-15.8	31.6	30.7	0.81	38.743 CC		
300.0	300.0	299.9	299.9	0.5	0.5	-151.12	-27.7	-15.3	31.6	30.5	1.07	29.517 ES		
400.0	400.0	399.7	399.5	0.8	0.7	111.68	-30.5	-10.9	33.3	31.8	1.50	22.183		
500.0	499.6	499.2	498.4	1.0	1.0	107.03	-36.2	-2.2	38.0	36.0	1.99	19.088		
600.0	598.8	598.2	596.3	1.3	1.3	103.48	-44.7	10.7	45.7	43.1	2.58	17.699		
700.0	697.1	696.8	692.8	1.6	1.7	101.10	-55.9	27.7	56.2	52.9	3.30	17.004		
800.0	794.3	794.9	787.5	2.0	2.2	99.60	-69.7	48.7	69.4	65.2	4.19	16.577		
900.0	890.2	892.2	880.2	2.6	2.7	98.70	-86.0	73.6	85.3	80.1	5.25	16.252		
1,000.0	985.4	988.8	970.5	3.1	3.4	97.08	-104.7	102.2	103.4	96.9	6.43	16.073		
1,100.0	1,080.6	1,086.7	1,061.1	3.7	4.1	94.74	-125.1	133.2	122.6	114.9	7.67	15.988		
1,200.0	1,175.8	1,184.7	1,151.8	4.4	4.9	93.03	-145.5	164.3	141.9	133.0	8.92	15.917		
1,300.0	1,271.0	1,282.8	1,242.5	5.0	5.6	91.73	-165.9	195.4	161.4	151.2	10.18	15.859		
1,400.0	1,366.2	1,380.8	1,333.2	5.6	6.4	90.72	-186.3	226.5	180.9	169.5	11.44	15.812 SF		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 32C-1
Project:	Garfield County, CO	TVD Reference:	KB=20' @ 8349.0usft (Patterson #303)
Reference Site:	S1-T7S-R97W (Mesa E1 797)	MD Reference:	KB=20' @ 8349.0usft (Patterson #303)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 32C-1	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 #1	Offset TVD Reference:	Offset Datum

Offset Design S1-T7S-R97W (Mesa E1 797) - PUCKETT 34A-1 - DD - Plan #1													Offset Site Error:	0.0 usft
Survey Program: 0-ISWWSA 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	-150.27	-34.6	-19.8	39.9					
100.0	100.0	100.0	100.0	0.1	0.1	-150.27	-34.6	-19.8	39.9	39.7	0.18	221.623		
200.0	200.0	200.0	200.0	0.3	0.3	-150.27	-34.6	-19.8	39.9	39.2	0.63	63.321		
300.0	300.0	300.0	300.0	0.5	0.5	-150.27	-34.6	-19.8	39.9	38.8	1.08	36.937 CC, ES		
400.0	400.0	400.0	400.0	0.8	0.8	120.71	-34.6	-19.8	41.1	39.6	1.54	26.767		
500.0	499.6	499.5	499.4	1.0	1.0	125.83	-36.4	-17.9	45.8	43.8	2.02	22.688		
600.0	598.8	598.9	598.6	1.3	1.2	128.62	-41.7	-12.2	54.2	51.7	2.56	21.203		
700.0	697.1	698.1	696.9	1.6	1.4	129.47	-50.5	-2.9	66.2	63.0	3.19	20.766		
800.0	794.3	796.9	794.0	2.0	1.8	129.09	-62.8	10.2	81.5	77.6	3.93	20.740		
900.0	890.2	895.0	889.5	2.6	2.2	128.07	-78.3	26.7	100.2	95.4	4.81	20.824		
1,000.0	985.4	992.6	983.1	3.1	2.7	126.11	-97.1	46.6	120.5	114.7	5.78	20.844		
1,100.0	1,080.6	1,089.5	1,074.6	3.7	3.2	122.69	-119.0	69.9	141.4	134.5	6.89	20.514		
1,200.0	1,175.8	1,185.2	1,163.2	4.4	3.9	118.47	-143.7	96.1	163.5	155.4	8.13	20.120		
1,300.0	1,271.0	1,280.2	1,249.6	5.0	4.7	113.95	-171.0	125.0	187.4	178.0	9.44	19.850 SF		

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 32C-1
Project:	Garfield County, CO	TVD Reference:	KB=20' @ 8349.0usft (Patterson #303)
Reference Site:	S1-T7S-R97W (Mesa E1 797)	MD Reference:	KB=20' @ 8349.0usft (Patterson #303)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 32C-1	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 #1	Offset TVD Reference:	Offset Datum

Offset Design S1-T7S-R97W (Mesa E1 797) - PUCKETT SWD E1-797 - VH - 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	-150.65	-55.7	-31.3	63.9				
100.0	100.0	100.0	100.0	0.1	0.1	-150.65	-55.7	-31.3	63.9	63.8	0.18	355.549	
200.0	200.0	200.0	200.0	0.3	0.3	-150.65	-55.7	-31.3	63.9	63.3	0.63	101.586	
300.0	300.0	300.0	300.0	0.5	0.5	-150.65	-55.7	-31.3	63.9	62.9	1.08	59.258 CC, ES	
400.0	400.0	400.0	400.0	0.8	0.8	119.14	-55.7	-31.3	65.2	63.6	1.53	42.458	
500.0	499.6	499.6	499.6	1.0	1.0	124.70	-55.7	-31.3	69.3	67.3	2.03	34.070	
600.0	598.8	598.8	598.8	1.3	1.2	132.43	-55.7	-31.3	77.5	74.9	2.61	29.709	
700.0	697.1	697.1	697.1	1.6	1.4	140.63	-55.7	-31.3	90.9	87.7	3.25	27.991 SF	
800.0	794.3	794.3	794.3	2.0	1.7	147.99	-55.7	-31.3	110.1	106.2	3.91	28.121	
900.0	890.2	890.2	890.2	2.6	1.9	154.01	-55.7	-31.3	135.2	130.6	4.57	29.553	
1,000.0	985.4	985.4	985.4	3.1	2.1	158.69	-55.7	-31.3	163.4	158.4	5.08	32.188	
1,100.0	1,080.6	1,080.6	1,080.6	3.7	2.3	161.99	-55.7	-31.3	192.4	186.9	5.57	34.560	

Cathedral Energy Services

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT 32C-1
Project:	Garfield County, CO	TVD Reference:	KB=20' @ 8349.0usft (Patterson #303)
Reference Site:	S1-T7S-R97W (Mesa E1 797)	MD Reference:	KB=20' @ 8349.0usft (Patterson #303)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT 32C-1	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 #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB=20' @ 8349.0usft (Patterson #303)
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000 °

Coordinates are relative to: PUCKETT 32C-1
Coordinate System is US State Plane 1927 (Exact solution), Colorado Central 502
Grid Convergence at Surface is: -1.69°

