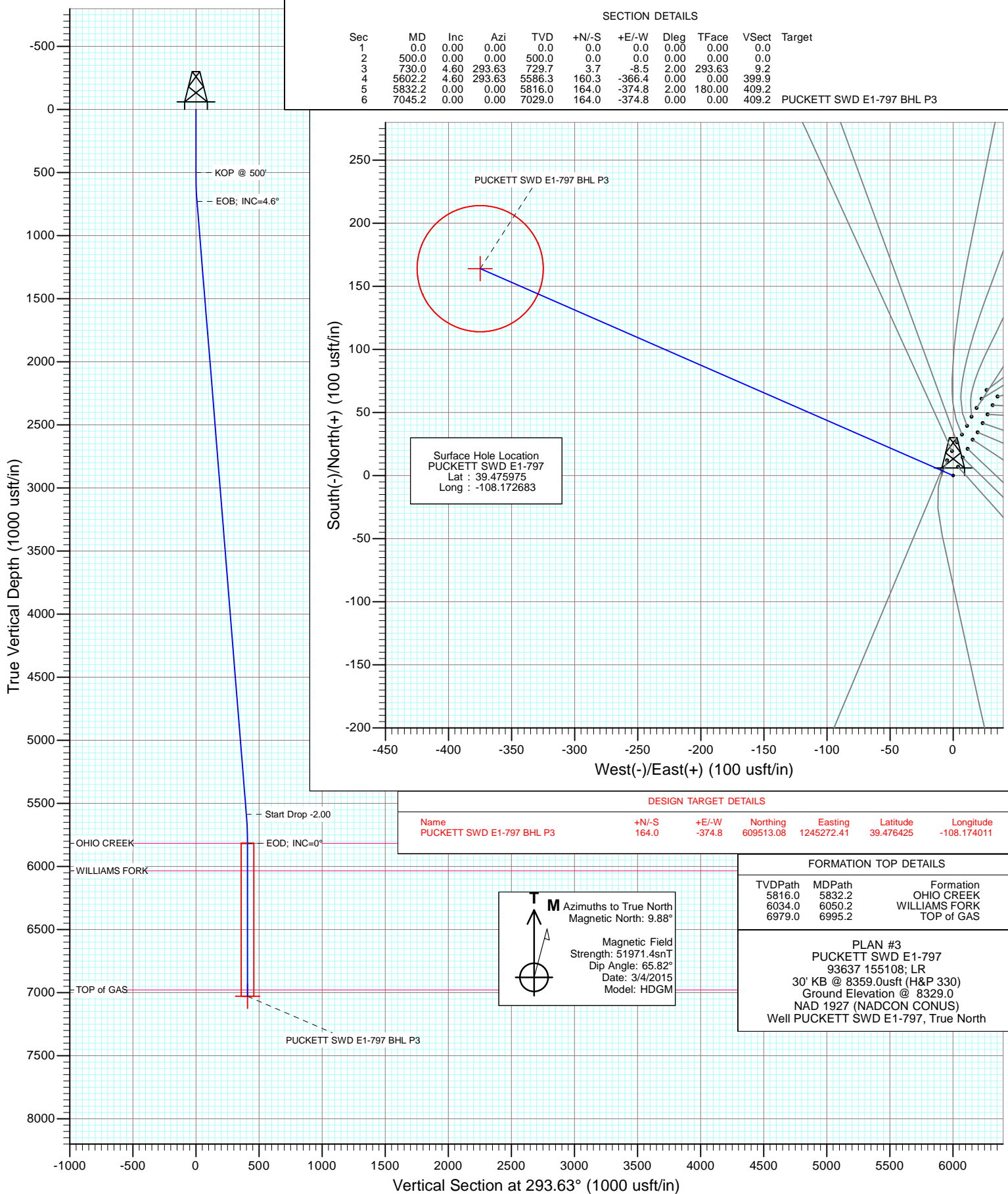




Project: Garfield County, CO
Site: S1-T7S-R97W (Mesa E1 797)
Well: PUCKETT SWD E1-797
Design: PLAN #3



Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well PUCKETT SWD E1-797
Company:	Caerus Oil & Gas (NAD 27)	TVD Reference:	30' KB @ 8359.0usft (H&P 330)
Project:	Garfield County, CO	MD Reference:	30' KB @ 8359.0usft (H&P 330)
Site:	S1-T7S-R97W (Mesa E1 797)	North Reference:	True
Well:	PUCKETT SWD E1-797	Survey Calculation Method:	Minimum Curvature
Wellbore:	VH		
Design:	PLAN #3		

Project	Garfield County, CO		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Colorado Central 502		

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

Well	PUCKETT SWD E1-797					
Well Position	+N/-S	0.0 usft	Northing:	609,338.13 usft	Latitude:	39.475975
	+E/-W	0.0 usft	Easting:	1,245,642.28 usft	Longitude:	-108.172683
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	8,329.0 usft

Wellbore	VH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	HDGM	3/4/2015	9.88	65.82	51,971

Design	PLAN #3			
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	293.63

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	
500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.00	0.00	
730.0	4.60	293.63	729.7	3.7	-8.5	2.00	2.00	0.00	293.63	
5,602.2	4.60	293.63	5,586.3	160.3	-366.4	0.00	0.00	0.00	0.00	
5,832.2	0.00	0.00	5,816.0	164.0	-374.8	2.00	-2.00	0.00	180.00	
7,045.2	0.00	0.00	7,029.0	164.0	-374.8	0.00	0.00	0.00	0.00	PUCKETT SWD E1-7

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well PUCKETT SWD E1-797
Company:	Caerus Oil & Gas (NAD 27)	TVD Reference:	30' KB @ 8359.0usft (H&P 330)
Project:	Garfield County, CO	MD Reference:	30' KB @ 8359.0usft (H&P 330)
Site:	S1-T7S-R97W (Mesa E1 797)	North Reference:	True
Well:	PUCKETT SWD E1-797	Survey Calculation Method:	Minimum Curvature
Wellbore:	VH		
Design:	PLAN #3		

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	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	KOP @ 500'
600.0	2.00	293.63	600.0	0.7	-1.6	1.7	2.00	2.00	
700.0	4.00	293.63	699.8	2.8	-6.4	7.0	2.00	2.00	
730.0	4.60	293.63	729.7	3.7	-8.5	9.2	2.00	2.00	EOB; INC=4.6°
800.0	4.60	293.63	799.5	5.9	-13.6	14.8	0.00	0.00	
900.0	4.60	293.63	899.2	9.2	-20.9	22.9	0.00	0.00	
1,000.0	4.60	293.63	998.9	12.4	-28.3	30.9	0.00	0.00	
1,100.0	4.60	293.63	1,098.6	15.6	-35.6	38.9	0.00	0.00	
1,200.0	4.60	293.63	1,198.2	18.8	-43.0	46.9	0.00	0.00	
1,300.0	4.60	293.63	1,297.9	22.0	-50.3	54.9	0.00	0.00	
1,400.0	4.60	293.63	1,397.6	25.2	-57.7	63.0	0.00	0.00	
1,500.0	4.60	293.63	1,497.3	28.4	-65.0	71.0	0.00	0.00	
1,600.0	4.60	293.63	1,597.0	31.7	-72.4	79.0	0.00	0.00	
1,700.0	4.60	293.63	1,696.6	34.9	-79.7	87.0	0.00	0.00	
1,800.0	4.60	293.63	1,796.3	38.1	-87.1	95.0	0.00	0.00	
1,900.0	4.60	293.63	1,896.0	41.3	-94.4	103.0	0.00	0.00	
2,000.0	4.60	293.63	1,995.7	44.5	-101.8	111.1	0.00	0.00	
2,100.0	4.60	293.63	2,095.3	47.7	-109.1	119.1	0.00	0.00	
2,200.0	4.60	293.63	2,195.0	50.9	-116.4	127.1	0.00	0.00	
2,300.0	4.60	293.63	2,294.7	54.2	-123.8	135.1	0.00	0.00	
2,400.0	4.60	293.63	2,394.4	57.4	-131.1	143.1	0.00	0.00	
2,500.0	4.60	293.63	2,494.1	60.6	-138.5	151.2	0.00	0.00	
2,600.0	4.60	293.63	2,593.7	63.8	-145.8	159.2	0.00	0.00	
2,700.0	4.60	293.63	2,693.4	67.0	-153.2	167.2	0.00	0.00	
2,800.0	4.60	293.63	2,793.1	70.2	-160.5	175.2	0.00	0.00	
2,900.0	4.60	293.63	2,892.8	73.4	-167.9	183.2	0.00	0.00	
3,000.0	4.60	293.63	2,992.4	76.7	-175.2	191.3	0.00	0.00	
3,100.0	4.60	293.63	3,092.1	79.9	-182.6	199.3	0.00	0.00	
3,200.0	4.60	293.63	3,191.8	83.1	-189.9	207.3	0.00	0.00	
3,300.0	4.60	293.63	3,291.5	86.3	-197.3	215.3	0.00	0.00	
3,400.0	4.60	293.63	3,391.2	89.5	-204.6	223.3	0.00	0.00	
3,500.0	4.60	293.63	3,490.8	92.7	-212.0	231.4	0.00	0.00	
3,600.0	4.60	293.63	3,590.5	95.9	-219.3	239.4	0.00	0.00	
3,700.0	4.60	293.63	3,690.2	99.2	-226.6	247.4	0.00	0.00	
3,800.0	4.60	293.63	3,789.9	102.4	-234.0	255.4	0.00	0.00	
3,900.0	4.60	293.63	3,889.5	105.6	-241.3	263.4	0.00	0.00	
4,000.0	4.60	293.63	3,989.2	108.8	-248.7	271.4	0.00	0.00	
4,100.0	4.60	293.63	4,088.9	112.0	-256.0	279.5	0.00	0.00	
4,200.0	4.60	293.63	4,188.6	115.2	-263.4	287.5	0.00	0.00	
4,300.0	4.60	293.63	4,288.3	118.4	-270.7	295.5	0.00	0.00	
4,400.0	4.60	293.63	4,387.9	121.7	-278.1	303.5	0.00	0.00	
4,500.0	4.60	293.63	4,487.6	124.9	-285.4	311.5	0.00	0.00	
4,600.0	4.60	293.63	4,587.3	128.1	-292.8	319.6	0.00	0.00	
4,700.0	4.60	293.63	4,687.0	131.3	-300.1	327.6	0.00	0.00	
4,800.0	4.60	293.63	4,786.6	134.5	-307.5	335.6	0.00	0.00	
4,900.0	4.60	293.63	4,886.3	137.7	-314.8	343.6	0.00	0.00	
5,000.0	4.60	293.63	4,986.0	140.9	-322.2	351.6	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well PUCKETT SWD E1-797
Company:	Caerus Oil & Gas (NAD 27)	TVD Reference:	30' KB @ 8359.0usft (H&P 330)
Project:	Garfield County, CO	MD Reference:	30' KB @ 8359.0usft (H&P 330)
Site:	S1-T7S-R97W (Mesa E1 797)	North Reference:	True
Well:	PUCKETT SWD E1-797	Survey Calculation Method:	Minimum Curvature
Wellbore:	VH		
Design:	PLAN #3		

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	4.60	293.63	5,085.7	144.2	-329.5	359.7	0.00	0.00	
5,200.0	4.60	293.63	5,185.4	147.4	-336.8	367.7	0.00	0.00	
5,300.0	4.60	293.63	5,285.0	150.6	-344.2	375.7	0.00	0.00	
5,400.0	4.60	293.63	5,384.7	153.8	-351.5	383.7	0.00	0.00	
5,500.0	4.60	293.63	5,484.4	157.0	-358.9	391.7	0.00	0.00	
5,600.0	4.60	293.63	5,584.1	160.2	-366.2	399.8	0.00	0.00	
5,602.2	4.60	293.63	5,586.3	160.3	-366.4	399.9	0.00	0.00	Start Drop -2.00
5,700.0	2.64	293.63	5,683.9	162.8	-372.1	406.1	2.00	-2.00	
5,800.0	0.64	293.63	5,783.8	163.9	-374.7	409.0	2.00	-2.00	
5,832.2	0.00	0.00	5,816.0	164.0	-374.8	409.2	2.00	-2.00	EOD; INC=0° - OHIO CREEK
5,900.0	0.00	0.00	5,883.8	164.0	-374.8	409.2	0.00	0.00	
6,000.0	0.00	0.00	5,983.8	164.0	-374.8	409.2	0.00	0.00	
6,050.2	0.00	0.00	6,034.0	164.0	-374.8	409.2	0.00	0.00	WILLIAMS FORK
6,100.0	0.00	0.00	6,083.8	164.0	-374.8	409.2	0.00	0.00	
6,200.0	0.00	0.00	6,183.8	164.0	-374.8	409.2	0.00	0.00	
6,300.0	0.00	0.00	6,283.8	164.0	-374.8	409.2	0.00	0.00	
6,400.0	0.00	0.00	6,383.8	164.0	-374.8	409.2	0.00	0.00	
6,500.0	0.00	0.00	6,483.8	164.0	-374.8	409.2	0.00	0.00	
6,600.0	0.00	0.00	6,583.8	164.0	-374.8	409.2	0.00	0.00	
6,700.0	0.00	0.00	6,683.8	164.0	-374.8	409.2	0.00	0.00	
6,800.0	0.00	0.00	6,783.8	164.0	-374.8	409.2	0.00	0.00	
6,900.0	0.00	0.00	6,883.8	164.0	-374.8	409.2	0.00	0.00	
6,995.2	0.00	0.00	6,979.0	164.0	-374.8	409.2	0.00	0.00	TOP of GAS
7,000.0	0.00	0.00	6,983.8	164.0	-374.8	409.2	0.00	0.00	
7,037.2	0.00	0.00	7,021.0	164.0	-374.8	409.2	0.00	0.00	PUCKETT SWD E1-797 BHL P2
7,045.2	0.00	0.00	7,029.0	164.0	-374.8	409.2	0.00	0.00	TD at 7045.2 - PUCKETT SWD E1-797 BHL - F

Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PUCKETT SWD E1-797 - hit/miss target - Shape	0.00	0.00	8,329.0	0.0	0.0	609,338.15	1,245,642.28	39.475975	-108.172683
- plan misses target center by 1362.9usft at 7045.2usft MD (7029.0 TVD, 164.0 N, -374.8 E) - Circle (radius 50.0)									
PUCKETT SWD E1-797 - plan hits target center - Circle (radius 50.0)	0.00	0.00	7,029.0	164.0	-374.8	609,513.08	1,245,272.41	39.476425	-108.174011
PUCKETT SWD E1-797 - plan misses target center by 409.1usft at 7037.2usft MD (7021.0 TVD, 164.0 N, -374.8 E) - Circle (radius 50.0)	0.00	0.00	7,021.0	0.0	0.0	609,338.15	1,245,642.28	39.475975	-108.172683

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well PUCKETT SWD E1-797
Company:	Caerus Oil & Gas (NAD 27)	TVD Reference:	30' KB @ 8359.0usft (H&P 330)
Project:	Garfield County, CO	MD Reference:	30' KB @ 8359.0usft (H&P 330)
Site:	S1-T7S-R97W (Mesa E1 797)	North Reference:	True
Well:	PUCKETT SWD E1-797	Survey Calculation Method:	Minimum Curvature
Wellbore:	VH		
Design:	PLAN #3		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
5,832.2	5,816.0	OHIO CREEK		0.00		
6,050.2	6,034.0	WILLIAMS FORK		0.00		
6,995.2	6,979.0	TOP of GAS		0.00		

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
500.0	500.0	0.0	0.0	KOP @ 500'	
730.0	729.7	3.7	-8.5	EOB; INC=4.6°	
5,602.2	5,586.3	160.3	-366.4	Start Drop -2.00	
5,832.2	5,816.0	164.0	-374.8	EOD; INC=0°	
7,045.2	7,029.0	164.0	-374.8	TD at 7045.2	

Caerus Oil & Gas (NAD 27)

Garfield County, CO

S1-T7S-R97W (Mesa E1 797)

PUCKETT SWD E1-797

VH

PLAN #3

Anticollision Report

27 March, 2015

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT SWD E1-797
Project:	Garfield County, CO	TVD Reference:	30' KB @ 8359.0usft (H&P 330)
Reference Site:	S1-T7S-R97W (Mesa E1 797)	MD Reference:	30' KB @ 8359.0usft (H&P 330)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT SWD E1-797	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	VH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #3	Offset TVD Reference:	Offset Datum

Reference	PLAN #3		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 1,000.0usft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program		Date	3/27/2015		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	7,029.0	PLAN #3 (VH)	ISCWSA MWD	MWD - Standard	

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT SWD E1-797
Project:	Garfield County, CO	TVD Reference:	30' KB @ 8359.0usft (H&P 330)
Reference Site:	S1-T7S-R97W (Mesa E1 797)	MD Reference:	30' KB @ 8359.0usft (H&P 330)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT SWD E1-797	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	VH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #3	Offset TVD Reference:	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance		Separation Factor	Warning
			Between Centres (usft)	Between Ellipses (usft)		
S1-T7S-R97W (Mesa E1 797)						
EXISTING - PUCKETT 22B-1 - EXISTING - GYRO	100.0	33.2	717.6	717.5	6,167.308	CC
EXISTING - PUCKETT 22B-1 - EXISTING - GYRO	200.0	131.3	717.9	717.4	1,474.595	ES
EXISTING - PUCKETT 22B-1 - EXISTING - GYRO	7,045.2	7,018.5	911.2	878.8	28.122	SF
EXISTING - PUCKETT 241-1 - EXISTING - GYRO						Out of range
EXISTING - PUCKETT 245-1 - no surveys - EXISITING -						Out of range
EXISTING - PUCKETT 246-1 - no surveys - EXISTING -						Out of range
EXISTING - PUCKETT 255-1 - no surveys - EXISTING -						Out of range
EXISTING - PUCKETT 262-1 - no surveys - EXISTING -						Out of range
EXISTING - PUCKETT 264-1 - no surveys - EXISTING -						Out of range
EXISTING - PUCKETT 797-1 1 - no surveys - EXISTING						Out of range
PUCKETT 11B-1 - DD - Plan #1	200.0	190.0	26.4	25.8	44.351	CC, ES
PUCKETT 11B-1 - DD - Plan #1	400.0	387.1	35.0	33.5	23.221	SF
PUCKETT 11C-1 - DD - Plan #1	305.4	295.4	19.3	18.3	18.076	CC, ES
PUCKETT 11C-1 - DD - Plan #1	500.0	488.1	26.0	24.1	13.352	SF
PUCKETT 13B-1 - DD - Plan #1	279.9	269.9	10.0	9.1	10.650	CC
PUCKETT 13B-1 - DD - Plan #1	300.0	290.0	10.1	9.0	9.781	ES
PUCKETT 13B-1 - DD - Plan #1	400.0	389.5	12.9	11.4	8.757	SF
PUCKETT 21A-1 - HZ - Plan #1	300.0	290.0	40.9	39.8	39.092	CC, ES
PUCKETT 21A-1 - HZ - Plan #1	600.0	583.1	59.1	56.7	24.331	SF
PUCKETT 21C-1 - DD - Plan #1	344.5	334.5	48.9	47.6	39.265	CC, ES
PUCKETT 21C-1 - DD - Plan #1	600.0	583.5	62.3	59.9	25.819	SF
PUCKETT 21D-1 - DD - Plan #1	400.0	390.0	56.7	55.2	37.934	CC, ES
PUCKETT 21D-1 - DD - Plan #1	700.0	679.5	77.7	74.9	27.137	SF
PUCKETT 22A-36 - DD - Plan #1	260.8	250.8	33.2	32.3	38.198	CC
PUCKETT 22A-36 - DD - Plan #1	300.0	289.8	33.2	32.2	31.821	ES
PUCKETT 22A-36 - DD - Plan #1	500.0	486.1	43.5	41.6	22.282	SF
PUCKETT 22C-1 - DD - Plan #1	500.0	490.0	55.7	53.7	28.625	CC
PUCKETT 22C-1 - DD - Plan #1	600.0	590.0	55.9	53.5	23.401	ES
PUCKETT 22C-1 - DD - Plan #1	900.0	886.3	72.4	68.7	19.429	SF
PUCKETT 22D-1 - DD - Plan #1	500.0	490.0	39.4	37.5	20.264	CC, ES
PUCKETT 22D-1 - DD - Plan #1	700.0	688.1	44.3	41.5	15.717	SF
PUCKETT 23A-1 - DD - Plan #1	571.9	562.0	16.0	13.8	7.125	CC
PUCKETT 23A-1 - DD - Plan #1	600.0	590.0	16.1	13.8	6.806	ES, SF
PUCKETT 23B-1 - DD - Plan #1	505.6	495.6	7.6	5.6	3.884	CC, ES, SF
PUCKETT 23C-1 - DD - Plan #1	502.6	492.9	8.6	6.7	4.497	CC, ES, SF
PUCKETT 31B-1 - DD - Plan #1	200.0	190.0	72.8	72.2	122.160	CC, ES
PUCKETT 31B-1 - DD - Plan #1	600.0	572.8	107.4	104.9	42.974	SF
PUCKETT 31C-1 - DD - Plan #1	244.5	234.5	64.9	64.1	81.552	CC, ES
PUCKETT 31C-1 - DD - Plan #1	600.0	577.7	90.1	87.6	36.511	SF
PUCKETT 32A-1 - DD - Plan #1	205.8	195.8	71.9	71.3	115.635	CC, ES
PUCKETT 32A-1 - DD - Plan #1	700.0	669.1	118.5	115.5	39.196	SF
PUCKETT 32C-1 - DD - Plan #1	300.0	290.0	63.9	62.9	61.174	CC, ES
PUCKETT 32C-1 - DD - Plan #1	700.0	677.7	92.1	89.1	31.127	SF
PUCKETT 33A-1 - DD - Plan #1	313.4	303.4	47.7	46.6	43.138	CC
PUCKETT 33A-1 - DD - Plan #1	400.0	389.7	47.9	46.4	32.228	ES
PUCKETT 33A-1 - DD - Plan #1	600.0	586.9	54.8	52.4	22.780	SF
PUCKETT 33C-1 - DD - Plan #1	359.8	349.8	32.3	31.0	24.791	CC
PUCKETT 33C-1 - DD - Plan #1	400.0	389.9	32.4	30.9	21.873	ES
PUCKETT 33C-1 - DD - Plan #1	600.0	586.6	43.7	41.2	17.562	SF
PUCKETT 34A-1 - DD - Plan #1	540.1	530.3	23.4	21.3	11.176	CC, ES
PUCKETT 34A-1 - DD - Plan #1	600.0	589.8	24.4	22.1	10.342	SF

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

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT SWD E1-797
Project:	Garfield County, CO	TVD Reference:	30' KB @ 8359.0usft (H&P 330)
Reference Site:	S1-T7S-R97W (Mesa E1 797)	MD Reference:	30' KB @ 8359.0usft (H&P 330)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT SWD E1-797	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	VH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #3	Offset TVD Reference:	Offset Datum

Offset Design S1-T7S-R97W (Mesa E1 797) - EXISTING - PUCKETT 22B-1 - EXISTING - GYRO													Offset Site Error:	0.0 usft
Survey Program: 100-ISCWSA MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Between Centres (usft)	Between Ellipses (usft)						
0.0	0.0	0.0	0.0	0.0	0.0	64.21	312.2	646.1	720.6					
100.0	100.0	33.2	33.2	0.1	0.0	64.21	312.2	646.1	717.6	0.12	6,167.308 CC			
200.0	200.0	131.3	131.3	0.3	0.2	64.23	312.0	646.5	717.9	0.49	1,474.595 ES			
300.0	300.0	228.1	228.1	0.5	0.4	64.28	311.7	647.2	718.4	0.93	774.134			
400.0	400.0	322.3	322.3	0.8	0.6	64.33	311.7	648.6	719.7	1.36	530.170			
500.0	500.0	422.5	422.5	1.0	0.8	64.38	311.8	650.3	721.3	1.79	402.938			
600.0	600.0	522.2	522.2	1.2	1.0	130.88	311.8	652.0	724.0	2.22	325.491			
700.0	699.8	618.4	618.3	1.4	1.2	131.15	312.0	654.0	729.3	2.66	273.860			
730.0	729.7	648.2	648.1	1.5	1.3	131.26	312.2	654.6	731.5	2.80	261.263			
800.0	799.5	717.2	717.1	1.7	1.4	131.60	312.5	656.1	736.7	3.10	237.377			
900.0	899.2	814.4	814.3	1.9	1.6	132.06	313.4	658.3	744.5	3.54	210.210			
1,000.0	998.9	917.4	917.3	2.1	1.9	132.50	314.7	660.3	752.2	3.99	188.401			
1,100.0	1,098.6	1,017.7	1,017.5	2.4	2.1	132.85	316.8	661.6	759.6	4.44	171.121			
1,200.0	1,198.2	1,117.2	1,117.0	2.7	2.3	133.13	319.5	662.6	767.1	4.89	156.767			
1,300.0	1,297.9	1,220.0	1,219.7	2.9	2.5	133.38	322.6	663.2	774.4	5.35	144.617			
1,400.0	1,397.6	1,319.8	1,319.5	3.2	2.7	133.60	325.9	663.7	781.6	5.81	134.486			
1,500.0	1,497.3	1,426.5	1,426.1	3.4	2.9	133.82	329.2	663.4	788.1	6.28	125.511			
1,600.0	1,597.0	1,525.9	1,525.5	3.7	3.1	134.05	331.9	663.1	794.4	6.73	118.107			
1,700.0	1,696.6	1,629.8	1,629.3	4.0	3.4	134.29	334.5	662.5	800.4	7.19	111.402			
1,800.0	1,796.3	1,735.1	1,734.6	4.2	3.6	134.52	337.0	661.3	805.8	7.65	105.338			
1,900.0	1,896.0	1,839.8	1,839.3	4.5	3.8	134.76	339.2	659.5	810.7	8.12	99.902			
2,000.0	1,995.7	1,945.5	1,944.9	4.8	4.0	134.96	341.4	656.8	814.8	8.58	94.905			
2,100.0	2,095.3	2,048.1	2,047.5	5.0	4.2	135.16	343.4	653.8	818.4	9.05	90.441			
2,200.0	2,195.0	2,156.9	2,156.2	5.3	4.5	135.35	345.6	649.9	821.5	9.53	86.195			
2,300.0	2,294.7	2,265.6	2,264.6	5.6	4.7	135.46	348.4	644.3	823.3	10.02	82.192			
2,400.0	2,394.4	2,364.8	2,363.7	5.8	4.9	135.48	351.7	638.3	824.6	10.49	78.640			
2,500.0	2,494.1	2,463.1	2,461.7	6.1	5.1	135.47	355.5	632.5	826.1	10.95	75.431			
2,600.0	2,593.7	2,562.3	2,560.7	6.4	5.4	135.43	359.9	626.5	827.8	11.43	72.446			
2,700.0	2,693.4	2,660.8	2,658.8	6.6	5.6	135.35	364.8	620.6	829.6	11.90	69.708			
2,800.0	2,793.1	2,758.8	2,756.5	6.9	5.8	135.26	369.8	614.8	831.7	12.38	67.205			
2,900.0	2,892.8	2,858.2	2,855.6	7.2	6.1	135.16	375.2	609.0	833.9	12.86	64.865			
3,000.0	2,992.4	2,957.7	2,954.8	7.4	6.3	135.04	380.9	603.1	836.2	13.34	62.671			
3,100.0	3,092.1	3,059.7	3,056.4	7.7	6.5	134.89	387.0	597.0	838.4	13.84	60.592			
3,200.0	3,191.8	3,162.2	3,158.5	8.0	6.8	134.71	393.5	590.3	840.3	14.34	58.594			
3,300.0	3,291.5	3,261.2	3,257.0	8.2	7.1	134.50	400.2	583.5	842.1	14.84	56.736			
3,400.0	3,391.2	3,356.9	3,352.2	8.5	7.3	134.26	407.2	577.0	844.2	15.34	55.043			
3,500.0	3,490.8	3,453.6	3,448.5	8.8	7.5	134.01	414.7	570.9	846.8	15.83	53.484			
3,600.0	3,590.5	3,550.7	3,545.0	9.0	7.8	133.76	422.4	564.9	849.7	16.33	52.031			
3,700.0	3,690.2	3,649.1	3,643.0	9.3	8.0	133.49	430.5	559.2	853.0	16.83	50.674			
3,800.0	3,789.9	3,747.0	3,740.3	9.6	8.3	133.23	438.4	553.5	856.4	17.33	49.403			
3,900.0	3,889.5	3,840.7	3,833.6	9.8	8.5	132.98	446.4	548.5	860.3	17.83	48.252			
4,000.0	3,989.2	3,936.2	3,928.6	10.1	8.8	132.69	455.2	543.9	865.0	18.34	47.170			
4,100.0	4,088.9	4,034.4	4,026.2	10.4	9.0	132.40	464.3	539.3	869.8	18.86	46.131			
4,200.0	4,188.6	4,129.5	4,120.8	10.7	9.3	132.11	473.4	535.1	875.1	19.37	45.191			
4,300.0	4,288.3	4,225.6	4,216.4	10.9	9.5	131.81	483.0	531.3	881.0	19.88	44.312			
4,400.0	4,387.9	4,325.5	4,315.7	11.2	9.8	131.47	493.5	527.3	887.0	20.42	43.447			
4,500.0	4,487.6	4,426.9	4,416.3	11.5	10.1	131.11	504.4	522.9	893.0	20.96	42.608			
4,600.0	4,587.3	4,527.9	4,516.6	11.7	10.4	130.74	515.4	518.3	898.8	21.50	41.811			
4,700.0	4,687.0	4,630.6	4,618.7	12.0	10.7	130.37	526.4	513.6	904.5	22.04	41.044			
4,800.0	4,786.6	4,740.6	4,728.1	12.3	10.9	130.11	536.0	508.5	909.4	22.58	40.281			
4,900.0	4,886.3	4,847.1	4,834.2	12.5	11.2	129.98	543.1	503.5	913.3	23.08	39.571			

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

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT SWD E1-797
Project:	Garfield County, CO	TVD Reference:	30' KB @ 8359.0usft (H&P 330)
Reference Site:	S1-T7S-R97W (Mesa E1 797)	MD Reference:	30' KB @ 8359.0usft (H&P 330)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT SWD E1-797	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	VH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #3	Offset TVD Reference:	Offset Datum

Offset Design S1-T7S-R97W (Mesa E1 797) - EXISTING - PUCKETT 22B-1 - EXISTING - GYRO													Offset Site Error:	0.0 usft
Survey Program: 100-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		
5,000.0	4,986.0	4,950.3	4,937.1	12.8	11.4	129.91	548.9	498.7	916.8	893.2	23.57	38.893		
5,100.0	5,085.7	5,050.8	5,037.4	13.1	11.7	129.88	554.1	493.9	920.0	895.9	24.06	38.243		
5,200.0	5,185.4	5,149.7	5,136.1	13.3	11.9	129.84	559.3	489.3	923.3	898.7	24.54	37.617		
5,300.0	5,285.0	5,249.6	5,235.8	13.6	12.1	129.81	564.5	484.7	926.6	901.6	25.04	37.013		
5,400.0	5,384.7	5,349.6	5,335.5	13.9	12.4	129.77	569.7	480.1	929.9	904.4	25.52	36.439		
5,500.0	5,484.4	5,448.5	5,434.1	14.1	12.6	129.77	574.5	475.7	933.3	907.3	26.00	35.902		
5,602.2	5,586.3	5,550.0	5,535.5	14.4	12.8	129.78	579.1	471.5	936.9	910.4	26.48	35.377		
5,700.0	5,683.9	5,646.4	5,631.7	14.6	13.1	129.76	583.4	467.7	939.3	912.4	26.92	34.886		
5,800.0	5,783.8	5,744.3	5,729.5	14.8	13.3	129.59	587.4	464.2	939.8	912.5	27.32	34.401		
5,832.2	5,816.0	5,776.1	5,761.3	14.9	13.3	63.13	588.5	463.2	939.5	912.1	27.44	34.238		
5,900.0	5,883.8	5,843.3	5,828.3	15.0	13.5	62.94	591.0	461.1	938.7	911.0	27.72	33.867		
6,000.0	5,983.8	5,942.7	5,927.7	15.2	13.7	62.66	594.6	458.0	937.7	909.5	28.15	33.315		
6,100.0	6,083.8	6,043.5	6,028.3	15.3	13.9	62.38	598.3	454.9	936.6	908.0	28.57	32.777		
6,200.0	6,183.8	6,145.4	6,130.1	15.5	14.2	62.14	601.1	452.0	935.4	906.4	29.00	32.259		
6,300.0	6,283.8	6,248.8	6,233.5	15.7	14.4	61.93	603.4	449.1	933.9	904.5	29.41	31.752		
6,400.0	6,383.8	6,353.4	6,338.0	15.9	14.6	61.75	605.1	445.9	932.0	902.2	29.83	31.242		
6,500.0	6,483.8	6,457.2	6,441.8	16.1	14.8	61.58	606.2	442.5	929.6	899.4	30.25	30.735		
6,600.0	6,583.8	6,558.5	6,543.0	16.3	15.0	61.45	606.8	439.1	926.9	896.3	30.65	30.240		
6,700.0	6,683.8	6,662.0	6,646.5	16.5	15.2	61.36	606.6	435.8	924.1	893.0	31.06	29.752		
6,800.0	6,783.8	6,765.0	6,749.4	16.7	15.4	61.31	605.8	432.4	920.8	889.3	31.46	29.266		
6,900.0	6,883.8	6,868.1	6,852.4	16.9	15.6	61.28	604.4	429.0	917.2	885.3	31.86	28.786		
7,000.0	6,983.8	6,972.3	6,956.5	17.1	15.8	61.27	602.6	425.2	913.2	880.9	32.27	28.301		
7,045.2	7,029.0	7,018.5	7,002.7	17.1	15.9	61.26	601.7	423.4	911.2	878.8	32.40	28.122 SF		

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT SWD E1-797
Project:	Garfield County, CO	TVD Reference:	30' KB @ 8359.0usft (H&P 330)
Reference Site:	S1-T7S-R97W (Mesa E1 797)	MD Reference:	30' KB @ 8359.0usft (H&P 330)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT SWD E1-797	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	VH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #3	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				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.0	0.0	0.0	0.0	0.0	0.0	6.75	26.2	3.1	28.2					
100.0	100.0	90.0	90.0	0.1	0.1	6.75	26.2	3.1	26.4	26.3	0.16	165.536		
200.0	200.0	190.0	190.0	0.3	0.3	6.75	26.2	3.1	26.4	25.8	0.60	44.351	CC, ES	
300.0	300.0	288.8	288.8	0.5	0.5	4.87	28.2	2.4	28.3	27.3	1.04	27.134		
400.0	400.0	387.1	386.8	0.8	0.8	-0.04	34.8	0.0	35.0	33.5	1.51	23.221	SF	
500.0	500.0	484.3	483.3	1.0	1.0	-5.11	46.1	-4.1	46.8	44.7	2.01	23.250		
600.0	600.0	580.4	577.8	1.2	1.4	58.39	61.7	-9.8	62.7	60.2	2.51	25.025		
700.0	699.8	675.0	670.1	1.4	1.7	57.92	81.5	-17.0	81.8	78.8	3.01	27.144		
730.0	729.7	703.1	697.3	1.5	1.9	58.02	88.1	-19.4	88.1	84.9	3.17	27.794		
800.0	799.5	768.4	760.1	1.7	2.2	58.39	105.1	-25.6	104.2	100.6	3.55	29.359		
900.0	899.2	865.0	852.4	1.9	2.7	58.60	131.7	-35.3	128.8	124.7	4.09	31.477		
1,000.0	998.9	961.9	945.0	2.1	3.3	58.75	158.5	-45.0	153.4	148.8	4.64	33.087		
1,100.0	1,098.6	1,058.8	1,037.7	2.4	3.8	58.85	185.2	-54.7	178.1	172.9	5.19	34.291		
1,200.0	1,198.2	1,155.7	1,130.3	2.7	4.4	58.93	211.9	-64.4	202.7	196.9	5.75	35.221		
1,300.0	1,297.9	1,252.6	1,223.0	2.9	5.0	58.99	238.6	-74.2	227.3	221.0	6.32	35.951		
1,400.0	1,397.6	1,349.6	1,315.7	3.2	5.5	59.04	265.3	-83.9	252.0	245.1	6.90	36.542		
1,500.0	1,497.3	1,446.5	1,408.3	3.4	6.1	59.08	292.0	-93.6	276.6	269.1	7.47	37.030		
1,600.0	1,597.0	1,543.4	1,501.0	3.7	6.6	59.12	318.7	-103.3	301.2	293.2	8.05	37.438		
1,700.0	1,696.6	1,640.3	1,593.6	4.0	7.2	59.15	345.4	-113.0	325.9	317.2	8.62	37.786		
1,800.0	1,796.3	1,737.2	1,686.3	4.2	7.8	59.17	372.1	-122.8	350.5	341.3	9.20	38.085		
1,900.0	1,896.0	1,834.1	1,778.9	4.5	8.4	59.20	398.8	-132.5	375.1	365.3	9.78	38.346		
2,000.0	1,995.7	1,931.1	1,871.6	4.8	8.9	59.21	425.5	-142.2	399.8	389.4	10.36	38.575		
2,100.0	2,095.3	2,028.0	1,964.3	5.0	9.5	59.23	452.2	-151.9	424.4	413.5	10.94	38.779		
2,200.0	2,195.0	2,124.9	2,056.9	5.3	10.1	59.25	478.9	-161.6	449.0	437.5	11.53	38.962		
2,300.0	2,294.7	2,221.8	2,149.6	5.6	10.6	59.26	505.7	-171.4	473.7	461.6	12.11	39.126		
2,400.0	2,394.4	2,318.7	2,242.2	5.8	11.2	59.27	532.4	-181.1	498.3	485.6	12.69	39.276		
2,500.0	2,494.1	2,415.7	2,334.9	6.1	11.8	59.28	559.1	-190.8	522.9	509.7	13.27	39.413		
2,600.0	2,593.7	2,512.6	2,427.5	6.4	12.3	59.29	585.8	-200.5	547.6	533.7	13.85	39.538		
2,700.0	2,693.4	2,609.5	2,520.2	6.6	12.9	59.30	612.5	-210.2	572.2	557.8	14.43	39.654		
2,800.0	2,793.1	2,706.4	2,612.9	6.9	13.5	59.31	639.2	-220.0	596.8	581.8	15.01	39.762		
2,900.0	2,892.8	2,803.3	2,705.5	7.2	14.1	59.32	665.9	-229.7	621.5	605.9	15.59	39.863		
3,000.0	2,992.4	2,900.2	2,798.2	7.4	14.6	59.32	692.6	-239.4	646.1	629.9	16.17	39.956		
3,100.0	3,092.1	2,997.2	2,890.8	7.7	15.2	59.33	719.3	-249.1	670.7	654.0	16.75	40.045		
3,200.0	3,191.8	3,094.1	2,983.5	8.0	15.8	59.34	746.0	-258.8	695.4	678.1	17.33	40.128		
3,300.0	3,291.5	3,191.0	3,076.1	8.2	16.3	59.34	772.7	-268.5	720.0	702.1	17.91	40.207		
3,400.0	3,391.2	3,287.9	3,168.8	8.5	16.9	59.35	799.4	-278.3	744.6	726.2	18.49	40.282		
3,500.0	3,490.8	3,384.8	3,261.5	8.8	17.5	59.35	826.1	-288.0	769.3	750.2	19.06	40.353		
3,600.0	3,590.5	3,481.8	3,354.1	9.0	18.1	59.36	852.9	-297.7	793.9	774.3	19.64	40.420		
3,700.0	3,690.2	3,578.7	3,446.8	9.3	18.6	59.36	879.6	-307.4	818.6	798.3	20.22	40.485		
3,800.0	3,789.9	3,675.6	3,539.4	9.6	19.2	59.37	906.3	-317.1	843.2	822.4	20.80	40.548		
3,900.0	3,889.5	3,772.5	3,632.1	9.8	19.8	59.37	933.0	-326.9	867.8	846.4	21.37	40.607		
4,000.0	3,989.2	3,869.4	3,724.7	10.1	20.4	59.37	959.7	-336.6	892.5	870.5	21.95	40.665		
4,100.0	4,088.9	3,966.3	3,817.4	10.4	20.9	59.38	986.4	-346.3	917.1	894.6	22.52	40.720		
4,200.0	4,188.6	4,063.3	3,910.1	10.7	21.5	59.38	1,013.1	-356.0	941.7	918.6	23.10	40.774		
4,300.0	4,288.3	4,160.2	4,002.7	10.9	22.1	59.38	1,039.8	-365.7	966.4	942.7	23.67	40.826		
4,400.0	4,387.9	4,257.1	4,095.4	11.2	22.6	59.39	1,066.5	-375.5	991.0	966.7	24.24	40.876		

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT SWD E1-797
Project:	Garfield County, CO	TVD Reference:	30' KB @ 8359.0usft (H&P 330)
Reference Site:	S1-T7S-R97W (Mesa E1 797)	MD Reference:	30' KB @ 8359.0usft (H&P 330)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT SWD E1-797	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	VH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #3	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	-2.51	19.3	-0.8	21.8					
100.0	100.0	90.0	90.0	0.1	0.1	-2.51	19.3	-0.8	19.3	19.2	0.16	121.140		
200.0	200.0	190.0	190.0	0.3	0.3	-2.51	19.3	-0.8	19.3	18.7	0.60	32.456		
300.0	300.0	290.0	290.0	0.5	0.5	-2.51	19.3	-0.8	19.3	18.3	1.05	18.497		
305.4	305.4	295.4	295.4	0.5	0.5	-2.51	19.3	-0.8	19.3	18.3	1.07	18.076 CC, ES		
400.0	400.0	389.4	389.4	0.8	0.7	-3.65	20.3	-1.3	20.4	18.9	1.49	13.634		
500.0	500.0	488.1	487.9	1.0	1.0	-8.26	25.6	-3.7	26.0	24.1	1.95	13.352 SF		
600.0	600.0	586.1	585.2	1.2	1.2	55.41	35.5	-8.2	35.8	33.3	2.43	14.701		
700.0	699.8	683.2	681.1	1.4	1.5	55.81	49.8	-14.7	48.5	45.6	2.92	16.615		
730.0	729.7	712.1	709.4	1.5	1.6	56.20	54.9	-17.0	52.9	49.9	3.07	17.229		
800.0	799.5	779.1	774.8	1.7	1.9	56.90	68.2	-23.1	64.7	61.3	3.43	18.849		
900.0	899.2	877.0	869.8	1.9	2.3	57.15	89.6	-32.8	83.6	79.7	3.96	21.116		
1,000.0	998.9	975.2	965.2	2.1	2.8	57.31	111.1	-42.6	102.6	98.1	4.49	22.860		
1,100.0	1,098.6	1,073.4	1,060.5	2.4	3.2	57.41	132.6	-52.3	121.5	116.5	5.02	24.186		
1,200.0	1,198.2	1,171.5	1,155.8	2.7	3.7	57.49	154.1	-62.1	140.5	134.9	5.57	25.228		
1,300.0	1,297.9	1,269.7	1,251.1	2.9	4.2	57.55	175.6	-71.9	159.4	153.3	6.12	26.058		
1,400.0	1,397.6	1,367.9	1,346.4	3.2	4.6	57.60	197.1	-81.6	178.3	171.7	6.67	26.737		
1,500.0	1,497.3	1,466.1	1,441.7	3.4	5.1	57.63	218.6	-91.4	197.3	190.1	7.23	27.302		
1,600.0	1,597.0	1,564.3	1,537.0	3.7	5.6	57.67	240.1	-101.2	216.2	208.5	7.78	27.779		
1,700.0	1,696.6	1,662.5	1,632.3	4.0	6.1	57.69	261.6	-110.9	235.2	226.8	8.34	28.186		
1,800.0	1,796.3	1,760.7	1,727.6	4.2	6.6	57.71	283.1	-120.7	254.1	245.2	8.90	28.539		
1,900.0	1,896.0	1,858.9	1,822.9	4.5	7.0	57.73	304.6	-130.5	273.1	263.6	9.47	28.847		
2,000.0	1,995.7	1,957.1	1,918.2	4.8	7.5	57.75	326.0	-140.2	292.0	282.0	10.03	29.119		
2,100.0	2,095.3	2,055.2	2,013.5	5.0	8.0	57.76	347.5	-150.0	311.0	300.4	10.59	29.361		
2,200.0	2,195.0	2,153.4	2,108.9	5.3	8.5	57.78	369.0	-159.7	329.9	318.8	11.15	29.577		
2,300.0	2,294.7	2,251.6	2,204.2	5.6	9.0	57.79	390.5	-169.5	348.9	337.2	11.72	29.772		
2,400.0	2,394.4	2,349.8	2,299.5	5.8	9.5	57.80	412.0	-179.3	367.8	355.5	12.28	29.949		
2,500.0	2,494.1	2,448.0	2,394.8	6.1	10.0	57.81	433.5	-189.0	386.8	373.9	12.84	30.111		
2,600.0	2,593.7	2,546.2	2,490.1	6.4	10.5	57.82	455.0	-198.8	405.7	392.3	13.41	30.258		
2,700.0	2,693.4	2,644.4	2,585.4	6.6	10.9	57.82	476.5	-208.6	424.7	410.7	13.97	30.395		
2,800.0	2,793.1	2,742.6	2,680.7	6.9	11.4	57.83	498.0	-218.3	443.6	429.1	14.53	30.520		
2,900.0	2,892.8	2,840.7	2,776.0	7.2	11.9	57.84	519.5	-228.1	462.6	447.5	15.10	30.637		
3,000.0	2,992.4	2,938.9	2,871.3	7.4	12.4	57.84	541.0	-237.9	481.5	465.8	15.66	30.746		
3,100.0	3,092.1	3,037.1	2,966.6	7.7	12.9	57.85	562.5	-247.6	500.4	484.2	16.22	30.847		
3,200.0	3,191.8	3,135.3	3,061.9	8.0	13.4	57.85	583.9	-257.4	519.4	502.6	16.79	30.943		
3,300.0	3,291.5	3,233.5	3,157.3	8.2	13.9	57.86	605.4	-267.2	538.3	521.0	17.35	31.032		
3,400.0	3,391.2	3,331.7	3,252.6	8.5	14.4	57.86	626.9	-276.9	557.3	539.4	17.91	31.117		
3,500.0	3,490.8	3,429.9	3,347.9	8.8	14.9	57.87	648.4	-286.7	576.2	557.8	18.47	31.197		
3,600.0	3,590.5	3,528.1	3,443.2	9.0	15.4	57.87	669.9	-296.5	595.2	576.2	19.03	31.273		
3,700.0	3,690.2	3,626.3	3,538.5	9.3	15.8	57.87	691.4	-306.2	614.1	594.5	19.59	31.344		
3,800.0	3,789.9	3,724.4	3,633.8	9.6	16.3	57.88	712.9	-316.0	633.1	612.9	20.15	31.413		
3,900.0	3,889.5	3,822.6	3,729.1	9.8	16.8	57.88	734.4	-325.8	652.0	631.3	20.71	31.478		
4,000.0	3,989.2	3,920.8	3,824.4	10.1	17.3	57.88	755.9	-335.5	671.0	649.7	21.27	31.541		
4,100.0	4,088.9	4,019.0	3,919.7	10.4	17.8	57.89	777.4	-345.3	689.9	668.1	21.83	31.600		
4,200.0	4,188.6	4,117.2	4,015.0	10.7	18.3	57.89	798.9	-355.1	708.9	686.5	22.39	31.658		
4,300.0	4,288.3	4,215.4	4,110.3	10.9	18.8	57.89	820.4	-364.8	727.8	704.9	22.95	31.713		
4,400.0	4,387.9	4,313.6	4,205.6	11.2	19.3	57.90	841.8	-374.6	746.8	723.3	23.51	31.766		
4,500.0	4,487.6	4,411.8	4,301.0	11.5	19.8	57.90	863.3	-384.4	765.7	741.6	24.07	31.817		
4,600.0	4,587.3	4,510.0	4,396.3	11.7	20.3	57.90	884.8	-394.1	784.7	760.0	24.62	31.866		
4,700.0	4,687.0	4,608.1	4,491.6	12.0	20.7	57.90	906.3	-403.9	803.6	778.4	25.18	31.914		
4,800.0	4,786.6	4,706.3	4,586.9	12.3	21.2	57.90	927.8	-413.6	822.6	796.8	25.74	31.960		
4,900.0	4,886.3	4,804.5	4,682.2	12.5	21.7	57.91	949.3	-423.4	841.5	815.2	26.29	32.005		

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

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT SWD E1-797
Project:	Garfield County, CO	TVD Reference:	30' KB @ 8359.0usft (H&P 330)
Reference Site:	S1-T7S-R97W (Mesa E1 797)	MD Reference:	30' KB @ 8359.0usft (H&P 330)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT SWD E1-797	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	VH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #3	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-ISWWSA MWD													Offset Well Error: 0.0 usft	
Offset				Semi Major Axis			Distance						Warning	
Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)									
5,000.0	4,986.0	4,902.7	4,777.5	12.8	22.2	57.91	970.8	-433.2	860.4	833.6	26.85	32.048		
5,100.0	5,085.7	5,000.9	4,872.8	13.1	22.7	57.91	992.3	-442.9	879.4	852.0	27.40	32.090		
5,200.0	5,185.4	5,099.1	4,968.1	13.3	23.2	57.91	1,013.8	-452.7	898.3	870.4	27.96	32.131		
5,300.0	5,285.0	5,197.3	5,063.4	13.6	23.7	57.91	1,035.3	-462.5	917.3	888.8	28.51	32.171		
5,400.0	5,384.7	5,295.5	5,158.7	13.9	24.2	57.91	1,056.8	-472.2	936.2	907.2	29.07	32.209		
5,500.0	5,484.4	5,393.7	5,254.0	14.1	24.7	57.92	1,078.3	-482.0	955.2	925.6	29.62	32.247		
5,602.2	5,586.3	5,494.0	5,351.5	14.4	25.2	57.92	1,100.2	-492.0	974.6	944.4	30.19	32.285		
5,700.0	5,683.9	5,589.8	5,444.5	14.6	25.7	58.17	1,121.2	-501.5	993.9	963.3	30.67	32.407		

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT SWD E1-797
Project:	Garfield County, CO	TVD Reference:	30' KB @ 8359.0usft (H&P 330)
Reference Site:	S1-T7S-R97W (Mesa E1 797)	MD Reference:	30' KB @ 8359.0usft (H&P 330)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT SWD E1-797	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	VH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #3	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-ISCWSA MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
0.0	0.0	0.0	0.0	0.0	0.0	-59.73	5.1	-8.8	14.2					
100.0	100.0	90.0	90.0	0.1	0.1	-59.73	5.1	-8.8	10.1	10.0	0.16	63.495		
200.0	200.0	190.0	190.0	0.3	0.3	-59.73	5.1	-8.8	10.1	9.5	0.60	17.012		
279.9	279.9	269.9	269.9	0.5	0.5	-66.97	3.9	-9.2	10.0	9.1	0.94	10.650 CC		
300.0	300.0	290.0	290.0	0.5	0.5	-71.77	3.2	-9.6	10.1	9.0	1.03	9.781 ES		
400.0	400.0	389.5	389.2	0.8	0.7	-106.05	-3.6	-12.4	12.9	11.4	1.47	8.757 SF		
500.0	500.0	488.0	486.9	1.0	1.0	-131.04	-14.9	-17.1	22.9	20.9	1.97	11.617		
600.0	600.0	584.9	582.3	1.2	1.3	-78.05	-30.6	-23.7	39.0	36.6	2.46	15.865		
700.0	699.8	680.3	675.3	1.4	1.7	-87.00	-50.3	-31.9	60.6	57.7	2.96	20.471		
730.0	729.7	709.3	703.5	1.5	1.9	-89.11	-56.7	-34.6	67.8	64.7	3.11	21.764		
800.0	799.5	777.1	769.2	1.7	2.2	-93.16	-71.7	-40.8	84.7	81.3	3.46	24.479		
900.0	899.2	873.8	863.1	1.9	2.7	-96.74	-93.1	-49.8	109.4	105.4	3.98	27.526		
1,000.0	998.9	970.5	957.0	2.1	3.1	-99.01	-114.5	-58.7	134.3	129.8	4.50	29.829		
1,100.0	1,098.6	1,067.3	1,050.9	2.4	3.6	-100.56	-136.0	-67.7	159.4	154.4	5.04	31.607		
1,200.0	1,198.2	1,164.0	1,144.8	2.7	4.1	-101.69	-157.4	-76.6	184.6	179.0	5.59	33.011		
1,300.0	1,297.9	1,260.7	1,238.7	2.9	4.6	-102.55	-178.8	-85.6	209.7	203.6	6.14	34.145		
1,400.0	1,397.6	1,357.5	1,332.6	3.2	5.1	-103.23	-200.2	-94.5	235.0	228.3	6.70	35.076		
1,500.0	1,497.3	1,454.2	1,426.5	3.4	5.6	-103.78	-221.7	-103.5	260.2	253.0	7.26	35.854		
1,600.0	1,597.0	1,550.9	1,520.4	3.7	6.0	-104.22	-243.1	-112.4	285.5	277.7	7.82	36.514		
1,700.0	1,696.6	1,647.7	1,614.4	4.0	6.5	-104.60	-264.5	-121.4	310.8	302.4	8.38	37.079		
1,800.0	1,796.3	1,744.4	1,708.3	4.2	7.0	-104.92	-285.9	-130.3	336.1	327.1	8.95	37.570		
1,900.0	1,896.0	1,841.1	1,802.2	4.5	7.5	-105.19	-307.4	-139.3	361.4	351.9	9.51	38.001		
2,000.0	1,995.7	1,937.9	1,896.1	4.8	8.0	-105.43	-328.8	-148.2	386.7	376.6	10.08	38.382		
2,100.0	2,095.3	2,034.6	1,990.0	5.0	8.5	-105.64	-350.2	-157.2	412.0	401.4	10.64	38.721		
2,200.0	2,195.0	2,131.3	2,083.9	5.3	9.0	-105.83	-371.6	-166.1	437.3	426.1	11.21	39.026		
2,300.0	2,294.7	2,228.1	2,177.8	5.6	9.5	-105.99	-393.1	-175.1	462.7	450.9	11.77	39.301		
2,400.0	2,394.4	2,324.8	2,271.7	5.8	10.0	-106.14	-414.5	-184.0	488.0	475.7	12.34	39.552		
2,500.0	2,494.1	2,421.5	2,365.6	6.1	10.4	-106.27	-435.9	-192.9	513.3	500.4	12.90	39.781		
2,600.0	2,593.7	2,518.2	2,459.5	6.4	10.9	-106.39	-457.3	-201.9	538.7	525.2	13.47	39.991		
2,700.0	2,693.4	2,615.0	2,553.4	6.6	11.4	-106.50	-478.8	-210.8	564.0	550.0	14.04	40.185		
2,800.0	2,793.1	2,711.7	2,647.3	6.9	11.9	-106.60	-500.2	-219.8	589.3	574.7	14.60	40.365		
2,900.0	2,892.8	2,808.4	2,741.2	7.2	12.4	-106.69	-521.6	-228.7	614.7	599.5	15.17	40.532		
3,000.0	2,992.4	2,905.2	2,835.1	7.4	12.9	-106.78	-543.0	-237.7	640.0	624.3	15.73	40.689		
3,100.0	3,092.1	3,001.9	2,929.0	7.7	13.4	-106.86	-564.5	-246.6	665.4	649.1	16.29	40.835		
3,200.0	3,191.8	3,098.6	3,022.9	8.0	13.9	-106.93	-585.9	-255.6	690.7	673.9	16.86	40.973		
3,300.0	3,291.5	3,195.4	3,116.8	8.2	14.4	-107.00	-607.3	-264.5	716.1	698.6	17.42	41.103		
3,400.0	3,391.2	3,292.1	3,210.7	8.5	14.9	-107.06	-628.7	-273.5	741.4	723.4	17.98	41.225		
3,500.0	3,490.8	3,388.8	3,304.6	8.8	15.4	-107.12	-650.2	-282.4	766.7	748.2	18.55	41.342		
3,600.0	3,590.5	3,485.6	3,398.5	9.0	15.8	-107.17	-671.6	-291.4	792.1	773.0	19.11	41.452		
3,700.0	3,690.2	3,582.3	3,492.4	9.3	16.3	-107.23	-693.0	-300.3	817.4	797.8	19.67	41.557		
3,800.0	3,789.9	3,679.0	3,586.3	9.6	16.8	-107.27	-714.4	-309.3	842.8	822.6	20.23	41.658		
3,900.0	3,889.5	3,775.8	3,680.2	9.8	17.3	-107.32	-735.9	-318.2	868.1	847.3	20.79	41.754		
4,000.0	3,989.2	3,872.5	3,774.1	10.1	17.8	-107.36	-757.3	-327.2	893.5	872.1	21.35	41.846		
4,100.0	4,088.9	3,969.2	3,868.0	10.4	18.3	-107.40	-778.7	-336.1	918.8	896.9	21.91	41.934		
4,200.0	4,188.6	4,066.0	3,961.9	10.7	18.8	-107.44	-800.1	-345.1	944.2	921.7	22.47	42.019		
4,300.0	4,288.3	4,162.7	4,055.9	10.9	19.3	-107.48	-821.6	-354.0	969.5	946.5	23.03	42.101		
4,400.0	4,387.9	4,259.4	4,149.8	11.2	19.8	-107.51	-843.0	-363.0	994.9	971.3	23.59	42.180		

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT SWD E1-797
Project:	Garfield County, CO	TVD Reference:	30' KB @ 8359.0usft (H&P 330)
Reference Site:	S1-T7S-R97W (Mesa E1 797)	MD Reference:	30' KB @ 8359.0usft (H&P 330)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT SWD E1-797	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	VH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #3	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-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	15.63	39.3	11.0	42.1					
100.0	100.0	90.0	90.0	0.1	0.1	15.63	39.3	11.0	40.9	40.7	0.16	256.024		
200.0	200.0	190.0	190.0	0.3	0.3	15.63	39.3	11.0	40.9	40.3	0.60	68.595		
300.0	300.0	290.0	290.0	0.5	0.5	15.63	39.3	11.0	40.9	39.8	1.05	39.092 CC, ES		
400.0	400.0	388.4	388.4	0.8	0.7	14.03	41.3	10.3	42.6	41.1	1.49	28.557		
500.0	500.0	486.2	485.9	1.0	1.0	9.38	47.9	7.9	48.7	46.7	1.94	25.036		
600.0	600.0	583.1	582.2	1.2	1.2	73.76	58.8	6.2	59.1	56.7	2.43	24.331 SF		
700.0	699.8	679.1	677.0	1.4	1.5	76.57	73.5	7.2	73.1	70.2	2.90	25.226		
730.0	729.7	707.5	704.9	1.5	1.6	77.91	78.6	8.0	78.1	75.1	3.05	25.658		
800.0	799.5	773.3	769.4	1.7	1.8	81.20	91.8	10.8	91.5	88.1	3.40	26.941		
900.0	899.2	865.5	858.8	1.9	2.2	85.02	113.4	16.8	114.9	111.0	3.92	29.319		
1,000.0	998.9	955.3	944.8	2.1	2.7	87.90	137.8	25.0	143.2	138.8	4.45	32.187		
1,100.0	1,098.6	1,048.5	1,033.1	2.4	3.2	90.12	165.5	35.2	174.8	169.8	5.00	34.990		
1,200.0	1,198.2	1,143.1	1,122.9	2.7	3.7	91.69	193.7	45.6	206.7	201.2	5.53	37.350		
1,300.0	1,297.9	1,237.8	1,212.6	2.9	4.3	92.84	222.0	56.0	238.7	232.6	6.08	39.245		
1,400.0	1,397.6	1,332.4	1,302.3	3.2	4.9	93.72	250.2	66.5	270.8	264.1	6.64	40.793		
1,500.0	1,497.3	1,427.1	1,392.1	3.4	5.4	94.41	278.5	76.9	302.9	295.7	7.20	42.078		
1,600.0	1,597.0	1,521.7	1,481.8	3.7	6.0	94.97	306.7	87.3	335.0	327.2	7.76	43.159		
1,700.0	1,696.6	1,616.4	1,571.5	4.0	6.6	95.44	335.0	97.8	367.2	358.8	8.33	44.079		
1,800.0	1,796.3	1,711.0	1,661.3	4.2	7.2	95.83	363.2	108.2	399.3	390.4	8.90	44.873		
1,900.0	1,896.0	1,805.7	1,751.0	4.5	7.8	96.16	391.5	118.6	431.5	422.1	9.47	45.564		
2,000.0	1,995.7	1,900.3	1,840.7	4.8	8.3	96.44	419.7	129.0	463.7	453.7	10.04	46.170		
2,100.0	2,095.3	1,995.0	1,930.5	5.0	8.9	96.69	448.0	139.5	495.9	485.3	10.62	46.708		
2,200.0	2,195.0	2,089.6	2,020.2	5.3	9.5	96.90	476.2	149.9	528.2	517.0	11.19	47.188		
2,300.0	2,294.7	2,184.3	2,109.9	5.6	10.1	97.10	504.5	160.3	560.4	548.6	11.77	47.619		
2,400.0	2,394.4	2,278.9	2,199.7	5.8	10.7	97.27	532.7	170.8	592.6	580.3	12.34	48.010		
2,500.0	2,494.1	2,373.5	2,289.4	6.1	11.3	97.42	560.9	181.2	624.9	611.9	12.92	48.365		
2,600.0	2,593.7	2,468.2	2,379.1	6.4	11.9	97.56	589.2	191.6	657.1	643.6	13.50	48.690		
2,700.0	2,693.4	2,562.8	2,468.9	6.6	12.5	97.69	617.4	202.1	689.3	675.3	14.07	48.988		
2,800.0	2,793.1	2,657.5	2,558.6	6.9	13.1	97.80	645.7	212.5	721.6	706.9	14.65	49.264		
2,900.0	2,892.8	2,752.1	2,648.3	7.2	13.6	97.91	673.9	222.9	753.8	738.6	15.22	49.519		
3,000.0	2,992.4	2,846.8	2,738.1	7.4	14.2	98.00	702.2	233.3	786.1	770.3	15.80	49.757		
3,100.0	3,092.1	2,941.4	2,827.8	7.7	14.8	98.09	730.4	243.8	818.3	802.0	16.37	49.979		
3,200.0	3,191.8	3,036.1	2,917.5	8.0	15.4	98.17	758.7	254.2	850.6	833.6	16.95	50.187		
3,300.0	3,291.5	3,130.7	3,007.2	8.2	16.0	98.25	786.9	264.6	882.8	865.3	17.52	50.383		
3,400.0	3,391.2	3,225.4	3,097.0	8.5	16.6	98.32	815.2	275.1	915.1	897.0	18.10	50.567		
3,500.0	3,490.8	3,320.0	3,186.7	8.8	17.2	98.38	843.4	285.5	947.3	928.7	18.67	50.741		
3,600.0	3,590.5	3,414.7	3,276.4	9.0	17.8	98.45	871.7	295.9	979.6	960.4	19.24	50.906		

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT SWD E1-797
Project:	Garfield County, CO	TVD Reference:	30' KB @ 8359.0usft (H&P 330)
Reference Site:	S1-T7S-R97W (Mesa E1 797)	MD Reference:	30' KB @ 8359.0usft (H&P 330)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT SWD E1-797	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	VH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #3	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-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	17.47	46.6	14.7	49.9					
100.0	100.0	90.0	90.0	0.1	0.1	17.47	46.6	14.7	48.9	48.7	0.16	306.337		
200.0	200.0	190.0	190.0	0.3	0.3	17.47	46.6	14.7	48.9	48.3	0.60	82.075		
300.0	300.0	290.0	290.0	0.5	0.5	17.47	46.6	14.7	48.9	47.8	1.05	46.774		
344.5	344.5	334.5	334.5	0.6	0.6	17.47	46.6	14.7	48.9	47.6	1.25	39.265	CC, ES	
400.0	400.0	389.1	389.1	0.8	0.7	17.30	47.0	14.6	49.3	47.8	1.49	33.011		
500.0	500.0	486.5	486.4	1.0	1.0	15.47	51.5	14.3	53.5	51.6	1.94	27.616		
600.0	600.0	583.5	582.9	1.2	1.2	80.70	60.6	14.0	62.3	59.9	2.41	25.819	SF	
700.0	699.8	679.6	678.1	1.4	1.5	83.83	73.3	16.6	75.1	72.2	2.87	26.133		
730.0	729.7	708.0	706.2	1.5	1.5	85.30	77.7	18.1	79.8	76.8	3.02	26.448		
800.0	799.5	773.9	771.0	1.7	1.8	88.92	89.0	22.5	92.5	89.1	3.36	27.497		
900.0	899.2	868.8	863.5	1.9	2.1	93.25	107.7	31.4	114.5	110.7	3.87	29.560		
1,000.0	998.9	965.8	958.1	2.1	2.5	96.33	127.4	40.9	137.7	133.3	4.38	31.442		
1,100.0	1,098.6	1,062.9	1,052.7	2.4	2.9	98.53	147.0	50.4	161.1	156.2	4.89	32.934		
1,200.0	1,198.2	1,159.9	1,147.2	2.7	3.4	100.16	166.6	59.9	184.7	179.3	5.41	34.123		
1,300.0	1,297.9	1,257.0	1,241.8	2.9	3.8	101.43	186.2	69.5	208.4	202.4	5.94	35.085		
1,400.0	1,397.6	1,354.1	1,336.4	3.2	4.2	102.43	205.8	79.0	232.2	225.7	6.47	35.876		
1,500.0	1,497.3	1,451.1	1,431.0	3.4	4.7	103.25	225.4	88.5	256.0	249.0	7.01	36.538		
1,600.0	1,597.0	1,548.2	1,525.6	3.7	5.1	103.94	245.0	98.0	279.9	272.3	7.54	37.097		
1,700.0	1,696.6	1,645.2	1,620.1	4.0	5.6	104.51	264.6	107.6	303.8	295.7	8.08	37.576		
1,800.0	1,796.3	1,742.3	1,714.7	4.2	6.0	105.00	284.2	117.1	327.7	319.1	8.63	37.991		
1,900.0	1,896.0	1,839.4	1,809.3	4.5	6.5	105.42	303.8	126.6	351.6	342.5	9.17	38.354		
2,000.0	1,995.7	1,936.4	1,903.9	4.8	6.9	105.79	323.4	136.1	375.6	365.9	9.71	38.674		
2,100.0	2,095.3	2,033.5	1,998.5	5.0	7.4	106.12	343.1	145.6	399.6	389.3	10.26	38.958		
2,200.0	2,195.0	2,130.5	2,093.0	5.3	7.8	106.40	362.7	155.2	423.6	412.8	10.80	39.213		
2,300.0	2,294.7	2,227.6	2,187.6	5.6	8.3	106.66	382.3	164.7	447.6	436.2	11.35	39.443		
2,400.0	2,394.4	2,324.7	2,282.2	5.8	8.7	106.89	401.9	174.2	471.6	459.7	11.89	39.652		
2,500.0	2,494.1	2,421.7	2,376.8	6.1	9.2	107.10	421.5	183.7	495.6	483.1	12.44	39.843		
2,600.0	2,593.7	2,518.8	2,471.4	6.4	9.6	107.29	441.1	193.3	519.6	506.6	12.98	40.018		
2,700.0	2,693.4	2,615.8	2,565.9	6.6	10.1	107.46	460.7	202.8	543.6	530.1	13.53	40.179		
2,800.0	2,793.1	2,712.9	2,660.5	6.9	10.5	107.62	480.3	212.3	567.6	553.5	14.07	40.328		
2,900.0	2,892.8	2,810.0	2,755.1	7.2	11.0	107.77	499.9	221.8	591.6	577.0	14.62	40.467		
3,000.0	2,992.4	2,907.0	2,849.7	7.4	11.4	107.90	519.5	231.4	615.7	600.5	15.17	40.597		
3,100.0	3,092.1	3,004.1	2,944.3	7.7	11.9	108.02	539.1	240.9	639.7	624.0	15.71	40.718		
3,200.0	3,191.8	3,101.1	3,038.9	8.0	12.3	108.14	558.7	250.4	663.7	647.5	16.26	40.832		
3,300.0	3,291.5	3,198.2	3,133.4	8.2	12.8	108.25	578.4	259.9	687.8	671.0	16.80	40.940		
3,400.0	3,391.2	3,295.3	3,228.0	8.5	13.2	108.35	598.0	269.4	711.8	694.5	17.34	41.042		
3,500.0	3,490.8	3,392.3	3,322.6	8.8	13.7	108.44	617.6	279.0	735.9	718.0	17.89	41.138		
3,600.0	3,590.5	3,489.4	3,417.2	9.0	14.1	108.53	637.2	288.5	759.9	741.5	18.43	41.230		
3,700.0	3,690.2	3,586.4	3,511.8	9.3	14.6	108.61	656.8	298.0	784.0	765.0	18.97	41.318		
3,800.0	3,789.9	3,683.5	3,606.3	9.6	15.0	108.69	676.4	307.5	808.0	788.5	19.52	41.401		
3,900.0	3,889.5	3,780.6	3,700.9	9.8	15.5	108.76	696.0	317.1	832.1	812.0	20.06	41.481		
4,000.0	3,989.2	3,877.6	3,795.5	10.1	16.0	108.83	715.6	326.6	856.1	835.5	20.60	41.558		
4,100.0	4,088.9	3,974.7	3,890.1	10.4	16.4	108.89	735.2	336.1	880.2	859.0	21.14	41.632		
4,200.0	4,188.6	4,071.7	3,984.7	10.7	16.9	108.95	754.8	345.6	904.2	882.5	21.68	41.703		
4,300.0	4,288.3	4,168.8	4,079.2	10.9	17.3	109.01	774.4	355.1	928.3	906.0	22.22	41.771		
4,400.0	4,387.9	4,265.9	4,173.8	11.2	17.8	109.07	794.0	364.7	952.3	929.5	22.76	41.838		
4,500.0	4,487.6	4,362.9	4,268.4	11.5	18.2	109.12	813.7	374.2	976.4	953.1	23.30	41.902		

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

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT SWD E1-797
Project:	Garfield County, CO	TVD Reference:	30' KB @ 8359.0usft (H&P 330)
Reference Site:	S1-T7S-R97W (Mesa E1 797)	MD Reference:	30' KB @ 8359.0usft (H&P 330)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT SWD E1-797	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	VH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #3	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-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	19.18	53.6	18.6	57.6					
100.0	100.0	90.0	90.0	0.1	0.1	19.18	53.6	18.6	56.7	56.5	0.16	355.296		
200.0	200.0	190.0	190.0	0.3	0.3	19.18	53.6	18.6	56.7	56.1	0.60	95.193		
300.0	300.0	290.0	290.0	0.5	0.5	19.18	53.6	18.6	56.7	55.7	1.05	54.250		
400.0	400.0	390.0	390.0	0.8	0.7	19.18	53.6	18.6	56.7	55.2	1.49	37.934 CC, ES		
500.0	500.0	487.4	487.4	1.0	1.0	19.65	55.2	19.7	58.7	56.8	1.94	30.286		
600.0	600.0	584.1	583.8	1.2	1.2	88.73	61.0	23.4	65.6	63.2	2.40	27.367		
700.0	699.8	679.5	678.5	1.4	1.4	93.77	70.7	29.7	77.7	74.9	2.86	27.137 SF		
730.0	729.7	707.8	706.5	1.5	1.5	95.44	74.3	32.1	82.5	79.5	3.01	27.423		
800.0	799.5	774.0	771.7	1.7	1.7	99.10	84.2	38.4	95.6	92.3	3.36	28.476		
900.0	899.2	871.7	867.6	1.9	2.1	102.95	99.5	48.3	115.9	112.0	3.85	30.133		
1,000.0	998.9	969.4	963.6	2.1	2.4	105.66	114.8	58.2	136.5	132.2	4.33	31.494		
1,100.0	1,098.6	1,067.1	1,059.5	2.4	2.8	107.66	130.2	68.1	157.3	152.5	4.83	32.564		
1,200.0	1,198.2	1,164.7	1,155.5	2.7	3.2	109.19	145.5	78.1	178.3	172.9	5.33	33.420		
1,300.0	1,297.9	1,262.4	1,251.4	2.9	3.5	110.39	160.9	88.0	199.3	193.5	5.84	34.107		
1,400.0	1,397.6	1,360.1	1,347.4	3.2	3.9	111.37	176.2	97.9	220.5	214.1	6.36	34.679		
1,500.0	1,497.3	1,457.8	1,443.3	3.4	4.3	112.17	191.5	107.8	241.7	234.8	6.87	35.156		
1,600.0	1,597.0	1,555.5	1,539.3	3.7	4.7	112.85	206.9	117.7	262.9	255.5	7.39	35.558		
1,700.0	1,696.6	1,653.1	1,635.3	4.0	5.1	113.42	222.2	127.6	284.1	276.2	7.91	35.903		
1,800.0	1,796.3	1,750.8	1,731.2	4.2	5.5	113.92	237.6	137.5	305.4	297.0	8.44	36.202		
1,900.0	1,896.0	1,848.5	1,827.2	4.5	5.9	114.35	252.9	147.4	326.7	317.7	8.96	36.463		
2,000.0	1,995.7	1,946.2	1,923.1	4.8	6.3	114.73	268.2	157.3	348.0	338.5	9.48	36.693		
2,100.0	2,095.3	2,043.9	2,019.1	5.0	6.7	115.06	283.6	167.3	369.3	359.3	10.01	36.898		
2,200.0	2,195.0	2,141.5	2,115.0	5.3	7.1	115.36	298.9	177.2	390.6	380.1	10.53	37.082		
2,300.0	2,294.7	2,239.2	2,211.0	5.6	7.5	115.62	314.3	187.1	412.0	400.9	11.06	37.247		
2,400.0	2,394.4	2,336.9	2,307.0	5.8	7.9	115.86	329.6	197.0	433.3	421.7	11.59	37.398		
2,500.0	2,494.1	2,434.6	2,402.9	6.1	8.3	116.08	345.0	206.9	454.7	442.6	12.11	37.535		
2,600.0	2,593.7	2,532.3	2,498.9	6.4	8.7	116.28	360.3	216.8	476.0	463.4	12.64	37.661		
2,700.0	2,693.4	2,629.9	2,594.8	6.6	9.1	116.46	375.6	226.7	497.4	484.2	13.17	37.778		
2,800.0	2,793.1	2,727.6	2,690.8	6.9	9.4	116.63	391.0	236.6	518.8	505.1	13.69	37.886		
2,900.0	2,892.8	2,825.3	2,786.7	7.2	9.8	116.78	406.3	246.5	540.2	525.9	14.22	37.986		
3,000.0	2,992.4	2,923.0	2,882.7	7.4	10.2	116.92	421.7	256.5	561.5	546.8	14.75	38.080		
3,100.0	3,092.1	3,020.7	2,978.7	7.7	10.6	117.05	437.0	266.4	582.9	567.6	15.27	38.169		
3,200.0	3,191.8	3,118.3	3,074.6	8.0	11.0	117.18	452.3	276.3	604.3	588.5	15.80	38.252		
3,300.0	3,291.5	3,216.0	3,170.6	8.2	11.4	117.29	467.7	286.2	625.7	609.4	16.32	38.330		
3,400.0	3,391.2	3,313.7	3,266.5	8.5	11.8	117.40	483.0	296.1	647.1	630.2	16.85	38.405		
3,500.0	3,490.8	3,411.4	3,362.5	8.8	12.2	117.49	498.4	306.0	668.4	651.1	17.37	38.475		
3,600.0	3,590.5	3,509.1	3,458.4	9.0	12.6	117.59	513.7	315.9	689.8	671.9	17.90	38.543		
3,700.0	3,690.2	3,606.7	3,554.4	9.3	13.0	117.68	529.0	325.8	711.2	692.8	18.42	38.607		
3,800.0	3,789.9	3,704.4	3,650.4	9.6	13.4	117.76	544.4	335.7	732.6	713.7	18.95	38.669		
3,900.0	3,889.5	3,802.1	3,746.3	9.8	13.8	117.84	559.7	345.7	754.0	734.6	19.47	38.728		
4,000.0	3,989.2	3,899.8	3,842.3	10.1	14.2	117.91	575.1	355.6	775.4	755.4	19.99	38.785		
4,100.0	4,088.9	3,997.5	3,938.2	10.4	14.6	117.98	590.4	365.5	796.8	776.3	20.52	38.839		
4,200.0	4,188.6	4,095.1	4,034.2	10.7	15.0	118.04	605.7	375.4	818.2	797.2	21.04	38.892		
4,300.0	4,288.3	4,192.8	4,130.1	10.9	15.4	118.11	621.1	385.3	839.6	818.1	21.56	38.943		
4,400.0	4,387.9	4,290.5	4,226.1	11.2	15.8	118.17	636.4	395.2	861.0	838.9	22.08	38.993		
4,500.0	4,487.6	4,388.2	4,322.1	11.5	16.2	118.22	651.8	405.1	882.4	859.8	22.60	39.041		
4,600.0	4,587.3	4,485.8	4,418.0	11.7	16.6	118.28	667.1	415.0	903.8	880.7	23.12	39.087		
4,700.0	4,687.0	4,583.5	4,514.0	12.0	17.0	118.33	682.4	425.0	925.2	901.6	23.64	39.133		
4,800.0	4,786.6	4,681.2	4,609.9	12.3	17.4	118.38	697.8	434.9	946.6	922.5	24.16	39.177		
4,900.0	4,886.3	4,778.9	4,705.9	12.5	17.8	118.42	713.1	444.8	968.0	943.3	24.68	39.220		
5,000.0	4,986.0	4,876.6	4,801.8	12.8	18.2	118.47	728.5	454.7	989.4	964.2	25.20	39.262		

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

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT SWD E1-797
Project:	Garfield County, CO	TVD Reference:	30' KB @ 8359.0usft (H&P 330)
Reference Site:	S1-T7S-R97W (Mesa E1 797)	MD Reference:	30' KB @ 8359.0usft (H&P 330)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT SWD E1-797	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	VH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #3	Offset TVD Reference:	Offset Datum

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT SWD E1-797
Project:	Garfield County, CO	TVD Reference:	30' KB @ 8359.0usft (H&P 330)
Reference Site:	S1-T7S-R97W (Mesa E1 797)	MD Reference:	30' KB @ 8359.0usft (H&P 330)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT SWD E1-797	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	VH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #3	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-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	12.28	32.4	7.1	34.7					
100.0	100.0	90.0	90.0	0.1	0.1	12.28	32.4	7.1	33.2	33.0	0.16	207.974		
200.0	200.0	190.0	190.0	0.3	0.3	12.28	32.4	7.1	33.2	32.6	0.60	55.721		
260.8	260.8	250.8	250.8	0.4	0.4	12.28	32.4	7.1	33.2	32.3	0.87	38.198 CC		
300.0	300.0	289.8	289.8	0.5	0.5	12.22	32.5	7.0	33.2	32.2	1.04	31.821 ES		
400.0	400.0	388.2	388.2	0.8	0.7	9.27	35.5	5.8	36.1	34.6	1.49	24.186		
500.0	500.0	486.1	485.7	1.0	1.0	3.59	43.2	2.7	43.5	41.6	1.95	22.282 SF		
600.0	600.0	583.0	581.8	1.2	1.2	67.81	55.4	0.0	55.4	52.9	2.45	22.631		
700.0	699.8	678.8	676.1	1.4	1.6	70.26	71.9	-0.8	70.7	67.8	2.93	24.158		
730.0	729.7	707.2	703.9	1.5	1.7	71.43	77.6	-0.8	76.0	72.9	3.07	24.720		
800.0	799.5	772.9	767.9	1.7	1.9	74.28	92.4	0.0	90.1	86.7	3.43	26.249		
900.0	899.2	864.9	856.7	1.9	2.3	77.41	116.4	2.5	114.5	110.6	3.96	28.909		
1,000.0	998.9	954.4	941.9	2.1	2.8	79.68	143.6	6.5	143.7	139.2	4.50	31.922		
1,100.0	1,098.6	1,041.2	1,023.2	2.4	3.4	81.33	173.5	11.8	177.3	172.3	5.06	35.047		
1,200.0	1,198.2	1,130.6	1,105.8	2.7	4.0	82.58	207.1	18.5	214.5	208.9	5.62	38.144		
1,300.0	1,297.9	1,223.2	1,191.2	2.9	4.6	83.51	242.2	25.6	252.2	246.0	6.18	40.772		
1,400.0	1,397.6	1,315.8	1,276.6	3.2	5.3	84.20	277.3	32.6	289.8	283.1	6.75	42.906		
1,500.0	1,497.3	1,408.4	1,362.0	3.4	5.9	84.73	312.3	39.7	327.5	320.2	7.33	44.669		
1,600.0	1,597.0	1,501.0	1,447.4	3.7	6.6	85.15	347.4	46.7	365.2	357.3	7.91	46.148		
1,700.0	1,696.6	1,593.6	1,532.8	4.0	7.3	85.49	382.5	53.8	402.9	394.4	8.50	47.402		
1,800.0	1,796.3	1,686.2	1,618.2	4.2	8.0	85.78	417.6	60.8	440.7	431.6	9.09	48.480		
1,900.0	1,896.0	1,778.8	1,703.6	4.5	8.6	86.01	452.7	67.9	478.4	468.7	9.68	49.417		
2,000.0	1,995.7	1,871.4	1,789.0	4.8	9.3	86.22	487.8	74.9	516.1	505.9	10.27	50.238		
2,100.0	2,095.3	1,964.0	1,874.4	5.0	10.0	86.39	522.9	82.0	553.9	543.0	10.87	50.964		
2,200.0	2,195.0	2,056.5	1,959.7	5.3	10.7	86.55	557.9	89.0	591.6	580.2	11.46	51.610		
2,300.0	2,294.7	2,149.1	2,045.1	5.6	11.4	86.68	593.0	96.1	629.4	617.3	12.06	52.191		
2,400.0	2,394.4	2,241.7	2,130.5	5.8	12.1	86.80	628.1	103.1	667.1	654.5	12.66	52.714		
2,500.0	2,494.1	2,334.3	2,215.9	6.1	12.7	86.91	663.2	110.2	704.9	691.6	13.25	53.190		
2,600.0	2,593.7	2,426.9	2,301.3	6.4	13.4	87.01	698.3	117.2	742.6	728.8	13.85	53.624		
2,700.0	2,693.4	2,519.5	2,386.7	6.6	14.1	87.09	733.4	124.3	780.4	766.0	14.45	54.022		
2,800.0	2,793.1	2,612.1	2,472.1	6.9	14.8	87.17	768.5	131.3	818.2	803.1	15.04	54.389		
2,900.0	2,892.8	2,704.7	2,557.5	7.2	15.5	87.24	803.5	138.4	855.9	840.3	15.64	54.728		
3,000.0	2,992.4	2,797.3	2,642.9	7.4	16.2	87.31	838.6	145.4	893.7	877.5	16.24	55.043		
3,100.0	3,092.1	2,889.9	2,728.3	7.7	16.9	87.37	873.7	152.5	931.5	914.6	16.83	55.337		
3,200.0	3,191.8	2,982.4	2,813.7	8.0	17.6	87.43	908.8	159.5	969.2	951.8	17.43	55.612		

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT SWD E1-797
Project:	Garfield County, CO	TVD Reference:	30' KB @ 8359.0usft (H&P 330)
Reference Site:	S1-T7S-R97W (Mesa E1 797)	MD Reference:	30' KB @ 8359.0usft (H&P 330)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT SWD E1-797	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	VH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #3	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-ISCSWA MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Uncertainty Axis	Factor		
0.0	0.0	0.0	0.0	0.0	0.0	29.47	48.5	27.4	56.5					
100.0	100.0	90.0	90.0	0.1	0.1	29.47	48.5	27.4	55.7	55.5	0.16	348.743		
200.0	200.0	190.0	190.0	0.3	0.3	29.47	48.5	27.4	55.7	55.1	0.60	93.437		
300.0	300.0	290.0	290.0	0.5	0.5	29.47	48.5	27.4	55.7	54.6	1.05	53.249		
400.0	400.0	390.0	390.0	0.8	0.7	29.47	48.5	27.4	55.7	54.2	1.49	37.234		
500.0	500.0	490.0	490.0	1.0	1.0	29.47	48.5	27.4	55.7	53.7	1.94	28.625 CC		
600.0	600.0	590.0	590.0	1.2	1.2	97.62	48.5	27.4	55.9	53.5	2.39	23.401 ES		
700.0	699.8	688.3	688.3	1.4	1.4	104.40	48.4	29.4	58.0	55.2	2.82	20.548		
730.0	729.7	717.8	717.7	1.5	1.5	107.64	48.3	31.0	59.5	56.6	2.96	20.144		
800.0	799.5	787.2	787.0	1.7	1.6	115.05	48.1	34.8	64.2	60.9	3.27	19.618		
900.0	899.2	886.3	886.0	1.9	1.8	123.78	47.9	40.2	72.4	68.7	3.73	19.429 SF		
1,000.0	998.9	985.4	984.9	2.1	2.0	130.63	47.6	45.6	82.0	77.8	4.18	19.602		
1,100.0	1,098.6	1,084.5	1,083.9	2.4	2.3	136.00	47.3	51.0	92.4	87.8	4.63	19.943		
1,200.0	1,198.2	1,183.6	1,182.9	2.7	2.5	140.25	47.1	56.5	103.5	98.5	5.09	20.351		
1,300.0	1,297.9	1,282.7	1,281.8	2.9	2.7	143.67	46.8	61.9	115.1	109.6	5.54	20.775		
1,400.0	1,397.6	1,381.9	1,380.8	3.2	3.0	146.46	46.6	67.3	127.0	121.0	5.99	21.189		
1,500.0	1,497.3	1,481.0	1,479.8	3.4	3.2	148.76	46.3	72.8	139.1	132.7	6.45	21.582		
1,600.0	1,597.0	1,580.1	1,578.7	3.7	3.4	150.70	46.1	78.2	151.5	144.6	6.90	21.949		
1,700.0	1,696.6	1,679.2	1,677.7	4.0	3.7	152.34	45.8	83.6	163.9	156.6	7.36	22.288		
1,800.0	1,796.3	1,778.3	1,776.7	4.2	3.9	153.75	45.6	89.0	176.5	168.7	7.81	22.602		
1,900.0	1,896.0	1,877.5	1,875.6	4.5	4.2	154.98	45.3	94.5	189.2	180.9	8.27	22.890		
2,000.0	1,995.7	1,976.6	1,974.6	4.8	4.4	156.04	45.1	99.9	201.9	193.2	8.72	23.157		
2,100.0	2,095.3	2,075.7	2,073.6	5.0	4.6	156.99	44.8	105.3	214.8	205.6	9.18	23.402		
2,200.0	2,195.0	2,174.8	2,172.5	5.3	4.9	157.82	44.6	110.7	227.6	218.0	9.63	23.629		
2,300.0	2,294.7	2,273.9	2,271.5	5.6	5.1	158.57	44.3	116.2	240.5	230.4	10.09	23.840		
2,400.0	2,394.4	2,373.0	2,370.5	5.8	5.4	159.24	44.0	121.6	253.5	242.9	10.55	24.035		
2,500.0	2,494.1	2,472.2	2,469.4	6.1	5.6	159.84	43.8	127.0	266.4	255.4	11.00	24.217		
2,600.0	2,593.7	2,571.3	2,568.4	6.4	5.9	160.39	43.5	132.5	279.4	268.0	11.46	24.387		
2,700.0	2,693.4	2,670.4	2,667.4	6.6	6.1	160.89	43.3	137.9	292.5	280.6	11.92	24.545		
2,800.0	2,793.1	2,769.5	2,766.4	6.9	6.3	161.35	43.0	143.3	305.5	293.1	12.37	24.694		
2,900.0	2,892.8	2,868.6	2,865.3	7.2	6.6	161.77	42.8	148.7	318.6	305.7	12.83	24.833		
3,000.0	2,992.4	2,967.7	2,964.3	7.4	6.8	162.16	42.5	154.2	331.6	318.4	13.28	24.965		
3,100.0	3,092.1	3,066.9	3,063.3	7.7	7.1	162.51	42.3	159.6	344.7	331.0	13.74	25.088		
3,200.0	3,191.8	3,166.0	3,162.2	8.0	7.3	162.84	42.0	165.0	357.8	343.6	14.20	25.205		
3,300.0	3,291.5	3,265.1	3,261.2	8.2	7.5	163.15	41.8	170.4	370.9	356.3	14.65	25.316		
3,400.0	3,391.2	3,364.2	3,360.2	8.5	7.8	163.44	41.5	175.9	384.1	369.0	15.11	25.421		
3,500.0	3,490.8	3,463.3	3,459.1	8.8	8.0	163.71	41.3	181.3	397.2	381.6	15.56	25.521		
3,600.0	3,590.5	3,562.5	3,558.1	9.0	8.3	163.96	41.0	186.7	410.3	394.3	16.02	25.615		
3,700.0	3,690.2	3,661.6	3,657.1	9.3	8.5	164.19	40.7	192.2	423.5	407.0	16.47	25.706		
3,800.0	3,789.9	3,760.7	3,756.0	9.6	8.8	164.41	40.5	197.6	436.6	419.7	16.93	25.792		
3,900.0	3,889.5	3,859.8	3,855.0	9.8	9.0	164.62	40.2	203.0	449.8	432.4	17.38	25.874		
4,000.0	3,989.2	3,958.9	3,954.0	10.1	9.3	164.82	40.0	208.4	463.0	445.1	17.84	25.953		
4,100.0	4,088.9	4,058.0	4,052.9	10.4	9.5	165.00	39.7	213.9	476.1	457.8	18.29	26.029		
4,200.0	4,188.6	4,157.2	4,151.9	10.7	9.7	165.18	39.5	219.3	489.3	470.6	18.75	26.101		
4,300.0	4,288.3	4,256.3	4,250.9	10.9	10.0	165.35	39.2	224.7	502.5	483.3	19.20	26.171		
4,400.0	4,387.9	4,355.4	4,349.9	11.2	10.2	165.50	39.0	230.1	515.7	496.0	19.65	26.238		
4,500.0	4,487.6	4,454.5	4,448.8	11.5	10.5	165.65	38.7	235.6	528.9	508.7	20.11	26.303		
4,600.0	4,587.3	4,553.6	4,547.8	11.7	10.7	165.80	38.5	241.0	542.0	521.5	20.56	26.365		
4,700.0	4,687.0	4,652.7	4,646.8	12.0	11.0	165.93	38.2	246.4	555.2	534.2	21.01	26.425		
4,800.0	4,786.6	4,751.9	4,745.7	12.3	11.2	166.06	38.0	251.9	568.4	547.0	21.46	26.483		
4,900.0	4,886.3	4,851.0	4,844.7	12.5	11.4	166.18	37.7	257.3	581.6	559.7	21.92	26.539		
5,000.0	4,986.0	4,950.1	4,943.7	12.8	11.7	166.30	37.5	262.7	594.8	572.5	22.37	26.593		

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

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT SWD E1-797
Project:	Garfield County, CO	TVD Reference:	30' KB @ 8359.0usft (H&P 330)
Reference Site:	S1-T7S-R97W (Mesa E1 797)	MD Reference:	30' KB @ 8359.0usft (H&P 330)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT SWD E1-797	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	VH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #3	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-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)	Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor		
5,100.0	5,085.7	5,049.2	5,042.6	13.1	11.9	166.42	37.2	268.1	608.0	585.2	22.82	26.646		
5,200.0	5,185.4	5,148.3	5,141.6	13.3	12.2	166.52	36.9	273.6	621.2	598.0	23.27	26.697		
5,300.0	5,285.0	5,247.5	5,240.6	13.6	12.4	166.63	36.7	279.0	634.4	610.7	23.72	26.746		
5,400.0	5,384.7	5,346.6	5,339.5	13.9	12.7	166.73	36.4	284.4	647.7	623.5	24.17	26.794		
5,500.0	5,484.4	5,445.7	5,438.5	14.1	12.9	166.82	36.2	289.8	660.9	636.2	24.62	26.841		
5,602.2	5,586.3	5,547.0	5,539.7	14.4	13.2	166.92	35.9	295.4	674.4	649.3	25.08	26.887		
5,700.0	5,683.9	5,644.1	5,636.6	14.6	13.4	167.02	35.7	300.7	685.7	660.1	25.53	26.855		
5,800.0	5,783.8	5,743.8	5,736.2	14.8	13.6	167.05	35.4	306.2	693.9	668.0	25.94	26.751		
5,832.2	5,816.0	5,775.9	5,768.2	14.9	13.7	100.67	35.3	307.9	695.8	669.8	26.07	26.695		
5,900.0	5,883.8	5,843.6	5,835.8	15.0	13.9	100.63	35.2	311.6	699.5	673.2	26.35	26.548		
6,000.0	5,983.8	5,943.5	5,935.5	15.2	14.1	100.57	34.9	317.1	704.9	678.2	26.78	26.326		
6,100.0	6,083.8	6,043.3	6,035.2	15.3	14.4	100.51	34.7	322.6	710.4	683.2	27.21	26.110		
6,200.0	6,183.8	6,143.2	6,134.9	15.5	14.6	100.45	34.4	328.0	715.8	688.2	27.64	25.900		
6,300.0	6,283.8	6,243.0	6,234.6	15.7	14.9	100.39	34.1	333.5	721.2	693.2	28.07	25.696		
6,400.0	6,383.8	6,342.9	6,334.3	15.9	15.1	100.33	33.9	339.0	726.7	698.2	28.50	25.499		
6,500.0	6,483.8	6,442.7	6,434.0	16.1	15.4	100.27	33.6	344.4	732.1	703.2	28.93	25.306		
6,600.0	6,583.8	6,542.6	6,533.7	16.3	15.6	100.22	33.4	349.9	737.5	708.2	29.36	25.119		
6,700.0	6,683.8	6,642.4	6,633.4	16.5	15.9	100.16	33.1	355.4	743.0	713.2	29.79	24.938		
6,800.0	6,783.8	6,742.3	6,733.1	16.7	16.1	100.11	32.9	360.8	748.4	718.2	30.22	24.761		
6,900.0	6,883.8	6,842.1	6,832.8	16.9	16.3	100.05	32.6	366.3	753.8	723.2	30.66	24.589		
7,000.0	6,983.8	6,983.2	6,973.8	17.1	16.6	100.02	32.4	370.1	756.5	725.3	31.14	24.293		
7,045.2	7,029.0	7,028.4	7,019.0	17.1	16.7	100.02	32.4	370.1	756.5	725.2	31.28	24.187		

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT SWD E1-797
Project:	Garfield County, CO	TVD Reference:	30' KB @ 8359.0usft (H&P 330)
Reference Site:	S1-T7S-R97W (Mesa E1 797)	MD Reference:	30' KB @ 8359.0usft (H&P 330)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT SWD E1-797	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	VH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #3	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-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	29.63	34.2	19.5	40.6					
100.0	100.0	90.0	90.0	0.1	0.1	29.63	34.2	19.5	39.4	39.2	0.16	246.882		
200.0	200.0	190.0	190.0	0.3	0.3	29.63	34.2	19.5	39.4	38.8	0.60	66.146		
300.0	300.0	290.0	290.0	0.5	0.5	29.63	34.2	19.5	39.4	38.4	1.05	37.696		
400.0	400.0	390.0	390.0	0.8	0.7	29.63	34.2	19.5	39.4	37.9	1.49	26.359		
500.0	500.0	490.0	490.0	1.0	1.0	29.63	34.2	19.5	39.4	37.5	1.94	20.264	CC, ES	
600.0	600.0	589.6	589.6	1.2	1.2	101.46	33.4	21.4	40.0	37.6	2.37	16.862		
700.0	699.8	688.1	687.8	1.4	1.4	117.16	30.6	28.0	44.3	41.5	2.82	15.717	SF	
730.0	729.7	717.2	716.7	1.5	1.5	122.81	29.4	30.8	47.1	44.1	2.97	15.857		
800.0	799.5	785.8	784.9	1.7	1.6	134.53	26.3	38.2	55.9	52.5	3.31	16.888		
900.0	899.2	883.9	882.2	1.9	1.9	145.70	21.9	48.7	71.2	67.4	3.78	18.851		
1,000.0	998.9	981.9	979.6	2.1	2.1	152.79	17.4	59.3	88.2	84.0	4.23	20.841		
1,100.0	1,098.6	1,080.0	1,077.0	2.4	2.4	157.56	12.9	69.8	106.1	101.4	4.69	22.644		
1,200.0	1,198.2	1,178.0	1,174.4	2.7	2.7	160.93	8.5	80.3	124.5	119.4	5.14	24.224		
1,300.0	1,297.9	1,276.1	1,271.8	2.9	3.0	163.44	4.0	90.9	143.3	137.7	5.60	25.594		
1,400.0	1,397.6	1,374.2	1,369.2	3.2	3.3	165.36	-0.4	101.4	162.2	156.1	6.06	26.782		
1,500.0	1,497.3	1,472.2	1,466.6	3.4	3.6	166.88	-4.9	112.0	181.3	174.8	6.52	27.819		
1,600.0	1,597.0	1,570.3	1,564.0	3.7	3.9	168.11	-9.4	122.5	200.5	193.5	6.98	28.728		
1,700.0	1,696.6	1,668.3	1,661.4	4.0	4.2	169.13	-13.8	133.0	219.7	212.3	7.44	29.529		
1,800.0	1,796.3	1,766.4	1,758.8	4.2	4.5	169.98	-18.3	143.6	239.0	231.1	7.90	30.240		
1,900.0	1,896.0	1,864.5	1,856.2	4.5	4.8	170.71	-22.8	154.1	258.4	250.0	8.37	30.875		
2,000.0	1,995.7	1,962.5	1,953.6	4.8	5.1	171.33	-27.2	164.6	277.8	268.9	8.83	31.445		
2,100.0	2,095.3	2,060.6	2,050.9	5.0	5.4	171.88	-31.7	175.2	297.2	287.9	9.30	31.960		
2,200.0	2,195.0	2,158.7	2,148.3	5.3	5.7	172.35	-36.1	185.7	316.6	306.8	9.76	32.427		
2,300.0	2,294.7	2,256.7	2,245.7	5.6	6.0	172.77	-40.6	196.3	336.1	325.8	10.23	32.853		
2,400.0	2,394.4	2,354.8	2,343.1	5.8	6.3	173.15	-45.1	206.8	355.5	344.8	10.69	33.243		
2,500.0	2,494.1	2,452.8	2,440.5	6.1	6.6	173.48	-49.5	217.3	375.0	363.8	11.16	33.602		
2,600.0	2,593.7	2,550.9	2,537.9	6.4	6.9	173.79	-54.0	227.9	394.5	382.9	11.63	33.933		
2,700.0	2,693.4	2,649.0	2,635.3	6.6	7.2	174.06	-58.4	238.4	414.0	401.9	12.09	34.239		
2,800.0	2,793.1	2,747.0	2,732.7	6.9	7.6	174.31	-62.9	248.9	433.5	421.0	12.56	34.524		
2,900.0	2,892.8	2,845.1	2,830.1	7.2	7.9	174.54	-67.4	259.5	453.0	440.0	13.02	34.789		
3,000.0	2,992.4	2,943.1	2,927.5	7.4	8.2	174.75	-71.8	270.0	472.6	459.1	13.49	35.038		
3,100.0	3,092.1	3,041.2	3,024.9	7.7	8.5	174.94	-76.3	280.6	492.1	478.1	13.95	35.270		
3,200.0	3,191.8	3,139.3	3,122.3	8.0	8.8	175.12	-80.8	291.1	511.6	497.2	14.42	35.489		
3,300.0	3,291.5	3,237.3	3,219.6	8.2	9.1	175.28	-85.2	301.6	531.2	516.3	14.88	35.695		
3,400.0	3,391.2	3,335.4	3,317.0	8.5	9.4	175.44	-89.7	312.2	550.7	535.4	15.34	35.889		
3,500.0	3,490.8	3,433.4	3,414.4	8.8	9.7	175.58	-94.1	322.7	570.3	554.4	15.81	36.073		
3,600.0	3,590.5	3,531.5	3,511.8	9.0	10.0	175.71	-98.6	333.2	589.8	573.5	16.27	36.248		
3,700.0	3,690.2	3,629.6	3,609.2	9.3	10.3	175.84	-103.1	343.8	609.4	592.6	16.73	36.413		
3,800.0	3,789.9	3,727.6	3,706.6	9.6	10.6	175.95	-107.5	354.3	628.9	611.7	17.20	36.571		
3,900.0	3,889.5	3,825.7	3,804.0	9.8	10.9	176.06	-112.0	364.9	648.5	630.8	17.66	36.721		
4,000.0	3,989.2	3,923.8	3,901.4	10.1	11.2	176.17	-116.4	375.4	668.0	649.9	18.12	36.865		
4,100.0	4,088.9	4,021.8	3,998.8	10.4	11.5	176.27	-120.9	385.9	687.6	669.0	18.58	37.002		
4,200.0	4,188.6	4,119.9	4,096.2	10.7	11.9	176.36	-125.4	396.5	707.2	688.1	19.04	37.134		
4,300.0	4,288.3	4,217.9	4,193.6	10.9	12.2	176.44	-129.8	407.0	726.7	707.2	19.50	37.260		
4,400.0	4,387.9	4,316.0	4,290.9	11.2	12.5	176.53	-134.3	417.5	746.3	726.3	19.96	37.381		
4,500.0	4,487.6	4,414.1	4,388.3	11.5	12.8	176.61	-138.7	428.1	765.9	745.4	20.42	37.498		
4,600.0	4,587.3	4,512.1	4,485.7	11.7	13.1	176.68	-143.2	438.6	785.4	764.5	20.88	37.610		
4,700.0	4,687.0	4,610.2	4,583.1	12.0	13.4	176.75	-147.7	449.1	805.0	783.7	21.34	37.719		
4,800.0	4,786.6	4,708.2	4,680.5	12.3	13.7	176.82	-152.1	459.7	824.6	802.8	21.80	37.823		
4,900.0	4,886.3	4,806.3	4,777.9	12.5	14.0	176.88	-156.6	470.2	844.1	821.9	22.26	37.924		
5,000.0	4,986.0	4,904.4	4,875.3	12.8	14.3	176.94	-161.1	480.8	863.7	841.0	22.72	38.022		

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

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT SWD E1-797
Project:	Garfield County, CO	TVD Reference:	30' KB @ 8359.0usft (H&P 330)
Reference Site:	S1-T7S-R97W (Mesa E1 797)	MD Reference:	30' KB @ 8359.0usft (H&P 330)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT SWD E1-797	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	VH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #3	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-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	5,085.7	5,002.4	4,972.7	13.1	14.6	177.00	-165.5	491.3	883.3	860.1	23.17	38.117		
5,200.0	5,185.4	5,100.5	5,070.1	13.3	14.9	177.06	-170.0	501.8	902.9	879.2	23.63	38.208		
5,300.0	5,285.0	5,198.6	5,167.5	13.6	15.3	177.11	-174.4	512.4	922.5	898.4	24.09	38.297		
5,400.0	5,384.7	5,296.6	5,264.9	13.9	15.6	177.16	-178.9	522.9	942.0	917.5	24.54	38.384		
5,500.0	5,484.4	5,394.7	5,362.3	14.1	15.9	177.21	-183.4	533.4	961.6	936.6	25.00	38.468		
5,602.2	5,586.3	5,494.9	5,461.8	14.4	16.2	177.26	-187.9	544.2	981.6	956.2	25.46	38.552		
5,700.0	5,683.9	5,591.1	5,557.3	14.6	16.5	177.32	-192.3	554.6	999.1	973.2	25.95	38.507		

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT SWD E1-797
Project:	Garfield County, CO	TVD Reference:	30' KB @ 8359.0usft (H&P 330)
Reference Site:	S1-T7S-R97W (Mesa E1 797)	MD Reference:	30' KB @ 8359.0usft (H&P 330)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT SWD E1-797	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	VH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #3	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-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	28.20	14.2	7.6	19.0					
100.0	100.0	90.0	90.0	0.1	0.1	28.20	14.2	7.6	16.1	16.0	0.16	101.067		
200.0	200.0	190.0	190.0	0.3	0.3	28.20	14.2	7.6	16.1	15.5	0.60	27.078		
300.0	300.0	290.0	290.0	0.5	0.5	28.20	14.2	7.6	16.1	15.1	1.05	15.432		
400.0	400.0	390.0	390.0	0.8	0.7	28.20	14.2	7.6	16.1	14.6	1.49	10.791		
500.0	500.0	490.0	490.0	1.0	1.0	28.20	14.2	7.6	16.1	14.2	1.94	8.296		
571.9	571.9	562.0	562.0	1.1	1.1	101.26	13.5	8.3	16.0	13.8	2.25	7.125 CC		
600.0	600.0	590.0	590.0	1.2	1.2	108.11	12.7	9.1	16.1	13.8	2.37	6.806 ES, SF		
700.0	699.8	689.0	688.7	1.4	1.4	142.90	7.7	14.3	21.3	18.5	2.83	7.515		
730.0	729.7	718.3	717.8	1.5	1.4	152.00	5.5	16.5	25.1	22.1	2.99	8.394		
800.0	799.5	786.0	784.9	1.7	1.6	166.56	-0.7	22.9	37.4	34.1	3.33	11.233		
900.0	899.2	881.4	878.9	1.9	1.9	177.36	-12.2	34.6	60.4	56.6	3.81	15.869		
1,000.0	998.9	977.9	973.7	2.1	2.2	-177.48	-24.7	47.5	85.7	81.4	4.27	20.079		
1,100.0	1,098.6	1,074.5	1,068.6	2.4	2.6	-174.67	-37.3	60.3	111.3	106.6	4.73	23.544		
1,200.0	1,198.2	1,171.0	1,163.5	2.7	2.9	-172.91	-49.8	73.1	137.1	131.9	5.20	26.391		
1,300.0	1,297.9	1,267.6	1,258.4	2.9	3.3	-171.71	-62.4	85.9	163.0	157.3	5.67	28.757		
1,400.0	1,397.6	1,364.1	1,353.2	3.2	3.7	-170.84	-74.9	98.7	188.9	182.7	6.15	30.733		
1,500.0	1,497.3	1,460.7	1,448.1	3.4	4.1	-170.18	-87.4	111.6	214.8	208.2	6.62	32.426		
1,600.0	1,597.0	1,557.2	1,543.0	3.7	4.5	-169.66	-100.0	124.4	240.8	233.7	7.11	33.877		
1,700.0	1,696.6	1,653.8	1,637.8	4.0	4.9	-169.24	-112.5	137.2	266.7	259.1	7.59	35.137		
1,800.0	1,796.3	1,750.3	1,732.7	4.2	5.3	-168.90	-125.0	150.0	292.7	284.6	8.08	36.240		
1,900.0	1,896.0	1,846.9	1,827.6	4.5	5.7	-168.61	-137.6	162.8	318.7	310.1	8.56	37.214		
2,000.0	1,995.7	1,943.4	1,922.5	4.8	6.1	-168.37	-150.1	175.6	344.7	335.7	9.05	38.080		
2,100.0	2,095.3	2,040.0	2,017.3	5.0	6.5	-168.16	-162.6	188.5	370.7	361.2	9.54	38.856		
2,200.0	2,195.0	2,136.5	2,112.2	5.3	6.9	-167.98	-175.2	201.3	396.7	386.7	10.03	39.554		
2,300.0	2,294.7	2,233.1	2,207.1	5.6	7.3	-167.82	-187.7	214.1	422.7	412.2	10.52	40.187		
2,400.0	2,394.4	2,329.6	2,302.0	5.8	7.7	-167.67	-200.2	226.9	448.7	437.7	11.01	40.763		
2,500.0	2,494.1	2,426.2	2,396.8	6.1	8.1	-167.55	-212.8	239.7	474.8	463.3	11.50	41.291		
2,600.0	2,593.7	2,522.7	2,491.7	6.4	8.5	-167.44	-225.3	252.6	500.8	488.8	11.99	41.775		
2,700.0	2,693.4	2,619.3	2,586.6	6.6	8.9	-167.33	-237.8	265.4	526.8	514.3	12.48	42.222		
2,800.0	2,793.1	2,715.9	2,681.4	6.9	9.3	-167.24	-250.4	278.2	552.8	539.9	12.97	42.636		
2,900.0	2,892.8	2,812.4	2,776.3	7.2	9.7	-167.16	-262.9	291.0	578.8	565.4	13.46	43.020		
3,000.0	2,992.4	2,909.0	2,871.2	7.4	10.1	-167.08	-275.5	303.8	604.9	590.9	13.94	43.378		
3,100.0	3,092.1	3,005.5	2,966.1	7.7	10.5	-167.01	-288.0	316.7	630.9	616.5	14.43	43.714		
3,200.0	3,191.8	3,102.1	3,060.9	8.0	10.9	-166.95	-300.5	329.5	656.9	642.0	14.92	44.028		
3,300.0	3,291.5	3,198.6	3,155.8	8.2	11.3	-166.89	-313.1	342.3	682.9	667.5	15.41	44.323		
3,400.0	3,391.2	3,295.2	3,250.7	8.5	11.7	-166.83	-325.6	355.1	709.0	693.1	15.90	44.601		
3,500.0	3,490.8	3,391.7	3,345.6	8.8	12.1	-166.78	-338.1	367.9	735.0	718.6	16.38	44.864		
3,600.0	3,590.5	3,488.3	3,440.4	9.0	12.5	-166.73	-350.7	380.7	761.0	744.1	16.87	45.113		
3,700.0	3,690.2	3,584.8	3,535.3	9.3	12.9	-166.69	-363.2	393.6	787.0	769.7	17.36	45.350		
3,800.0	3,789.9	3,681.4	3,630.2	9.6	13.4	-166.64	-375.7	406.4	813.1	795.2	17.84	45.574		
3,900.0	3,889.5	3,777.9	3,725.0	9.8	13.8	-166.61	-388.3	419.2	839.1	820.8	18.33	45.788		
4,000.0	3,989.2	3,874.5	3,819.9	10.1	14.2	-166.57	-400.8	432.0	865.1	846.3	18.81	45.992		
4,100.0	4,088.9	3,971.0	3,914.8	10.4	14.6	-166.53	-413.3	444.8	891.2	871.9	19.29	46.187		
4,200.0	4,188.6	4,067.6	4,009.7	10.7	15.0	-166.50	-425.9	457.7	917.2	897.4	19.78	46.374		
4,300.0	4,288.3	4,164.1	4,104.5	10.9	15.4	-166.47	-438.4	470.5	943.2	923.0	20.26	46.553		
4,400.0	4,387.9	4,260.7	4,199.4	11.2	15.8	-166.44	-451.0	483.3	969.2	948.5	20.74	46.725		
4,500.0	4,487.6	4,357.2	4,294.3	11.5	16.2	-166.41	-463.5	496.1	995.3	974.1	21.23	46.890		

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT SWD E1-797
Project:	Garfield County, CO	TVD Reference:	30' KB @ 8359.0usft (H&P 330)
Reference Site:	S1-T7S-R97W (Mesa E1 797)	MD Reference:	30' KB @ 8359.0usft (H&P 330)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT SWD E1-797	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	VH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #3	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-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	29.71	6.9	4.0	12.8					
100.0	100.0	90.0	90.0	0.1	0.1	29.71	6.9	4.0	8.0	7.8	0.16	49.963		
200.0	200.0	190.0	190.0	0.3	0.3	29.71	6.9	4.0	8.0	7.4	0.60	13.386		
300.0	300.0	290.0	290.0	0.5	0.5	29.71	6.9	4.0	8.0	6.9	1.05	7.629		
400.0	400.0	390.0	390.0	0.8	0.7	29.71	6.9	4.0	8.0	6.5	1.49	5.334		
500.0	500.0	490.1	490.0	1.0	0.9	45.13	5.3	5.4	7.6	5.6	1.93	3.929		
505.6	505.6	495.6	495.6	1.0	1.0	113.58	5.1	5.6	7.6	5.6	1.95	3.884	CC, ES, SF	
600.0	600.0	589.4	589.1	1.2	1.2	160.00	-0.1	10.2	11.9	9.5	2.38	4.990		
700.0	699.8	687.1	686.0	1.4	1.4	-177.90	-9.1	18.3	27.7	24.8	2.90	9.568		
730.0	729.7	715.8	714.4	1.5	1.5	-175.07	-12.5	21.4	34.3	31.3	3.05	11.236		
800.0	799.5	782.1	779.6	1.7	1.7	-170.97	-21.4	29.4	51.9	48.5	3.38	15.345		
900.0	899.2	874.7	869.8	1.9	2.1	-167.73	-36.8	43.1	81.2	77.3	3.87	20.980		
1,000.0	998.9	969.5	961.8	2.1	2.5	-165.93	-54.0	58.6	112.7	108.3	4.35	25.907		
1,100.0	1,098.6	1,064.4	1,053.8	2.4	2.9	-164.92	-71.3	74.1	144.2	139.4	4.82	29.907		
1,200.0	1,198.2	1,159.3	1,145.7	2.7	3.4	-164.27	-88.6	89.6	175.8	170.5	5.31	33.142		
1,300.0	1,297.9	1,254.1	1,237.7	2.9	3.9	-163.82	-105.8	105.1	207.4	201.6	5.80	35.780		
1,400.0	1,397.6	1,349.0	1,329.7	3.2	4.4	-163.49	-123.1	120.6	239.0	232.7	6.29	37.998		
1,500.0	1,497.3	1,443.9	1,421.7	3.4	4.8	-163.24	-140.4	136.1	270.6	263.9	6.79	39.867		
1,600.0	1,597.0	1,538.7	1,513.7	3.7	5.3	-163.04	-157.6	151.6	302.3	295.0	7.29	41.464		
1,700.0	1,696.6	1,633.6	1,605.7	4.0	5.8	-162.87	-174.9	167.1	333.9	326.1	7.79	42.844		
1,800.0	1,796.3	1,728.5	1,697.7	4.2	6.3	-162.74	-192.2	182.6	365.5	357.2	8.30	44.048		
1,900.0	1,896.0	1,823.3	1,789.7	4.5	6.8	-162.63	-209.4	198.1	397.1	388.3	8.80	45.108		
2,000.0	1,995.7	1,918.2	1,881.6	4.8	7.3	-162.53	-226.7	213.6	428.7	419.4	9.31	46.048		
2,100.0	2,095.3	2,013.1	1,973.6	5.0	7.8	-162.45	-244.0	229.1	460.4	450.5	9.82	46.888		
2,200.0	2,195.0	2,107.9	2,065.6	5.3	8.3	-162.37	-261.3	244.5	492.0	481.7	10.33	47.644		
2,300.0	2,294.7	2,202.8	2,157.6	5.6	8.8	-162.31	-278.5	260.0	523.6	512.8	10.83	48.328		
2,400.0	2,394.4	2,297.7	2,249.6	5.8	9.2	-162.25	-295.8	275.5	555.2	543.9	11.34	48.950		
2,500.0	2,494.1	2,392.5	2,341.6	6.1	9.7	-162.20	-313.1	291.0	586.9	575.0	11.85	49.518		
2,600.0	2,593.7	2,487.4	2,433.6	6.4	10.2	-162.16	-330.3	306.5	618.5	606.1	12.36	50.041		
2,700.0	2,693.4	2,582.3	2,525.5	6.6	10.7	-162.12	-347.6	322.0	650.1	637.2	12.87	50.522		
2,800.0	2,793.1	2,677.1	2,617.5	6.9	11.2	-162.08	-364.9	337.5	681.7	668.4	13.38	50.968		
2,900.0	2,892.8	2,772.0	2,709.5	7.2	11.7	-162.05	-382.1	353.0	713.4	699.5	13.88	51.383		
3,000.0	2,992.4	2,866.9	2,801.5	7.4	12.2	-162.02	-399.4	368.5	745.0	730.6	14.39	51.769		
3,100.0	3,092.1	2,961.7	2,893.5	7.7	12.7	-161.99	-416.7	384.0	776.6	761.7	14.90	52.130		
3,200.0	3,191.8	3,056.6	2,985.5	8.0	13.2	-161.96	-433.9	399.5	808.2	792.8	15.40	52.470		
3,300.0	3,291.5	3,151.5	3,077.5	8.2	13.7	-161.94	-451.2	415.0	839.9	824.0	15.91	52.789		
3,400.0	3,391.2	3,246.3	3,169.4	8.5	14.2	-161.91	-468.5	430.5	871.5	855.1	16.42	53.089		
3,500.0	3,490.8	3,341.2	3,261.4	8.8	14.7	-161.89	-485.7	445.9	903.1	886.2	16.92	53.374		
3,600.0	3,590.5	3,436.1	3,353.4	9.0	15.2	-161.87	-503.0	461.4	934.7	917.3	17.43	53.643		
3,700.0	3,690.2	3,530.9	3,445.4	9.3	15.7	-161.86	-520.3	476.9	966.4	948.4	17.93	53.899		
3,800.0	3,789.9	3,625.8	3,537.4	9.6	16.2	-161.84	-537.6	492.4	998.0	979.6	18.43	54.143		

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT SWD E1-797
Project:	Garfield County, CO	TVD Reference:	30' KB @ 8359.0usft (H&P 330)
Reference Site:	S1-T7S-R97W (Mesa E1 797)	MD Reference:	30' KB @ 8359.0usft (H&P 330)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT SWD E1-797	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	VH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #3	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		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)							
0.0	0.0	0.0	0.0	0.0	0.0	-21.76	12.0	-4.8	16.4						
100.0	100.0	90.0	90.0	0.1	0.1	-21.76	12.0	-4.8	12.9	12.8	0.16	81.126			
200.0	200.0	190.0	190.0	0.3	0.3	-21.76	12.0	-4.8	12.9	12.4	0.60	21.736			
300.0	300.0	290.0	290.0	0.5	0.5	-21.76	12.0	-4.8	12.9	11.9	1.05	12.387			
400.0	400.0	390.4	390.4	0.8	0.7	-28.91	10.0	-5.5	11.4	10.0	1.48	7.750			
500.0	500.0	490.3	490.0	1.0	0.9	-68.79	3.1	-8.0	8.6	6.7	1.91	4.503			
502.6	502.6	492.9	492.6	1.0	0.9	-4.14	2.9	-8.1	8.6	6.7	1.92	4.497 CC, ES, SF			
600.0	600.0	589.5	588.5	1.2	1.2	-66.15	-8.4	-11.5	13.5	11.2	2.38	5.687			
700.0	699.8	687.4	685.1	1.4	1.5	-100.69	-23.8	-12.2	27.6	24.7	2.85	9.679			
730.0	729.7	716.3	713.5	1.5	1.6	-107.00	-29.0	-11.7	33.5	30.5	3.01	11.140			
800.0	799.5	782.9	778.7	1.7	1.8	-117.20	-42.4	-9.7	49.7	46.3	3.37	14.758			
900.0	899.2	878.3	871.7	1.9	2.2	-124.88	-63.7	-5.2	76.5	72.7	3.88	19.703			
1,000.0	998.9	974.3	965.1	2.1	2.7	-128.63	-85.1	-0.5	104.1	99.8	4.40	23.694			
1,100.0	1,098.6	1,070.2	1,058.5	2.4	3.1	-130.81	-106.6	4.3	132.0	127.1	4.90	26.929			
1,200.0	1,198.2	1,166.2	1,151.9	2.7	3.5	-132.22	-128.0	9.0	159.9	154.5	5.42	29.530			
1,300.0	1,297.9	1,262.2	1,245.3	2.9	4.0	-133.22	-149.5	13.7	188.0	182.0	5.94	31.660			
1,400.0	1,397.6	1,358.1	1,338.7	3.2	4.4	-133.96	-171.0	18.4	216.0	209.6	6.46	33.438			
1,500.0	1,497.3	1,454.1	1,432.1	3.4	4.9	-134.52	-192.4	23.1	244.1	237.1	6.99	34.937			
1,600.0	1,597.0	1,550.0	1,525.5	3.7	5.4	-134.98	-213.9	27.8	272.2	264.7	7.52	36.219			
1,700.0	1,696.6	1,646.0	1,618.9	4.0	5.8	-135.34	-235.3	32.5	300.3	292.3	8.05	37.327			
1,800.0	1,796.3	1,741.9	1,712.3	4.2	6.3	-135.65	-256.8	37.2	328.4	319.9	8.58	38.293			
1,900.0	1,896.0	1,837.9	1,805.7	4.5	6.8	-135.90	-278.2	41.9	356.6	347.5	9.11	39.144			
2,000.0	1,995.7	1,933.8	1,899.1	4.8	7.2	-136.12	-299.7	46.6	384.7	375.1	9.64	39.899			
2,100.0	2,095.3	2,029.8	1,992.5	5.0	7.7	-136.31	-321.2	51.3	412.8	402.7	10.18	40.574			
2,200.0	2,195.0	2,125.7	2,085.9	5.3	8.2	-136.47	-342.6	56.0	441.0	430.3	10.71	41.180			
2,300.0	2,294.7	2,221.7	2,179.3	5.6	8.6	-136.62	-364.1	60.7	469.1	457.9	11.24	41.730			
2,400.0	2,394.4	2,317.6	2,272.7	5.8	9.1	-136.75	-385.5	65.4	497.3	485.5	11.78	42.229			
2,500.0	2,494.1	2,413.6	2,366.1	6.1	9.6	-136.86	-407.0	70.2	525.4	513.1	12.31	42.686			
2,600.0	2,593.7	2,509.5	2,459.5	6.4	10.0	-136.96	-428.5	74.9	553.6	540.7	12.84	43.106			
2,700.0	2,693.4	2,605.5	2,552.9	6.6	10.5	-137.06	-449.9	79.6	581.7	568.4	13.38	43.493			
2,800.0	2,793.1	2,701.4	2,646.3	6.9	11.0	-137.14	-471.4	84.3	609.9	596.0	13.91	43.851			
2,900.0	2,892.8	2,797.4	2,739.7	7.2	11.4	-137.22	-492.8	89.0	638.1	623.6	14.44	44.184			
3,000.0	2,992.4	2,893.3	2,833.1	7.4	11.9	-137.29	-514.3	93.7	666.2	651.2	14.97	44.494			
3,100.0	3,092.1	2,989.3	2,926.5	7.7	12.4	-137.35	-535.8	98.4	694.4	678.9	15.50	44.784			
3,200.0	3,191.8	3,085.2	3,019.9	8.0	12.9	-137.41	-557.2	103.1	722.5	706.5	16.04	45.056			
3,300.0	3,291.5	3,181.2	3,113.3	8.2	13.3	-137.47	-578.7	107.8	750.7	734.1	16.57	45.312			
3,400.0	3,391.2	3,277.1	3,206.7	8.5	13.8	-137.52	-600.1	112.5	778.9	761.8	17.10	45.554			
3,500.0	3,490.8	3,373.1	3,300.1	8.8	14.3	-137.57	-621.6	117.2	807.0	789.4	17.63	45.782			
3,600.0	3,590.5	3,469.0	3,393.5	9.0	14.7	-137.61	-643.0	121.9	835.2	817.0	18.16	45.998			
3,700.0	3,690.2	3,565.0	3,486.9	9.3	15.2	-137.65	-664.5	126.6	863.3	844.6	18.69	46.203			
3,800.0	3,789.9	3,660.9	3,580.3	9.6	15.7	-137.69	-686.0	131.3	891.5	872.3	19.21	46.398			
3,900.0	3,889.5	3,756.9	3,673.7	9.8	16.1	-137.73	-707.4	136.1	919.7	899.9	19.74	46.584			
4,000.0	3,989.2	3,852.8	3,767.1	10.1	16.6	-137.76	-728.9	140.8	947.8	927.6	20.27	46.762			
4,100.0	4,088.9	3,948.8	3,860.5	10.4	17.1	-137.79	-750.3	145.5	976.0	955.2	20.80	46.932			

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT SWD E1-797
Project:	Garfield County, CO	TVD Reference:	30' KB @ 8359.0usft (H&P 330)
Reference Site:	S1-T7S-R97W (Mesa E1 797)	MD Reference:	30' KB @ 8359.0usft (H&P 330)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT SWD E1-797	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	VH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #3	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				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.0	0.0	0.0	0.0	0.0	0.0	21.39	67.8	26.5	73.4					
100.0	100.0	90.0	90.0	0.1	0.1	21.39	67.8	26.5	72.8	72.6	0.16	455.951		
200.0	200.0	190.0	190.0	0.3	0.3	21.39	67.8	26.5	72.8	72.2	0.60	122.160 CC, ES		
300.0	300.0	287.1	287.1	0.5	0.5	22.20	68.9	28.1	74.5	73.5	1.04	71.639		
400.0	400.0	383.5	383.2	0.8	0.7	24.71	73.0	33.6	80.7	79.2	1.50	53.761		
500.0	500.0	478.9	477.9	1.0	1.0	28.19	79.9	42.8	91.5	89.5	1.98	46.209		
600.0	600.0	572.8	570.4	1.2	1.3	98.80	89.4	55.6	107.4	104.9	2.50	42.974 SF		
700.0	699.8	664.3	659.7	1.4	1.7	103.75	101.3	71.5	129.2	126.2	3.00	43.003		
730.0	729.7	691.2	685.8	1.5	1.8	105.20	105.3	76.9	137.0	133.8	3.16	43.410		
800.0	799.5	752.9	745.3	1.7	2.1	108.55	115.3	90.2	157.2	153.6	3.52	44.706		
900.0	899.2	838.9	827.0	1.9	2.6	112.18	131.1	111.4	190.4	186.3	4.03	47.280		
1,000.0	998.9	922.0	904.9	2.1	3.2	114.78	148.4	134.6	228.2	223.7	4.55	50.143		
1,100.0	1,098.6	1,013.2	989.7	2.4	3.8	116.88	168.5	161.5	268.4	263.3	5.06	53.018		
1,200.0	1,198.2	1,104.4	1,074.5	2.7	4.4	118.43	188.6	188.5	308.7	303.2	5.58	55.368		
1,300.0	1,297.9	1,195.6	1,159.3	2.9	5.1	119.62	208.7	215.4	349.3	343.2	6.10	57.280		
1,400.0	1,397.6	1,286.8	1,244.1	3.2	5.8	120.56	228.8	242.3	389.9	383.3	6.62	58.852		
1,500.0	1,497.3	1,378.1	1,328.9	3.4	6.4	121.33	248.9	269.2	430.6	423.4	7.16	60.162		
1,600.0	1,597.0	1,469.3	1,413.7	3.7	7.1	121.97	269.0	296.2	471.3	463.6	7.69	61.267		
1,700.0	1,696.6	1,560.5	1,498.5	4.0	7.8	122.50	289.0	323.1	512.1	503.9	8.23	62.210		
1,800.0	1,796.3	1,651.7	1,583.3	4.2	8.4	122.96	309.1	350.0	552.9	544.1	8.77	63.023		
1,900.0	1,896.0	1,742.9	1,668.1	4.5	9.1	123.35	329.2	376.9	593.7	584.4	9.32	63.730		
2,000.0	1,995.7	1,834.1	1,752.9	4.8	9.8	123.69	349.3	403.9	634.6	624.7	9.86	64.351		
2,100.0	2,095.3	1,925.3	1,837.7	5.0	10.4	123.99	369.4	430.8	675.5	665.1	10.41	64.901		
2,200.0	2,195.0	2,016.5	1,922.5	5.3	11.1	124.26	389.5	457.7	716.4	705.4	10.95	65.392		
2,300.0	2,294.7	2,107.7	2,007.3	5.6	11.8	124.50	409.6	484.6	757.3	745.8	11.50	65.833		
2,400.0	2,394.4	2,198.9	2,092.1	5.8	12.5	124.71	429.7	511.5	798.2	786.1	12.05	66.233		
2,500.0	2,494.1	2,290.2	2,176.9	6.1	13.1	124.90	449.8	538.5	839.1	826.5	12.60	66.596		
2,600.0	2,593.7	2,381.4	2,261.7	6.4	13.8	125.08	469.9	565.4	880.0	866.9	13.15	66.929		
2,700.0	2,693.4	2,472.6	2,346.5	6.6	14.5	125.24	490.0	592.3	921.0	907.3	13.70	67.236		
2,800.0	2,793.1	2,563.8	2,431.3	6.9	15.1	125.38	510.0	619.2	961.9	947.6	14.25	67.520		

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT SWD E1-797
Project:	Garfield County, CO	TVD Reference:	30' KB @ 8359.0usft (H&P 330)
Reference Site:	S1-T7S-R97W (Mesa E1 797)	MD Reference:	30' KB @ 8359.0usft (H&P 330)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT SWD E1-797	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	VH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #3	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				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.0	0.0	0.0	0.0	0.0	0.0	20.37	60.8	22.6	65.7					
100.0	100.0	90.0	90.0	0.1	0.1	20.37	60.8	22.6	64.9	64.7	0.16	406.605		
200.0	200.0	190.0	190.0	0.3	0.3	20.37	60.8	22.6	64.9	64.3	0.60	108.940		
244.5	244.5	234.5	234.5	0.4	0.4	20.37	60.8	22.6	64.9	64.1	0.80	81.552	CC, ES	
300.0	300.0	288.9	288.9	0.5	0.5	20.58	61.0	22.9	65.2	64.2	1.04	62.601		
400.0	400.0	386.1	386.0	0.8	0.7	22.84	63.4	26.7	68.9	67.4	1.49	46.228		
500.0	500.0	482.6	482.0	1.0	1.0	26.87	68.3	34.6	77.0	75.0	1.96	39.335		
600.0	600.0	577.7	576.1	1.2	1.3	98.70	75.6	46.4	90.1	87.6	2.47	36.511	SF	
700.0	699.8	670.5	667.2	1.4	1.6	105.12	85.2	61.8	109.3	106.3	2.97	36.801		
730.0	729.7	700.0	695.8	1.5	1.7	107.15	88.7	67.4	116.4	113.3	3.13	37.231		
800.0	799.5	760.6	754.6	1.7	2.0	111.13	96.6	80.2	135.1	131.6	3.48	38.807		
900.0	899.2	848.1	838.3	1.9	2.5	115.53	109.8	101.5	166.5	162.5	3.99	41.718		
1,000.0	998.9	932.6	918.1	2.1	3.0	118.62	124.5	125.1	202.7	198.2	4.50	45.041		
1,100.0	1,098.6	1,021.7	1,001.3	2.4	3.6	120.96	141.4	152.3	242.4	237.4	5.02	48.294		
1,200.0	1,198.2	1,113.0	1,086.5	2.7	4.2	122.70	158.8	180.2	282.4	276.9	5.52	51.125		
1,300.0	1,297.9	1,204.4	1,171.7	2.9	4.8	124.01	176.1	208.2	322.6	316.6	6.04	53.447		
1,400.0	1,397.6	1,295.7	1,256.9	3.2	5.5	125.03	193.5	236.1	362.9	356.3	6.55	55.367		
1,500.0	1,497.3	1,387.1	1,342.2	3.4	6.1	125.84	210.9	264.1	403.3	396.2	7.08	56.973		
1,600.0	1,597.0	1,478.4	1,427.4	3.7	6.8	126.51	228.2	292.0	443.7	436.1	7.61	58.336		
1,700.0	1,696.6	1,569.8	1,512.6	4.0	7.5	127.07	245.6	320.0	484.2	476.0	8.14	59.504		
1,800.0	1,796.3	1,661.1	1,597.8	4.2	8.1	127.54	262.9	347.9	524.7	516.0	8.67	60.514		
1,900.0	1,896.0	1,752.5	1,683.0	4.5	8.8	127.94	280.3	375.9	565.2	556.0	9.21	61.395		
2,000.0	1,995.7	1,843.8	1,768.2	4.8	9.4	128.29	297.7	403.8	605.8	596.0	9.74	62.172		
2,100.0	2,095.3	1,935.2	1,853.5	5.0	10.1	128.60	315.0	431.8	646.4	636.1	10.28	62.861		
2,200.0	2,195.0	2,026.5	1,938.7	5.3	10.7	128.87	332.4	459.7	686.9	676.1	10.82	63.477		
2,300.0	2,294.7	2,117.9	2,023.9	5.6	11.4	129.11	349.8	487.7	727.5	716.2	11.36	64.032		
2,400.0	2,394.4	2,209.2	2,109.1	5.8	12.1	129.32	367.1	515.6	768.1	756.2	11.90	64.534		
2,500.0	2,494.1	2,300.6	2,194.3	6.1	12.7	129.51	384.5	543.6	808.8	796.3	12.44	64.991		
2,600.0	2,593.7	2,391.9	2,279.5	6.4	13.4	129.69	401.9	571.5	849.4	836.4	12.99	65.410		
2,700.0	2,693.4	2,483.3	2,364.8	6.6	14.1	129.85	419.2	599.5	890.0	876.5	13.53	65.795		
2,800.0	2,793.1	2,574.6	2,450.0	6.9	14.7	129.99	436.6	627.4	930.6	916.6	14.07	66.151		
2,900.0	2,892.8	2,666.0	2,535.2	7.2	15.4	130.12	454.0	655.4	971.3	956.7	14.61	66.482		

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT SWD E1-797
Project:	Garfield County, CO	TVD Reference:	30' KB @ 8359.0usft (H&P 330)
Reference Site:	S1-T7S-R97W (Mesa E1 797)	MD Reference:	30' KB @ 8359.0usft (H&P 330)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT SWD E1-797	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	VH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #3	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							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	29.39	62.6	35.3	72.6					
100.0	100.0	90.0	90.0	0.1	0.1	29.39	62.6	35.3	71.9	71.7	0.16	450.531		
200.0	200.0	190.0	190.0	0.3	0.3	29.39	62.6	35.3	71.9	71.3	0.60	120.708		
205.8	205.8	195.8	195.8	0.3	0.3	29.39	62.6	35.3	71.9	71.3	0.62	115.635 CC, ES		
300.0	300.0	288.4	288.4	0.5	0.5	30.02	62.9	36.3	72.6	71.6	1.04	69.871		
400.0	400.0	385.6	385.4	0.8	0.7	33.19	64.0	41.9	76.7	75.2	1.49	51.362		
500.0	500.0	482.0	481.2	1.0	1.0	38.24	66.2	52.2	84.8	82.8	1.96	43.178		
600.0	600.0	576.8	574.8	1.2	1.3	111.01	69.3	66.9	98.1	95.6	2.49	39.341		
700.0	699.8	669.1	665.1	1.4	1.7	118.09	73.3	85.6	118.5	115.5	3.02	39.196 SF		
730.0	729.7	696.1	691.3	1.5	1.8	120.11	74.6	91.8	126.1	122.9	3.18	39.639		
800.0	799.5	758.2	751.3	1.7	2.1	124.55	77.9	107.6	146.1	142.5	3.55	41.189		
900.0	899.2	844.9	834.0	1.9	2.6	129.40	83.3	132.8	179.4	175.3	4.07	44.101		
1,000.0	998.9	937.4	921.8	2.1	3.1	133.10	89.3	161.4	215.4	210.8	4.57	47.164		
1,100.0	1,098.6	1,029.9	1,009.6	2.4	3.7	135.75	95.3	190.0	252.0	246.9	5.06	49.843		
1,200.0	1,198.2	1,122.4	1,097.4	2.7	4.3	137.73	101.4	218.6	288.9	283.4	5.55	52.034		
1,300.0	1,297.9	1,215.0	1,185.2	2.9	4.9	139.26	107.4	247.1	326.1	320.0	6.05	53.910		
1,400.0	1,397.6	1,307.5	1,273.0	3.2	5.5	140.48	113.5	275.7	363.4	356.9	6.55	55.489		
1,500.0	1,497.3	1,400.0	1,360.8	3.4	6.1	141.48	119.5	304.3	400.9	393.8	7.05	56.836		
1,600.0	1,597.0	1,492.5	1,448.6	3.7	6.6	142.30	125.6	332.9	438.4	430.8	7.56	57.993		
1,700.0	1,696.6	1,585.0	1,536.4	4.0	7.2	142.99	131.6	361.5	476.0	467.9	8.07	58.998		
1,800.0	1,796.3	1,677.6	1,624.2	4.2	7.8	143.59	137.6	390.0	513.6	505.1	8.58	59.877		
1,900.0	1,896.0	1,770.1	1,711.9	4.5	8.4	144.10	143.7	418.6	551.3	542.2	9.09	60.654		
2,000.0	1,995.7	1,862.6	1,799.7	4.8	9.0	144.55	149.7	447.2	589.0	579.4	9.60	61.344		
2,100.0	2,095.3	1,955.1	1,887.5	5.0	9.6	144.94	155.8	475.8	626.8	616.7	10.12	61.962		
2,200.0	2,195.0	2,047.6	1,975.3	5.3	10.2	145.29	161.8	504.3	664.6	653.9	10.63	62.518		
2,300.0	2,294.7	2,140.2	2,063.1	5.6	10.8	145.60	167.9	532.9	702.4	691.2	11.14	63.023		
2,400.0	2,394.4	2,232.7	2,150.9	5.8	11.4	145.88	173.9	561.5	740.2	728.5	11.66	63.482		
2,500.0	2,494.1	2,325.2	2,238.7	6.1	12.0	146.13	179.9	590.1	778.0	765.8	12.17	63.903		
2,600.0	2,593.7	2,417.7	2,326.5	6.4	12.6	146.36	186.0	618.6	815.8	803.1	12.69	64.291		
2,700.0	2,693.4	2,510.2	2,414.3	6.6	13.2	146.57	192.0	647.2	853.7	840.4	13.20	64.650		
2,800.0	2,793.1	2,602.8	2,502.0	6.9	13.8	146.76	198.1	675.8	891.5	877.8	13.72	64.983		
2,900.0	2,892.8	2,695.3	2,589.8	7.2	14.4	146.93	204.1	704.4	929.4	915.1	14.23	65.293		
3,000.0	2,992.4	2,787.8	2,677.6	7.4	15.0	147.09	210.1	733.0	967.2	952.5	14.75	65.583		

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT SWD E1-797
Project:	Garfield County, CO	TVD Reference:	30' KB @ 8359.0usft (H&P 330)
Reference Site:	S1-T7S-R97W (Mesa E1 797)	MD Reference:	30' KB @ 8359.0usft (H&P 330)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT SWD E1-797	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	VH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #3	Offset TVD Reference:	Offset Datum

Offset Design S1-T7S-R97W (Mesa E1 797) - PUCKETT 32C-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		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
0.0	0.0	0.0	0.0	0.0	0.0	29.35	55.7	31.3	64.7					
100.0	100.0	90.0	90.0	0.1	0.1	29.35	55.7	31.3	63.9	63.8	0.16	400.644		
200.0	200.0	190.0	190.0	0.3	0.3	29.35	55.7	31.3	63.9	63.3	0.60	107.342		
300.0	300.0	290.0	290.0	0.5	0.5	29.35	55.7	31.3	63.9	62.9	1.05	61.174 CC, ES		
400.0	400.0	388.6	388.6	0.8	0.7	30.96	55.7	33.4	64.9	63.4	1.49	43.676		
500.0	500.0	486.5	486.3	1.0	1.0	36.13	55.4	40.4	68.7	66.7	1.94	35.390		
600.0	600.0	583.3	582.2	1.2	1.2	110.99	54.9	52.3	76.8	74.4	2.43	31.627		
700.0	699.8	677.7	675.2	1.4	1.5	121.26	54.3	68.5	92.1	89.1	2.96	31.127 SF		
730.0	729.7	705.4	702.4	1.5	1.6	124.23	54.1	74.2	98.3	95.2	3.12	31.510		
800.0	799.5	769.1	764.4	1.7	1.9	130.54	53.5	88.6	115.5	112.0	3.49	33.085		
900.0	899.2	857.6	849.8	1.9	2.3	137.32	52.6	112.1	145.4	141.4	4.01	36.281		
1,000.0	998.9	947.6	935.5	2.1	2.8	142.25	51.5	139.3	180.2	175.7	4.52	39.836		
1,100.0	1,098.6	1,040.3	1,023.7	2.4	3.4	145.74	50.5	167.6	216.2	211.2	5.01	43.166		
1,200.0	1,198.2	1,132.9	1,111.9	2.7	3.9	148.23	49.4	195.9	252.7	247.2	5.49	46.003		
1,300.0	1,297.9	1,225.5	1,200.0	2.9	4.5	150.10	48.3	224.3	289.5	283.5	5.98	48.391		
1,400.0	1,397.6	1,318.1	1,288.2	3.2	5.1	151.55	47.2	252.6	326.5	320.1	6.47	50.444		
1,500.0	1,497.3	1,410.7	1,376.4	3.4	5.7	152.70	46.1	280.9	363.7	356.7	6.97	52.205		
1,600.0	1,597.0	1,503.3	1,464.5	3.7	6.2	153.65	45.0	309.2	401.0	393.5	7.46	53.728		
1,700.0	1,696.6	1,595.9	1,552.7	4.0	6.8	154.43	43.9	337.6	438.3	430.4	7.96	55.056		
1,800.0	1,796.3	1,688.5	1,640.9	4.2	7.4	155.09	42.8	365.9	475.7	467.3	8.46	56.222		
1,900.0	1,896.0	1,781.1	1,729.0	4.5	8.0	155.65	41.7	394.2	513.2	504.2	8.96	57.255		
2,000.0	1,995.7	1,873.7	1,817.2	4.8	8.6	156.13	40.6	422.5	550.7	541.2	9.47	58.175		
2,100.0	2,095.3	1,966.4	1,905.4	5.0	9.2	156.56	39.5	450.8	588.2	578.2	9.97	59.000		
2,200.0	2,195.0	2,059.0	1,993.5	5.3	9.7	156.93	38.4	479.2	625.8	615.3	10.47	59.744		
2,300.0	2,294.7	2,151.6	2,081.7	5.6	10.3	157.26	37.3	507.5	663.3	652.3	10.98	60.419		
2,400.0	2,394.4	2,244.2	2,169.9	5.8	10.9	157.56	36.2	535.8	700.9	689.4	11.48	61.035		
2,500.0	2,494.1	2,336.8	2,258.0	6.1	11.5	157.83	35.1	564.1	738.5	726.5	11.99	61.599		
2,600.0	2,593.7	2,429.4	2,346.2	6.4	12.1	158.07	34.0	592.4	776.1	763.6	12.49	62.118		
2,700.0	2,693.4	2,522.0	2,434.4	6.6	12.7	158.28	32.9	620.8	813.7	800.7	13.00	62.598		
2,800.0	2,793.1	2,614.6	2,522.5	6.9	13.3	158.48	31.8	649.1	851.4	837.9	13.50	63.043		
2,900.0	2,892.8	2,707.2	2,610.7	7.2	13.9	158.66	30.7	677.4	889.0	875.0	14.01	63.457		
3,000.0	2,992.4	2,799.8	2,698.9	7.4	14.5	158.83	29.6	705.7	926.7	912.2	14.51	63.845		
3,100.0	3,092.1	2,892.5	2,787.0	7.7	15.0	158.99	28.5	734.1	964.3	949.3	15.02	64.208		

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT SWD E1-797
Project:	Garfield County, CO	TVD Reference:	30' KB @ 8359.0usft (H&P 330)
Reference Site:	S1-T7S-R97W (Mesa E1 797)	MD Reference:	30' KB @ 8359.0usft (H&P 330)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT SWD E1-797	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	VH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #3	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				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.0	0.0	0.0	0.0	0.0	0.0	29.43	41.5	23.4	48.7					
100.0	100.0	90.0	90.0	0.1	0.1	29.43	41.5	23.4	47.7	47.5	0.16	298.781		
200.0	200.0	190.0	190.0	0.3	0.3	29.43	41.5	23.4	47.7	47.1	0.60	80.051		
300.0	300.0	290.0	290.0	0.5	0.5	29.43	41.5	23.4	47.7	46.6	1.05	45.620		
313.4	313.4	303.4	303.4	0.6	0.5	29.43	41.5	23.4	47.7	46.6	1.11	43.138 CC		
400.0	400.0	389.7	389.7	0.8	0.7	30.72	41.2	24.5	47.9	46.4	1.49	32.228 ES		
500.0	500.0	488.8	488.6	1.0	0.9	37.46	39.3	30.1	49.5	47.5	1.93	25.612		
600.0	600.0	586.9	586.1	1.2	1.2	116.39	35.7	40.4	54.8	52.4	2.41	22.780 SF		
700.0	699.8	682.6	680.5	1.4	1.5	131.43	30.7	55.0	68.1	65.2	2.95	23.125		
730.0	729.7	710.7	708.1	1.5	1.6	135.55	29.0	60.2	74.0	70.9	3.11	23.783		
800.0	799.5	775.3	771.2	1.7	1.9	143.73	24.4	73.4	90.8	87.4	3.48	26.083		
900.0	899.2	865.2	858.0	1.9	2.3	151.86	17.0	95.2	120.5	116.5	4.00	30.160		
1,000.0	998.9	951.9	940.7	2.1	2.8	157.21	8.5	119.9	155.9	151.4	4.50	34.625		
1,100.0	1,098.6	1,040.8	1,024.5	2.4	3.3	160.98	-1.1	148.0	195.2	190.2	5.01	38.981		
1,200.0	1,198.2	1,132.0	1,110.4	2.7	3.9	163.58	-11.0	177.1	235.3	229.8	5.49	42.859		
1,300.0	1,297.9	1,223.2	1,196.2	2.9	4.5	165.43	-20.9	206.1	275.7	269.7	5.98	46.079		
1,400.0	1,397.6	1,314.3	1,282.1	3.2	5.2	166.80	-30.9	235.2	316.3	309.8	6.48	48.841		
1,500.0	1,497.3	1,405.5	1,367.9	3.4	5.8	167.87	-40.8	264.2	357.0	350.0	6.97	51.198		
1,600.0	1,597.0	1,496.7	1,453.8	3.7	6.4	168.71	-50.7	293.2	397.7	390.3	7.47	53.228		
1,700.0	1,696.6	1,587.9	1,539.6	4.0	7.0	169.40	-60.7	322.3	438.6	430.6	7.97	54.992		
1,800.0	1,796.3	1,679.0	1,625.5	4.2	7.7	169.98	-70.6	351.3	479.4	470.9	8.48	56.539		
1,900.0	1,896.0	1,770.2	1,711.3	4.5	8.3	170.46	-80.5	380.3	520.3	511.3	8.99	57.905		
2,000.0	1,995.7	1,861.4	1,797.2	4.8	8.9	170.87	-90.4	409.4	561.3	551.8	9.49	59.120		
2,100.0	2,095.3	1,952.5	1,883.0	5.0	9.6	171.23	-100.4	438.4	602.2	592.2	10.00	60.208		
2,200.0	2,195.0	2,043.7	1,968.9	5.3	10.2	171.54	-110.3	467.5	643.2	632.7	10.51	61.188		
2,300.0	2,294.7	2,134.9	2,054.7	5.6	10.8	171.81	-120.2	496.5	684.1	673.1	11.02	62.076		
2,400.0	2,394.4	2,226.1	2,140.6	5.8	11.5	172.06	-130.1	525.5	725.1	713.6	11.53	62.884		
2,500.0	2,494.1	2,317.2	2,226.4	6.1	12.1	172.27	-140.1	554.6	766.1	754.1	12.04	63.623		
2,600.0	2,593.7	2,408.4	2,312.3	6.4	12.8	172.47	-150.0	583.6	807.1	794.6	12.55	64.303		
2,700.0	2,693.4	2,499.6	2,398.1	6.6	13.4	172.64	-159.9	612.6	848.2	835.1	13.06	64.930		
2,800.0	2,793.1	2,590.7	2,484.0	6.9	14.0	172.80	-169.9	641.7	889.2	875.6	13.57	65.511		
2,900.0	2,892.8	2,681.9	2,569.8	7.2	14.7	172.95	-179.8	670.7	930.2	916.1	14.08	66.051		
3,000.0	2,992.4	2,773.1	2,655.7	7.4	15.3	173.08	-189.7	699.8	971.2	956.7	14.59	66.555		

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT SWD E1-797
Project:	Garfield County, CO	TVD Reference:	30' KB @ 8359.0usft (H&P 330)
Reference Site:	S1-T7S-R97W (Mesa E1 797)	MD Reference:	30' KB @ 8359.0usft (H&P 330)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT SWD E1-797	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	VH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #3	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-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	28.65	28.4	15.5	33.9					
100.0	100.0	90.0	90.0	0.1	0.1	28.65	28.4	15.5	32.4	32.2	0.16	202.900		
200.0	200.0	190.0	190.0	0.3	0.3	28.65	28.4	15.5	32.4	31.8	0.60	54.362		
300.0	300.0	290.0	290.0	0.5	0.5	29.39	28.2	15.9	32.3	31.3	1.04	31.149		
359.8	359.8	349.8	349.8	0.7	0.6	33.27	27.0	17.7	32.3	31.0	1.30	24.791 CC		
400.0	400.0	389.9	389.8	0.8	0.7	37.73	25.6	19.8	32.4	30.9	1.48	21.873 ES		
500.0	500.0	489.1	488.4	1.0	1.0	54.19	20.2	28.0	34.6	32.6	1.95	17.724		
600.0	600.0	586.6	584.9	1.2	1.3	140.86	12.2	40.3	43.7	41.2	2.49	17.562 SF		
700.0	699.8	681.4	677.7	1.4	1.6	156.93	1.8	56.1	63.7	60.6	3.06	20.831		
730.0	729.7	709.1	704.7	1.5	1.8	160.40	-1.7	61.4	71.7	68.5	3.22	22.235		
800.0	799.5	772.7	766.2	1.7	2.1	166.63	-10.6	75.0	93.1	89.5	3.58	25.985		
900.0	899.2	860.9	850.5	1.9	2.6	172.24	-24.7	96.5	128.2	124.1	4.08	31.395		
1,000.0	998.9	945.8	930.5	2.1	3.1	175.76	-40.3	120.3	168.2	163.6	4.59	36.663		
1,100.0	1,098.6	1,030.9	1,009.5	2.4	3.7	178.20	-57.8	146.9	212.0	206.9	5.10	41.553		
1,200.0	1,198.2	1,120.2	1,092.1	2.7	4.4	179.93	-76.3	175.2	256.7	251.1	5.60	45.872		
1,300.0	1,297.9	1,209.4	1,174.6	2.9	5.1	-178.85	-94.9	203.5	301.5	295.4	6.10	49.456		
1,400.0	1,397.6	1,298.6	1,257.2	3.2	5.8	-177.95	-113.5	231.8	346.5	339.9	6.60	52.469		
1,500.0	1,497.3	1,387.8	1,339.7	3.4	6.5	-177.26	-132.0	260.1	391.4	384.3	7.11	55.016		
1,600.0	1,597.0	1,477.1	1,422.3	3.7	7.2	-176.71	-150.6	288.4	436.4	428.8	7.63	57.203		
1,700.0	1,696.6	1,566.3	1,504.8	4.0	7.9	-176.26	-169.2	316.7	481.5	473.3	8.15	59.098		
1,800.0	1,796.3	1,655.5	1,587.4	4.2	8.6	-175.88	-187.8	345.0	526.5	517.9	8.67	60.753		
1,900.0	1,896.0	1,744.8	1,670.0	4.5	9.3	-175.57	-206.3	373.3	571.6	562.4	9.19	62.212		
2,000.0	1,995.7	1,834.0	1,752.5	4.8	10.0	-175.30	-224.9	401.6	616.7	607.0	9.71	63.507		
2,100.0	2,095.3	1,923.2	1,835.1	5.0	10.7	-175.07	-243.5	429.9	661.8	651.5	10.23	64.664		
2,200.0	2,195.0	2,012.4	1,917.6	5.3	11.4	-174.87	-262.0	458.2	706.9	696.1	10.76	65.705		
2,300.0	2,294.7	2,101.7	2,000.2	5.6	12.1	-174.69	-280.6	486.5	752.0	740.7	11.28	66.647		
2,400.0	2,394.4	2,190.9	2,082.8	5.8	12.8	-174.54	-299.2	514.8	797.1	785.3	11.81	67.504		
2,500.0	2,494.1	2,280.1	2,165.3	6.1	13.5	-174.40	-317.7	543.1	842.2	829.8	12.33	68.287		
2,600.0	2,593.7	2,369.4	2,247.9	6.4	14.2	-174.27	-336.3	571.4	887.3	874.4	12.86	69.007		
2,700.0	2,693.4	2,458.6	2,330.4	6.6	14.9	-174.15	-354.9	599.7	932.4	919.0	13.38	69.671		
2,800.0	2,793.1	2,547.8	2,413.0	6.9	15.6	-174.05	-373.4	628.0	977.5	963.6	13.91	70.286		

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT SWD E1-797
Project:	Garfield County, CO	TVD Reference:	30' KB @ 8359.0usft (H&P 330)
Reference Site:	S1-T7S-R97W (Mesa E1 797)	MD Reference:	30' KB @ 8359.0usft (H&P 330)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT SWD E1-797	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	VH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #3	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-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	28.72	21.1	11.6	26.1					
100.0	100.0	90.0	90.0	0.1	0.1	28.72	21.1	11.6	24.1	23.9	0.16	150.943		
200.0	200.0	190.0	190.0	0.3	0.3	28.72	21.1	11.6	24.1	23.5	0.60	40.441		
300.0	300.0	290.0	290.0	0.5	0.5	28.72	21.1	11.6	24.1	23.0	1.05	23.047		
400.0	400.0	390.0	390.0	0.8	0.7	28.72	21.1	11.6	24.1	22.6	1.49	16.116		
500.0	500.0	490.2	490.2	1.0	1.0	33.72	19.7	13.1	23.6	21.7	1.93	12.257		
540.1	540.1	530.3	530.2	1.1	1.0	106.35	18.1	14.8	23.4	21.3	2.10	11.176 CC, ES		
600.0	600.0	589.8	589.5	1.2	1.2	121.44	14.7	18.4	24.4	22.1	2.36	10.342 SF		
700.0	699.8	687.6	686.5	1.4	1.4	150.16	6.3	27.3	34.0	31.2	2.88	11.817		
730.0	729.7	716.4	714.9	1.5	1.5	156.81	3.2	30.6	39.4	36.3	3.05	12.904		
800.0	799.5	782.7	780.2	1.7	1.7	167.92	-5.1	39.4	54.9	51.5	3.40	16.155		
900.0	899.2	875.2	870.3	1.9	2.1	176.93	-19.2	54.4	82.7	78.8	3.90	21.222		
1,000.0	998.9	964.8	956.6	2.1	2.5	-177.94	-35.7	71.9	115.8	111.4	4.39	26.345		
1,100.0	1,098.6	1,051.2	1,038.7	2.4	3.0	-174.71	-54.3	91.6	153.5	148.6	4.89	31.366		
1,200.0	1,198.2	1,134.3	1,116.4	2.7	3.6	-172.50	-74.5	113.1	195.5	190.1	5.39	36.245		
1,300.0	1,297.9	1,214.0	1,189.6	2.9	4.1	-170.92	-96.0	136.0	241.5	235.6	5.89	40.963		
1,400.0	1,397.6	1,297.7	1,265.4	3.2	4.8	-169.66	-120.3	161.8	290.3	283.9	6.41	45.297		
1,500.0	1,497.3	1,384.7	1,344.1	3.4	5.6	-168.71	-145.7	188.8	339.5	332.6	6.92	49.065		
1,600.0	1,597.0	1,471.6	1,422.8	3.7	6.3	-168.01	-171.1	215.7	388.7	381.3	7.43	52.309		
1,700.0	1,696.6	1,558.6	1,501.4	4.0	7.0	-167.46	-196.5	242.7	437.9	430.0	7.95	55.102		
1,800.0	1,796.3	1,645.6	1,580.1	4.2	7.8	-167.02	-221.9	269.7	487.2	478.7	8.47	57.531		
1,900.0	1,896.0	1,732.5	1,658.8	4.5	8.6	-166.66	-247.3	296.6	536.5	527.5	8.99	59.658		
2,000.0	1,995.7	1,819.5	1,737.5	4.8	9.3	-166.37	-272.7	323.6	585.8	576.3	9.52	61.536		
2,100.0	2,095.3	1,906.5	1,816.2	5.0	10.1	-166.11	-298.1	350.6	635.1	625.1	10.05	63.204		
2,200.0	2,195.0	1,993.4	1,894.9	5.3	10.8	-165.90	-323.5	377.5	684.4	673.8	10.58	64.695		
2,300.0	2,294.7	2,080.4	1,973.5	5.6	11.6	-165.71	-348.9	404.5	733.7	722.6	11.11	66.035		
2,400.0	2,394.4	2,167.4	2,052.2	5.8	12.4	-165.55	-374.3	431.5	783.1	771.4	11.64	67.249		
2,500.0	2,494.1	2,254.3	2,130.9	6.1	13.1	-165.41	-399.7	458.4	832.4	820.2	12.18	68.353		
2,600.0	2,593.7	2,341.3	2,209.6	6.4	13.9	-165.28	-425.1	485.4	881.7	869.0	12.71	69.362		
2,700.0	2,693.4	2,428.3	2,288.3	6.6	14.7	-165.17	-450.5	512.4	931.1	917.8	13.25	70.288		
2,800.0	2,793.1	2,515.2	2,366.9	6.9	15.4	-165.06	-475.9	539.3	980.4	966.6	13.78	71.142		

Anticollision Report

Company:	Caerus Oil & Gas (NAD 27)	Local Co-ordinate Reference:	Well PUCKETT SWD E1-797
Project:	Garfield County, CO	TVD Reference:	30' KB @ 8359.0usft (H&P 330)
Reference Site:	S1-T7S-R97W (Mesa E1 797)	MD Reference:	30' KB @ 8359.0usft (H&P 330)
Site Error:	0.0usft	North Reference:	True
Reference Well:	PUCKETT SWD E1-797	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	VH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #3	Offset TVD Reference:	Offset Datum

Reference Depths are relative to 30' KB @ 8359.0usft (H&P 330)

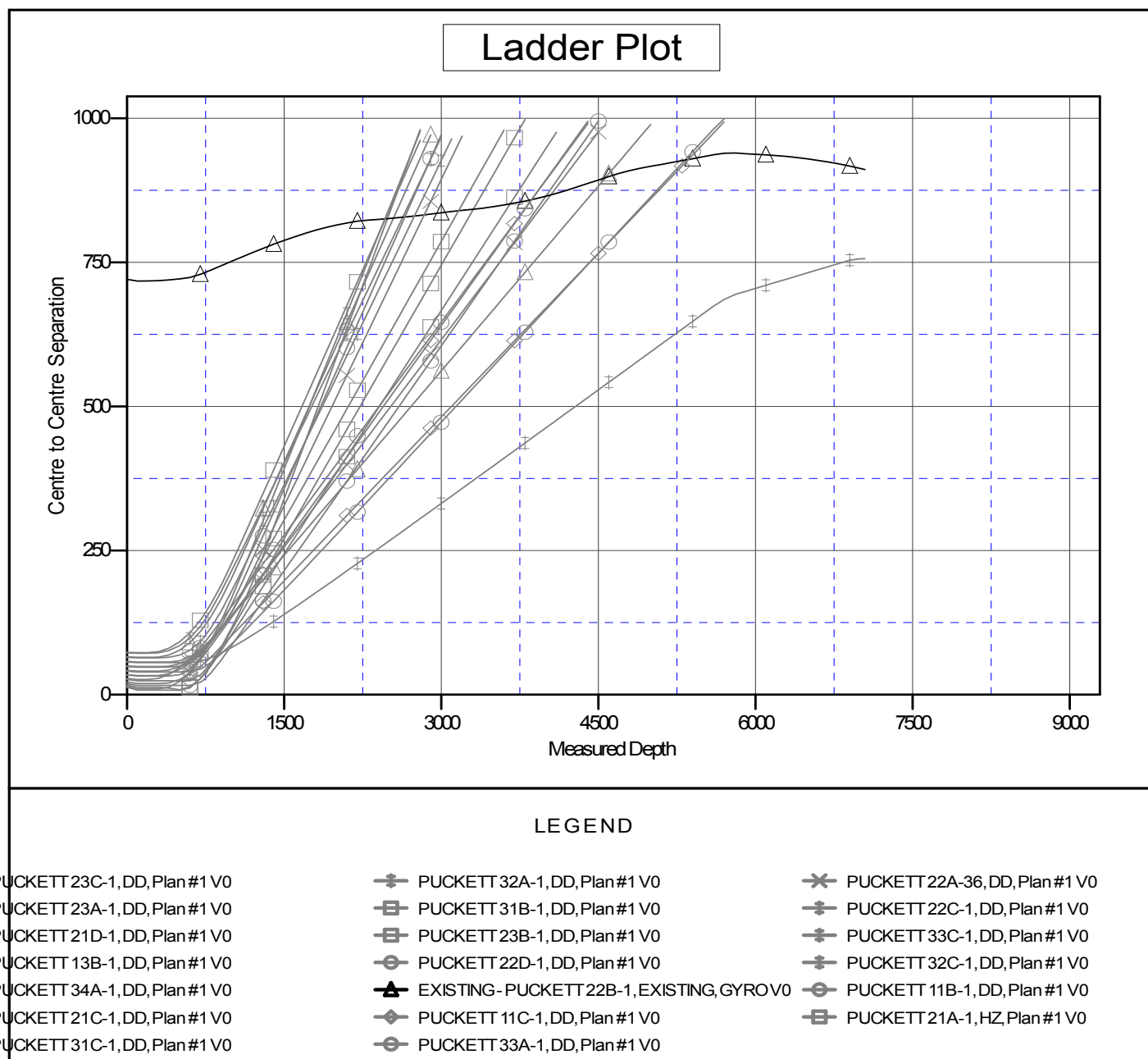
Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

Coordinates are relative to: PUCKETT SWD E1-797

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