



## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Federal 6/7-13-22
<b>Company:</b>	Coachman Energy Operating Company, LLC	<b>TVD Reference:</b>	DD @ 7073.0usft
<b>Project:</b>	Garfield County, CO	<b>MD Reference:</b>	DD @ 7073.0usft
<b>Site:</b>	S22-T6S-R91W	<b>North Reference:</b>	True
<b>Well:</b>	Federal 6/7-13-22	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	DD		
<b>Design:</b>	Plan #1		

<b>Project</b>	Garfield County, CO		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Colorado Northern Zone		

Site		S22-T6S-R91W			
Site Position:		Northing:	1,070,005.61 usft	Latitude:	39.507175
From:	Lat/Long	Easting:	2,421,858.13 usft	Longitude:	-107.549037
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-1.32 °

Well	Federal 6/7-13-22					
Well Position	+N/-S	0.0 usft	Northing:	1,069,983.02 usft	Latitude:	39.507114
	+E/-W	0.0 usft	Easting:	2,421,873.13 usft	Longitude:	-107.548982
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	7,047.0 usft

<b>Wellbore</b>	DD				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	HDGM	3/13/2015	9.60	65.67	51,942

<b>Design</b>	Plan #1				
<b>Audit Notes:</b>					
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.0	
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>	
	0.0	0.0	0.0	61.40	

<b>Plan Sections</b>										
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	
250.0	0.00	0.00	250.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,161.0	27.33	61.40	1,126.9	102.1	187.2	3.00	3.00	0.00	61.40	
4,657.6	27.33	61.40	4,233.1	870.6	1,596.7	0.00	0.00	0.00	0.00	
5,568.7	0.00	0.00	5,110.0	972.7	1,783.9	3.00	-3.00	0.00	180.00	6/7-13-22 TOG
8,533.7	0.00	0.00	8,075.0	972.7	1,783.9	0.00	0.00	0.00	0.00	

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<b>Company:</b>	Coachman Energy Operating Company, LLC	<b>TVD Reference:</b>	DD @ 7073.0usft
<b>Project:</b>	Garfield County, CO	<b>MD Reference:</b>	DD @ 7073.0usft
<b>Site:</b>	S22-T6S-R91W	<b>North Reference:</b>	True
<b>Well:</b>	Federal 6/7-13-22	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	DD		
<b>Design:</b>	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100u)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	
250.0	0.00	0.00	250.0	0.0	0.0	0.0	0.00	0.00	KOP @ 250'
300.0	1.50	61.40	300.0	0.3	0.6	0.7	3.00	3.00	
400.0	4.50	61.40	399.8	2.8	5.2	5.9	3.00	3.00	
500.0	7.50	61.40	499.3	7.8	14.3	16.3	3.00	3.00	
600.0	10.50	61.40	598.0	15.3	28.1	32.0	3.00	3.00	
700.0	13.50	61.40	695.8	25.3	46.3	52.8	3.00	3.00	
800.0	16.50	61.40	792.4	37.7	69.1	78.6	3.00	3.00	
900.0	19.50	61.40	887.5	52.4	96.2	109.5	3.00	3.00	
1,000.0	22.50	61.40	980.9	69.6	127.6	145.4	3.00	3.00	
1,100.0	25.50	61.40	1,072.2	89.1	163.3	186.0	3.00	3.00	
1,161.0	27.33	61.40	1,126.9	102.1	187.2	213.2	3.00	3.00	EOB; INC=27.33°
1,200.0	27.33	61.40	1,161.5	110.6	202.9	231.1	0.00	0.00	
1,300.0	27.33	61.40	1,250.3	132.6	243.2	277.0	0.00	0.00	
1,400.0	27.33	61.40	1,339.2	154.6	283.5	322.9	0.00	0.00	
1,500.0	27.33	61.40	1,428.0	176.6	323.8	368.8	0.00	0.00	
1,600.0	27.33	61.40	1,516.8	198.5	364.1	414.7	0.00	0.00	
1,700.0	27.33	61.40	1,605.7	220.5	404.4	460.7	0.00	0.00	
1,800.0	27.33	61.40	1,694.5	242.5	444.8	506.6	0.00	0.00	
1,900.0	27.33	61.40	1,783.3	264.5	485.1	552.5	0.00	0.00	
2,000.0	27.33	61.40	1,872.2	286.5	525.4	598.4	0.00	0.00	
2,100.0	27.33	61.40	1,961.0	308.4	565.7	644.3	0.00	0.00	
2,200.0	27.33	61.40	2,049.9	330.4	606.0	690.2	0.00	0.00	
2,300.0	27.33	61.40	2,138.7	352.4	646.3	736.1	0.00	0.00	
2,400.0	27.33	61.40	2,227.5	374.4	686.6	782.1	0.00	0.00	
2,500.0	27.33	61.40	2,316.4	396.4	726.9	828.0	0.00	0.00	
2,600.0	27.33	61.40	2,405.2	418.3	767.2	873.9	0.00	0.00	
2,700.0	27.33	61.40	2,494.0	440.3	807.5	919.8	0.00	0.00	
2,800.0	27.33	61.40	2,582.9	462.3	847.9	965.7	0.00	0.00	
2,900.0	27.33	61.40	2,671.7	484.3	888.2	1,011.6	0.00	0.00	
3,000.0	27.33	61.40	2,760.5	506.3	928.5	1,057.5	0.00	0.00	
3,100.0	27.33	61.40	2,849.4	528.2	968.8	1,103.4	0.00	0.00	
3,200.0	27.33	61.40	2,938.2	550.2	1,009.1	1,149.4	0.00	0.00	
3,300.0	27.33	61.40	3,027.1	572.2	1,049.4	1,195.3	0.00	0.00	
3,400.0	27.33	61.40	3,115.9	594.2	1,089.7	1,241.2	0.00	0.00	
3,500.0	27.33	61.40	3,204.7	616.2	1,130.0	1,287.1	0.00	0.00	
3,600.0	27.33	61.40	3,293.6	638.1	1,170.3	1,333.0	0.00	0.00	
3,700.0	27.33	61.40	3,382.4	660.1	1,210.7	1,378.9	0.00	0.00	
3,800.0	27.33	61.40	3,471.2	682.1	1,251.0	1,424.8	0.00	0.00	
3,900.0	27.33	61.40	3,560.1	704.1	1,291.3	1,470.8	0.00	0.00	
4,000.0	27.33	61.40	3,648.9	726.1	1,331.6	1,516.7	0.00	0.00	
4,100.0	27.33	61.40	3,737.8	748.0	1,371.9	1,562.6	0.00	0.00	
4,200.0	27.33	61.40	3,826.6	770.0	1,412.2	1,608.5	0.00	0.00	
4,300.0	27.33	61.40	3,915.4	792.0	1,452.5	1,654.4	0.00	0.00	
4,400.0	27.33	61.40	4,004.3	814.0	1,492.8	1,700.3	0.00	0.00	
4,500.0	27.33	61.40	4,093.1	836.0	1,533.1	1,746.2	0.00	0.00	
4,600.0	27.33	61.40	4,181.9	857.9	1,573.5	1,792.2	0.00	0.00	
4,657.6	27.33	61.40	4,233.1	870.6	1,596.7	1,818.6	0.00	0.00	Start Drop -3.00
4,700.0	26.06	61.40	4,271.0	879.7	1,613.4	1,837.6	3.00	-3.00	
4,800.0	23.06	61.40	4,361.9	899.6	1,649.9	1,879.2	3.00	-3.00	

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<b>Project:</b>	Garfield County, CO	<b>MD Reference:</b>	DD @ 7073.0usft
<b>Site:</b>	S22-T6S-R91W	<b>North Reference:</b>	True
<b>Well:</b>	Federal 6/7-13-22	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	DD		
<b>Design:</b>	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100u)	Comments / Formations
4,900.0	20.06	61.40	4,454.9	917.2	1,682.1	1,916.0	3.00	-3.00	
5,000.0	17.06	61.40	4,549.7	932.4	1,710.1	1,947.8	3.00	-3.00	
5,095.8	14.18	61.40	4,642.0	944.8	1,732.7	1,973.6	3.00	-3.00	Williams Fork
5,100.0	14.06	61.40	4,646.0	945.3	1,733.6	1,974.6	3.00	-3.00	
5,200.0	11.06	61.40	4,743.6	955.7	1,752.7	1,996.3	3.00	-3.00	
5,300.0	8.06	61.40	4,842.2	963.6	1,767.3	2,012.9	3.00	-3.00	
5,400.0	5.06	61.40	4,941.6	969.1	1,777.3	2,024.4	3.00	-3.00	
5,500.0	2.06	61.40	5,041.4	972.1	1,782.8	2,030.6	3.00	-3.00	
5,568.7	0.00	0.00	5,110.0	972.7	1,783.9	2,031.8	3.00	-3.00	EOD; INC=0° - Top of Gas - 6/7-13-22 TOG
5,600.0	0.00	0.00	5,141.3	972.7	1,783.9	2,031.8	0.00	0.00	
5,700.0	0.00	0.00	5,241.3	972.7	1,783.9	2,031.8	0.00	0.00	
5,800.0	0.00	0.00	5,341.3	972.7	1,783.9	2,031.8	0.00	0.00	
5,900.0	0.00	0.00	5,441.3	972.7	1,783.9	2,031.8	0.00	0.00	
6,000.0	0.00	0.00	5,541.3	972.7	1,783.9	2,031.8	0.00	0.00	
6,100.0	0.00	0.00	5,641.3	972.7	1,783.9	2,031.8	0.00	0.00	
6,200.0	0.00	0.00	5,741.3	972.7	1,783.9	2,031.8	0.00	0.00	
6,300.0	0.00	0.00	5,841.3	972.7	1,783.9	2,031.8	0.00	0.00	
6,400.0	0.00	0.00	5,941.3	972.7	1,783.9	2,031.8	0.00	0.00	
6,500.0	0.00	0.00	6,041.3	972.7	1,783.9	2,031.8	0.00	0.00	
6,600.0	0.00	0.00	6,141.3	972.7	1,783.9	2,031.8	0.00	0.00	
6,700.0	0.00	0.00	6,241.3	972.7	1,783.9	2,031.8	0.00	0.00	
6,800.0	0.00	0.00	6,341.3	972.7	1,783.9	2,031.8	0.00	0.00	
6,900.0	0.00	0.00	6,441.3	972.7	1,783.9	2,031.8	0.00	0.00	
7,000.0	0.00	0.00	6,541.3	972.7	1,783.9	2,031.8	0.00	0.00	
7,100.0	0.00	0.00	6,641.3	972.7	1,783.9	2,031.8	0.00	0.00	
7,200.0	0.00	0.00	6,741.3	972.7	1,783.9	2,031.8	0.00	0.00	
7,300.0	0.00	0.00	6,841.3	972.7	1,783.9	2,031.8	0.00	0.00	
7,400.0	0.00	0.00	6,941.3	972.7	1,783.9	2,031.8	0.00	0.00	
7,500.0	0.00	0.00	7,041.3	972.7	1,783.9	2,031.8	0.00	0.00	
7,600.0	0.00	0.00	7,141.3	972.7	1,783.9	2,031.8	0.00	0.00	
7,700.0	0.00	0.00	7,241.3	972.7	1,783.9	2,031.8	0.00	0.00	
7,800.0	0.00	0.00	7,341.3	972.7	1,783.9	2,031.8	0.00	0.00	
7,900.0	0.00	0.00	7,441.3	972.7	1,783.9	2,031.8	0.00	0.00	
8,000.0	0.00	0.00	7,541.3	972.7	1,783.9	2,031.8	0.00	0.00	
8,100.0	0.00	0.00	7,641.3	972.7	1,783.9	2,031.8	0.00	0.00	
8,166.7	0.00	0.00	7,708.0	972.7	1,783.9	2,031.8	0.00	0.00	Cameo
8,200.0	0.00	0.00	7,741.3	972.7	1,783.9	2,031.8	0.00	0.00	
8,300.0	0.00	0.00	7,841.3	972.7	1,783.9	2,031.8	0.00	0.00	
8,400.0	0.00	0.00	7,941.3	972.7	1,783.9	2,031.8	0.00	0.00	
8,430.7	0.00	0.00	7,972.0	972.7	1,783.9	2,031.8	0.00	0.00	Rollins
8,500.0	0.00	0.00	8,041.3	972.7	1,783.9	2,031.8	0.00	0.00	
8,533.7	0.00	0.00	8,075.0	972.7	1,783.9	2,031.8	0.00	0.00	TD at 8533.7

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Federal 6/7-13-22
<b>Company:</b>	Coachman Energy Operating Company, LLC	<b>TVD Reference:</b>	DD @ 7073.0usft
<b>Project:</b>	Garfield County, CO	<b>MD Reference:</b>	DD @ 7073.0usft
<b>Site:</b>	S22-T6S-R91W	<b>North Reference:</b>	True
<b>Well:</b>	Federal 6/7-13-22	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	DD		
<b>Design:</b>	Plan #1		

Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
6/7-13-22 TOG	0.00	0.00	5,110.0	972.7	1,783.9	1,070,914.22	2,423,678.99	39.509784	-107.542660
- plan hits target center									
- Circle (radius 75.0)									

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(usft)	(usft)			(°)	(°)	
5,095.8	4,642.0	Williams Fork				
5,568.7	5,110.0	Top of Gas				
8,166.7	7,708.0	Cameo				
8,430.7	7,972.0	Rollins				

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates			
(usft)	(usft)	+N/-S	+E/-W	Comment	
(usft)	(usft)	(usft)	(usft)		
250.0	250.0	0.0	0.0	KOP @ 250'	
1,161.0	1,126.9	102.1	187.2	EOB; INC=27.33°	
4,657.6	4,233.1	870.6	1,596.7	Start Drop -3.00	
5,568.7	5,110.0	972.7	1,783.9	EOD; INC=0°	
8,533.7	8,075.0	972.7	1,783.9	TD at 8533.7	

# **Coachman Energy Operating Company, LLC**

**Garfield County, CO**

**S22-T6S-R91W**

**Federal 6/7-13-22**

**DD**

**Plan #1**

## **Anticollision Report**

**16 March, 2015**

## Anticollision Report

<b>Company:</b>	Coachman Energy Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well Federal 6/7-13-22
<b>Project:</b>	Garfield County, CO	<b>TVD Reference:</b>	DD @ 7073.0usft
<b>Reference Site:</b>	S22-T6S-R91W	<b>MD Reference:</b>	DD @ 7073.0usft
<b>Site Error:</b>	0.0usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Federal 6/7-13-22	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Reference	Plan #1		
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	3/16/2015		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	8,533.7	Plan #1 (DD)	ISCWSA MWD	MWD - ISCWSA	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
S22-T6S-R91W						
Federal 2/3-11-22 - DD - Plan #1	200.0	200.0	27.1	26.5	44.015	CC, ES
Federal 2/3-11-22 - DD - Plan #1	600.0	593.5	56.5	53.8	20.990	SF
Federal 2/3-12-22 - DD - Plan #1	250.0	250.0	16.9	16.0	20.092	CC, ES
Federal 2/3-12-22 - DD - Plan #1	400.0	399.8	20.9	19.4	13.534	SF
Federal 2/3-13-22 - DD - Plan #1	250.0	250.0	16.8	16.0	19.983	CC, ES
Federal 2/3-13-22 - DD - Plan #1	500.0	501.4	25.4	23.2	11.823	SF
Federal 2/3-14-22 - DD - Plan #1	250.0	250.0	26.9	26.1	32.039	CC, ES
Federal 2/3-14-22 - DD - Plan #1	700.0	705.3	47.2	43.9	14.381	SF
Federal 2/3-15-22 - DD - Plan #1	250.0	250.0	40.2	39.3	47.804	CC, ES
Federal 2/3-15-22 - DD - Plan #1	700.0	703.9	53.9	50.6	16.405	SF
Federal 2/3-16-22 - DD - Plan #1	250.0	250.0	54.6	53.8	64.950	CC, ES
Federal 2/3-16-22 - DD - Plan #1	800.0	798.9	101.9	97.9	25.612	SF
Federal 6/7-14-22 - DD - Plan #1	313.0	313.2	14.5	13.4	12.924	CC, ES
Federal 6/7-14-22 - DD - Plan #1	8,533.7	8,473.0	329.0	249.7	4.148	SF
Federal 6/7-15-22 - DD - Plan #1	250.0	250.0	29.9	29.0	35.540	CC
Federal 6/7-15-22 - DD - Plan #1	300.0	300.1	30.1	29.0	28.324	ES
Federal 6/7-15-22 - DD - Plan #1	8,533.7	8,444.3	658.0	578.6	8.293	SF
Federal 6/7-16-22 - DD - Plan #1	200.0	200.0	44.8	44.2	72.765	CC
Federal 6/7-16-22 - DD - Plan #1	250.0	250.0	44.8	44.0	53.441	ES
Federal 6/7-16-22 - DD - Plan #1	8,533.7	8,428.7	986.9	907.6	12.435	SF

# Anticollision Report

<b>Company:</b>	Coachman Energy Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well Federal 6/7-13-22
<b>Project:</b>	Garfield County, CO	<b>TVD Reference:</b>	DD @ 7073.0usft
<b>Reference Site:</b>	S22-T6S-R91W	<b>MD Reference:</b>	DD @ 7073.0usft
<b>Site Error:</b>	0.0usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Federal 6/7-13-22	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S22-T6S-R91W - Federal 2/3-11-22 - 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	-34.93	22.2	-15.5	27.1					
100.0	100.0	100.0	100.0	0.1	0.1	-34.93	22.2	-15.5	27.1	26.9	0.17	162.976		
200.0	200.0	200.0	200.0	0.3	0.3	-34.93	22.2	-15.5	27.1	26.5	0.62	44.015 CC, ES		
250.0	250.0	249.5	249.5	0.4	0.4	-33.89	22.8	-15.3	27.5	26.7	0.84	32.765		
300.0	300.0	299.0	299.0	0.5	0.5	-93.59	24.7	-14.8	28.8	27.8	1.06	27.082		
400.0	399.8	397.8	397.4	0.8	0.8	-92.47	32.1	-12.7	34.3	32.8	1.54	22.343		
500.0	499.3	496.0	494.8	1.0	1.0	-93.45	44.2	-9.2	43.6	41.5	2.07	21.069		
600.0	598.0	593.5	590.7	1.3	1.4	-95.23	61.0	-4.3	56.5	53.8	2.69	20.990 SF		
700.0	695.8	690.1	684.7	1.7	1.8	-97.05	82.3	1.9	73.2	69.7	3.44	21.287		
800.0	792.4	785.5	776.4	2.2	2.3	-98.59	107.8	9.2	93.6	89.2	4.33	21.618		
900.0	887.5	879.6	865.4	2.8	2.8	-99.78	132.2	17.7	117.6	112.2	5.37	21.888		
1,000.0	980.9	974.8	954.2	3.4	3.5	-101.11	170.1	27.2	144.5	138.0	6.56	22.038		
1,100.0	1,072.2	1,070.3	1,043.2	4.2	4.1	-103.41	203.4	36.9	172.9	165.1	7.87	21.976		
1,161.0	1,126.9	1,128.2	1,097.1	4.7	4.5	-105.09	223.5	42.7	191.1	182.4	8.72	21.917		
1,200.0	1,161.5	1,165.0	1,131.5	5.1	4.7	-106.48	236.3	46.4	203.0	193.7	9.27	21.883		
1,300.0	1,250.3	1,259.5	1,219.5	6.0	5.4	-109.41	269.2	55.9	233.9	223.2	10.70	21.858		
1,400.0	1,339.2	1,354.0	1,307.6	6.9	6.1	-111.66	302.1	65.4	265.2	253.1	12.12	21.882		
1,500.0	1,428.0	1,448.6	1,395.7	7.8	6.7	-113.43	335.0	74.9	296.8	283.3	13.53	21.928		
1,600.0	1,516.8	1,543.1	1,483.8	8.7	7.4	-114.87	367.9	84.4	328.6	313.7	14.95	21.985		
1,700.0	1,605.7	1,637.6	1,571.9	9.6	8.0	-116.05	400.8	94.0	360.6	344.2	16.36	22.044		
1,800.0	1,694.5	1,732.1	1,660.0	10.6	8.7	-117.04	433.7	103.5	392.7	374.9	17.77	22.102		
1,900.0	1,783.3	1,826.6	1,748.1	11.5	9.3	-117.88	466.6	113.0	424.9	405.7	19.17	22.159		
2,000.0	1,872.2	1,921.1	1,836.2	12.4	10.0	-118.60	499.5	122.5	457.1	436.6	20.58	22.212		
2,100.0	1,961.0	2,015.6	1,924.2	13.4	10.7	-119.23	532.3	132.0	489.5	467.5	21.99	22.262		
2,200.0	2,049.9	2,110.1	2,012.3	14.3	11.3	-119.78	565.2	141.5	521.8	498.4	23.39	22.308		
2,300.0	2,138.7	2,204.6	2,100.4	15.2	12.0	-120.26	598.1	151.0	554.2	529.4	24.80	22.352		
2,400.0	2,227.5	2,299.1	2,188.5	16.2	12.7	-120.69	631.0	160.5	586.6	560.4	26.20	22.392		
2,500.0	2,316.4	2,393.6	2,276.6	17.1	13.3	-121.08	663.9	170.1	619.1	591.5	27.60	22.429		
2,600.0	2,405.2	2,488.1	2,364.7	18.0	14.0	-121.43	696.8	179.6	651.6	622.6	29.01	22.464		
2,700.0	2,494.0	2,582.7	2,452.8	19.0	14.6	-121.74	729.7	189.1	684.1	653.7	30.41	22.497		
2,800.0	2,582.9	2,677.2	2,540.9	19.9	15.3	-122.03	762.6	198.6	716.6	684.8	31.81	22.527		
2,900.0	2,671.7	2,771.7	2,628.9	20.8	16.0	-122.29	795.5	208.1	749.1	715.9	33.21	22.555		
3,000.0	2,760.5	2,866.2	2,717.0	21.8	16.6	-122.53	828.4	217.6	781.7	747.0	34.61	22.582		
3,100.0	2,849.4	2,960.7	2,805.1	22.7	17.3	-122.75	861.3	227.1	814.2	778.2	36.02	22.606		
3,200.0	2,938.2	3,055.2	2,893.2	23.6	18.0	-122.96	894.2	236.6	846.8	809.4	37.42	22.630		
3,300.0	3,027.1	3,149.7	2,981.3	24.6	18.6	-123.15	927.1	246.1	879.3	840.5	38.82	22.651		
3,400.0	3,115.9	3,244.2	3,069.4	25.5	19.3	-123.32	960.0	255.7	911.9	871.7	40.22	22.672		
3,500.0	3,204.7	3,338.7	3,157.5	26.5	20.0	-123.48	992.9	265.2	944.5	902.9	41.62	22.691		
3,600.0	3,293.6	3,433.2	3,245.6	27.4	20.6	-123.64	1,025.7	274.7	977.1	934.1	43.03	22.710		



# Anticollision Report

<b>Company:</b>	Coachman Energy Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well Federal 6/7-13-22
<b>Project:</b>	Garfield County, CO	<b>TVD Reference:</b>	DD @ 7073.0usft
<b>Reference Site:</b>	S22-T6S-R91W	<b>MD Reference:</b>	DD @ 7073.0usft
<b>Site Error:</b>	0.0usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Federal 6/7-13-22	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S22-T6S-R91W - Federal 2/3-12-22 - 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	-64.45	7.3	-15.2	16.9					
100.0	100.0	100.0	100.0	0.1	0.1	-64.45	7.3	-15.2	16.9	16.7	101.545			
200.0	200.0	200.0	200.0	0.3	0.3	-64.45	7.3	-15.2	16.9	16.3	0.62	27.425		
250.0	250.0	250.0	250.0	0.4	0.4	-64.45	7.3	-15.2	16.9	16.0	0.84	20.092 CC, ES		
300.0	300.0	300.0	299.9	0.5	0.5	-125.44	7.9	-15.0	17.3	16.3	1.07	16.233		
400.0	399.8	399.8	399.6	0.8	0.8	-122.79	12.8	-13.2	20.9	19.4	1.55	13.534 SF		
500.0	499.3	499.3	498.6	1.0	1.0	-119.50	22.5	-9.7	28.2	26.1	2.07	13.576		
600.0	598.0	598.3	596.3	1.3	1.3	-116.80	37.0	-4.4	39.1	36.4	2.69	14.537		
700.0	695.8	696.6	692.5	1.7	1.7	-114.81	56.1	2.6	53.6	50.2	3.42	15.682		
800.0	792.4	794.0	786.7	2.2	2.1	-113.35	79.6	11.2	71.7	67.4	4.29	16.702		
900.0	887.5	891.4	879.7	2.8	2.7	-112.86	106.5	21.0	92.9	87.6	5.31	17.497		
1,000.0	980.9	988.5	972.5	3.4	3.2	-114.57	133.6	31.0	116.3	109.9	6.42	18.103		
1,100.0	1,072.2	1,084.8	1,064.4	4.2	3.7	-117.37	160.6	40.8	142.1	134.5	7.60	18.688		
1,161.0	1,126.9	1,143.1	1,120.0	4.7	4.1	-119.31	176.8	46.7	159.3	150.9	8.35	19.080		
1,200.0	1,161.5	1,180.1	1,155.4	5.1	4.3	-120.78	187.2	50.5	170.6	161.8	8.82	19.352		
1,300.0	1,250.3	1,275.2	1,246.2	6.0	4.8	-123.79	213.7	60.2	200.2	190.2	10.02	19.988		
1,400.0	1,339.2	1,370.3	1,336.9	6.9	5.4	-126.03	240.3	69.9	230.1	218.9	11.21	20.536		
1,500.0	1,428.0	1,465.3	1,427.7	7.8	5.9	-127.75	266.9	79.6	260.3	247.9	12.39	21.007		
1,600.0	1,516.8	1,560.4	1,518.5	8.7	6.5	-129.12	293.4	89.4	290.7	277.1	13.58	21.412		
1,700.0	1,605.7	1,655.5	1,609.2	9.6	7.0	-130.23	320.0	99.1	321.2	306.4	14.76	21.761		
1,800.0	1,694.5	1,750.5	1,700.0	10.6	7.6	-131.14	346.5	108.8	351.8	335.8	15.94	22.065		
1,900.0	1,783.3	1,845.6	1,790.8	11.5	8.2	-131.91	373.1	118.5	382.4	365.3	17.12	22.332		
2,000.0	1,872.2	1,940.7	1,881.5	12.4	8.7	-132.57	399.7	128.2	413.1	394.8	18.31	22.566		
2,100.0	1,961.0	2,035.8	1,972.3	13.4	9.3	-133.14	426.2	137.9	443.8	424.4	19.49	22.775		
2,200.0	2,049.9	2,130.8	2,063.1	14.3	9.8	-133.63	452.8	147.6	474.6	453.9	20.67	22.960		
2,300.0	2,138.7	2,225.9	2,153.9	15.2	10.4	-134.06	479.3	157.3	505.4	483.6	21.85	23.127		
2,400.0	2,227.5	2,321.0	2,244.6	16.2	11.0	-134.44	505.9	167.0	536.2	513.2	23.04	23.277		
2,500.0	2,316.4	2,416.1	2,335.4	17.1	11.5	-134.78	532.5	176.7	567.1	542.9	24.22	23.413		
2,600.0	2,405.2	2,511.1	2,426.2	18.0	12.1	-135.09	559.0	186.4	598.0	572.5	25.41	23.536		
2,700.0	2,494.0	2,606.2	2,516.9	19.0	12.6	-135.37	585.6	196.2	628.8	602.2	26.59	23.649		
2,800.0	2,582.9	2,701.3	2,607.7	19.9	13.2	-135.62	612.1	205.9	659.7	631.9	27.77	23.753		
2,900.0	2,671.7	2,796.3	2,698.5	20.8	13.8	-135.84	638.7	215.6	690.6	661.7	28.96	23.848		
3,000.0	2,760.5	2,891.4	2,789.2	21.8	14.3	-136.05	665.3	225.3	721.5	691.4	30.14	23.936		
3,100.0	2,849.4	2,986.5	2,880.0	22.7	14.9	-136.24	691.8	235.0	752.4	721.1	31.33	24.017		
3,200.0	2,938.2	3,081.6	2,970.8	23.6	15.4	-136.42	718.4	244.7	783.4	750.8	32.51	24.092		
3,300.0	3,027.1	3,176.6	3,061.6	24.6	16.0	-136.58	744.9	254.4	814.3	780.6	33.70	24.162		
3,400.0	3,115.9	3,271.7	3,152.3	25.5	16.6	-136.73	771.5	264.1	845.2	810.3	34.89	24.228		
3,500.0	3,204.7	3,366.8	3,243.1	26.5	17.1	-136.87	798.1	273.8	876.2	840.1	36.07	24.289		
3,600.0	3,293.6	3,461.9	3,333.9	27.4	17.7	-137.00	824.6	283.5	907.1	869.8	37.26	24.346		
3,700.0	3,382.4	3,556.9	3,424.6	28.3	18.3	-137.12	851.2	293.2	938.0	899.6	38.44	24.400		
3,800.0	3,471.2	3,652.0	3,515.4	29.3	18.8	-137.24	877.7	303.0	969.0	929.4	39.63	24.451		
3,900.0	3,560.1	3,747.1	3,606.2	30.2	19.4	-137.35	904.3	312.7	999.9	959.1	40.82	24.498		

# Anticollision Report

<b>Company:</b>	Coachman Energy Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well Federal 6/7-13-22
<b>Project:</b>	Garfield County, CO	<b>TVD Reference:</b>	DD @ 7073.0usft
<b>Reference Site:</b>	S22-T6S-R91W	<b>MD Reference:</b>	DD @ 7073.0usft
<b>Site Error:</b>	0.0usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Federal 6/7-13-22	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S22-T6S-R91W - Federal 2/3-13-22 - 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	-117.09	-7.6	-15.0	16.8					
100.0	100.0	100.0	100.0	0.1	0.1	-117.09	-7.6	-15.0	16.8	16.6	0.17	100.996		
200.0	200.0	200.0	200.0	0.3	0.3	-117.09	-7.6	-15.0	16.8	16.2	0.62	27.276		
250.0	250.0	250.0	250.0	0.4	0.4	-117.09	-7.6	-15.0	16.8	16.0	0.84	19.983 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	-178.54	-7.6	-15.0	17.5	16.4	1.08	16.148		
400.0	399.8	400.7	400.7	0.8	0.8	-174.51	-5.3	-13.8	20.6	19.0	1.61	12.842		
500.0	499.3	501.4	501.0	1.0	1.0	-165.02	1.9	-10.3	25.4	23.2	2.15	11.823 SF		
600.0	598.0	601.8	600.6	1.3	1.3	-154.22	13.7	-4.4	32.6	29.9	2.71	12.033		
700.0	695.8	701.9	698.9	1.7	1.6	-144.69	30.1	3.7	43.0	39.7	3.36	12.816		
800.0	792.4	801.1	795.6	2.2	2.0	-137.88	50.4	13.7	56.9	52.8	4.13	13.781		
900.0	887.5	899.5	891.2	2.8	2.4	-136.03	71.0	23.8	74.8	69.8	4.99	14.984		
1,000.0	980.9	997.1	986.1	3.4	2.9	-136.90	91.4	33.9	96.4	90.5	5.90	16.345		
1,100.0	1,072.2	1,093.7	1,080.0	4.2	3.3	-138.92	111.6	43.9	121.8	115.0	6.81	17.878		
1,161.0	1,126.9	1,152.0	1,136.8	4.7	3.6	-140.36	123.8	49.9	139.3	132.0	7.37	18.897		
1,200.0	1,161.5	1,189.1	1,172.8	5.1	3.8	-141.44	131.6	53.7	151.0	143.3	7.71	19.588		
1,300.0	1,250.3	1,284.2	1,265.3	6.0	4.2	-143.57	151.5	63.6	181.3	172.7	8.59	21.113		
1,400.0	1,339.2	1,379.4	1,357.9	6.9	4.7	-145.09	171.4	73.4	211.6	202.2	9.47	22.358		
1,500.0	1,428.0	1,474.5	1,450.4	7.8	5.1	-146.24	191.3	83.2	242.1	231.8	10.35	23.386		
1,600.0	1,516.8	1,569.7	1,542.9	8.7	5.6	-147.12	211.2	93.0	272.7	261.4	11.25	24.245		
1,700.0	1,605.7	1,664.8	1,635.4	9.6	6.0	-147.83	231.1	102.8	303.2	291.1	12.14	24.971		
1,800.0	1,694.5	1,760.0	1,727.9	10.6	6.5	-148.41	251.1	112.7	333.9	320.8	13.05	25.591		
1,900.0	1,783.3	1,855.1	1,820.5	11.5	6.9	-148.89	271.0	122.5	364.5	350.6	13.95	26.126		
2,000.0	1,872.2	1,950.3	1,913.0	12.4	7.4	-149.30	290.9	132.3	395.2	380.3	14.86	26.592		
2,100.0	1,961.0	2,045.4	2,005.5	13.4	7.9	-149.65	310.8	142.1	425.9	410.1	15.77	27.000		
2,200.0	2,049.9	2,140.6	2,098.0	14.3	8.3	-149.95	330.7	152.0	456.6	439.9	16.69	27.361		
2,300.0	2,138.7	2,235.7	2,190.5	15.2	8.8	-150.21	350.6	161.8	487.3	469.7	17.60	27.682		
2,400.0	2,227.5	2,330.8	2,283.0	16.2	9.2	-150.44	370.5	171.6	518.0	499.5	18.52	27.969		
2,500.0	2,316.4	2,426.0	2,375.6	17.1	9.7	-150.65	390.4	181.4	548.7	529.3	19.44	28.227		
2,600.0	2,405.2	2,521.1	2,468.1	18.0	10.1	-150.83	410.4	191.3	579.5	559.1	20.36	28.461		
2,700.0	2,494.0	2,616.3	2,560.6	19.0	10.6	-151.00	430.3	201.1	610.2	588.9	21.28	28.673		
2,800.0	2,582.9	2,711.4	2,653.1	19.9	11.1	-151.15	450.2	210.9	640.9	618.7	22.20	28.866		
2,900.0	2,671.7	2,806.6	2,745.6	20.8	11.5	-151.29	470.1	220.7	671.7	648.5	23.13	29.043		
3,000.0	2,760.5	2,901.7	2,838.2	21.8	12.0	-151.41	490.0	230.6	702.4	678.4	24.05	29.205		
3,100.0	2,849.4	2,996.9	2,930.7	22.7	12.4	-151.52	509.9	240.4	733.2	708.2	24.98	29.355		
3,200.0	2,938.2	3,092.0	3,023.2	23.6	12.9	-151.63	529.8	250.2	763.9	738.0	25.90	29.493		
3,300.0	3,027.1	3,187.2	3,115.7	24.6	13.4	-151.73	549.8	260.0	794.7	767.8	26.83	29.622		
3,400.0	3,115.9	3,282.3	3,208.2	25.5	13.8	-151.82	569.7	269.9	825.4	797.7	27.75	29.741		
3,500.0	3,204.7	3,377.5	3,300.7	26.5	14.3	-151.90	589.6	279.7	856.2	827.5	28.68	29.852		
3,600.0	3,293.6	3,472.6	3,393.3	27.4	14.7	-151.98	609.5	289.5	886.9	857.3	29.61	29.956		
3,700.0	3,382.4	3,567.7	3,485.8	28.3	15.2	-152.05	629.4	299.3	917.7	887.1	30.54	30.053		
3,800.0	3,471.2	3,662.9	3,578.3	29.3	15.7	-152.11	649.3	309.2	948.4	917.0	31.46	30.144		
3,900.0	3,560.1	3,758.0	3,670.8	30.2	16.1	-152.18	669.2	319.0	979.2	946.8	32.39	30.230		

# Anticollision Report

<b>Company:</b>	Coachman Energy Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well Federal 6/7-13-22
<b>Project:</b>	Garfield County, CO	<b>TVD Reference:</b>	DD @ 7073.0usft
<b>Reference Site:</b>	S22-T6S-R91W	<b>MD Reference:</b>	DD @ 7073.0usft
<b>Site Error:</b>	0.0usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Federal 6/7-13-22	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S22-T6S-R91W - Federal 2/3-14-22 - 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	-146.99	-22.6	-14.7	26.9					
100.0	100.0	100.0	100.0	0.1	0.1	-146.99	-22.6	-14.7	26.9	26.8	0.17	161.927		
200.0	200.0	200.0	200.0	0.3	0.3	-146.99	-22.6	-14.7	26.9	26.3	0.62	43.732		
250.0	250.0	250.0	250.0	0.4	0.4	-146.99	-22.6	-14.7	26.9	26.1	0.84	32.039 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	152.25	-22.6	-14.7	27.5	26.4	1.08	25.543		
400.0	399.8	400.7	400.7	0.8	0.8	156.60	-22.0	-14.3	31.6	30.0	1.60	19.777		
500.0	499.3	502.3	502.1	1.0	1.0	163.44	-17.7	-11.0	36.1	34.0	2.15	16.837		
600.0	598.0	604.0	603.3	1.3	1.2	171.88	-9.1	-4.6	41.1	38.4	2.71	15.158		
700.0	695.8	705.3	703.3	1.7	1.5	-178.98	3.7	5.0	47.2	43.9	3.28	14.381 SF		
800.0	792.4	804.5	801.0	2.2	1.9	-172.00	17.5	15.3	58.0	54.1	3.89	14.925		
900.0	887.5	903.0	898.0	2.8	2.2	-168.08	31.2	25.6	74.5	69.9	4.52	16.477		
1,000.0	980.9	1,000.6	994.1	3.4	2.6	-166.27	44.7	35.8	96.1	90.9	5.17	18.596		
1,100.0	1,072.2	1,097.0	1,089.0	4.2	2.9	-165.66	58.1	45.8	122.7	116.9	5.82	21.074		
1,161.0	1,126.9	1,155.1	1,146.3	4.7	3.2	-165.61	66.2	51.8	141.4	135.1	6.23	22.698		
1,200.0	1,161.5	1,192.0	1,182.6	5.1	3.3	-165.72	71.3	55.7	153.8	147.4	6.45	23.842		
1,300.0	1,250.3	1,286.8	1,275.9	6.0	3.7	-165.94	84.5	65.5	185.8	178.8	7.05	26.343		
1,400.0	1,339.2	1,381.5	1,369.2	6.9	4.0	-166.09	97.6	75.4	217.8	210.2	7.68	28.372		
1,500.0	1,428.0	1,476.2	1,462.5	7.8	4.4	-166.20	110.8	85.3	249.9	241.5	8.31	30.049		
1,600.0	1,516.8	1,571.0	1,555.8	8.7	4.7	-166.29	124.0	95.1	281.9	272.9	8.96	31.450		
1,700.0	1,605.7	1,665.7	1,649.1	9.6	5.1	-166.36	137.1	105.0	313.9	304.3	9.62	32.634		
1,800.0	1,694.5	1,760.4	1,742.4	10.6	5.5	-166.42	150.3	114.9	345.9	335.6	10.28	33.645		
1,900.0	1,783.3	1,855.2	1,835.7	11.5	5.8	-166.46	163.4	124.7	377.9	366.9	10.95	34.517		
2,000.0	1,872.2	1,949.9	1,929.0	12.4	6.2	-166.50	176.6	134.6	409.9	398.3	11.62	35.276		
2,100.0	1,961.0	2,044.7	2,022.3	13.4	6.6	-166.54	189.8	144.4	441.9	429.6	12.29	35.943		
2,200.0	2,049.9	2,139.4	2,115.6	14.3	6.9	-166.57	202.9	154.3	473.9	461.0	12.97	36.532		
2,300.0	2,138.7	2,234.1	2,208.9	15.2	7.3	-166.59	216.1	164.2	505.9	492.3	13.65	37.057		
2,400.0	2,227.5	2,328.9	2,302.2	16.2	7.7	-166.62	229.2	174.0	537.9	523.6	14.34	37.527		
2,500.0	2,316.4	2,423.6	2,395.5	17.1	8.0	-166.64	242.4	183.9	570.0	554.9	15.03	37.931		
2,600.0	2,405.2	2,518.3	2,488.8	18.0	8.4	-166.66	255.6	193.7	602.0	586.3	15.72	38.295		
2,700.0	2,494.0	2,613.1	2,582.1	19.0	8.8	-166.67	268.7	203.6	634.0	617.6	16.41	38.624		
2,800.0	2,582.9	2,707.8	2,675.4	19.9	9.1	-166.69	281.9	213.5	666.0	648.9	17.11	38.923		
2,900.0	2,671.7	2,802.6	2,768.7	20.8	9.5	-166.70	295.1	223.3	698.0	680.2	17.81	39.196		
3,000.0	2,760.5	2,897.3	2,862.0	21.8	9.9	-166.71	308.2	233.2	730.0	711.5	18.51	39.446		
3,100.0	2,849.4	2,992.0	2,955.3	22.7	10.2	-166.72	321.4	243.1	762.0	742.8	19.21	39.675		
3,200.0	2,938.2	3,086.8	3,048.6	23.6	10.6	-166.73	334.5	252.9	794.0	774.1	19.91	39.887		
3,300.0	3,027.1	3,181.5	3,141.9	24.6	11.0	-166.74	347.7	262.8	826.1	805.4	20.61	40.082		
3,400.0	3,115.9	3,276.2	3,235.2	25.5	11.3	-166.75	360.9	272.6	858.1	836.8	21.31	40.264		
3,500.0	3,204.7	3,371.0	3,328.5	26.5	11.7	-166.76	374.0	282.5	890.1	868.1	22.01	40.432		
3,600.0	3,293.6	3,465.7	3,421.8	27.4	12.1	-166.77	387.2	292.4	922.1	899.4	22.72	40.589		
3,700.0	3,382.4	3,560.5	3,515.1	28.3	12.4	-166.77	400.4	302.2	954.1	930.7	23.42	40.736		
3,800.0	3,471.2	3,655.2	3,608.4	29.3	12.8	-166.78	413.5	312.1	986.1	962.0	24.13	40.873		

# Anticollision Report

<b>Company:</b>	Coachman Energy Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well Federal 6/7-13-22
<b>Project:</b>	Garfield County, CO	<b>TVD Reference:</b>	DD @ 7073.0usft
<b>Reference Site:</b>	S22-T6S-R91W	<b>MD Reference:</b>	DD @ 7073.0usft
<b>Site Error:</b>	0.0usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Federal 6/7-13-22	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S22-T6S-R91W - Federal 2/3-15-22 - 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	-159.02	-37.5	-14.4	40.2					
100.0	100.0	100.0	100.0	0.1	0.1	-159.02	-37.5	-14.4	40.2	40.0	0.17	241.603		
200.0	200.0	200.0	200.0	0.3	0.3	-159.02	-37.5	-14.4	40.2	39.6	0.62	65.250		
250.0	250.0	250.0	250.0	0.4	0.4	-159.02	-37.5	-14.4	40.2	39.3	0.84	47.804 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	140.17	-37.5	-14.4	40.7	39.6	1.07	37.899		
400.0	399.8	401.8	401.8	0.8	0.8	142.63	-36.0	-12.1	42.6	41.0	1.57	27.060		
500.0	499.3	503.7	503.4	1.0	1.0	145.28	-31.6	-5.3	44.2	42.1	2.11	20.960		
600.0	598.0	604.3	603.2	1.3	1.3	148.81	-24.9	4.8	46.8	44.1	2.68	17.435		
700.0	695.8	703.9	702.0	1.7	1.6	154.38	-18.2	15.0	53.9	50.6	3.29	16.405 SF		
800.0	792.4	802.9	800.3	2.2	1.9	160.19	-11.6	25.2	66.4	62.5	3.90	17.031		
900.0	887.5	901.1	897.7	2.8	2.2	165.06	-5.0	35.3	84.3	79.8	4.50	18.731		
1,000.0	980.9	998.1	994.0	3.4	2.5	168.74	1.6	45.3	107.6	102.5	5.10	21.121		
1,100.0	1,072.2	1,093.8	1,088.9	4.2	2.7	171.40	8.0	55.1	136.2	130.6	5.69	23.958		
1,161.0	1,126.9	1,151.3	1,146.1	4.7	2.9	172.65	11.9	61.0	156.2	150.2	6.04	25.855		
1,200.0	1,161.5	1,187.9	1,182.3	5.1	3.0	173.36	14.4	64.8	169.6	163.4	6.24	27.183		
1,300.0	1,250.3	1,281.7	1,275.4	6.0	3.3	174.76	20.7	74.4	204.1	197.3	6.76	30.184		
1,400.0	1,339.2	1,375.4	1,368.5	6.9	3.6	175.76	27.0	84.1	238.6	231.3	7.30	32.704		
1,500.0	1,428.0	1,469.2	1,461.6	7.8	3.9	176.50	33.3	93.7	273.1	265.3	7.84	34.832		
1,600.0	1,516.8	1,563.0	1,554.6	8.7	4.2	177.08	39.6	103.4	307.7	299.3	8.40	36.643		
1,700.0	1,605.7	1,656.8	1,647.7	9.6	4.5	177.54	45.9	113.0	342.3	333.4	8.96	38.198		
1,800.0	1,694.5	1,750.6	1,740.8	10.6	4.8	177.92	52.2	122.6	377.0	367.4	9.53	39.543		
1,900.0	1,783.3	1,844.4	1,833.9	11.5	5.1	178.23	58.6	132.3	411.6	401.5	10.11	40.717		
2,000.0	1,872.2	1,938.2	1,926.9	12.4	5.4	178.50	64.9	141.9	446.3	435.6	10.69	41.748		
2,100.0	1,961.0	2,031.9	2,020.0	13.4	5.7	178.72	71.2	151.6	480.9	469.6	11.27	42.661		
2,200.0	2,049.9	2,125.7	2,113.1	14.3	6.0	178.92	77.5	161.2	515.6	503.7	11.86	43.474		
2,300.0	2,138.7	2,219.5	2,206.2	15.2	6.3	179.09	83.8	170.8	550.2	537.8	12.45	44.202		
2,400.0	2,227.5	2,313.3	2,299.2	16.2	6.6	179.24	90.1	180.5	584.9	571.9	13.04	44.858		
2,500.0	2,316.4	2,407.1	2,392.3	17.1	6.9	179.38	96.5	190.1	619.6	606.0	13.63	45.453		
2,600.0	2,405.2	2,500.9	2,485.4	18.0	7.2	179.50	102.8	199.8	654.3	640.0	14.23	45.994		
2,700.0	2,494.0	2,594.7	2,578.5	19.0	7.5	179.60	109.1	209.4	688.9	674.1	14.82	46.488		
2,800.0	2,582.9	2,688.5	2,671.5	19.9	7.8	179.70	115.4	219.0	723.6	708.2	15.42	46.942		
2,900.0	2,671.7	2,782.2	2,764.6	20.8	8.1	179.79	121.7	228.7	758.3	742.3	16.01	47.361		
3,000.0	2,760.5	2,876.0	2,857.7	21.8	8.4	179.87	128.0	238.3	793.0	776.4	16.61	47.748		
3,100.0	2,849.4	2,969.8	2,950.8	22.7	8.7	179.94	134.3	247.9	827.7	810.5	17.20	48.108		
3,200.0	2,938.2	3,063.6	3,043.8	23.6	9.0	-179.99	140.7	257.6	862.4	844.6	17.80	48.443		
3,300.0	3,027.1	3,157.4	3,136.9	24.6	9.3	-179.92	147.0	267.2	897.1	878.7	18.40	48.756		
3,400.0	3,115.9	3,251.2	3,230.0	25.5	9.6	-179.87	153.3	276.9	931.7	912.7	19.00	49.049		
3,500.0	3,204.7	3,345.0	3,323.1	26.5	9.9	-179.81	159.6	286.5	966.4	946.8	19.59	49.324		

# Anticollision Report

<b>Company:</b>	Coachman Energy Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well Federal 6/7-13-22
<b>Project:</b>	Garfield County, CO	<b>TVD Reference:</b>	DD @ 7073.0usft
<b>Reference Site:</b>	S22-T6S-R91W	<b>MD Reference:</b>	DD @ 7073.0usft
<b>Site Error:</b>	0.0usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Federal 6/7-13-22	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S22-T6S-R91W - Federal 2/3-16-22 - 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 (°)	Offset Wellbore Centre		Distance		Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.0	0.0	0.0	0.0	0.0	0.0	-165.33	-52.8	-13.8	54.6					
100.0	100.0	100.0	100.0	0.1	0.1	-165.33	-52.8	-13.8	54.6	54.4	0.17	328.262		
200.0	200.0	200.0	200.0	0.3	0.3	-165.33	-52.8	-13.8	54.6	54.0	0.62	88.655		
250.0	250.0	250.0	250.0	0.4	0.4	-165.33	-52.8	-13.8	54.6	53.8	0.84	64.950	CC, ES	
300.0	300.0	300.0	300.0	0.5	0.5	133.76	-52.8	-13.8	55.0	54.0	1.07	51.377		
400.0	399.8	400.5	400.4	0.8	0.7	135.75	-52.8	-12.1	58.3	56.7	1.56	37.419		
500.0	499.3	500.9	500.7	1.0	1.0	137.67	-52.9	-6.8	64.3	62.2	2.08	30.869		
600.0	598.0	601.3	600.7	1.3	1.2	139.29	-52.9	2.0	73.1	70.4	2.66	27.445		
700.0	695.8	700.5	699.4	1.7	1.5	141.56	-53.0	12.5	85.3	82.0	3.30	25.856		
800.0	792.4	798.9	797.3	2.2	1.7	144.90	-53.1	22.9	101.9	97.9	3.98	25.612	SF	
900.0	887.5	896.3	894.1	2.8	2.0	148.49	-53.1	33.2	123.1	118.5	4.68	26.338		
1,000.0	980.9	992.5	989.7	3.4	2.3	151.86	-53.2	43.3	149.2	143.9	5.37	27.767		
1,100.0	1,072.2	1,087.1	1,083.8	4.2	2.6	154.81	-53.3	53.3	180.3	174.2	6.07	29.704		
1,161.0	1,126.9	1,143.9	1,140.4	4.7	2.7	156.38	-53.3	59.3	201.7	195.2	6.49	31.065		
1,200.0	1,161.5	1,180.0	1,176.2	5.1	2.8	157.45	-53.3	63.1	216.0	209.2	6.73	32.102		
1,300.0	1,250.3	1,272.6	1,268.3	6.0	3.1	159.62	-53.4	72.9	252.8	245.5	7.33	34.475		
1,400.0	1,339.2	1,365.2	1,360.3	6.9	3.4	161.25	-53.5	82.7	290.0	282.0	7.94	36.497		
1,500.0	1,428.0	1,457.7	1,452.4	7.8	3.7	162.50	-53.5	92.4	327.2	318.7	8.56	38.234		
1,600.0	1,516.8	1,550.3	1,544.5	8.7	3.9	163.50	-53.6	102.2	364.6	355.4	9.18	39.731		
1,700.0	1,605.7	1,642.9	1,636.5	9.6	4.2	164.32	-53.7	112.0	402.1	392.3	9.80	41.031		
1,800.0	1,694.5	1,735.5	1,728.6	10.6	4.5	165.00	-53.7	121.8	439.6	429.2	10.43	42.166		
1,900.0	1,783.3	1,828.1	1,820.7	11.5	4.8	165.57	-53.8	131.5	477.2	466.1	11.05	43.165		
2,000.0	1,872.2	1,920.7	1,912.7	12.4	5.0	166.05	-53.9	141.3	514.8	503.1	11.69	44.049		
2,100.0	1,961.0	2,013.2	2,004.8	13.4	5.3	166.47	-53.9	151.1	552.4	540.1	12.32	44.836		
2,200.0	2,049.9	2,105.8	2,096.8	14.3	5.6	166.84	-54.0	160.9	590.0	577.1	12.96	45.542		
2,300.0	2,138.7	2,198.4	2,188.9	15.2	5.9	167.16	-54.1	170.7	627.7	614.1	13.59	46.177		
2,400.0	2,227.5	2,291.0	2,281.0	16.2	6.1	167.45	-54.1	180.4	665.4	651.1	14.23	46.753		
2,500.0	2,316.4	2,383.6	2,373.0	17.1	6.4	167.71	-54.2	190.2	703.1	688.2	14.87	47.276		
2,600.0	2,405.2	2,476.1	2,465.1	18.0	6.7	167.94	-54.3	200.0	740.8	725.3	15.51	47.755		
2,700.0	2,494.0	2,568.7	2,557.2	19.0	7.0	168.14	-54.3	209.8	778.5	762.3	16.15	48.194		
2,800.0	2,582.9	2,661.3	2,649.2	19.9	7.2	168.33	-54.4	219.5	816.2	799.4	16.79	48.599		
2,900.0	2,671.7	2,753.9	2,741.3	20.8	7.5	168.50	-54.5	229.3	853.9	836.5	17.44	48.973		
3,000.0	2,760.5	2,846.5	2,833.4	21.8	7.8	168.66	-54.5	239.1	891.7	873.6	18.08	49.321		
3,100.0	2,849.4	2,939.0	2,925.4	22.7	8.1	168.81	-54.6	248.9	929.4	910.7	18.72	49.644		
3,200.0	2,938.2	3,031.6	3,017.5	23.6	8.3	168.94	-54.7	258.6	967.1	947.8	19.36	49.946		

# Anticollision Report

<b>Company:</b>	Coachman Energy Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well Federal 6/7-13-22
<b>Project:</b>	Garfield County, CO	<b>TVD Reference:</b>	DD @ 7073.0usft
<b>Reference Site:</b>	S22-T6S-R91W	<b>MD Reference:</b>	DD @ 7073.0usft
<b>Site Error:</b>	0.0usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Federal 6/7-13-22	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S22-T6S-R91W - Federal 6/7-14-22 - 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	178.92	-14.9	0.3	14.9					
100.0	100.0	100.0	100.0	0.1	0.1	178.92	-14.9	0.3	14.9	14.8	0.17	89.809		
200.0	200.0	200.0	200.0	0.3	0.3	178.92	-14.9	0.3	14.9	14.3	0.62	24.255		
250.0	250.0	250.1	250.1	0.4	0.4	176.50	-14.7	0.9	14.7	13.9	0.84	17.543		
300.0	300.0	300.2	300.1	0.5	0.5	109.99	-14.0	2.7	14.5	13.4	1.06	13.683		
313.0	312.9	313.2	313.1	0.6	0.6	108.61	-13.8	3.4	14.5	13.4	1.12	12.924 CC, ES		
400.0	399.8	400.2	399.9	0.8	0.8	99.26	-11.3	10.1	15.0	13.4	1.52	9.825		
500.0	499.3	500.1	498.9	1.0	1.1	89.69	-6.8	22.4	16.7	14.6	2.06	8.082		
600.0	598.0	599.9	596.9	1.3	1.4	82.52	-0.5	39.4	19.5	16.8	2.72	7.166		
700.0	695.8	699.4	693.8	1.7	1.9	77.77	7.5	61.2	23.3	19.8	3.52	6.615		
800.0	792.4	798.8	789.1	2.2	2.4	74.88	17.2	87.7	27.8	23.4	4.46	6.233		
900.0	887.5	898.0	882.6	2.8	3.0	73.27	28.7	118.7	33.1	27.5	5.58	5.935		
1,000.0	980.9	997.1	974.1	3.4	3.7	72.50	41.7	154.1	39.0	32.2	6.87	5.681		
1,100.0	1,072.2	1,096.5	1,064.3	4.2	4.6	73.27	56.2	193.4	45.3	36.9	8.38	5.399		
1,161.0	1,126.9	1,157.4	1,119.4	4.7	5.1	76.25	65.1	217.7	48.5	39.0	9.46	5.128		
1,200.0	1,161.5	1,196.2	1,154.6	5.1	5.4	78.70	70.8	233.2	50.5	40.3	10.19	4.959		
1,300.0	1,250.3	1,296.0	1,244.8	6.0	6.3	84.14	85.5	273.0	56.0	44.0	12.05	4.648		
1,400.0	1,339.2	1,395.7	1,335.1	6.9	7.1	88.57	100.1	312.8	62.0	48.1	13.90	4.457		
1,500.0	1,428.0	1,495.4	1,425.3	7.8	8.0	92.21	114.8	352.6	68.2	52.5	15.72	4.339		
1,600.0	1,516.8	1,595.1	1,515.6	8.7	8.8	95.23	129.4	392.4	74.7	57.2	17.51	4.265		
1,700.0	1,605.7	1,694.8	1,605.9	9.6	9.7	97.77	144.1	432.2	81.3	62.0	19.27	4.219		
1,800.0	1,694.5	1,794.6	1,696.1	10.6	10.6	99.91	158.7	472.0	88.1	67.1	21.02	4.192		
1,900.0	1,783.3	1,894.3	1,786.4	11.5	11.4	101.75	173.4	511.8	95.0	72.2	22.74	4.177		
2,000.0	1,872.2	1,994.0	1,876.6	12.4	12.3	103.34	188.0	551.6	101.9	77.5	24.45	4.170		
2,100.0	1,961.0	2,093.7	1,966.9	13.4	13.2	104.73	202.7	591.4	109.0	82.8	26.15	4.168		
2,200.0	2,049.9	2,193.4	2,057.1	14.3	14.0	105.95	217.3	631.1	116.1	88.2	27.83	4.170		
2,300.0	2,138.7	2,293.2	2,147.4	15.2	14.9	107.02	232.0	670.9	123.2	93.7	29.51	4.175		
2,400.0	2,227.5	2,392.9	2,237.6	16.2	15.8	107.98	246.6	710.7	130.4	99.2	31.18	4.182		
2,500.0	2,316.4	2,492.6	2,327.9	17.1	16.6	108.84	261.3	750.5	137.6	104.8	32.84	4.189		
2,600.0	2,405.2	2,592.3	2,418.1	18.0	17.5	109.61	275.9	790.3	144.8	110.3	34.50	4.198		
2,700.0	2,494.0	2,692.0	2,508.4	19.0	18.4	110.31	290.6	830.1	152.1	115.9	36.16	4.207		
2,800.0	2,582.9	2,791.8	2,598.6	19.9	19.3	110.95	305.3	869.9	159.4	121.6	37.81	4.216		
2,900.0	2,671.7	2,891.5	2,688.9	20.8	20.1	111.53	319.9	909.7	166.7	127.2	39.45	4.225		
3,000.0	2,760.5	2,991.2	2,779.2	21.8	21.0	112.06	334.6	949.5	174.0	132.9	41.09	4.234		
3,100.0	2,849.4	3,090.9	2,869.4	22.7	21.9	112.55	349.2	989.3	181.3	138.6	42.73	4.243		
3,200.0	2,938.2	3,190.6	2,959.7	23.6	22.7	113.00	363.9	1,029.1	188.7	144.3	44.37	4.252		
3,300.0	3,027.1	3,290.4	3,049.9	24.6	23.6	113.41	378.5	1,068.9	196.0	150.0	46.01	4.260		
3,400.0	3,115.9	3,390.1	3,140.2	25.5	24.5	113.80	393.2	1,108.7	203.4	155.7	47.64	4.269		
3,500.0	3,204.7	3,489.8	3,230.4	26.5	25.4	114.16	407.8	1,148.5	210.7	161.5	49.27	4.277		
3,600.0	3,293.6	3,589.5	3,320.7	27.4	26.2	114.50	422.5	1,188.3	218.1	167.2	50.90	4.285		
3,700.0	3,382.4	3,689.2	3,410.9	28.3	27.1	114.81	437.1	1,228.1	225.5	173.0	52.53	4.293		
3,800.0	3,471.2	3,789.0	3,501.2	29.3	28.0	115.10	451.8	1,267.9	232.9	178.7	54.16	4.300		
3,900.0	3,560.1	3,888.7	3,591.4	30.2	28.9	115.38	466.4	1,307.7	240.3	184.5	55.79	4.307		
4,000.0	3,648.9	3,988.4	3,681.7	31.1	29.7	115.64	481.1	1,347.5	247.7	190.3	57.41	4.314		
4,100.0	3,737.8	4,088.1	3,771.9	32.1	30.6	115.88	495.7	1,387.2	255.1	196.1	59.04	4.321		
4,200.0	3,826.6	4,187.8	3,862.2	33.0	31.5	116.11	510.4	1,427.0	262.5	201.8	60.66	4.327		
4,300.0	3,915.4	4,287.6	3,952.5	33.9	32.3	116.33	525.0	1,466.8	269.9	207.6	62.29	4.333		
4,400.0	4,004.3	4,387.3	4,042.7	34.9	33.2	116.53	539.7	1,506.6	277.3	213.4	63.91	4.339		
4,500.0	4,093.1	4,487.0	4,133.0	35.8	34.1	116.73	554.3	1,546.4	284.7	219.2	65.53	4.345		
4,600.0	4,181.9	4,586.7	4,223.2	36.8	35.0	116.91	569.0	1,586.2	292.2	225.0	67.16	4.351		
4,657.6	4,233.1	4,644.2	4,275.2	37.3	35.5	117.02	577.4	1,609.1	296.4	228.4	68.09	4.354		
4,700.0	4,271.0	4,685.6	4,312.7	37.7	35.8	117.10	583.5	1,625.6	299.4	230.7	68.74	4.356		

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

# Anticollision Report

<b>Company:</b>	Coachman Energy Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well Federal 6/7-13-22
<b>Project:</b>	Garfield County, CO	<b>TVD Reference:</b>	DD @ 7073.0usft
<b>Reference Site:</b>	S22-T6S-R91W	<b>MD Reference:</b>	DD @ 7073.0usft
<b>Site Error:</b>	0.0usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Federal 6/7-13-22	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S22-T6S-R91W - Federal 6/7-14-22 - 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			
4,800.0	4,361.9	4,780.4	4,399.8	38.3	36.4	117.23	596.4	1,660.7	305.7	235.8	69.96	4.370		
4,900.0	4,454.9	4,875.1	4,488.6	38.9	37.0	117.33	607.8	1,691.7	311.4	240.3	71.03	4.383		
5,000.0	4,549.7	4,969.8	4,578.9	39.5	37.5	117.43	617.7	1,718.6	316.2	244.2	71.95	4.394		
5,100.0	4,646.0	5,064.5	4,670.5	39.9	37.9	117.50	626.0	1,741.1	320.3	247.6	72.73	4.404		
5,200.0	4,743.6	5,159.2	4,763.1	40.3	38.2	117.56	632.8	1,759.4	323.6	250.2	73.35	4.412		
5,300.0	4,842.2	5,253.8	4,856.5	40.6	38.5	117.61	637.9	1,773.4	326.1	252.3	73.82	4.417		
5,400.0	4,941.6	5,348.5	4,950.6	40.8	38.6	117.64	641.4	1,783.0	327.8	253.7	74.16	4.421		
5,500.0	5,041.4	5,443.1	5,045.0	40.9	38.8	117.66	643.4	1,788.2	328.8	254.4	74.35	4.422		
5,568.7	5,110.0	5,508.0	5,110.0	41.0	38.8	179.06	643.7	1,789.2	329.0	254.6	74.41	4.421		
5,600.0	5,141.3	5,539.4	5,141.3	41.0	38.9	179.06	643.7	1,789.2	329.0	254.5	74.45	4.419		
5,700.0	5,241.3	5,639.4	5,241.3	41.1	38.9	179.06	643.7	1,789.2	329.0	254.4	74.58	4.411		
5,800.0	5,341.3	5,739.4	5,341.3	41.1	39.0	179.06	643.7	1,789.2	329.0	254.3	74.71	4.403		
5,900.0	5,441.3	5,839.4	5,441.3	41.2	39.0	179.06	643.7	1,789.2	329.0	254.1	74.85	4.395		
6,000.0	5,541.3	5,939.4	5,541.3	41.2	39.1	179.06	643.7	1,789.2	329.0	254.0	74.99	4.387		
6,100.0	5,641.3	6,039.4	5,641.3	41.3	39.2	179.06	643.7	1,789.2	329.0	253.8	75.13	4.379		
6,200.0	5,741.3	6,139.4	5,741.3	41.4	39.2	179.06	643.7	1,789.2	329.0	253.7	75.28	4.370		
6,300.0	5,841.3	6,239.4	5,841.3	41.4	39.3	179.06	643.7	1,789.2	329.0	253.6	75.42	4.362		
6,400.0	5,941.3	6,339.4	5,941.3	41.5	39.4	179.06	643.7	1,789.2	329.0	253.4	75.57	4.353		
6,500.0	6,041.3	6,439.4	6,041.3	41.6	39.5	179.06	643.7	1,789.2	329.0	253.3	75.73	4.344		
6,600.0	6,141.3	6,539.4	6,141.3	41.6	39.5	179.06	643.7	1,789.2	329.0	253.1	75.88	4.335		
6,700.0	6,241.3	6,639.4	6,241.3	41.7	39.6	179.06	643.7	1,789.2	329.0	252.9	76.04	4.327		
6,800.0	6,341.3	6,739.4	6,341.3	41.8	39.7	179.06	643.7	1,789.2	329.0	252.8	76.20	4.318		
6,900.0	6,441.3	6,839.4	6,441.3	41.9	39.8	179.06	643.7	1,789.2	329.0	252.6	76.36	4.308		
7,000.0	6,541.3	6,939.4	6,541.3	41.9	39.8	179.06	643.7	1,789.2	329.0	252.5	76.52	4.299		
7,100.0	6,641.3	7,039.4	6,641.3	42.0	39.9	179.06	643.7	1,789.2	329.0	252.3	76.69	4.290		
7,200.0	6,741.3	7,139.4	6,741.3	42.1	40.0	179.06	643.7	1,789.2	329.0	252.1	76.85	4.281		
7,300.0	6,841.3	7,239.4	6,841.3	42.2	40.1	179.06	643.7	1,789.2	329.0	252.0	77.03	4.271		
7,400.0	6,941.3	7,339.4	6,941.3	42.2	40.2	179.06	643.7	1,789.2	329.0	251.8	77.20	4.261		
7,500.0	7,041.3	7,439.4	7,041.3	42.3	40.3	179.06	643.7	1,789.2	329.0	251.6	77.37	4.252		
7,600.0	7,141.3	7,539.4	7,141.3	42.4	40.3	179.06	643.7	1,789.2	329.0	251.4	77.55	4.242		
7,700.0	7,241.3	7,639.4	7,241.3	42.5	40.4	179.06	643.7	1,789.2	329.0	251.3	77.73	4.232		
7,800.0	7,341.3	7,739.4	7,341.3	42.6	40.5	179.06	643.7	1,789.2	329.0	251.1	77.91	4.223		
7,900.0	7,441.3	7,839.4	7,441.3	42.6	40.6	179.06	643.7	1,789.2	329.0	250.9	78.09	4.213		
8,000.0	7,541.3	7,939.4	7,541.3	42.7	40.7	179.06	643.7	1,789.2	329.0	250.7	78.28	4.203		
8,100.0	7,641.3	8,039.4	7,641.3	42.8	40.8	179.06	643.7	1,789.2	329.0	250.5	78.47	4.193		
8,200.0	7,741.3	8,139.4	7,741.3	42.9	40.9	179.06	643.7	1,789.2	329.0	250.3	78.66	4.182		
8,300.0	7,841.3	8,239.4	7,841.3	43.0	41.0	179.06	643.7	1,789.2	329.0	250.1	78.85	4.172		
8,400.0	7,941.3	8,339.4	7,941.3	43.1	41.1	179.06	643.7	1,789.2	329.0	249.9	79.04	4.162		
8,500.0	8,041.3	8,439.4	8,041.3	43.2	41.1	179.06	643.7	1,789.2	329.0	249.7	79.24	4.152		
8,533.7	8,075.0	8,473.0	8,075.0	43.2	41.2	179.06	643.7	1,789.2	329.0	249.7	79.31	4.148 SF		

# Anticollision Report

<b>Company:</b>	Coachman Energy Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well Federal 6/7-13-22
<b>Project:</b>	Garfield County, CO	<b>TVD Reference:</b>	DD @ 7073.0usft
<b>Reference Site:</b>	S22-T6S-R91W	<b>MD Reference:</b>	DD @ 7073.0usft
<b>Site Error:</b>	0.0usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Federal 6/7-13-22	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S22-T6S-R91W - Federal 6/7-15-22 - 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	178.92	-29.9	0.6	29.9					
100.0	100.0	100.0	100.0	0.1	0.1	178.92	-29.9	0.6	29.9	29.7	0.17	179.619		
200.0	200.0	200.0	200.0	0.3	0.3	178.92	-29.9	0.6	29.9	29.3	0.62	48.510		
250.0	250.0	250.0	250.0	0.4	0.4	178.92	-29.9	0.6	29.9	29.0	0.84	35.540	CC	
300.0	300.0	300.1	300.1	0.5	0.5	117.39	-29.7	1.2	30.1	29.0	1.06	28.324	ES	
400.0	399.8	400.4	400.2	0.8	0.8	116.39	-28.8	6.4	31.6	30.1	1.52	20.740		
500.0	499.3	500.6	499.8	1.0	1.0	114.66	-26.8	16.7	34.7	32.6	2.05	16.908		
600.0	598.0	600.7	598.7	1.3	1.3	112.57	-23.8	32.1	39.3	36.7	2.68	14.671		
700.0	695.8	700.6	696.4	1.7	1.7	110.42	-19.9	52.5	45.6	42.1	3.45	13.203		
800.0	792.4	800.4	792.8	2.2	2.2	108.43	-15.0	77.9	53.4	49.0	4.39	12.159		
900.0	887.5	900.0	887.5	2.8	2.8	106.66	-9.2	108.1	62.8	57.3	5.52	11.378		
1,000.0	980.9	999.3	980.2	3.4	3.5	105.14	-2.5	143.1	73.7	66.9	6.84	10.771		
1,100.0	1,072.2	1,098.4	1,071.0	4.2	4.2	104.06	5.0	182.3	86.1	77.8	8.36	10.298		
1,161.0	1,126.9	1,158.9	1,126.1	4.7	4.7	104.62	9.8	206.8	94.4	85.0	9.35	10.089		
1,200.0	1,161.5	1,197.5	1,161.2	5.1	5.0	105.41	12.7	222.4	99.8	89.8	9.99	9.986		
1,300.0	1,250.3	1,296.4	1,251.3	6.0	5.9	107.09	20.4	262.5	113.8	102.2	11.65	9.767		
1,400.0	1,339.2	1,395.4	1,341.5	6.9	6.7	108.41	28.1	302.6	127.9	114.6	13.32	9.602		
1,500.0	1,428.0	1,494.4	1,431.7	7.8	7.5	109.46	35.8	342.6	142.0	127.0	14.99	9.475		
1,600.0	1,516.8	1,593.3	1,521.8	8.7	8.4	110.32	43.6	382.7	156.2	139.5	16.66	9.374		
1,700.0	1,605.7	1,692.3	1,612.0	9.6	9.2	111.04	51.3	422.8	170.4	152.1	18.33	9.294		
1,800.0	1,694.5	1,791.3	1,702.1	10.6	10.0	111.65	59.0	462.9	184.6	164.6	20.01	9.227		
1,900.0	1,783.3	1,890.2	1,792.3	11.5	10.9	112.17	66.7	503.0	198.8	177.2	21.68	9.172		
2,000.0	1,872.2	1,989.2	1,882.4	12.4	11.7	112.62	74.4	543.0	213.1	189.7	23.35	9.125		
2,100.0	1,961.0	2,088.2	1,972.6	13.4	12.6	113.02	82.1	583.1	227.4	202.3	25.02	9.086		
2,200.0	2,049.9	2,187.1	2,062.8	14.3	13.4	113.37	89.8	623.2	241.6	214.9	26.70	9.051		
2,300.0	2,138.7	2,286.1	2,152.9	15.2	14.2	113.68	97.5	663.3	255.9	227.5	28.37	9.021		
2,400.0	2,227.5	2,385.1	2,243.1	16.2	15.1	113.95	105.2	703.4	270.2	240.2	30.04	8.995		
2,500.0	2,316.4	2,484.0	2,333.2	17.1	15.9	114.20	112.9	743.4	284.5	252.8	31.71	8.971		
2,600.0	2,405.2	2,583.0	2,423.4	18.0	16.8	114.43	120.6	783.5	298.8	265.4	33.38	8.951		
2,700.0	2,494.0	2,682.0	2,513.6	19.0	17.6	114.63	128.3	823.6	313.1	278.0	35.05	8.932		
2,800.0	2,582.9	2,780.9	2,603.7	19.9	18.5	114.82	136.0	863.7	327.4	290.7	36.72	8.915		
2,900.0	2,671.7	2,879.9	2,693.9	20.8	19.3	114.99	143.7	903.8	341.7	303.3	38.39	8.900		
3,000.0	2,760.5	2,978.9	2,784.0	21.8	20.2	115.15	151.4	943.8	356.0	316.0	40.06	8.887		
3,100.0	2,849.4	3,077.8	2,874.2	22.7	21.0	115.29	159.1	983.9	370.3	328.6	41.73	8.874		
3,200.0	2,938.2	3,176.8	2,964.3	23.6	21.8	115.43	166.8	1,024.0	384.7	341.3	43.40	8.863		
3,300.0	3,027.1	3,275.8	3,054.5	24.6	22.7	115.55	174.5	1,064.1	399.0	353.9	45.07	8.852		
3,400.0	3,115.9	3,374.7	3,144.7	25.5	23.5	115.67	182.2	1,104.2	413.3	366.6	46.74	8.843		
3,500.0	3,204.7	3,473.7	3,234.8	26.5	24.4	115.78	189.9	1,144.2	427.6	379.2	48.41	8.834		
3,600.0	3,293.6	3,572.7	3,325.0	27.4	25.2	115.88	197.6	1,184.3	441.9	391.9	50.07	8.826		
3,700.0	3,382.4	3,671.6	3,415.1	28.3	26.1	115.97	205.3	1,224.4	456.3	404.5	51.74	8.818		
3,800.0	3,471.2	3,770.6	3,505.3	29.3	26.9	116.06	213.0	1,264.5	470.6	417.2	53.41	8.811		
3,900.0	3,560.1	3,869.6	3,595.5	30.2	27.8	116.15	220.7	1,304.6	484.9	429.8	55.08	8.804		
4,000.0	3,648.9	3,968.5	3,685.6	31.1	28.6	116.23	228.4	1,344.6	499.2	442.5	56.75	8.797		
4,100.0	3,737.8	4,067.5	3,775.8	32.1	29.5	116.30	236.1	1,384.7	513.6	455.1	58.42	8.791		
4,200.0	3,826.6	4,166.5	3,865.9	33.0	30.3	116.37	243.8	1,424.8	527.9	467.8	60.09	8.785		
4,300.0	3,915.4	4,265.4	3,956.1	33.9	31.2	116.44	251.5	1,464.9	542.2	480.5	61.76	8.779		
4,400.0	4,004.3	4,364.4	4,046.3	34.9	32.0	116.50	259.2	1,505.0	556.6	493.1	63.43	8.774		
4,500.0	4,093.1	4,463.4	4,136.4	35.8	32.9	116.56	266.9	1,545.0	570.9	505.8	65.10	8.769		
4,600.0	4,181.9	4,562.3	4,226.6	36.8	33.7	116.62	274.6	1,585.1	585.2	518.4	66.78	8.764		
4,657.6	4,233.1	4,619.3	4,278.5	37.3	34.2	116.65	279.0	1,608.2	593.5	525.7	67.74	8.761		
4,700.0	4,271.0	4,661.3	4,316.8	37.7	34.5	116.79	282.3	1,625.2	599.3	530.9	68.42	8.760		
4,800.0	4,361.9	4,755.4	4,403.3	38.3	35.2	116.98	289.2	1,661.5	611.9	542.2	69.72	8.777		

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



# Anticollision Report

<b>Company:</b>	Coachman Energy Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well Federal 6/7-13-22
<b>Project:</b>	Garfield County, CO	<b>TVD Reference:</b>	DD @ 7073.0usft
<b>Reference Site:</b>	S22-T6S-R91W	<b>MD Reference:</b>	DD @ 7073.0usft
<b>Site Error:</b>	0.0usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Federal 6/7-13-22	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S22-T6S-R91W - Federal 6/7-15-22 - 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)			
4,900.0	4,454.9	4,849.2	4,491.3	38.9	35.7	117.15	295.4	1,693.5	623.0	552.2	70.84	8.794	
5,000.0	4,549.7	4,943.2	4,580.9	39.5	36.2	117.29	300.7	1,721.2	632.6	560.8	71.81	8.810	
5,100.0	4,646.0	5,037.3	4,671.9	39.9	36.6	117.41	305.2	1,744.6	640.7	568.1	72.62	8.822	
5,200.0	4,743.6	5,131.5	4,764.1	40.3	36.9	117.51	308.8	1,763.6	647.3	574.0	73.28	8.832	
5,300.0	4,842.2	5,225.8	4,857.2	40.6	37.2	117.58	311.6	1,778.1	652.3	578.5	73.79	8.840	
5,400.0	4,941.6	5,320.2	4,951.0	40.8	37.4	117.63	313.6	1,788.1	655.7	581.6	74.15	8.843	
5,500.0	5,041.4	5,414.5	5,045.2	40.9	37.5	117.66	314.6	1,793.6	657.6	583.2	74.36	8.843	
5,568.7	5,110.0	5,479.3	5,110.0	41.0	37.6	179.06	314.8	1,794.6	658.0	583.5	74.43	8.840	
5,600.0	5,141.3	5,510.7	5,141.3	41.0	37.6	179.06	314.8	1,794.6	658.0	583.5	74.47	8.835	
5,700.0	5,241.3	5,610.7	5,241.3	41.1	37.7	179.06	314.8	1,794.6	658.0	583.4	74.60	8.820	
5,800.0	5,341.3	5,710.7	5,341.3	41.1	37.7	179.06	314.8	1,794.6	658.0	583.2	74.74	8.804	
5,900.0	5,441.3	5,810.7	5,441.3	41.2	37.8	179.06	314.8	1,794.6	658.0	583.1	74.88	8.787	
6,000.0	5,541.3	5,910.7	5,541.3	41.2	37.9	179.06	314.8	1,794.6	658.0	582.9	75.02	8.771	
6,100.0	5,641.3	6,010.7	5,641.3	41.3	37.9	179.06	314.8	1,794.6	658.0	582.8	75.16	8.754	
6,200.0	5,741.3	6,110.7	5,741.3	41.4	38.0	179.06	314.8	1,794.6	658.0	582.7	75.30	8.738	
6,300.0	5,841.3	6,210.7	5,841.3	41.4	38.1	179.06	314.8	1,794.6	658.0	582.5	75.45	8.720	
6,400.0	5,941.3	6,310.7	5,941.3	41.5	38.2	179.06	314.8	1,794.6	658.0	582.4	75.60	8.703	
6,500.0	6,041.3	6,410.7	6,041.3	41.6	38.2	179.06	314.8	1,794.6	658.0	582.2	75.75	8.686	
6,600.0	6,141.3	6,510.7	6,141.3	41.6	38.3	179.06	314.8	1,794.6	658.0	582.1	75.91	8.668	
6,700.0	6,241.3	6,610.7	6,241.3	41.7	38.4	179.06	314.8	1,794.6	658.0	581.9	76.06	8.650	
6,800.0	6,341.3	6,710.7	6,341.3	41.8	38.5	179.06	314.8	1,794.6	658.0	581.7	76.22	8.632	
6,900.0	6,441.3	6,810.7	6,441.3	41.9	38.5	179.06	314.8	1,794.6	658.0	581.6	76.38	8.614	
7,000.0	6,541.3	6,910.7	6,541.3	41.9	38.6	179.06	314.8	1,794.6	658.0	581.4	76.55	8.596	
7,100.0	6,641.3	7,010.7	6,641.3	42.0	38.7	179.06	314.8	1,794.6	658.0	581.2	76.71	8.577	
7,200.0	6,741.3	7,110.7	6,741.3	42.1	38.8	179.06	314.8	1,794.6	658.0	581.1	76.88	8.558	
7,300.0	6,841.3	7,210.7	6,841.3	42.2	38.9	179.06	314.8	1,794.6	658.0	580.9	77.05	8.539	
7,400.0	6,941.3	7,310.7	6,941.3	42.2	39.0	179.06	314.8	1,794.6	658.0	580.7	77.22	8.520	
7,500.0	7,041.3	7,410.7	7,041.3	42.3	39.1	179.06	314.8	1,794.6	658.0	580.6	77.40	8.501	
7,600.0	7,141.3	7,510.7	7,141.3	42.4	39.1	179.06	314.8	1,794.6	658.0	580.4	77.58	8.481	
7,700.0	7,241.3	7,610.7	7,241.3	42.5	39.2	179.06	314.8	1,794.6	658.0	580.2	77.76	8.462	
7,800.0	7,341.3	7,710.7	7,341.3	42.6	39.3	179.06	314.8	1,794.6	658.0	580.0	77.94	8.442	
7,900.0	7,441.3	7,810.7	7,441.3	42.6	39.4	179.06	314.8	1,794.6	658.0	579.8	78.12	8.422	
8,000.0	7,541.3	7,910.7	7,541.3	42.7	39.5	179.06	314.8	1,794.6	658.0	579.7	78.31	8.402	
8,100.0	7,641.3	8,010.7	7,641.3	42.8	39.6	179.06	314.8	1,794.6	658.0	579.5	78.49	8.382	
8,200.0	7,741.3	8,110.7	7,741.3	42.9	39.7	179.06	314.8	1,794.6	658.0	579.3	78.68	8.362	
8,300.0	7,841.3	8,210.7	7,841.3	43.0	39.8	179.06	314.8	1,794.6	658.0	579.1	78.88	8.342	
8,400.0	7,941.3	8,310.7	7,941.3	43.1	39.9	179.06	314.8	1,794.6	658.0	578.9	79.07	8.321	
8,500.0	8,041.3	8,410.7	8,041.3	43.2	40.0	179.06	314.8	1,794.6	658.0	578.7	79.27	8.300	
8,533.7	8,075.0	8,444.3	8,075.0	43.2	40.0	179.06	314.8	1,794.6	658.0	578.6	79.33	8.293 SF	

# Anticollision Report

<b>Company:</b>	Coachman Energy Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well Federal 6/7-13-22
<b>Project:</b>	Garfield County, CO	<b>TVD Reference:</b>	DD @ 7073.0usft
<b>Reference Site:</b>	S22-T6S-R91W	<b>MD Reference:</b>	DD @ 7073.0usft
<b>Site Error:</b>	0.0usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Federal 6/7-13-22	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S22-T6S-R91W - Federal 6/7-16-22 - 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		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	178.92	-44.8	0.8	44.8					
100.0	100.0	100.0	100.0	0.1	0.1	178.92	-44.8	0.8	44.8	44.6	0.17	269.428		
200.0	200.0	200.0	200.0	0.3	0.3	178.92	-44.8	0.8	44.8	44.2	0.62	72.765 CC		
206.9	206.9	206.9	206.9	0.3	0.3	178.90	-44.8	0.9	44.8	44.2	0.65	69.307		
250.0	250.0	250.0	250.0	0.4	0.4	178.08	-44.8	1.5	44.8	44.0	0.84	53.441 ES		
300.0	300.0	299.9	299.9	0.5	0.5	114.93	-44.8	3.5	45.2	44.1	1.06	42.715		
400.0	399.8	399.7	399.3	0.8	0.8	111.16	-44.6	11.3	47.8	46.3	1.53	31.283		
500.0	499.3	499.1	497.9	1.0	1.0	107.57	-44.4	24.2	53.2	51.1	2.08	25.584		
600.0	598.0	598.2	595.3	1.3	1.4	104.54	-44.1	42.2	61.1	58.4	2.74	22.304		
700.0	695.8	696.8	691.2	1.7	1.8	102.18	-43.7	65.1	71.6	68.1	3.55	20.192		
800.0	792.4	794.8	785.3	2.2	2.4	100.44	-43.2	92.7	84.6	80.1	4.52	18.718		
900.0	887.5	892.3	877.2	2.8	3.0	99.16	-42.7	124.9	99.9	94.2	5.67	17.630		
1,000.0	980.9	989.1	966.9	3.4	3.7	98.23	-42.1	161.5	117.5	110.5	6.99	16.806		
1,100.0	1,072.2	1,087.3	1,056.8	4.2	4.5	98.57	-41.4	200.9	136.6	128.1	8.49	16.086		
1,161.0	1,126.9	1,147.0	1,111.5	4.7	5.0	99.64	-41.0	224.8	148.7	139.2	9.47	15.700		
1,200.0	1,161.5	1,185.0	1,146.3	5.1	5.3	100.67	-40.7	240.1	156.6	146.5	10.12	15.477		
1,300.0	1,250.3	1,282.7	1,235.8	6.0	6.1	102.90	-40.1	279.3	177.0	165.2	11.78	15.020		
1,400.0	1,339.2	1,380.4	1,325.3	6.9	6.9	104.66	-39.4	318.4	197.6	184.1	13.45	14.688		
1,500.0	1,428.0	1,478.1	1,414.8	7.8	7.7	106.09	-38.7	357.6	218.3	203.2	15.12	14.440		
1,600.0	1,516.8	1,575.8	1,504.3	8.7	8.5	107.27	-38.1	396.7	239.2	222.4	16.79	14.249		
1,700.0	1,605.7	1,673.5	1,593.8	9.6	9.3	108.26	-37.4	435.9	260.1	241.6	18.45	14.098		
1,800.0	1,694.5	1,771.2	1,683.3	10.6	10.1	109.11	-36.7	475.1	281.1	261.0	20.11	13.977		
1,900.0	1,783.3	1,868.9	1,772.8	11.5	10.9	109.84	-36.1	514.2	302.1	280.4	21.77	13.878		
2,000.0	1,872.2	1,966.6	1,862.3	12.4	11.8	110.47	-35.4	553.4	323.2	299.8	23.43	13.795		
2,100.0	1,961.0	2,064.3	1,951.8	13.4	12.6	111.02	-34.7	592.6	344.3	319.3	25.09	13.726		
2,200.0	2,049.9	2,162.0	2,041.3	14.3	13.4	111.52	-34.0	631.7	365.5	338.7	26.74	13.667		
2,300.0	2,138.7	2,259.7	2,130.8	15.2	14.2	111.95	-33.4	670.9	386.7	358.3	28.40	13.616		
2,400.0	2,227.5	2,357.4	2,220.3	16.2	15.0	112.34	-32.7	710.1	407.8	377.8	30.05	13.573		
2,500.0	2,316.4	2,455.1	2,309.8	17.1	15.8	112.70	-32.0	749.2	429.0	397.3	31.70	13.534		
2,600.0	2,405.2	2,552.8	2,399.3	18.0	16.6	113.02	-31.4	788.4	450.3	416.9	33.35	13.501		
2,700.0	2,494.0	2,650.4	2,488.8	19.0	17.5	113.31	-30.7	827.6	471.5	436.5	35.00	13.471		
2,800.0	2,582.9	2,748.1	2,578.3	19.9	18.3	113.58	-30.0	866.7	492.7	456.1	36.65	13.445		
2,900.0	2,671.7	2,845.8	2,667.8	20.8	19.1	113.82	-29.4	905.9	514.0	475.7	38.30	13.421		
3,000.0	2,760.5	2,943.5	2,757.3	21.8	19.9	114.04	-28.7	945.1	535.2	495.3	39.94	13.400		
3,100.0	2,849.4	3,041.2	2,846.8	22.7	20.7	114.25	-28.0	984.2	556.5	514.9	41.59	13.381		
3,200.0	2,938.2	3,138.9	2,936.3	23.6	21.6	114.44	-27.4	1,023.4	577.8	534.5	43.23	13.364		
3,300.0	3,027.1	3,236.6	3,025.8	24.6	22.4	114.62	-26.7	1,062.5	599.1	554.2	44.88	13.348		
3,400.0	3,115.9	3,334.3	3,115.3	25.5	23.2	114.79	-26.0	1,101.7	620.3	573.8	46.52	13.334		
3,500.0	3,204.7	3,432.0	3,204.8	26.5	24.0	114.94	-25.4	1,140.9	641.6	593.5	48.16	13.321		
3,600.0	3,293.6	3,529.7	3,294.3	27.4	24.8	115.09	-24.7	1,180.0	662.9	613.1	49.81	13.310		
3,700.0	3,382.4	3,627.4	3,383.8	28.3	25.6	115.23	-24.0	1,219.2	684.2	632.8	51.45	13.299		
3,800.0	3,471.2	3,725.1	3,473.3	29.3	26.5	115.35	-23.4	1,258.4	705.5	652.4	53.09	13.289		
3,900.0	3,560.1	3,822.8	3,562.8	30.2	27.3	115.47	-22.7	1,297.5	726.8	672.1	54.73	13.280		
4,000.0	3,648.9	3,920.5	3,652.3	31.1	28.1	115.59	-22.0	1,336.7	748.1	691.7	56.37	13.272		
4,100.0	3,737.8	4,018.2	3,741.8	32.1	28.9	115.70	-21.4	1,375.9	769.4	711.4	58.01	13.264		
4,200.0	3,826.6	4,115.9	3,831.3	33.0	29.7	115.80	-20.7	1,415.0	790.7	731.1	59.65	13.257		
4,300.0	3,915.4	4,213.5	3,920.8	33.9	30.5	115.89	-20.0	1,454.2	812.0	750.8	61.28	13.251		
4,400.0	4,004.3	4,311.2	4,010.2	34.9	31.4	115.99	-19.4	1,493.4	833.4	770.4	62.92	13.245		
4,500.0	4,093.1	4,408.9	4,099.7	35.8	32.2	116.07	-18.7	1,532.5	854.7	790.1	64.56	13.239		
4,600.0	4,181.9	4,506.6	4,189.2	36.8	33.0	116.15	-18.0	1,571.7	876.0	809.8	66.19	13.234		
4,657.6	4,233.1	4,562.9	4,240.8	37.3	33.5	116.20	-17.6	1,594.3	888.3	821.1	67.13	13.231		
4,700.0	4,271.0	4,604.4	4,278.8	37.7	33.8	116.45	-17.4	1,610.9	897.1	829.3	67.79	13.233		

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

# Anticollision Report

<b>Company:</b>	Coachman Energy Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well Federal 6/7-13-22
<b>Project:</b>	Garfield County, CO	<b>TVD Reference:</b>	DD @ 7073.0usft
<b>Reference Site:</b>	S22-T6S-R91W	<b>MD Reference:</b>	DD @ 7073.0usft
<b>Site Error:</b>	0.0usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Federal 6/7-13-22	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S22-T6S-R91W - Federal 6/7-16-22 - 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		
4,800.0	4,361.9	4,702.2	4,368.5	38.3	34.6	116.79	-16.7	1,649.9	916.3	847.1	69.26	13.230		
4,900.0	4,454.9	4,800.0	4,459.5	38.9	35.2	117.01	-16.1	1,685.6	933.3	862.8	70.49	13.240		
5,000.0	4,549.7	4,898.2	4,552.6	39.5	35.7	117.19	-15.6	1,716.6	948.0	876.5	71.56	13.249		
5,100.0	4,646.0	4,996.9	4,647.8	39.9	36.2	117.35	-15.1	1,743.0	960.4	888.0	72.46	13.255		
5,200.0	4,743.6	5,096.0	4,744.6	40.3	36.5	117.48	-14.7	1,764.5	970.5	897.3	73.19	13.260		
5,300.0	4,842.2	5,195.5	4,842.7	40.6	36.8	117.57	-14.5	1,780.9	978.2	904.4	73.76	13.263		
5,400.0	4,941.6	5,295.2	4,941.7	40.8	37.0	117.64	-14.3	1,792.3	983.5	909.3	74.16	13.262		
5,500.0	5,041.4	5,395.1	5,041.4	40.9	37.2	117.67	-14.2	1,798.5	986.4	912.0	74.40	13.257		
5,568.7	5,110.0	5,463.7	5,110.0	41.0	37.2	179.08	-14.1	1,799.7	986.9	912.5	74.48	13.251		
5,600.0	5,141.3	5,495.1	5,141.3	41.0	37.2	179.08	-14.1	1,799.7	986.9	912.4	74.52	13.244		
5,700.0	5,241.3	5,595.1	5,241.3	41.1	37.3	179.08	-14.1	1,799.7	986.9	912.3	74.65	13.221		
5,800.0	5,341.3	5,695.1	5,341.3	41.1	37.4	179.08	-14.1	1,799.7	986.9	912.1	74.79	13.197		
5,900.0	5,441.3	5,795.1	5,441.3	41.2	37.5	179.08	-14.1	1,799.7	986.9	912.0	74.92	13.173		
6,000.0	5,541.3	5,895.1	5,541.3	41.2	37.5	179.08	-14.1	1,799.7	986.9	911.9	75.06	13.148		
6,100.0	5,641.3	5,995.1	5,641.3	41.3	37.6	179.08	-14.1	1,799.7	986.9	911.7	75.20	13.123		
6,200.0	5,741.3	6,095.1	5,741.3	41.4	37.7	179.08	-14.1	1,799.7	986.9	911.6	75.35	13.098		
6,300.0	5,841.3	6,195.1	5,841.3	41.4	37.7	179.08	-14.1	1,799.7	986.9	911.4	75.49	13.073		
6,400.0	5,941.3	6,295.1	5,941.3	41.5	37.8	179.08	-14.1	1,799.7	986.9	911.3	75.64	13.047		
6,500.0	6,041.3	6,395.1	6,041.3	41.6	37.9	179.08	-14.1	1,799.7	986.9	911.1	75.80	13.021		
6,600.0	6,141.3	6,495.1	6,141.3	41.6	38.0	179.08	-14.1	1,799.7	986.9	911.0	75.95	12.995		
6,700.0	6,241.3	6,595.1	6,241.3	41.7	38.0	179.08	-14.1	1,799.7	986.9	910.8	76.11	12.968		
6,800.0	6,341.3	6,695.1	6,341.3	41.8	38.1	179.08	-14.1	1,799.7	986.9	910.7	76.26	12.941		
6,900.0	6,441.3	6,795.1	6,441.3	41.9	38.2	179.08	-14.1	1,799.7	986.9	910.5	76.42	12.914		
7,000.0	6,541.3	6,895.1	6,541.3	41.9	38.3	179.08	-14.1	1,799.7	986.9	910.3	76.59	12.886		
7,100.0	6,641.3	6,995.1	6,641.3	42.0	38.4	179.08	-14.1	1,799.7	986.9	910.2	76.75	12.859		
7,200.0	6,741.3	7,095.1	6,741.3	42.1	38.5	179.08	-14.1	1,799.7	986.9	910.0	76.92	12.831		
7,300.0	6,841.3	7,195.1	6,841.3	42.2	38.5	179.08	-14.1	1,799.7	986.9	909.8	77.09	12.802		
7,400.0	6,941.3	7,295.1	6,941.3	42.2	38.6	179.08	-14.1	1,799.7	986.9	909.7	77.26	12.774		
7,500.0	7,041.3	7,395.1	7,041.3	42.3	38.7	179.08	-14.1	1,799.7	986.9	909.5	77.44	12.745		
7,600.0	7,141.3	7,495.1	7,141.3	42.4	38.8	179.08	-14.1	1,799.7	986.9	909.3	77.61	12.716		
7,700.0	7,241.3	7,595.1	7,241.3	42.5	38.9	179.08	-14.1	1,799.7	986.9	909.1	77.79	12.687		
7,800.0	7,341.3	7,695.1	7,341.3	42.6	39.0	179.08	-14.1	1,799.7	986.9	909.0	77.97	12.657		
7,900.0	7,441.3	7,795.1	7,441.3	42.6	39.1	179.08	-14.1	1,799.7	986.9	908.8	78.16	12.628		
8,000.0	7,541.3	7,895.1	7,541.3	42.7	39.2	179.08	-14.1	1,799.7	986.9	908.6	78.34	12.598		
8,100.0	7,641.3	7,995.1	7,641.3	42.8	39.3	179.08	-14.1	1,799.7	986.9	908.4	78.53	12.568		
8,200.0	7,741.3	8,095.1	7,741.3	42.9	39.3	179.08	-14.1	1,799.7	986.9	908.2	78.72	12.538		
8,300.0	7,841.3	8,195.1	7,841.3	43.0	39.4	179.08	-14.1	1,799.7	986.9	908.0	78.91	12.507		
8,400.0	7,941.3	8,295.1	7,941.3	43.1	39.5	179.08	-14.1	1,799.7	986.9	907.8	79.10	12.476		
8,500.0	8,041.3	8,395.1	8,041.3	43.2	39.6	179.08	-14.1	1,799.7	986.9	907.6	79.30	12.446		
8,533.7	8,075.0	8,428.7	8,075.0	43.2	39.7	179.08	-14.1	1,799.7	986.9	907.6	79.37	12.435 SF		

## Anticollision Report

<b>Company:</b>	Coachman Energy Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well Federal 6/7-13-22
<b>Project:</b>	Garfield County, CO	<b>TVD Reference:</b>	DD @ 7073.0usft
<b>Reference Site:</b>	S22-T6S-R91W	<b>MD Reference:</b>	DD @ 7073.0usft
<b>Site Error:</b>	0.0usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Federal 6/7-13-22	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to DD @ 7073.0usft  
Offset Depths are relative to Offset Datum  
Central Meridian is -105.500000 °

Coordinates are relative to: Federal 6/7-13-22  
Coordinate System is US State Plane 1983, Colorado Northern Zone  
Grid Convergence at Surface is: -1.32°

