



Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Federal 6/7-15-22
Company:	Coachman Energy Operating Company, LLC	TVD Reference:	DD @ 7073.0usft
Project:	Garfield County, CO	MD Reference:	DD @ 7073.0usft
Site:	S22-T6S-R91W	North Reference:	True
Well:	Federal 6/7-15-22	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #1		

Project	Garfield County, CO		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	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 6/7-15-22					
Well Position	+N/-S	0.0 usft	Northing:	1,069,953.15 usft	Latitude:	39.507032
	+E/-W	0.0 usft	Easting:	2,421,873.01 usft	Longitude:	-107.548980
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	7,047.0 usft

Wellbore	DD				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2010	3/13/2015	9.67	65.73	51,926

Design	Plan #1				
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	79.12	

Plan Sections										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)	(°)	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
250.0	0.00	0.00	250.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,061.8	24.36	79.12	1,037.6	32.1	166.9	3.00	3.00	0.00	79.12	
4,667.5	24.36	79.12	4,322.4	312.6	1,627.2	0.00	0.00	0.00	0.00	
5,479.3	0.00	0.00	5,110.0	344.7	1,794.1	3.00	-3.00	0.00	180.00	6/7-15-22 TOG
8,444.3	0.00	0.00	8,075.0	344.7	1,794.1	0.00	0.00	0.00	0.00	

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Project:	Garfield County, CO	MD Reference:	DD @ 7073.0usft
Site:	S22-T6S-R91W	North Reference:	True
Well:	Federal 6/7-15-22	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100u)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	
250.0	0.00	0.00	250.0	0.0	0.0	0.0	0.00	0.00	KOP @ 250'
300.0	1.50	79.12	300.0	0.1	0.6	0.7	3.00	3.00	
400.0	4.50	79.12	399.8	1.1	5.8	5.9	3.00	3.00	
500.0	7.50	79.12	499.3	3.1	16.0	16.3	3.00	3.00	
600.0	10.50	79.12	598.0	6.0	31.4	32.0	3.00	3.00	
700.0	13.50	79.12	695.8	10.0	51.8	52.8	3.00	3.00	
800.0	16.50	79.12	792.4	14.8	77.2	78.6	3.00	3.00	
900.0	19.50	79.12	887.5	20.7	107.6	109.5	3.00	3.00	
1,000.0	22.50	79.12	980.9	27.4	142.8	145.4	3.00	3.00	
1,061.8	24.36	79.12	1,037.6	32.1	166.9	170.0	3.00	3.00	EOB; INC=24.36°
1,100.0	24.36	79.12	1,072.4	35.0	182.4	185.7	0.00	0.00	
1,200.0	24.36	79.12	1,163.5	42.8	222.9	226.9	0.00	0.00	
1,300.0	24.36	79.12	1,254.6	50.6	263.4	268.2	0.00	0.00	
1,400.0	24.36	79.12	1,345.7	58.4	303.9	309.4	0.00	0.00	
1,500.0	24.36	79.12	1,436.8	66.2	344.4	350.7	0.00	0.00	
1,600.0	24.36	79.12	1,527.9	73.9	384.9	391.9	0.00	0.00	
1,700.0	24.36	79.12	1,619.0	81.7	425.4	433.1	0.00	0.00	
1,800.0	24.36	79.12	1,710.1	89.5	465.9	474.4	0.00	0.00	
1,900.0	24.36	79.12	1,801.2	97.3	506.4	515.6	0.00	0.00	
2,000.0	24.36	79.12	1,892.3	105.1	546.9	556.9	0.00	0.00	
2,100.0	24.36	79.12	1,983.4	112.8	587.4	598.1	0.00	0.00	
2,200.0	24.36	79.12	2,074.5	120.6	627.9	639.3	0.00	0.00	
2,300.0	24.36	79.12	2,165.6	128.4	668.4	680.6	0.00	0.00	
2,400.0	24.36	79.12	2,256.7	136.2	708.8	721.8	0.00	0.00	
2,500.0	24.36	79.12	2,347.8	144.0	749.3	763.1	0.00	0.00	
2,600.0	24.36	79.12	2,438.9	151.7	789.8	804.3	0.00	0.00	
2,700.0	24.36	79.12	2,530.0	159.5	830.3	845.5	0.00	0.00	
2,800.0	24.36	79.12	2,621.1	167.3	870.8	886.8	0.00	0.00	
2,900.0	24.36	79.12	2,712.2	175.1	911.3	928.0	0.00	0.00	
3,000.0	24.36	79.12	2,803.3	182.9	951.8	969.2	0.00	0.00	
3,100.0	24.36	79.12	2,894.4	190.6	992.3	1,010.5	0.00	0.00	
3,200.0	24.36	79.12	2,985.5	198.4	1,032.8	1,051.7	0.00	0.00	
3,300.0	24.36	79.12	3,076.6	206.2	1,073.3	1,093.0	0.00	0.00	
3,400.0	24.36	79.12	3,167.7	214.0	1,113.8	1,134.2	0.00	0.00	
3,500.0	24.36	79.12	3,258.8	221.8	1,154.3	1,175.4	0.00	0.00	
3,600.0	24.36	79.12	3,349.9	229.5	1,194.8	1,216.7	0.00	0.00	
3,700.0	24.36	79.12	3,441.0	237.3	1,235.3	1,257.9	0.00	0.00	
3,800.0	24.36	79.12	3,532.1	245.1	1,275.8	1,299.2	0.00	0.00	
3,900.0	24.36	79.12	3,623.2	252.9	1,316.3	1,340.4	0.00	0.00	
4,000.0	24.36	79.12	3,714.3	260.7	1,356.8	1,381.6	0.00	0.00	
4,100.0	24.36	79.12	3,805.4	268.5	1,397.3	1,422.9	0.00	0.00	
4,200.0	24.36	79.12	3,896.5	276.2	1,437.8	1,464.1	0.00	0.00	
4,300.0	24.36	79.12	3,987.6	284.0	1,478.3	1,505.4	0.00	0.00	
4,400.0	24.36	79.12	4,078.7	291.8	1,518.8	1,546.6	0.00	0.00	
4,500.0	24.36	79.12	4,169.8	299.6	1,559.3	1,587.8	0.00	0.00	
4,600.0	24.36	79.12	4,260.9	307.4	1,599.8	1,629.1	0.00	0.00	
4,667.5	24.36	79.12	4,322.4	312.6	1,627.2	1,656.9	0.00	0.00	Start Drop -3.00
4,700.0	23.38	79.12	4,352.1	315.1	1,640.1	1,670.1	3.00	-3.00	
4,800.0	20.38	79.12	4,444.9	322.1	1,676.7	1,707.3	3.00	-3.00	

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Project:	Garfield County, CO	MD Reference:	DD @ 7073.0usft
Site:	S22-T6S-R91W	North Reference:	True
Well:	Federal 6/7-15-22	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100u)	Comments / Formations
4,900.0	17.38	79.12	4,539.5	328.2	1,708.4	1,739.7	3.00	-3.00	
5,000.0	14.38	79.12	4,635.7	333.4	1,735.3	1,767.0	3.00	-3.00	
5,006.5	14.18	79.12	4,642.0	333.7	1,736.9	1,768.6	3.00	-3.00	Williams Fork
5,100.0	11.38	79.12	4,733.2	337.6	1,757.2	1,789.3	3.00	-3.00	
5,200.0	8.38	79.12	4,831.7	340.8	1,774.0	1,806.5	3.00	-3.00	
5,300.0	5.38	79.12	4,930.9	343.1	1,785.8	1,818.5	3.00	-3.00	
5,400.0	2.38	79.12	5,030.7	344.4	1,792.4	1,825.2	3.00	-3.00	
5,479.3	0.00	0.00	5,110.0	344.7	1,794.1	1,826.9	3.00	-3.00	EOD; INC=0° - Top of Gas - 6/7-15-22 TOG
5,500.0	0.00	0.00	5,130.7	344.7	1,794.1	1,826.9	0.00	0.00	
5,600.0	0.00	0.00	5,230.7	344.7	1,794.1	1,826.9	0.00	0.00	
5,700.0	0.00	0.00	5,330.7	344.7	1,794.1	1,826.9	0.00	0.00	
5,800.0	0.00	0.00	5,430.7	344.7	1,794.1	1,826.9	0.00	0.00	
5,900.0	0.00	0.00	5,530.7	344.7	1,794.1	1,826.9	0.00	0.00	
6,000.0	0.00	0.00	5,630.7	344.7	1,794.1	1,826.9	0.00	0.00	
6,100.0	0.00	0.00	5,730.7	344.7	1,794.1	1,826.9	0.00	0.00	
6,200.0	0.00	0.00	5,830.7	344.7	1,794.1	1,826.9	0.00	0.00	
6,300.0	0.00	0.00	5,930.7	344.7	1,794.1	1,826.9	0.00	0.00	
6,400.0	0.00	0.00	6,030.7	344.7	1,794.1	1,826.9	0.00	0.00	
6,500.0	0.00	0.00	6,130.7	344.7	1,794.1	1,826.9	0.00	0.00	
6,600.0	0.00	0.00	6,230.7	344.7	1,794.1	1,826.9	0.00	0.00	
6,700.0	0.00	0.00	6,330.7	344.7	1,794.1	1,826.9	0.00	0.00	
6,800.0	0.00	0.00	6,430.7	344.7	1,794.1	1,826.9	0.00	0.00	
6,900.0	0.00	0.00	6,530.7	344.7	1,794.1	1,826.9	0.00	0.00	
7,000.0	0.00	0.00	6,630.7	344.7	1,794.1	1,826.9	0.00	0.00	
7,100.0	0.00	0.00	6,730.7	344.7	1,794.1	1,826.9	0.00	0.00	
7,200.0	0.00	0.00	6,830.7	344.7	1,794.1	1,826.9	0.00	0.00	
7,300.0	0.00	0.00	6,930.7	344.7	1,794.1	1,826.9	0.00	0.00	
7,400.0	0.00	0.00	7,030.7	344.7	1,794.1	1,826.9	0.00	0.00	
7,500.0	0.00	0.00	7,130.7	344.7	1,794.1	1,826.9	0.00	0.00	
7,600.0	0.00	0.00	7,230.7	344.7	1,794.1	1,826.9	0.00	0.00	
7,700.0	0.00	0.00	7,330.7	344.7	1,794.1	1,826.9	0.00	0.00	
7,800.0	0.00	0.00	7,430.7	344.7	1,794.1	1,826.9	0.00	0.00	
7,900.0	0.00	0.00	7,530.7	344.7	1,794.1	1,826.9	0.00	0.00	
8,000.0	0.00	0.00	7,630.7	344.7	1,794.1	1,826.9	0.00	0.00	
8,077.3	0.00	0.00	7,708.0	344.7	1,794.1	1,826.9	0.00	0.00	Cameo
8,100.0	0.00	0.00	7,730.7	344.7	1,794.1	1,826.9	0.00	0.00	
8,200.0	0.00	0.00	7,830.7	344.7	1,794.1	1,826.9	0.00	0.00	
8,300.0	0.00	0.00	7,930.7	344.7	1,794.1	1,826.9	0.00	0.00	
8,341.3	0.00	0.00	7,972.0	344.7	1,794.1	1,826.9	0.00	0.00	Rollins
8,400.0	0.00	0.00	8,030.7	344.7	1,794.1	1,826.9	0.00	0.00	
8,444.3	0.00	0.00	8,075.0	344.7	1,794.1	1,826.9	0.00	0.00	TD at 8444.3

Targets									
Target Name									
- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- Shape									
6/7-15-22 TOG	0.00	0.00	5,110.0	344.7	1,794.1	1,070,256.28	2,423,674.56	39.507978	-107.542622
- plan hits target center									
- Circle (radius 75.0)									

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Federal 6/7-15-22
Company:	Coachman Energy Operating Company, LLC	TVD Reference:	DD @ 7073.0usft
Project:	Garfield County, CO	MD Reference:	DD @ 7073.0usft
Site:	S22-T6S-R91W	North Reference:	True
Well:	Federal 6/7-15-22	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #1		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
5,006.5	4,642.0	Williams Fork				
5,479.3	5,110.0	Top of Gas				
8,077.3	7,708.0	Cameo				
8,341.3	7,972.0	Rollins				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
250.0	250.0	0.0	0.0	KOP @ 250'	
1,061.8	1,037.6	32.1	166.9	EOB; INC=24.36°	
4,667.5	4,322.4	312.6	1,627.2	Start Drop -3.00	
5,479.3	5,110.0	344.7	1,794.1	EOD; INC=0°	
8,444.3	8,075.0	344.7	1,794.1	TD at 8444.3	

Coachman Energy Operating Company, LLC

Garfield County, CO

S22-T6S-R91W

Federal 6/7-15-22

DD

Plan #1

Anticollision Report

16 March, 2015

Anticollision Report

Company:	Coachman Energy Operating Company, LLC	Local Co-ordinate Reference:	Well Federal 6/7-15-22
Project:	Garfield County, CO	TVD Reference:	DD @ 7073.0usft
Reference Site:	S22-T6S-R91W	MD Reference:	DD @ 7073.0usft
Site Error:	0.0usft	North Reference:	True
Reference Well:	Federal 6/7-15-22	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Reference	Plan #1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	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	8,444.3	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
Offet Well - Wellbore - Design						
S22-T6S-R91W						
Federal 2/3-11-22 - DD - Plan #1	200.0	200.0	54.5	53.9	88.529	CC, ES
Federal 2/3-11-22 - DD - Plan #1	3,000.0	2,785.5	998.5	967.0	31.726	SF
Federal 2/3-12-22 - DD - Plan #1	250.0	250.0	40.4	39.5	48.031	CC, ES
Federal 2/3-12-22 - DD - Plan #1	600.0	592.0	70.6	68.0	26.666	SF
Federal 2/3-13-22 - DD - Plan #1	250.0	250.0	27.1	26.3	32.242	CC, ES
Federal 2/3-13-22 - DD - Plan #1	500.0	498.2	39.2	37.1	19.068	SF
Federal 2/3-14-22 - DD - Plan #1	250.0	250.0	16.9	16.0	20.092	CC, ES
Federal 2/3-14-22 - DD - Plan #1	400.0	400.0	21.7	20.1	13.720	SF
Federal 2/3-15-22 - DD - Plan #1	250.0	250.0	16.8	16.0	19.983	CC, ES
Federal 2/3-15-22 - DD - Plan #1	600.0	602.1	27.6	24.9	10.250	SF
Federal 2/3-16-22 - DD - Plan #1	250.0	250.0	27.1	26.2	32.224	CC, ES
Federal 2/3-16-22 - DD - Plan #1	600.0	601.7	41.9	39.2	15.757	SF
Federal 6/7-13-22 - DD - Plan #1	250.0	250.0	29.9	29.0	35.540	CC
Federal 6/7-13-22 - DD - Plan #1	300.0	299.6	30.1	29.0	28.434	ES
Federal 6/7-13-22 - DD - Plan #1	8,444.3	8,533.7	658.0	578.6	8.291	SF
Federal 6/7-14-22 - DD - Plan #1	200.0	200.0	14.9	14.3	24.255	CC, ES
Federal 6/7-14-22 - DD - Plan #1	8,444.3	8,473.0	329.0	249.7	4.151	SF
Federal 6/7-16-22 - DD - Plan #1	200.0	200.0	14.9	14.3	24.255	CC
Federal 6/7-16-22 - DD - Plan #1	250.0	250.0	15.0	14.1	17.816	ES
Federal 6/7-16-22 - DD - Plan #1	8,444.3	8,428.7	329.0	249.7	4.148	SF

Anticollision Report

Company:	Coachman Energy Operating Company, LLC	Local Co-ordinate Reference:	Well Federal 6/7-15-22
Project:	Garfield County, CO	TVD Reference:	DD @ 7073.0usft
Reference Site:	S22-T6S-R91W	MD Reference:	DD @ 7073.0usft
Site Error:	0.0usft	North Reference:	True
Reference Well:	Federal 6/7-15-22	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design 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	-17.16	52.1	-16.1	54.5					
100.0	100.0	100.0	100.0	0.1	0.1	-17.16	52.1	-16.1	54.5	0.17	327.797			
200.0	200.0	200.0	200.0	0.3	0.3	-17.16	52.1	-16.1	54.5	0.62	88.529 CC, ES			
250.0	250.0	248.8	248.8	0.4	0.4	-16.80	52.7	-15.9	55.1	0.84	65.678			
300.0	300.0	297.6	297.6	0.5	0.5	-95.49	54.5	-15.4	56.7	1.06	53.410			
400.0	399.8	394.8	394.4	0.8	0.8	-96.25	61.6	-13.3	63.7	1.53	41.573			
500.0	499.3	491.1	490.0	1.0	1.0	-98.41	73.4	-9.9	75.5	2.06	36.710			
600.0	598.0	586.3	583.7	1.3	1.4	-101.02	89.5	-5.3	92.3	2.66	34.644			
700.0	695.8	679.9	674.9	1.7	1.8	-103.45	109.7	0.6	114.1	3.37	33.816			
800.0	792.4	771.7	763.2	2.2	2.2	-105.43	133.7	7.5	140.9	4.20	33.509			
900.0	887.5	861.3	848.1	2.8	2.7	-106.93	161.0	15.4	172.4	5.16	33.404			
1,000.0	980.9	951.3	932.3	3.5	3.3	-108.14	191.8	24.3	208.4	6.24	33.379			
1,061.8	1,037.6	1,008.3	985.3	3.9	3.7	-109.11	211.6	30.0	231.7	6.97	33.243			
1,100.0	1,072.4	1,043.3	1,018.0	4.2	3.9	-110.13	223.8	33.6	246.4	7.43	33.156			
1,200.0	1,163.5	1,134.9	1,103.4	5.1	4.5	-112.31	255.7	42.8	285.2	8.67	32.905			
1,300.0	1,254.6	1,226.6	1,188.9	5.9	5.2	-113.97	287.6	52.0	324.3	9.91	32.725			
1,400.0	1,345.7	1,318.3	1,274.4	6.7	5.8	-115.28	319.5	61.3	363.5	11.16	32.575			
1,500.0	1,436.8	1,410.0	1,359.8	7.6	6.4	-116.33	351.5	70.5	402.9	12.42	32.450			
1,600.0	1,527.9	1,501.7	1,445.3	8.4	7.1	-117.20	383.4	79.7	442.4	13.68	32.345			
1,700.0	1,619.0	1,593.4	1,530.7	9.3	7.7	-117.92	415.3	88.9	481.9	14.94	32.256			
1,800.0	1,710.1	1,685.1	1,616.2	10.1	8.4	-118.54	447.2	98.2	521.5	16.21	32.179			
1,900.0	1,801.2	1,776.8	1,701.7	11.0	9.0	-119.07	479.1	107.4	561.1	17.47	32.113			
2,000.0	1,892.3	1,868.5	1,787.1	11.8	9.6	-119.53	511.0	116.6	600.8	18.74	32.055			
2,100.0	1,983.4	1,960.2	1,872.6	12.7	10.3	-119.93	542.9	125.9	640.5	20.01	32.005			
2,200.0	2,074.5	2,051.9	1,958.1	13.5	10.9	-120.28	574.9	135.1	680.2	21.28	31.960			
2,300.0	2,165.6	2,143.6	2,043.5	14.4	11.6	-120.60	606.8	144.3	720.0	22.56	31.919			
2,400.0	2,256.7	2,235.3	2,129.0	15.2	12.2	-120.88	638.7	153.5	759.7	23.83	31.883			
2,500.0	2,347.8	2,327.0	2,214.5	16.1	12.8	-121.14	670.6	162.8	799.5	25.10	31.851			
2,600.0	2,438.9	2,418.7	2,299.9	16.9	13.5	-121.37	702.5	172.0	839.3	26.37	31.821			
2,700.0	2,530.0	2,510.4	2,385.4	17.8	14.1	-121.58	734.4	181.2	879.1	27.65	31.794			
2,800.0	2,621.1	2,602.1	2,470.9	18.6	14.8	-121.77	766.3	190.5	918.9	28.92	31.769			
2,900.0	2,712.2	2,693.8	2,556.3	19.5	15.4	-121.94	798.3	199.7	958.7	30.20	31.747			
3,000.0	2,803.3	2,785.5	2,641.8	20.3	16.1	-122.11	830.2	208.9	998.5	31.47	31.726 SF			

Anticollision Report

Company:	Coachman Energy Operating Company, LLC	Local Co-ordinate Reference:	Well Federal 6/7-15-22
Project:	Garfield County, CO	TVD Reference:	DD @ 7073.0usft
Reference Site:	S22-T6S-R91W	MD Reference:	DD @ 7073.0usft
Site Error:	0.0usft	North Reference:	True
Reference Well:	Federal 6/7-15-22	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design 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	-23.04	37.2	-15.8	40.4					
100.0	100.0	100.0	100.0	0.1	0.1	-23.04	37.2	-15.8	40.4	40.2	0.17	242.752		
200.0	200.0	200.0	200.0	0.3	0.3	-23.04	37.2	-15.8	40.4	39.8	0.62	65.561		
250.0	250.0	250.0	250.0	0.4	0.4	-23.04	37.2	-15.8	40.4	39.5	0.84	48.031	CC, ES	
300.0	300.0	299.2	299.2	0.5	0.5	-102.42	37.8	-15.6	41.0	39.9	1.06	38.632		
400.0	399.8	397.5	397.4	0.8	0.8	-104.22	42.5	-13.8	45.9	44.4	1.52	30.149		
500.0	499.3	495.2	494.5	1.0	1.0	-106.81	51.9	-10.4	55.7	53.7	2.04	27.267		
600.0	598.0	592.0	590.2	1.3	1.3	-109.25	65.8	-5.3	70.6	68.0	2.65	26.666	SF	
700.0	695.8	687.5	683.7	1.7	1.7	-111.13	84.0	1.3	90.5	87.1	3.36	26.957		
800.0	792.4	781.4	774.6	2.2	2.1	-112.42	106.1	9.4	115.1	110.9	4.18	27.524		
900.0	887.5	875.4	864.5	2.8	2.6	-113.46	131.9	18.8	144.2	139.0	5.14	28.061		
1,000.0	980.9	970.0	954.8	3.5	3.1	-115.27	158.3	28.5	175.7	169.5	6.19	28.401		
1,061.8	1,037.6	1,027.9	1,010.1	3.9	3.4	-116.64	174.5	34.4	196.5	189.6	6.88	28.575		
1,100.0	1,072.4	1,063.5	1,044.1	4.2	3.6	-117.81	184.5	38.1	209.7	202.4	7.31	28.686		
1,200.0	1,163.5	1,156.8	1,133.1	5.1	4.2	-120.28	210.5	47.6	244.5	236.0	8.45	28.925		
1,300.0	1,254.6	1,250.1	1,222.2	5.9	4.7	-122.14	236.6	57.1	279.6	270.0	9.59	29.150		
1,400.0	1,345.7	1,343.4	1,311.3	6.7	5.2	-123.59	262.7	66.6	314.9	304.2	10.74	29.330		
1,500.0	1,436.8	1,436.7	1,400.3	7.6	5.8	-124.74	288.7	76.2	350.4	338.5	11.89	29.480		
1,600.0	1,527.9	1,530.0	1,489.4	8.4	6.3	-125.68	314.8	85.7	386.0	373.0	13.04	29.607		
1,700.0	1,619.0	1,623.2	1,578.5	9.3	6.9	-126.47	340.8	95.2	421.6	407.5	14.19	29.716		
1,800.0	1,710.1	1,716.5	1,667.5	10.1	7.4	-127.13	366.9	104.7	457.4	442.0	15.34	29.809		
1,900.0	1,801.2	1,809.8	1,756.6	11.0	8.0	-127.70	393.0	114.3	493.1	476.6	16.50	29.891		
2,000.0	1,892.3	1,903.1	1,845.7	11.8	8.5	-128.19	419.0	123.8	528.9	511.2	17.65	29.962		
2,100.0	1,983.4	1,996.4	1,934.7	12.7	9.1	-128.62	445.1	133.3	564.7	545.9	18.81	30.025		
2,200.0	2,074.5	2,089.7	2,023.8	13.5	9.6	-128.99	471.1	142.8	600.6	580.6	19.97	30.080		
2,300.0	2,165.6	2,183.0	2,112.9	14.4	10.1	-129.33	497.2	152.4	636.4	615.3	21.12	30.130		
2,400.0	2,256.7	2,276.3	2,201.9	15.2	10.7	-129.63	523.3	161.9	672.3	650.0	22.28	30.175		
2,500.0	2,347.8	2,369.5	2,291.0	16.1	11.2	-129.89	549.3	171.4	708.2	684.8	23.44	30.215		
2,600.0	2,438.9	2,462.8	2,380.1	16.9	11.8	-130.14	575.4	180.9	744.1	719.5	24.60	30.252		
2,700.0	2,530.0	2,556.1	2,469.1	17.8	12.3	-130.36	601.5	190.5	780.0	754.3	25.76	30.285		
2,800.0	2,621.1	2,649.4	2,558.2	18.6	12.9	-130.56	627.5	200.0	816.0	789.0	26.92	30.315		
2,900.0	2,712.2	2,742.7	2,647.2	19.5	13.4	-130.74	653.6	209.5	851.9	823.8	28.07	30.343		
3,000.0	2,803.3	2,836.0	2,736.3	20.3	14.0	-130.91	679.6	219.1	887.8	858.6	29.23	30.369		
3,100.0	2,894.4	2,929.3	2,825.4	21.2	14.5	-131.07	705.7	228.6	923.8	893.4	30.39	30.393		
3,200.0	2,985.5	3,022.5	2,914.4	22.0	15.1	-131.21	731.8	238.1	959.7	928.2	31.55	30.415		
3,300.0	3,076.6	3,115.8	3,003.5	22.9	15.7	-131.35	757.8	247.6	995.7	963.0	32.71	30.435		

Anticollision Report

Company:	Coachman Energy Operating Company, LLC	Local Co-ordinate Reference:	Well Federal 6/7-15-22
Project:	Garfield County, CO	TVD Reference:	DD @ 7073.0usft
Reference Site:	S22-T6S-R91W	MD Reference:	DD @ 7073.0usft
Site Error:	0.0usft	North Reference:	True
Reference Well:	Federal 6/7-15-22	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design 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	-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	162.955		
200.0	200.0	200.0	200.0	0.3	0.3	-34.93	22.2	-15.5	27.1	26.5	0.62	44.010		
250.0	250.0	250.0	250.0	0.4	0.4	-34.93	22.2	-15.5	27.1	26.3	0.84	32.242 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	-115.30	22.2	-15.5	27.4	26.3	1.06	25.736		
400.0	399.8	399.3	399.2	0.8	0.8	-119.69	24.5	-14.4	30.9	29.4	1.53	20.180		
500.0	499.3	498.2	497.9	1.0	1.0	-122.29	31.4	-11.0	39.2	37.1	2.06	19.068 SF		
600.0	598.0	596.6	595.4	1.3	1.3	-123.20	42.8	-5.3	52.1	49.4	2.65	19.665		
700.0	695.8	694.1	691.3	1.7	1.6	-123.11	58.6	2.4	69.5	66.1	3.33	20.831		
800.0	792.4	791.0	785.7	2.2	2.0	-122.82	78.1	12.1	91.1	87.0	4.13	22.032		
900.0	887.5	887.8	879.9	2.8	2.4	-124.18	98.4	22.1	115.8	110.8	5.02	23.050		
1,000.0	980.9	983.7	973.0	3.5	2.8	-126.52	118.4	32.0	143.6	137.6	5.98	24.025		
1,061.8	1,037.6	1,042.3	1,030.1	3.9	3.1	-128.17	130.7	38.0	162.5	155.9	6.59	24.663		
1,100.0	1,072.4	1,078.3	1,065.1	4.2	3.3	-129.41	138.3	41.7	174.6	167.6	6.96	25.093		
1,200.0	1,163.5	1,172.7	1,156.9	5.1	3.7	-131.97	158.0	51.5	206.6	198.7	7.93	26.062		
1,300.0	1,254.6	1,267.1	1,248.7	5.9	4.1	-133.84	177.8	61.2	238.9	230.0	8.89	26.858		
1,400.0	1,345.7	1,361.5	1,340.5	6.7	4.6	-135.27	197.5	71.0	271.4	261.5	9.87	27.506		
1,500.0	1,436.8	1,455.9	1,432.2	7.6	5.0	-136.39	217.3	80.7	303.9	293.1	10.84	28.043		
1,600.0	1,527.9	1,550.3	1,524.0	8.4	5.5	-137.30	237.0	90.5	336.6	324.8	11.81	28.493		
1,700.0	1,619.0	1,644.7	1,615.8	9.3	5.9	-138.05	256.8	100.2	369.3	356.5	12.79	28.875		
1,800.0	1,710.1	1,739.1	1,707.6	10.1	6.4	-138.67	276.6	110.0	402.1	388.3	13.77	29.202		
1,900.0	1,801.2	1,833.5	1,799.4	11.0	6.8	-139.20	296.3	119.7	434.9	420.1	14.75	29.484		
2,000.0	1,892.3	1,927.9	1,891.2	11.8	7.3	-139.66	316.1	129.4	467.7	452.0	15.73	29.731		
2,100.0	1,983.4	2,022.3	1,983.0	12.7	7.7	-140.06	335.8	139.2	500.6	483.9	16.71	29.948		
2,200.0	2,074.5	2,116.7	2,074.8	13.5	8.2	-140.40	355.6	148.9	533.4	515.7	17.70	30.140		
2,300.0	2,165.6	2,211.1	2,166.6	14.4	8.7	-140.71	375.3	158.7	566.3	547.7	18.68	30.311		
2,400.0	2,256.7	2,305.4	2,258.3	15.2	9.1	-140.99	395.1	168.4	599.2	579.6	19.67	30.465		
2,500.0	2,347.8	2,399.8	2,350.1	16.1	9.6	-141.23	414.8	178.2	632.2	611.5	20.66	30.603		
2,600.0	2,438.9	2,494.2	2,441.9	16.9	10.0	-141.45	434.6	187.9	665.1	643.4	21.64	30.728		
2,700.0	2,530.0	2,588.6	2,533.7	17.8	10.5	-141.65	454.4	197.7	698.0	675.4	22.63	30.842		
2,800.0	2,621.1	2,683.0	2,625.5	18.6	10.9	-141.83	474.1	207.4	730.9	707.3	23.62	30.946		
2,900.0	2,712.2	2,777.4	2,717.3	19.5	11.4	-142.00	493.9	217.2	763.9	739.3	24.61	31.041		
3,000.0	2,803.3	2,871.8	2,809.1	20.3	11.8	-142.15	513.6	226.9	796.8	771.2	25.60	31.129		
3,100.0	2,894.4	2,966.2	2,900.9	21.2	12.3	-142.29	533.4	236.7	829.8	803.2	26.59	31.210		
3,200.0	2,985.5	3,060.6	2,992.6	22.0	12.7	-142.42	553.1	246.4	862.8	835.2	27.58	31.285		
3,300.0	3,076.6	3,155.0	3,084.4	22.9	13.2	-142.54	572.9	256.1	895.7	867.2	28.57	31.354		
3,400.0	3,167.7	3,249.4	3,176.2	23.8	13.7	-142.66	592.6	265.9	928.7	899.1	29.56	31.419		
3,500.0	3,258.8	3,343.8	3,268.0	24.6	14.1	-142.76	612.4	275.6	961.7	931.1	30.55	31.479		
3,600.0	3,349.9	3,438.2	3,359.8	25.5	14.6	-142.86	632.2	285.4	994.6	963.1	31.54	31.535		

Anticollision Report

Company:	Coachman Energy Operating Company, LLC	Local Co-ordinate Reference:	Well Federal 6/7-15-22
Project:	Garfield County, CO	TVD Reference:	DD @ 7073.0usft
Reference Site:	S22-T6S-R91W	MD Reference:	DD @ 7073.0usft
Site Error:	0.0usft	North Reference:	True
Reference Well:	Federal 6/7-15-22	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design 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	-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	300.0	0.5	0.5	-144.84	7.3	-15.2	17.4	16.3	1.07	16.240		
400.0	399.8	400.0	400.0	0.8	0.8	-151.08	7.8	-14.8	21.7	20.1	1.58	13.720 SF		
500.0	499.3	500.2	500.0	1.0	1.0	-151.18	12.0	-11.7	29.2	27.0	2.11	13.799		
600.0	598.0	600.2	599.4	1.3	1.2	-147.61	20.4	-5.4	39.6	36.9	2.67	14.803		
700.0	695.8	699.6	697.7	1.7	1.5	-143.20	32.8	3.9	53.1	49.9	3.30	16.128		
800.0	792.4	798.1	794.6	2.2	1.9	-141.68	46.4	14.1	70.6	66.6	4.00	17.669		
900.0	887.5	895.7	890.8	2.8	2.2	-142.65	60.0	24.3	92.2	87.4	4.74	19.446		
1,000.0	980.9	992.2	985.8	3.5	2.6	-144.58	73.4	34.3	117.9	112.4	5.51	21.382		
1,061.8	1,037.6	1,051.3	1,044.0	3.9	2.8	-145.93	81.6	40.5	136.0	130.0	6.00	22.673		
1,100.0	1,072.4	1,087.5	1,079.7	4.2	2.9	-146.90	86.7	44.2	147.6	141.4	6.27	23.547		
1,200.0	1,163.5	1,182.5	1,173.3	5.1	3.3	-148.82	99.9	54.1	178.4	171.4	6.99	25.504		
1,300.0	1,254.6	1,277.5	1,266.8	5.9	3.6	-150.18	113.1	64.0	209.3	201.5	7.72	27.092		
1,400.0	1,345.7	1,372.6	1,360.4	6.7	4.0	-151.19	126.3	73.9	240.2	231.8	8.47	28.377		
1,500.0	1,436.8	1,467.6	1,454.0	7.6	4.3	-151.98	139.5	83.8	271.2	262.0	9.21	29.439		
1,600.0	1,527.9	1,562.6	1,547.6	8.4	4.7	-152.60	152.7	93.7	302.3	292.3	9.97	30.328		
1,700.0	1,619.0	1,657.6	1,641.1	9.3	5.1	-153.10	165.9	103.6	333.3	322.6	10.73	31.080		
1,800.0	1,710.1	1,752.6	1,734.7	10.1	5.4	-153.52	179.1	113.5	364.4	352.9	11.49	31.723		
1,900.0	1,801.2	1,847.6	1,828.3	11.0	5.8	-153.87	192.3	123.4	395.5	383.3	12.25	32.277		
2,000.0	1,892.3	1,942.6	1,921.8	11.8	6.2	-154.17	205.5	133.3	426.6	413.6	13.02	32.761		
2,100.0	1,983.4	2,037.7	2,015.4	12.7	6.5	-154.43	218.7	143.1	457.8	444.0	13.79	33.185		
2,200.0	2,074.5	2,132.7	2,109.0	13.5	6.9	-154.66	231.9	153.0	488.9	474.3	14.57	33.559		
2,300.0	2,165.6	2,227.7	2,202.6	14.4	7.3	-154.86	245.1	162.9	520.0	504.7	15.34	33.893		
2,400.0	2,256.7	2,322.7	2,296.1	15.2	7.6	-155.04	258.3	172.8	551.2	535.0	16.12	34.191		
2,500.0	2,347.8	2,417.7	2,389.7	16.1	8.0	-155.20	271.5	182.7	582.3	565.4	16.90	34.459		
2,600.0	2,438.9	2,512.7	2,483.3	16.9	8.4	-155.34	284.7	192.6	613.5	595.8	17.68	34.702		
2,700.0	2,530.0	2,607.7	2,576.8	17.8	8.7	-155.47	297.9	202.5	644.6	626.2	18.46	34.922		
2,800.0	2,621.1	2,702.8	2,670.4	18.6	9.1	-155.59	311.1	212.4	675.8	656.5	19.24	35.123		
2,900.0	2,712.2	2,797.8	2,764.0	19.5	9.5	-155.69	324.3	222.3	706.9	686.9	20.02	35.306		
3,000.0	2,803.3	2,892.8	2,857.6	20.3	9.8	-155.79	337.5	232.2	738.1	717.3	20.81	35.475		
3,100.0	2,894.4	2,987.8	2,951.1	21.2	10.2	-155.88	350.7	242.1	769.3	747.7	21.59	35.631		
3,200.0	2,985.5	3,082.8	3,044.7	22.0	10.6	-155.96	363.9	251.9	800.4	778.0	22.37	35.774		
3,300.0	3,076.6	3,177.8	3,138.3	22.9	11.0	-156.04	377.1	261.8	831.6	808.4	23.16	35.908		
3,400.0	3,167.7	3,272.8	3,231.8	23.8	11.3	-156.11	390.3	271.7	862.7	838.8	23.94	36.032		
3,500.0	3,258.8	3,367.9	3,325.4	24.6	11.7	-156.18	403.5	281.6	893.9	869.2	24.73	36.147		
3,600.0	3,349.9	3,462.9	3,419.0	25.5	12.1	-156.24	416.7	291.5	925.1	899.6	25.52	36.255		
3,700.0	3,441.0	3,557.9	3,512.6	26.3	12.4	-156.30	429.9	301.4	956.3	929.9	26.30	36.355		
3,800.0	3,532.1	3,652.9	3,606.1	27.2	12.8	-156.35	443.1	311.3	987.4	960.3	27.09	36.450		

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

Anticollision Report

Company:	Coachman Energy Operating Company, LLC	Local Co-ordinate Reference:	Well Federal 6/7-15-22
Project:	Garfield County, CO	TVD Reference:	DD @ 7073.0usft
Reference Site:	S22-T6S-R91W	MD Reference:	DD @ 7073.0usft
Site Error:	0.0usft	North Reference:	True
Reference Well:	Federal 6/7-15-22	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design 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	-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	164.38	-7.6	-15.0	17.4	16.4	1.08	16.172		
400.0	399.8	400.9	400.9	0.8	0.8	169.36	-6.2	-12.7	19.9	18.3	1.59	12.505		
500.0	499.3	501.9	501.5	1.0	1.0	178.40	-1.8	-6.0	22.7	20.6	2.13	10.646		
600.0	598.0	602.1	601.0	1.3	1.3	-171.77	4.8	4.0	27.6	24.9	2.69	10.250 SF		
700.0	695.8	701.5	699.6	1.7	1.6	-166.77	11.5	14.2	37.8	34.5	3.27	11.552		
800.0	792.4	800.3	797.7	2.2	1.8	-165.40	18.1	24.4	53.2	49.3	3.87	13.741		
900.0	887.5	898.2	894.8	2.8	2.1	-165.64	24.7	34.5	73.6	69.1	4.48	16.435		
1,000.0	980.9	994.9	990.8	3.5	2.4	-166.43	31.2	44.4	98.9	93.9	5.09	19.457		
1,061.8	1,037.6	1,054.0	1,049.5	3.9	2.6	-167.00	35.2	50.5	117.1	111.6	5.46	21.443		
1,100.0	1,072.4	1,090.3	1,085.5	4.2	2.7	-167.39	37.7	54.2	128.9	123.2	5.66	22.785		
1,200.0	1,163.5	1,185.4	1,179.8	5.1	3.0	-168.15	44.1	64.0	159.7	153.6	6.18	25.841		
1,300.0	1,254.6	1,280.5	1,274.2	5.9	3.3	-168.66	50.5	73.7	190.6	183.9	6.73	28.341		
1,400.0	1,345.7	1,375.6	1,368.6	6.7	3.6	-169.03	56.9	83.5	221.5	214.3	7.28	30.417		
1,500.0	1,436.8	1,470.7	1,463.0	7.6	3.9	-169.31	63.3	93.3	252.4	244.6	7.85	32.160		
1,600.0	1,527.9	1,565.8	1,557.4	8.4	4.2	-169.53	69.7	103.1	283.4	274.9	8.42	33.638		
1,700.0	1,619.0	1,660.9	1,651.7	9.3	4.5	-169.70	76.1	112.8	314.3	305.3	9.00	34.905		
1,800.0	1,710.1	1,756.0	1,746.1	10.1	4.8	-169.85	82.5	122.6	345.2	335.6	9.59	36.001		
1,900.0	1,801.2	1,851.0	1,840.5	11.0	5.1	-169.97	88.9	132.4	376.1	365.9	10.18	36.957		
2,000.0	1,892.3	1,946.1	1,934.9	11.8	5.4	-170.07	95.3	142.2	407.0	396.3	10.77	37.798		
2,100.0	1,983.4	2,041.2	2,029.2	12.7	5.7	-170.16	101.7	151.9	438.0	426.6	11.36	38.542		
2,200.0	2,074.5	2,136.3	2,123.6	13.5	6.0	-170.23	108.1	161.7	468.9	456.9	11.96	39.207		
2,300.0	2,165.6	2,231.4	2,218.0	14.4	6.3	-170.30	114.5	171.5	499.8	487.3	12.56	39.803		
2,400.0	2,256.7	2,326.5	2,312.4	15.2	6.6	-170.36	120.9	181.3	530.7	517.6	13.16	40.341		
2,500.0	2,347.8	2,421.6	2,406.7	16.1	6.9	-170.41	127.3	191.0	561.7	547.9	13.76	40.829		
2,600.0	2,438.9	2,516.7	2,501.1	16.9	7.2	-170.46	133.7	200.8	592.6	578.2	14.36	41.274		
2,700.0	2,530.0	2,611.8	2,595.5	17.8	7.5	-170.50	140.1	210.6	623.5	608.6	14.96	41.681		
2,800.0	2,621.1	2,706.9	2,689.9	18.6	7.8	-170.54	146.5	220.4	654.4	638.9	15.56	42.056		
2,900.0	2,712.2	2,802.0	2,784.2	19.5	8.1	-170.57	152.9	230.1	685.4	669.2	16.16	42.402		
3,000.0	2,803.3	2,897.1	2,878.6	20.3	8.4	-170.61	159.3	239.9	716.3	699.5	16.77	42.723		
3,100.0	2,894.4	2,992.2	2,973.0	21.2	8.8	-170.63	165.7	249.7	747.2	729.8	17.37	43.021		
3,200.0	2,985.5	3,087.3	3,067.4	22.0	9.1	-170.66	172.1	259.5	778.1	760.2	17.97	43.299		
3,300.0	3,076.6	3,182.4	3,161.7	22.9	9.4	-170.69	178.5	269.2	809.1	790.5	18.57	43.559		
3,400.0	3,167.7	3,277.5	3,256.1	23.8	9.7	-170.71	184.9	279.0	840.0	820.8	19.18	43.803		
3,500.0	3,258.8	3,372.6	3,350.5	24.6	10.0	-170.73	191.3	288.8	870.9	851.1	19.78	44.033		
3,600.0	3,349.9	3,467.7	3,444.9	25.5	10.3	-170.75	197.7	298.6	901.9	881.5	20.38	44.249		
3,700.0	3,441.0	3,562.8	3,539.3	26.3	10.6	-170.77	204.1	308.3	932.8	911.8	20.99	44.446		
3,800.0	3,532.1	3,657.9	3,633.6	27.2	10.9	-170.79	210.5	318.1	963.7	942.1	21.60	44.616		
3,900.0	3,623.2	3,753.0	3,728.0	28.0	11.2	-170.80	216.9	327.9	994.6	972.4	22.21	44.776		

Anticollision Report

Company:	Coachman Energy Operating Company, LLC	Local Co-ordinate Reference:	Well Federal 6/7-15-22
Project:	Garfield County, CO	TVD Reference:	DD @ 7073.0usft
Reference Site:	S22-T6S-R91W	MD Reference:	DD @ 7073.0usft
Site Error:	0.0usft	North Reference:	True
Reference Well:	Federal 6/7-15-22	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design 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		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	-147.91	-22.9	-14.4	27.1						
100.0	100.0	100.0	100.0	0.1	0.1	-147.91	-22.9	-14.4	27.1	26.9	0.17	162.860			
200.0	200.0	200.0	200.0	0.3	0.3	-147.91	-22.9	-14.4	27.1	26.5	0.62	43.984			
250.0	250.0	250.0	250.0	0.4	0.4	-147.91	-22.9	-14.4	27.1	26.2	0.84	32.224 CC, ES			
300.0	300.0	300.0	300.0	0.5	0.5	133.95	-22.9	-14.4	27.5	26.5	1.07	25.745			
400.0	399.8	400.5	400.5	0.8	0.7	138.26	-23.0	-12.6	30.3	28.8	1.55	19.517			
500.0	499.3	501.1	500.9	1.0	1.0	142.73	-23.0	-7.3	35.1	33.0	2.08	16.854			
600.0	598.0	601.7	601.2	1.3	1.2	146.67	-23.1	1.5	41.9	39.2	2.66	15.757 SF			
700.0	695.8	701.2	700.1	1.7	1.5	151.02	-23.1	12.0	52.0	48.7	3.27	15.897			
800.0	792.4	799.9	798.2	2.2	1.8	155.82	-23.2	22.4	67.0	63.1	3.90	17.180			
900.0	887.5	897.7	895.4	2.8	2.0	160.00	-23.3	32.7	87.2	82.6	4.53	19.249			
1,000.0	980.9	994.2	991.4	3.5	2.3	163.31	-23.3	42.9	112.5	107.4	5.15	21.843			
1,061.8	1,037.6	1,053.2	1,050.1	3.9	2.5	164.97	-23.4	49.2	130.8	125.2	5.53	23.630			
1,100.0	1,072.4	1,089.4	1,086.1	4.2	2.6	165.91	-23.4	53.0	142.6	136.9	5.73	24.888			
1,200.0	1,163.5	1,184.2	1,180.4	5.1	2.9	167.79	-23.5	63.0	173.9	167.6	6.26	27.790			
1,300.0	1,254.6	1,279.1	1,274.7	5.9	3.1	169.09	-23.5	73.0	205.3	198.5	6.79	30.215			
1,400.0	1,345.7	1,373.9	1,369.1	6.7	3.4	170.04	-23.6	83.0	236.7	229.4	7.34	32.243			
1,500.0	1,436.8	1,468.8	1,463.4	7.6	3.7	170.77	-23.7	93.0	268.2	260.3	7.90	33.961			
1,600.0	1,527.9	1,563.7	1,557.7	8.4	4.0	171.35	-23.8	103.1	299.7	291.3	8.46	35.429			
1,700.0	1,619.0	1,658.5	1,652.1	9.3	4.3	171.82	-23.8	113.1	331.3	322.3	9.03	36.694			
1,800.0	1,710.1	1,753.4	1,746.4	10.1	4.5	172.21	-23.9	123.1	362.8	353.2	9.60	37.794			
1,900.0	1,801.2	1,848.3	1,840.7	11.0	4.8	172.53	-24.0	133.1	394.4	384.2	10.18	38.756			
2,000.0	1,892.3	1,943.1	1,935.1	11.8	5.1	172.81	-24.0	143.1	426.0	415.3	10.76	39.606			
2,100.0	1,983.4	2,038.0	2,029.4	12.7	5.4	173.05	-24.1	153.2	457.6	446.3	11.34	40.361			
2,200.0	2,074.5	2,132.8	2,123.7	13.5	5.7	173.26	-24.2	163.2	489.2	477.3	11.92	41.035			
2,300.0	2,165.6	2,227.7	2,218.1	14.4	5.9	173.44	-24.2	173.2	520.8	508.3	12.51	41.642			
2,400.0	2,256.7	2,322.6	2,312.4	15.2	6.2	173.60	-24.3	183.2	552.4	539.3	13.09	42.190			
2,500.0	2,347.8	2,417.4	2,406.7	16.1	6.5	173.74	-24.4	193.2	584.0	570.3	13.68	42.689			
2,600.0	2,438.9	2,512.3	2,501.1	16.9	6.8	173.87	-24.4	203.2	615.6	601.4	14.27	43.144			
2,700.0	2,530.0	2,607.2	2,595.4	17.8	7.1	173.99	-24.5	213.3	647.3	632.4	14.86	43.561			
2,800.0	2,621.1	2,702.0	2,689.7	18.6	7.4	174.10	-24.6	223.3	678.9	663.4	15.45	43.945			
2,900.0	2,712.2	2,796.9	2,784.0	19.5	7.6	174.19	-24.6	233.3	710.5	694.5	16.04	44.300			
3,000.0	2,803.3	2,891.7	2,878.4	20.3	7.9	174.28	-24.7	243.3	742.1	725.5	16.63	44.630			
3,100.0	2,894.4	2,986.6	2,972.7	21.2	8.2	174.36	-24.8	253.3	773.7	756.5	17.22	44.936			
3,200.0	2,985.5	3,081.5	3,067.0	22.0	8.5	174.44	-24.8	263.3	805.4	787.6	17.81	45.223			
3,300.0	3,076.6	3,176.3	3,161.4	22.9	8.8	174.50	-24.9	273.4	837.0	818.6	18.40	45.490			
3,400.0	3,167.7	3,271.2	3,255.7	23.8	9.0	174.57	-25.0	283.4	868.6	849.6	18.99	45.742			
3,500.0	3,258.8	3,366.1	3,350.0	24.6	9.3	174.63	-25.0	293.4	900.3	880.7	19.58	45.979			
3,600.0	3,349.9	3,460.9	3,444.4	25.5	9.6	174.68	-25.1	303.4	931.9	911.7	20.17	46.202			
3,700.0	3,441.0	3,555.8	3,538.7	26.3	9.9	174.74	-25.2	313.4	963.5	942.8	20.76	46.414			
3,800.0	3,532.1	3,650.6	3,633.0	27.2	10.2	174.78	-25.3	323.4	995.1	973.8	21.35	46.614			

Anticollision Report

Company:	Coachman Energy Operating Company, LLC	Local Co-ordinate Reference:	Well Federal 6/7-15-22
Project:	Garfield County, CO	TVD Reference:	DD @ 7073.0usft
Reference Site:	S22-T6S-R91W	MD Reference:	DD @ 7073.0usft
Site Error:	0.0usft	North Reference:	True
Reference Well:	Federal 6/7-15-22	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S22-T6S-R91W - Federal 6/7-13-22 - 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	-1.08	29.9	-0.6	29.9					
100.0	100.0	100.0	100.0	0.1	0.1	-1.08	29.9	-0.6	29.9	29.7	0.17	179.619		
200.0	200.0	200.0	200.0	0.3	0.3	-1.08	29.9	-0.6	29.9	29.3	0.62	48.510		
250.0	250.0	250.0	250.0	0.4	0.4	-1.08	29.9	-0.6	29.9	29.0	0.84	35.540	CC	
300.0	300.0	299.6	299.6	0.5	0.5	-80.33	30.2	0.0	30.1	29.0	1.06	28.434	ES	
400.0	399.8	398.9	398.8	0.8	0.8	-81.27	32.6	4.5	31.6	30.1	1.50	21.006		
500.0	499.3	498.1	497.4	1.0	1.0	-82.89	37.6	13.6	34.6	32.6	2.02	17.176		
600.0	598.0	597.2	595.3	1.3	1.3	-84.83	44.9	27.1	39.2	36.6	2.64	14.887		
700.0	695.8	696.2	692.2	1.7	1.7	-86.78	54.7	45.0	45.4	42.0	3.40	13.357		
800.0	792.4	795.1	787.7	2.2	2.2	-88.53	66.9	67.3	53.2	48.8	4.34	12.262		
900.0	887.5	893.7	881.6	2.8	2.7	-90.01	81.3	93.8	62.5	57.0	5.46	11.438		
1,000.0	980.9	992.2	973.6	3.5	3.4	-91.21	98.0	124.5	73.3	66.5	6.78	10.806		
1,061.8	1,037.6	1,052.9	1,029.5	3.9	3.8	-91.82	109.5	145.4	80.7	73.0	7.71	10.475		
1,100.0	1,072.4	1,090.4	1,063.5	4.2	4.1	-92.04	117.0	159.2	85.6	77.3	8.30	10.317		
1,200.0	1,163.5	1,188.6	1,151.3	5.1	5.0	-90.66	138.0	197.7	99.2	89.3	9.92	10.002		
1,300.0	1,254.6	1,287.5	1,239.3	5.9	5.9	-88.96	159.7	237.6	113.2	101.6	11.57	9.780		
1,400.0	1,345.7	1,386.5	1,327.2	6.7	6.8	-87.63	181.5	277.5	127.3	114.0	13.24	9.614		
1,500.0	1,436.8	1,485.5	1,415.1	7.6	7.7	-86.57	203.2	317.4	141.4	126.5	14.90	9.486		
1,600.0	1,527.9	1,584.4	1,503.0	8.4	8.6	-85.70	225.0	357.3	155.6	139.0	16.57	9.385		
1,700.0	1,619.0	1,683.4	1,590.9	9.3	9.5	-84.97	246.7	397.2	169.8	151.5	18.25	9.304		
1,800.0	1,710.1	1,782.4	1,678.8	10.1	10.4	-84.36	268.5	437.1	184.0	164.1	19.92	9.237		
1,900.0	1,801.2	1,881.3	1,766.8	11.0	11.3	-83.83	290.3	477.0	198.2	176.6	21.59	9.181		
2,000.0	1,892.3	1,980.3	1,854.7	11.8	12.3	-83.38	312.0	516.9	212.5	189.2	23.26	9.133		
2,100.0	1,983.4	2,079.3	1,942.6	12.7	13.2	-82.98	333.8	556.8	226.7	201.8	24.94	9.092		
2,200.0	2,074.5	2,178.2	2,030.5	13.5	14.1	-82.63	355.5	596.7	241.0	214.4	26.61	9.057		
2,300.0	2,165.6	2,277.2	2,118.4	14.4	15.0	-82.32	377.3	636.6	255.3	227.0	28.28	9.027		
2,400.0	2,256.7	2,376.2	2,206.4	15.2	16.0	-82.04	399.0	676.4	269.6	239.6	29.95	8.999		
2,500.0	2,347.8	2,475.1	2,294.3	16.1	16.9	-81.79	420.8	716.3	283.9	252.2	31.63	8.975		
2,600.0	2,438.9	2,574.1	2,382.2	16.9	17.8	-81.57	442.5	756.2	298.2	264.9	33.30	8.954		
2,700.0	2,530.0	2,673.1	2,470.1	17.8	18.7	-81.36	464.3	796.1	312.5	277.5	34.97	8.935		
2,800.0	2,621.1	2,772.0	2,558.0	18.6	19.7	-81.17	486.0	836.0	326.8	290.1	36.64	8.917		
2,900.0	2,712.2	2,871.0	2,645.9	19.5	20.6	-81.00	507.8	875.9	341.1	302.8	38.32	8.902		
3,000.0	2,803.3	2,970.0	2,733.9	20.3	21.5	-80.84	529.5	915.8	355.4	315.4	39.99	8.887		
3,100.0	2,894.4	3,068.9	2,821.8	21.2	22.4	-80.70	551.3	955.7	369.7	328.0	41.66	8.874		
3,200.0	2,985.5	3,167.9	2,909.7	22.0	23.4	-80.56	573.0	995.6	384.0	340.7	43.33	8.862		
3,300.0	3,076.6	3,266.9	2,997.6	22.9	24.3	-80.44	594.8	1,035.5	398.3	353.3	45.01	8.851		
3,400.0	3,167.7	3,365.8	3,085.5	23.8	25.2	-80.32	616.5	1,075.4	412.6	366.0	46.68	8.840		
3,500.0	3,258.8	3,464.8	3,173.5	24.6	26.1	-80.21	638.3	1,115.3	427.0	378.6	48.35	8.831		
3,600.0	3,349.9	3,563.8	3,261.4	25.5	27.1	-80.11	660.0	1,155.2	441.3	391.3	50.02	8.822		
3,700.0	3,441.0	3,662.7	3,349.3	26.3	28.0	-80.01	681.8	1,195.1	455.6	403.9	51.69	8.814		
3,800.0	3,532.1	3,761.7	3,437.2	27.2	28.9	-79.93	703.6	1,235.0	469.9	416.6	53.37	8.806		
3,900.0	3,623.2	3,860.7	3,525.1	28.0	29.9	-79.84	725.3	1,274.9	484.3	429.2	55.04	8.799		
4,000.0	3,714.3	3,959.6	3,613.0	28.9	30.8	-79.76	747.1	1,314.7	498.6	441.9	56.71	8.792		
4,100.0	3,805.4	4,058.6	3,701.0	29.7	31.7	-79.69	768.8	1,354.6	512.9	454.5	58.38	8.786		
4,200.0	3,896.5	4,157.6	3,788.9	30.6	32.6	-79.62	790.6	1,394.5	527.3	467.2	60.05	8.780		
4,300.0	3,987.6	4,256.5	3,876.8	31.5	33.6	-79.55	812.3	1,434.4	541.6	479.9	61.72	8.774		
4,400.0	4,078.7	4,355.5	3,964.7	32.3	34.5	-79.49	834.1	1,474.3	555.9	492.5	63.40	8.769		
4,500.0	4,169.8	4,454.5	4,052.6	33.2	35.4	-79.43	855.8	1,514.2	570.2	505.2	65.07	8.764		
4,600.0	4,260.9	4,553.4	4,140.6	34.0	36.3	-79.37	877.6	1,554.1	584.6	517.8	66.74	8.759		
4,667.5	4,322.4	4,620.2	4,199.9	34.6	37.0	-79.33	892.3	1,581.0	594.2	526.4	67.87	8.756		
4,700.0	4,352.1	4,652.4	4,228.5	34.8	37.3	-79.43	899.3	1,594.0	599.0	530.6	68.40	8.756		
4,800.0	4,444.9	4,767.1	4,331.7	35.5	38.1	-79.58	923.2	1,637.8	612.9	543.1	69.80	8.780		

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

Anticollision Report

Company:	Coachman Energy Operating Company, LLC	Local Co-ordinate Reference:	Well Federal 6/7-15-22
Project:	Garfield County, CO	TVD Reference:	DD @ 7073.0usft
Reference Site:	S22-T6S-R91W	MD Reference:	DD @ 7073.0usft
Site Error:	0.0usft	North Reference:	True
Reference Well:	Federal 6/7-15-22	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S22-T6S-R91W - Federal 6/7-13-22 - 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		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)					
4,900.0	4,539.5	4,883.5	4,439.4	36.0	38.9	-79.71	944.3	1,676.5	625.0	554.0	71.00	8.802	
5,000.0	4,635.7	5,000.6	4,550.3	36.5	39.5	-79.82	962.4	1,709.7	635.3	563.3	72.03	8.820	
5,100.0	4,733.2	5,118.4	4,663.9	36.9	40.0	-79.91	977.2	1,736.9	643.7	570.9	72.86	8.835	
5,200.0	4,831.7	5,236.6	4,779.7	37.1	40.4	-79.98	988.8	1,758.0	650.2	576.7	73.52	8.844	
5,300.0	4,930.9	5,355.3	4,897.1	37.4	40.7	-80.03	996.8	1,772.8	654.8	580.8	74.00	8.848	
5,400.0	5,030.7	5,474.2	5,015.6	37.5	40.9	-80.06	1,001.4	1,781.2	657.3	583.0	74.32	8.845	
5,479.3	5,110.0	5,568.7	5,110.0	37.6	41.0	-0.94	1,002.5	1,783.3	658.0	583.5	74.45	8.837	
5,500.0	5,130.7	5,589.3	5,130.7	37.6	41.0	-0.94	1,002.5	1,783.3	658.0	583.5	74.48	8.834	
5,600.0	5,230.7	5,689.3	5,230.7	37.7	41.1	-0.94	1,002.5	1,783.3	658.0	583.4	74.61	8.819	
5,700.0	5,330.7	5,789.3	5,330.7	37.7	41.1	-0.94	1,002.5	1,783.3	658.0	583.2	74.74	8.803	
5,800.0	5,430.7	5,889.3	5,430.7	37.8	41.2	-0.94	1,002.5	1,783.3	658.0	583.1	74.88	8.787	
5,900.0	5,530.7	5,989.3	5,530.7	37.9	41.3	-0.94	1,002.5	1,783.3	658.0	582.9	75.02	8.770	
6,000.0	5,630.7	6,089.3	5,630.7	37.9	41.3	-0.94	1,002.5	1,783.3	658.0	582.8	75.16	8.754	
6,100.0	5,730.7	6,189.3	5,730.7	38.0	41.4	-0.94	1,002.5	1,783.3	658.0	582.7	75.31	8.737	
6,200.0	5,830.7	6,289.3	5,830.7	38.1	41.5	-0.94	1,002.5	1,783.3	658.0	582.5	75.45	8.720	
6,300.0	5,930.7	6,389.3	5,930.7	38.2	41.5	-0.94	1,002.5	1,783.3	658.0	582.4	75.60	8.703	
6,400.0	6,030.7	6,489.3	6,030.7	38.2	41.6	-0.94	1,002.5	1,783.3	658.0	582.2	75.76	8.685	
6,500.0	6,130.7	6,589.3	6,130.7	38.3	41.7	-0.94	1,002.5	1,783.3	658.0	582.0	75.91	8.668	
6,600.0	6,230.7	6,689.3	6,230.7	38.4	41.7	-0.94	1,002.5	1,783.3	658.0	581.9	76.07	8.650	
6,700.0	6,330.7	6,789.3	6,330.7	38.5	41.8	-0.94	1,002.5	1,783.3	658.0	581.7	76.22	8.632	
6,800.0	6,430.7	6,889.3	6,430.7	38.5	41.9	-0.94	1,002.5	1,783.3	658.0	581.6	76.39	8.614	
6,900.0	6,530.7	6,989.3	6,530.7	38.6	41.9	-0.94	1,002.5	1,783.3	658.0	581.4	76.55	8.595	
7,000.0	6,630.7	7,089.3	6,630.7	38.7	42.0	-0.94	1,002.5	1,783.3	658.0	581.2	76.71	8.577	
7,100.0	6,730.7	7,189.3	6,730.7	38.8	42.1	-0.94	1,002.5	1,783.3	658.0	581.1	76.88	8.558	
7,200.0	6,830.7	7,289.3	6,830.7	38.9	42.2	-0.94	1,002.5	1,783.3	658.0	580.9	77.05	8.539	
7,300.0	6,930.7	7,389.3	6,930.7	39.0	42.3	-0.94	1,002.5	1,783.3	658.0	580.7	77.23	8.520	
7,400.0	7,030.7	7,489.3	7,030.7	39.0	42.3	-0.94	1,002.5	1,783.3	658.0	580.6	77.40	8.501	
7,500.0	7,130.7	7,589.3	7,130.7	39.1	42.4	-0.94	1,002.5	1,783.3	658.0	580.4	77.58	8.481	
7,600.0	7,230.7	7,689.3	7,230.7	39.2	42.5	-0.94	1,002.5	1,783.3	658.0	580.2	77.76	8.462	
7,700.0	7,330.7	7,789.3	7,330.7	39.3	42.6	-0.94	1,002.5	1,783.3	658.0	580.0	77.94	8.442	
7,800.0	7,430.7	7,889.3	7,430.7	39.4	42.7	-0.94	1,002.5	1,783.3	658.0	579.8	78.12	8.422	
7,900.0	7,530.7	7,989.3	7,530.7	39.5	42.7	-0.94	1,002.5	1,783.3	658.0	579.7	78.31	8.402	
8,000.0	7,630.7	8,089.3	7,630.7	39.6	42.8	-0.94	1,002.5	1,783.3	658.0	579.5	78.49	8.382	
8,100.0	7,730.7	8,189.3	7,730.7	39.7	42.9	-0.94	1,002.5	1,783.3	658.0	579.3	78.68	8.362	
8,200.0	7,830.7	8,289.3	7,830.7	39.8	43.0	-0.94	1,002.5	1,783.3	658.0	579.1	78.88	8.342	
8,300.0	7,930.7	8,389.3	7,930.7	39.9	43.1	-0.94	1,002.5	1,783.3	658.0	578.9	79.07	8.321	
8,400.0	8,030.7	8,489.3	8,030.7	40.0	43.2	-0.94	1,002.5	1,783.3	658.0	578.7	79.27	8.301	
8,444.3	8,075.0	8,533.7	8,075.0	40.0	43.2	-0.94	1,002.5	1,783.3	658.0	578.6	79.35	8.291 SF	

Anticollision Report

Company:	Coachman Energy Operating Company, LLC	Local Co-ordinate Reference:	Well Federal 6/7-15-22
Project:	Garfield County, CO	TVD Reference:	DD @ 7073.0usft
Reference Site:	S22-T6S-R91W	MD Reference:	DD @ 7073.0usft
Site Error:	0.0usft	North Reference:	True
Reference Well:	Federal 6/7-15-22	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design 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	-1.08	14.9	-0.3	14.9					
100.0	100.0	100.0	100.0	0.1	0.1	-1.08	14.9	-0.3	14.9	14.8	0.17	89.809		
200.0	200.0	200.0	200.0	0.3	0.3	-1.08	14.9	-0.3	14.9	14.3	0.62	24.255 CC, ES		
250.0	250.0	249.9	249.9	0.4	0.4	1.24	15.2	0.3	15.2	14.3	0.84	18.070		
300.0	300.0	299.7	299.6	0.5	0.5	-73.59	15.8	2.2	15.8	14.7	1.06	14.918		
400.0	399.8	399.2	398.9	0.8	0.8	-67.03	18.5	9.5	17.8	16.3	1.53	11.641		
500.0	499.3	498.6	497.4	1.0	1.1	-63.17	23.0	21.6	20.7	18.7	2.08	9.966		
600.0	598.0	597.8	595.0	1.3	1.4	-61.41	29.2	38.5	24.4	21.7	2.73	8.956		
700.0	695.8	696.9	691.3	1.7	1.8	-61.09	37.1	60.0	28.8	25.3	3.49	8.246		
800.0	792.4	795.8	786.2	2.2	2.4	-61.65	46.8	86.2	33.8	29.4	4.40	7.681		
900.0	887.5	894.5	879.3	2.8	3.0	-62.72	58.1	116.9	39.4	34.0	5.48	7.199		
1,000.0	980.9	993.0	970.4	3.5	3.7	-64.05	71.0	152.0	45.8	39.0	6.75	6.777		
1,061.8	1,037.6	1,054.1	1,025.9	3.9	4.2	-64.99	79.8	175.9	50.0	42.3	7.64	6.537		
1,100.0	1,072.4	1,092.1	1,060.4	4.2	4.5	-65.87	85.4	191.1	52.5	44.3	8.23	6.382		
1,200.0	1,163.5	1,191.9	1,150.6	5.1	5.4	-67.80	100.1	230.9	59.2	49.4	9.80	6.041		
1,300.0	1,254.6	1,291.6	1,240.9	5.9	6.2	-69.34	114.7	270.7	66.0	54.5	11.41	5.779		
1,400.0	1,345.7	1,391.4	1,331.2	6.7	7.1	-70.59	129.4	310.5	72.8	59.7	13.05	5.575		
1,500.0	1,436.8	1,491.2	1,421.5	7.6	7.9	-71.63	144.0	350.3	79.6	64.9	14.70	5.413		
1,600.0	1,527.9	1,590.9	1,511.8	8.4	8.8	-72.50	158.7	390.1	86.4	70.1	16.36	5.282		
1,700.0	1,619.0	1,690.7	1,602.1	9.3	9.7	-73.25	173.3	429.9	93.3	75.2	18.03	5.173		
1,800.0	1,710.1	1,790.4	1,692.4	10.1	10.5	-73.89	188.0	469.8	100.2	80.4	19.71	5.082		
1,900.0	1,801.2	1,890.2	1,782.7	11.0	11.4	-74.45	202.7	509.6	107.0	85.7	21.38	5.005		
2,000.0	1,892.3	1,989.9	1,872.9	11.8	12.3	-74.94	217.3	549.4	113.9	90.9	23.07	4.939		
2,100.0	1,983.4	2,089.7	1,963.2	12.7	13.1	-75.38	232.0	589.2	120.8	96.1	24.75	4.882		
2,200.0	2,074.5	2,189.5	2,053.5	13.5	14.0	-75.77	246.6	629.0	127.7	101.3	26.44	4.832		
2,300.0	2,165.6	2,289.2	2,143.8	14.4	14.9	-76.12	261.3	668.8	134.7	106.5	28.13	4.787		
2,400.0	2,256.7	2,389.0	2,234.1	15.2	15.7	-76.43	275.9	708.6	141.6	111.8	29.82	4.748		
2,500.0	2,347.8	2,488.7	2,324.4	16.1	16.6	-76.72	290.6	748.4	148.5	117.0	31.51	4.712		
2,600.0	2,438.9	2,588.5	2,414.7	16.9	17.5	-76.98	305.3	788.2	155.4	122.2	33.20	4.681		
2,700.0	2,530.0	2,688.2	2,505.0	17.8	18.4	-77.22	319.9	828.0	162.3	127.4	34.90	4.652		
2,800.0	2,621.1	2,788.0	2,595.2	18.6	19.2	-77.44	334.6	867.9	169.3	132.7	36.59	4.626		
2,900.0	2,712.2	2,887.8	2,685.5	19.5	20.1	-77.64	349.2	907.7	176.2	137.9	38.29	4.602		
3,000.0	2,803.3	2,987.5	2,775.8	20.3	21.0	-77.82	363.9	947.5	183.1	143.2	39.98	4.581		
3,100.0	2,894.4	3,087.3	2,866.1	21.2	21.8	-78.00	378.5	987.3	190.1	148.4	41.68	4.561		
3,200.0	2,985.5	3,187.0	2,956.4	22.0	22.7	-78.16	393.2	1,027.1	197.0	153.6	43.37	4.542		
3,300.0	3,076.6	3,286.8	3,046.7	22.9	23.6	-78.31	407.9	1,066.9	204.0	158.9	45.07	4.525		
3,400.0	3,167.7	3,386.5	3,137.0	23.8	24.5	-78.45	422.5	1,106.7	210.9	164.1	46.76	4.510		
3,500.0	3,258.8	3,486.3	3,227.3	24.6	25.3	-78.58	437.2	1,146.5	217.8	169.4	48.46	4.495		
3,600.0	3,349.9	3,586.1	3,317.6	25.5	26.2	-78.70	451.8	1,186.3	224.8	174.6	50.16	4.482		
3,700.0	3,441.0	3,685.8	3,407.8	26.3	27.1	-78.82	466.5	1,226.1	231.7	179.9	51.85	4.469		
3,800.0	3,532.1	3,785.6	3,498.1	27.2	27.9	-78.92	481.1	1,266.0	238.7	185.1	53.55	4.457		
3,900.0	3,623.2	3,885.3	3,588.4	28.0	28.8	-79.03	495.8	1,305.8	245.6	190.4	55.25	4.446		
4,000.0	3,714.3	3,985.1	3,678.7	28.9	29.7	-79.12	510.5	1,345.6	252.6	195.6	56.95	4.435		
4,100.0	3,805.4	4,084.8	3,769.0	29.7	30.6	-79.22	525.1	1,385.4	259.5	200.9	58.64	4.425		
4,200.0	3,896.5	4,184.6	3,859.3	30.6	31.4	-79.30	539.8	1,425.2	266.5	206.1	60.34	4.416		
4,300.0	3,987.6	4,284.4	3,949.6	31.5	32.3	-79.39	554.4	1,465.0	273.4	211.4	62.04	4.407		
4,400.0	4,078.7	4,384.1	4,039.9	32.3	33.2	-79.46	569.1	1,504.8	280.4	216.6	63.74	4.399		
4,500.0	4,169.8	4,483.9	4,130.1	33.2	34.1	-79.54	583.7	1,544.6	287.3	221.9	65.43	4.391		
4,600.0	4,260.9	4,583.6	4,220.4	34.0	34.9	-79.61	598.4	1,584.4	294.3	227.1	67.13	4.383		
4,667.5	4,322.4	4,651.0	4,281.4	34.6	35.5	-79.66	608.3	1,611.3	298.9	230.7	68.28	4.378		
4,700.0	4,352.1	4,684.2	4,311.4	34.8	35.8	-79.70	613.2	1,624.5	301.2	232.4	68.79	4.379		
4,800.0	4,444.9	4,789.4	4,408.2	35.5	36.5	-79.79	627.4	1,663.3	307.8	237.7	70.07	4.393		

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

Anticollision Report

Company:	Coachman Energy Operating Company, LLC	Local Co-ordinate Reference:	Well Federal 6/7-15-22
Project:	Garfield County, CO	TVD Reference:	DD @ 7073.0usft
Reference Site:	S22-T6S-R91W	MD Reference:	DD @ 7073.0usft
Site Error:	0.0usft	North Reference:	True
Reference Well:	Federal 6/7-15-22	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design 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							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning	
4,900.0	4,539.5	4,894.8	4,507.2	36.0	37.1	-79.86	639.9	1,697.1	313.5	242.4	71.17	4.405		
5,000.0	4,635.7	5,000.4	4,608.3	36.5	37.6	-79.92	650.4	1,725.7	318.4	246.3	72.11	4.415		
5,100.0	4,733.2	5,106.1	4,711.0	36.9	38.0	-79.98	659.0	1,749.1	322.3	249.4	72.87	4.423		
5,200.0	4,831.7	5,212.0	4,815.1	37.1	38.4	-80.02	665.7	1,767.2	325.4	251.9	73.47	4.428		
5,300.0	4,930.9	5,317.9	4,920.2	37.4	38.6	-80.04	670.3	1,779.8	327.5	253.6	73.91	4.431		
5,400.0	5,030.7	5,423.9	5,025.9	37.5	38.8	-80.06	673.0	1,786.9	328.7	254.5	74.20	4.430		
5,479.3	5,110.0	5,508.0	5,110.0	37.6	38.8	-0.94	673.6	1,788.7	329.0	254.7	74.33	4.426		
5,500.0	5,130.7	5,528.7	5,130.7	37.6	38.8	-0.94	673.6	1,788.7	329.0	254.6	74.35	4.425		
5,600.0	5,230.7	5,628.7	5,230.7	37.7	38.9	-0.94	673.6	1,788.7	329.0	254.5	74.48	4.417		
5,700.0	5,330.7	5,728.7	5,330.7	37.7	39.0	-0.94	673.6	1,788.7	329.0	254.4	74.62	4.409		
5,800.0	5,430.7	5,828.7	5,430.7	37.8	39.0	-0.94	673.6	1,788.7	329.0	254.2	74.75	4.401		
5,900.0	5,530.7	5,928.7	5,530.7	37.9	39.1	-0.94	673.6	1,788.7	329.0	254.1	74.90	4.393		
6,000.0	5,630.7	6,028.7	5,630.7	37.9	39.2	-0.94	673.6	1,788.7	329.0	253.9	75.04	4.384		
6,100.0	5,730.7	6,128.7	5,730.7	38.0	39.2	-0.94	673.6	1,788.7	329.0	253.8	75.18	4.376		
6,200.0	5,830.7	6,228.7	5,830.7	38.1	39.3	-0.94	673.6	1,788.7	329.0	253.6	75.33	4.367		
6,300.0	5,930.7	6,328.7	5,930.7	38.2	39.4	-0.94	673.6	1,788.7	329.0	253.5	75.48	4.358		
6,400.0	6,030.7	6,428.7	6,030.7	38.2	39.5	-0.94	673.6	1,788.7	329.0	253.3	75.63	4.350		
6,500.0	6,130.7	6,528.7	6,130.7	38.3	39.5	-0.94	673.6	1,788.7	329.0	253.2	75.79	4.341		
6,600.0	6,230.7	6,628.7	6,230.7	38.4	39.6	-0.94	673.6	1,788.7	329.0	253.0	75.95	4.332		
6,700.0	6,330.7	6,728.7	6,330.7	38.5	39.7	-0.94	673.6	1,788.7	329.0	252.9	76.10	4.323		
6,800.0	6,430.7	6,828.7	6,430.7	38.5	39.8	-0.94	673.6	1,788.7	329.0	252.7	76.27	4.314		
6,900.0	6,530.7	6,928.7	6,530.7	38.6	39.8	-0.94	673.6	1,788.7	329.0	252.5	76.43	4.304		
7,000.0	6,630.7	7,028.7	6,630.7	38.7	39.9	-0.94	673.6	1,788.7	329.0	252.4	76.60	4.295		
7,100.0	6,730.7	7,128.7	6,730.7	38.8	40.0	-0.94	673.6	1,788.7	329.0	252.2	76.77	4.285		
7,200.0	6,830.7	7,228.7	6,830.7	38.9	40.1	-0.94	673.6	1,788.7	329.0	252.0	76.94	4.276		
7,300.0	6,930.7	7,328.7	6,930.7	39.0	40.2	-0.94	673.6	1,788.7	329.0	251.9	77.11	4.266		
7,400.0	7,030.7	7,428.7	7,030.7	39.0	40.2	-0.94	673.6	1,788.7	329.0	251.7	77.29	4.257		
7,500.0	7,130.7	7,528.7	7,130.7	39.1	40.3	-0.94	673.6	1,788.7	329.0	251.5	77.46	4.247		
7,600.0	7,230.7	7,628.7	7,230.7	39.2	40.4	-0.94	673.6	1,788.7	329.0	251.3	77.64	4.237		
7,700.0	7,330.7	7,728.7	7,330.7	39.3	40.5	-0.94	673.6	1,788.7	329.0	251.2	77.82	4.227		
7,800.0	7,430.7	7,828.7	7,430.7	39.4	40.6	-0.94	673.6	1,788.7	329.0	251.0	78.01	4.217		
7,900.0	7,530.7	7,928.7	7,530.7	39.5	40.7	-0.94	673.6	1,788.7	329.0	250.8	78.20	4.207		
8,000.0	7,630.7	8,028.7	7,630.7	39.6	40.8	-0.94	673.6	1,788.7	329.0	250.6	78.38	4.197		
8,100.0	7,730.7	8,128.7	7,730.7	39.7	40.9	-0.94	673.6	1,788.7	329.0	250.4	78.57	4.187		
8,200.0	7,830.7	8,228.7	7,830.7	39.8	41.0	-0.94	673.6	1,788.7	329.0	250.2	78.77	4.177		
8,300.0	7,930.7	8,328.7	7,930.7	39.9	41.0	-0.94	673.6	1,788.7	329.0	250.0	78.96	4.166		
8,400.0	8,030.7	8,428.7	8,030.7	40.0	41.1	-0.94	673.6	1,788.7	329.0	249.8	79.16	4.156		
8,444.3	8,075.0	8,473.0	8,075.0	40.0	41.2	-0.94	673.6	1,788.7	329.0	249.7	79.25	4.151 SF		

Anticollision Report

Company:	Coachman Energy Operating Company, LLC	Local Co-ordinate Reference:	Well Federal 6/7-15-22
Project:	Garfield County, CO	TVD Reference:	DD @ 7073.0usft
Reference Site:	S22-T6S-R91W	MD Reference:	DD @ 7073.0usft
Site Error:	0.0usft	North Reference:	True
Reference Well:	Federal 6/7-15-22	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design 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	-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 CC		
209.7	209.7	209.7	209.7	0.3	0.3	178.82	-14.9	0.3	14.9	14.3	0.66	22.663		
250.0	250.0	250.0	250.0	0.4	0.4	176.41	-14.9	0.9	15.0	14.1	0.84	17.816 ES		
300.0	300.0	299.9	299.9	0.5	0.5	92.33	-14.9	2.9	15.2	14.1	1.05	14.429		
400.0	399.8	399.7	399.4	0.8	0.8	83.50	-14.8	10.7	16.6	15.1	1.51	11.027		
500.0	499.3	499.4	498.1	1.0	1.0	77.08	-14.5	23.7	19.2	17.2	2.05	9.401		
600.0	598.0	598.8	595.9	1.3	1.4	73.12	-14.2	41.8	22.9	20.2	2.69	8.481		
700.0	695.8	698.1	692.5	1.7	1.9	71.04	-13.8	64.9	27.3	23.9	3.47	7.867		
800.0	792.4	797.2	787.5	2.2	2.4	70.21	-13.4	92.9	32.6	28.2	4.41	7.395		
900.0	887.5	896.1	880.8	2.8	3.0	70.16	-12.8	125.7	38.7	33.1	5.52	6.998		
1,000.0	980.9	994.9	972.2	3.5	3.8	70.59	-12.2	163.3	45.4	38.6	6.83	6.650		
1,061.8	1,037.6	1,056.6	1,028.7	3.9	4.2	72.25	-11.7	188.0	49.4	41.7	7.77	6.360		
1,100.0	1,072.4	1,094.7	1,063.6	4.2	4.6	73.86	-11.5	203.3	51.8	43.4	8.39	6.168		
1,200.0	1,163.5	1,194.4	1,154.9	5.1	5.4	77.45	-10.8	243.3	58.0	47.9	10.05	5.769		
1,300.0	1,254.6	1,294.2	1,246.3	5.9	6.2	80.34	-10.1	283.3	64.4	52.7	11.74	5.486		
1,400.0	1,345.7	1,393.9	1,337.7	6.7	7.0	82.71	-9.4	323.3	71.0	57.5	13.44	5.279		
1,500.0	1,436.8	1,493.7	1,429.1	7.6	7.8	84.67	-8.7	363.2	77.6	62.5	15.15	5.124		
1,600.0	1,527.9	1,593.4	1,520.4	8.4	8.7	86.32	-8.1	403.2	84.4	67.5	16.86	5.005		
1,700.0	1,619.0	1,693.2	1,611.8	9.3	9.5	87.72	-7.4	443.2	91.2	72.6	18.56	4.912		
1,800.0	1,710.1	1,792.9	1,703.2	10.1	10.3	88.93	-6.7	483.2	98.0	77.7	20.26	4.837		
1,900.0	1,801.2	1,892.7	1,794.6	11.0	11.1	89.98	-6.0	523.2	104.9	82.9	21.96	4.776		
2,000.0	1,892.3	1,992.4	1,886.0	11.8	12.0	90.90	-5.3	563.2	111.8	88.1	23.66	4.725		
2,100.0	1,983.4	2,092.1	1,977.3	12.7	12.8	91.72	-4.7	603.2	118.7	93.4	25.35	4.683		
2,200.0	2,074.5	2,191.9	2,068.7	13.5	13.6	92.44	-4.0	643.2	125.7	98.6	27.04	4.647		
2,300.0	2,165.6	2,291.6	2,160.1	14.4	14.5	93.09	-3.3	683.1	132.6	103.9	28.73	4.616		
2,400.0	2,256.7	2,391.4	2,251.5	15.2	15.3	93.67	-2.6	723.1	139.6	109.2	30.42	4.590		
2,500.0	2,347.8	2,491.1	2,342.8	16.1	16.1	94.20	-1.9	763.1	146.6	114.5	32.11	4.567		
2,600.0	2,438.9	2,590.9	2,434.2	16.9	17.0	94.68	-1.2	803.1	153.6	119.8	33.79	4.546		
2,700.0	2,530.0	2,690.6	2,525.6	17.8	17.8	95.12	-0.6	843.1	160.7	125.2	35.48	4.528		
2,800.0	2,621.1	2,790.4	2,617.0	18.6	18.6	95.52	0.1	883.1	167.7	130.5	37.16	4.513		
2,900.0	2,712.2	2,890.1	2,708.4	19.5	19.5	95.89	0.8	923.1	174.7	135.9	38.84	4.498		
3,000.0	2,803.3	2,989.9	2,799.7	20.3	20.3	96.23	1.5	963.1	181.8	141.2	40.52	4.486		
3,100.0	2,894.4	3,089.6	2,891.1	21.2	21.1	96.54	2.2	1,003.0	188.8	146.6	42.20	4.474		
3,200.0	2,985.5	3,189.3	2,982.5	22.0	22.0	96.84	2.8	1,043.0	195.9	152.0	43.88	4.464		
3,300.0	3,076.6	3,289.1	3,073.9	22.9	22.8	97.11	3.5	1,083.0	202.9	157.4	45.56	4.455		
3,400.0	3,167.7	3,388.8	3,165.2	23.8	23.6	97.36	4.2	1,123.0	210.0	162.8	47.23	4.446		
3,500.0	3,258.8	3,488.6	3,256.6	24.6	24.5	97.60	4.9	1,163.0	217.1	168.2	48.91	4.438		
3,600.0	3,349.9	3,588.3	3,348.0	25.5	25.3	97.82	5.6	1,203.0	224.1	173.5	50.58	4.431		
3,700.0	3,441.0	3,688.1	3,439.4	26.3	26.1	98.03	6.3	1,243.0	231.2	178.9	52.26	4.424		
3,800.0	3,532.1	3,787.8	3,530.7	27.2	27.0	98.22	6.9	1,283.0	238.3	184.4	53.93	4.418		
3,900.0	3,623.2	3,887.6	3,622.1	28.0	27.8	98.41	7.6	1,323.0	245.4	189.8	55.61	4.413		
4,000.0	3,714.3	3,987.3	3,713.5	28.9	28.7	98.58	8.3	1,362.9	252.4	195.2	57.28	4.407		
4,100.0	3,805.4	4,087.1	3,804.9	29.7	29.5	98.75	9.0	1,402.9	259.5	200.6	58.95	4.402		
4,200.0	3,896.5	4,186.8	3,896.3	30.6	30.3	98.90	9.7	1,442.9	266.6	206.0	60.62	4.398		
4,300.0	3,987.6	4,286.6	3,987.6	31.5	31.2	99.05	10.3	1,482.9	273.7	211.4	62.29	4.394		
4,400.0	4,078.7	4,386.3	4,079.0	32.3	32.0	99.19	11.0	1,522.9	280.8	216.8	63.97	4.390		
4,500.0	4,169.8	4,486.0	4,170.4	33.2	32.8	99.33	11.7	1,562.9	287.9	222.3	65.64	4.386		
4,600.0	4,260.9	4,585.8	4,261.8	34.0	33.7	99.45	12.4	1,602.9	295.0	227.7	67.31	4.383		
4,667.5	4,322.4	4,653.1	4,323.4	34.6	34.2	99.54	12.9	1,629.9	299.8	231.3	68.43	4.380		
4,700.0	4,352.1	4,685.5	4,353.1	34.8	34.5	99.60	13.1	1,642.8	302.0	233.1	68.94	4.381		

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

Anticollision Report

Company:	Coachman Energy Operating Company, LLC	Local Co-ordinate Reference:	Well Federal 6/7-15-22
Project:	Garfield County, CO	TVD Reference:	DD @ 7073.0usft
Reference Site:	S22-T6S-R91W	MD Reference:	DD @ 7073.0usft
Site Error:	0.0usft	North Reference:	True
Reference Well:	Federal 6/7-15-22	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design 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		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)					
4,800.0	4,444.9	4,785.2	4,445.6	35.5	35.1	99.69	13.7	1,679.9	308.4	238.2	70.20	4.394	
4,900.0	4,539.5	4,884.9	4,540.0	36.0	35.7	99.77	14.3	1,712.1	314.0	242.7	71.28	4.405	
5,000.0	4,635.7	4,984.8	4,636.0	36.5	36.1	99.84	14.7	1,739.4	318.7	246.5	72.20	4.414	
5,100.0	4,733.2	5,084.6	4,733.4	36.9	36.5	99.89	15.1	1,761.7	322.5	249.6	72.95	4.421	
5,200.0	4,831.7	5,184.5	4,831.8	37.1	36.8	99.94	15.4	1,778.8	325.5	251.9	73.55	4.425	
5,300.0	4,930.9	5,284.5	4,931.0	37.4	37.0	99.97	15.6	1,790.8	327.5	253.5	73.98	4.427	
5,400.0	5,030.7	5,384.4	5,030.7	37.5	37.2	99.98	15.7	1,797.5	328.7	254.4	74.27	4.426	
5,479.3	5,110.0	5,463.7	5,110.0	37.6	37.2	179.11	15.7	1,799.2	329.0	254.6	74.40	4.422	
5,500.0	5,130.7	5,484.4	5,130.7	37.6	37.2	179.11	15.7	1,799.2	329.0	254.6	74.42	4.420	
5,600.0	5,230.7	5,584.4	5,230.7	37.7	37.3	179.11	15.7	1,799.2	329.0	254.4	74.55	4.413	
5,700.0	5,330.7	5,684.4	5,330.7	37.7	37.4	179.11	15.7	1,799.2	329.0	254.3	74.69	4.405	
5,800.0	5,430.7	5,784.4	5,430.7	37.8	37.4	179.11	15.7	1,799.2	329.0	254.1	74.83	4.396	
5,900.0	5,530.7	5,884.4	5,530.7	37.9	37.5	179.11	15.7	1,799.2	329.0	254.0	74.97	4.388	
6,000.0	5,630.7	5,984.4	5,630.7	37.9	37.6	179.11	15.7	1,799.2	329.0	253.9	75.11	4.380	
6,100.0	5,730.7	6,084.4	5,730.7	38.0	37.7	179.11	15.7	1,799.2	329.0	253.7	75.25	4.372	
6,200.0	5,830.7	6,184.4	5,830.7	38.1	37.7	179.11	15.7	1,799.2	329.0	253.6	75.40	4.363	
6,300.0	5,930.7	6,284.4	5,930.7	38.2	37.8	179.11	15.7	1,799.2	329.0	253.4	75.55	4.354	
6,400.0	6,030.7	6,384.4	6,030.7	38.2	37.9	179.11	15.7	1,799.2	329.0	253.3	75.70	4.346	
6,500.0	6,130.7	6,484.4	6,130.7	38.3	38.0	179.11	15.7	1,799.2	329.0	253.1	75.86	4.337	
6,600.0	6,230.7	6,584.4	6,230.7	38.4	38.0	179.11	15.7	1,799.2	329.0	253.0	76.01	4.328	
6,700.0	6,330.7	6,684.4	6,330.7	38.5	38.1	179.11	15.7	1,799.2	329.0	252.8	76.17	4.319	
6,800.0	6,430.7	6,784.4	6,430.7	38.5	38.2	179.11	15.7	1,799.2	329.0	252.6	76.33	4.310	
6,900.0	6,530.7	6,884.4	6,530.7	38.6	38.3	179.11	15.7	1,799.2	329.0	252.5	76.50	4.300	
7,000.0	6,630.7	6,984.4	6,630.7	38.7	38.4	179.11	15.7	1,799.2	329.0	252.3	76.66	4.291	
7,100.0	6,730.7	7,084.4	6,730.7	38.8	38.4	179.11	15.7	1,799.2	329.0	252.1	76.83	4.282	
7,200.0	6,830.7	7,184.4	6,830.7	38.9	38.5	179.11	15.7	1,799.2	329.0	252.0	77.00	4.272	
7,300.0	6,930.7	7,284.4	6,930.7	39.0	38.6	179.11	15.7	1,799.2	329.0	251.8	77.17	4.263	
7,400.0	7,030.7	7,384.4	7,030.7	39.0	38.7	179.11	15.7	1,799.2	329.0	251.6	77.35	4.253	
7,500.0	7,130.7	7,484.4	7,130.7	39.1	38.8	179.11	15.7	1,799.2	329.0	251.4	77.53	4.243	
7,600.0	7,230.7	7,584.4	7,230.7	39.2	38.9	179.11	15.7	1,799.2	329.0	251.3	77.71	4.234	
7,700.0	7,330.7	7,684.4	7,330.7	39.3	39.0	179.11	15.7	1,799.2	329.0	251.1	77.89	4.224	
7,800.0	7,430.7	7,784.4	7,430.7	39.4	39.1	179.11	15.7	1,799.2	329.0	250.9	78.07	4.214	
7,900.0	7,530.7	7,884.4	7,530.7	39.5	39.2	179.11	15.7	1,799.2	329.0	250.7	78.26	4.204	
8,000.0	7,630.7	7,984.4	7,630.7	39.6	39.2	179.11	15.7	1,799.2	329.0	250.5	78.44	4.194	
8,100.0	7,730.7	8,084.4	7,730.7	39.7	39.3	179.11	15.7	1,799.2	329.0	250.3	78.63	4.184	
8,200.0	7,830.7	8,184.4	7,830.7	39.8	39.4	179.11	15.7	1,799.2	329.0	250.1	78.83	4.173	
8,300.0	7,930.7	8,284.4	7,930.7	39.9	39.5	179.11	15.7	1,799.2	329.0	250.0	79.02	4.163	
8,400.0	8,030.7	8,384.4	8,030.7	40.0	39.6	179.11	15.7	1,799.2	329.0	249.8	79.22	4.153	
8,444.3	8,075.0	8,428.7	8,075.0	40.0	39.7	179.11	15.7	1,799.2	329.0	249.7	79.30	4.148 SF	

Anticollision Report

Company:	Coachman Energy Operating Company, LLC	Local Co-ordinate Reference:	Well Federal 6/7-15-22
Project:	Garfield County, CO	TVD Reference:	DD @ 7073.0usft
Reference Site:	S22-T6S-R91W	MD Reference:	DD @ 7073.0usft
Site Error:	0.0usft	North Reference:	True
Reference Well:	Federal 6/7-15-22	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to DD @ 7073.0usft

Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

Coordinates are relative to: Federal 6/7-15-22

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: -1.32°

