



Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Federal 2/3-14-22
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 2/3-14-22	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 2/3-14-22					
Well Position	+N/-S	0.0 usft	Northing:	1,069,960.78 usft	Latitude:	39.507052
	+E/-W	0.0 usft	Easting:	2,421,857.94 usft	Longitude:	-107.549034
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)
	HDGM	3/13/2015	9.60	65.67	51,942

Design	Plan #1				
Audit Notes:					
Version:	Phase:	PLAN		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	36.84	

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
350.0	0.00	0.00	350.0	0.0	0.0	0.00	0.00	0.00	0.00	
683.2	10.00	36.84	681.6	23.2	17.4	3.00	3.00	0.00	36.84	
4,843.3	10.00	36.84	4,778.4	601.2	450.5	0.00	0.00	0.00	0.00	
5,176.5	0.00	0.00	5,110.0	624.4	467.8	3.00	-3.00	0.00	180.00	2/3-14-22 TOG
8,141.5	0.00	0.00	8,075.0	624.4	467.8	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 2/3-14-22	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	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	
350.0	0.00	0.00	350.0	0.0	0.0	0.0	0.00	0.00	KOP @ 350'
400.0	1.50	36.84	400.0	0.5	0.4	0.7	3.00	3.00	
500.0	4.50	36.84	499.8	4.7	3.5	5.9	3.00	3.00	
600.0	7.50	36.84	599.3	13.1	9.8	16.3	3.00	3.00	
683.2	10.00	36.84	681.6	23.2	17.4	29.0	3.00	3.00	EOB; INC=10°
700.0	10.00	36.84	698.1	25.5	19.1	31.9	0.00	0.00	
800.0	10.00	36.84	796.5	39.4	29.5	49.3	0.00	0.00	
900.0	10.00	36.84	895.0	53.3	40.0	66.6	0.00	0.00	
1,000.0	10.00	36.84	993.5	67.2	50.4	84.0	0.00	0.00	
1,100.0	10.00	36.84	1,092.0	81.1	60.8	101.4	0.00	0.00	
1,200.0	10.00	36.84	1,190.5	95.0	71.2	118.7	0.00	0.00	
1,300.0	10.00	36.84	1,288.9	108.9	81.6	136.1	0.00	0.00	
1,400.0	10.00	36.84	1,387.4	122.8	92.0	153.4	0.00	0.00	
1,500.0	10.00	36.84	1,485.9	136.7	102.4	170.8	0.00	0.00	
1,600.0	10.00	36.84	1,584.4	150.6	112.8	188.2	0.00	0.00	
1,700.0	10.00	36.84	1,682.9	164.5	123.2	205.5	0.00	0.00	
1,800.0	10.00	36.84	1,781.4	178.4	133.6	222.9	0.00	0.00	
1,900.0	10.00	36.84	1,879.8	192.3	144.1	240.2	0.00	0.00	
2,000.0	10.00	36.84	1,978.3	206.1	154.5	257.6	0.00	0.00	
2,100.0	10.00	36.84	2,076.8	220.0	164.9	275.0	0.00	0.00	
2,200.0	10.00	36.84	2,175.3	233.9	175.3	292.3	0.00	0.00	
2,300.0	10.00	36.84	2,273.8	247.8	185.7	309.7	0.00	0.00	
2,400.0	10.00	36.84	2,372.2	261.7	196.1	327.0	0.00	0.00	
2,500.0	10.00	36.84	2,470.7	275.6	206.5	344.4	0.00	0.00	
2,600.0	10.00	36.84	2,569.2	289.5	216.9	361.8	0.00	0.00	
2,700.0	10.00	36.84	2,667.7	303.4	227.3	379.1	0.00	0.00	
2,800.0	10.00	36.84	2,766.2	317.3	237.7	396.5	0.00	0.00	
2,900.0	10.00	36.84	2,864.7	331.2	248.2	413.8	0.00	0.00	
3,000.0	10.00	36.84	2,963.1	345.1	258.6	431.2	0.00	0.00	
3,100.0	10.00	36.84	3,061.6	359.0	269.0	448.6	0.00	0.00	
3,200.0	10.00	36.84	3,160.1	372.9	279.4	465.9	0.00	0.00	
3,300.0	10.00	36.84	3,258.6	386.8	289.8	483.3	0.00	0.00	
3,400.0	10.00	36.84	3,357.1	400.6	300.2	500.6	0.00	0.00	
3,500.0	10.00	36.84	3,455.5	414.5	310.6	518.0	0.00	0.00	
3,600.0	10.00	36.84	3,554.0	428.4	321.0	535.4	0.00	0.00	
3,700.0	10.00	36.84	3,652.5	442.3	331.4	552.7	0.00	0.00	
3,800.0	10.00	36.84	3,751.0	456.2	341.8	570.1	0.00	0.00	
3,900.0	10.00	36.84	3,849.5	470.1	352.3	587.4	0.00	0.00	
4,000.0	10.00	36.84	3,947.9	484.0	362.7	604.8	0.00	0.00	
4,100.0	10.00	36.84	4,046.4	497.9	373.1	622.2	0.00	0.00	
4,200.0	10.00	36.84	4,144.9	511.8	383.5	639.5	0.00	0.00	
4,300.0	10.00	36.84	4,243.4	525.7	393.9	656.9	0.00	0.00	
4,400.0	10.00	36.84	4,341.9	539.6	404.3	674.2	0.00	0.00	
4,500.0	10.00	36.84	4,440.4	553.5	414.7	691.6	0.00	0.00	
4,600.0	10.00	36.84	4,538.8	567.4	425.1	709.0	0.00	0.00	
4,700.0	10.00	36.84	4,637.3	581.3	435.5	726.3	0.00	0.00	
4,704.8	10.00	36.84	4,642.0	581.9	436.0	727.1	0.00	0.00	Williams Fork
4,800.0	10.00	36.84	4,735.8	595.1	445.9	743.7	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 2/3-14-22	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
4,843.3	10.00	36.84	4,778.4	601.2	450.5	751.2	0.00	0.00	Start Drop -3.00
4,900.0	8.30	36.84	4,834.4	608.4	455.9	760.2	3.00	-3.00	
5,000.0	5.30	36.84	4,933.7	617.8	463.0	772.0	3.00	-3.00	
5,100.0	2.30	36.84	5,033.5	623.1	466.9	778.7	3.00	-3.00	EOD; INC=0° - Top of Gas - 2/3-14-22 TOG
5,176.5	0.00	0.00	5,110.0	624.4	467.8	780.2	3.00	-3.00	
5,200.0	0.00	0.00	5,133.5	624.4	467.8	780.2	0.00	0.00	
5,300.0	0.00	0.00	5,233.5	624.4	467.8	780.2	0.00	0.00	
5,400.0	0.00	0.00	5,333.5	624.4	467.8	780.2	0.00	0.00	
5,500.0	0.00	0.00	5,433.5	624.4	467.8	780.2	0.00	0.00	
5,600.0	0.00	0.00	5,533.5	624.4	467.8	780.2	0.00	0.00	
5,700.0	0.00	0.00	5,633.5	624.4	467.8	780.2	0.00	0.00	
5,800.0	0.00	0.00	5,733.5	624.4	467.8	780.2	0.00	0.00	
5,900.0	0.00	0.00	5,833.5	624.4	467.8	780.2	0.00	0.00	
6,000.0	0.00	0.00	5,933.5	624.4	467.8	780.2	0.00	0.00	
6,100.0	0.00	0.00	6,033.5	624.4	467.8	780.2	0.00	0.00	
6,200.0	0.00	0.00	6,133.5	624.4	467.8	780.2	0.00	0.00	
6,300.0	0.00	0.00	6,233.5	624.4	467.8	780.2	0.00	0.00	
6,400.0	0.00	0.00	6,333.5	624.4	467.8	780.2	0.00	0.00	
6,500.0	0.00	0.00	6,433.5	624.4	467.8	780.2	0.00	0.00	
6,600.0	0.00	0.00	6,533.5	624.4	467.8	780.2	0.00	0.00	
6,700.0	0.00	0.00	6,633.5	624.4	467.8	780.2	0.00	0.00	
6,800.0	0.00	0.00	6,733.5	624.4	467.8	780.2	0.00	0.00	
6,900.0	0.00	0.00	6,833.5	624.4	467.8	780.2	0.00	0.00	
7,000.0	0.00	0.00	6,933.5	624.4	467.8	780.2	0.00	0.00	
7,100.0	0.00	0.00	7,033.5	624.4	467.8	780.2	0.00	0.00	
7,200.0	0.00	0.00	7,133.5	624.4	467.8	780.2	0.00	0.00	
7,300.0	0.00	0.00	7,233.5	624.4	467.8	780.2	0.00	0.00	
7,400.0	0.00	0.00	7,333.5	624.4	467.8	780.2	0.00	0.00	
7,500.0	0.00	0.00	7,433.5	624.4	467.8	780.2	0.00	0.00	
7,600.0	0.00	0.00	7,533.5	624.4	467.8	780.2	0.00	0.00	
7,700.0	0.00	0.00	7,633.5	624.4	467.8	780.2	0.00	0.00	
7,774.5	0.00	0.00	7,708.0	624.4	467.8	780.2	0.00	0.00	
7,800.0	0.00	0.00	7,733.5	624.4	467.8	780.2	0.00	0.00	
7,900.0	0.00	0.00	7,833.5	624.4	467.8	780.2	0.00	0.00	Cameo
8,000.0	0.00	0.00	7,933.5	624.4	467.8	780.2	0.00	0.00	
8,038.5	0.00	0.00	7,972.0	624.4	467.8	780.2	0.00	0.00	
8,100.0	0.00	0.00	8,033.5	624.4	467.8	780.2	0.00	0.00	Rollins
8,141.5	0.00	0.00	8,075.0	624.4	467.8	780.2	0.00	0.00	
									TD at 8141.5

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									
2/3-14-22 TOG	0.00	0.00	5,110.0	624.4	467.8	1,070,574.18	2,422,340.08	39.508766	-107.547376
- plan hits target center									
- Circle (radius 75.0)									

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Federal 2/3-14-22
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 2/3-14-22	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #1		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
4,704.8	4,642.0	Williams Fork				
5,176.5	5,110.0	Top of Gas				
7,774.5	7,708.0	Cameo				
8,038.5	7,972.0	Rollins				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
350.0	350.0	0.0	0.0	KOP @ 350'	
683.2	681.6	23.2	17.4	EOB; INC=10°	
4,843.3	4,778.4	601.2	450.5	Start Drop -3.00	
5,176.5	5,110.0	624.4	467.8	EOD; INC=0°	
8,141.5	8,075.0	624.4	467.8	TD at 8141.5	

Coachman Energy Operating Company, LLC

Garfield County, CO

S22-T6S-R91W

Federal 2/3-14-22

DD

Plan #1

Anticollision Report

16 March, 2015

Anticollision Report

Company:	Coachman Energy Operating Company, LLC	Local Co-ordinate Reference:	Well Federal 2/3-14-22
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 2/3-14-22	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	8,141.5	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	44.8	44.2	72.772	CC, ES
Federal 2/3-11-22 - DD - Plan #1	8,141.5	8,364.2	986.6	944.1	23.252	SF
Federal 2/3-12-22 - DD - Plan #1	233.4	233.4	29.9	29.1	38.996	CC, ES
Federal 2/3-12-22 - DD - Plan #1	8,141.5	8,269.0	657.6	615.9	15.756	SF
Federal 2/3-13-22 - DD - Plan #1	300.0	300.0	14.9	13.9	14.021	CC, ES
Federal 2/3-13-22 - DD - Plan #1	8,141.5	8,194.6	328.6	287.5	7.995	SF
Federal 2/3-15-22 - DD - Plan #1	416.8	417.2	14.1	12.5	8.854	CC, ES
Federal 2/3-15-22 - DD - Plan #1	600.0	600.5	18.2	15.7	7.263	SF
Federal 2/3-16-22 - DD - Plan #1	300.0	300.0	30.2	29.2	28.390	CC
Federal 2/3-16-22 - DD - Plan #1	350.0	350.0	30.3	29.0	23.554	ES
Federal 2/3-16-22 - DD - Plan #1	8,141.5	8,099.8	658.0	618.1	16.503	SF
Federal 6/7-13-22 - DD - Plan #1	233.5	233.5	26.9	26.2	35.135	CC, ES
Federal 6/7-13-22 - DD - Plan #1	700.0	691.3	46.7	43.6	15.114	SF
Federal 6/7-14-22 - DD - Plan #1	200.0	200.0	16.8	16.2	27.276	CC, ES
Federal 6/7-14-22 - DD - Plan #1	500.0	495.6	35.0	33.0	17.246	SF
Federal 6/7-15-22 - DD - Plan #1	233.8	233.8	16.9	16.1	21.992	CC, ES
Federal 6/7-15-22 - DD - Plan #1	400.0	398.7	21.6	20.1	14.365	SF
Federal 6/7-16-22 - DD - Plan #1	200.0	200.0	27.1	26.5	44.010	CC, ES
Federal 6/7-16-22 - DD - Plan #1	500.0	495.7	44.1	42.1	22.000	SF

Anticollision Report

Company:	Coachman Energy Operating Company, LLC	Local Co-ordinate Reference:	Well Federal 2/3-14-22
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 2/3-14-22	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-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	44.8	-0.8	44.8						
100.0	100.0	100.0	100.0	0.1	0.1	-1.08	44.8	-0.8	44.8	44.7	0.17	269.454			
200.0	200.0	200.0	200.0	0.3	0.3	-1.08	44.8	-0.8	44.8	44.2	0.62	72.772 CC, ES			
300.0	300.0	297.7	297.7	0.5	0.5	-0.18	47.2	-0.2	47.3	46.2	1.06	44.415			
350.0	350.0	346.4	346.3	0.6	0.7	0.81	50.2	0.7	50.3	49.0	1.30	38.774			
400.0	400.0	395.0	394.7	0.8	0.8	-35.15	54.4	1.9	54.1	52.6	1.54	35.127			
500.0	499.8	491.8	490.7	1.0	1.0	-34.86	66.2	5.3	62.2	60.1	2.04	30.436			
600.0	599.3	588.2	585.5	1.2	1.4	-35.98	82.6	10.1	70.9	68.3	2.58	27.485			
683.2	681.6	668.0	663.4	1.5	1.7	-37.60	99.6	15.0	78.6	75.5	3.05	25.733			
700.0	698.1	684.1	678.9	1.5	1.8	-37.98	103.4	16.1	80.3	77.1	3.14	25.539			
800.0	796.5	779.1	770.3	1.9	2.2	-39.38	128.5	23.4	93.1	89.4	3.72	25.054			
900.0	895.0	872.9	859.1	2.2	2.8	-39.58	157.5	31.7	110.5	106.2	4.33	25.539			
1,000.0	993.5	968.7	948.4	2.6	3.4	-39.17	190.5	41.3	131.6	126.7	4.96	26.518			
1,100.0	1,092.0	1,066.3	1,039.5	3.0	4.1	-38.83	224.5	51.1	153.1	147.4	5.62	27.257			
1,200.0	1,190.5	1,164.0	1,130.5	3.3	4.7	-38.56	258.5	61.0	174.5	168.2	6.26	27.873			
1,300.0	1,288.9	1,261.7	1,221.5	3.7	5.4	-38.36	292.5	70.8	195.9	189.0	6.92	28.307			
1,400.0	1,387.4	1,359.3	1,312.6	4.1	6.1	-38.20	326.5	80.6	217.4	209.8	7.59	28.653			
1,500.0	1,485.9	1,457.0	1,403.6	4.5	6.8	-38.06	360.5	90.5	238.8	230.5	8.25	28.931			
1,600.0	1,584.4	1,554.7	1,494.7	4.8	7.4	-37.95	394.5	100.3	260.2	251.3	8.92	29.159			
1,700.0	1,682.9	1,652.4	1,585.7	5.2	8.1	-37.86	428.5	110.1	281.7	272.1	9.60	29.349			
1,800.0	1,781.4	1,750.0	1,676.7	5.6	8.8	-37.77	462.5	119.9	303.1	292.8	10.27	29.510			
1,900.0	1,879.8	1,847.7	1,767.8	6.0	9.5	-37.70	496.5	129.8	324.5	313.6	10.95	29.648			
2,000.0	1,978.3	1,945.4	1,858.8	6.4	10.2	-37.64	530.5	139.6	346.0	334.4	11.62	29.768			
2,100.0	2,076.8	2,043.1	1,949.8	6.8	10.9	-37.59	564.5	149.4	367.4	355.1	12.30	29.874			
2,200.0	2,175.3	2,140.7	2,040.9	7.2	11.5	-37.54	598.5	159.3	388.9	375.9	12.98	29.967			
2,300.0	2,273.8	2,238.4	2,131.9	7.5	12.2	-37.49	632.5	169.1	410.3	396.7	13.65	30.051			
2,400.0	2,372.2	2,336.1	2,223.0	7.9	12.9	-37.45	666.5	178.9	431.8	417.4	14.33	30.126			
2,500.0	2,470.7	2,433.8	2,314.0	8.3	13.6	-37.42	700.5	188.8	453.2	438.2	15.01	30.194			
2,600.0	2,569.2	2,531.4	2,405.0	8.7	14.3	-37.39	734.5	198.6	474.6	459.0	15.69	30.256			
2,700.0	2,667.7	2,629.1	2,496.1	9.1	15.0	-37.36	768.5	208.4	496.1	479.7	16.36	30.314			
2,800.0	2,766.2	2,726.8	2,587.1	9.5	15.7	-37.33	802.5	218.3	517.5	500.5	17.04	30.367			
2,900.0	2,864.7	2,824.5	2,678.1	9.9	16.3	-37.30	836.5	228.1	539.0	521.2	17.72	30.416			
3,000.0	2,963.1	2,922.1	2,769.2	10.3	17.0	-37.28	870.4	237.9	560.4	542.0	18.40	30.462			
3,100.0	3,061.6	3,019.8	2,860.2	10.6	17.7	-37.26	904.4	247.7	581.9	562.8	19.07	30.505			
3,200.0	3,160.1	3,117.5	2,951.3	11.0	18.4	-37.24	938.4	257.6	603.3	583.5	19.75	30.545			
3,300.0	3,258.6	3,215.1	3,042.3	11.4	19.1	-37.22	972.4	267.4	624.7	604.3	20.43	30.584			
3,400.0	3,357.1	3,312.8	3,133.3	11.8	19.8	-37.20	1,006.4	277.2	646.2	625.1	21.10	30.620			
3,500.0	3,455.5	3,410.5	3,224.4	12.2	20.5	-37.19	1,040.4	287.1	667.6	645.8	21.78	30.654			
3,600.0	3,554.0	3,508.2	3,315.4	12.6	21.1	-37.17	1,074.4	296.9	689.1	666.6	22.45	30.687			
3,700.0	3,652.5	3,605.8	3,406.4	13.0	21.8	-37.16	1,108.4	306.7	710.5	687.4	23.13	30.718			
3,800.0	3,751.0	3,703.5	3,497.5	13.4	22.5	-37.14	1,142.4	316.6	732.0	708.1	23.80	30.749			
3,900.0	3,849.5	3,801.2	3,588.5	13.8	23.2	-37.13	1,176.4	326.4	753.4	728.9	24.48	30.778			
4,000.0	3,947.9	3,898.9	3,679.6	14.1	23.9	-37.12	1,210.4	336.2	774.8	749.7	25.15	30.805			
4,100.0	4,046.4	3,996.5	3,770.6	14.5	24.6	-37.11	1,244.4	346.1	796.3	770.5	25.83	30.832			
4,200.0	4,144.9	4,094.2	3,861.6	14.9	25.3	-37.10	1,278.4	355.9	817.7	791.2	26.50	30.858			
4,300.0	4,243.4	4,191.9	3,952.7	15.3	26.0	-37.09	1,312.4	365.7	839.2	812.0	27.17	30.883			
4,400.0	4,341.9	4,289.6	4,043.7	15.7	26.6	-37.08	1,346.4	375.6	860.6	832.8	27.84	30.908			
4,500.0	4,440.4	4,387.2	4,134.7	16.1	27.3	-37.07	1,380.4	385.4	882.1	853.5	28.52	30.932			
4,600.0	4,538.8	4,484.9	4,225.8	16.5	28.0	-37.06	1,414.4	395.2	903.5	874.3	29.19	30.955			
4,700.0	4,637.3	4,582.6	4,316.8	16.9	28.7	-37.05	1,448.4	405.0	924.9	895.1	29.86	30.977			
4,800.0	4,735.8	4,680.3	4,407.9	17.3	29.4	-37.04	1,482.4	414.9	946.4	915.9	30.53	30.999			
4,843.3	4,778.4	4,751.3	4,474.4	17.4	29.8	-37.06	1,506.2	421.8	955.2	924.3	30.89	30.920			

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 2/3-14-22
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 2/3-14-22	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-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	4,834.4	4,858.9	4,576.9	17.6	30.3	-37.28	1,537.9	430.9	964.8	933.5	31.33	30.794		
5,000.0	4,933.7	5,052.0	4,764.7	17.9	31.0	-37.57	1,580.6	443.3	977.6	945.7	31.92	30.629		
5,100.0	5,033.5	5,248.1	4,959.1	18.0	31.5	-37.73	1,605.1	450.4	984.9	952.6	32.29	30.497		
5,176.5	5,110.0	5,399.2	5,110.0	18.1	31.7	-0.92	1,610.8	452.0	986.6	954.1	32.43	30.418		
5,200.0	5,133.5	5,422.7	5,133.5	18.2	31.7	-0.92	1,610.8	452.0	986.6	954.1	32.50	30.359		
5,300.0	5,233.5	5,522.7	5,233.5	18.3	31.8	-0.92	1,610.8	452.0	986.6	953.8	32.79	30.090		
5,400.0	5,333.5	5,622.7	5,333.5	18.4	31.9	-0.92	1,610.8	452.0	986.6	953.5	33.09	29.813		
5,500.0	5,433.5	5,722.7	5,433.5	18.6	31.9	-0.92	1,610.8	452.0	986.6	953.2	33.40	29.539		
5,600.0	5,533.5	5,822.7	5,533.5	18.7	32.0	-0.92	1,610.8	452.0	986.6	952.9	33.71	29.267		
5,700.0	5,633.5	5,922.7	5,633.5	18.9	32.1	-0.92	1,610.8	452.0	986.6	952.5	34.02	28.998		
5,800.0	5,733.5	6,022.7	5,733.5	19.0	32.2	-0.92	1,610.8	452.0	986.6	952.2	34.34	28.730		
5,900.0	5,833.5	6,122.7	5,833.5	19.2	32.3	-0.92	1,610.8	452.0	986.6	951.9	34.66	28.466		
6,000.0	5,933.5	6,222.7	5,933.5	19.3	32.3	-0.92	1,610.8	452.0	986.6	951.6	34.98	28.204		
6,100.0	6,033.5	6,322.7	6,033.5	19.4	32.4	-0.92	1,610.8	452.0	986.6	951.3	35.30	27.944		
6,200.0	6,133.5	6,422.7	6,133.5	19.6	32.5	-0.92	1,610.8	452.0	986.6	950.9	35.63	27.687		
6,300.0	6,233.5	6,522.7	6,233.5	19.7	32.6	-0.92	1,610.8	452.0	986.6	950.6	35.96	27.433		
6,400.0	6,333.5	6,622.7	6,333.5	19.9	32.7	-0.92	1,610.8	452.0	986.6	950.3	36.29	27.182		
6,500.0	6,433.5	6,722.7	6,433.5	20.0	32.8	-0.92	1,610.8	452.0	986.6	949.9	36.63	26.933		
6,600.0	6,533.5	6,822.7	6,533.5	20.2	32.9	-0.92	1,610.8	452.0	986.6	949.6	36.97	26.687		
6,700.0	6,633.5	6,922.7	6,633.5	20.4	32.9	-0.92	1,610.8	452.0	986.6	949.3	37.31	26.444		
6,800.0	6,733.5	7,022.7	6,733.5	20.5	33.0	-0.92	1,610.8	452.0	986.6	948.9	37.65	26.204		
6,900.0	6,833.5	7,122.7	6,833.5	20.7	33.1	-0.92	1,610.8	452.0	986.6	948.6	37.99	25.967		
7,000.0	6,933.5	7,222.7	6,933.5	20.8	33.2	-0.92	1,610.8	452.0	986.6	948.2	38.34	25.732		
7,100.0	7,033.5	7,322.7	7,033.5	21.0	33.3	-0.92	1,610.8	452.0	986.6	947.9	38.69	25.500		
7,200.0	7,133.5	7,422.7	7,133.5	21.2	33.4	-0.92	1,610.8	452.0	986.6	947.5	39.04	25.271		
7,300.0	7,233.5	7,522.7	7,233.5	21.3	33.5	-0.92	1,610.8	452.0	986.6	947.2	39.39	25.045		
7,400.0	7,333.5	7,622.7	7,333.5	21.5	33.6	-0.92	1,610.8	452.0	986.6	946.8	39.75	24.822		
7,500.0	7,433.5	7,722.7	7,433.5	21.6	33.7	-0.92	1,610.8	452.0	986.6	946.5	40.10	24.601		
7,600.0	7,533.5	7,822.7	7,533.5	21.8	33.8	-0.92	1,610.8	452.0	986.6	946.1	40.46	24.383		
7,700.0	7,633.5	7,922.7	7,633.5	22.0	33.9	-0.92	1,610.8	452.0	986.6	945.7	40.82	24.168		
7,800.0	7,733.5	8,022.7	7,733.5	22.1	34.0	-0.92	1,610.8	452.0	986.6	945.4	41.18	23.956		
7,900.0	7,833.5	8,122.7	7,833.5	22.3	34.1	-0.92	1,610.8	452.0	986.6	945.0	41.55	23.747		
8,000.0	7,933.5	8,222.7	7,933.5	22.5	34.2	-0.92	1,610.8	452.0	986.6	944.7	41.91	23.540		
8,100.0	8,033.5	8,322.7	8,033.5	22.7	34.4	-0.92	1,610.8	452.0	986.6	944.3	42.28	23.336		
8,141.5	8,075.0	8,364.2	8,075.0	22.7	34.4	-0.92	1,610.8	452.0	986.6	944.1	42.43	23.252 SF		

Anticollision Report

Company:	Coachman Energy Operating Company, LLC	Local Co-ordinate Reference:	Well Federal 2/3-14-22
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 2/3-14-22	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-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		
233.4	233.4	233.4	233.4	0.4	0.4	-1.08	29.9	-0.6	29.9	29.1	0.77	38.996	CC, ES	
300.0	300.0	299.3	299.3	0.5	0.5	-0.65	30.5	-0.3	30.5	29.4	1.06	28.643		
350.0	350.0	348.5	348.4	0.6	0.6	0.55	32.3	0.3	32.3	31.0	1.29	24.995		
400.0	400.0	397.6	397.4	0.8	0.8	-35.14	35.2	1.4	34.8	33.3	1.53	22.785		
500.0	499.8	495.6	494.9	1.0	1.0	-34.72	44.7	4.9	40.3	38.3	2.03	19.877		
600.0	599.3	593.3	591.5	1.2	1.3	-36.07	58.8	10.0	46.4	43.8	2.56	18.128		
683.2	681.6	674.4	670.9	1.5	1.6	-38.04	74.0	15.6	51.9	48.9	3.03	17.128		
700.0	698.1	690.7	686.8	1.5	1.7	-38.48	77.4	16.8	53.1	50.0	3.12	17.041		
800.0	796.5	787.5	780.4	1.9	2.1	-39.63	100.4	25.2	63.2	59.6	3.69	17.151		
900.0	895.0	885.2	873.9	2.2	2.6	-39.23	127.4	35.1	77.2	72.9	4.30	17.962		
1,000.0	993.5	984.2	968.4	2.6	3.2	-38.85	155.0	45.2	91.5	86.6	4.91	18.618		
1,100.0	1,092.0	1,083.2	1,062.8	3.0	3.7	-38.57	182.7	55.3	105.8	100.3	5.54	19.088		
1,200.0	1,190.5	1,182.1	1,157.3	3.3	4.3	-38.36	210.3	65.4	120.1	114.0	6.18	19.452		
1,300.0	1,288.9	1,281.1	1,251.8	3.7	4.9	-38.19	238.0	75.5	134.5	127.6	6.82	19.711		
1,400.0	1,387.4	1,380.1	1,346.3	4.1	5.4	-38.06	265.6	85.6	148.8	141.3	7.47	19.921		
1,500.0	1,485.9	1,479.1	1,440.8	4.5	6.0	-37.94	293.3	95.7	163.1	155.0	8.12	20.090		
1,600.0	1,584.4	1,578.0	1,535.3	4.8	6.6	-37.85	320.9	105.8	177.4	168.7	8.77	20.229		
1,700.0	1,682.9	1,677.0	1,629.8	5.2	7.2	-37.77	348.6	115.9	191.7	182.3	9.42	20.345		
1,800.0	1,781.4	1,776.0	1,724.3	5.6	7.8	-37.70	376.2	126.0	206.1	196.0	10.08	20.443		
1,900.0	1,879.8	1,874.9	1,818.8	6.0	8.3	-37.64	403.9	136.1	220.4	209.7	10.74	20.527		
2,000.0	1,978.3	1,973.9	1,913.2	6.4	8.9	-37.59	431.5	146.3	234.7	223.3	11.39	20.600		
2,100.0	2,076.8	2,072.9	2,007.7	6.8	9.5	-37.55	459.2	156.4	249.0	237.0	12.05	20.664		
2,200.0	2,175.3	2,171.8	2,102.2	7.2	10.1	-37.50	486.8	166.5	263.4	250.7	12.71	20.720		
2,300.0	2,273.8	2,270.8	2,196.7	7.5	10.7	-37.47	514.5	176.6	277.7	264.3	13.37	20.771		
2,400.0	2,372.2	2,369.8	2,291.2	7.9	11.2	-37.43	542.1	186.7	292.0	278.0	14.03	20.816		
2,500.0	2,470.7	2,468.7	2,385.7	8.3	11.8	-37.40	569.8	196.8	306.3	291.7	14.69	20.857		
2,600.0	2,569.2	2,567.7	2,480.2	8.7	12.4	-37.38	597.4	206.9	320.7	305.3	15.35	20.895		
2,700.0	2,667.7	2,666.7	2,574.7	9.1	13.0	-37.35	625.1	217.0	335.0	319.0	16.01	20.929		
2,800.0	2,766.2	2,765.6	2,669.2	9.5	13.6	-37.33	652.7	227.1	349.3	332.7	16.67	20.961		
2,900.0	2,864.7	2,864.6	2,763.7	9.9	14.2	-37.31	680.4	237.2	363.6	346.3	17.32	20.990		
3,000.0	2,963.1	2,963.6	2,858.1	10.3	14.8	-37.29	708.0	247.3	378.0	360.0	17.98	21.017		
3,100.0	3,061.6	3,062.6	2,952.6	10.6	15.3	-37.27	735.6	257.4	392.3	373.7	18.64	21.043		
3,200.0	3,160.1	3,161.5	3,047.1	11.0	15.9	-37.25	763.3	267.5	406.6	387.3	19.30	21.067		
3,300.0	3,258.6	3,260.5	3,141.6	11.4	16.5	-37.24	790.9	277.6	421.0	401.0	19.96	21.089		
3,400.0	3,357.1	3,359.5	3,236.1	11.8	17.1	-37.22	818.6	287.8	435.3	414.7	20.62	21.110		
3,500.0	3,455.5	3,458.4	3,330.6	12.2	17.7	-37.21	846.2	297.9	449.6	428.3	21.28	21.131		
3,600.0	3,554.0	3,557.4	3,425.1	12.6	18.3	-37.19	873.9	308.0	463.9	442.0	21.94	21.150		
3,700.0	3,652.5	3,656.4	3,519.6	13.0	18.8	-37.18	901.5	318.1	478.3	455.7	22.59	21.168		
3,800.0	3,751.0	3,755.3	3,614.1	13.4	19.4	-37.17	929.2	328.2	492.6	469.3	23.25	21.185		
3,900.0	3,849.5	3,854.3	3,708.5	13.8	20.0	-37.16	956.8	338.3	506.9	483.0	23.91	21.202		
4,000.0	3,947.9	3,953.3	3,803.0	14.1	20.6	-37.15	984.5	348.4	521.2	496.7	24.57	21.218		
4,100.0	4,046.4	4,052.2	3,897.5	14.5	21.2	-37.14	1,012.1	358.5	535.6	510.3	25.22	21.233		
4,200.0	4,144.9	4,151.2	3,992.0	14.9	21.8	-37.13	1,039.8	368.6	549.9	524.0	25.88	21.248		
4,300.0	4,243.4	4,250.2	4,086.5	15.3	22.4	-37.12	1,067.4	378.7	564.2	537.7	26.54	21.262		
4,400.0	4,341.9	4,349.1	4,181.0	15.7	22.9	-37.11	1,095.1	388.8	578.5	551.3	27.19	21.276		
4,500.0	4,440.4	4,448.1	4,275.5	16.1	23.5	-37.11	1,122.7	398.9	592.9	565.0	27.85	21.290		
4,600.0	4,538.8	4,547.1	4,370.0	16.5	24.1	-37.10	1,150.4	409.0	607.2	578.7	28.50	21.303		
4,700.0	4,637.3	4,646.0	4,464.5	16.9	24.7	-37.09	1,178.0	419.1	621.5	592.4	29.16	21.315		
4,800.0	4,735.8	4,753.1	4,566.7	17.3	25.3	-37.09	1,207.8	430.0	635.7	605.9	29.83	21.310		

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 2/3-14-22
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 2/3-14-22	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-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		
4,843.3	4,778.4	4,815.6	4,626.9	17.4	25.6	-37.15	1,223.6	435.8	640.7	610.6	30.17	21.240		
4,900.0	4,834.4	4,898.0	4,707.1	17.6	25.9	-37.34	1,241.5	442.3	645.9	615.4	30.53	21.160		
5,000.0	4,933.7	5,044.2	4,851.0	17.9	26.4	-37.60	1,265.3	451.1	652.8	621.8	31.00	21.060		
5,100.0	5,033.5	5,191.2	4,997.3	18.0	26.7	-37.75	1,278.8	456.0	656.7	625.4	31.31	20.971		
5,176.5	5,110.0	5,304.0	5,110.0	18.1	26.8	-0.94	1,281.9	457.1	657.6	626.2	31.44	20.914		
5,200.0	5,133.5	5,327.4	5,133.5	18.2	26.8	-0.94	1,281.9	457.1	657.6	626.1	31.51	20.870		
5,300.0	5,233.5	5,427.4	5,233.5	18.3	26.9	-0.94	1,281.9	457.1	657.6	625.8	31.81	20.673		
5,400.0	5,333.5	5,527.4	5,333.5	18.4	27.0	-0.94	1,281.9	457.1	657.6	625.5	32.13	20.470		
5,500.0	5,433.5	5,627.4	5,433.5	18.6	27.1	-0.94	1,281.9	457.1	657.6	625.2	32.44	20.269		
5,600.0	5,533.5	5,727.4	5,533.5	18.7	27.2	-0.94	1,281.9	457.1	657.6	624.8	32.77	20.070		
5,700.0	5,633.5	5,827.4	5,633.5	18.9	27.3	-0.94	1,281.9	457.1	657.6	624.5	33.09	19.873		
5,800.0	5,733.5	5,927.4	5,733.5	19.0	27.4	-0.94	1,281.9	457.1	657.6	624.2	33.42	19.678		
5,900.0	5,833.5	6,027.4	5,833.5	19.2	27.5	-0.94	1,281.9	457.1	657.6	623.8	33.75	19.485		
6,000.0	5,933.5	6,127.4	5,933.5	19.3	27.6	-0.94	1,281.9	457.1	657.6	623.5	34.08	19.295		
6,100.0	6,033.5	6,227.4	6,033.5	19.4	27.7	-0.94	1,281.9	457.1	657.6	623.2	34.42	19.107		
6,200.0	6,133.5	6,327.4	6,133.5	19.6	27.8	-0.94	1,281.9	457.1	657.6	622.8	34.75	18.921		
6,300.0	6,233.5	6,427.4	6,233.5	19.7	27.9	-0.94	1,281.9	457.1	657.6	622.5	35.10	18.737		
6,400.0	6,333.5	6,527.4	6,333.5	19.9	28.0	-0.94	1,281.9	457.1	657.6	622.2	35.44	18.556		
6,500.0	6,433.5	6,627.4	6,433.5	20.0	28.1	-0.94	1,281.9	457.1	657.6	621.8	35.78	18.377		
6,600.0	6,533.5	6,727.4	6,533.5	20.2	28.2	-0.94	1,281.9	457.1	657.6	621.5	36.13	18.200		
6,700.0	6,633.5	6,827.4	6,633.5	20.4	28.3	-0.94	1,281.9	457.1	657.6	621.1	36.48	18.025		
6,800.0	6,733.5	6,927.4	6,733.5	20.5	28.4	-0.94	1,281.9	457.1	657.6	620.8	36.83	17.853		
6,900.0	6,833.5	7,027.4	6,833.5	20.7	28.5	-0.94	1,281.9	457.1	657.6	620.4	37.19	17.683		
7,000.0	6,933.5	7,127.4	6,933.5	20.8	28.6	-0.94	1,281.9	457.1	657.6	620.1	37.54	17.515		
7,100.0	7,033.5	7,227.4	7,033.5	21.0	28.7	-0.94	1,281.9	457.1	657.6	619.7	37.90	17.350		
7,200.0	7,133.5	7,327.4	7,133.5	21.2	28.8	-0.94	1,281.9	457.1	657.6	619.3	38.26	17.187		
7,300.0	7,233.5	7,427.4	7,233.5	21.3	29.0	-0.94	1,281.9	457.1	657.6	619.0	38.62	17.026		
7,400.0	7,333.5	7,527.4	7,333.5	21.5	29.1	-0.94	1,281.9	457.1	657.6	618.6	38.99	16.867		
7,500.0	7,433.5	7,627.4	7,433.5	21.6	29.2	-0.94	1,281.9	457.1	657.6	618.2	39.35	16.710		
7,600.0	7,533.5	7,727.4	7,533.5	21.8	29.3	-0.94	1,281.9	457.1	657.6	617.9	39.72	16.556		
7,700.0	7,633.5	7,827.4	7,633.5	22.0	29.4	-0.94	1,281.9	457.1	657.6	617.5	40.09	16.403		
7,800.0	7,733.5	7,927.4	7,733.5	22.1	29.6	-0.94	1,281.9	457.1	657.6	617.1	40.46	16.253		
7,900.0	7,833.5	8,027.4	7,833.5	22.3	29.7	-0.94	1,281.9	457.1	657.6	616.8	40.83	16.105		
8,000.0	7,933.5	8,127.4	7,933.5	22.5	29.8	-0.94	1,281.9	457.1	657.6	616.4	41.21	15.959		
8,100.0	8,033.5	8,227.4	8,033.5	22.7	29.9	-0.94	1,281.9	457.1	657.6	616.0	41.58	15.815		
8,141.5	8,075.0	8,269.0	8,075.0	22.7	30.0	-0.94	1,281.9	457.1	657.6	615.9	41.74	15.756 SF		

Anticollision Report

Company:	Coachman Energy Operating Company, LLC	Local Co-ordinate Reference:	Well Federal 2/3-14-22
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 2/3-14-22	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-ISCWSA MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Between Centres (usft)	Between Ellipses (usft)						
0.0	0.0	0.0	0.0	0.0	0.0	-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		
300.0	300.0	300.0	300.0	0.5	0.5	-1.08	14.9	-0.3	14.9	13.9	1.07	14.021	CC, ES	
350.0	350.0	349.6	349.6	0.6	0.6	0.01	15.5	0.0	15.5	14.2	1.29	12.026		
400.0	400.0	399.2	399.2	0.8	0.8	-35.22	17.2	0.9	16.7	15.2	1.52	11.007		
500.0	499.8	498.3	498.0	1.0	1.0	-34.50	24.2	4.3	19.6	17.5	2.02	9.694		
600.0	599.3	597.3	596.1	1.2	1.3	-36.11	35.6	9.9	22.8	20.3	2.54	8.966		
683.2	681.6	679.6	677.1	1.5	1.5	-38.51	48.6	16.3	25.9	22.8	3.01	8.585		
700.0	698.1	696.1	693.3	1.5	1.6	-38.99	51.6	17.8	26.6	23.5	3.10	8.576		
800.0	796.5	795.2	789.8	1.9	2.0	-39.17	71.7	27.7	33.0	29.4	3.66	9.020		
900.0	895.0	894.9	886.8	2.2	2.4	-38.76	92.6	38.0	40.2	35.9	4.25	9.458		
1,000.0	993.5	994.7	983.8	2.6	2.9	-38.48	113.5	48.3	47.3	42.5	4.85	9.759		
1,100.0	1,092.0	1,094.4	1,080.8	3.0	3.3	-38.27	134.3	58.6	54.4	49.0	5.46	9.975		
1,200.0	1,190.5	1,194.2	1,177.7	3.3	3.8	-38.11	155.2	68.9	61.6	55.5	6.08	10.137		
1,300.0	1,288.9	1,293.9	1,274.7	3.7	4.3	-37.99	176.1	79.2	68.7	62.0	6.70	10.258		
1,400.0	1,387.4	1,393.7	1,371.7	4.1	4.7	-37.88	197.0	89.5	75.9	68.5	7.33	10.355		
1,500.0	1,485.9	1,493.4	1,468.7	4.5	5.2	-37.80	217.8	99.8	83.0	75.1	7.96	10.432		
1,600.0	1,584.4	1,593.1	1,565.7	4.8	5.7	-37.73	238.7	110.1	90.1	81.6	8.59	10.495		
1,700.0	1,682.9	1,692.9	1,662.7	5.2	6.2	-37.67	259.6	120.4	97.3	88.1	9.22	10.548		
1,800.0	1,781.4	1,792.6	1,759.7	5.6	6.6	-37.61	280.5	130.7	104.4	94.6	9.86	10.592		
1,900.0	1,879.8	1,892.4	1,856.7	6.0	7.1	-37.57	301.3	141.0	111.6	101.1	10.50	10.630		
2,000.0	1,978.3	1,992.1	1,953.7	6.4	7.6	-37.53	322.2	151.3	118.7	107.6	11.13	10.663		
2,100.0	2,076.8	2,091.9	2,050.7	6.8	8.1	-37.49	343.1	161.6	125.9	114.1	11.77	10.692		
2,200.0	2,175.3	2,191.6	2,147.6	7.2	8.6	-37.46	364.0	171.9	133.0	120.6	12.41	10.717		
2,300.0	2,273.8	2,291.4	2,244.6	7.5	9.0	-37.43	384.9	182.2	140.1	127.1	13.05	10.739		
2,400.0	2,372.2	2,391.1	2,341.6	7.9	9.5	-37.40	405.7	192.5	147.3	133.6	13.69	10.759		
2,500.0	2,470.7	2,490.8	2,438.6	8.3	10.0	-37.38	426.6	202.8	154.4	140.1	14.33	10.777		
2,600.0	2,569.2	2,590.6	2,535.6	8.7	10.5	-37.36	447.5	213.1	161.6	146.6	14.97	10.794		
2,700.0	2,667.7	2,690.3	2,632.6	9.1	11.0	-37.34	468.4	223.4	168.7	153.1	15.61	10.809		
2,800.0	2,766.2	2,790.1	2,729.6	9.5	11.4	-37.32	489.2	233.7	175.8	159.6	16.25	10.822		
2,900.0	2,864.7	2,889.8	2,826.6	9.9	11.9	-37.30	510.1	244.0	183.0	166.1	16.89	10.835		
3,000.0	2,963.1	2,989.6	2,923.6	10.3	12.4	-37.29	531.0	254.3	190.1	172.6	17.53	10.846		
3,100.0	3,061.6	3,089.3	3,020.6	10.6	12.9	-37.27	551.9	264.6	197.3	179.1	18.17	10.857		
3,200.0	3,160.1	3,189.1	3,117.6	11.0	13.4	-37.26	572.7	274.9	204.4	185.6	18.81	10.867		
3,300.0	3,258.6	3,288.8	3,214.5	11.4	13.9	-37.25	593.6	285.2	211.5	192.1	19.45	10.876		
3,400.0	3,357.1	3,388.5	3,311.5	11.8	14.3	-37.24	614.5	295.5	218.7	198.6	20.09	10.885		
3,500.0	3,455.5	3,488.3	3,408.5	12.2	14.8	-37.23	635.4	305.8	225.8	205.1	20.73	10.893		
3,600.0	3,554.0	3,588.0	3,505.5	12.6	15.3	-37.22	656.2	316.1	233.0	211.6	21.37	10.901		
3,700.0	3,652.5	3,687.8	3,602.5	13.0	15.8	-37.21	677.1	326.4	240.1	218.1	22.01	10.908		
3,800.0	3,751.0	3,787.5	3,699.5	13.4	16.3	-37.20	698.0	336.7	247.2	224.6	22.65	10.915		
3,900.0	3,849.5	3,887.3	3,796.5	13.8	16.7	-37.19	718.9	347.0	254.4	231.1	23.29	10.922		
4,000.0	3,947.9	3,987.0	3,893.5	14.1	17.2	-37.18	739.7	357.3	261.5	237.6	23.93	10.928		
4,100.0	4,046.4	4,086.8	3,990.5	14.5	17.7	-37.17	760.6	367.6	268.7	244.1	24.57	10.934		
4,200.0	4,144.9	4,186.5	4,087.5	14.9	18.2	-37.17	781.5	377.9	275.8	250.6	25.21	10.940		
4,300.0	4,243.4	4,286.2	4,184.4	15.3	18.7	-37.16	802.4	388.2	283.0	257.1	25.85	10.946		
4,400.0	4,341.9	4,386.0	4,281.4	15.7	19.2	-37.15	823.2	398.5	290.1	263.6	26.49	10.951		
4,500.0	4,440.4	4,485.7	4,378.4	16.1	19.6	-37.15	844.1	408.8	297.2	270.1	27.13	10.956		
4,600.0	4,538.8	4,585.5	4,475.4	16.5	20.1	-37.14	865.0	419.1	304.4	276.6	27.77	10.961		
4,700.0	4,637.3	4,685.2	4,572.4	16.9	20.6	-37.14	885.9	429.4	311.5	283.1	28.41	10.966		
4,800.0	4,735.8	4,785.9	4,670.3	17.3	21.1	-37.13	906.9	439.8	318.7	289.6	29.05	10.970		
4,843.3	4,778.4	4,836.7	4,719.9	17.4	21.3	-37.20	916.8	444.7	321.1	291.8	29.33	10.948		

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 2/3-14-22
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 2/3-14-22	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-ISCWSA MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance				Total		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Uncertainty Axis	Separation Factor		
4,900.0	4,834.4	4,903.4	4,785.4	17.6	21.5	-37.38	928.0	450.2	323.4	293.8	29.66	10.905		
5,000.0	4,933.7	5,021.2	4,902.1	17.9	21.8	-37.62	942.8	457.4	326.5	296.4	30.09	10.850		
5,100.0	5,033.5	5,139.2	5,019.7	18.0	22.0	-37.75	951.0	461.5	328.2	297.8	30.39	10.800		
5,176.5	5,110.0	5,229.6	5,110.0	18.1	22.1	-0.94	952.9	462.5	328.6	298.1	30.53	10.763		
5,200.0	5,133.5	5,253.0	5,133.5	18.2	22.2	-0.94	952.9	462.5	328.6	298.0	30.60	10.739		
5,300.0	5,233.5	5,353.0	5,233.5	18.3	22.3	-0.94	952.9	462.5	328.6	297.7	30.92	10.630		
5,400.0	5,333.5	5,453.0	5,333.5	18.4	22.4	-0.94	952.9	462.5	328.6	297.4	31.24	10.519		
5,500.0	5,433.5	5,553.0	5,433.5	18.6	22.5	-0.94	952.9	462.5	328.6	297.0	31.57	10.409		
5,600.0	5,533.5	5,653.0	5,533.5	18.7	22.6	-0.94	952.9	462.5	328.6	296.7	31.90	10.300		
5,700.0	5,633.5	5,753.0	5,633.5	18.9	22.7	-0.94	952.9	462.5	328.6	296.4	32.24	10.193		
5,800.0	5,733.5	5,853.0	5,733.5	19.0	22.8	-0.94	952.9	462.5	328.6	296.0	32.58	10.088		
5,900.0	5,833.5	5,953.0	5,833.5	19.2	23.0	-0.94	952.9	462.5	328.6	295.7	32.92	9.983		
6,000.0	5,933.5	6,053.0	5,933.5	19.3	23.1	-0.94	952.9	462.5	328.6	295.4	33.26	9.880		
6,100.0	6,033.5	6,153.0	6,033.5	19.4	23.2	-0.94	952.9	462.5	328.6	295.0	33.61	9.778		
6,200.0	6,133.5	6,253.0	6,133.5	19.6	23.3	-0.94	952.9	462.5	328.6	294.7	33.95	9.678		
6,300.0	6,233.5	6,353.0	6,233.5	19.7	23.4	-0.94	952.9	462.5	328.6	294.3	34.30	9.579		
6,400.0	6,333.5	6,453.0	6,333.5	19.9	23.6	-0.94	952.9	462.5	328.6	294.0	34.66	9.482		
6,500.0	6,433.5	6,553.0	6,433.5	20.0	23.7	-0.94	952.9	462.5	328.6	293.6	35.01	9.386		
6,600.0	6,533.5	6,653.0	6,533.5	20.2	23.8	-0.94	952.9	462.5	328.6	293.2	35.37	9.291		
6,700.0	6,633.5	6,753.0	6,633.5	20.4	24.0	-0.94	952.9	462.5	328.6	292.9	35.73	9.198		
6,800.0	6,733.5	6,853.0	6,733.5	20.5	24.1	-0.94	952.9	462.5	328.6	292.5	36.09	9.105		
6,900.0	6,833.5	6,953.0	6,833.5	20.7	24.2	-0.94	952.9	462.5	328.6	292.2	36.45	9.015		
7,000.0	6,933.5	7,053.0	6,933.5	20.8	24.3	-0.94	952.9	462.5	328.6	291.8	36.82	8.925		
7,100.0	7,033.5	7,153.0	7,033.5	21.0	24.5	-0.94	952.9	462.5	328.6	291.4	37.19	8.837		
7,200.0	7,133.5	7,253.0	7,133.5	21.2	24.6	-0.94	952.9	462.5	328.6	291.1	37.55	8.750		
7,300.0	7,233.5	7,353.0	7,233.5	21.3	24.8	-0.94	952.9	462.5	328.6	290.7	37.92	8.665		
7,400.0	7,333.5	7,453.0	7,333.5	21.5	24.9	-0.94	952.9	462.5	328.6	290.3	38.30	8.581		
7,500.0	7,433.5	7,553.0	7,433.5	21.6	25.0	-0.94	952.9	462.5	328.6	289.9	38.67	8.498		
7,600.0	7,533.5	7,653.0	7,533.5	21.8	25.2	-0.94	952.9	462.5	328.6	289.6	39.05	8.416		
7,700.0	7,633.5	7,753.0	7,633.5	22.0	25.3	-0.94	952.9	462.5	328.6	289.2	39.42	8.336		
7,800.0	7,733.5	7,853.0	7,733.5	22.1	25.5	-0.94	952.9	462.5	328.6	288.8	39.80	8.256		
7,900.0	7,833.5	7,953.0	7,833.5	22.3	25.6	-0.94	952.9	462.5	328.6	288.4	40.18	8.178		
8,000.0	7,933.5	8,053.0	7,933.5	22.5	25.8	-0.94	952.9	462.5	328.6	288.1	40.56	8.101		
8,100.0	8,033.5	8,153.0	8,033.5	22.7	25.9	-0.94	952.9	462.5	328.6	287.7	40.95	8.026		
8,127.7	8,061.2	8,180.7	8,061.2	22.7	25.9	-0.94	952.9	462.5	328.6	287.6	41.05	8.005		
8,141.5	8,075.0	8,194.6	8,075.0	22.7	26.0	-0.94	952.9	462.5	328.6	287.5	41.10	7.995 SF		

Anticollision Report

Company:	Coachman Energy Operating Company, LLC	Local Co-ordinate Reference:	Well Federal 2/3-14-22
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 2/3-14-22	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-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		
300.0	300.0	300.0	300.0	0.5	0.5	178.92	-14.9	0.3	14.9	13.9	1.07	14.021		
350.0	350.0	350.2	350.2	0.6	0.6	176.72	-14.6	0.8	14.6	13.3	1.29	11.327		
400.0	400.0	400.4	400.3	0.8	0.8	134.67	-13.5	2.5	14.2	12.7	1.52	9.347		
416.8	416.8	417.2	417.1	0.8	0.8	132.62	-13.0	3.3	14.1	12.5	1.60	8.854 CC, ES		
500.0	499.8	500.5	500.2	1.0	1.0	121.37	-9.2	9.1	15.0	13.0	1.99	7.514		
600.0	599.3	600.5	599.4	1.2	1.3	112.38	-2.6	19.1	18.2	15.7	2.51	7.263 SF		
683.2	681.6	683.6	681.9	1.5	1.5	116.07	3.0	27.6	19.7	19.7	3.00	7.546		
700.0	698.1	700.3	698.5	1.5	1.5	117.45	4.1	29.4	23.7	20.6	3.11	7.642		
800.0	796.5	800.0	797.4	1.9	1.8	123.62	10.8	39.6	30.3	26.6	3.71	8.169		
900.0	895.0	899.8	896.4	2.2	2.1	127.56	17.5	49.9	37.2	32.8	4.32	8.603		
1,000.0	993.5	999.5	995.4	2.6	2.5	130.28	24.3	60.1	44.1	39.2	4.92	8.956		
1,100.0	1,092.0	1,099.3	1,094.4	3.0	2.8	132.25	31.0	70.4	51.1	45.6	5.53	9.246		
1,200.0	1,190.5	1,199.0	1,193.4	3.3	3.1	133.74	37.7	80.6	58.2	52.0	6.13	9.485		
1,300.0	1,288.9	1,298.7	1,292.4	3.7	3.4	134.91	44.4	90.9	65.2	58.5	6.74	9.686		
1,400.0	1,387.4	1,398.5	1,391.3	4.1	3.7	135.85	51.1	101.1	72.3	65.0	7.34	9.856		
1,500.0	1,485.9	1,498.2	1,490.3	4.5	4.0	136.62	57.8	111.4	79.5	71.5	7.95	10.002		
1,600.0	1,584.4	1,598.0	1,589.3	4.8	4.3	137.27	64.6	121.6	86.6	78.1	8.55	10.128		
1,700.0	1,682.9	1,697.7	1,688.3	5.2	4.6	137.82	71.3	131.9	93.8	84.6	9.16	10.239		
1,800.0	1,781.4	1,797.4	1,787.3	5.6	5.0	138.29	78.0	142.1	100.9	91.1	9.76	10.336		
1,900.0	1,879.8	1,897.2	1,886.3	6.0	5.3	138.69	84.7	152.4	108.1	97.7	10.37	10.422		
2,000.0	1,978.3	1,996.9	1,985.3	6.4	5.6	139.05	91.4	162.6	115.2	104.3	10.97	10.500		
2,100.0	2,076.8	2,096.7	2,084.2	6.8	5.9	139.36	98.1	172.9	122.4	110.8	11.58	10.569		
2,200.0	2,175.3	2,196.4	2,183.2	7.2	6.2	139.64	104.8	183.1	129.6	117.4	12.19	10.632		
2,300.0	2,273.8	2,296.1	2,282.2	7.5	6.5	139.89	111.6	193.4	136.7	123.9	12.79	10.689		
2,400.0	2,372.2	2,395.9	2,381.2	7.9	6.9	140.12	118.3	203.6	143.9	130.5	13.40	10.741		
2,500.0	2,470.7	2,495.6	2,480.2	8.3	7.2	140.32	125.0	213.9	151.1	137.1	14.00	10.789		
2,600.0	2,569.2	2,595.4	2,579.2	8.7	7.5	140.51	131.7	224.1	158.3	143.7	14.61	10.833		
2,700.0	2,667.7	2,695.1	2,678.2	9.1	7.8	140.68	138.4	234.4	165.4	150.2	15.22	10.873		
2,800.0	2,766.2	2,794.9	2,777.1	9.5	8.1	140.84	145.1	244.6	172.6	156.8	15.82	10.911		
2,900.0	2,864.7	2,894.6	2,876.1	9.9	8.4	140.98	151.9	254.9	179.8	163.4	16.43	10.946		
3,000.0	2,963.1	2,994.3	2,975.1	10.3	8.8	141.11	158.6	265.1	187.0	170.0	17.03	10.978		
3,100.0	3,061.6	3,094.1	3,074.1	10.6	9.1	141.23	165.3	275.4	194.2	176.5	17.64	11.009		
3,200.0	3,160.1	3,193.8	3,173.1	11.0	9.4	141.35	172.0	285.6	201.4	183.1	18.24	11.038		
3,300.0	3,258.6	3,293.6	3,272.1	11.4	9.7	141.45	178.7	295.9	208.6	189.7	18.85	11.065		
3,400.0	3,357.1	3,393.3	3,371.0	11.8	10.0	141.55	185.4	306.2	215.7	196.3	19.45	11.090		
3,500.0	3,455.5	3,493.0	3,470.0	12.2	10.3	141.64	192.2	316.4	222.9	202.9	20.06	11.114		
3,600.0	3,554.0	3,592.8	3,569.0	12.6	10.7	141.73	198.9	326.7	230.1	209.5	20.66	11.136		
3,700.0	3,652.5	3,692.5	3,668.0	13.0	11.0	141.81	205.6	336.9	237.3	216.0	21.27	11.158		
3,800.0	3,751.0	3,792.3	3,767.0	13.4	11.3	141.89	212.3	347.2	244.5	222.6	21.87	11.178		
3,900.0	3,849.5	3,892.0	3,866.0	13.8	11.6	141.96	219.0	357.4	251.7	229.2	22.48	11.197		
4,000.0	3,947.9	3,991.7	3,965.0	14.1	11.9	142.03	225.7	367.7	258.9	235.8	23.08	11.216		
4,100.0	4,046.4	4,091.5	4,063.9	14.5	12.2	142.09	232.5	377.9	266.1	242.4	23.69	11.231		
4,200.0	4,144.9	4,191.2	4,162.9	14.9	12.6	142.15	239.2	388.2	273.3	249.0	24.29	11.250		
4,300.0	4,243.4	4,291.0	4,261.9	15.3	12.9	142.21	245.9	398.4	280.4	255.6	24.89	11.266		
4,400.0	4,341.9	4,390.7	4,360.9	15.7	13.2	142.27	252.6	408.7	287.6	262.1	25.50	11.282		
4,500.0	4,440.4	4,490.4	4,459.9	16.1	13.5	142.32	259.3	418.9	294.8	268.7	26.10	11.296		
4,600.0	4,538.8	4,590.2	4,558.9	16.5	13.8	142.37	266.0	429.2	302.0	275.3	26.70	11.310		
4,700.0	4,637.3	4,689.9	4,657.8	16.9	14.2	142.42	272.7	439.4	309.2	281.9	27.31	11.324		
4,800.0	4,735.8	4,789.7	4,756.8	17.3	14.5	142.46	279.5	449.7	316.4	288.5	27.91	11.337		

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 2/3-14-22
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 2/3-14-22	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)					
4,843.3	4,778.4	4,832.9	4,799.7	17.4	14.6	142.48	282.4	454.1	319.5	291.3	28.17	11.343	
4,900.0	4,834.4	4,889.4	4,855.9	17.6	14.8	142.48	286.2	459.9	322.9	294.4	28.51	11.328	
5,000.0	4,933.7	4,982.6	4,948.5	17.9	15.0	142.24	291.7	468.3	326.5	297.5	28.99	11.264	
5,100.0	5,033.5	5,074.2	5,039.9	18.0	15.2	142.10	294.7	473.0	328.5	299.2	29.32	11.206	
5,176.5	5,110.0	5,144.3	5,110.0	18.1	15.3	178.92	295.4	474.1	329.0	299.5	29.49	11.157	
5,200.0	5,133.5	5,167.8	5,133.5	18.2	15.4	178.92	295.4	474.1	329.0	299.4	29.56	11.131	
5,300.0	5,233.5	5,267.8	5,233.5	18.3	15.5	178.92	295.4	474.1	329.0	299.1	29.89	11.008	
5,400.0	5,333.5	5,367.8	5,333.5	18.4	15.7	178.92	295.4	474.1	329.0	298.8	30.22	10.885	
5,500.0	5,433.5	5,467.8	5,433.5	18.6	15.8	178.92	295.4	474.1	329.0	298.4	30.56	10.764	
5,600.0	5,533.5	5,567.8	5,533.5	18.7	16.0	178.92	295.4	474.1	329.0	298.1	30.91	10.644	
5,700.0	5,633.5	5,667.8	5,633.5	18.9	16.2	178.92	295.4	474.1	329.0	297.7	31.25	10.527	
5,800.0	5,733.5	5,767.8	5,733.5	19.0	16.3	178.92	295.4	474.1	329.0	297.4	31.60	10.410	
5,900.0	5,833.5	5,867.8	5,833.5	19.2	16.5	178.92	295.4	474.1	329.0	297.0	31.95	10.296	
6,000.0	5,933.5	5,967.8	5,933.5	19.3	16.7	178.92	295.4	474.1	329.0	296.7	32.31	10.183	
6,100.0	6,033.5	6,067.8	6,033.5	19.4	16.8	178.92	295.4	474.1	329.0	296.3	32.66	10.072	
6,200.0	6,133.5	6,167.8	6,133.5	19.6	17.0	178.92	295.4	474.1	329.0	296.0	33.02	9.963	
6,300.0	6,233.5	6,267.8	6,233.5	19.7	17.2	178.92	295.4	474.1	329.0	295.6	33.38	9.856	
6,400.0	6,333.5	6,367.8	6,333.5	19.9	17.4	178.92	295.4	474.1	329.0	295.3	33.74	9.750	
6,500.0	6,433.5	6,467.8	6,433.5	20.0	17.5	178.92	295.4	474.1	329.0	294.9	34.11	9.646	
6,600.0	6,533.5	6,567.8	6,533.5	20.2	17.7	178.92	295.4	474.1	329.0	294.5	34.47	9.543	
6,700.0	6,633.5	6,667.8	6,633.5	20.4	17.9	178.92	295.4	474.1	329.0	294.2	34.84	9.442	
6,800.0	6,733.5	6,767.8	6,733.5	20.5	18.1	178.92	295.4	474.1	329.0	293.8	35.21	9.343	
6,900.0	6,833.5	6,867.8	6,833.5	20.7	18.2	178.92	295.4	474.1	329.0	293.4	35.59	9.245	
7,000.0	6,933.5	6,967.8	6,933.5	20.8	18.4	178.92	295.4	474.1	329.0	293.0	35.96	9.149	
7,100.0	7,033.5	7,067.8	7,033.5	21.0	18.6	178.92	295.4	474.1	329.0	292.7	36.34	9.054	
7,200.0	7,133.5	7,167.8	7,133.5	21.2	18.8	178.92	295.4	474.1	329.0	292.3	36.71	8.961	
7,300.0	7,233.5	7,267.8	7,233.5	21.3	19.0	178.92	295.4	474.1	329.0	291.9	37.09	8.870	
7,400.0	7,333.5	7,367.8	7,333.5	21.5	19.1	178.92	295.4	474.1	329.0	291.5	37.47	8.780	
7,500.0	7,433.5	7,467.8	7,433.5	21.6	19.3	178.92	295.4	474.1	329.0	291.1	37.85	8.691	
7,600.0	7,533.5	7,567.8	7,533.5	21.8	19.5	178.92	295.4	474.1	329.0	290.8	38.24	8.604	
7,700.0	7,633.5	7,667.8	7,633.5	22.0	19.7	178.92	295.4	474.1	329.0	290.4	38.62	8.518	
7,800.0	7,733.5	7,767.8	7,733.5	22.1	19.9	178.92	295.4	474.1	329.0	290.0	39.01	8.434	
7,900.0	7,833.5	7,867.8	7,833.5	22.3	20.1	178.92	295.4	474.1	329.0	289.6	39.40	8.351	
8,000.0	7,933.5	7,967.8	7,933.5	22.5	20.3	178.92	295.4	474.1	329.0	289.2	39.79	8.269	
8,100.0	8,033.5	8,067.8	8,033.5	22.7	20.5	178.92	295.4	474.1	329.0	288.8	40.18	8.189	
8,141.5	8,075.0	8,109.3	8,075.0	22.7	20.5	178.92	295.4	474.1	329.0	288.7	40.34	8.156	

Anticollision Report

Company:	Coachman Energy Operating Company, LLC	Local Co-ordinate Reference:	Well Federal 2/3-14-22
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 2/3-14-22	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-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	178.40	-30.2	0.8	30.2					
100.0	100.0	100.0	100.0	0.1	0.1	178.40	-30.2	0.8	30.2	30.1	0.17	181.848		
200.0	200.0	200.0	200.0	0.3	0.3	178.40	-30.2	0.8	30.2	29.6	0.62	49.112		
300.0	300.0	300.0	300.0	0.5	0.5	178.40	-30.2	0.8	30.2	29.2	1.07	28.390 CC		
350.0	350.0	350.0	350.0	0.6	0.6	177.57	-30.2	1.3	30.3	29.0	1.28	23.554 ES		
400.0	400.0	399.9	399.9	0.8	0.7	139.06	-30.2	2.6	30.8	29.3	1.51	20.431		
500.0	499.8	499.7	499.5	1.0	1.0	136.08	-30.3	7.8	35.3	33.3	1.99	17.715		
600.0	599.3	599.1	598.6	1.2	1.2	134.11	-30.3	16.4	43.9	41.4	2.52	17.446		
683.2	681.6	681.7	680.7	1.5	1.4	134.35	-30.4	25.2	54.2	51.2	3.00	18.067		
700.0	698.1	698.3	697.2	1.5	1.5	134.69	-30.4	26.9	56.5	53.4	3.09	18.293		
800.0	796.5	797.3	795.7	1.9	1.7	136.24	-30.5	37.4	70.4	66.7	3.64	19.332		
900.0	895.0	896.3	894.1	2.2	2.0	137.28	-30.6	47.8	84.3	80.0	4.21	20.024		
1,000.0	993.5	995.3	992.6	2.6	2.3	138.03	-30.6	58.3	98.2	93.4	4.79	20.508		
1,100.0	1,092.0	1,094.4	1,091.1	3.0	2.6	138.59	-30.7	68.7	112.1	106.7	5.37	20.860		
1,200.0	1,190.5	1,193.4	1,189.5	3.3	2.9	139.03	-30.8	79.2	126.0	120.1	5.97	21.126		
1,300.0	1,288.9	1,292.4	1,288.0	3.7	3.2	139.38	-30.8	89.7	140.0	133.4	6.56	21.333		
1,400.0	1,387.4	1,391.4	1,386.5	4.1	3.5	139.66	-30.9	100.1	153.9	146.8	7.16	21.498		
1,500.0	1,485.9	1,490.4	1,484.9	4.5	3.8	139.90	-31.0	110.6	167.9	160.1	7.76	21.632		
1,600.0	1,584.4	1,589.5	1,583.4	4.8	4.0	140.10	-31.1	121.0	181.8	173.5	8.36	21.743		
1,700.0	1,682.9	1,688.5	1,681.9	5.2	4.3	140.28	-31.1	131.5	195.8	186.8	8.96	21.837		
1,800.0	1,781.4	1,787.5	1,780.3	5.6	4.6	140.43	-31.2	141.9	209.7	200.2	9.57	21.917		
1,900.0	1,879.8	1,886.5	1,878.8	6.0	4.9	140.56	-31.3	152.4	223.7	213.5	10.17	21.987		
2,000.0	1,978.3	1,985.5	1,977.3	6.4	5.2	140.68	-31.3	162.9	237.6	226.9	10.78	22.047		
2,100.0	2,076.8	2,084.6	2,075.7	6.8	5.5	140.78	-31.4	173.3	251.6	240.2	11.38	22.101		
2,200.0	2,175.3	2,183.6	2,174.2	7.2	5.8	140.87	-31.5	183.8	265.6	253.6	11.99	22.149		
2,300.0	2,273.8	2,282.6	2,272.7	7.5	6.1	140.95	-31.6	194.2	279.5	266.9	12.59	22.192		
2,400.0	2,372.2	2,381.6	2,371.1	7.9	6.4	141.03	-31.6	204.7	293.5	280.3	13.20	22.231		
2,500.0	2,470.7	2,480.7	2,469.6	8.3	6.7	141.10	-31.7	215.1	307.4	293.6	13.81	22.267		
2,600.0	2,569.2	2,579.7	2,568.1	8.7	7.0	141.16	-31.8	225.6	321.4	307.0	14.41	22.299		
2,700.0	2,667.7	2,678.7	2,666.5	9.1	7.3	141.22	-31.8	236.0	335.3	320.3	15.02	22.330		
2,800.0	2,766.2	2,777.7	2,765.0	9.5	7.6	141.27	-31.9	246.5	349.3	333.7	15.62	22.358		
2,900.0	2,864.7	2,876.7	2,863.5	9.9	7.9	141.32	-32.0	257.0	363.3	347.0	16.23	22.384		
3,000.0	2,963.1	2,975.8	2,961.9	10.3	8.2	141.36	-32.1	267.4	377.2	360.4	16.83	22.408		
3,100.0	3,061.6	3,074.8	3,060.4	10.6	8.5	141.41	-32.1	277.9	391.2	373.8	17.44	22.431		
3,200.0	3,160.1	3,173.8	3,158.9	11.0	8.8	141.44	-32.2	288.3	405.2	387.1	18.04	22.453		
3,300.0	3,258.6	3,272.8	3,257.3	11.4	9.1	141.48	-32.3	298.8	419.1	400.5	18.65	22.473		
3,400.0	3,357.1	3,371.8	3,355.8	11.8	9.3	141.52	-32.3	309.2	433.1	413.8	19.25	22.493		
3,500.0	3,455.5	3,470.9	3,454.3	12.2	9.6	141.55	-32.4	319.7	447.0	427.2	19.86	22.512		
3,600.0	3,554.0	3,569.9	3,552.7	12.6	9.9	141.58	-32.5	330.2	461.0	440.5	20.46	22.530		
3,700.0	3,652.5	3,668.9	3,651.2	13.0	10.2	141.61	-32.6	340.6	475.0	453.9	21.07	22.547		
3,800.0	3,751.0	3,767.9	3,749.7	13.4	10.5	141.63	-32.6	351.1	488.9	467.3	21.67	22.563		
3,900.0	3,849.5	3,866.9	3,848.1	13.8	10.8	141.66	-32.7	361.5	502.9	480.6	22.27	22.579		
4,000.0	3,947.9	3,966.0	3,946.6	14.1	11.1	141.68	-32.8	372.0	516.9	494.0	22.88	22.594		
4,100.0	4,046.4	4,065.0	4,045.1	14.5	11.4	141.70	-32.8	382.4	530.8	507.3	23.48	22.609		
4,200.0	4,144.9	4,164.0	4,143.5	14.9	11.7	141.72	-32.9	392.9	544.8	520.7	24.08	22.623		
4,300.0	4,243.4	4,263.0	4,242.0	15.3	12.0	141.74	-33.0	403.4	558.7	534.1	24.68	22.637		
4,400.0	4,341.9	4,362.0	4,340.5	15.7	12.3	141.76	-33.1	413.8	572.7	547.4	25.28	22.651		
4,500.0	4,440.4	4,461.1	4,438.9	16.1	12.6	141.78	-33.1	424.3	586.7	560.8	25.89	22.664		
4,600.0	4,538.8	4,560.1	4,537.4	16.5	12.9	141.80	-33.2	434.7	600.6	574.1	26.49	22.677		
4,700.0	4,637.3	4,659.1	4,635.8	16.9	13.2	141.82	-33.3	445.2	614.6	587.5	27.09	22.689		
4,800.0	4,735.8	4,758.1	4,734.3	17.3	13.5	141.83	-33.3	455.6	628.6	600.9	27.69	22.701		
4,843.3	4,778.4	4,801.0	4,776.9	17.4	13.6	141.84	-33.4	460.2	634.6	606.7	27.95	22.707		

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 2/3-14-22
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 2/3-14-22	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			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	4,834.4	4,857.4	4,833.0	17.6	13.8	141.95	-33.4	466.0	641.9	613.6	28.28	22.697		
5,000.0	4,933.7	4,957.4	4,932.8	17.9	14.0	142.07	-33.5	473.9	651.4	622.7	28.72	22.680		
5,100.0	5,033.5	5,057.8	5,033.0	18.0	14.2	142.13	-33.5	478.4	656.7	627.7	29.05	22.604		
5,176.5	5,110.0	5,134.8	5,110.0	18.1	14.3	178.99	-33.5	479.4	658.0	628.7	29.25	22.496		
5,200.0	5,133.5	5,158.2	5,133.5	18.2	14.3	178.99	-33.5	479.4	658.0	628.7	29.32	22.441		
5,300.0	5,233.5	5,258.2	5,233.5	18.3	14.5	178.99	-33.5	479.4	658.0	628.3	29.65	22.195		
5,400.0	5,333.5	5,358.2	5,333.5	18.4	14.6	178.99	-33.5	479.4	658.0	628.0	29.98	21.950		
5,500.0	5,433.5	5,458.2	5,433.5	18.6	14.8	178.99	-33.5	479.4	658.0	627.7	30.31	21.708		
5,600.0	5,533.5	5,558.2	5,533.5	18.7	15.0	178.99	-33.5	479.4	658.0	627.3	30.65	21.469		
5,700.0	5,633.5	5,658.2	5,633.5	18.9	15.1	178.99	-33.5	479.4	658.0	627.0	30.99	21.233		
5,800.0	5,733.5	5,758.2	5,733.5	19.0	15.3	178.99	-33.5	479.4	658.0	626.6	31.33	21.001		
5,900.0	5,833.5	5,858.2	5,833.5	19.2	15.5	178.99	-33.5	479.4	658.0	626.3	31.68	20.772		
6,000.0	5,933.5	5,958.2	5,933.5	19.3	15.6	178.99	-33.5	479.4	658.0	625.9	32.02	20.546		
6,100.0	6,033.5	6,058.2	6,033.5	19.4	15.8	178.99	-33.5	479.4	658.0	625.6	32.37	20.324		
6,200.0	6,133.5	6,158.2	6,133.5	19.6	16.0	178.99	-33.5	479.4	658.0	625.2	32.73	20.105		
6,300.0	6,233.5	6,258.2	6,233.5	19.7	16.2	178.99	-33.5	479.4	658.0	624.9	33.08	19.889		
6,400.0	6,333.5	6,358.2	6,333.5	19.9	16.3	178.99	-33.5	479.4	658.0	624.5	33.44	19.676		
6,500.0	6,433.5	6,458.2	6,433.5	20.0	16.5	178.99	-33.5	479.4	658.0	624.2	33.80	19.467		
6,600.0	6,533.5	6,558.2	6,533.5	20.2	16.7	178.99	-33.5	479.4	658.0	623.8	34.16	19.260		
6,700.0	6,633.5	6,658.2	6,633.5	20.4	16.9	178.99	-33.5	479.4	658.0	623.4	34.53	19.057		
6,800.0	6,733.5	6,758.2	6,733.5	20.5	17.1	178.99	-33.5	479.4	658.0	623.1	34.89	18.857		
6,900.0	6,833.5	6,858.2	6,833.5	20.7	17.3	178.99	-33.5	479.4	658.0	622.7	35.26	18.661		
7,000.0	6,933.5	6,958.2	6,933.5	20.8	17.4	178.99	-33.5	479.4	658.0	622.3	35.63	18.467		
7,100.0	7,033.5	7,058.2	7,033.5	21.0	17.6	178.99	-33.5	479.4	658.0	622.0	36.00	18.276		
7,200.0	7,133.5	7,158.2	7,133.5	21.2	17.8	178.99	-33.5	479.4	658.0	621.6	36.37	18.089		
7,300.0	7,233.5	7,258.2	7,233.5	21.3	18.0	178.99	-33.5	479.4	658.0	621.2	36.75	17.904		
7,400.0	7,333.5	7,358.2	7,333.5	21.5	18.2	178.99	-33.5	479.4	658.0	620.8	37.13	17.722		
7,500.0	7,433.5	7,458.2	7,433.5	21.6	18.4	178.99	-33.5	479.4	658.0	620.5	37.50	17.544		
7,600.0	7,533.5	7,558.2	7,533.5	21.8	18.6	178.99	-33.5	479.4	658.0	620.1	37.88	17.368		
7,700.0	7,633.5	7,658.2	7,633.5	22.0	18.7	178.99	-33.5	479.4	658.0	619.7	38.27	17.195		
7,800.0	7,733.5	7,758.2	7,733.5	22.1	18.9	178.99	-33.5	479.4	658.0	619.3	38.65	17.024		
7,900.0	7,833.5	7,858.2	7,833.5	22.3	19.1	178.99	-33.5	479.4	658.0	618.9	39.03	16.857		
8,000.0	7,933.5	7,958.2	7,933.5	22.5	19.3	178.99	-33.5	479.4	658.0	618.6	39.42	16.692		
8,100.0	8,033.5	8,058.2	8,033.5	22.7	19.5	178.99	-33.5	479.4	658.0	618.2	39.75	16.553		
8,141.5	8,075.0	8,099.8	8,075.0	22.7	19.5	178.99	-33.5	479.4	658.0	618.1	39.87	16.503 SF		

Anticollision Report

Company:	Coachman Energy Operating Company, LLC	Local Co-ordinate Reference:	Well Federal 2/3-14-22
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 2/3-14-22	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-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	33.01	22.6	14.7	26.9					
100.0	100.0	100.0	100.0	0.1	0.1	33.01	22.6	14.7	26.9	26.8	0.17	161.927		
200.0	200.0	200.0	200.0	0.3	0.3	33.01	22.6	14.7	26.9	26.3	0.62	43.732		
233.5	233.5	233.5	233.5	0.4	0.4	33.01	22.6	14.7	26.9	26.2	0.77	35.135 CC, ES		
300.0	300.0	299.4	299.4	0.5	0.5	33.64	22.9	15.2	27.5	26.4	1.06	25.909		
350.0	350.0	348.7	348.6	0.6	0.6	35.39	23.8	16.9	29.2	27.9	1.29	22.710		
400.0	400.0	397.9	397.8	0.8	0.8	1.05	25.3	19.7	31.5	30.0	1.52	20.708		
500.0	499.8	496.1	495.4	1.0	1.0	7.64	30.2	28.6	36.0	33.9	2.03	17.699		
600.0	599.3	593.9	592.1	1.2	1.3	15.71	37.4	41.8	40.8	38.2	2.56	15.913		
683.2	681.6	675.0	671.5	1.5	1.6	23.01	45.1	56.0	45.5	42.5	3.01	15.118		
700.0	698.1	691.3	687.4	1.5	1.7	24.48	46.9	59.2	46.7	43.6	3.09	15.114 SF		
800.0	796.5	788.0	780.9	1.9	2.1	31.51	58.6	80.8	56.9	53.3	3.60	15.820		
900.0	895.0	883.4	871.9	2.2	2.7	35.51	72.4	106.1	72.6	68.4	4.17	17.422		
1,000.0	993.5	977.3	959.8	2.6	3.3	37.35	88.1	134.8	93.3	88.5	4.78	19.529		
1,100.0	1,092.0	1,069.1	1,044.2	3.0	4.0	37.94	105.4	166.5	118.6	113.2	5.40	21.946		
1,200.0	1,190.5	1,158.5	1,124.6	3.3	4.7	37.89	124.1	200.8	148.3	142.3	6.04	24.566		
1,300.0	1,288.9	1,253.1	1,208.6	3.7	5.6	37.66	144.9	239.0	180.3	173.6	6.68	26.974		
1,400.0	1,387.4	1,347.8	1,292.8	4.1	6.4	37.49	165.7	277.1	212.3	205.0	7.34	28.941		
1,500.0	1,485.9	1,442.5	1,377.0	4.5	7.3	37.38	186.5	315.3	244.3	236.3	7.99	30.559		
1,600.0	1,584.4	1,537.3	1,461.1	4.8	8.2	37.28	207.3	353.5	276.3	267.7	8.66	31.909		
1,700.0	1,682.9	1,632.0	1,545.3	5.2	9.0	37.21	228.2	391.7	308.3	299.0	9.33	33.050		
1,800.0	1,781.4	1,726.8	1,629.4	5.6	9.9	37.15	249.0	429.9	340.3	330.3	10.00	34.026		
1,900.0	1,879.8	1,821.5	1,713.6	6.0	10.8	37.10	269.8	468.1	372.4	361.7	10.68	34.871		
2,000.0	1,978.3	1,916.2	1,797.8	6.4	11.7	37.06	290.6	506.3	404.4	393.0	11.36	35.608		
2,100.0	2,076.8	2,011.0	1,881.9	6.8	12.5	37.03	311.5	544.5	436.4	424.3	12.04	36.258		
2,200.0	2,175.3	2,105.7	1,966.1	7.2	13.4	37.00	332.3	582.7	468.4	455.7	12.72	36.835		
2,300.0	2,273.8	2,200.4	2,050.3	7.5	14.3	36.97	353.1	620.8	500.4	487.0	13.40	37.350		
2,400.0	2,372.2	2,295.2	2,134.4	7.9	15.2	36.95	373.9	659.0	532.4	518.3	14.08	37.814		
2,500.0	2,470.7	2,389.9	2,218.6	8.3	16.1	36.93	394.8	697.2	564.4	549.7	14.76	38.234		
2,600.0	2,569.2	2,484.7	2,302.7	8.7	17.0	36.91	415.6	735.4	596.4	581.0	15.45	38.616		
2,700.0	2,667.7	2,579.4	2,386.9	9.1	17.9	36.89	436.4	773.6	628.4	612.3	16.13	38.960		
2,800.0	2,766.2	2,674.1	2,471.1	9.5	18.7	36.88	457.2	811.8	660.5	643.6	16.82	39.261		
2,900.0	2,864.7	2,768.9	2,555.2	9.9	19.6	36.86	478.0	850.0	692.5	675.0	17.51	39.537		
3,000.0	2,963.1	2,863.6	2,639.4	10.3	20.5	36.85	498.9	888.2	724.5	706.3	18.21	39.791		
3,100.0	3,061.6	2,958.3	2,723.5	10.6	21.4	36.84	519.7	926.4	756.5	737.6	18.90	40.025		
3,200.0	3,160.1	3,053.1	2,807.7	11.0	22.3	36.83	540.5	964.6	788.5	768.9	19.59	40.242		
3,300.0	3,258.6	3,147.8	2,891.9	11.4	23.2	36.82	561.3	1,002.7	820.5	800.2	20.29	40.443		
3,400.0	3,357.1	3,242.6	2,976.0	11.8	24.1	36.81	582.2	1,040.9	852.5	831.5	20.98	40.630		
3,500.0	3,455.5	3,337.3	3,060.2	12.2	24.9	36.80	603.0	1,079.1	884.5	862.9	21.68	40.804		
3,600.0	3,554.0	3,432.0	3,144.4	12.6	25.8	36.80	623.8	1,117.3	916.6	894.2	22.37	40.967		
3,700.0	3,652.5	3,526.8	3,228.5	13.0	26.7	36.79	644.6	1,155.5	948.6	925.5	23.07	41.120		
3,800.0	3,751.0	3,621.5	3,312.7	13.4	27.6	36.78	665.5	1,193.7	980.6	956.8	23.76	41.263		

Anticollision Report

Company:	Coachman Energy Operating Company, LLC	Local Co-ordinate Reference:	Well Federal 2/3-14-22
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 2/3-14-22	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		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	62.91	7.6	15.0	16.8					
100.0	100.0	100.0	100.0	0.1	0.1	62.91	7.6	15.0	16.8	16.6	0.17	100.996		
200.0	200.0	200.0	200.0	0.3	0.3	62.91	7.6	15.0	16.8	16.2	0.62	27.276 CC, ES		
300.0	300.0	299.0	299.0	0.5	0.5	63.82	8.5	17.4	19.4	18.3	1.06	18.220		
350.0	350.0	348.4	348.3	0.6	0.7	64.67	9.6	20.4	22.6	21.3	1.30	17.387		
400.0	400.0	397.6	397.3	0.8	0.8	29.28	11.2	24.5	26.5	25.0	1.53	17.298		
500.0	499.8	495.6	494.5	1.0	1.0	34.60	15.5	36.4	35.0	33.0	2.03	17.246 SF		
600.0	599.3	593.0	590.3	1.2	1.4	41.20	21.6	52.8	44.7	42.2	2.55	17.557		
683.2	681.6	673.5	668.7	1.5	1.7	46.76	27.8	69.8	54.1	51.1	3.01	17.978		
700.0	698.1	689.7	684.3	1.5	1.8	47.85	29.2	73.5	56.2	53.1	3.10	18.131		
800.0	796.5	785.3	776.2	1.9	2.3	52.10	38.4	98.5	71.9	68.2	3.70	19.425		
900.0	895.0	879.4	865.2	2.2	2.9	53.67	49.0	127.2	92.3	87.9	4.35	21.221		
1,000.0	993.5	971.6	950.8	2.6	3.6	53.78	60.8	159.2	117.1	112.1	5.02	23.336		
1,100.0	1,092.0	1,063.1	1,034.1	3.0	4.3	53.21	73.8	194.7	146.1	140.4	5.70	25.615		
1,200.0	1,190.5	1,158.4	1,120.4	3.3	5.1	52.65	87.9	232.8	176.3	169.9	6.39	27.602		
1,300.0	1,288.9	1,253.8	1,206.6	3.7	5.9	52.26	101.9	270.8	206.5	199.4	7.09	29.133		
1,400.0	1,387.4	1,349.1	1,292.9	4.1	6.7	51.96	115.9	308.9	236.7	228.9	7.79	30.377		
1,500.0	1,485.9	1,444.4	1,379.2	4.5	7.5	51.74	129.9	346.9	266.9	258.4	8.50	31.395		
1,600.0	1,584.4	1,539.7	1,465.5	4.8	8.4	51.56	143.9	385.0	297.1	287.8	9.22	32.235		
1,700.0	1,682.9	1,635.1	1,551.8	5.2	9.2	51.41	157.9	423.0	327.3	317.3	9.94	32.930		
1,800.0	1,781.4	1,730.4	1,638.0	5.6	10.0	51.29	171.9	461.0	357.4	346.8	10.66	33.521		
1,900.0	1,879.8	1,825.7	1,724.3	6.0	10.8	51.18	185.9	499.1	387.6	376.3	11.39	34.031		
2,000.0	1,978.3	1,921.1	1,810.6	6.4	11.7	51.09	199.9	537.1	417.8	405.7	12.12	34.473		
2,100.0	2,076.8	2,016.4	1,896.9	6.8	12.5	51.02	213.9	575.2	448.1	435.2	12.85	34.861		
2,200.0	2,175.3	2,111.7	1,983.2	7.2	13.3	50.95	227.9	613.2	478.3	464.7	13.59	35.204		
2,300.0	2,273.8	2,207.0	2,069.4	7.5	14.2	50.89	241.9	651.3	508.5	494.1	14.32	35.510		
2,400.0	2,372.2	2,302.4	2,155.7	7.9	15.0	50.84	255.9	689.3	538.7	523.6	15.05	35.783		
2,500.0	2,470.7	2,397.7	2,242.0	8.3	15.8	50.79	269.9	727.3	568.9	553.1	15.79	36.028		
2,600.0	2,569.2	2,493.0	2,328.3	8.7	16.6	50.75	283.9	765.4	599.1	582.5	16.53	36.251		
2,700.0	2,667.7	2,588.4	2,414.6	9.1	17.5	50.71	298.0	803.4	629.3	612.0	17.26	36.453		
2,800.0	2,766.2	2,683.7	2,500.8	9.5	18.3	50.68	312.0	841.5	659.5	641.5	18.00	36.637		
2,900.0	2,864.7	2,779.0	2,587.1	9.9	19.1	50.65	326.0	879.5	689.7	670.9	18.74	36.806		
3,000.0	2,963.1	2,874.3	2,673.4	10.3	20.0	50.62	340.0	917.6	719.9	700.4	19.48	36.961		
3,100.0	3,061.6	2,969.7	2,759.7	10.6	20.8	50.59	354.0	955.6	750.1	729.9	20.22	37.105		
3,200.0	3,160.1	3,065.0	2,846.0	11.0	21.6	50.57	368.0	993.6	780.3	759.3	20.95	37.237		
3,300.0	3,258.6	3,160.3	2,932.2	11.4	22.5	50.54	382.0	1,031.7	810.5	788.8	21.69	37.360		
3,400.0	3,357.1	3,255.7	3,018.5	11.8	23.3	50.52	396.0	1,069.7	840.7	818.3	22.43	37.475		
3,500.0	3,455.5	3,351.0	3,104.8	12.2	24.1	50.50	410.0	1,107.8	870.9	847.7	23.17	37.582		
3,600.0	3,554.0	3,446.3	3,191.1	12.6	25.0	50.48	424.0	1,145.8	901.1	877.2	23.91	37.682		
3,700.0	3,652.5	3,541.7	3,277.4	13.0	25.8	50.47	438.0	1,183.8	931.3	906.7	24.65	37.775		
3,800.0	3,751.0	3,637.0	3,363.6	13.4	26.6	50.45	452.0	1,221.9	961.5	936.1	25.39	37.863		
3,900.0	3,849.5	3,732.3	3,449.9	13.8	27.5	50.44	466.0	1,259.9	991.7	965.6	26.14	37.946		

Anticollision Report

Company:	Coachman Energy Operating Company, LLC	Local Co-ordinate Reference:	Well Federal 2/3-14-22
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 2/3-14-22	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 6/7-15-22 - 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	115.55	-7.3	15.2	16.9					
100.0	100.0	100.0	100.0	0.1	0.1	115.55	-7.3	15.2	16.9	16.7	0.17	101.545		
200.0	200.0	200.0	200.0	0.3	0.3	115.55	-7.3	15.2	16.9	16.3	0.62	27.425		
233.8	233.8	233.8	233.8	0.4	0.4	115.55	-7.3	15.2	16.9	16.1	0.77	21.992 CC, ES		
300.0	300.0	299.6	299.6	0.5	0.5	114.29	-7.2	15.9	17.4	16.4	1.06	16.408		
350.0	350.0	349.2	349.2	0.6	0.6	110.94	-6.8	17.8	19.0	17.8	1.29	14.785		
400.0	400.0	398.7	398.5	0.8	0.8	71.19	-6.2	20.9	21.6	20.1	1.51	14.365 SF		
500.0	499.8	497.3	496.6	1.0	1.0	70.87	-4.3	30.9	29.0	27.0	1.98	14.684		
600.0	599.3	595.2	593.3	1.2	1.3	74.10	-1.4	45.8	39.3	36.8	2.49	15.771		
683.2	681.6	676.1	672.6	1.5	1.6	77.48	1.6	61.7	50.1	47.1	2.98	16.817		
700.0	698.1	692.3	688.4	1.5	1.7	78.16	2.3	65.3	52.6	49.5	3.09	17.042		
800.0	796.5	788.4	781.3	1.9	2.1	79.63	6.9	89.3	69.7	65.9	3.76	18.536		
900.0	895.0	883.1	871.5	2.2	2.7	78.58	12.3	117.3	90.7	86.2	4.47	20.286		
1,000.0	993.5	975.8	958.5	2.6	3.3	76.54	18.4	149.1	115.5	110.3	5.20	22.227		
1,100.0	1,092.0	1,066.6	1,041.9	3.0	4.0	74.21	25.2	184.1	144.4	138.4	5.94	24.315		
1,200.0	1,190.5	1,161.6	1,128.5	3.3	4.7	72.20	32.5	222.6	175.1	168.4	6.69	26.182		
1,300.0	1,288.9	1,256.6	1,215.1	3.7	5.5	70.79	39.9	261.0	205.9	198.5	7.44	27.693		
1,400.0	1,387.4	1,351.6	1,301.6	4.1	6.3	69.75	47.3	299.5	236.9	228.7	8.19	28.916		
1,500.0	1,485.9	1,446.7	1,388.2	4.5	7.1	68.95	54.7	338.0	267.9	258.9	8.95	29.925		
1,600.0	1,584.4	1,541.7	1,474.7	4.8	7.9	68.31	62.1	376.5	298.9	289.2	9.72	30.769		
1,700.0	1,682.9	1,636.7	1,561.3	5.2	8.7	67.79	69.5	415.0	330.0	319.5	10.48	31.485		
1,800.0	1,781.4	1,731.7	1,647.9	5.6	9.5	67.37	76.9	453.4	361.1	349.8	11.25	32.099		
1,900.0	1,879.8	1,826.7	1,734.4	6.0	10.3	67.01	84.3	491.9	392.2	380.2	12.02	32.631		
2,000.0	1,978.3	1,921.7	1,821.0	6.4	11.1	66.70	91.7	530.4	423.3	410.5	12.79	33.096		
2,100.0	2,076.8	2,016.7	1,907.5	6.8	11.9	66.44	99.1	568.9	454.4	440.9	13.56	33.505		
2,200.0	2,175.3	2,111.8	1,994.1	7.2	12.8	66.21	106.5	607.4	485.5	471.2	14.34	33.869		
2,300.0	2,273.8	2,206.8	2,080.6	7.5	13.6	66.00	113.9	645.8	516.7	501.6	15.11	34.193		
2,400.0	2,372.2	2,301.8	2,167.2	7.9	14.4	65.82	121.3	684.3	547.8	531.9	15.89	34.485		
2,500.0	2,470.7	2,396.8	2,253.8	8.3	15.2	65.66	128.6	722.8	579.0	562.3	16.66	34.748		
2,600.0	2,569.2	2,491.8	2,340.3	8.7	16.0	65.52	136.0	761.3	610.1	592.7	17.44	34.987		
2,700.0	2,667.7	2,586.8	2,426.9	9.1	16.8	65.39	143.4	799.7	641.3	623.1	18.22	35.204		
2,800.0	2,766.2	2,681.8	2,513.4	9.5	17.6	65.27	150.8	838.2	672.4	653.4	18.99	35.404		
2,900.0	2,864.7	2,776.9	2,600.0	9.9	18.4	65.16	158.2	876.7	703.6	683.8	19.77	35.587		
3,000.0	2,963.1	2,871.9	2,686.6	10.3	19.2	65.07	165.6	915.2	734.7	714.2	20.55	35.755		
3,100.0	3,061.6	2,966.9	2,773.1	10.6	20.1	64.97	173.0	953.7	765.9	744.6	21.33	35.911		
3,200.0	3,160.1	3,061.9	2,859.7	11.0	20.9	64.89	180.4	992.1	797.1	775.0	22.11	36.055		
3,300.0	3,258.6	3,156.9	2,946.2	11.4	21.7	64.81	187.8	1,030.6	828.2	805.4	22.89	36.190		
3,400.0	3,357.1	3,251.9	3,032.8	11.8	22.5	64.74	195.2	1,069.1	859.4	835.7	23.67	36.315		
3,500.0	3,455.5	3,346.9	3,119.4	12.2	23.3	64.68	202.6	1,107.6	890.6	866.1	24.44	36.432		
3,600.0	3,554.0	3,442.0	3,205.9	12.6	24.1	64.61	210.0	1,146.1	921.7	896.5	25.22	36.541		
3,700.0	3,652.5	3,537.0	3,292.5	13.0	24.9	64.56	217.4	1,184.5	952.9	926.9	26.00	36.644		
3,800.0	3,751.0	3,632.0	3,379.0	13.4	25.7	64.50	224.8	1,223.0	984.1	957.3	26.78	36.740		

Anticollision Report

Company:	Coachman Energy Operating Company, LLC	Local Co-ordinate Reference:	Well Federal 2/3-14-22
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 2/3-14-22	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			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	145.07	-22.2	15.5	27.1					
100.0	100.0	100.0	100.0	0.1	0.1	145.07	-22.2	15.5	27.1	26.9	0.17	162.955		
200.0	200.0	200.0	200.0	0.3	0.3	145.07	-22.2	15.5	27.1	26.5	0.62	44.010	CC, ES	
300.0	300.0	299.1	299.1	0.5	0.5	140.79	-22.2	18.1	28.6	27.6	1.06	27.002		
350.0	350.0	348.5	348.4	0.6	0.6	136.10	-22.1	21.3	30.7	29.5	1.29	23.753		
400.0	400.0	397.8	397.4	0.8	0.8	94.71	-22.0	25.7	34.0	32.5	1.52	22.419		
500.0	499.8	495.7	494.5	1.0	1.0	89.92	-21.8	38.4	44.1	42.1	2.01	22.000	SF	
600.0	599.3	592.6	589.8	1.2	1.4	88.93	-21.5	55.7	58.3	55.7	2.54	22.923		
683.2	681.6	672.4	667.6	1.5	1.7	89.50	-21.2	73.6	73.0	70.0	3.06	23.900		
700.0	698.1	688.3	683.0	1.5	1.8	89.74	-21.2	77.6	76.3	73.2	3.17	24.112		
800.0	796.5	782.5	773.5	1.9	2.3	89.78	-20.7	103.7	98.2	94.3	3.86	25.441		
900.0	895.0	874.9	861.0	2.2	2.9	88.45	-20.2	133.5	123.8	119.2	4.59	26.992		
1,000.0	993.5	965.2	944.8	2.6	3.5	86.57	-19.6	166.7	153.1	147.8	5.33	28.707		
1,100.0	1,092.0	1,058.2	1,030.1	3.0	4.3	84.65	-19.0	203.9	185.3	179.2	6.11	30.336		
1,200.0	1,190.5	1,152.6	1,116.7	3.3	5.0	83.25	-18.4	241.8	217.7	210.8	6.88	31.645		
1,300.0	1,288.9	1,247.1	1,203.2	3.7	5.8	82.21	-17.7	279.6	250.2	242.6	7.66	32.665		
1,400.0	1,387.4	1,341.6	1,289.8	4.1	6.6	81.41	-17.1	317.5	282.8	274.3	8.44	33.487		
1,500.0	1,485.9	1,436.1	1,376.3	4.5	7.3	80.78	-16.4	355.4	315.4	306.1	9.23	34.160		
1,600.0	1,584.4	1,530.6	1,462.9	4.8	8.1	80.27	-15.8	393.3	348.0	338.0	10.02	34.722		
1,700.0	1,682.9	1,625.1	1,549.5	5.2	8.9	79.84	-15.1	431.2	380.6	369.8	10.81	35.196		
1,800.0	1,781.4	1,719.6	1,636.0	5.6	9.7	79.48	-14.5	469.0	413.3	401.7	11.61	35.601		
1,900.0	1,879.8	1,814.1	1,722.6	6.0	10.5	79.17	-13.8	506.9	446.0	433.6	12.40	35.951		
2,000.0	1,978.3	1,908.5	1,809.1	6.4	11.3	78.91	-13.2	544.8	478.6	465.4	13.20	36.257		
2,100.0	2,076.8	2,003.0	1,895.7	6.8	12.1	78.68	-12.5	582.7	511.3	497.3	14.00	36.525		
2,200.0	2,175.3	2,097.5	1,982.3	7.2	12.8	78.48	-11.9	620.6	544.0	529.2	14.80	36.763		
2,300.0	2,273.8	2,192.0	2,068.8	7.5	13.6	78.30	-11.3	658.4	576.7	561.1	15.60	36.976		
2,400.0	2,372.2	2,286.5	2,155.4	7.9	14.4	78.13	-10.6	696.3	609.4	593.0	16.40	37.166		
2,500.0	2,470.7	2,381.0	2,241.9	8.3	15.2	77.99	-10.0	734.2	642.1	624.9	17.20	37.338		
2,600.0	2,569.2	2,475.5	2,328.5	8.7	16.0	77.86	-9.3	772.1	674.9	656.9	18.00	37.494		
2,700.0	2,667.7	2,569.9	2,415.1	9.1	16.8	77.74	-8.7	810.0	707.6	688.8	18.80	37.636		
2,800.0	2,766.2	2,664.4	2,501.6	9.5	17.6	77.63	-8.0	847.8	740.3	720.7	19.60	37.766		
2,900.0	2,864.7	2,758.9	2,588.2	9.9	18.4	77.53	-7.4	885.7	773.0	752.6	20.40	37.885		
3,000.0	2,963.1	2,853.4	2,674.7	10.3	19.2	77.44	-6.7	923.6	805.7	784.5	21.21	37.995		
3,100.0	3,061.6	2,947.9	2,761.3	10.6	20.0	77.36	-6.1	961.5	838.5	816.5	22.01	38.096		
3,200.0	3,160.1	3,042.4	2,847.9	11.0	20.7	77.28	-5.4	999.4	871.2	848.4	22.81	38.190		
3,300.0	3,258.6	3,136.9	2,934.4	11.4	21.5	77.21	-4.8	1,037.2	903.9	880.3	23.61	38.278		
3,400.0	3,357.1	3,231.4	3,021.0	11.8	22.3	77.14	-4.2	1,075.1	936.6	912.2	24.42	38.359		
3,500.0	3,455.5	3,325.8	3,107.5	12.2	23.1	77.08	-3.5	1,113.0	969.4	944.2	25.22	38.435		

Anticollision Report

Company:	Coachman Energy Operating Company, LLC	Local Co-ordinate Reference:	Well Federal 2/3-14-22
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 2/3-14-22	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 2/3-14-22

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: -1.32°

