



Laramie Energy, LLC

Mesa County, CO

Laramie 0993-29-01

Laramie 29-01 0993-20-14E

OH

Design #1

KLX Anticollision Report

23 August, 2023





Anticollision Report



Company:	Laramie Energy, LLC	Local Co-ordinate Reference:	Well Laramie 29-01 0993-20-14E - Slot A-7
Project:	Mesa County, CO	TVD Reference:	RKB=30' @ 7493.0usft (TBD)
Reference Site:	Laramie 0993-29-01	MD Reference:	RKB=30' @ 7493.0usft (TBD)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Laramie 29-01 0993-20-14E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Reference	Design #1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.0usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum ellipse separation of 1,000.0 usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program	Date	8/23/2023		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	9,310.0	Design #1 (OH)	OWSG (REV5) MWD HD	OWSG MWD - Standard

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Laramie 0993-29-01						
Laramie 29-01 0993-20-11E - OH - Design #1	200.0	200.0	48.3	45.8	19.543	CC, ES
Laramie 29-01 0993-20-11E - OH - Design #1	600.0	589.9	70.3	61.6	8.094	SF
Laramie 29-01 0993-20-12E - OH - Design #1	205.6	205.6	32.1	29.6	12.753	CC
Laramie 29-01 0993-20-12E - OH - Design #1	300.0	299.7	32.3	29.0	9.818	ES
Laramie 29-01 0993-20-12E - OH - Design #1	1,000.0	984.8	65.5	53.2	5.325	SF
Laramie 29-01 0993-20-13E - OH - Design #1	213.0	213.0	16.1	13.5	6.210	CC
Laramie 29-01 0993-20-13E - OH - Design #1	300.0	299.9	16.1	12.7	4.769	ES
Laramie 29-01 0993-20-13E - OH - Design #1	600.0	597.5	24.2	16.1	2.982	SF
Laramie 29-01 0993-20-15E - OH - Design #1	300.0	300.0	15.9	12.5	4.596	CC
Laramie 29-01 0993-20-15E - OH - Design #1	400.0	400.0	16.4	12.3	9.297	ES
Laramie 29-01 0993-20-15E - OH - Design #1	1,300.0	1,311.2	48.6	32.6	3.035	SF
Laramie 29-01 0993-20-16E - OH - Design #1	300.0	300.0	31.9	28.4	9.191	CC
Laramie 29-01 0993-20-16E - OH - Design #1	400.0	400.0	32.3	28.3	7.959	ES
Laramie 29-01 0993-20-16E - OH - Design #1	800.0	804.2	54.0	44.2	5.489	SF
Laramie 29-01 0993-20-17E - OH - Design #1	489.4	491.7	47.2	41.8	8.645	CC
Laramie 29-01 0993-20-17E - OH - Design #1	600.0	603.7	47.6	40.4	6.601	ES
Laramie 29-01 0993-20-17E - OH - Design #1	1,000.0	1,011.2	54.8	44.4	5.256	SF
Laramie 29-01 0993-20-18E - OH - Design #1	530.3	534.1	60.3	54.4	10.311	CC
Laramie 29-01 0993-20-18E - OH - Design #1	600.0	604.3	60.6	54.1	9.297	ES
Laramie 29-01 0993-20-18E - OH - Design #1	1,000.0	1,012.1	73.6	63.6	7.406	SF
Laramie 29-01 Fed 0993-21-11W - OH - Design #1	200.0	200.0	40.2	37.7	16.274	CC
Laramie 29-01 Fed 0993-21-11W - OH - Design #1	300.0	299.7	40.5	37.2	12.399	ES
Laramie 29-01 Fed 0993-21-11W - OH - Design #1	600.0	593.8	52.7	45.2	6.999	SF
Laramie 29-01 Fed 0993-21-12W - OH - Design #1	200.0	200.0	24.1	21.6	9.763	CC
Laramie 29-01 Fed 0993-21-12W - OH - Design #1	300.0	299.8	24.6	21.0	6.959	ES
Laramie 29-01 Fed 0993-21-12W - OH - Design #1	500.0	497.4	32.3	25.7	4.930	SF
Laramie 29-01 Fed 0993-21-13W - OH - Design #1	245.2	245.2	8.1	5.1	2.703	CC
Laramie 29-01 Fed 0993-21-13W - OH - Design #1	300.0	300.0	8.2	4.7	2.348	Level 1, ES
Laramie 29-01 Fed 0993-21-13W - OH - Design #1	400.0	399.5	11.5	6.3	2.220	Level 1, SF
Laramie 29-01 Fed 0993-21-14W - OH - Design #1	207.4	207.4	7.9	5.4	3.127	CC
Laramie 29-01 Fed 0993-21-14W - OH - Design #1	300.0	299.9	8.1	4.8	2.487	Level 1, ES
Laramie 29-01 Fed 0993-21-14W - OH - Design #1	400.0	399.6	11.4	6.8	2.479	Level 1, SF
Laramie 29-01 Fed 0993-21-15W - OH - Design #1	203.5	203.5	24.0	21.5	9.626	CC
Laramie 29-01 Fed 0993-21-15W - OH - Design #1	300.0	299.8	24.2	21.0	7.541	ES
Laramie 29-01 Fed 0993-21-15W - OH - Design #1	500.0	497.8	35.6	29.2	5.518	SF
Laramie 29-01 Fed 0993-21-16W - OH - Design #1	200.0	200.0	40.0	37.5	16.174	CC
Laramie 29-01 Fed 0993-21-16W - OH - Design #1	300.0	299.5	40.4	37.1	12.366	ES

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



Anticollision Report



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Project:	Mesa County, CO	TVD Reference:	RKB=30' @ 7493.0usft (TBD)
Reference Site:	Laramie 0993-29-01	MD Reference:	RKB=30' @ 7493.0usft (TBD)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Laramie 29-01 0993-20-14E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Summary						
Offset Well - Wellbore - Design						
Laramie 0993-29-01						
Laramie 29-01 Fed 0993-21-16W - OH - Design #1	600.0	592.3	70.9	62.0	7.930	SF
Laramie 29-01 Fed 0993-21-17W - OH - Design #1	200.0	200.0	55.9	53.4	22.628	CC
Laramie 29-01 Fed 0993-21-17W - OH - Design #1	300.0	299.2	56.5	53.2	17.211	ES
Laramie 29-01 Fed 0993-21-17W - OH - Design #1	600.0	590.3	87.5	78.6	9.884	SF
Laramie 29-01 Fed 0993-21-18W - OH - Design #1	200.0	200.0	71.8	69.4	29.080	CC, ES
Laramie 29-01 Fed 0993-21-18W - OH - Design #1	600.0	586.7	107.8	98.6	11.744	SF

Offset Design											Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard											Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-46.66	33.1	-35.1	48.3			
100.0	100.0	100.0	100.0	0.4	0.4	-46.66	33.1	-35.1	48.3	47.5	60.955	
200.0	200.0	200.0	200.0	1.2	1.2	-46.66	33.1	-35.1	48.3	45.8	19.543	CC, ES
300.0	300.0	298.4	298.4	1.7	2.4	-45.05	35.2	-35.3	49.9	46.0	12.920	
400.0	400.0	396.4	396.2	1.9	3.9	44.54	41.5	-35.8	54.6	49.3	10.236	
500.0	499.9	493.5	492.7	3.1	4.9	51.88	51.4	-37.8	61.1	53.9	8.541	
600.0	599.5	589.9	588.1	4.5	5.7	59.82	64.4	-42.3	70.3	61.6	8.094	SF
700.0	698.7	685.7	682.3	4.7	6.5	57.87	80.3	-49.3	82.2	72.7	8.605	
800.0	797.4	781.1	775.4	5.3	7.2	54.24	99.2	-58.7	95.0	84.2	8.781	
900.0	895.4	876.4	867.3	6.0	7.8	52.24	120.9	-70.7	108.1	96.0	8.968	
1,000.0	992.6	971.4	958.0	6.8	8.5	51.07	145.6	-85.0	121.2	108.1	9.218	
1,100.0	1,088.7	1,066.1	1,047.1	7.5	9.1	50.33	173.0	-101.6	134.2	120.1	9.481	
1,200.0	1,183.6	1,160.7	1,134.7	8.1	9.7	49.82	203.2	-120.6	147.0	131.9	9.707	
1,300.0	1,277.1	1,255.0	1,220.5	8.8	10.3	49.44	236.0	-141.9	159.4	143.3	9.870	
1,400.0	1,369.1	1,349.2	1,304.5	9.4	10.9	49.14	271.4	-165.4	171.5	154.3	9.967	
1,500.0	1,459.2	1,443.1	1,386.6	10.1	11.4	48.88	309.3	-191.0	183.2	164.8	9.996	
1,600.0	1,547.5	1,536.9	1,466.6	10.7	11.9	48.65	349.7	-218.8	194.3	174.8	9.962	
1,700.0	1,633.9	1,630.5	1,544.3	11.0	12.4	48.76	392.4	-248.6	205.3	184.8	9.979	
1,800.0	1,719.9	1,725.5	1,621.1	11.4	12.9	48.76	438.1	-280.9	218.6	196.8	10.043	
1,900.0	1,806.0	1,824.6	1,700.6	11.8	13.2	48.58	486.2	-315.1	232.4	209.4	10.082	
2,000.0	1,892.0	1,923.6	1,780.1	12.2	13.6	48.43	534.4	-349.2	246.3	221.9	10.093	
2,100.0	1,978.0	2,022.6	1,859.6	12.7	14.1	48.29	582.6	-383.4	260.2	234.4	10.087	
2,200.0	2,064.1	2,121.6	1,939.1	13.3	14.7	48.17	630.7	-417.5	274.1	246.9	10.075	
2,300.0	2,150.1	2,220.7	2,018.6	14.1	15.6	48.06	678.9	-451.7	288.0	259.3	10.049	
2,400.0	2,236.2	2,319.7	2,098.1	14.9	16.5	47.96	727.1	-485.9	301.9	271.8	10.018	
2,500.0	2,322.2	2,418.7	2,177.6	15.8	17.6	47.87	775.2	-520.0	315.8	284.2	9.983	
2,600.0	2,408.3	2,517.8	2,257.1	16.7	18.6	47.79	823.4	-554.2	329.7	296.5	9.945	
2,700.0	2,494.3	2,616.8	2,336.6	17.6	19.7	47.71	871.6	-588.3	343.6	308.9	9.907	
2,800.0	2,580.4	2,715.8	2,416.1	18.5	20.8	47.64	919.7	-622.5	357.5	321.3	9.868	
2,900.0	2,666.4	2,814.8	2,495.6	19.4	21.9	47.57	967.9	-656.6	371.4	333.6	9.829	
3,000.0	2,752.5	2,913.9	2,575.1	20.4	23.0	47.51	1,016.1	-690.8	385.3	345.9	9.790	
3,100.0	2,838.5	3,012.9	2,654.6	21.3	24.1	47.45	1,064.3	-724.9	399.2	358.2	9.752	
3,200.0	2,924.5	3,111.9	2,734.1	22.3	25.2	47.40	1,112.4	-759.1	413.1	370.6	9.715	
3,300.0	3,010.6	3,211.0	2,813.6	23.2	26.3	47.35	1,160.6	-793.3	427.0	382.9	9.679	
3,400.0	3,096.6	3,310.0	2,893.1	24.1	27.4	47.31	1,208.8	-827.4	440.9	395.2	9.644	
3,500.0	3,182.7	3,409.0	2,972.6	25.1	28.6	47.26	1,256.9	-861.6	454.8	407.4	9.610	
3,600.0	3,268.7	3,508.0	3,052.1	26.1	29.7	47.22	1,305.1	-895.7	468.7	419.7	9.577	

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



Anticollision Report



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Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design											Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard											Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning
3,700.0	3,354.8	3,607.1	3,131.5	27.0	30.8	47.18	1,353.3	-929.9	482.6	432.0	9.545	
3,800.0	3,440.8	3,706.1	3,211.0	28.0	31.9	47.15	1,401.4	-964.0	496.5	444.3	9.514	
3,900.0	3,526.9	3,805.1	3,290.5	28.9	33.0	47.11	1,449.6	-998.2	510.4	456.6	9.485	
4,000.0	3,612.9	3,904.2	3,370.0	29.9	34.2	47.08	1,497.8	-1,032.3	524.3	468.8	9.456	
4,100.0	3,698.9	4,003.2	3,449.5	30.9	35.3	47.05	1,545.9	-1,066.5	538.2	481.1	9.429	
4,200.0	3,785.0	4,102.2	3,529.0	31.8	36.4	47.02	1,594.1	-1,100.7	552.1	493.4	9.403	
4,300.0	3,871.0	4,201.2	3,608.5	32.8	37.5	46.99	1,642.3	-1,134.8	566.0	505.6	9.377	
4,400.0	3,957.1	4,300.3	3,688.0	33.7	38.6	46.96	1,690.4	-1,169.0	579.9	517.9	9.353	
4,500.0	4,043.1	4,399.3	3,767.5	34.7	39.8	46.94	1,738.6	-1,203.1	593.8	530.1	9.329	
4,600.0	4,129.2	4,498.3	3,847.0	35.7	40.9	46.91	1,786.8	-1,237.3	607.7	542.4	9.307	
4,700.0	4,215.2	4,597.4	3,926.5	36.6	42.0	46.89	1,835.0	-1,271.4	621.6	554.6	9.285	
4,800.0	4,301.3	4,696.4	4,006.0	37.6	43.1	46.87	1,883.1	-1,305.6	635.5	566.9	9.264	
4,900.0	4,387.3	4,795.4	4,085.5	38.6	44.3	46.85	1,931.3	-1,339.7	649.4	579.1	9.243	
5,000.0	4,473.3	4,894.5	4,165.0	39.5	45.4	46.83	1,979.5	-1,373.9	663.3	591.4	9.224	
5,100.0	4,559.4	4,993.5	4,244.5	40.5	46.5	46.81	2,027.6	-1,408.0	677.2	603.6	9.205	
5,200.0	4,645.4	5,092.5	4,324.0	41.5	47.7	46.79	2,075.8	-1,442.2	691.1	615.8	9.187	
5,300.0	4,731.5	5,191.5	4,403.5	42.5	48.8	46.77	2,124.0	-1,476.4	705.0	628.1	9.169	
5,400.0	4,817.5	5,290.6	4,483.0	43.4	49.9	46.75	2,172.1	-1,510.5	718.9	640.3	9.152	
5,500.0	4,903.6	5,389.6	4,562.5	44.4	51.0	46.76	2,220.3	-1,544.7	732.8	652.6	9.136	
5,600.0	4,989.9	5,488.3	4,641.8	45.3	52.2	46.89	2,268.3	-1,578.7	748.4	666.6	9.152	
5,700.0	5,080.2	5,587.9	4,721.7	46.1	53.3	46.83	2,316.7	-1,613.0	766.9	683.7	9.217	
5,800.0	5,171.4	5,721.6	4,831.4	46.9	54.7	46.55	2,379.0	-1,657.2	786.0	700.9	9.235	
5,900.0	5,264.3	5,857.2	4,947.1	47.6	56.1	46.31	2,436.7	-1,698.1	803.6	716.7	9.252	
6,000.0	5,358.7	5,994.6	5,068.4	48.1	57.2	46.09	2,489.3	-1,735.4	819.5	731.1	9.273	
6,100.0	5,454.5	6,133.7	5,194.9	48.7	58.3	45.90	2,536.5	-1,768.9	833.6	744.0	9.300	
6,200.0	5,551.4	6,274.3	5,326.1	49.1	59.2	45.73	2,577.7	-1,798.1	845.9	755.3	9.333	
6,300.0	5,649.4	6,416.2	5,461.4	49.4	59.9	45.58	2,612.6	-1,822.8	856.4	765.0	9.372	
6,400.0	5,748.1	6,559.3	5,600.2	49.7	60.5	45.46	2,640.8	-1,842.8	864.9	773.0	9.419	
6,500.0	5,847.4	6,703.2	5,741.8	49.9	60.9	45.36	2,661.9	-1,857.8	871.4	779.4	9.473	
6,600.0	5,947.1	6,847.9	5,885.4	50.0	61.2	45.28	2,675.9	-1,867.7	875.8	784.0	9.536	
6,700.0	6,047.0	6,993.0	6,030.3	50.1	61.3	45.22	2,682.4	-1,872.3	878.2	786.8	9.609	
6,800.0	6,147.0	7,109.8	6,147.0	50.1	61.4	0.23	2,682.9	-1,872.7	878.5	787.4	9.645	
6,900.0	6,247.0	7,209.8	6,247.0	50.1	61.4	0.23	2,682.9	-1,872.7	878.5	787.4	9.640	
7,000.0	6,347.0	7,309.8	6,347.0	50.1	61.4	0.23	2,682.9	-1,872.7	878.5	787.3	9.634	
7,100.0	6,447.0	7,409.8	6,447.0	50.2	61.4	0.23	2,682.9	-1,872.7	878.5	787.3	9.629	
7,200.0	6,547.0	7,509.8	6,547.0	50.2	61.4	0.23	2,682.9	-1,872.7	878.5	787.2	9.623	
7,300.0	6,647.0	7,609.8	6,647.0	50.2	61.4	0.23	2,682.9	-1,872.7	878.5	787.2	9.618	
7,400.0	6,747.0	7,709.8	6,747.0	50.2	61.5	0.23	2,682.9	-1,872.7	878.5	787.1	9.612	
7,500.0	6,847.0	7,809.8	6,847.0	50.2	61.5	0.23	2,682.9	-1,872.7	878.5	787.1	9.607	
7,600.0	6,947.0	7,909.8	6,947.0	50.3	61.5	0.23	2,682.9	-1,872.7	878.5	787.0	9.601	
7,700.0	7,047.0	8,009.8	7,047.0	50.3	61.5	0.23	2,682.9	-1,872.7	878.5	786.9	9.595	
7,800.0	7,147.0	8,109.8	7,147.0	50.3	61.5	0.23	2,682.9	-1,872.7	878.5	786.9	9.590	
7,900.0	7,247.0	8,209.8	7,247.0	50.3	61.5	0.23	2,682.9	-1,872.7	878.5	786.8	9.584	
8,000.0	7,347.0	8,309.8	7,347.0	50.4	61.6	0.23	2,682.9	-1,872.7	878.5	786.8	9.578	
8,100.0	7,447.0	8,409.8	7,447.0	50.4	61.6	0.23	2,682.9	-1,872.7	878.5	786.7	9.573	
8,200.0	7,547.0	8,509.8	7,547.0	50.4	61.6	0.23	2,682.9	-1,872.7	878.5	786.7	9.567	
8,300.0	7,647.0	8,609.8	7,647.0	50.4	61.6	0.23	2,682.9	-1,872.7	878.5	786.6	9.561	
8,400.0	7,747.0	8,709.8	7,747.0	50.4	61.6	0.23	2,682.9	-1,872.7	878.5	786.6	9.555	
8,500.0	7,847.0	8,809.8	7,847.0	50.5	61.6	0.23	2,682.9	-1,872.7	878.5	786.5	9.550	
8,600.0	7,947.0	8,821.7	7,859.0	50.5	61.6	0.23	2,682.9	-1,872.7	882.9	789.1	9.417	
8,700.0	8,047.0	8,821.7	7,859.0	50.5	61.6	0.23	2,682.9	-1,872.7	898.4	803.6	9.475	
8,800.0	8,147.0	8,821.7	7,859.0	50.5	61.6	0.23	2,682.9	-1,872.7	924.5	829.6	9.737	

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



Anticollision Report



Company:	Laramie Energy, LLC	Local Co-ordinate Reference:	Well Laramie 29-01 0993-20-14E - Slot A-7
Project:	Mesa County, CO	TVD Reference:	RKB=30' @ 7493.0usft (TBD)
Reference Site:	Laramie 0993-29-01	MD Reference:	RKB=30' @ 7493.0usft (TBD)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Laramie 29-01 0993-20-14E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design Laramie 0993-29-01 - Laramie 29-01 0993-20-11E - OH - Design #1											Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard											Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning
8,900.0	8,247.0	8,821.7	7,859.0	50.6	61.6	0.23	2,682.9	-1,872.7	960.4	866.1	10.186	
9,000.0	8,347.0	8,821.7	7,859.0	50.6	61.6	0.23	2,682.9	-1,872.7	1,005.0	911.9	10.803	
9,100.0	8,447.0	8,821.7	7,859.0	50.6	61.6	0.23	2,682.9	-1,872.7	1,057.1	965.8	11.570	
9,200.0	8,547.0	8,821.7	7,859.0	50.6	61.6	0.23	2,682.9	-1,872.7	1,115.9	1,026.4	12.472	
9,300.0	8,647.0	8,821.7	7,859.0	50.7	61.6	0.23	2,682.9	-1,872.7	1,180.2	1,092.7	13.492	
9,310.0	8,657.0	8,821.7	7,859.0	50.7	61.6	0.23	2,682.9	-1,872.7	1,186.8	1,099.6	13.600	



Anticollision Report



Company:	Laramie Energy, LLC	Local Co-ordinate Reference:	Well Laramie 29-01 0993-20-14E - Slot A-7
Project:	Mesa County, CO	TVD Reference:	RKB=30' @ 7493.0usft (TBD)
Reference Site:	Laramie 0993-29-01	MD Reference:	RKB=30' @ 7493.0usft (TBD)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Laramie 29-01 0993-20-14E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	-46.26	22.2	-23.2	32.1				
100.0	100.0	100.0	100.0	0.4	0.4	-46.26	22.2	-23.2	32.1	31.3	40.565		
200.0	200.0	200.0	200.0	1.2	1.2	-46.26	22.2	-23.2	32.1	29.7	13.006		
205.6	205.6	205.6	205.6	1.3	1.3	-46.26	22.2	-23.2	32.1	29.6	12.753	CC	
300.0	300.0	299.7	299.7	1.7	1.6	-46.36	22.3	-23.3	32.3	29.0	9.818	ES	
400.0	400.0	398.3	398.3	1.9	2.6	37.07	23.3	-26.3	34.8	30.3	7.797		
500.0	499.9	496.8	496.4	3.1	3.4	36.82	25.9	-33.3	38.3	32.2	6.261		
600.0	599.5	595.0	594.0	4.5	4.0	40.48	31.4	-42.9	42.5	34.9	5.630		
700.0	698.7	692.8	690.7	4.7	4.9	37.62	40.4	-54.8	47.7	39.2	5.641		
800.0	797.4	790.4	786.4	5.3	5.8	34.13	52.8	-68.8	53.3	43.6	5.490		
900.0	895.4	887.7	881.1	6.0	6.6	32.81	68.6	-84.9	59.3	48.3	5.365		
1,000.0	992.6	984.8	974.5	6.8	7.4	32.60	87.8	-103.1	65.5	53.2	5.325	SF	
1,100.0	1,088.7	1,081.7	1,066.5	7.5	8.1	32.98	110.2	-123.4	71.9	58.4	5.340		
1,200.0	1,183.6	1,178.3	1,157.0	8.1	8.8	33.67	135.9	-145.6	78.4	63.8	5.384		
1,300.0	1,277.1	1,274.7	1,245.8	8.8	9.4	34.53	164.7	-169.7	85.0	69.4	5.438		
1,400.0	1,369.1	1,370.9	1,332.7	9.4	10.0	35.47	196.6	-195.7	91.7	75.0	5.491		
1,500.0	1,459.2	1,466.9	1,417.7	10.1	10.6	36.44	231.6	-223.5	98.4	80.6	5.537		
1,600.0	1,547.5	1,562.8	1,500.6	10.7	11.2	37.44	269.5	-253.1	105.1	86.3	5.570		
1,700.0	1,633.9	1,658.4	1,581.2	11.0	11.8	38.69	310.2	-284.4	112.2	92.5	5.671		
1,800.0	1,719.9	1,755.5	1,661.2	11.4	12.2	39.60	354.2	-317.7	122.2	101.4	5.872		
1,900.0	1,806.0	1,855.0	1,742.7	11.8	12.5	40.26	399.7	-352.1	132.7	110.7	6.044		
2,000.0	1,892.0	1,954.4	1,824.1	12.2	12.9	40.82	445.2	-386.5	143.2	120.0	6.178		
2,100.0	1,978.0	2,053.9	1,905.6	12.7	13.3	41.31	490.6	-420.9	153.7	129.2	6.282		
2,200.0	2,064.1	2,153.3	1,987.1	13.3	13.9	41.73	536.1	-455.2	164.3	138.4	6.363		
2,300.0	2,150.1	2,252.7	2,068.6	14.1	14.7	42.11	581.6	-489.6	174.8	147.6	6.428		
2,400.0	2,236.2	2,352.2	2,150.0	14.9	15.7	42.44	627.0	-524.0	185.3	156.7	6.477		
2,500.0	2,322.2	2,451.6	2,231.5	15.8	16.7	42.73	672.5	-558.4	195.9	165.8	6.514		
2,600.0	2,408.3	2,551.0	2,313.0	16.7	17.8	43.00	718.0	-592.7	206.5	174.9	6.543		
2,700.0	2,494.3	2,650.5	2,394.5	17.6	18.8	43.24	763.4	-627.1	217.0	184.0	6.564		
2,800.0	2,580.4	2,749.9	2,476.0	18.5	19.9	43.45	808.9	-661.5	227.6	193.0	6.580		
2,900.0	2,666.4	2,849.3	2,557.4	19.4	21.0	43.65	854.4	-695.9	238.2	202.0	6.592		
3,000.0	2,752.5	2,948.8	2,638.9	20.4	22.0	43.83	899.9	-730.2	248.7	211.0	6.600		
3,100.0	2,838.5	3,048.2	2,720.4	21.3	23.1	44.00	945.3	-764.6	259.3	220.0	6.605		
3,200.0	2,924.5	3,147.7	2,801.9	22.3	24.2	44.15	990.8	-799.0	269.9	229.0	6.608		
3,300.0	3,010.6	3,247.1	2,883.3	23.2	25.2	44.29	1,036.3	-833.4	280.5	238.0	6.609		
3,400.0	3,096.6	3,346.5	2,964.8	24.1	26.3	44.42	1,081.7	-867.7	291.0	247.0	6.609		
3,500.0	3,182.7	3,446.0	3,046.3	25.1	27.4	44.55	1,127.2	-902.1	301.6	256.0	6.607		
3,600.0	3,268.7	3,545.4	3,127.8	26.1	28.5	44.66	1,172.7	-936.5	312.2	264.9	6.605		
3,700.0	3,354.8	3,644.8	3,209.3	27.0	29.6	44.77	1,218.1	-970.9	322.8	273.9	6.602		
3,800.0	3,440.8	3,744.3	3,290.7	28.0	30.6	44.87	1,263.6	-1,005.2	333.4	282.8	6.598		
3,900.0	3,526.9	3,843.7	3,372.2	28.9	31.7	44.96	1,309.1	-1,039.6	343.9	291.8	6.594		
4,000.0	3,612.9	3,943.2	3,453.7	29.9	32.8	45.05	1,354.5	-1,074.0	354.5	300.7	6.590		
4,100.0	3,698.9	4,042.6	3,535.2	30.9	33.9	45.13	1,400.0	-1,108.4	365.1	309.7	6.585		
4,200.0	3,785.0	4,142.0	3,616.6	31.8	35.0	45.21	1,445.5	-1,142.7	375.7	318.6	6.580		
4,300.0	3,871.0	4,241.5	3,698.1	32.8	36.0	45.28	1,490.9	-1,177.1	386.3	327.5	6.576		
4,400.0	3,957.1	4,340.9	3,779.6	33.7	37.1	45.35	1,536.4	-1,211.5	396.9	336.5	6.571		
4,500.0	4,043.1	4,440.3	3,861.1	34.7	38.2	45.42	1,581.9	-1,245.9	407.5	345.4	6.565		
4,600.0	4,129.2	4,539.8	3,942.6	35.7	39.3	45.48	1,627.4	-1,280.2	418.1	354.3	6.560		
4,700.0	4,215.2	4,639.2	4,024.0	36.6	40.4	45.54	1,672.8	-1,314.6	428.7	363.3	6.555		
4,800.0	4,301.3	4,738.6	4,105.5	37.6	41.5	45.60	1,718.3	-1,349.0	439.2	372.2	6.550		
4,900.0	4,387.3	4,838.1	4,187.0	38.6	42.6	45.65	1,763.8	-1,383.4	449.8	381.1	6.545		
5,000.0	4,473.3	4,937.5	4,268.5	39.5	43.6	45.70	1,809.2	-1,417.7	460.4	390.0	6.540		

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



Anticollision Report



Company:	Laramie Energy, LLC	Local Co-ordinate Reference:	Well Laramie 29-01 0993-20-14E - Slot A-7
Project:	Mesa County, CO	TVD Reference:	RKB=30' @ 7493.0usft (TBD)
Reference Site:	Laramie 0993-29-01	MD Reference:	RKB=30' @ 7493.0usft (TBD)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Laramie 29-01 0993-20-14E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
5,100.0	4,559.4	5,037.0	4,349.9	40.5	44.7	45.75	1,854.7	-1,452.1	471.0	398.9	6.535		
5,200.0	4,645.4	5,136.4	4,431.4	41.5	45.8	45.80	1,900.2	-1,486.5	481.6	407.9	6.531		
5,300.0	4,731.5	5,235.8	4,512.9	42.5	46.9	45.85	1,945.6	-1,520.9	492.2	416.8	6.526		
5,400.0	4,817.5	5,335.3	4,594.4	43.4	48.0	45.89	1,991.1	-1,555.2	502.8	425.7	6.521		
5,500.0	4,903.6	5,434.7	4,675.8	44.4	49.1	45.94	2,036.6	-1,589.6	513.4	434.6	6.517		
5,600.0	4,990.9	5,533.9	4,757.1	45.3	50.2	46.01	2,081.9	-1,623.9	525.7	445.4	6.544		
5,700.0	5,080.2	5,652.6	4,855.9	46.1	51.4	45.85	2,134.5	-1,663.7	539.4	457.3	6.567		
5,800.0	5,171.4	5,774.4	4,960.5	46.9	52.6	45.70	2,184.2	-1,701.2	552.1	468.2	6.583		
5,900.0	5,264.3	5,897.1	5,069.2	47.6	53.6	45.56	2,229.6	-1,735.6	563.6	478.3	6.601		
6,000.0	5,358.7	6,020.7	5,181.5	48.1	54.5	45.44	2,270.7	-1,766.6	574.1	487.4	6.622		
6,100.0	5,454.5	6,145.0	5,297.2	48.7	55.4	45.34	2,307.0	-1,794.0	583.3	495.5	6.645		
6,200.0	5,551.4	6,270.1	5,415.8	49.1	56.0	45.24	2,338.4	-1,817.8	591.3	502.6	6.670		
6,300.0	5,649.4	6,395.7	5,537.0	49.4	56.6	45.16	2,364.8	-1,837.7	598.0	508.7	6.698		
6,400.0	5,748.1	6,521.8	5,660.3	49.7	57.1	45.08	2,385.9	-1,853.7	603.5	513.8	6.729		
6,500.0	5,847.4	6,648.4	5,785.3	49.9	57.4	45.02	2,401.6	-1,865.5	607.7	517.8	6.763		
6,600.0	5,947.1	6,775.2	5,911.5	50.0	57.6	44.96	2,411.8	-1,873.2	610.5	520.8	6.800		
6,700.0	6,047.0	6,902.2	6,038.4	50.1	57.7	44.91	2,416.4	-1,876.7	612.1	522.6	6.843		
6,800.0	6,147.0	7,010.9	6,147.0	50.1	57.7	-0.08	2,416.6	-1,876.9	612.3	523.0	6.861		
6,900.0	6,247.0	7,110.9	6,247.0	50.1	57.7	-0.08	2,416.6	-1,876.9	612.3	523.0	6.857		
7,000.0	6,347.0	7,210.9	6,347.0	50.1	57.8	-0.08	2,416.6	-1,876.9	612.3	522.9	6.853		
7,100.0	6,447.0	7,310.9	6,447.0	50.2	57.8	-0.08	2,416.6	-1,876.9	612.3	522.9	6.849		
7,200.0	6,547.0	7,410.9	6,547.0	50.2	57.8	-0.08	2,416.6	-1,876.9	612.3	522.8	6.845		
7,300.0	6,647.0	7,510.9	6,647.0	50.2	57.8	-0.08	2,416.6	-1,876.9	612.3	522.8	6.841		
7,400.0	6,747.0	7,610.9	6,747.0	50.2	57.8	-0.08	2,416.6	-1,876.9	612.3	522.7	6.837		
7,500.0	6,847.0	7,710.9	6,847.0	50.2	57.8	-0.08	2,416.6	-1,876.9	612.3	522.6	6.833		
7,600.0	6,947.0	7,810.9	6,947.0	50.3	57.9	-0.08	2,416.6	-1,876.9	612.3	522.6	6.828		
7,700.0	7,047.0	7,910.9	7,047.0	50.3	57.9	-0.08	2,416.6	-1,876.9	612.3	522.5	6.824		
7,800.0	7,147.0	8,010.9	7,147.0	50.3	57.9	-0.08	2,416.6	-1,876.9	612.3	522.5	6.820		
7,900.0	7,247.0	8,110.9	7,247.0	50.3	57.9	-0.08	2,416.6	-1,876.9	612.3	522.4	6.816		
8,000.0	7,347.0	8,210.9	7,347.0	50.4	57.9	-0.08	2,416.6	-1,876.9	612.3	522.4	6.812		
8,100.0	7,447.0	8,310.9	7,447.0	50.4	57.9	-0.08	2,416.6	-1,876.9	612.3	522.3	6.808		
8,200.0	7,547.0	8,410.9	7,547.0	50.4	58.0	-0.08	2,416.6	-1,876.9	612.3	522.3	6.803		
8,300.0	7,647.0	8,510.9	7,647.0	50.4	58.0	-0.08	2,416.6	-1,876.9	612.3	522.2	6.799		
8,400.0	7,747.0	8,610.9	7,747.0	50.4	58.0	-0.08	2,416.6	-1,876.9	612.3	522.1	6.795		
8,500.0	7,847.0	8,710.9	7,847.0	50.5	58.0	-0.08	2,416.6	-1,876.9	612.3	522.1	6.790		
8,600.0	7,947.0	8,810.9	7,947.0	50.5	58.0	-0.08	2,416.6	-1,876.9	612.3	522.0	6.786		
8,700.0	8,047.0	8,910.9	8,047.0	50.5	58.1	-0.08	2,416.6	-1,876.9	612.3	522.0	6.782		
8,800.0	8,147.0	9,010.9	8,147.0	50.5	58.1	-0.08	2,416.6	-1,876.9	612.3	521.9	6.778		
8,900.0	8,247.0	9,110.9	8,247.0	50.6	58.1	-0.08	2,416.6	-1,876.9	612.3	521.9	6.773		
9,000.0	8,347.0	9,210.9	8,347.0	50.6	58.1	-0.08	2,416.6	-1,876.9	612.3	521.8	6.769		
9,100.0	8,447.0	9,310.9	8,447.0	50.6	58.1	-0.08	2,416.6	-1,876.9	612.3	521.7	6.765		
9,200.0	8,547.0	9,410.9	8,547.0	50.6	58.2	-0.08	2,416.6	-1,876.9	612.3	521.7	6.760		
9,300.0	8,647.0	9,510.9	8,647.0	50.7	58.2	-0.08	2,416.6	-1,876.9	612.3	521.6	6.756		
9,310.0	8,657.0	9,520.8	8,657.0	50.7	58.2	-0.08	2,416.6	-1,876.9	612.3	521.6	6.755		



Anticollision Report



Company:	Laramie Energy, LLC	Local Co-ordinate Reference:	Well Laramie 29-01 0993-20-14E - Slot A-7
Project:	Mesa County, CO	TVD Reference:	RKB=30' @ 7493.0usft (TBD)
Reference Site:	Laramie 0993-29-01	MD Reference:	RKB=30' @ 7493.0usft (TBD)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Laramie 29-01 0993-20-14E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft	
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft	
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	-46.54	11.1	-11.7	16.1					
100.0	100.0	100.0	100.0	0.4	0.4	-46.54	11.1	-11.7	16.1	15.3	20.336			
200.0	200.0	200.0	200.0	1.2	1.2	-46.54	11.1	-11.7	16.1	13.6	6.520			
213.0	213.0	213.0	213.0	1.3	1.3	-46.54	11.1	-11.7	16.1	13.5	6.210	CC		
300.0	300.0	299.9	299.9	1.7	1.6	-46.57	11.1	-11.7	16.1	12.7	4.769	ES		
400.0	400.0	399.2	399.2	1.9	2.5	35.96	11.9	-14.2	18.1	13.7	4.108			
500.0	499.9	498.4	498.1	3.1	4.0	35.53	14.0	-20.7	20.9	14.2	3.131			
600.0	599.5	597.5	596.5	4.5	4.6	37.51	17.5	-31.2	24.2	16.1	2.982	SF		
700.0	698.7	696.2	694.2	4.7	5.0	34.05	24.0	-44.4	28.2	19.6	3.303			
800.0	797.4	794.8	791.1	5.3	5.8	30.02	34.0	-59.9	32.3	22.6	3.330			
900.0	895.4	893.2	886.9	6.0	6.6	28.19	47.5	-77.6	36.6	25.5	3.313			
1,000.0	992.6	991.4	981.6	6.8	7.3	27.54	64.4	-97.4	40.9	28.6	3.320			
1,100.0	1,088.7	1,089.5	1,075.0	7.5	8.0	27.56	84.7	-119.4	45.3	31.8	3.345			
1,200.0	1,183.6	1,187.4	1,166.8	8.1	8.7	27.97	108.4	-143.4	49.8	35.1	3.382			
1,300.0	1,277.1	1,285.1	1,257.1	8.8	9.3	28.61	135.3	-169.4	54.3	38.4	3.421			
1,400.0	1,369.1	1,382.6	1,345.5	9.4	9.9	29.39	165.4	-197.3	58.8	41.8	3.461			
1,500.0	1,459.2	1,480.0	1,432.0	10.1	10.5	30.27	198.7	-227.2	63.4	45.2	3.497			
1,600.0	1,547.5	1,577.2	1,516.4	10.7	11.1	31.21	235.0	-258.9	67.9	48.7	3.528			
1,700.0	1,633.9	1,675.1	1,599.4	11.0	11.5	32.47	274.5	-292.5	72.7	52.7	3.632			
1,800.0	1,719.9	1,774.9	1,683.5	11.4	11.9	33.91	315.6	-327.3	77.9	57.0	3.722			
1,900.0	1,806.0	1,874.7	1,767.6	11.8	12.2	35.18	356.7	-362.1	83.2	61.2	3.785			
2,000.0	1,892.0	1,974.6	1,851.7	12.2	12.7	36.29	397.8	-396.8	88.5	65.4	3.828			
2,100.0	1,978.0	2,074.4	1,935.8	12.7	13.2	37.28	438.9	-431.6	93.8	69.5	3.856			
2,200.0	2,064.1	2,174.3	2,019.8	13.3	13.8	38.16	480.0	-466.4	99.2	73.6	3.872			
2,300.0	2,150.1	2,274.1	2,103.9	14.1	14.6	38.95	521.1	-501.2	104.5	77.6	3.880			
2,400.0	2,236.2	2,374.0	2,188.0	14.9	15.5	39.66	562.2	-536.0	109.9	81.6	3.881			
2,500.0	2,322.2	2,473.8	2,272.1	15.8	16.4	40.31	603.3	-570.8	115.4	85.6	3.876			
2,600.0	2,408.3	2,573.7	2,356.2	16.7	17.4	40.89	644.4	-605.5	120.8	89.6	3.868			
2,700.0	2,494.3	2,673.5	2,440.3	17.6	18.4	41.43	685.5	-640.3	126.2	93.5	3.858			
2,800.0	2,580.4	2,773.4	2,524.3	18.5	19.4	41.93	726.6	-675.1	131.7	97.4	3.846			
2,900.0	2,666.4	2,873.2	2,608.4	19.4	20.4	42.38	767.7	-709.9	137.1	101.3	3.832			
3,000.0	2,752.5	2,973.0	2,692.5	20.4	21.4	42.80	808.8	-744.7	142.6	105.2	3.818			
3,100.0	2,838.5	3,072.9	2,776.6	21.3	22.4	43.19	849.9	-779.5	148.0	109.1	3.804			
3,200.0	2,924.5	3,172.7	2,860.7	22.3	23.4	43.55	891.0	-814.2	153.5	113.0	3.789			
3,300.0	3,010.6	3,272.6	2,944.8	23.2	24.4	43.88	932.1	-849.0	159.0	116.9	3.774			
3,400.0	3,096.6	3,372.4	3,028.9	24.1	25.4	44.20	973.2	-883.8	164.5	120.7	3.760			
3,500.0	3,182.7	3,472.3	3,112.9	25.1	26.4	44.49	1,014.3	-918.6	170.0	124.6	3.746			
3,600.0	3,268.7	3,572.1	3,197.0	26.1	27.4	44.76	1,055.4	-953.4	175.5	128.5	3.732			
3,700.0	3,354.8	3,672.0	3,281.1	27.0	28.4	45.02	1,096.5	-988.1	181.0	132.3	3.718			
3,800.0	3,440.8	3,771.8	3,365.2	28.0	29.5	45.26	1,137.6	-1,022.9	186.5	136.1	3.705			
3,900.0	3,526.9	3,871.7	3,449.3	28.9	30.5	45.49	1,178.7	-1,057.7	192.0	140.0	3.692			
4,000.0	3,612.9	3,971.5	3,533.4	29.9	31.5	45.71	1,219.8	-1,092.5	197.5	143.8	3.680			
4,100.0	3,698.9	4,071.3	3,617.5	30.9	32.5	45.91	1,260.9	-1,127.3	203.0	147.7	3.668			
4,200.0	3,785.0	4,171.2	3,701.5	31.8	33.5	46.11	1,302.0	-1,162.1	208.5	151.5	3.656			
4,300.0	3,871.0	4,271.0	3,785.6	32.8	34.5	46.29	1,343.1	-1,196.8	214.0	155.3	3.645			
4,400.0	3,957.1	4,370.9	3,869.7	33.7	35.6	46.47	1,384.2	-1,231.6	219.6	159.1	3.635			
4,500.0	4,043.1	4,470.7	3,953.8	34.7	36.6	46.63	1,425.3	-1,266.4	225.1	163.0	3.624			
4,600.0	4,129.2	4,570.6	4,037.9	35.7	37.6	46.79	1,466.4	-1,301.2	230.6	166.8	3.614			
4,700.0	4,215.2	4,670.4	4,122.0	36.6	38.6	46.94	1,507.5	-1,336.0	236.1	170.6	3.605			
4,800.0	4,301.3	4,770.3	4,206.0	37.6	39.6	47.08	1,548.6	-1,370.7	241.6	174.4	3.596			
4,900.0	4,387.3	4,870.1	4,290.1	38.6	40.7	47.22	1,589.7	-1,405.5	247.2	178.3	3.587			
5,000.0	4,473.3	4,970.0	4,374.2	39.5	41.7	47.35	1,630.8	-1,440.3	252.7	182.1	3.578			

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



Anticollision Report



Company:	Laramie Energy, LLC	Local Co-ordinate Reference:	Well Laramie 29-01 0993-20-14E - Slot A-7
Project:	Mesa County, CO	TVD Reference:	RKB=30' @ 7493.0usft (TBD)
Reference Site:	Laramie 0993-29-01	MD Reference:	RKB=30' @ 7493.0usft (TBD)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Laramie 29-01 0993-20-14E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
5,100.0	4,559.4	5,069.8	4,458.3	40.5	42.7	47.48	1,671.9	-1,475.1	258.2	185.9	3.570		
5,200.0	4,645.4	5,169.6	4,542.4	41.5	43.7	47.60	1,713.0	-1,509.9	263.8	189.7	3.562		
5,300.0	4,731.5	5,269.5	4,626.5	42.5	44.8	47.71	1,754.0	-1,544.7	269.3	193.5	3.554		
5,400.0	4,817.5	5,369.3	4,710.6	43.4	45.8	47.82	1,795.1	-1,579.4	274.8	197.3	3.547		
5,500.0	4,903.6	5,469.2	4,794.6	44.4	46.8	47.94	1,836.2	-1,614.2	280.4	201.2	3.540		
5,600.0	4,990.9	5,573.7	4,883.0	45.3	47.9	47.86	1,878.9	-1,650.3	287.2	206.3	3.551		
5,700.0	5,080.2	5,683.6	4,978.2	46.1	48.9	47.70	1,920.7	-1,685.7	293.9	211.4	3.561		
5,800.0	5,171.4	5,793.7	5,076.2	46.9	49.8	47.56	1,959.1	-1,718.2	300.1	216.1	3.571		
5,900.0	5,264.3	5,904.2	5,176.8	47.6	50.7	47.43	1,994.0	-1,747.7	305.8	220.4	3.582		
6,000.0	5,358.7	6,015.0	5,279.7	48.1	51.4	47.31	2,025.2	-1,774.2	310.8	224.3	3.593		
6,100.0	5,454.5	6,126.1	5,384.8	48.7	52.0	47.21	2,052.7	-1,797.4	315.3	227.9	3.605		
6,200.0	5,551.4	6,237.3	5,491.7	49.1	52.5	47.11	2,076.2	-1,817.3	319.2	231.0	3.618		
6,300.0	5,649.4	6,348.8	5,600.1	49.4	53.0	47.03	2,095.8	-1,833.9	322.5	233.7	3.631		
6,400.0	5,748.1	6,460.4	5,709.8	49.7	53.3	46.95	2,111.4	-1,847.1	325.1	235.9	3.645		
6,500.0	5,847.4	6,572.2	5,820.6	49.9	53.6	46.88	2,122.9	-1,856.8	327.2	237.8	3.660		
6,600.0	5,947.1	6,684.0	5,932.0	50.0	53.8	46.82	2,130.3	-1,863.1	328.6	239.2	3.675		
6,700.0	6,047.0	6,795.9	6,043.8	50.1	53.8	46.76	2,133.5	-1,865.8	329.3	240.1	3.692		
6,800.0	6,147.0	6,899.2	6,147.0	50.1	53.9	1.78	2,133.7	-1,865.9	329.4	240.3	3.698		
6,900.0	6,247.0	6,999.2	6,247.0	50.1	53.9	1.78	2,133.7	-1,865.9	329.4	240.3	3.696		
7,000.0	6,347.0	7,099.2	6,347.0	50.1	53.9	1.78	2,133.7	-1,865.9	329.4	240.2	3.694		
7,100.0	6,447.0	7,199.2	6,447.0	50.2	53.9	1.78	2,133.7	-1,865.9	329.4	240.2	3.691		
7,200.0	6,547.0	7,299.2	6,547.0	50.2	53.9	1.78	2,133.7	-1,865.9	329.4	240.1	3.689		
7,300.0	6,647.0	7,399.2	6,647.0	50.2	53.9	1.78	2,133.7	-1,865.9	329.4	240.1	3.687		
7,400.0	6,747.0	7,499.2	6,747.0	50.2	54.0	1.78	2,133.7	-1,865.9	329.4	240.0	3.685		
7,500.0	6,847.0	7,599.2	6,847.0	50.2	54.0	1.78	2,133.7	-1,865.9	329.4	240.0	3.682		
7,600.0	6,947.0	7,699.2	6,947.0	50.3	54.0	1.78	2,133.7	-1,865.9	329.4	239.9	3.680		
7,700.0	7,047.0	7,799.2	7,047.0	50.3	54.0	1.78	2,133.7	-1,865.9	329.4	239.8	3.678		
7,800.0	7,147.0	7,899.2	7,147.0	50.3	54.0	1.78	2,133.7	-1,865.9	329.4	239.8	3.676		
7,900.0	7,247.0	7,999.2	7,247.0	50.3	54.1	1.78	2,133.7	-1,865.9	329.4	239.7	3.673		
8,000.0	7,347.0	8,099.2	7,347.0	50.4	54.1	1.78	2,133.7	-1,865.9	329.4	239.7	3.671		
8,100.0	7,447.0	8,199.2	7,447.0	50.4	54.1	1.78	2,133.7	-1,865.9	329.4	239.6	3.669		
8,200.0	7,547.0	8,299.2	7,547.0	50.4	54.1	1.78	2,133.7	-1,865.9	329.4	239.6	3.667		
8,300.0	7,647.0	8,399.2	7,647.0	50.4	54.1	1.78	2,133.7	-1,865.9	329.4	239.5	3.664		
8,400.0	7,747.0	8,499.2	7,747.0	50.4	54.2	1.78	2,133.7	-1,865.9	329.4	239.5	3.662		
8,500.0	7,847.0	8,599.2	7,847.0	50.5	54.2	1.78	2,133.7	-1,865.9	329.4	239.4	3.660		
8,600.0	7,947.0	8,601.1	7,849.0	50.5	54.2	1.78	2,133.7	-1,865.9	343.7	251.7	3.736		
8,700.0	8,047.0	8,601.1	7,849.0	50.5	54.2	1.78	2,133.7	-1,865.9	384.4	295.7	4.335		
8,800.0	8,147.0	8,601.1	7,849.0	50.5	54.2	1.78	2,133.7	-1,865.9	444.2	361.1	5.345		
8,900.0	8,247.0	8,601.1	7,849.0	50.6	54.2	1.78	2,133.7	-1,865.9	516.7	439.1	6.662		
9,000.0	8,347.0	8,601.1	7,849.0	50.6	54.2	1.78	2,133.7	-1,865.9	597.1	524.3	8.200		
9,100.0	8,447.0	8,601.1	7,849.0	50.6	54.2	1.78	2,133.7	-1,865.9	682.8	613.8	9.897		
9,200.0	8,547.0	8,601.1	7,849.0	50.6	54.2	1.78	2,133.7	-1,865.9	771.9	705.9	11.706		
9,300.0	8,647.0	8,601.1	7,849.0	50.7	54.2	1.78	2,133.7	-1,865.9	863.4	799.8	13.591		
9,310.0	8,657.0	8,601.1	7,849.0	50.7	54.2	1.78	2,133.7	-1,865.9	872.6	809.3	13.782		

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



Anticollision Report



Company:	Laramie Energy, LLC	Local Co-ordinate Reference:	Well Laramie 29-01 0993-20-14E - Slot A-7
Project:	Mesa County, CO	TVD Reference:	RKB=30' @ 7493.0usft (TBD)
Reference Site:	Laramie 0993-29-01	MD Reference:	RKB=30' @ 7493.0usft (TBD)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Laramie 29-01 0993-20-14E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft	
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft	
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	133.28	-10.9	11.6	15.9					
100.0	100.0	100.0	100.0	0.4	0.4	133.28	-10.9	11.6	15.9	15.2	20.131			
200.0	200.0	200.0	200.0	1.2	1.2	133.28	-10.9	11.6	15.9	13.5	6.454			
300.0	300.0	300.0	300.0	1.7	1.7	133.28	-10.9	11.6	15.9	12.5	4.596 CC			
300.3	300.3	300.3	300.3	1.7	1.7	133.28	-10.9	11.6	15.9	12.5	4.594			
400.0	400.0	400.0	400.0	1.9	2.1	-142.90	-10.9	11.6	16.4	12.3	4.033 ES			
500.0	499.9	500.4	500.4	3.1	2.4	-148.07	-11.0	10.4	19.1	13.8	3.608			
600.0	599.5	601.0	600.8	4.5	3.7	-150.48	-11.5	4.9	22.4	15.1	3.041			
700.0	698.7	701.8	701.2	4.7	4.2	-158.66	-12.1	-4.9	26.2	18.3	3.297			
800.0	797.4	803.0	801.4	5.3	4.7	-164.89	-10.2	-18.0	30.1	21.1	3.358			
900.0	895.4	904.3	901.3	6.0	5.4	-167.95	-4.8	-34.0	33.8	23.4	3.234			
1,000.0	992.6	1,005.8	1,000.6	6.8	6.2	-169.13	3.8	-52.9	37.5	25.6	3.138			
1,100.0	1,088.7	1,107.4	1,099.2	7.5	6.9	-169.12	15.9	-74.7	41.2	27.8	3.077			
1,200.0	1,183.6	1,209.2	1,196.8	8.1	7.6	-168.31	31.3	-99.4	44.9	30.1	3.045			
1,300.0	1,277.1	1,311.2	1,293.1	8.8	8.3	-166.96	50.0	-126.9	48.6	32.6	3.035 SF			
1,400.0	1,369.1	1,413.4	1,388.1	9.4	9.0	-165.22	72.1	-157.3	52.3	35.1	3.042			
1,500.0	1,459.2	1,515.6	1,481.5	10.1	9.7	-163.20	97.4	-190.3	56.2	37.9	3.063			
1,600.0	1,547.5	1,618.1	1,573.2	10.7	10.3	-160.98	125.9	-226.0	60.2	40.8	3.101			
1,700.0	1,633.9	1,718.7	1,661.7	11.0	10.6	-158.53	156.4	-263.1	64.8	44.8	3.240			
1,800.0	1,719.9	1,818.6	1,749.3	11.4	11.0	-156.13	186.8	-300.0	70.1	49.3	3.377			
1,900.0	1,806.0	1,918.4	1,837.0	11.8	11.3	-154.06	217.2	-336.9	75.4	53.8	3.488			
2,000.0	1,892.0	2,018.2	1,924.6	12.2	11.7	-152.27	247.6	-373.8	80.8	58.2	3.578			
2,100.0	1,978.0	2,118.0	2,012.2	12.7	12.2	-150.71	278.0	-410.6	86.3	62.7	3.651			
2,200.0	2,064.1	2,217.9	2,099.9	13.3	12.7	-149.33	308.4	-447.5	91.9	67.1	3.702			
2,300.0	2,150.1	2,317.7	2,187.5	14.1	13.3	-148.11	338.7	-484.4	97.5	71.4	3.745			
2,400.0	2,236.2	2,417.5	2,275.2	14.9	14.1	-147.03	369.1	-521.3	103.1	75.8	3.777			
2,500.0	2,322.2	2,517.3	2,362.8	15.8	14.9	-146.05	399.5	-558.2	108.8	80.1	3.800			
2,600.0	2,408.3	2,617.2	2,450.5	16.7	15.7	-145.18	429.9	-595.1	114.5	84.5	3.817			
2,700.0	2,494.3	2,717.0	2,538.1	17.6	16.5	-144.38	460.3	-632.0	120.2	88.8	3.829			
2,800.0	2,580.4	2,816.8	2,625.7	18.5	17.4	-143.66	490.7	-668.8	125.9	93.1	3.837			
2,900.0	2,666.4	2,916.6	2,713.4	19.4	18.3	-143.00	521.1	-705.7	131.7	97.4	3.841			
3,000.0	2,752.5	3,016.4	2,801.0	20.4	19.1	-142.40	551.4	-742.6	137.5	101.7	3.843			
3,100.0	2,838.5	3,116.3	2,888.7	21.3	20.0	-141.85	581.8	-779.5	143.2	106.0	3.843			
3,200.0	2,924.5	3,216.1	2,976.3	22.3	20.9	-141.33	612.2	-816.4	149.0	110.3	3.842			
3,300.0	3,010.6	3,315.9	3,063.9	23.2	21.8	-140.86	642.6	-853.3	154.9	114.5	3.840			
3,400.0	3,096.6	3,415.7	3,151.6	24.1	22.7	-140.42	673.0	-890.2	160.7	118.8	3.836			
3,500.0	3,182.7	3,515.6	3,239.2	25.1	23.6	-140.02	703.4	-927.0	166.5	123.1	3.832			
3,600.0	3,268.7	3,615.4	3,326.9	26.1	24.5	-139.63	733.7	-963.9	172.4	127.3	3.828			
3,700.0	3,354.8	3,715.2	3,414.5	27.0	25.3	-139.28	764.1	-1,000.8	178.2	131.6	3.823			
3,800.0	3,440.8	3,815.0	3,502.1	28.0	26.2	-138.95	794.5	-1,037.7	184.0	135.8	3.818			
3,900.0	3,526.9	3,914.9	3,589.8	28.9	27.1	-138.63	824.9	-1,074.6	189.9	140.1	3.813			
4,000.0	3,612.9	4,014.7	3,677.4	29.9	28.0	-138.34	855.3	-1,111.5	195.8	144.4	3.808			
4,100.0	3,698.9	4,114.5	3,765.1	30.9	28.9	-138.06	885.7	-1,148.4	201.6	148.6	3.803			
4,200.0	3,785.0	4,214.3	3,852.7	31.8	29.9	-137.80	916.1	-1,185.3	207.5	152.9	3.798			
4,300.0	3,871.0	4,314.1	3,940.3	32.8	30.8	-137.56	946.4	-1,222.1	213.4	157.1	3.792			
4,400.0	3,957.1	4,414.0	4,028.0	33.7	31.7	-137.32	976.8	-1,259.0	219.3	161.4	3.787			
4,500.0	4,043.1	4,513.8	4,115.6	34.7	32.6	-137.10	1,007.2	-1,295.9	225.2	165.6	3.782			
4,600.0	4,129.2	4,613.6	4,203.3	35.7	33.5	-136.89	1,037.6	-1,332.8	231.0	169.9	3.777			
4,700.0	4,215.2	4,713.4	4,290.9	36.6	34.4	-136.69	1,068.0	-1,369.7	236.9	174.1	3.772			
4,800.0	4,301.3	4,813.3	4,378.5	37.6	35.3	-136.50	1,098.4	-1,406.6	242.8	178.4	3.767			
4,900.0	4,387.3	4,913.1	4,466.2	38.6	36.2	-136.32	1,128.8	-1,443.5	248.7	182.6	3.763			
5,000.0	4,473.3	5,012.9	4,553.8	39.5	37.1	-136.15	1,159.1	-1,480.3	254.6	186.9	3.758			

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



Anticollision Report



Company:	Laramie Energy, LLC	Local Co-ordinate Reference:	Well Laramie 29-01 0993-20-14E - Slot A-7
Project:	Mesa County, CO	TVD Reference:	RKB=30' @ 7493.0usft (TBD)
Reference Site:	Laramie 0993-29-01	MD Reference:	RKB=30' @ 7493.0usft (TBD)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Laramie 29-01 0993-20-14E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
5,100.0	4,559.4	5,112.7	4,641.5	40.5	38.0	-135.98	1,189.5	-1,517.2	260.5	191.1	3.754		
5,200.0	4,645.4	5,212.6	4,729.1	41.5	38.9	-135.83	1,219.9	-1,554.1	266.4	195.4	3.749		
5,300.0	4,731.5	5,312.4	4,816.7	42.5	39.8	-135.68	1,250.3	-1,591.0	272.3	199.6	3.745		
5,400.0	4,817.5	5,412.2	4,904.4	43.4	40.7	-135.53	1,280.7	-1,627.9	278.2	203.9	3.741		
5,500.0	4,903.6	5,509.5	4,989.9	44.4	41.6	-135.44	1,310.2	-1,663.7	284.3	208.3	3.741		
5,600.0	4,990.9	5,600.0	5,070.8	45.3	42.4	-135.58	1,336.0	-1,695.1	290.6	213.2	3.754		
5,700.0	5,080.2	5,693.9	5,156.3	46.1	43.1	-135.71	1,360.6	-1,724.9	296.5	217.6	3.761		
5,800.0	5,171.4	5,785.9	5,241.6	46.9	43.7	-135.82	1,382.6	-1,751.6	301.8	221.7	3.769		
5,900.0	5,264.3	5,877.8	5,328.1	47.6	44.3	-135.93	1,402.3	-1,775.6	306.6	225.5	3.778		
6,000.0	5,358.7	5,969.7	5,415.7	48.1	44.8	-136.03	1,419.8	-1,796.8	310.9	228.8	3.787		
6,100.0	5,454.5	6,061.4	5,504.2	48.7	45.2	-136.11	1,435.1	-1,815.3	314.7	231.8	3.795		
6,200.0	5,551.4	6,153.1	5,593.6	49.1	45.5	-136.19	1,448.1	-1,831.1	317.9	234.3	3.804		
6,300.0	5,649.4	6,244.7	5,683.7	49.4	45.8	-136.26	1,458.8	-1,844.1	320.6	236.5	3.812		
6,400.0	5,748.1	6,336.3	5,774.3	49.7	46.1	-136.32	1,467.1	-1,854.2	322.8	238.3	3.820		
6,500.0	5,847.4	6,427.8	5,865.3	49.9	46.2	-136.38	1,473.2	-1,861.6	324.4	239.7	3.828		
6,600.0	5,947.1	6,519.3	5,956.6	50.0	46.3	-136.42	1,477.0	-1,866.2	325.5	240.7	3.836		
6,700.0	6,047.0	6,610.8	6,048.1	50.1	46.4	-136.46	1,478.4	-1,867.9	326.0	241.2	3.845		
6,800.0	6,147.0	6,709.8	6,147.0	50.1	46.4	178.56	1,478.4	-1,868.0	326.1	241.3	3.845		
6,900.0	6,247.0	6,809.8	6,247.0	50.1	46.4	178.56	1,478.4	-1,868.0	326.1	241.2	3.843		
7,000.0	6,347.0	6,909.8	6,347.0	50.1	46.5	178.56	1,478.4	-1,868.0	326.1	241.2	3.840		
7,100.0	6,447.0	7,009.8	6,447.0	50.2	46.5	178.56	1,478.4	-1,868.0	326.1	241.1	3.838		
7,200.0	6,547.0	7,109.8	6,547.0	50.2	46.5	178.56	1,478.4	-1,868.0	326.1	241.1	3.835		
7,300.0	6,647.0	7,209.8	6,647.0	50.2	46.5	178.56	1,478.4	-1,868.0	326.1	241.0	3.833		
7,400.0	6,747.0	7,309.8	6,747.0	50.2	46.5	178.56	1,478.4	-1,868.0	326.1	240.9	3.830		
7,500.0	6,847.0	7,409.8	6,847.0	50.2	46.6	178.56	1,478.4	-1,868.0	326.1	240.9	3.828		
7,600.0	6,947.0	7,509.8	6,947.0	50.3	46.6	178.56	1,478.4	-1,868.0	326.1	240.8	3.825		
7,700.0	7,047.0	7,609.8	7,047.0	50.3	46.6	178.56	1,478.4	-1,868.0	326.1	240.8	3.822		
7,800.0	7,147.0	7,709.8	7,147.0	50.3	46.6	178.56	1,478.4	-1,868.0	326.1	240.7	3.820		
7,900.0	7,247.0	7,809.8	7,247.0	50.3	46.7	178.56	1,478.4	-1,868.0	326.1	240.7	3.817		
8,000.0	7,347.0	7,909.8	7,347.0	50.4	46.7	178.56	1,478.4	-1,868.0	326.1	240.6	3.815		
8,100.0	7,447.0	8,009.8	7,447.0	50.4	46.7	178.56	1,478.4	-1,868.0	326.1	240.5	3.812		
8,200.0	7,547.0	8,109.8	7,547.0	50.4	46.7	178.56	1,478.4	-1,868.0	326.1	240.5	3.809		
8,300.0	7,647.0	8,209.8	7,647.0	50.4	46.8	178.56	1,478.4	-1,868.0	326.1	240.4	3.807		
8,400.0	7,747.0	8,309.8	7,747.0	50.4	46.8	178.56	1,478.4	-1,868.0	326.1	240.4	3.804		
8,411.7	7,758.7	8,321.5	7,758.7	50.4	46.8	178.56	1,478.4	-1,868.0	326.1	240.4	3.804		
8,500.0	7,847.0	8,396.7	7,834.0	50.5	46.8	178.56	1,478.4	-1,868.0	326.3	241.2	3.835		
8,600.0	7,947.0	8,396.7	7,834.0	50.5	46.8	178.56	1,478.4	-1,868.0	345.1	268.1	4.480		
8,700.0	8,047.0	8,396.7	7,834.0	50.5	46.8	178.56	1,478.4	-1,868.0	389.5	322.7	5.830		
8,800.0	8,147.0	8,396.7	7,834.0	50.5	46.8	178.56	1,478.4	-1,868.0	452.0	394.2	7.813		
8,900.0	8,247.0	8,396.7	7,834.0	50.6	46.8	178.56	1,478.4	-1,868.0	526.2	475.0	10.267		
9,000.0	8,347.0	8,396.7	7,834.0	50.6	46.8	178.56	1,478.4	-1,868.0	607.9	561.1	12.991		
9,100.0	8,447.0	8,396.7	7,834.0	50.6	46.8	178.56	1,478.4	-1,868.0	694.4	650.5	15.813		
9,200.0	8,547.0	8,396.7	7,834.0	50.6	46.8	178.56	1,478.4	-1,868.0	784.1	742.0	18.620		
9,300.0	8,647.0	8,396.7	7,834.0	50.7	46.8	178.56	1,478.4	-1,868.0	876.0	835.0	21.353		
9,310.0	8,657.0	8,396.7	7,834.0	50.7	46.8	178.56	1,478.4	-1,868.0	885.2	844.3	21.620		

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



Anticollision Report



Company:	Laramie Energy, LLC	Local Co-ordinate Reference:	Well Laramie 29-01 0993-20-14E - Slot A-7
Project:	Mesa County, CO	TVD Reference:	RKB=30' @ 7493.0usft (TBD)
Reference Site:	Laramie 0993-29-01	MD Reference:	RKB=30' @ 7493.0usft (TBD)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Laramie 29-01 0993-20-14E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	133.27	-21.9	23.2	31.9				
100.0	100.0	100.0	100.0	0.4	0.4	133.27	-21.9	23.2	31.9	31.1	40.253		
200.0	200.0	200.0	200.0	1.2	1.2	133.27	-21.9	23.2	31.9	29.4	12.905		
300.0	300.0	300.0	300.0	1.7	1.7	133.27	-21.9	23.2	31.9	28.4	9.191	CC	
300.1	300.1	300.1	300.1	1.7	1.7	133.27	-21.9	23.2	31.9	28.4	9.190		
400.0	400.0	400.0	400.0	1.9	2.1	-142.33	-21.9	23.2	32.3	28.3	7.959	ES	
500.0	499.9	499.9	499.9	3.1	2.5	-146.54	-21.9	23.2	35.9	30.5	6.712		
600.0	599.5	601.1	601.0	4.5	3.1	-151.27	-21.9	21.0	41.6	34.4	5.838		
700.0	698.7	702.5	702.3	4.7	4.4	-162.60	-21.9	14.3	47.6	39.1	5.597		
800.0	797.4	804.2	803.3	5.3	5.4	-169.06	-21.9	3.1	54.0	44.2	5.489	SF	
900.0	895.4	906.3	904.3	6.0	5.7	-170.27	-20.7	-12.2	60.8	50.2	5.710		
1,000.0	992.6	1,008.8	1,005.0	6.8	6.3	-169.97	-16.4	-30.8	67.7	55.9	5.732		
1,100.0	1,088.7	1,111.7	1,105.2	7.5	7.0	-168.79	-8.9	-52.7	74.8	61.8	5.729		
1,200.0	1,183.6	1,214.8	1,204.6	8.1	7.7	-167.07	1.9	-77.7	82.1	67.9	5.760		
1,300.0	1,277.1	1,318.2	1,303.1	8.8	8.3	-165.02	15.9	-106.0	89.7	74.3	5.822		
1,400.0	1,369.1	1,421.9	1,400.3	9.4	9.0	-162.75	33.2	-137.4	97.5	81.0	5.906		
1,500.0	1,459.2	1,525.8	1,496.2	10.1	9.6	-160.35	53.7	-172.0	105.5	88.0	6.006		
1,600.0	1,547.5	1,630.0	1,590.4	10.7	10.2	-157.89	77.4	-209.6	114.0	95.4	6.144		
1,700.0	1,633.9	1,729.5	1,679.4	11.0	10.5	-155.54	101.6	-247.1	124.2	105.0	6.470		
1,800.0	1,719.9	1,828.8	1,768.1	11.4	10.8	-153.29	125.8	-284.4	135.3	115.4	6.775		
1,900.0	1,806.0	1,928.0	1,856.8	11.8	11.2	-151.38	150.0	-321.8	146.6	125.7	7.020		
2,000.0	1,892.0	2,027.3	1,945.5	12.2	11.6	-149.74	174.2	-359.2	158.1	136.2	7.215		
2,100.0	1,978.0	2,126.5	2,034.2	12.7	12.0	-148.33	198.4	-396.5	169.6	146.6	7.371		
2,200.0	2,064.1	2,225.8	2,122.9	13.3	12.5	-147.09	222.6	-433.9	181.2	157.0	7.491		
2,300.0	2,150.1	2,325.0	2,211.6	14.1	13.0	-146.01	246.8	-471.3	192.9	167.5	7.584		
2,400.0	2,236.2	2,424.3	2,300.3	14.9	13.5	-145.05	271.0	-508.6	204.7	178.0	7.656		
2,500.0	2,322.2	2,523.5	2,389.0	15.8	14.2	-144.19	295.1	-546.0	216.5	188.5	7.712		
2,600.0	2,408.3	2,622.8	2,477.7	16.7	14.9	-143.43	319.3	-583.4	228.4	198.9	7.754		
2,700.0	2,494.3	2,722.0	2,566.4	17.6	15.6	-142.74	343.5	-620.7	240.3	209.4	7.786		
2,800.0	2,580.4	2,821.3	2,655.1	18.5	16.4	-142.11	367.7	-658.1	252.2	219.9	7.809		
2,900.0	2,666.4	2,920.5	2,743.8	19.4	17.2	-141.54	391.9	-695.5	264.2	230.4	7.826		
3,000.0	2,752.5	3,019.8	2,832.6	20.4	18.0	-141.02	416.1	-732.8	276.2	240.9	7.838		
3,100.0	2,838.5	3,119.0	2,921.3	21.3	18.8	-140.54	440.3	-770.2	288.2	251.4	7.845		
3,200.0	2,924.5	3,218.3	3,010.0	22.3	19.6	-140.10	464.5	-807.6	300.2	261.9	7.850		
3,300.0	3,010.6	3,317.5	3,098.7	23.2	20.5	-139.70	488.7	-844.9	312.2	272.4	7.852		
3,400.0	3,096.6	3,416.8	3,187.4	24.1	21.3	-139.32	512.9	-882.3	324.3	283.0	7.852		
3,500.0	3,182.7	3,516.0	3,276.1	25.1	22.1	-138.98	537.1	-919.7	336.3	293.5	7.850		
3,600.0	3,268.7	3,615.3	3,364.8	26.1	22.9	-138.65	561.3	-957.0	348.4	304.0	7.847		
3,700.0	3,354.8	3,714.5	3,453.5	27.0	23.8	-138.35	585.4	-994.4	360.5	314.5	7.844		
3,800.0	3,440.8	3,813.8	3,542.2	28.0	24.6	-138.07	609.6	-1,031.8	372.6	325.0	7.839		
3,900.0	3,526.9	3,913.0	3,630.9	28.9	25.4	-137.80	633.8	-1,069.1	384.7	335.6	7.834		
4,000.0	3,612.9	4,012.3	3,719.6	29.9	26.3	-137.55	658.0	-1,106.5	396.8	346.1	7.829		
4,100.0	3,698.9	4,111.5	3,808.3	30.9	27.1	-137.32	682.2	-1,143.9	408.9	356.6	7.823		
4,200.0	3,785.0	4,210.8	3,897.1	31.8	27.9	-137.10	706.4	-1,181.2	421.0	367.1	7.817		
4,300.0	3,871.0	4,310.0	3,985.8	32.8	28.8	-136.89	730.6	-1,218.6	433.1	377.7	7.811		
4,400.0	3,957.1	4,409.3	4,074.5	33.7	29.6	-136.69	754.8	-1,256.0	445.3	388.2	7.805		
4,500.0	4,043.1	4,508.5	4,163.2	34.7	30.5	-136.51	779.0	-1,293.3	457.4	398.7	7.799		
4,600.0	4,129.2	4,607.8	4,251.9	35.7	31.3	-136.33	803.2	-1,330.7	469.5	409.3	7.792		
4,700.0	4,215.2	4,707.0	4,340.6	36.6	32.1	-136.16	827.4	-1,368.1	481.7	419.8	7.786		
4,800.0	4,301.3	4,806.3	4,429.3	37.6	33.0	-136.00	851.6	-1,405.4	493.8	430.4	7.780		
4,900.0	4,387.3	4,905.5	4,518.0	38.6	33.8	-135.85	875.8	-1,442.8	506.0	440.9	7.774		
5,000.0	4,473.3	5,004.8	4,606.7	39.5	34.7	-135.71	899.9	-1,480.2	518.1	451.4	7.768		

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



Anticollision Report



Company:	Laramie Energy, LLC	Local Co-ordinate Reference:	Well Laramie 29-01 0993-20-14E - Slot A-7
Project:	Mesa County, CO	TVD Reference:	RKB=30' @ 7493.0usft (TBD)
Reference Site:	Laramie 0993-29-01	MD Reference:	RKB=30' @ 7493.0usft (TBD)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Laramie 29-01 0993-20-14E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
5,100.0	4,559.4	5,104.0	4,695.4	40.5	35.5	-135.57	924.1	-1,517.5	530.3	462.0	7.762		
5,200.0	4,645.4	5,203.3	4,784.1	41.5	36.4	-135.44	948.3	-1,554.9	542.5	472.5	7.756		
5,300.0	4,731.5	5,302.5	4,872.8	42.5	37.2	-135.31	972.5	-1,592.3	554.6	483.1	7.751		
5,400.0	4,817.5	5,401.8	4,961.5	43.4	38.1	-135.19	996.7	-1,629.6	566.8	493.6	7.745		
5,500.0	4,903.6	5,497.1	5,046.8	44.4	38.9	-135.11	1,019.9	-1,665.4	579.1	504.3	7.748		
5,600.0	4,990.9	5,583.8	5,125.5	45.3	39.5	-135.29	1,039.7	-1,696.0	591.2	515.1	7.768		
5,700.0	5,080.2	5,670.5	5,205.4	46.1	40.2	-135.46	1,057.9	-1,724.1	602.4	525.0	7.782		
5,800.0	5,171.4	5,757.0	5,286.5	46.9	40.7	-135.62	1,074.4	-1,749.6	612.6	534.0	7.796		
5,900.0	5,264.3	5,843.5	5,368.5	47.6	41.2	-135.76	1,089.2	-1,772.5	621.8	542.2	7.809		
6,000.0	5,358.7	5,929.8	5,451.4	48.1	41.6	-135.89	1,102.3	-1,792.7	630.1	549.5	7.823		
6,100.0	5,454.5	6,016.1	5,535.1	48.7	42.0	-136.01	1,113.7	-1,810.3	637.3	556.0	7.836		
6,200.0	5,551.4	6,100.0	5,617.2	49.1	42.3	-136.12	1,123.1	-1,824.9	643.5	561.6	7.852		
6,300.0	5,649.4	6,188.5	5,704.4	49.4	42.6	-136.21	1,131.3	-1,837.5	648.7	566.2	7.860		
6,400.0	5,748.1	6,274.7	5,789.8	49.7	42.8	-136.29	1,137.5	-1,847.0	652.8	569.9	7.872		
6,500.0	5,847.4	6,360.8	5,875.5	49.9	42.9	-136.36	1,141.9	-1,853.9	655.9	572.7	7.883		
6,600.0	5,947.1	6,446.8	5,961.4	50.0	43.0	-136.42	1,144.6	-1,858.0	658.0	574.6	7.894		
6,700.0	6,047.0	6,532.9	6,047.5	50.1	43.1	-136.47	1,145.5	-1,859.5	659.0	575.7	7.907		
6,800.0	6,147.0	6,632.5	6,147.0	50.1	43.1	178.55	1,145.5	-1,859.5	659.1	575.7	7.903		
6,900.0	6,247.0	6,732.5	6,247.0	50.1	43.1	178.55	1,145.5	-1,859.5	659.1	575.6	7.898		
7,000.0	6,347.0	6,832.5	6,347.0	50.1	43.1	178.55	1,145.5	-1,859.5	659.1	575.6	7.893		
7,100.0	6,447.0	6,932.5	6,447.0	50.2	43.2	178.55	1,145.5	-1,859.5	659.1	575.5	7.887		
7,200.0	6,547.0	7,032.5	6,547.0	50.2	43.2	178.55	1,145.5	-1,859.5	659.1	575.5	7.882		
7,300.0	6,647.0	7,132.5	6,647.0	50.2	43.2	178.55	1,145.5	-1,859.5	659.1	575.4	7.877		
7,400.0	6,747.0	7,232.5	6,747.0	50.2	43.2	178.55	1,145.5	-1,859.5	659.1	575.3	7.871		
7,500.0	6,847.0	7,332.5	6,847.0	50.2	43.3	178.55	1,145.5	-1,859.5	659.1	575.3	7.866		
7,600.0	6,947.0	7,432.5	6,947.0	50.3	43.3	178.55	1,145.5	-1,859.5	659.1	575.2	7.860		
7,700.0	7,047.0	7,532.5	7,047.0	50.3	43.3	178.55	1,145.5	-1,859.5	659.1	575.2	7.855		
7,800.0	7,147.0	7,632.5	7,147.0	50.3	43.3	178.55	1,145.5	-1,859.5	659.1	575.1	7.849		
7,900.0	7,247.0	7,732.5	7,247.0	50.3	43.4	178.55	1,145.5	-1,859.5	659.1	575.1	7.844		
8,000.0	7,347.0	7,832.5	7,347.0	50.4	43.4	178.55	1,145.5	-1,859.5	659.1	575.0	7.838		
8,100.0	7,447.0	7,932.5	7,447.0	50.4	43.4	178.55	1,145.5	-1,859.5	659.1	574.9	7.833		
8,200.0	7,547.0	8,032.5	7,547.0	50.4	43.5	178.55	1,145.5	-1,859.5	659.1	574.9	7.827		
8,300.0	7,647.0	8,132.5	7,647.0	50.4	43.5	178.55	1,145.5	-1,859.5	659.1	574.8	7.822		
8,400.0	7,747.0	8,232.5	7,747.0	50.4	43.5	178.55	1,145.5	-1,859.5	659.1	574.8	7.816		
8,500.0	7,847.0	8,332.5	7,847.0	50.5	43.5	178.55	1,145.5	-1,859.5	659.1	574.7	7.811		
8,600.0	7,947.0	8,432.5	7,947.0	50.5	43.6	178.55	1,145.5	-1,859.5	659.1	574.6	7.805		
8,700.0	8,047.0	8,532.5	8,047.0	50.5	43.6	178.55	1,145.5	-1,859.5	659.1	574.6	7.799		
8,800.0	8,147.0	8,632.5	8,147.0	50.5	43.6	178.55	1,145.5	-1,859.5	659.1	574.5	7.794		
8,900.0	8,247.0	8,732.5	8,247.0	50.6	43.6	178.55	1,145.5	-1,859.5	659.1	574.5	7.788		
9,000.0	8,347.0	8,832.5	8,347.0	50.6	43.7	178.55	1,145.5	-1,859.5	659.1	574.4	7.783		
9,100.0	8,447.0	8,932.5	8,447.0	50.6	43.7	178.55	1,145.5	-1,859.5	659.1	574.3	7.777		
9,200.0	8,547.0	9,032.5	8,547.0	50.6	43.7	178.55	1,145.5	-1,859.5	659.1	574.3	7.771		
9,214.9	8,561.9	9,047.4	8,561.9	50.6	43.7	178.55	1,145.5	-1,859.5	659.1	574.3	7.770		
9,300.0	8,647.0	9,127.4	8,642.0	50.7	43.8	178.55	1,145.5	-1,859.5	659.1	574.3	7.776		
9,310.0	8,657.0	9,127.4	8,642.0	50.7	43.8	178.55	1,145.5	-1,859.5	659.3	574.7	7.798		

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



Anticollision Report



Company:	Laramie Energy, LLC	Local Co-ordinate Reference:	Well Laramie 29-01 0993-20-14E - Slot A-7
Project:	Mesa County, CO	TVD Reference:	RKB=30' @ 7493.0usft (TBD)
Reference Site:	Laramie 0993-29-01	MD Reference:	RKB=30' @ 7493.0usft (TBD)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Laramie 29-01 0993-20-14E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	133.27	-32.8	34.8	47.8				
100.0	100.0	100.0	100.0	0.4	0.4	133.27	-32.8	34.8	47.8	47.0	60.384		
200.0	200.0	200.0	200.0	1.2	1.2	133.27	-32.8	34.8	47.8	45.4	19.360		
300.0	300.0	300.0	300.0	1.7	1.7	133.27	-32.8	34.8	47.8	44.4	13.787		
400.0	400.0	401.0	401.0	1.9	2.1	-141.01	-32.9	33.6	47.4	43.5	11.968		
489.4	489.3	491.7	491.5	3.0	3.4	-139.48	-33.3	28.8	47.2	41.8	8.645	CC	
500.0	499.9	502.4	502.2	3.1	3.5	-139.26	-33.4	28.0	47.2	41.6	8.381		
600.0	599.5	603.7	603.0	4.5	4.7	-136.80	-34.3	18.0	47.6	40.4	6.601	ES	
700.0	698.7	705.4	703.6	4.7	5.0	-142.51	-35.0	3.6	48.6	41.1	6.521		
800.0	797.4	807.4	804.0	5.3	5.6	-146.55	-33.2	-14.4	50.0	41.6	5.967		
900.0	895.4	909.3	903.6	6.0	6.4	-146.44	-28.6	-35.9	51.9	42.4	5.459		
1,000.0	992.6	1,011.2	1,002.0	6.8	7.1	-143.76	-21.3	-60.8	54.8	44.4	5.256	SF	
1,100.0	1,088.7	1,112.9	1,099.3	7.5	7.8	-139.60	-11.2	-89.2	58.9	47.7	5.267		
1,200.0	1,183.6	1,214.5	1,195.0	8.1	8.5	-134.77	1.5	-120.8	64.4	52.5	5.419		
1,300.0	1,277.1	1,316.0	1,289.0	8.8	9.1	-129.84	16.9	-155.6	71.5	58.8	5.659		
1,400.0	1,369.1	1,415.8	1,380.3	9.4	9.4	-126.00	33.9	-192.1	80.8	67.3	5.990		
1,500.0	1,459.2	1,514.9	1,471.0	10.1	9.7	-124.75	50.9	-228.4	93.7	79.0	6.389		
1,600.0	1,547.5	1,613.6	1,561.2	10.7	10.1	-125.39	67.8	-264.6	109.8	93.8	6.850		
1,700.0	1,633.9	1,711.8	1,651.0	11.0	10.5	-126.89	84.6	-300.5	128.7	111.3	7.417		
1,800.0	1,719.9	1,809.8	1,740.7	11.4	10.9	-127.88	101.4	-336.5	148.1	129.4	7.921		
1,900.0	1,806.0	1,907.9	1,830.4	11.8	11.3	-128.81	118.1	-372.4	167.6	147.5	8.348		
2,000.0	1,892.0	2,005.9	1,920.0	12.2	11.7	-129.47	134.9	-408.3	187.1	165.6	8.717		
2,100.0	1,978.0	2,104.0	2,009.7	12.7	12.1	-130.01	151.7	-444.3	206.6	183.8	9.036		
2,200.0	2,064.1	2,202.0	2,099.4	13.3	12.6	-130.45	168.5	-480.2	226.2	201.9	9.314		
2,300.0	2,150.1	2,300.1	2,189.1	14.1	13.1	-130.83	185.2	-516.1	245.7	220.0	9.558		
2,400.0	2,236.2	2,398.2	2,278.8	14.9	13.7	-131.15	202.0	-552.1	265.3	238.1	9.773		
2,500.0	2,322.2	2,496.2	2,368.4	15.8	14.3	-131.42	218.8	-588.0	284.8	256.3	9.964		
2,600.0	2,408.3	2,594.3	2,458.1	16.7	15.0	-131.66	235.6	-623.9	304.4	274.4	10.134		
2,700.0	2,494.3	2,692.3	2,547.8	17.6	15.6	-131.87	252.4	-659.9	324.0	292.5	10.286		
2,800.0	2,580.4	2,790.4	2,637.5	18.5	16.3	-132.06	269.1	-695.8	343.6	310.6	10.423		
2,900.0	2,666.4	2,888.5	2,727.2	19.4	17.0	-132.22	285.9	-731.8	363.1	328.7	10.547		
3,000.0	2,752.5	2,986.5	2,816.8	20.4	17.8	-132.37	302.7	-767.7	382.7	346.8	10.659		
3,100.0	2,838.5	3,084.6	2,906.5	21.3	18.5	-132.51	319.5	-803.6	402.3	364.9	10.761		
3,200.0	2,924.5	3,182.6	2,996.2	22.3	19.2	-132.63	336.3	-839.6	421.9	383.0	10.855		
3,300.0	3,010.6	3,280.7	3,085.9	23.2	19.9	-132.74	353.0	-875.5	441.5	401.1	10.941		
3,400.0	3,096.6	3,378.8	3,175.6	24.1	20.7	-132.84	369.8	-911.4	461.1	419.2	11.019		
3,500.0	3,182.7	3,476.8	3,265.2	25.1	21.4	-132.94	386.6	-947.4	480.7	437.3	11.092		
3,600.0	3,268.7	3,574.9	3,354.9	26.1	22.1	-133.02	403.4	-983.3	500.3	455.4	11.160		
3,700.0	3,354.8	3,672.9	3,444.6	27.0	22.9	-133.10	420.2	-1,019.2	519.9	473.5	11.222		
3,800.0	3,440.8	3,771.0	3,534.3	28.0	23.6	-133.18	436.9	-1,055.2	539.5	491.6	11.280		
3,900.0	3,526.9	3,869.1	3,624.0	28.9	24.4	-133.25	453.7	-1,091.1	559.0	509.7	11.334		
4,000.0	3,612.9	3,967.1	3,713.7	29.9	25.1	-133.31	470.5	-1,127.0	578.6	527.8	11.384		
4,100.0	3,698.9	4,065.2	3,803.3	30.9	25.8	-133.37	487.3	-1,163.0	598.2	545.9	11.432		
4,200.0	3,785.0	4,163.2	3,893.0	31.8	26.6	-133.43	504.1	-1,198.9	617.8	564.0	11.476		
4,300.0	3,871.0	4,261.3	3,982.7	32.8	27.3	-133.48	520.8	-1,234.8	637.4	582.1	11.517		
4,400.0	3,957.1	4,359.3	4,072.4	33.7	28.1	-133.53	537.6	-1,270.8	657.0	600.2	11.557		
4,500.0	4,043.1	4,457.4	4,162.1	34.7	28.8	-133.58	554.4	-1,306.7	676.6	618.3	11.593		
4,600.0	4,129.2	4,555.5	4,251.7	35.7	29.6	-133.62	571.2	-1,342.7	696.2	636.4	11.628		
4,700.0	4,215.2	4,653.5	4,341.4	36.6	30.3	-133.66	588.0	-1,378.6	715.8	654.5	11.661		
4,800.0	4,301.3	4,751.6	4,431.1	37.6	31.1	-133.70	604.7	-1,414.5	735.4	672.5	11.692		
4,900.0	4,387.3	4,849.6	4,520.8	38.6	31.8	-133.74	621.5	-1,450.5	755.0	690.6	11.722		
5,000.0	4,473.3	4,947.7	4,610.5	39.5	32.5	-133.77	638.3	-1,486.4	774.6	708.7	11.750		

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



Anticollision Report



Company:	Laramie Energy, LLC	Local Co-ordinate Reference:	Well Laramie 29-01 0993-20-14E - Slot A-7
Project:	Mesa County, CO	TVD Reference:	RKB=30' @ 7493.0usft (TBD)
Reference Site:	Laramie 0993-29-01	MD Reference:	RKB=30' @ 7493.0usft (TBD)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Laramie 29-01 0993-20-14E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design											Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard											Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning
5,100.0	4,559.4	5,045.8	4,700.1	40.5	33.3	-133.81	655.1	-1,522.3	794.2	726.8	11.776	
5,200.0	4,645.4	5,143.8	4,789.8	41.5	34.0	-133.84	671.8	-1,558.3	813.8	744.9	11.802	
5,300.0	4,731.5	5,241.9	4,879.5	42.5	34.8	-133.87	688.6	-1,594.2	833.4	763.0	11.826	
5,400.0	4,817.5	5,339.9	4,969.2	43.4	35.5	-133.90	705.4	-1,630.1	853.0	781.1	11.849	
5,500.0	4,903.6	5,438.0	5,058.9	44.4	36.3	-133.95	722.2	-1,666.1	872.6	799.1	11.871	
5,600.0	4,990.9	5,531.0	5,144.0	45.3	37.0	-134.21	738.0	-1,700.0	890.6	815.7	11.882	
5,700.0	5,080.2	5,615.2	5,222.0	46.1	37.6	-134.42	751.4	-1,728.6	906.9	830.7	11.895	
5,800.0	5,171.4	5,700.0	5,301.8	46.9	38.1	-134.60	763.6	-1,754.7	921.8	844.4	11.906	
5,900.0	5,264.3	5,783.6	5,381.4	47.6	38.6	-134.78	774.4	-1,777.9	935.2	856.8	11.920	
6,000.0	5,358.7	5,867.9	5,462.5	48.1	39.0	-134.93	784.0	-1,798.5	947.2	867.8	11.933	
6,100.0	5,454.5	5,952.2	5,544.4	48.7	39.3	-135.07	792.4	-1,816.5	957.6	877.5	11.945	
6,200.0	5,551.4	6,036.5	5,627.0	49.1	39.6	-135.20	799.5	-1,831.7	966.6	885.8	11.955	
6,300.0	5,649.4	6,120.8	5,710.2	49.4	39.9	-135.31	805.3	-1,844.1	974.1	892.7	11.964	
6,400.0	5,748.1	6,200.0	5,788.8	49.7	40.1	-135.41	809.6	-1,853.3	980.1	898.3	11.982	
6,500.0	5,847.4	6,289.4	5,877.8	49.9	40.2	-135.49	813.1	-1,860.7	984.5	902.3	11.979	
6,600.0	5,947.1	6,373.7	5,962.0	50.0	40.3	-135.55	815.0	-1,864.8	987.5	905.1	11.985	
6,700.0	6,047.0	6,458.8	6,047.0	50.1	40.3	-135.61	815.5	-1,866.0	988.9	906.4	11.993	
6,800.0	6,147.0	6,558.8	6,147.0	50.1	40.4	179.41	815.5	-1,866.0	988.9	906.4	11.986	
6,900.0	6,247.0	6,658.8	6,247.0	50.1	40.4	179.41	815.5	-1,866.0	988.9	906.3	11.978	
7,000.0	6,347.0	6,758.8	6,347.0	50.1	40.4	179.41	815.5	-1,866.0	988.9	906.3	11.970	
7,100.0	6,447.0	6,858.8	6,447.0	50.2	40.4	179.41	815.5	-1,866.0	988.9	906.2	11.961	
7,200.0	6,547.0	6,958.8	6,547.0	50.2	40.5	179.41	815.5	-1,866.0	988.9	906.2	11.953	
7,300.0	6,647.0	7,058.8	6,647.0	50.2	40.5	179.41	815.5	-1,866.0	988.9	906.1	11.945	
7,400.0	6,747.0	7,158.8	6,747.0	50.2	40.5	179.41	815.5	-1,866.0	988.9	906.1	11.937	
7,500.0	6,847.0	7,258.8	6,847.0	50.2	40.6	179.41	815.5	-1,866.0	988.9	906.0	11.928	
7,600.0	6,947.0	7,358.8	6,947.0	50.3	40.6	179.41	815.5	-1,866.0	988.9	905.9	11.920	
7,700.0	7,047.0	7,458.8	7,047.0	50.3	40.6	179.41	815.5	-1,866.0	988.9	905.9	11.912	
7,800.0	7,147.0	7,558.8	7,147.0	50.3	40.6	179.41	815.5	-1,866.0	988.9	905.8	11.903	
7,900.0	7,247.0	7,658.8	7,247.0	50.3	40.7	179.41	815.5	-1,866.0	988.9	905.8	11.895	
8,000.0	7,347.0	7,758.8	7,347.0	50.4	40.7	179.41	815.5	-1,866.0	988.9	905.7	11.886	
8,100.0	7,447.0	7,858.8	7,447.0	50.4	40.7	179.41	815.5	-1,866.0	988.9	905.6	11.878	
8,200.0	7,547.0	7,958.8	7,547.0	50.4	40.8	179.41	815.5	-1,866.0	988.9	905.6	11.869	
8,300.0	7,647.0	8,058.8	7,647.0	50.4	40.8	179.41	815.5	-1,866.0	988.9	905.5	11.861	
8,400.0	7,747.0	8,158.8	7,747.0	50.4	40.8	179.41	815.5	-1,866.0	988.9	905.5	11.852	
8,402.3	7,749.4	8,161.1	7,749.4	50.4	40.8	179.41	815.5	-1,866.0	988.9	905.5	11.852	
8,500.0	7,847.0	8,228.7	7,817.0	50.5	40.8	179.41	815.5	-1,866.0	989.4	906.3	11.909	
8,600.0	7,947.0	8,228.7	7,817.0	50.5	40.8	179.41	815.5	-1,866.0	997.4	916.1	12.263	
8,700.0	8,047.0	8,228.7	7,817.0	50.5	40.8	179.41	815.5	-1,866.0	1,015.3	936.3	12.846	
8,800.0	8,147.0	8,228.7	7,817.0	50.5	40.8	179.41	815.5	-1,866.0	1,042.5	966.2	13.659	
8,900.0	8,247.0	8,228.7	7,817.0	50.6	40.8	179.41	815.5	-1,866.0	1,078.4	1,005.0	14.701	
9,000.0	8,347.0	8,228.7	7,817.0	50.6	40.8	179.41	815.5	-1,866.0	1,122.0	1,051.7	15.965	
9,100.0	8,447.0	8,228.7	7,817.0	50.6	40.8	179.41	815.5	-1,866.0	1,172.6	1,105.3	17.441	
9,200.0	8,547.0	8,228.7	7,817.0	50.6	40.8	179.41	815.5	-1,866.0	1,229.2	1,164.9	19.114	
9,300.0	8,647.0	8,228.7	7,817.0	50.7	40.8	179.41	815.5	-1,866.0	1,291.1	1,229.5	20.965	
9,310.0	8,657.0	8,228.7	7,817.0	50.7	40.8	179.41	815.5	-1,866.0	1,297.5	1,236.2	21.159	

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



Anticollision Report



Company:	Laramie Energy, LLC	Local Co-ordinate Reference:	Well Laramie 29-01 0993-20-14E - Slot A-7
Project:	Mesa County, CO	TVD Reference:	RKB=30' @ 7493.0usft (TBD)
Reference Site:	Laramie 0993-29-01	MD Reference:	RKB=30' @ 7493.0usft (TBD)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Laramie 29-01 0993-20-14E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	133.26	-43.7	46.4	63.8				
100.0	100.0	100.0	100.0	0.4	0.4	133.26	-43.7	46.4	63.8	63.0	80.516		
200.0	200.0	200.0	200.0	1.2	1.2	133.26	-43.7	46.4	63.8	61.3	25.814		
300.0	300.0	300.8	300.8	1.7	1.5	133.68	-43.8	45.9	63.5	60.2	19.660		
400.0	400.0	402.2	402.1	1.9	2.9	-138.20	-44.8	41.5	61.5	57.3	14.858		
500.0	499.9	503.4	502.9	3.1	4.3	-133.74	-46.6	32.8	60.3	54.8	10.974		
530.3	530.2	534.1	533.3	3.5	4.6	-132.21	-47.4	29.2	60.3	54.4	10.311	CC	
600.0	599.5	604.3	602.9	4.5	5.4	-128.45	-49.4	19.7	60.6	54.1	9.297	ES	
700.0	698.7	706.5	703.6	4.7	5.7	-132.02	-51.6	2.4	61.9	55.1	9.166		
800.0	797.4	808.6	803.5	5.3	6.3	-134.34	-51.3	-18.6	64.2	56.3	8.193		
900.0	895.4	910.5	902.3	6.0	7.0	-132.92	-48.5	-43.3	67.9	59.0	7.598		
1,000.0	992.6	1,012.1	999.8	6.8	7.7	-129.53	-43.3	-71.5	73.6	63.6	7.406	SF	
1,100.0	1,088.7	1,113.4	1,095.7	7.5	8.3	-125.33	-35.6	-103.2	81.3	70.5	7.507		
1,200.0	1,183.6	1,214.4	1,189.9	8.1	8.9	-121.05	-25.5	-138.2	91.2	79.4	7.768		
1,300.0	1,277.1	1,313.3	1,281.3	8.8	9.2	-118.24	-14.5	-174.2	104.0	91.2	8.158		
1,400.0	1,369.1	1,412.0	1,372.5	9.4	9.6	-117.58	-3.4	-210.1	120.0	106.2	8.651		
1,500.0	1,459.2	1,510.1	1,463.3	10.1	9.9	-118.43	7.5	-245.8	138.9	123.8	9.203		
1,600.0	1,547.5	1,607.7	1,553.6	10.7	10.3	-120.21	18.4	-281.3	160.6	144.2	9.786		
1,700.0	1,633.9	1,704.5	1,643.1	11.0	10.7	-122.30	29.2	-316.5	184.9	167.2	10.457		
1,800.0	1,719.9	1,801.2	1,732.5	11.4	11.1	-123.90	40.0	-351.7	209.8	190.8	11.048		
1,900.0	1,806.0	1,897.9	1,822.0	11.8	11.5	-125.16	50.8	-386.9	234.9	214.6	11.552		
2,000.0	1,892.0	1,994.6	1,911.4	12.2	11.9	-126.17	61.6	-422.0	260.0	238.3	11.990		
2,100.0	1,978.0	2,091.3	2,000.8	12.7	12.3	-127.01	72.4	-457.2	285.2	262.2	12.372		
2,200.0	2,064.1	2,188.0	2,090.2	13.3	12.8	-127.71	83.2	-492.4	310.4	286.0	12.707		
2,300.0	2,150.1	2,284.7	2,179.7	14.1	13.3	-128.30	94.0	-527.6	335.7	309.9	13.004		
2,400.0	2,236.2	2,381.4	2,269.1	14.9	13.8	-128.81	104.8	-562.7	361.0	333.8	13.267		
2,500.0	2,322.2	2,478.1	2,358.5	15.8	14.4	-129.26	115.6	-597.9	386.4	357.7	13.502		
2,600.0	2,408.3	2,574.8	2,447.9	16.7	15.0	-129.65	126.4	-633.1	411.7	381.7	13.713		
2,700.0	2,494.3	2,671.5	2,537.4	17.6	15.6	-129.99	137.2	-668.3	437.1	405.6	13.903		
2,800.0	2,580.4	2,768.2	2,626.8	18.5	16.2	-130.30	148.0	-703.5	462.4	429.6	14.075		
2,900.0	2,666.4	2,864.9	2,716.2	19.4	16.8	-130.57	158.8	-738.6	487.8	453.5	14.230		
3,000.0	2,752.5	2,961.6	2,805.6	20.4	17.5	-130.82	169.7	-773.8	513.2	477.5	14.373		
3,100.0	2,838.5	3,058.3	2,895.0	21.3	18.1	-131.05	180.5	-809.0	538.6	501.5	14.503		
3,200.0	2,924.5	3,155.0	2,984.5	22.3	18.8	-131.25	191.3	-844.2	564.0	525.5	14.622		
3,300.0	3,010.6	3,251.7	3,073.9	23.2	19.5	-131.44	202.1	-879.3	589.5	549.4	14.732		
3,400.0	3,096.6	3,348.4	3,163.3	24.1	20.1	-131.61	212.9	-914.5	614.9	573.4	14.833		
3,500.0	3,182.7	3,445.1	3,252.7	25.1	20.8	-131.77	223.7	-949.7	640.3	597.4	14.927		
3,600.0	3,268.7	3,541.8	3,342.2	26.1	21.5	-131.91	234.5	-984.9	665.7	621.4	15.014		
3,700.0	3,354.8	3,638.5	3,431.6	27.0	22.2	-132.05	245.3	-1,020.0	691.2	645.4	15.095		
3,800.0	3,440.8	3,735.2	3,521.0	28.0	22.8	-132.17	256.1	-1,055.2	716.6	669.4	15.170		
3,900.0	3,526.9	3,831.9	3,610.4	28.9	23.5	-132.29	266.9	-1,090.4	742.1	693.4	15.241		
4,000.0	3,612.9	3,928.6	3,699.9	29.9	24.2	-132.40	277.7	-1,125.6	767.5	717.4	15.307		
4,100.0	3,698.9	4,025.3	3,789.3	30.9	24.9	-132.50	288.5	-1,160.7	793.0	741.4	15.369		
4,200.0	3,785.0	4,122.0	3,878.7	31.8	25.6	-132.60	299.3	-1,195.9	818.4	765.4	15.427		
4,300.0	3,871.0	4,218.7	3,968.1	32.8	26.3	-132.69	310.1	-1,231.1	843.9	789.4	15.482		
4,400.0	3,957.1	4,315.4	4,057.6	33.7	26.9	-132.77	320.9	-1,266.3	869.3	813.3	15.533		
4,500.0	4,043.1	4,412.1	4,147.0	34.7	27.6	-132.85	331.7	-1,301.4	894.8	837.3	15.582		
4,600.0	4,129.2	4,508.8	4,236.4	35.7	28.3	-132.93	342.5	-1,336.6	920.2	861.3	15.628		
4,700.0	4,215.2	4,605.5	4,325.8	36.6	29.0	-133.00	353.3	-1,371.8	945.7	885.3	15.671		
4,800.0	4,301.3	4,702.2	4,415.3	37.6	29.7	-133.06	364.1	-1,407.0	971.1	909.3	15.713		
4,900.0	4,387.3	4,798.9	4,504.7	38.6	30.4	-133.13	374.9	-1,442.1	996.6	933.3	15.752		
5,000.0	4,473.3	4,895.6	4,594.1	39.5	31.1	-133.19	385.7	-1,477.3	1,022.1	957.3	15.789		

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



Anticollision Report



Company:	Laramie Energy, LLC	Local Co-ordinate Reference:	Well Laramie 29-01 0993-20-14E - Slot A-7
Project:	Mesa County, CO	TVD Reference:	RKB=30' @ 7493.0usft (TBD)
Reference Site:	Laramie 0993-29-01	MD Reference:	RKB=30' @ 7493.0usft (TBD)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Laramie 29-01 0993-20-14E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
5,100.0	4,559.4	4,992.3	4,683.5	40.5	31.8	-133.25	396.5	-1,512.5	1,047.5	981.3	15.824		
5,200.0	4,645.4	5,089.0	4,772.9	41.5	32.4	-133.30	407.3	-1,547.7	1,073.0	1,005.3	15.858		
5,300.0	4,731.5	5,185.7	4,862.4	42.5	33.1	-133.36	418.1	-1,582.8	1,098.5	1,029.3	15.890		
5,400.0	4,817.5	5,282.4	4,951.8	43.4	33.8	-133.41	428.9	-1,618.0	1,123.9	1,053.3	15.921		
5,500.0	4,903.6	5,379.1	5,041.2	44.4	34.5	-133.49	439.7	-1,653.2	1,149.4	1,077.3	15.951		
5,600.0	4,990.9	5,476.2	5,131.0	45.3	35.2	-133.89	450.5	-1,688.5	1,173.2	1,099.6	15.954		
5,700.0	5,080.2	5,564.9	5,213.3	46.1	35.8	-134.13	460.3	-1,720.2	1,194.3	1,119.4	15.949		
5,800.0	5,171.4	5,649.3	5,292.6	46.9	36.4	-134.35	468.7	-1,747.7	1,213.5	1,137.4	15.953		
5,900.0	5,264.3	5,733.9	5,373.1	47.6	36.8	-134.55	476.3	-1,772.4	1,230.8	1,153.6	15.956		
6,000.0	5,358.7	5,818.6	5,454.7	48.1	37.2	-134.73	483.0	-1,794.3	1,246.2	1,168.1	15.958		
6,100.0	5,454.5	5,900.0	5,533.8	48.7	37.6	-134.89	488.7	-1,812.7	1,259.7	1,180.8	15.968		
6,200.0	5,551.4	5,988.7	5,620.7	49.1	37.9	-135.03	493.8	-1,829.6	1,271.2	1,191.6	15.962		
6,300.0	5,649.4	6,073.9	5,704.8	49.4	38.1	-135.16	497.9	-1,842.8	1,280.8	1,200.6	15.964		
6,400.0	5,748.1	6,159.2	5,789.4	49.7	38.3	-135.27	501.0	-1,853.0	1,288.5	1,207.8	15.963		
6,500.0	5,847.4	6,244.6	5,874.5	49.9	38.5	-135.36	503.2	-1,860.2	1,294.1	1,213.1	15.961		
6,600.0	5,947.1	6,330.0	5,959.7	50.0	38.6	-135.43	504.5	-1,864.3	1,297.8	1,216.5	15.955		
6,700.0	6,047.0	6,417.3	6,047.0	50.1	38.6	-135.49	504.9	-1,865.5	1,299.5	1,218.0	15.942		
6,800.0	6,147.0	6,517.3	6,147.0	50.1	38.7	179.53	504.9	-1,865.5	1,299.6	1,218.0	15.926		
6,900.0	6,247.0	6,617.3	6,247.0	50.1	38.7	179.53	504.9	-1,865.5	1,299.6	1,217.9	15.915		
7,000.0	6,347.0	6,717.3	6,347.0	50.1	38.8	179.53	504.9	-1,865.5	1,299.6	1,217.9	15.904		
7,100.0	6,447.0	6,817.3	6,447.0	50.2	38.8	179.53	504.9	-1,865.5	1,299.6	1,217.8	15.893		
7,200.0	6,547.0	6,917.3	6,547.0	50.2	38.8	179.53	504.9	-1,865.5	1,299.6	1,217.7	15.883		
7,300.0	6,647.0	7,017.3	6,647.0	50.2	38.8	179.53	504.9	-1,865.5	1,299.6	1,217.7	15.871		
7,400.0	6,747.0	7,117.3	6,747.0	50.2	38.9	179.53	504.9	-1,865.5	1,299.6	1,217.6	15.860		
7,500.0	6,847.0	7,217.3	6,847.0	50.2	38.9	179.53	504.9	-1,865.5	1,299.6	1,217.6	15.849		
7,600.0	6,947.0	7,317.3	6,947.0	50.3	38.9	179.53	504.9	-1,865.5	1,299.6	1,217.5	15.838		
7,700.0	7,047.0	7,417.3	7,047.0	50.3	39.0	179.53	504.9	-1,865.5	1,299.6	1,217.5	15.827		
7,800.0	7,147.0	7,517.3	7,147.0	50.3	39.0	179.53	504.9	-1,865.5	1,299.6	1,217.4	15.816		
7,900.0	7,247.0	7,617.3	7,247.0	50.3	39.0	179.53	504.9	-1,865.5	1,299.6	1,217.3	15.805		
8,000.0	7,347.0	7,717.3	7,347.0	50.4	39.0	179.53	504.9	-1,865.5	1,299.6	1,217.3	15.793		
8,100.0	7,447.0	7,817.3	7,447.0	50.4	39.1	179.53	504.9	-1,865.5	1,299.6	1,217.2	15.782		
8,200.0	7,547.0	7,917.3	7,547.0	50.4	39.1	179.53	504.9	-1,865.5	1,299.6	1,217.2	15.771		
8,300.0	7,647.0	8,017.3	7,647.0	50.4	39.1	179.53	504.9	-1,865.5	1,299.6	1,217.1	15.759		
8,400.0	7,747.0	8,117.3	7,747.0	50.4	39.2	179.53	504.9	-1,865.5	1,299.6	1,217.0	15.748		
8,500.0	7,847.0	8,217.3	7,847.0	50.5	39.2	179.53	504.9	-1,865.5	1,299.6	1,217.0	15.736		
8,600.0	7,947.0	8,317.3	7,947.0	50.5	39.2	179.53	504.9	-1,865.5	1,299.6	1,216.9	15.725		
8,700.0	8,047.0	8,417.3	8,047.0	50.5	39.3	179.53	504.9	-1,865.5	1,299.6	1,216.9	15.713		
8,800.0	8,147.0	8,517.3	8,147.0	50.5	39.3	179.53	504.9	-1,865.5	1,299.6	1,216.8	15.702		
8,900.0	8,247.0	8,617.3	8,247.0	50.6	39.3	179.53	504.9	-1,865.5	1,299.6	1,216.7	15.690		
9,000.0	8,347.0	8,717.3	8,347.0	50.6	39.4	179.53	504.9	-1,865.5	1,299.6	1,216.7	15.678		
9,100.0	8,447.0	8,817.3	8,447.0	50.6	39.4	179.53	504.9	-1,865.5	1,299.6	1,216.6	15.667		
9,200.0	8,547.0	8,917.3	8,547.0	50.6	39.4	179.53	504.9	-1,865.5	1,299.6	1,216.6	15.655		
9,207.8	8,554.8	8,925.1	8,554.8	50.6	39.4	179.53	504.9	-1,865.5	1,299.6	1,216.6	15.654		
9,300.0	8,647.0	8,996.2	8,626.0	50.7	39.4	179.53	504.9	-1,865.5	1,299.7	1,216.9	15.682		
9,310.0	8,657.0	8,996.2	8,626.0	50.7	39.4	179.53	504.9	-1,865.5	1,299.9	1,217.2	15.702		

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



Anticollision Report



Company:	Laramie Energy, LLC	Local Co-ordinate Reference:	Well Laramie 29-01 0993-20-14E - Slot A-7
Project:	Mesa County, CO	TVD Reference:	RKB=30' @ 7493.0usft (TBD)
Reference Site:	Laramie 0993-29-01	MD Reference:	RKB=30' @ 7493.0usft (TBD)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Laramie 29-01 0993-20-14E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	-46.50	27.7	-29.2	40.2				
100.0	100.0	100.0	100.0	0.4	0.4	-46.50	27.7	-29.2	40.2	39.4	50.760		
200.0	200.0	200.0	200.0	1.2	1.2	-46.50	27.7	-29.2	40.2	37.7	16.274	CC	
300.0	300.0	299.7	299.6	1.7	1.7	-44.83	28.7	-28.6	40.5	37.2	12.399	ES	
400.0	400.0	398.9	398.7	1.9	3.3	47.74	33.4	-25.9	41.9	37.8	10.171		
500.0	499.9	497.2	496.6	3.1	4.5	63.26	41.7	-21.2	44.5	38.7	7.665		
600.0	599.5	593.8	592.2	4.5	5.5	83.12	53.4	-14.5	52.7	45.2	6.999	SF	
700.0	698.7	688.2	685.1	4.7	6.4	91.14	68.2	-6.1	69.5	60.4	7.617		
800.0	797.4	780.6	775.2	5.3	7.1	94.31	85.9	4.0	92.5	81.6	8.503		
900.0	895.4	870.9	862.3	6.0	7.8	96.84	106.3	15.5	120.7	108.5	9.886		
1,000.0	992.6	958.8	946.3	6.8	8.4	98.73	128.9	28.4	153.5	140.2	11.614		
1,100.0	1,088.7	1,044.3	1,027.0	7.5	9.0	100.09	153.6	42.5	190.4	176.4	13.573		
1,200.0	1,183.6	1,127.3	1,104.2	8.1	9.6	101.03	180.1	57.5	231.2	216.4	15.652		
1,300.0	1,277.1	1,207.7	1,177.9	8.8	10.1	101.65	208.1	73.4	275.5	260.0	17.771		
1,400.0	1,369.1	1,285.5	1,248.1	9.4	10.6	101.99	237.2	90.0	323.2	307.0	19.891		
1,500.0	1,459.2	1,360.7	1,314.8	10.1	11.0	102.09	267.3	107.1	374.0	357.0	21.979		
1,600.0	1,547.5	1,433.2	1,378.1	10.7	11.4	102.00	298.2	124.6	427.8	409.9	24.011		
1,700.0	1,633.9	1,500.0	1,435.2	11.0	11.8	102.70	328.1	141.6	484.2	465.7	26.126		
1,800.0	1,719.9	1,572.8	1,496.5	11.4	12.1	104.45	362.4	161.1	543.0	523.7	28.059		
1,900.0	1,806.0	1,652.1	1,562.6	11.8	12.3	105.92	400.4	182.7	602.8	582.5	29.679		
2,000.0	1,892.0	1,731.3	1,628.7	12.2	12.6	107.14	438.3	204.3	662.9	641.5	31.081		
2,100.0	1,978.0	1,810.5	1,694.8	12.7	12.9	108.15	476.3	225.9	723.1	700.7	32.295		
2,200.0	2,064.1	1,889.8	1,760.9	13.3	13.2	109.02	514.3	247.5	783.4	759.9	33.352		
2,300.0	2,150.1	1,969.0	1,827.0	14.1	13.4	109.76	552.3	269.1	843.8	819.2	34.274		
2,400.0	2,236.2	2,048.3	1,893.1	14.9	13.7	110.40	590.3	290.7	904.3	878.5	35.083		
2,500.0	2,322.2	2,127.5	1,959.2	15.8	14.0	110.96	628.3	312.3	964.8	937.9	35.793		
2,600.0	2,408.3	2,206.8	2,025.3	16.7	14.3	111.46	666.3	333.9	1,025.4	997.3	36.418		
2,700.0	2,494.3	2,286.0	2,091.5	17.6	14.6	111.90	704.2	355.5	1,086.1	1,056.7	36.972		
2,800.0	2,580.4	2,365.3	2,157.6	18.5	15.1	112.29	742.2	377.1	1,146.8	1,116.1	37.447		
2,900.0	2,666.4	2,444.5	2,223.7	19.4	15.8	112.65	780.2	398.7	1,207.5	1,175.6	37.893		
3,000.0	2,752.5	2,523.8	2,289.8	20.4	16.6	112.97	818.2	420.3	1,268.2	1,235.1	38.286		
3,100.0	2,838.5	2,603.0	2,355.9	21.3	17.3	113.26	856.2	441.9	1,329.0	1,294.6	38.638		
3,200.0	2,924.5	2,682.2	2,422.0	22.3	18.1	113.53	894.2	463.5	1,389.8	1,354.1	38.953		
3,300.0	3,010.6	2,761.5	2,488.1	23.2	18.8	113.77	932.1	485.1	1,450.6	1,413.6	39.238		
3,400.0	3,096.6	2,840.7	2,554.2	24.1	19.6	114.00	970.1	506.7	1,511.4	1,473.1	39.496		
3,500.0	3,182.7	2,920.0	2,620.3	25.1	20.3	114.21	1,008.1	528.3	1,572.2	1,532.6	39.731		
3,600.0	3,268.7	2,999.2	2,686.5	26.1	21.0	114.40	1,046.1	549.9	1,633.1	1,592.2	39.945		
3,700.0	3,354.8	3,078.5	2,752.6	27.0	21.8	114.58	1,084.1	571.5	1,693.9	1,651.7	40.140		
3,800.0	3,440.8	3,157.7	2,818.7	28.0	22.5	114.74	1,122.1	593.0	1,754.8	1,711.2	40.318		
3,900.0	3,526.9	3,237.0	2,884.8	28.9	23.3	114.90	1,160.1	614.6	1,815.6	1,770.8	40.483		
4,000.0	3,612.9	3,316.2	2,950.9	29.9	24.0	115.04	1,198.0	636.2	1,876.5	1,830.3	40.634		
4,100.0	3,698.9	3,395.5	3,017.0	30.9	24.8	115.18	1,236.0	657.8	1,937.4	1,889.9	40.773		
4,200.0	3,785.0	3,474.7	3,083.1	31.8	25.5	115.30	1,274.0	679.4	1,998.3	1,949.4	40.902		
4,300.0	3,871.0	3,554.0	3,149.2	32.8	26.3	115.42	1,312.0	701.0	2,059.2	2,009.0	41.021		
4,400.0	3,957.1	3,633.2	3,215.3	33.7	27.0	115.54	1,350.0	722.6	2,120.1	2,068.6	41.131		
4,500.0	4,043.1	3,712.4	3,281.5	34.7	27.8	115.64	1,388.0	744.2	2,181.0	2,128.1	41.234		
4,600.0	4,129.2	3,791.7	3,347.6	35.7	28.6	115.75	1,425.9	765.8	2,241.9	2,187.7	41.330		
4,700.0	4,215.2	3,870.9	3,413.7	36.6	29.3	115.84	1,463.9	787.4	2,302.8	2,247.3	41.419		
4,800.0	4,301.3	3,950.2	3,479.8	37.6	30.1	115.93	1,501.9	809.0	2,363.8	2,306.8	41.502		
4,900.0	4,387.3	4,029.4	3,545.9	38.6	30.8	116.02	1,539.9	830.6	2,424.7	2,366.4	41.580		
5,000.0	4,473.3	4,108.7	3,612.0	39.5	31.6	116.10	1,577.9	852.2	2,485.6	2,426.0	41.654		
5,100.0	4,559.4	4,187.9	3,678.1	40.5	32.3	116.18	1,615.9	873.8	2,546.6	2,485.5	41.722		

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



Anticollision Report



Company:	Laramie Energy, LLC	Local Co-ordinate Reference:	Well Laramie 29-01 0993-20-14E - Slot A-7
Project:	Mesa County, CO	TVD Reference:	RKB=30' @ 7493.0usft (TBD)
Reference Site:	Laramie 0993-29-01	MD Reference:	RKB=30' @ 7493.0usft (TBD)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Laramie 29-01 0993-20-14E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
5,200.0	4,645.4	4,267.2	3,744.2	41.5	33.1	116.25	1,653.9	895.4	2,607.5	2,545.1	41.786		
5,300.0	4,731.5	4,346.4	3,810.3	42.5	33.8	116.32	1,691.8	917.0	2,668.4	2,604.7	41.847		
5,400.0	4,817.5	4,425.7	3,876.5	43.4	34.6	116.39	1,729.8	938.6	2,729.4	2,664.2	41.904		
5,500.0	4,903.6	4,504.9	3,942.6	44.4	35.3	116.58	1,767.8	960.2	2,790.3	2,723.8	41.959		
5,600.0	4,990.9	4,584.9	4,009.3	45.3	36.1	118.25	1,806.1	982.0	2,850.3	2,782.5	42.009		
5,700.0	5,080.2	4,666.0	4,076.9	46.1	36.9	119.74	1,845.0	1,004.1	2,908.7	2,839.5	42.048		
5,800.0	5,171.4	4,748.1	4,145.4	46.9	37.6	121.05	1,884.4	1,026.5	2,965.3	2,894.9	42.084		
5,900.0	5,264.3	4,831.0	4,214.6	47.6	38.4	122.19	1,924.1	1,049.0	3,020.1	2,948.4	42.119		
6,000.0	5,358.7	4,914.6	4,284.3	48.1	39.2	123.18	1,964.2	1,071.8	3,073.0	3,000.1	42.153		
6,100.0	5,454.5	4,998.7	4,354.5	48.7	40.0	124.03	2,004.5	1,094.8	3,123.9	3,049.9	42.188		
6,200.0	5,551.4	5,083.2	4,425.0	49.1	40.8	124.75	2,045.0	1,117.8	3,172.8	3,097.7	42.224		
6,300.0	5,649.4	5,167.8	4,495.6	49.4	41.6	125.35	2,085.6	1,140.8	3,219.8	3,143.6	42.264		
6,400.0	5,748.1	5,252.5	4,566.2	49.7	42.5	125.84	2,126.2	1,163.9	3,264.7	3,187.5	42.308		
6,500.0	5,847.4	5,337.1	4,636.8	49.9	43.3	126.22	2,166.7	1,187.0	3,307.6	3,229.5	42.359		
6,600.0	5,947.1	5,421.3	4,707.1	50.0	44.1	126.52	2,207.1	1,209.9	3,348.4	3,269.5	42.419		
6,700.0	6,047.0	5,505.1	4,777.0	50.1	44.9	126.72	2,247.3	1,232.8	3,387.4	3,307.6	42.494		
6,800.0	6,147.0	6,963.7	6,147.0	50.1	52.2	76.24	2,617.3	1,443.2	3,417.4	3,325.2	37.052		
6,900.0	6,247.0	7,063.7	6,247.0	50.1	52.2	76.24	2,617.3	1,443.2	3,417.4	3,325.1	37.039		
7,000.0	6,347.0	7,163.7	6,347.0	50.1	52.2	76.24	2,617.3	1,443.2	3,417.4	3,325.1	37.025		
7,100.0	6,447.0	7,263.7	6,447.0	50.2	52.2	76.24	2,617.3	1,443.2	3,417.4	3,325.1	37.010		
7,200.0	6,547.0	7,363.7	6,547.0	50.2	52.2	76.24	2,617.3	1,443.2	3,417.4	3,325.0	36.995		
7,300.0	6,647.0	7,463.7	6,647.0	50.2	52.2	76.24	2,617.3	1,443.2	3,417.4	3,325.0	36.980		
7,400.0	6,747.0	7,563.7	6,747.0	50.2	52.3	76.24	2,617.3	1,443.2	3,417.4	3,324.9	36.965		
7,500.0	6,847.0	7,663.7	6,847.0	50.2	52.3	76.24	2,617.3	1,443.2	3,417.4	3,324.9	36.950		
7,600.0	6,947.0	7,763.7	6,947.0	50.3	52.3	76.24	2,617.3	1,443.2	3,417.4	3,324.9	36.935		
7,700.0	7,047.0	7,863.7	7,047.0	50.3	52.3	76.24	2,617.3	1,443.2	3,417.4	3,324.8	36.920		
7,800.0	7,147.0	7,963.7	7,147.0	50.3	52.3	76.24	2,617.3	1,443.2	3,417.4	3,324.8	36.905		
7,900.0	7,247.0	8,063.7	7,247.0	50.3	52.3	76.24	2,617.3	1,443.2	3,417.4	3,324.8	36.889		
8,000.0	7,347.0	8,163.7	7,347.0	50.4	52.4	76.24	2,617.3	1,443.2	3,417.4	3,324.7	36.874		
8,100.0	7,447.0	8,263.7	7,447.0	50.4	52.4	76.24	2,617.3	1,443.2	3,417.4	3,324.7	36.858		
8,200.0	7,547.0	8,363.7	7,547.0	50.4	52.4	76.24	2,617.3	1,443.2	3,417.4	3,324.6	36.842		
8,300.0	7,647.0	8,463.7	7,647.0	50.4	52.4	76.24	2,617.3	1,443.2	3,417.4	3,324.6	36.827		
8,400.0	7,747.0	8,563.7	7,747.0	50.4	52.4	76.24	2,617.3	1,443.2	3,417.4	3,324.6	36.811		
8,500.0	7,847.0	8,663.7	7,847.0	50.5	52.4	76.24	2,617.3	1,443.2	3,417.4	3,324.5	36.795		
8,600.0	7,947.0	8,763.7	7,947.0	50.5	52.5	76.24	2,617.3	1,443.2	3,417.4	3,324.5	36.779		
8,700.0	8,047.0	8,863.7	8,047.0	50.5	52.5	76.24	2,617.3	1,443.2	3,417.4	3,324.4	36.762		
8,800.0	8,147.0	8,963.7	8,147.0	50.5	52.5	76.24	2,617.3	1,443.2	3,417.4	3,324.4	36.746		
8,900.0	8,247.0	9,063.7	8,247.0	50.6	52.5	76.24	2,617.3	1,443.2	3,417.4	3,324.4	36.730		
9,000.0	8,347.0	9,163.7	8,347.0	50.6	52.5	76.24	2,617.3	1,443.2	3,417.4	3,324.3	36.713		
9,100.0	8,447.0	9,263.7	8,447.0	50.6	52.6	76.24	2,617.3	1,443.2	3,417.4	3,324.3	36.697		
9,200.0	8,547.0	9,363.7	8,547.0	50.6	52.6	76.24	2,617.3	1,443.2	3,417.4	3,324.2	36.680		
9,300.0	8,647.0	9,463.7	8,647.0	50.7	52.6	76.24	2,617.3	1,443.2	3,417.4	3,324.2	36.663		
9,310.0	8,657.0	9,473.7	8,657.0	50.7	52.6	76.24	2,617.3	1,443.2	3,417.4	3,324.2	36.661		

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



Anticollision Report



Company:	Laramie Energy, LLC	Local Co-ordinate Reference:	Well Laramie 29-01 0993-20-14E - Slot A-7
Project:	Mesa County, CO	TVD Reference:	RKB=30' @ 7493.0usft (TBD)
Reference Site:	Laramie 0993-29-01	MD Reference:	RKB=30' @ 7493.0usft (TBD)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Laramie 29-01 0993-20-14E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft	
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft	
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	-46.63	16.6	-17.5	24.1					
100.0	100.0	100.0	100.0	0.4	0.4	-46.63	16.6	-17.5	24.1	23.3	30.451			
200.0	200.0	200.0	200.0	1.2	1.2	-46.63	16.6	-17.5	24.1	21.6	9.763	CC		
300.0	300.0	299.8	299.7	1.7	2.4	-41.61	18.4	-16.3	24.6	21.0	6.959	ES		
400.0	400.0	399.1	398.9	1.9	3.9	57.86	23.7	-12.6	26.6	22.0	5.787			
500.0	499.9	497.4	496.6	3.1	5.0	81.49	32.5	-6.6	32.3	25.7	4.930	SF		
600.0	599.5	593.8	591.8	4.5	5.9	103.15	44.4	1.5	46.4	37.9	5.476			
700.0	698.7	687.7	684.1	4.7	6.7	107.80	59.2	11.7	69.2	59.2	6.921			
800.0	797.4	779.5	773.3	5.3	7.5	107.43	76.7	23.6	97.2	85.8	8.473			
900.0	895.4	868.9	859.4	6.0	8.1	107.29	96.5	37.2	129.7	117.1	10.255			
1,000.0	992.6	955.7	942.1	6.8	8.7	107.26	118.5	52.2	166.3	152.7	12.243			
1,100.0	1,088.7	1,039.9	1,021.2	7.5	9.3	107.23	142.2	68.4	206.9	192.5	14.391			
1,200.0	1,183.6	1,121.3	1,096.7	8.1	9.8	107.15	167.3	85.7	251.1	236.0	16.625			
1,300.0	1,277.1	1,200.0	1,168.6	8.8	10.3	106.97	193.8	103.7	298.8	283.0	18.879			
1,400.0	1,369.1	1,275.6	1,236.6	9.4	10.7	106.68	221.1	122.4	349.9	333.3	21.135			
1,500.0	1,459.2	1,348.5	1,301.0	10.1	11.2	106.28	249.1	141.6	404.1	386.7	23.332			
1,600.0	1,547.5	1,420.5	1,363.6	10.7	11.6	105.82	278.4	161.7	461.1	443.0	25.446			
1,700.0	1,633.9	1,499.8	1,432.2	11.0	11.9	106.75	311.3	184.2	519.7	500.7	27.377			
1,800.0	1,719.9	1,578.9	1,500.6	11.4	12.2	108.73	344.1	206.6	578.8	559.0	29.152			
1,900.0	1,806.0	1,658.0	1,569.0	11.8	12.4	110.35	376.9	229.1	638.3	617.5	30.713			
2,000.0	1,892.0	1,737.1	1,637.5	12.2	12.7	111.70	409.7	251.5	698.1	676.4	32.092			
2,100.0	1,978.0	1,816.3	1,705.9	12.7	13.0	112.85	442.5	274.0	758.1	735.4	33.308			
2,200.0	2,064.1	1,895.4	1,774.3	13.3	13.2	113.82	475.3	296.4	818.3	794.5	34.380			
2,300.0	2,150.1	1,974.5	1,842.7	14.1	13.5	114.67	508.1	318.8	878.6	853.7	35.327			
2,400.0	2,236.2	2,053.7	1,911.1	14.9	13.8	115.41	540.9	341.3	939.0	913.1	36.166			
2,500.0	2,322.2	2,132.8	1,979.6	15.8	14.1	116.06	573.7	363.7	999.5	972.5	36.912			
2,600.0	2,408.3	2,211.9	2,048.0	16.7	14.5	116.64	606.5	386.2	1,060.1	1,031.9	37.576			
2,700.0	2,494.3	2,291.0	2,116.4	17.6	14.8	117.15	639.3	408.6	1,120.8	1,091.4	38.169			
2,800.0	2,580.4	2,370.2	2,184.8	18.5	15.1	117.61	672.1	431.1	1,181.5	1,150.9	38.702			
2,900.0	2,666.4	2,449.3	2,253.3	19.4	15.5	118.03	704.9	453.5	1,242.2	1,210.5	39.172			
3,000.0	2,752.5	2,528.4	2,321.7	20.4	16.2	118.41	737.7	476.0	1,303.0	1,270.1	39.607			
3,100.0	2,838.5	2,607.6	2,390.1	21.3	16.9	118.76	770.5	498.4	1,363.8	1,329.7	39.998			
3,200.0	2,924.5	2,686.7	2,458.5	22.3	17.5	119.07	803.3	520.9	1,424.6	1,389.3	40.352			
3,300.0	3,010.6	2,765.8	2,527.0	23.2	18.2	119.36	836.1	543.3	1,485.5	1,449.0	40.673			
3,400.0	3,096.6	2,844.9	2,595.4	24.1	18.9	119.63	868.9	565.7	1,546.4	1,508.6	40.966			
3,500.0	3,182.7	2,924.1	2,663.8	25.1	19.6	119.88	901.7	588.2	1,607.3	1,568.3	41.235			
3,600.0	3,268.7	3,003.2	2,732.2	26.1	20.3	120.11	934.5	610.6	1,668.2	1,628.0	41.481			
3,700.0	3,354.8	3,082.3	2,800.7	27.0	21.0	120.32	967.3	633.1	1,729.1	1,687.7	41.707			
3,800.0	3,440.8	3,161.5	2,869.1	28.0	21.6	120.52	1,000.1	655.5	1,790.1	1,747.4	41.915			
3,900.0	3,526.9	3,240.6	2,937.5	28.9	22.3	120.71	1,032.9	678.0	1,851.0	1,807.1	42.107			
4,000.0	3,612.9	3,319.7	3,005.9	29.9	23.0	120.88	1,065.7	700.4	1,912.0	1,866.8	42.285			
4,100.0	3,698.9	3,398.8	3,074.3	30.9	23.7	121.04	1,098.5	722.9	1,973.0	1,926.5	42.450			
4,200.0	3,785.0	3,478.0	3,142.8	31.8	24.4	121.20	1,131.3	745.3	2,034.0	1,986.3	42.603			
4,300.0	3,871.0	3,557.1	3,211.2	32.8	25.1	121.34	1,164.1	767.8	2,095.0	2,046.0	42.746			
4,400.0	3,957.1	3,636.2	3,279.6	33.7	25.8	121.48	1,196.9	790.2	2,156.0	2,105.7	42.879			
4,500.0	4,043.1	3,715.4	3,348.0	34.7	26.4	121.61	1,229.7	812.7	2,217.0	2,165.5	43.003			
4,600.0	4,129.2	3,794.5	3,416.5	35.7	27.1	121.73	1,262.5	835.1	2,278.1	2,225.2	43.119			
4,700.0	4,215.2	3,873.6	3,484.9	36.6	27.8	121.84	1,295.3	857.5	2,339.1	2,285.0	43.227			
4,800.0	4,301.3	3,952.7	3,553.3	37.6	28.5	121.95	1,328.1	880.0	2,400.1	2,344.7	43.329			
4,900.0	4,387.3	4,031.9	3,621.7	38.6	29.2	122.06	1,360.9	902.4	2,461.2	2,404.5	43.425			
5,000.0	4,473.3	4,111.0	3,690.2	39.5	29.9	122.16	1,393.7	924.9	2,522.2	2,464.3	43.515			
5,100.0	4,559.4	4,190.1	3,758.6	40.5	30.6	122.25	1,426.5	947.3	2,583.3	2,524.0	43.600			

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



Anticollision Report



Company:	Laramie Energy, LLC	Local Co-ordinate Reference:	Well Laramie 29-01 0993-20-14E - Slot A-7
Project:	Mesa County, CO	TVD Reference:	RKB=30' @ 7493.0usft (TBD)
Reference Site:	Laramie 0993-29-01	MD Reference:	RKB=30' @ 7493.0usft (TBD)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Laramie 29-01 0993-20-14E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design											Laramie 0993-29-01 - Laramie 29-01 Fed 0993-21-12W - OH - Design #1		Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard													Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning		
5,200.0	4,645.4	4,269.3	3,827.0	41.5	31.3	122.34	1,459.3	969.8	2,644.3	2,583.8	43.680			
5,300.0	4,731.5	4,348.4	3,895.4	42.5	32.0	122.43	1,492.1	992.2	2,705.4	2,643.6	43.756			
5,400.0	4,817.5	4,427.5	3,963.9	43.4	32.7	122.51	1,524.9	1,014.7	2,766.5	2,703.3	43.827			
5,500.0	4,903.6	4,506.7	4,032.3	44.4	33.3	122.71	1,557.7	1,037.1	2,827.5	2,763.1	43.896			
5,600.0	4,990.9	4,586.7	4,101.5	45.3	34.0	124.30	1,590.8	1,059.8	2,887.5	2,821.8	43.951			
5,700.0	5,080.2	4,668.1	4,171.9	46.1	34.8	125.69	1,624.6	1,082.9	2,945.5	2,878.5	43.980			
5,800.0	5,171.4	4,750.7	4,243.3	46.9	35.5	126.90	1,658.8	1,106.3	3,001.4	2,933.2	43.995			
5,900.0	5,264.3	4,834.5	4,315.8	47.6	36.2	127.95	1,693.6	1,130.1	3,055.2	2,985.7	43.999			
6,000.0	5,358.7	4,919.2	4,389.0	48.1	36.9	128.85	1,728.7	1,154.1	3,106.7	3,036.0	43.992			
6,100.0	5,454.5	5,004.7	4,462.9	48.7	37.7	129.61	1,764.1	1,178.4	3,155.9	3,084.1	43.977			
6,200.0	5,551.4	5,090.8	4,537.4	49.1	38.4	130.23	1,799.8	1,202.8	3,202.7	3,129.9	43.955			
6,300.0	5,649.4	5,177.3	4,612.2	49.4	39.2	130.74	1,835.7	1,227.4	3,247.3	3,173.3	43.928			
6,400.0	5,748.1	5,264.2	4,687.3	49.7	40.0	131.13	1,871.7	1,252.0	3,289.4	3,214.5	43.899			
6,500.0	5,847.4	5,351.1	4,762.5	49.9	40.7	131.42	1,907.7	1,276.7	3,329.1	3,253.3	43.870			
6,600.0	5,947.1	5,438.0	4,837.6	50.0	41.5	131.62	1,943.7	1,301.3	3,366.5	3,289.7	43.844			
6,700.0	6,047.0	5,524.7	4,912.6	50.1	42.2	131.72	1,979.7	1,325.9	3,401.5	3,323.9	43.829			
6,800.0	6,147.0	6,821.4	6,147.0	50.1	48.1	82.38	2,258.2	1,516.5	3,422.9	3,334.5	38.718			
6,900.0	6,247.0	6,921.4	6,247.0	50.1	48.1	82.38	2,258.2	1,516.5	3,422.9	3,334.4	38.703			
7,000.0	6,347.0	7,021.4	6,347.0	50.1	48.1	82.38	2,258.2	1,516.5	3,422.9	3,334.4	38.687			
7,100.0	6,447.0	7,121.4	6,447.0	50.2	48.1	82.38	2,258.2	1,516.5	3,422.9	3,334.4	38.670			
7,200.0	6,547.0	7,221.4	6,547.0	50.2	48.2	82.38	2,258.2	1,516.5	3,422.9	3,334.3	38.653			
7,300.0	6,647.0	7,321.4	6,647.0	50.2	48.2	82.38	2,258.2	1,516.5	3,422.9	3,334.3	38.636			
7,400.0	6,747.0	7,421.4	6,747.0	50.2	48.2	82.38	2,258.2	1,516.5	3,422.9	3,334.2	38.619			
7,500.0	6,847.0	7,521.4	6,847.0	50.2	48.2	82.38	2,258.2	1,516.5	3,422.9	3,334.2	38.602			
7,600.0	6,947.0	7,621.4	6,947.0	50.3	48.2	82.38	2,258.2	1,516.5	3,422.9	3,334.2	38.585			
7,700.0	7,047.0	7,721.4	7,047.0	50.3	48.2	82.38	2,258.2	1,516.5	3,422.9	3,334.1	38.568			
7,800.0	7,147.0	7,821.4	7,147.0	50.3	48.3	82.38	2,258.2	1,516.5	3,422.9	3,334.1	38.550			
7,900.0	7,247.0	7,921.4	7,247.0	50.3	48.3	82.38	2,258.2	1,516.5	3,422.9	3,334.0	38.533			
8,000.0	7,347.0	8,021.4	7,347.0	50.4	48.3	82.38	2,258.2	1,516.5	3,422.9	3,334.0	38.515			
8,100.0	7,447.0	8,121.4	7,447.0	50.4	48.3	82.38	2,258.2	1,516.5	3,422.9	3,334.0	38.497			
8,200.0	7,547.0	8,221.4	7,547.0	50.4	48.3	82.38	2,258.2	1,516.5	3,422.9	3,333.9	38.480			
8,300.0	7,647.0	8,321.4	7,647.0	50.4	48.4	82.38	2,258.2	1,516.5	3,422.9	3,333.9	38.462			
8,400.0	7,747.0	8,421.4	7,747.0	50.4	48.4	82.38	2,258.2	1,516.5	3,422.9	3,333.8	38.444			
8,500.0	7,847.0	8,521.4	7,847.0	50.5	48.4	82.38	2,258.2	1,516.5	3,422.9	3,333.8	38.426			
8,504.4	7,851.5	8,525.9	7,851.5	50.5	48.4	82.38	2,258.2	1,516.5	3,422.9	3,333.8	38.425			
8,600.0	7,947.0	8,560.4	7,886.0	50.5	48.4	82.38	2,258.2	1,516.5	3,423.4	3,334.3	38.414			
8,700.0	8,047.0	8,560.4	7,886.0	50.5	48.4	82.38	2,258.2	1,516.5	3,426.7	3,337.5	38.452			
8,800.0	8,147.0	8,560.4	7,886.0	50.5	48.4	82.38	2,258.2	1,516.5	3,432.8	3,343.8	38.547			
8,900.0	8,247.0	8,560.4	7,886.0	50.6	48.4	82.38	2,258.2	1,516.5	3,441.9	3,352.9	38.700			
9,000.0	8,347.0	8,560.4	7,886.0	50.6	48.4	82.38	2,258.2	1,516.5	3,453.8	3,365.0	38.910			
9,100.0	8,447.0	8,560.4	7,886.0	50.6	48.4	82.38	2,258.2	1,516.5	3,468.5	3,380.0	39.176			
9,200.0	8,547.0	8,560.4	7,886.0	50.6	48.4	82.38	2,258.2	1,516.5	3,486.1	3,397.9	39.498			
9,300.0	8,647.0	8,560.4	7,886.0	50.7	48.4	82.38	2,258.2	1,516.5	3,506.5	3,418.5	39.874			
9,310.0	8,657.0	8,560.4	7,886.0	50.7	48.4	82.38	2,258.2	1,516.5	3,508.6	3,420.7	39.914			

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



Anticollision Report



Company:	Laramie Energy, LLC	Local Co-ordinate Reference:	Well Laramie 29-01 0993-20-14E - Slot A-7
Project:	Mesa County, CO	TVD Reference:	RKB=30' @ 7493.0usft (TBD)
Reference Site:	Laramie 0993-29-01	MD Reference:	RKB=30' @ 7493.0usft (TBD)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Laramie 29-01 0993-20-14E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	-47.44	5.5	-5.9	8.1				
100.0	100.0	100.0	100.0	0.4	0.4	-47.44	5.5	-5.9	8.1	7.3	10.196		
200.0	200.0	200.0	200.0	1.2	1.2	-47.44	5.5	-5.9	8.1	5.6	3.269		
245.2	245.2	245.2	245.2	1.5	1.7	-44.28	5.8	-5.6	8.1	5.1	2.703	CC	
300.0	300.0	300.0	299.9	1.7	2.3	-32.15	7.0	-4.4	8.2	4.7	2.348	Level 1, ES	
400.0	400.0	399.5	399.2	1.9	3.9	88.94	11.5	0.3	11.5	6.3	2.220	Level 1, SF	
500.0	499.9	497.8	497.0	3.1	5.0	119.11	19.0	7.9	22.7	15.3	3.053		
600.0	599.5	594.1	592.2	4.5	5.9	132.81	29.1	18.2	42.9	33.5	4.540		
700.0	698.7	687.7	684.0	4.7	6.7	130.17	41.6	31.1	70.5	59.9	6.643		
800.0	797.4	778.8	772.6	5.3	7.4	125.46	56.2	46.1	102.6	90.8	8.669		
900.0	895.4	867.0	857.6	6.0	8.1	122.60	72.8	63.0	139.2	126.3	10.752		
1,000.0	992.6	952.3	938.8	6.8	8.7	120.74	90.9	81.6	180.2	166.3	12.967		
1,100.0	1,088.7	1,034.3	1,016.0	7.5	9.2	119.40	110.3	101.6	225.3	210.6	15.310		
1,200.0	1,183.6	1,113.1	1,089.2	8.1	9.7	118.31	130.8	122.6	274.3	258.9	17.735		
1,300.0	1,277.1	1,188.6	1,158.2	8.8	10.2	117.33	152.0	144.3	327.2	311.0	20.200		
1,400.0	1,369.1	1,260.6	1,223.2	9.4	10.6	116.37	173.8	166.6	383.6	366.7	22.683		
1,500.0	1,459.2	1,329.3	1,284.1	10.1	11.1	115.38	195.8	189.2	443.4	425.8	25.164		
1,600.0	1,547.5	1,400.0	1,345.9	10.7	11.5	114.47	219.8	213.9	506.3	487.9	27.458		
1,700.0	1,633.9	1,460.7	1,398.1	11.0	11.7	114.53	241.4	236.0	571.9	553.0	30.248		
1,800.0	1,719.9	1,534.2	1,461.2	11.4	11.9	116.21	267.8	263.0	638.4	618.7	32.456		
1,900.0	1,806.0	1,607.7	1,524.2	11.8	12.1	117.57	294.2	290.1	705.1	684.6	34.424		
2,000.0	1,892.0	1,681.2	1,587.3	12.2	12.4	118.71	320.5	317.1	772.0	750.7	36.170		
2,100.0	1,978.0	1,754.7	1,650.3	12.7	12.6	119.66	346.9	344.2	839.1	816.8	37.729		
2,200.0	2,064.1	1,828.2	1,713.4	13.3	12.9	120.48	373.3	371.2	906.3	883.1	39.123		
2,300.0	2,150.1	1,901.7	1,776.4	14.1	13.1	121.19	399.7	398.2	973.5	949.4	40.370		
2,400.0	2,236.2	1,975.2	1,839.5	14.9	13.4	121.80	426.0	425.3	1,040.8	1,015.7	41.480		
2,500.0	2,322.2	2,048.7	1,902.5	15.8	13.7	122.34	452.4	452.3	1,108.2	1,082.1	42.476		
2,600.0	2,408.3	2,122.2	1,965.6	16.7	14.0	122.82	478.8	479.3	1,175.7	1,148.6	43.372		
2,700.0	2,494.3	2,195.7	2,028.6	17.6	14.3	123.25	505.1	506.4	1,243.1	1,215.0	44.180		
2,800.0	2,580.4	2,269.2	2,091.7	18.5	14.6	123.64	531.5	533.4	1,310.6	1,281.5	44.897		
2,900.0	2,666.4	2,342.7	2,154.8	19.4	15.1	123.98	557.9	560.5	1,378.2	1,347.9	45.569		
3,000.0	2,752.5	2,416.2	2,217.8	20.4	15.8	124.30	584.2	587.5	1,445.7	1,414.4	46.161		
3,100.0	2,838.5	2,489.7	2,280.9	21.3	16.5	124.58	610.6	614.5	1,513.3	1,480.9	46.703		
3,200.0	2,924.5	2,563.2	2,343.9	22.3	17.1	124.85	637.0	641.6	1,580.9	1,547.4	47.196		
3,300.0	3,010.6	2,636.7	2,407.0	23.2	17.8	125.09	663.3	668.6	1,648.6	1,614.0	47.646		
3,400.0	3,096.6	2,710.2	2,470.0	24.1	18.5	125.31	689.7	695.6	1,716.2	1,680.5	48.059		
3,500.0	3,182.7	2,783.7	2,533.1	25.1	19.2	125.52	716.1	722.7	1,783.8	1,747.0	48.438		
3,600.0	3,268.7	2,857.2	2,596.1	26.1	19.8	125.71	742.5	749.7	1,851.5	1,813.6	48.785		
3,700.0	3,354.8	2,930.7	2,659.2	27.0	20.5	125.88	768.8	776.8	1,919.2	1,880.1	49.106		
3,800.0	3,440.8	3,004.2	2,722.2	28.0	21.2	126.05	795.2	803.8	1,986.9	1,946.6	49.403		
3,900.0	3,526.9	3,077.7	2,785.3	28.9	21.9	126.20	821.6	830.8	2,054.5	2,013.2	49.676		
4,000.0	3,612.9	3,151.2	2,848.3	29.9	22.6	126.35	847.9	857.9	2,122.2	2,079.7	49.930		
4,100.0	3,698.9	3,224.7	2,911.4	30.9	23.2	126.48	874.3	884.9	2,189.9	2,146.3	50.166		
4,200.0	3,785.0	3,298.2	2,974.4	31.8	23.9	126.61	900.7	912.0	2,257.7	2,212.8	50.386		
4,300.0	3,871.0	3,371.7	3,037.5	32.8	24.6	126.73	927.0	939.0	2,325.4	2,279.4	50.590		
4,400.0	3,957.1	3,445.2	3,100.6	33.7	25.3	126.84	953.4	966.0	2,393.1	2,346.0	50.780		
4,500.0	4,043.1	3,518.7	3,163.6	34.7	26.0	126.95	979.8	993.1	2,460.8	2,412.5	50.959		
4,600.0	4,129.2	3,592.2	3,226.7	35.7	26.6	127.05	1,006.2	1,020.1	2,528.5	2,479.1	51.126		
4,700.0	4,215.2	3,665.7	3,289.7	36.6	27.3	127.15	1,032.5	1,047.1	2,596.3	2,545.7	51.282		
4,800.0	4,301.3	3,739.1	3,352.8	37.6	28.0	127.24	1,058.9	1,074.2	2,664.0	2,612.2	51.429		
4,900.0	4,387.3	3,812.6	3,415.8	38.6	28.7	127.33	1,085.3	1,101.2	2,731.8	2,678.8	51.567		
5,000.0	4,473.3	3,886.1	3,478.9	39.5	29.4	127.41	1,111.6	1,128.3	2,799.5	2,745.4	51.696		

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



Anticollision Report



Company:	Laramie Energy, LLC	Local Co-ordinate Reference:	Well Laramie 29-01 0993-20-14E - Slot A-7
Project:	Mesa County, CO	TVD Reference:	RKB=30' @ 7493.0usft (TBD)
Reference Site:	Laramie 0993-29-01	MD Reference:	RKB=30' @ 7493.0usft (TBD)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Laramie 29-01 0993-20-14E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning	
5,100.0	4,559.4	3,959.6	3,541.9	40.5	30.0	127.49	1,138.0	1,155.3	2,867.3	2,811.9	51.818		
5,200.0	4,645.4	4,033.1	3,605.0	41.5	30.7	127.56	1,164.4	1,182.3	2,935.0	2,878.5	51.934		
5,300.0	4,731.5	4,106.6	3,668.0	42.5	31.4	127.63	1,190.7	1,209.4	3,002.8	2,945.1	52.043		
5,400.0	4,817.5	4,180.1	3,731.1	43.4	32.1	127.70	1,217.1	1,236.4	3,070.5	3,011.6	52.145		
5,500.0	4,903.6	4,253.7	3,794.1	44.4	32.8	127.90	1,243.5	1,263.4	3,138.3	3,078.2	52.244		
5,600.0	4,990.9	4,328.2	3,858.1	45.3	33.5	129.66	1,270.2	1,290.9	3,204.9	3,143.6	52.321		
5,700.0	5,080.2	4,404.6	3,923.6	46.1	34.2	131.20	1,297.6	1,319.0	3,269.4	3,206.9	52.354		
5,800.0	5,171.4	4,482.6	3,990.5	46.9	34.9	132.55	1,325.6	1,347.7	3,331.7	3,268.0	52.365		
5,900.0	5,264.3	4,562.0	4,058.7	47.6	35.6	133.72	1,354.1	1,376.9	3,391.6	3,326.8	52.356		
6,000.0	5,358.7	4,642.9	4,128.0	48.1	36.4	134.73	1,383.1	1,406.6	3,449.2	3,383.3	52.328		
6,100.0	5,454.5	4,724.8	4,198.4	48.7	37.2	135.59	1,412.5	1,436.8	3,504.3	3,437.3	52.285		
6,200.0	5,551.4	4,807.8	4,269.6	49.1	37.9	136.32	1,442.3	1,467.3	3,556.8	3,488.7	52.229		
6,300.0	5,649.4	4,891.7	4,341.5	49.4	38.7	136.92	1,472.4	1,498.2	3,606.8	3,537.6	52.163		
6,400.0	5,748.1	4,976.3	4,414.1	49.7	39.5	137.41	1,502.8	1,529.3	3,654.1	3,584.0	52.089		
6,500.0	5,847.4	5,061.4	4,487.1	49.9	40.3	137.80	1,533.3	1,560.6	3,698.8	3,627.6	52.010		
6,600.0	5,947.1	5,146.9	4,560.5	50.0	41.1	138.08	1,564.0	1,592.1	3,740.7	3,668.7	51.933		
6,700.0	6,047.0	5,232.7	4,634.0	50.1	41.9	138.28	1,594.7	1,623.6	3,780.0	3,707.1	51.866		
6,800.0	6,147.0	5,318.4	4,707.6	50.1	42.7	92.90	1,625.5	1,655.1	3,817.6	3,744.0	51.894		
6,900.0	6,247.0	5,404.2	4,781.2	50.1	43.5	92.38	1,656.3	1,686.7	3,855.5	3,781.2	51.927		
7,000.0	6,347.0	5,490.1	4,854.8	50.1	44.3	87.86	1,687.6	1,718.0	3,893.7	3,818.4	51.960		
7,100.0	6,447.0	5,576.0	4,928.4	50.2	45.1	87.86	1,718.5	1,749.0	3,932.0	3,855.7	51.993		
7,200.0	6,547.0	5,661.9	5,006.0	50.2	45.9	87.86	1,749.4	1,780.0	3,970.0	3,893.7	52.026		
7,300.0	6,647.0	5,747.8	5,083.6	50.2	46.7	87.86	1,780.3	1,811.0	4,007.7	3,932.0	52.059		
7,400.0	6,747.0	5,833.7	5,161.2	50.2	47.5	87.86	1,811.2	1,842.0	4,045.7	3,970.0	52.092		
7,500.0	6,847.0	5,919.6	5,238.8	50.2	48.3	87.86	1,842.1	1,873.0	4,083.7	3,970.0	52.125		
7,600.0	6,947.0	6,005.5	5,316.4	50.3	49.1	87.86	1,873.0	1,904.0	4,121.7	3,970.0	52.158		
7,700.0	7,047.0	6,091.4	5,394.0	50.3	49.9	87.86	1,904.0	1,935.0	4,159.7	3,970.0	52.191		
7,800.0	7,147.0	6,177.3	5,471.6	50.3	50.7	87.86	1,935.0	1,966.0	4,197.7	3,970.0	52.224		
7,900.0	7,247.0	6,257.2	5,549.2	50.3	51.5	87.86	1,966.0	1,997.0	4,235.7	3,970.0	52.257		
8,000.0	7,347.0	6,337.1	5,626.8	50.4	52.3	87.86	1,997.0	2,028.0	4,273.7	3,970.0	52.290		
8,100.0	7,447.0	6,417.0	5,704.4	50.4	53.1	87.86	2,028.0	2,059.0	4,311.7	3,970.0	52.323		
8,200.0	7,547.0	6,496.9	5,782.0	50.4	53.9	87.86	2,059.0	2,090.0	4,349.7	3,970.0	52.356		
8,300.0	7,647.0	6,576.8	5,859.6	50.4	54.7	87.86	2,090.0	2,121.0	4,387.7	3,970.0	52.389		
8,400.0	7,747.0	6,656.7	5,937.2	50.4	55.5	87.86	2,121.0	2,152.0	4,425.7	3,970.0	52.422		
8,500.0	7,847.0	6,736.6	6,014.8	50.5	56.3	87.86	2,152.0	2,183.0	4,463.7	3,970.0	52.455		
8,600.0	7,947.0	6,816.5	6,092.4	50.5	57.1	87.86	2,183.0	2,214.0	4,501.7	3,970.0	52.488		
8,700.0	8,047.0	6,896.4	6,170.0	50.5	57.9	87.86	2,214.0	2,245.0	4,539.7	3,970.0	52.521		
8,800.0	8,147.0	6,976.3	6,247.6	50.5	58.7	87.86	2,245.0	2,276.0	4,577.7	3,970.0	52.554		
8,900.0	8,247.0	7,056.2	6,325.2	50.6	59.5	87.86	2,276.0	2,307.0	4,615.7	3,970.0	52.587		
9,000.0	8,347.0	7,136.1	6,402.8	50.6	60.3	87.86	2,307.0	2,338.0	4,653.7	3,970.0	52.620		
9,100.0	8,447.0	7,216.0	6,480.4	50.6	61.1	87.86	2,338.0	2,369.0	4,691.7	3,970.0	52.653		
9,200.0	8,547.0	7,295.9	6,558.0	50.6	61.9	87.86	2,369.0	2,400.0	4,729.7	3,970.0	52.686		
9,300.0	8,647.0	7,375.8	6,635.6	50.7	62.7	87.86	2,400.0	2,431.0	4,767.7	3,970.0	52.719		
9,310.0	8,657.0	7,385.8	6,645.6	50.7	62.9	87.86	2,400.0	2,431.0	4,767.7	3,970.0	52.719		

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



Anticollision Report



Company:	Laramie Energy, LLC	Local Co-ordinate Reference:	Well Laramie 29-01 0993-20-14E - Slot A-7
Project:	Mesa County, CO	TVD Reference:	RKB=30' @ 7493.0usft (TBD)
Reference Site:	Laramie 0993-29-01	MD Reference:	RKB=30' @ 7493.0usft (TBD)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Laramie 29-01 0993-20-14E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft	
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft	
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	134.02	-5.5	5.7	7.9					
100.0	100.0	100.0	100.0	0.4	0.4	134.02	-5.5	5.7	7.9	7.1	9.936			
200.0	200.0	200.0	200.0	1.2	1.2	134.02	-5.5	5.7	7.9	5.4	3.186			
207.4	207.4	207.4	207.4	1.3	1.2	134.02	-5.5	5.7	7.9	5.4	3.127 CC			
300.0	300.0	299.9	299.9	1.7	1.7	125.38	-4.7	6.6	8.1	4.8	2.487 Level 1, ES			
400.0	400.0	399.6	399.4	1.9	3.3	-178.48	-1.2	10.8	11.4	6.8	2.479 Level 1, SF			
500.0	499.9	498.1	497.4	3.1	4.5	164.01	4.9	18.2	23.6	16.4	3.284			
600.0	599.5	594.5	592.9	4.5	5.5	158.37	13.4	28.6	44.4	35.0	4.731			
700.0	698.7	688.4	685.2	4.7	6.4	147.34	24.2	41.7	72.3	61.9	6.939			
800.0	797.4	779.5	774.1	5.3	7.1	138.51	36.9	57.2	105.2	93.5	9.061			
900.0	895.4	867.8	859.4	6.0	7.8	133.29	51.4	74.8	142.7	129.9	11.192			
1,000.0	992.6	952.9	940.7	6.8	8.4	129.91	67.4	94.2	184.7	170.9	13.441			
1,100.0	1,088.7	1,034.7	1,017.9	7.5	9.0	127.52	84.5	115.0	231.1	216.5	15.814			
1,200.0	1,183.6	1,112.9	1,090.9	8.1	9.5	125.67	102.5	136.8	281.6	266.2	18.277			
1,300.0	1,277.1	1,187.7	1,159.6	8.8	10.0	124.11	121.1	159.5	336.1	319.9	20.794			
1,400.0	1,369.1	1,258.8	1,224.1	9.4	10.4	122.69	140.2	182.7	394.3	377.4	23.345			
1,500.0	1,459.2	1,326.3	1,284.4	10.1	10.8	121.31	159.4	206.1	455.9	438.4	25.979			
1,600.0	1,547.5	1,394.4	1,344.4	10.7	11.0	120.04	179.9	231.0	520.7	502.5	28.643			
1,700.0	1,633.9	1,467.9	1,408.9	11.0	11.2	120.30	202.3	258.1	587.2	568.3	31.123			
1,800.0	1,719.9	1,541.1	1,473.2	11.4	11.5	121.86	224.5	285.1	654.1	634.5	33.370			
1,900.0	1,806.0	1,614.3	1,537.5	11.8	11.7	123.14	246.8	312.2	721.2	700.8	35.384			
2,000.0	1,892.0	1,687.5	1,601.8	12.2	12.0	124.20	269.0	339.2	788.5	767.3	37.191			
2,100.0	1,978.0	1,760.8	1,666.2	12.7	12.2	125.10	291.2	366.3	855.9	833.9	38.811			
2,200.0	2,064.1	1,834.0	1,730.5	13.3	12.5	125.87	313.5	393.3	923.4	900.5	40.268			
2,300.0	2,150.1	1,907.2	1,794.8	14.1	12.8	126.54	335.7	420.3	991.1	967.2	41.579			
2,400.0	2,236.2	1,980.4	1,859.1	14.9	13.1	127.12	358.0	447.4	1,058.7	1,034.0	42.755			
2,500.0	2,322.2	2,053.7	1,923.4	15.8	13.3	127.63	380.2	474.4	1,126.4	1,100.7	43.814			
2,600.0	2,408.3	2,126.9	1,987.7	16.7	13.6	128.09	402.5	501.4	1,194.2	1,167.5	44.773			
2,700.0	2,494.3	2,200.1	2,052.0	17.6	13.9	128.49	424.7	528.5	1,262.0	1,234.4	45.643			
2,800.0	2,580.4	2,273.3	2,116.3	18.5	14.2	128.86	447.0	555.5	1,329.8	1,301.2	46.424			
2,900.0	2,666.4	2,346.6	2,180.6	19.4	14.6	129.19	469.2	582.6	1,397.7	1,368.0	47.125			
3,000.0	2,752.5	2,419.8	2,244.9	20.4	15.1	129.49	491.5	609.6	1,465.6	1,434.9	47.796			
3,100.0	2,838.5	2,493.0	2,309.2	21.3	15.7	129.76	513.7	636.6	1,533.5	1,501.8	48.387			
3,200.0	2,924.5	2,566.2	2,373.6	22.3	16.3	130.01	536.0	663.7	1,601.4	1,568.7	48.930			
3,300.0	3,010.6	2,639.4	2,437.9	23.2	17.0	130.24	558.2	690.7	1,669.3	1,635.6	49.427			
3,400.0	3,096.6	2,712.7	2,502.2	24.1	17.6	130.45	580.5	717.7	1,737.3	1,702.5	49.884			
3,500.0	3,182.7	2,785.9	2,566.5	25.1	18.2	130.65	602.7	744.8	1,805.3	1,769.4	50.305			
3,600.0	3,268.7	2,859.1	2,630.8	26.1	18.9	130.83	625.0	771.8	1,873.2	1,836.3	50.694			
3,700.0	3,354.8	2,932.3	2,695.1	27.0	19.5	131.00	647.2	798.9	1,941.2	1,903.2	51.053			
3,800.0	3,440.8	3,005.6	2,759.4	28.0	20.1	131.16	669.5	825.9	2,009.2	1,970.1	51.386			
3,900.0	3,526.9	3,078.8	2,823.7	28.9	20.8	131.30	691.7	852.9	2,077.2	2,037.0	51.694			
4,000.0	3,612.9	3,152.0	2,888.0	29.9	21.4	131.44	714.0	880.0	2,145.2	2,103.9	51.981			
4,100.0	3,698.9	3,225.2	2,952.3	30.9	22.0	131.57	736.2	907.0	2,213.2	2,170.8	52.249			
4,200.0	3,785.0	3,298.5	3,016.6	31.8	22.7	131.69	758.5	934.0	2,281.2	2,237.8	52.498			
4,300.0	3,871.0	3,371.7	3,080.9	32.8	23.3	131.81	780.7	961.1	2,349.2	2,304.7	52.731			
4,400.0	3,957.1	3,444.9	3,145.3	33.7	23.9	131.92	802.9	988.1	2,417.3	2,371.6	52.948			
4,500.0	4,043.1	3,518.1	3,209.6	34.7	24.6	132.02	825.2	1,015.2	2,485.3	2,438.5	53.152			
4,600.0	4,129.2	3,591.3	3,273.9	35.7	25.2	132.12	847.4	1,042.2	2,553.3	2,505.5	53.344			
4,700.0	4,215.2	3,664.6	3,338.2	36.6	25.8	132.21	869.7	1,069.2	2,621.4	2,572.4	53.523			
4,800.0	4,301.3	3,737.8	3,402.5	37.6	26.5	132.30	891.9	1,096.3	2,689.4	2,639.3	53.692			
4,900.0	4,387.3	3,811.0	3,466.8	38.6	27.1	132.38	914.2	1,123.3	2,757.4	2,706.2	53.852			
5,000.0	4,473.3	3,884.2	3,531.1	39.5	27.7	132.46	936.4	1,150.3	2,825.5	2,773.2	54.002			

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



Anticollision Report



Company:	Laramie Energy, LLC	Local Co-ordinate Reference:	Well Laramie 29-01 0993-20-14E - Slot A-7
Project:	Mesa County, CO	TVD Reference:	RKB=30' @ 7493.0usft (TBD)
Reference Site:	Laramie 0993-29-01	MD Reference:	RKB=30' @ 7493.0usft (TBD)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Laramie 29-01 0993-20-14E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning	
5,100.0	4,559.4	3,957.5	3,595.4	40.5	28.4	132.53	958.7	1,177.4	2,893.5	2,840.1	54.144		
5,200.0	4,645.4	4,030.7	3,659.7	41.5	29.0	132.61	980.9	1,204.4	2,961.6	2,907.0	54.277		
5,300.0	4,731.5	4,103.9	3,724.0	42.5	29.6	132.67	1,003.2	1,231.5	3,029.7	2,974.0	54.404		
5,400.0	4,817.5	4,177.1	3,788.3	43.4	30.3	132.74	1,025.4	1,258.5	3,097.7	3,040.9	54.524		
5,500.0	4,903.6	4,250.4	3,852.7	44.4	30.9	132.93	1,047.7	1,285.5	3,165.8	3,107.8	54.639		
5,600.0	4,990.9	4,324.8	3,918.0	45.3	31.6	134.56	1,070.3	1,313.0	3,232.6	3,173.5	54.723		
5,700.0	5,080.2	4,401.2	3,985.1	46.1	32.2	135.99	1,093.5	1,341.2	3,297.0	3,236.8	54.747		
5,800.0	5,171.4	4,479.4	4,053.8	46.9	32.9	137.23	1,117.3	1,370.1	3,359.1	3,297.7	54.738		
5,900.0	5,264.3	4,559.3	4,124.0	47.6	33.6	138.30	1,141.5	1,399.6	3,418.6	3,356.1	54.700		
6,000.0	5,358.7	4,640.7	4,195.5	48.1	34.3	139.21	1,166.3	1,429.7	3,475.5	3,411.9	54.634		
6,100.0	5,454.5	4,723.5	4,268.2	48.7	35.0	139.98	1,191.4	1,460.2	3,529.7	3,465.0	54.546		
6,200.0	5,551.4	4,807.5	4,342.0	49.1	35.8	140.63	1,217.0	1,491.3	3,581.2	3,515.4	54.437		
6,300.0	5,649.4	4,892.5	4,416.7	49.4	36.5	141.15	1,242.8	1,522.7	3,629.8	3,563.0	54.311		
6,400.0	5,748.1	4,978.5	4,492.1	49.7	37.3	141.56	1,268.9	1,554.4	3,675.6	3,607.7	54.172		
6,500.0	5,847.4	5,065.2	4,568.3	49.9	38.0	141.88	1,295.3	1,586.4	3,718.4	3,649.6	54.023		
6,600.0	5,947.1	5,152.4	4,644.9	50.0	38.8	142.10	1,321.8	1,618.6	3,758.3	3,688.6	53.871		
6,700.0	6,047.0	5,240.1	4,721.9	50.1	39.5	142.24	1,348.4	1,651.0	3,795.3	3,724.7	53.729		
6,800.0	6,147.0	5,327.9	4,799.0	50.1	40.3	96.88	1,375.1	1,683.4	3,830.4	3,759.1	53.704		
6,900.0	6,247.0	5,415.7	4,876.1	50.1	41.1	96.40	1,401.8	1,715.8	3,865.7	3,793.7	53.684		
7,000.0	6,347.0	5,503.2	4,953.0	50.1	41.9	92.60	1,428.5	1,748.2	3,891.5	3,828.4	53.664		
7,100.0	6,447.0	5,590.7	5,030.0	50.2	42.7	92.60	1,455.3	1,780.6	3,917.5	3,863.0	53.644		
7,200.0	6,547.0	5,678.2	5,107.0	50.2	43.5	92.60	1,482.1	1,812.0	3,943.5	3,898.6	53.624		
7,300.0	6,647.0	5,765.7	5,184.0	50.2	44.3	92.60	1,508.9	1,843.4	3,969.5	3,934.2	53.604		
7,400.0	6,747.0	5,853.2	5,261.0	50.2	45.1	92.60	1,535.7	1,874.8	3,995.5	3,969.8	53.584		
7,500.0	6,847.0	5,940.7	5,338.0	50.2	45.9	92.60	1,562.5	1,906.2	4,021.5	3,995.8	53.564		
7,600.0	6,947.0	6,028.2	5,415.0	50.3	46.7	92.60	1,589.3	1,937.6	4,047.5	4,021.8	53.544		
7,700.0	7,047.0	6,115.7	5,492.0	50.3	47.5	92.60	1,616.1	1,969.0	4,073.5	4,047.8	53.524		
7,800.0	7,147.0	6,203.2	5,569.0	50.3	48.3	92.60	1,642.9	1,995.4	4,099.5	4,073.8	53.504		
7,900.0	7,247.0	6,290.7	5,646.0	50.3	49.1	92.60	1,669.7	2,021.8	4,125.5	4,099.8	53.484		
8,000.0	7,347.0	6,378.2	5,723.0	50.4	49.9	92.60	1,696.5	2,048.2	4,151.5	4,126.0	53.464		
8,100.0	7,447.0	6,465.7	5,800.0	50.4	50.7	92.60	1,723.3	2,074.6	4,177.5	4,152.2	53.444		
8,200.0	7,547.0	6,553.2	5,877.0	50.4	51.5	92.60	1,750.1	2,101.0	4,203.5	4,178.2	53.424		
8,300.0	7,647.0	6,640.7	5,954.0	50.4	52.3	92.60	1,776.9	2,127.4	4,229.5	4,204.0	53.404		
8,400.0	7,747.0	6,728.2	6,031.0	50.4	53.1	92.60	1,803.7	2,153.8	4,255.5	4,230.2	53.384		
8,500.0	7,847.0	6,815.7	6,108.0	50.5	53.9	92.60	1,830.5	2,180.2	4,281.5	4,256.4	53.364		
8,502.4	7,849.4	6,818.1	6,110.4	50.5	53.9	92.60	1,832.9	2,182.6	4,283.9	4,258.8	53.362		
8,600.0	7,947.0	6,903.2	6,185.0	50.5	54.7	92.60	1,859.7	2,208.6	4,309.5	4,284.8	53.344		
8,700.0	8,047.0	6,990.7	6,262.0	50.5	55.5	92.60	1,886.5	2,234.6	4,335.5	4,310.8	53.324		
8,800.0	8,147.0	7,078.2	6,339.0	50.5	56.3	92.60	1,913.3	2,260.6	4,361.5	4,336.8	53.304		
8,900.0	8,247.0	7,165.7	6,416.0	50.6	57.1	92.60	1,940.1	2,286.6	4,387.5	4,362.8	53.284		
9,000.0	8,347.0	7,253.2	6,493.0	50.6	57.9	92.60	1,966.9	2,312.6	4,413.5	4,388.8	53.264		
9,100.0	8,447.0	7,340.7	6,570.0	50.6	58.7	92.60	1,993.7	2,338.6	4,439.5	4,414.8	53.244		
9,200.0	8,547.0	7,428.2	6,647.0	50.6	59.5	92.60	2,020.5	2,364.6	4,465.5	4,440.8	53.224		
9,300.0	8,647.0	7,515.7	6,724.0	50.7	60.3	92.60	2,047.3	2,390.6	4,491.5	4,466.8	53.204		
9,310.0	8,657.0	7,520.1	6,730.0	50.7	60.4	92.60	2,051.7	2,395.0	4,496.9	4,471.9	53.200		

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



Anticollision Report



Company:	Laramie Energy, LLC	Local Co-ordinate Reference:	Well Laramie 29-01 0993-20-14E - Slot A-7
Project:	Mesa County, CO	TVD Reference:	RKB=30' @ 7493.0usft (TBD)
Reference Site:	Laramie 0993-29-01	MD Reference:	RKB=30' @ 7493.0usft (TBD)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Laramie 29-01 0993-20-14E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft	
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft	
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	133.04	-16.4	17.6	24.0					
100.0	100.0	100.0	100.0	0.4	0.4	133.04	-16.4	17.6	24.0	23.2	30.327			
200.0	200.0	200.0	200.0	1.2	1.2	133.04	-16.4	17.6	24.0	21.6	9.723			
203.5	203.5	203.5	203.5	1.3	1.2	133.04	-16.4	17.6	24.0	21.5	9.626	CC		
300.0	300.0	299.8	299.8	1.7	1.6	131.23	-16.0	18.2	24.2	21.0	7.541	ES		
400.0	400.0	399.3	399.2	1.9	3.0	-154.52	-13.3	22.1	26.3	22.3	6.459			
500.0	499.9	497.8	497.2	3.1	4.4	-170.73	-8.3	29.6	35.6	29.2	5.518	SF		
600.0	599.5	594.2	592.8	4.5	5.4	177.41	-1.1	40.2	54.2	45.2	6.027			
700.0	698.7	687.9	685.0	4.7	6.2	161.59	8.0	53.7	81.2	71.0	7.960			
800.0	797.4	778.9	773.9	5.3	7.0	149.81	18.9	69.8	114.1	102.6	9.964			
900.0	895.4	866.8	859.0	6.0	7.7	142.73	31.2	88.2	152.2	139.5	12.026			
1,000.0	992.6	951.4	940.0	6.8	8.3	138.13	44.9	108.4	195.2	181.5	14.241			
1,100.0	1,088.7	1,032.4	1,016.7	7.5	8.8	134.87	59.5	130.0	242.8	228.2	16.602			
1,200.0	1,183.6	1,109.8	1,089.1	8.1	9.4	132.39	74.8	152.8	294.9	279.4	19.075			
1,300.0	1,277.1	1,183.4	1,157.0	8.8	9.8	130.34	90.7	176.3	351.0	334.8	21.625			
1,400.0	1,369.1	1,253.1	1,220.5	9.4	10.2	128.53	106.8	200.2	411.1	394.1	24.291			
1,500.0	1,459.2	1,324.5	1,284.6	10.1	10.5	126.96	124.3	226.1	474.5	456.9	26.975			
1,600.0	1,547.5	1,399.3	1,351.8	10.7	10.7	125.75	142.8	253.5	539.8	521.5	29.503			
1,700.0	1,633.9	1,472.6	1,417.5	11.0	11.0	125.92	160.9	280.3	606.6	587.7	31.991			
1,800.0	1,719.9	1,545.5	1,482.9	11.4	11.2	127.39	178.9	307.0	673.9	654.3	34.278			
1,900.0	1,806.0	1,618.4	1,548.3	11.8	11.5	128.59	196.9	333.7	741.5	721.1	36.347			
2,000.0	1,892.0	1,691.3	1,613.8	12.2	11.7	129.60	214.9	360.4	809.1	788.0	38.219			
2,100.0	1,978.0	1,764.3	1,679.2	12.7	12.0	130.45	232.9	387.0	876.9	854.9	39.907			
2,200.0	2,064.1	1,837.2	1,744.6	13.3	12.3	131.19	250.9	413.7	944.8	922.0	41.437			
2,300.0	2,150.1	1,910.1	1,810.1	14.1	12.5	131.82	268.9	440.4	1,012.7	989.1	42.824			
2,400.0	2,236.2	1,983.0	1,875.5	14.9	12.8	132.38	286.9	467.1	1,080.8	1,056.2	44.077			
2,500.0	2,322.2	2,056.0	1,940.9	15.8	13.1	132.87	304.9	493.8	1,148.8	1,123.4	45.212			
2,600.0	2,408.3	2,128.9	2,006.4	16.7	13.4	133.31	322.9	520.5	1,216.9	1,190.6	46.246			
2,700.0	2,494.3	2,201.8	2,071.8	17.6	13.7	133.70	340.9	547.2	1,285.1	1,257.8	47.189			
2,800.0	2,580.4	2,274.7	2,137.2	18.5	14.0	134.05	358.9	573.9	1,353.2	1,325.1	48.043			
2,900.0	2,666.4	2,347.7	2,202.7	19.4	14.3	134.37	376.9	600.6	1,421.4	1,392.3	48.824			
3,000.0	2,752.5	2,420.6	2,268.1	20.4	14.6	134.66	394.9	627.2	1,489.6	1,459.6	49.536			
3,100.0	2,838.5	2,493.5	2,333.6	21.3	15.0	134.92	412.9	653.9	1,557.9	1,526.8	50.201			
3,200.0	2,924.5	2,566.4	2,399.0	22.3	15.5	135.17	430.9	680.6	1,626.1	1,594.1	50.834			
3,300.0	3,010.6	2,639.4	2,464.4	23.2	16.1	135.39	448.9	707.3	1,694.4	1,661.4	51.368			
3,400.0	3,096.6	2,712.3	2,529.9	24.1	16.7	135.59	466.9	734.0	1,762.6	1,728.7	51.880			
3,500.0	3,182.7	2,785.2	2,595.3	25.1	17.3	135.78	485.0	760.7	1,830.9	1,795.9	52.354			
3,600.0	3,268.7	2,858.2	2,660.7	26.1	17.9	135.96	503.0	787.4	1,899.2	1,863.2	52.794			
3,700.0	3,354.8	2,931.1	2,726.2	27.0	18.5	136.13	521.0	814.1	1,967.5	1,930.5	53.202			
3,800.0	3,440.8	3,004.0	2,791.6	28.0	19.0	136.28	539.0	840.7	2,035.8	1,997.8	53.581			
3,900.0	3,526.9	3,076.9	2,857.0	28.9	19.6	136.42	557.0	867.4	2,104.1	2,065.1	53.934			
4,000.0	3,612.9	3,149.9	2,922.5	29.9	20.2	136.56	575.0	894.1	2,172.5	2,132.4	54.263			
4,100.0	3,698.9	3,222.8	2,987.9	30.9	20.8	136.68	593.0	920.8	2,240.8	2,199.7	54.570			
4,200.0	3,785.0	3,295.7	3,053.3	31.8	21.4	136.80	611.0	947.5	2,309.1	2,267.0	54.857			
4,300.0	3,871.0	3,368.6	3,118.8	32.8	22.0	136.91	629.0	974.2	2,377.5	2,334.4	55.126			
4,400.0	3,957.1	3,441.6	3,184.2	33.7	22.5	137.02	647.0	1,000.9	2,445.8	2,401.7	55.379			
4,500.0	4,043.1	3,514.5	3,249.6	34.7	23.1	137.12	665.0	1,027.6	2,514.2	2,469.0	55.616			
4,600.0	4,129.2	3,587.4	3,315.1	35.7	23.7	137.21	683.0	1,054.2	2,582.5	2,536.3	55.839			
4,700.0	4,215.2	3,660.3	3,380.5	36.6	24.3	137.30	701.0	1,080.9	2,650.9	2,603.6	56.049			
4,800.0	4,301.3	3,733.3	3,446.0	37.6	24.9	137.39	719.0	1,107.6	2,719.3	2,670.9	56.247			
4,900.0	4,387.3	3,806.2	3,511.4	38.6	25.5	137.47	737.0	1,134.3	2,787.6	2,738.2	56.434			
5,000.0	4,473.3	3,879.1	3,576.8	39.5	26.1	137.55	755.0	1,161.0	2,856.0	2,805.5	56.610			

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



Anticollision Report



Company:	Laramie Energy, LLC	Local Co-ordinate Reference:	Well Laramie 29-01 0993-20-14E - Slot A-7
Project:	Mesa County, CO	TVD Reference:	RKB=30' @ 7493.0usft (TBD)
Reference Site:	Laramie 0993-29-01	MD Reference:	RKB=30' @ 7493.0usft (TBD)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Laramie 29-01 0993-20-14E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
5,100.0	4,559.4	3,952.0	3,642.3	40.5	26.6	137.62	773.0	1,187.7	2,924.4	2,872.8	56.777		
5,200.0	4,645.4	4,025.0	3,707.7	41.5	27.2	137.69	791.0	1,214.4	2,992.7	2,940.2	56.935		
5,300.0	4,731.5	4,097.9	3,773.1	42.5	27.8	137.76	809.0	1,241.1	3,061.1	3,007.5	57.085		
5,400.0	4,817.5	4,170.8	3,838.6	43.4	28.4	137.82	827.0	1,267.8	3,129.5	3,074.8	57.227		
5,500.0	4,903.6	4,243.8	3,904.0	44.4	29.0	138.00	845.1	1,294.4	3,197.9	3,142.1	57.363		
5,600.0	4,990.9	4,318.0	3,970.6	45.3	29.6	139.51	863.4	1,321.6	3,264.9	3,208.0	57.459		
5,700.0	5,080.2	4,394.4	4,039.1	46.1	30.2	140.81	882.2	1,349.6	3,329.3	3,271.4	57.474		
5,800.0	5,171.4	4,472.8	4,109.5	46.9	30.8	141.94	901.6	1,378.2	3,391.2	3,332.2	57.447		
5,900.0	5,264.3	4,553.0	4,181.5	47.6	31.5	142.90	921.4	1,407.6	3,450.4	3,390.3	57.380		
6,000.0	5,358.7	4,635.0	4,255.0	48.1	32.1	143.72	941.6	1,437.6	3,506.7	3,445.5	57.277		
6,100.0	5,454.5	4,718.5	4,330.0	48.7	32.8	144.40	962.3	1,468.2	3,560.2	3,497.9	57.143		
6,200.0	5,551.4	4,803.4	4,406.2	49.1	33.5	144.96	983.2	1,499.3	3,610.7	3,547.3	56.980		
6,300.0	5,649.4	4,889.6	4,483.5	49.4	34.2	145.42	1,004.5	1,530.8	3,658.1	3,593.7	56.794		
6,400.0	5,748.1	4,976.8	4,561.8	49.7	34.9	145.77	1,026.0	1,562.7	3,702.4	3,637.0	56.588		
6,500.0	5,847.4	5,064.9	4,640.8	49.9	35.6	146.02	1,047.8	1,595.0	3,743.6	3,677.2	56.368		
6,600.0	5,947.1	5,153.8	4,720.6	50.0	36.3	146.19	1,069.7	1,627.5	3,781.7	3,714.3	56.141		
6,700.0	6,047.0	5,243.2	4,800.8	50.1	37.0	146.28	1,091.8	1,660.2	3,816.6	3,748.3	55.923		
6,800.0	6,147.0	5,332.9	4,881.3	50.1	37.8	100.95	1,114.0	1,693.0	3,849.4	3,780.5	55.849		
6,900.0	6,247.0	5,422.7	4,961.8	50.1	38.5	100.51	1,136.1	1,725.9	3,882.4	3,812.8	55.781		
7,000.0	6,347.0	5,512.6	5,042.3	50.1	39.2	97.35	1,158.2	1,759.5	3,915.6	3,846.0	55.713		
7,100.0	6,447.0	5,603.5	5,123.8	50.2	40.0	97.35	1,180.3	1,793.5	3,948.7	3,879.1	55.645		
7,200.0	6,547.0	5,694.4	5,205.3	50.2	40.8	97.35	1,202.4	1,827.5	3,981.7	3,912.1	55.577		
7,300.0	6,647.0	5,785.3	5,286.8	50.2	41.6	97.35	1,224.5	1,861.5	4,014.7	3,945.1	55.509		
7,400.0	6,747.0	5,876.2	5,368.3	50.2	42.4	97.35	1,246.6	1,895.5	4,047.7	3,978.1	55.441		
7,500.0	6,847.0	5,967.1	5,449.8	50.2	43.2	97.35	1,268.7	1,929.5	4,080.7	4,011.1	55.373		
7,600.0	6,947.0	6,058.0	5,531.3	50.3	44.0	97.35	1,290.8	1,963.5	4,113.7	4,044.1	55.305		
7,700.0	7,047.0	6,148.9	5,612.8	50.3	44.8	97.35	1,312.9	1,997.5	4,146.7	4,077.1	55.237		
7,800.0	7,147.0	6,239.8	5,694.3	50.3	45.6	97.35	1,335.0	2,031.5	4,179.7	4,110.1	55.169		
7,900.0	7,247.0	6,330.7	5,775.8	50.3	46.4	97.35	1,357.1	2,065.5	4,212.7	4,143.1	55.101		
8,000.0	7,347.0	6,421.6	5,857.3	50.4	47.2	97.35	1,379.2	2,099.5	4,245.7	4,176.1	55.033		
8,100.0	7,447.0	6,512.5	5,938.8	50.4	48.0	97.35	1,401.3	2,133.5	4,278.7	4,209.1	54.965		
8,200.0	7,547.0	6,603.4	6,020.3	50.4	48.8	97.35	1,423.4	2,167.5	4,311.7	4,242.1	54.897		
8,300.0	7,647.0	6,694.3	6,101.8	50.4	49.6	97.35	1,445.5	2,201.5	4,344.7	4,275.1	54.829		
8,400.0	7,747.0	6,785.2	6,183.3	50.4	50.4	97.35	1,467.6	2,235.5	4,377.7	4,308.1	54.761		
8,500.0	7,847.0	6,876.1	6,264.8	50.5	51.2	97.35	1,489.7	2,269.5	4,410.7	4,341.1	54.693		
8,600.0	7,947.0	6,967.0	6,346.3	50.5	52.0	97.35	1,511.8	2,303.5	4,443.7	4,374.1	54.625		
8,700.0	8,047.0	7,057.9	6,427.8	50.5	52.8	97.35	1,533.9	2,337.5	4,476.7	4,407.1	54.557		
8,800.0	8,147.0	7,148.8	6,509.3	50.5	53.6	97.35	1,556.0	2,371.5	4,509.7	4,440.1	54.489		
8,900.0	8,247.0	7,239.7	6,590.8	50.6	54.4	97.35	1,578.1	2,405.5	4,542.7	4,473.1	54.421		
9,000.0	8,347.0	7,330.6	6,672.3	50.6	55.2	97.35	1,600.2	2,439.5	4,575.7	4,506.1	54.353		
9,100.0	8,447.0	7,421.5	6,753.8	50.6	56.0	97.35	1,622.3	2,473.5	4,608.7	4,539.1	54.285		
9,200.0	8,547.0	7,512.4	6,835.3	50.6	56.8	97.35	1,644.4	2,507.5	4,641.7	4,572.1	54.217		
9,300.0	8,647.0	7,603.3	6,916.8	50.7	57.6	97.35	1,666.5	2,541.5	4,674.7	4,605.1	54.149		
9,310.0	8,657.0	7,613.2	6,926.7	50.7	57.8	97.35	1,669.4	2,546.4	4,679.6	4,609.9	54.141		

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



Anticollision Report



Company:	Laramie Energy, LLC	Local Co-ordinate Reference:	Well Laramie 29-01 0993-20-14E - Slot A-7
Project:	Mesa County, CO	TVD Reference:	RKB=30' @ 7493.0usft (TBD)
Reference Site:	Laramie 0993-29-01	MD Reference:	RKB=30' @ 7493.0usft (TBD)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Laramie 29-01 0993-20-14E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	133.12	-27.3	29.2	40.0				
100.0	100.0	100.0	100.0	0.4	0.4	133.12	-27.3	29.2	40.0	39.2	50.449		
200.0	200.0	200.0	200.0	1.2	1.2	133.12	-27.3	29.2	40.0	37.5	16.174	CC	
300.0	300.0	299.5	299.5	1.7	1.7	131.50	-26.8	30.2	40.4	37.1	12.366	ES	
400.0	400.0	398.6	398.5	1.9	3.3	-150.58	-24.3	35.0	43.1	38.9	10.206		
500.0	499.9	496.5	495.9	3.1	4.5	-162.05	-19.9	43.4	52.6	46.1	8.169		
600.0	599.5	592.3	590.8	4.5	5.5	-172.59	-13.8	55.2	70.9	62.0	7.930	SF	
700.0	698.7	685.3	682.2	4.7	6.3	170.85	-6.1	70.0	98.0	87.8	9.587		
800.0	797.4	775.3	770.0	5.3	7.1	157.94	3.0	87.5	131.8	120.2	11.432		
900.0	895.4	862.0	853.9	6.0	7.7	149.91	13.3	107.2	171.3	158.5	13.403		
1,000.0	992.6	945.2	933.4	6.8	8.3	144.58	24.5	128.7	216.1	202.2	15.576		
1,100.0	1,088.7	1,024.6	1,008.5	7.5	8.9	140.78	36.4	151.7	265.7	250.9	17.927		
1,200.0	1,183.6	1,100.0	1,078.9	8.1	9.4	137.86	48.8	175.6	320.0	304.3	20.420		
1,300.0	1,277.1	1,171.5	1,144.8	8.8	9.8	135.47	61.6	200.1	378.5	362.1	23.090		
1,400.0	1,369.1	1,247.2	1,213.9	9.4	10.1	133.56	75.8	227.5	440.4	423.4	25.799		
1,500.0	1,459.2	1,323.6	1,283.7	10.1	10.3	132.09	90.2	255.2	504.3	486.6	28.389		
1,600.0	1,547.5	1,398.0	1,351.6	10.7	10.5	130.87	104.2	282.1	570.1	551.6	30.849		
1,700.0	1,633.9	1,470.6	1,417.9	11.0	10.8	130.99	117.9	308.4	637.6	618.5	33.345		
1,800.0	1,719.9	1,542.9	1,483.9	11.4	11.0	132.40	131.5	334.6	705.6	685.8	35.666		
1,900.0	1,806.0	1,615.2	1,549.9	11.8	11.3	133.56	145.1	360.8	773.8	753.3	37.781		
2,000.0	1,892.0	1,687.5	1,615.9	12.2	11.5	134.54	158.7	387.0	842.1	820.9	39.709		
2,100.0	1,978.0	1,759.8	1,681.9	12.7	11.8	135.38	172.4	413.2	910.6	888.6	41.462		
2,200.0	2,064.1	1,832.1	1,747.9	13.3	12.1	136.10	186.0	439.4	979.1	956.4	43.062		
2,300.0	2,150.1	1,904.4	1,813.9	14.1	12.3	136.72	199.6	465.6	1,047.8	1,024.2	44.523		
2,400.0	2,236.2	1,976.7	1,879.8	14.9	12.6	137.27	213.2	491.7	1,116.4	1,092.1	45.851		
2,500.0	2,322.2	2,049.0	1,945.8	15.8	12.9	137.76	226.8	517.9	1,185.2	1,160.0	47.064		
2,600.0	2,408.3	2,121.2	2,011.8	16.7	13.2	138.19	240.4	544.1	1,253.9	1,227.9	48.176		
2,700.0	2,494.3	2,193.5	2,077.8	17.6	13.5	138.58	254.1	570.3	1,322.7	1,295.8	49.195		
2,800.0	2,580.4	2,265.8	2,143.8	18.5	13.8	138.94	267.7	596.5	1,391.6	1,363.8	50.126		
2,900.0	2,666.4	2,338.1	2,209.8	19.4	14.1	139.25	281.3	622.7	1,460.4	1,431.8	50.983		
3,000.0	2,752.5	2,410.4	2,275.8	20.4	14.5	139.54	294.9	648.9	1,529.3	1,499.8	51.774		
3,100.0	2,838.5	2,482.7	2,341.8	21.3	14.8	139.81	308.5	675.1	1,598.2	1,567.7	52.501		
3,200.0	2,924.5	2,555.0	2,407.7	22.3	15.1	140.05	322.1	701.2	1,667.1	1,635.7	53.169		
3,300.0	3,010.6	2,627.3	2,473.7	23.2	15.5	140.28	335.8	727.4	1,736.0	1,703.8	53.783		
3,400.0	3,096.6	2,699.5	2,539.7	24.1	16.0	140.48	349.4	753.6	1,805.0	1,771.8	54.375		
3,500.0	3,182.7	2,771.8	2,605.7	25.1	16.5	140.67	363.0	779.8	1,873.9	1,839.8	54.913		
3,600.0	3,268.7	2,844.1	2,671.7	26.1	17.1	140.85	376.6	806.0	1,942.9	1,907.8	55.409		
3,700.0	3,354.8	2,916.4	2,737.7	27.0	17.6	141.02	390.2	832.2	2,011.9	1,975.8	55.871		
3,800.0	3,440.8	2,988.7	2,803.7	28.0	18.1	141.17	403.8	858.4	2,080.8	2,043.9	56.303		
3,900.0	3,526.9	3,061.0	2,869.7	28.9	18.7	141.32	417.5	884.5	2,149.8	2,111.9	56.707		
4,000.0	3,612.9	3,133.3	2,935.7	29.9	19.2	141.45	431.1	910.7	2,218.8	2,180.0	57.085		
4,100.0	3,698.9	3,205.6	3,001.6	30.9	19.7	141.58	444.7	936.9	2,287.8	2,248.0	57.439		
4,200.0	3,785.0	3,277.9	3,067.6	31.8	20.3	141.70	458.3	963.1	2,356.8	2,316.0	57.771		
4,300.0	3,871.0	3,350.1	3,133.6	32.8	20.8	141.82	471.9	989.3	2,425.8	2,384.1	58.083		
4,400.0	3,957.1	3,422.4	3,199.6	33.7	21.4	141.92	485.5	1,015.5	2,494.9	2,452.1	58.377		
4,500.0	4,043.1	3,494.7	3,265.6	34.7	21.9	142.02	499.2	1,041.7	2,563.9	2,520.2	58.653		
4,600.0	4,129.2	3,567.0	3,331.6	35.7	22.4	142.12	512.8	1,067.9	2,632.9	2,588.2	58.914		
4,700.0	4,215.2	3,639.3	3,397.6	36.6	23.0	142.21	526.4	1,094.0	2,701.9	2,656.3	59.159		
4,800.0	4,301.3	3,711.6	3,463.6	37.6	23.5	142.30	540.0	1,120.2	2,771.0	2,724.3	59.392		
4,900.0	4,387.3	3,783.9	3,529.5	38.6	24.1	142.38	553.6	1,146.4	2,840.0	2,792.4	59.612		
5,000.0	4,473.3	3,856.2	3,595.5	39.5	24.6	142.46	567.2	1,172.6	2,909.0	2,860.4	59.820		
5,100.0	4,559.4	3,928.5	3,661.5	40.5	25.1	142.54	580.8	1,198.8	2,978.1	2,928.5	60.017		

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



Anticollision Report



Company:	Laramie Energy, LLC	Local Co-ordinate Reference:	Well Laramie 29-01 0993-20-14E - Slot A-7
Project:	Mesa County, CO	TVD Reference:	RKB=30' @ 7493.0usft (TBD)
Reference Site:	Laramie 0993-29-01	MD Reference:	RKB=30' @ 7493.0usft (TBD)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Laramie 29-01 0993-20-14E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design											Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard											Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning
5,200.0	4,645.4	4,000.7	3,727.5	41.5	25.7	142.61	594.5	1,225.0	3,047.1	2,996.5	60.204	
5,300.0	4,731.5	4,073.0	3,793.5	42.5	26.2	142.68	608.1	1,251.2	3,116.2	3,064.6	60.382	
5,400.0	4,817.5	4,145.3	3,859.5	43.4	26.8	142.74	621.7	1,277.4	3,185.2	3,132.6	60.551	
5,500.0	4,903.6	4,217.6	3,925.5	44.4	27.3	142.91	635.3	1,303.5	3,254.2	3,200.6	60.714	
5,600.0	4,990.9	4,291.3	3,992.8	45.3	27.8	144.29	649.2	1,330.2	3,321.8	3,267.2	60.824	
5,700.0	5,080.2	4,367.3	4,062.2	46.1	28.4	145.49	663.5	1,357.8	3,386.8	3,331.1	60.835	
5,800.0	5,171.4	4,445.6	4,133.6	46.9	29.0	146.51	678.3	1,386.1	3,448.9	3,392.2	60.791	
5,900.0	5,264.3	4,525.8	4,206.8	47.6	29.6	147.38	693.4	1,415.2	3,508.2	3,450.4	60.698	
6,000.0	5,358.7	4,608.0	4,281.8	48.1	30.2	148.12	708.8	1,445.0	3,564.5	3,505.6	60.560	
6,100.0	5,454.5	4,691.9	4,358.4	48.7	30.8	148.73	724.7	1,475.4	3,617.7	3,557.8	60.381	
6,200.0	5,551.4	4,777.4	4,436.5	49.1	31.5	149.23	740.8	1,506.3	3,667.8	3,606.8	60.167	
6,300.0	5,649.4	4,864.3	4,515.8	49.4	32.1	149.63	757.1	1,537.8	3,714.6	3,652.6	59.923	
6,400.0	5,748.1	4,952.4	4,596.2	49.7	32.8	149.94	773.7	1,569.7	3,758.2	3,695.2	59.653	
6,500.0	5,847.4	5,041.6	4,677.7	49.9	33.5	150.16	790.5	1,602.0	3,798.5	3,734.5	59.364	
6,600.0	5,947.1	5,131.8	4,760.0	50.0	34.1	150.30	807.5	1,634.7	3,835.3	3,770.4	59.064	
6,700.0	6,047.0	5,222.6	4,842.9	50.1	34.8	150.36	824.6	1,667.6	3,868.8	3,803.0	58.774	
6,800.0	6,147.0	5,313.9	4,926.2	50.1	35.5	105.06	841.8	1,700.7	3,900.1	3,833.6	58.661	
6,900.0	6,247.0	5,405.2	5,009.6	50.1	36.2	104.68	859.0	1,733.8	3,931.5	3,864.3	58.555	
7,000.0	6,347.0	5,496.5	5,093.0	50.1	36.8	104.29	876.4	1,767.1	3,962.8	3,895.0	58.448	
7,100.0	6,447.0	5,587.1	5,176.4	50.2	37.4	103.90	893.8	1,800.4	3,994.1	3,925.7	58.341	
7,200.0	6,547.0	5,677.7	5,259.8	50.2	38.0	103.51	911.2	1,833.7	4,025.4	3,956.4	58.234	
7,300.0	6,647.0	5,768.3	5,343.2	50.2	38.6	103.12	928.6	1,867.0	4,056.7	3,987.1	58.127	
7,400.0	6,747.0	5,858.9	5,426.6	50.2	39.2	102.73	946.0	1,900.3	4,088.0	4,017.8	58.020	
7,500.0	6,847.0	5,949.5	5,510.0	50.2	39.8	102.34	963.4	1,933.6	4,119.3	4,048.5	57.913	
7,600.0	6,947.0	6,040.1	5,593.4	50.3	40.4	101.95	980.8	1,966.9	4,150.6	4,079.2	57.806	
7,700.0	7,047.0	6,130.7	5,676.8	50.3	41.0	101.56	998.2	1,999.2	4,181.9	4,110.0	57.699	
7,800.0	7,147.0	6,221.3	5,760.2	50.3	41.6	101.17	1,015.6	2,031.5	4,213.2	4,140.7	57.592	
7,900.0	7,247.0	6,311.9	5,843.6	50.3	42.2	100.78	1,033.0	2,063.8	4,244.5	4,171.4	57.485	
8,000.0	7,347.0	6,402.5	5,927.0	50.4	42.8	100.39	1,050.4	2,096.1	4,275.8	4,202.1	57.378	
8,100.0	7,447.0	6,493.1	6,010.4	50.4	43.4	100.00	1,067.8	2,128.4	4,307.1	4,232.8	57.271	
8,200.0	7,547.0	6,583.7	6,093.8	50.4	44.0	99.61	1,085.2	2,160.7	4,338.4	4,263.5	57.164	
8,300.0	7,647.0	6,674.3	6,177.2	50.4	44.6	99.22	1,102.6	2,193.0	4,369.7	4,294.2	57.057	
8,400.0	7,747.0	6,764.9	6,260.6	50.4	45.2	98.83	1,120.0	2,225.3	4,401.0	4,324.9	56.950	
8,500.0	7,847.0	6,855.5	6,344.0	50.5	45.8	98.44	1,137.4	2,257.6	4,432.3	4,355.6	56.843	
8,504.2	7,851.2	6,859.7	6,348.2	50.5	45.8	98.44	1,137.4	2,257.6	4,432.3	4,355.6	56.843	
8,600.0	7,947.0	6,946.1	6,427.6	50.5	46.4	98.05	1,154.8	2,290.0	4,463.6	4,386.3	56.736	
8,700.0	8,047.0	7,036.7	6,511.0	50.5	47.0	97.66	1,172.2	2,322.3	4,494.9	4,417.0	56.629	
8,800.0	8,147.0	7,127.3	6,594.4	50.5	47.6	97.27	1,189.6	2,354.6	4,526.2	4,447.7	56.522	
8,900.0	8,247.0	7,217.9	6,677.8	50.6	48.2	96.88	1,207.0	2,386.9	4,557.5	4,478.4	56.415	
9,000.0	8,347.0	7,308.5	6,761.2	50.6	48.8	96.49	1,224.4	2,419.2	4,588.8	4,509.1	56.308	
9,100.0	8,447.0	7,399.1	6,844.6	50.6	49.4	96.10	1,241.8	2,451.5	4,620.1	4,539.8	56.201	
9,200.0	8,547.0	7,489.7	6,928.0	50.6	50.0	95.71	1,259.2	2,483.8	4,651.4	4,570.5	56.094	
9,300.0	8,647.0	7,580.3	7,011.4	50.7	50.6	95.32	1,276.6	2,516.1	4,682.7	4,601.2	55.987	
9,310.0	8,657.0	7,584.5	7,015.6	50.7	50.6	95.32	1,276.6	2,516.1	4,682.7	4,601.2	55.987	

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



Anticollision Report



Company:	Laramie Energy, LLC	Local Co-ordinate Reference:	Well Laramie 29-01 0993-20-14E - Slot A-7
Project:	Mesa County, CO	TVD Reference:	RKB=30' @ 7493.0usft (TBD)
Reference Site:	Laramie 0993-29-01	MD Reference:	RKB=30' @ 7493.0usft (TBD)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Laramie 29-01 0993-20-14E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	133.17	-38.2	40.8	55.9				
100.0	100.0	100.0	100.0	0.4	0.4	133.17	-38.2	40.8	55.9	55.1	70.580		
200.0	200.0	200.0	200.0	1.2	1.2	133.17	-38.2	40.8	55.9	53.4	22.628	CC	
300.0	300.0	299.2	299.1	1.7	1.7	132.08	-37.8	41.9	56.5	53.2	17.211	ES	
400.0	400.0	397.7	397.6	1.9	3.2	-147.72	-36.0	46.9	59.6	55.3	13.815		
500.0	499.9	495.1	494.5	3.1	4.5	-156.10	-32.8	55.7	69.3	62.9	10.789		
600.0	599.5	590.3	588.8	4.5	5.5	-164.85	-28.3	68.1	87.5	78.6	9.884	SF	
700.0	698.7	682.6	679.6	4.7	6.3	178.90	-22.7	83.6	114.3	104.1	11.250		
800.0	797.4	771.9	766.7	5.3	7.1	165.61	-16.0	101.8	148.4	136.8	12.888		
900.0	895.4	857.7	849.7	6.0	7.7	157.10	-8.6	122.3	188.7	175.9	14.723		
1,000.0	992.6	939.7	928.1	6.8	8.3	151.34	-0.4	144.6	234.7	220.7	16.819		
1,100.0	1,088.7	1,017.7	1,001.9	7.5	8.8	147.17	8.2	168.3	285.8	270.9	19.133		
1,200.0	1,183.6	1,091.5	1,071.0	8.1	9.3	143.97	17.1	192.9	341.8	326.0	21.618		
1,300.0	1,277.1	1,167.0	1,140.9	8.8	9.6	141.43	26.9	219.8	402.0	385.5	24.407		
1,400.0	1,369.1	1,244.9	1,212.8	9.4	9.8	139.50	37.1	247.7	464.5	447.3	27.056		
1,500.0	1,459.2	1,320.7	1,283.0	10.1	10.0	137.96	47.0	274.9	529.1	511.2	29.607		
1,600.0	1,547.5	1,394.4	1,351.1	10.7	10.3	136.67	56.6	301.3	595.8	577.2	32.067		
1,700.0	1,633.9	1,466.1	1,417.4	11.0	10.5	136.68	66.0	327.0	664.4	645.2	34.625		
1,800.0	1,719.9	1,537.4	1,483.3	11.4	10.8	137.96	75.3	352.5	733.6	713.7	37.029		
1,900.0	1,806.0	1,608.8	1,549.2	11.8	11.0	139.03	84.6	378.1	802.9	782.4	39.234		
2,000.0	1,892.0	1,680.1	1,615.2	12.2	11.3	139.94	93.9	403.7	872.3	851.1	41.254		
2,100.0	1,978.0	1,751.4	1,681.1	12.7	11.5	140.71	103.2	429.3	941.8	920.0	43.105		
2,200.0	2,064.1	1,822.8	1,747.0	13.3	11.8	141.37	112.5	454.8	1,011.4	988.8	44.806		
2,300.0	2,150.1	1,894.1	1,813.0	14.1	12.1	141.96	121.8	480.4	1,081.1	1,057.8	46.366		
2,400.0	2,236.2	1,965.4	1,878.9	14.9	12.4	142.47	131.1	506.0	1,150.8	1,126.7	47.794		
2,500.0	2,322.2	2,036.8	1,944.9	15.8	12.7	142.92	140.4	531.5	1,220.5	1,195.7	49.108		
2,600.0	2,408.3	2,108.1	2,010.8	16.7	13.0	143.33	149.8	557.1	1,290.3	1,264.7	50.319		
2,700.0	2,494.3	2,179.4	2,076.7	17.6	13.3	143.69	159.1	582.7	1,360.2	1,333.7	51.430		
2,800.0	2,580.4	2,250.8	2,142.7	18.5	13.6	144.02	168.4	608.2	1,430.0	1,402.7	52.455		
2,900.0	2,666.4	2,322.1	2,208.6	19.4	13.9	144.32	177.7	633.8	1,499.9	1,471.8	53.404		
3,000.0	2,752.5	2,393.4	2,274.5	20.4	14.2	144.59	187.0	659.4	1,569.8	1,540.8	54.281		
3,100.0	2,838.5	2,464.8	2,340.5	21.3	14.5	144.84	196.3	685.0	1,639.7	1,609.9	55.090		
3,200.0	2,924.5	2,536.1	2,406.4	22.3	14.8	145.07	205.6	710.5	1,709.6	1,679.0	55.843		
3,300.0	3,010.6	2,607.4	2,472.4	23.2	15.1	145.28	214.9	736.1	1,779.5	1,748.1	56.543		
3,400.0	3,096.6	2,678.8	2,538.3	24.1	15.5	145.47	224.2	761.7	1,849.5	1,817.1	57.192		
3,500.0	3,182.7	2,750.1	2,604.2	25.1	15.8	145.65	233.6	787.2	1,919.4	1,886.2	57.796		
3,600.0	3,268.7	2,821.4	2,670.2	26.1	16.3	145.82	242.9	812.8	1,989.4	1,955.3	58.349		
3,700.0	3,354.8	2,892.8	2,736.1	27.0	16.7	145.98	252.2	838.4	2,059.4	2,024.4	58.893		
3,800.0	3,440.8	2,964.1	2,802.0	28.0	17.2	146.12	261.5	863.9	2,129.3	2,093.5	59.394		
3,900.0	3,526.9	3,035.4	2,868.0	28.9	17.7	146.26	270.8	889.5	2,199.3	2,162.6	59.852		
4,000.0	3,612.9	3,106.7	2,933.9	29.9	18.2	146.39	280.1	915.1	2,269.3	2,231.7	60.285		
4,100.0	3,698.9	3,178.1	2,999.9	30.9	18.7	146.51	289.4	940.7	2,339.3	2,300.8	60.694		
4,200.0	3,785.0	3,249.4	3,065.8	31.8	19.2	146.62	298.7	966.2	2,409.3	2,369.9	61.077		
4,300.0	3,871.0	3,320.7	3,131.7	32.8	19.7	146.73	308.0	991.8	2,479.3	2,439.0	61.438		
4,400.0	3,957.1	3,392.1	3,197.7	33.7	20.2	146.83	317.4	1,017.4	2,549.3	2,508.1	61.779		
4,500.0	4,043.1	3,463.4	3,263.6	34.7	20.7	146.93	326.7	1,042.9	2,619.4	2,577.2	62.101		
4,600.0	4,129.2	3,534.7	3,329.5	35.7	21.2	147.02	336.0	1,068.5	2,689.4	2,646.3	62.404		
4,700.0	4,215.2	3,606.1	3,395.5	36.6	21.7	147.11	345.3	1,094.1	2,759.4	2,715.4	62.691		
4,800.0	4,301.3	3,677.4	3,461.4	37.6	22.2	147.19	354.6	1,119.6	2,829.4	2,784.5	62.963		
4,900.0	4,387.3	3,748.7	3,527.4	38.6	22.7	147.27	363.9	1,145.2	2,899.4	2,853.6	63.221		
5,000.0	4,473.3	3,820.1	3,593.3	39.5	23.2	147.34	373.2	1,170.8	2,969.5	2,922.7	63.466		
5,100.0	4,559.4	3,891.4	3,659.2	40.5	23.7	147.41	382.5	1,196.4	3,039.5	2,991.8	63.698		

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



Anticollision Report



Company:	Laramie Energy, LLC	Local Co-ordinate Reference:	Well Laramie 29-01 0993-20-14E - Slot A-7
Project:	Mesa County, CO	TVD Reference:	RKB=30' @ 7493.0usft (TBD)
Reference Site:	Laramie 0993-29-01	MD Reference:	RKB=30' @ 7493.0usft (TBD)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Laramie 29-01 0993-20-14E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft	
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft	
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning		
5,200.0	4,645.4	3,962.7	3,725.2	41.5	24.2	147.48	391.8	1,221.9	3,109.5	3,060.9	63.918			
5,300.0	4,731.5	4,034.1	3,791.1	42.5	24.7	147.55	401.1	1,247.5	3,179.6	3,130.0	64.128			
5,400.0	4,817.5	4,105.4	3,857.0	43.4	25.2	147.61	410.5	1,273.1	3,249.6	3,199.1	64.327			
5,500.0	4,903.6	4,176.7	3,923.0	44.4	25.7	147.76	419.8	1,298.6	3,319.7	3,268.2	64.520			
5,600.0	4,990.9	4,249.6	3,990.3	45.3	26.2	149.02	429.3	1,324.7	3,388.2	3,335.7	64.649			
5,700.0	5,080.2	4,324.9	4,060.0	46.1	26.7	150.10	439.1	1,351.8	3,453.9	3,400.5	64.655			
5,800.0	5,171.4	4,402.6	4,131.8	46.9	27.3	151.02	449.3	1,379.6	3,516.7	3,462.3	64.595			
5,900.0	5,264.3	4,482.5	4,205.7	47.6	27.8	151.81	459.7	1,408.3	3,576.6	3,521.1	64.476			
6,000.0	5,358.7	4,564.5	4,281.5	48.1	28.4	152.46	470.4	1,437.7	3,633.3	3,576.8	64.302			
6,100.0	5,454.5	4,648.4	4,359.0	48.7	29.0	153.01	481.3	1,467.7	3,686.8	3,629.3	64.080			
6,200.0	5,551.4	4,734.1	4,438.2	49.1	29.6	153.46	492.5	1,498.4	3,737.0	3,678.5	63.815			
6,300.0	5,649.4	4,821.3	4,518.8	49.4	30.2	153.81	503.9	1,529.7	3,783.9	3,724.3	63.513			
6,400.0	5,748.1	4,910.0	4,600.8	49.7	30.8	154.08	515.5	1,561.5	3,827.3	3,766.7	63.179			
6,500.0	5,847.4	4,999.9	4,683.9	49.9	31.5	154.27	527.2	1,593.7	3,867.2	3,805.7	62.822			
6,600.0	5,947.1	5,090.9	4,768.1	50.0	32.1	154.38	539.1	1,626.3	3,903.6	3,841.1	62.452			
6,700.0	6,047.0	5,182.8	4,853.0	50.1	32.8	154.43	551.1	1,659.3	3,936.4	3,873.0	62.094			
6,800.0	6,147.0	5,275.3	4,938.4	50.1	33.4	109.18	563.2	1,692.4	3,966.9	3,902.8	61.952			
6,900.0	6,247.0	5,367.7	5,023.9	50.1	34.1	108.84	575.2	1,725.6	3,997.4	3,932.7	61.817			
7,000.0	6,347.0	5,461.3	5,110.4	50.1	34.8	108.49	587.1	1,758.7	4,027.3	3,962.6	61.682			
7,100.0	6,447.0	5,554.8	5,197.9	50.2	35.4	108.14	599.0	1,791.8	4,056.2	3,987.5	61.547			
7,200.0	6,547.0	5,648.3	5,285.4	50.2	36.0	107.79	610.9	1,824.9	4,084.1	3,998.4	61.412			
7,300.0	6,647.0	5,741.8	5,372.9	50.2	36.6	107.44	622.8	1,858.0	4,112.0	3,998.4	61.277			
7,400.0	6,747.0	5,835.3	5,460.4	50.2	37.2	107.09	634.7	1,891.1	4,139.9	3,998.4	61.142			
7,500.0	6,847.0	5,927.8	5,547.9	50.2	37.8	106.74	646.6	1,924.2	4,167.8	3,998.4	61.007			
7,600.0	6,947.0	6,020.3	5,635.4	50.3	38.4	106.39	658.5	1,957.3	4,195.7	3,998.4	60.872			
7,700.0	7,047.0	6,112.8	5,722.9	50.3	39.0	106.04	670.4	1,990.4	4,223.6	3,998.4	60.737			
7,800.0	7,147.0	6,205.3	5,810.4	50.3	39.6	105.69	682.3	2,023.5	4,251.5	3,998.4	60.602			
7,900.0	7,247.0	6,297.8	5,897.9	50.3	40.2	105.34	694.2	2,056.6	4,279.4	3,998.4	60.467			
8,000.0	7,347.0	6,390.3	5,985.4	50.4	40.8	105.00	706.1	2,089.7	4,307.3	3,998.4	60.332			
8,100.0	7,447.0	6,482.8	6,072.9	50.4	41.4	104.65	718.0	2,122.8	4,335.2	3,998.4	60.197			
8,200.0	7,547.0	6,575.3	6,160.4	50.4	42.0	104.30	729.9	2,155.9	4,363.1	3,998.4	60.062			
8,300.0	7,647.0	6,667.8	6,247.9	50.4	42.6	103.95	741.8	2,189.0	4,391.0	3,998.4	59.927			
8,400.0	7,747.0	6,760.3	6,335.4	50.4	43.2	103.60	753.7	2,222.1	4,418.9	3,998.4	59.792			
8,500.0	7,847.0	6,852.8	6,422.9	50.5	43.8	103.25	765.6	2,255.2	4,446.8	3,998.4	59.657			
8,600.0	7,947.0	6,945.3	6,510.4	50.5	44.4	102.90	777.5	2,288.3	4,474.7	3,998.4	59.522			
8,700.0	8,047.0	7,037.8	6,597.9	50.5	45.0	102.55	789.4	2,321.4	4,502.6	3,998.4	59.387			
8,800.0	8,147.0	7,130.3	6,685.4	50.5	45.6	102.20	801.3	2,354.5	4,530.5	3,998.4	59.252			
8,900.0	8,247.0	7,222.8	6,772.9	50.6	46.2	101.85	813.2	2,387.6	4,558.4	3,998.4	59.117			
9,000.0	8,347.0	7,315.3	6,860.4	50.6	46.8	101.50	825.1	2,420.7	4,586.3	3,998.4	58.982			
9,100.0	8,447.0	7,407.8	6,947.9	50.6	47.4	101.15	837.0	2,453.8	4,614.2	3,998.4	58.847			
9,200.0	8,547.0	7,500.3	7,035.4	50.6	48.0	100.80	848.9	2,486.9	4,642.1	3,998.4	58.712			
9,300.0	8,647.0	7,592.8	7,122.9	50.7	48.6	100.45	860.8	2,520.0	4,670.0	3,998.4	58.577			
9,310.0	8,657.0	7,602.8	7,132.9	50.7	48.7	100.40	862.8	2,523.0	4,673.0	3,998.4	58.567			

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



Anticollision Report



Company:	Laramie Energy, LLC	Local Co-ordinate Reference:	Well Laramie 29-01 0993-20-14E - Slot A-7
Project:	Mesa County, CO	TVD Reference:	RKB=30' @ 7493.0usft (TBD)
Reference Site:	Laramie 0993-29-01	MD Reference:	RKB=30' @ 7493.0usft (TBD)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Laramie 29-01 0993-20-14E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	133.19	-49.2	52.4	71.8				
100.0	100.0	100.0	100.0	0.4	0.4	133.19	-49.2	52.4	71.8	71.1	90.702		
200.0	200.0	200.0	200.0	1.2	1.2	133.19	-49.2	52.4	71.8	69.4	29.080	CC, ES	
300.0	300.0	298.2	298.2	1.7	2.2	131.82	-48.7	54.4	73.1	69.5	20.647		
400.0	400.0	396.0	395.8	1.9	3.8	-147.17	-47.3	60.6	77.4	72.6	16.191		
500.0	499.9	492.5	491.7	3.1	4.9	-153.71	-45.1	70.6	88.5	81.6	12.900		
600.0	599.5	586.7	584.9	4.5	5.8	-160.77	-42.0	84.1	107.8	98.6	11.744	SF	
700.0	698.7	677.9	674.4	4.7	6.6	-176.10	-38.2	100.8	135.7	125.2	12.986		
800.0	797.4	765.8	760.0	5.3	7.3	170.84	-33.9	120.2	171.0	159.2	14.507		
900.0	895.4	850.0	841.3	6.0	7.9	162.29	-29.0	141.7	212.9	199.8	16.258		
1,000.0	992.6	930.3	918.0	6.8	8.5	156.39	-23.8	164.9	260.6	246.4	18.308		
1,100.0	1,088.7	1,006.3	989.7	7.5	9.0	152.08	-18.3	189.3	313.7	298.5	20.632		
1,200.0	1,183.6	1,081.8	1,060.3	8.1	9.2	148.76	-12.3	215.6	371.6	355.8	23.391		
1,300.0	1,277.1	1,161.1	1,134.2	8.8	9.5	146.27	-6.0	243.7	432.4	415.8	26.033		
1,400.0	1,369.1	1,238.5	1,206.3	9.4	9.7	144.33	0.2	271.1	495.5	478.2	28.604		
1,500.0	1,459.2	1,313.6	1,276.3	10.1	9.9	142.75	6.2	297.7	561.0	542.9	31.108		
1,600.0	1,547.5	1,386.5	1,344.2	10.7	10.2	141.40	12.0	323.5	628.7	609.9	33.548		
1,700.0	1,633.9	1,457.2	1,410.1	11.0	10.4	141.33	17.7	348.5	698.4	679.1	36.139		
1,800.0	1,719.9	1,527.5	1,475.6	11.4	10.7	142.52	23.3	373.4	768.7	748.8	38.594		
1,900.0	1,806.0	1,597.8	1,541.1	11.8	10.9	143.51	28.9	398.3	839.1	818.6	40.856		
2,000.0	1,892.0	1,668.1	1,606.6	12.2	11.2	144.35	34.5	423.2	909.6	888.4	42.937		
2,100.0	1,978.0	1,738.4	1,672.1	12.7	11.4	145.07	40.2	448.1	980.2	958.4	44.858		
2,200.0	2,064.1	1,808.7	1,737.6	13.3	11.7	145.70	45.8	473.0	1,050.9	1,028.4	46.630		
2,300.0	2,150.1	1,879.0	1,803.1	14.1	12.0	146.25	51.4	497.9	1,121.6	1,098.4	48.261		
2,400.0	2,236.2	1,949.3	1,868.7	14.9	12.3	146.73	57.0	522.8	1,192.4	1,168.4	49.766		
2,500.0	2,322.2	2,019.6	1,934.2	15.8	12.6	147.16	62.6	547.7	1,263.2	1,238.5	51.156		
2,600.0	2,408.3	2,090.0	1,999.7	16.7	12.8	147.55	68.3	572.6	1,334.0	1,308.6	52.440		
2,700.0	2,494.3	2,160.3	2,065.2	17.6	13.1	147.89	73.9	597.4	1,404.9	1,378.7	53.626		
2,800.0	2,580.4	2,230.6	2,130.7	18.5	13.4	148.21	79.5	622.3	1,475.8	1,448.8	54.726		
2,900.0	2,666.4	2,300.9	2,196.2	19.4	13.7	148.49	85.1	647.2	1,546.7	1,519.0	55.746		
3,000.0	2,752.5	2,371.2	2,261.7	20.4	14.1	148.75	90.7	672.1	1,617.7	1,589.1	56.691		
3,100.0	2,838.5	2,441.5	2,327.3	21.3	14.4	148.99	96.4	697.0	1,688.6	1,659.3	57.570		
3,200.0	2,924.5	2,511.8	2,392.8	22.3	14.7	149.21	102.0	721.9	1,759.6	1,729.4	58.389		
3,300.0	3,010.6	2,582.1	2,458.3	23.2	15.0	149.41	107.6	746.8	1,830.5	1,799.6	59.152		
3,400.0	3,096.6	2,652.4	2,523.8	24.1	15.3	149.60	113.2	771.7	1,901.5	1,869.7	59.863		
3,500.0	3,182.7	2,722.7	2,589.3	25.1	15.6	149.77	118.8	796.6	1,972.5	1,939.9	60.529		
3,600.0	3,268.7	2,793.0	2,654.8	26.1	16.0	149.93	124.5	821.5	2,043.5	2,010.1	61.152		
3,700.0	3,354.8	2,863.3	2,720.3	27.0	16.3	150.08	130.1	846.4	2,114.5	2,080.3	61.734		
3,800.0	3,440.8	2,933.7	2,785.9	28.0	16.7	150.23	135.7	871.3	2,185.5	2,150.4	62.281		
3,900.0	3,526.9	3,004.0	2,851.4	28.9	17.2	150.36	141.3	896.1	2,256.5	2,220.6	62.796		
4,000.0	3,612.9	3,074.3	2,916.9	29.9	17.6	150.48	146.9	921.0	2,327.6	2,290.8	63.278		
4,100.0	3,698.9	3,144.6	2,982.4	30.9	18.1	150.60	152.6	945.9	2,398.6	2,360.9	63.721		
4,200.0	3,785.0	3,214.9	3,047.9	31.8	18.5	150.71	158.2	970.8	2,469.6	2,431.1	64.166		
4,300.0	3,871.0	3,285.2	3,113.4	32.8	19.0	150.81	163.8	995.7	2,540.7	2,501.3	64.570		
4,400.0	3,957.1	3,355.5	3,178.9	33.7	19.5	150.91	169.4	1,020.6	2,611.7	2,571.5	64.951		
4,500.0	4,043.1	3,425.8	3,244.5	34.7	19.9	151.00	175.0	1,045.5	2,682.8	2,641.7	65.312		
4,600.0	4,129.2	3,496.1	3,310.0	35.7	20.4	151.09	180.7	1,070.4	2,753.8	2,711.9	65.653		
4,700.0	4,215.2	3,566.4	3,375.5	36.6	20.9	151.18	186.3	1,095.3	2,824.9	2,782.0	65.977		
4,800.0	4,301.3	3,636.7	3,441.0	37.6	21.3	151.26	191.9	1,120.2	2,895.9	2,852.2	66.284		
4,900.0	4,387.3	3,707.0	3,506.5	38.6	21.8	151.33	197.5	1,145.1	2,967.0	2,922.4	66.576		
5,000.0	4,473.3	3,777.4	3,572.0	39.5	22.3	151.40	203.1	1,169.9	3,038.0	2,992.6	66.853		
5,100.0	4,559.4	3,847.7	3,637.5	40.5	22.8	151.47	208.8	1,194.8	3,109.1	3,062.8	67.116		

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



Anticollision Report



Company:	Laramie Energy, LLC	Local Co-ordinate Reference:	Well Laramie 29-01 0993-20-14E - Slot A-7
Project:	Mesa County, CO	TVD Reference:	RKB=30' @ 7493.0usft (TBD)
Reference Site:	Laramie 0993-29-01	MD Reference:	RKB=30' @ 7493.0usft (TBD)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Laramie 29-01 0993-20-14E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

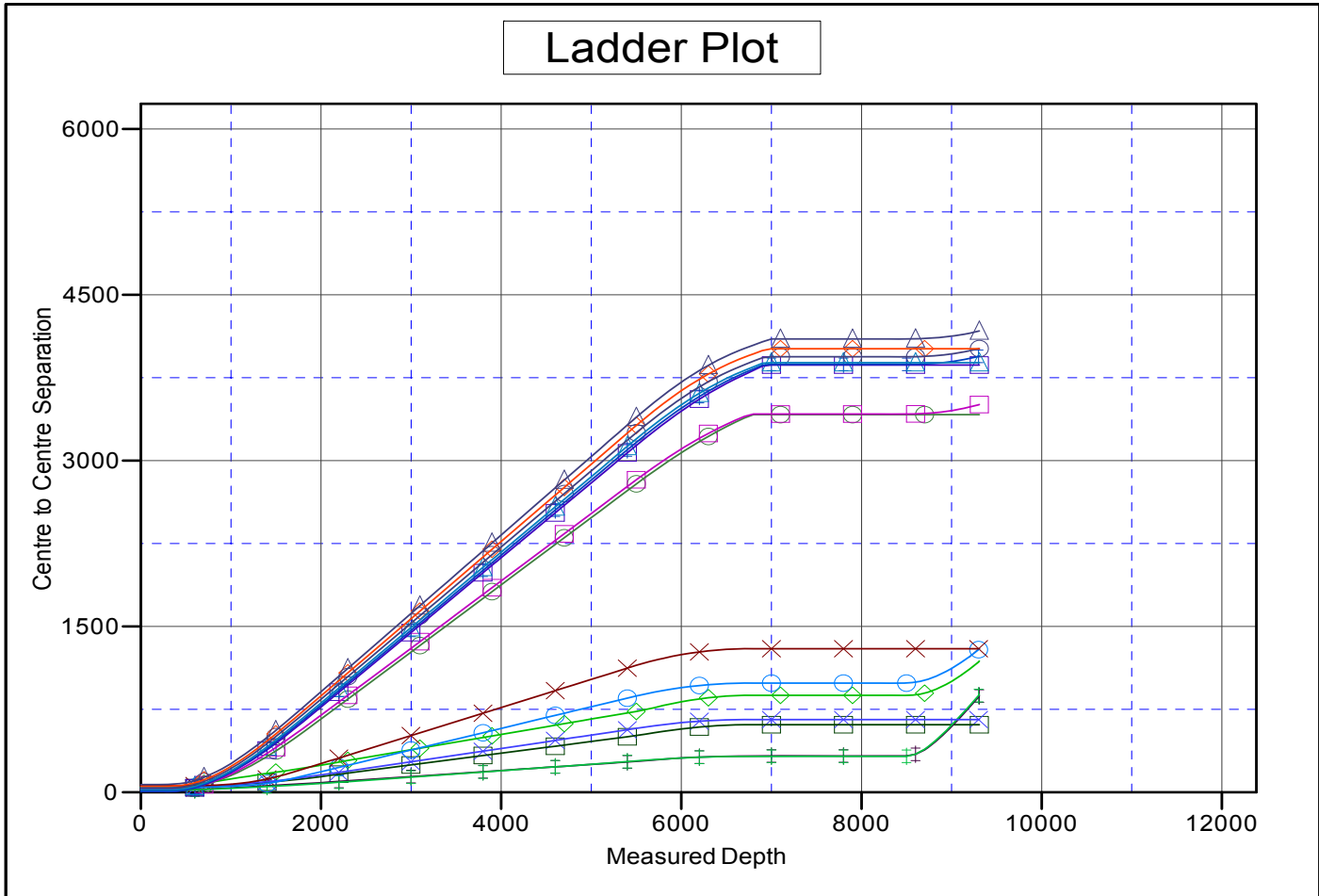
Offset Design											Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard											Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning
5,200.0	4,645.4	3,918.0	3,703.1	41.5	23.2	151.54	214.4	1,219.7	3,180.2	3,132.9	67.366	
5,300.0	4,731.5	3,988.3	3,768.6	42.5	23.7	151.60	220.0	1,244.6	3,251.2	3,203.1	67.605	
5,400.0	4,817.5	4,058.6	3,834.1	43.4	24.2	151.66	225.6	1,269.5	3,322.3	3,273.3	67.832	
5,500.0	4,903.6	4,128.9	3,899.6	44.4	24.6	151.81	231.2	1,294.4	3,393.4	3,343.5	68.051	
5,600.0	4,990.9	4,200.8	3,966.6	45.3	25.1	152.96	237.0	1,319.9	3,462.8	3,412.1	68.197	
5,700.0	5,080.2	4,275.3	4,036.0	46.1	25.6	153.94	242.9	1,346.2	3,529.5	3,477.7	68.200	
5,800.0	5,171.4	4,352.4	4,107.8	46.9	26.1	154.78	249.1	1,373.5	3,593.2	3,540.4	68.129	
5,900.0	5,264.3	4,431.8	4,181.8	47.6	26.7	155.49	255.4	1,401.6	3,653.8	3,600.0	67.989	
6,000.0	5,358.7	4,513.4	4,257.9	48.1	27.2	156.08	262.0	1,430.5	3,711.2	3,656.4	67.786	
6,100.0	5,454.5	4,597.1	4,335.9	48.7	27.8	156.58	268.7	1,460.2	3,765.3	3,709.5	67.528	
6,200.0	5,551.4	4,682.7	4,415.6	49.1	28.3	156.98	275.5	1,490.5	3,816.0	3,759.2	67.221	
6,300.0	5,649.4	4,770.0	4,497.0	49.4	28.9	157.30	282.5	1,521.4	3,863.2	3,805.4	66.871	
6,400.0	5,748.1	4,858.9	4,579.8	49.7	29.5	157.54	289.6	1,552.8	3,906.9	3,848.1	66.486	
6,500.0	5,847.4	4,949.1	4,663.9	49.9	30.1	157.72	296.8	1,584.8	3,947.0	3,887.3	66.074	
6,600.0	5,947.1	5,040.6	4,749.2	50.0	30.7	157.82	304.1	1,617.2	3,983.4	3,922.8	65.646	
6,700.0	6,047.0	5,133.2	4,835.4	50.1	31.4	157.87	311.5	1,650.0	4,016.2	3,954.6	65.234	
6,800.0	6,147.0	5,226.4	4,922.2	50.1	32.0	112.65	318.9	1,682.9	4,046.4	3,984.3	65.074	
6,900.0	6,247.0	5,319.5	5,009.1	50.1	32.6	112.37	326.4	1,715.9	4,076.8	4,014.0	64.922	
7,000.0	6,347.0	5,413.0	5,096.0	50.1	33.1	112.10	333.9	1,749.5	4,106.8	4,041.0	64.770	
7,100.0	6,447.0	5,506.1	5,183.0	50.2	33.5	110.25	341.3	1,783.5	4,136.3	4,068.0	64.618	
7,200.0	6,547.0	5,597.0	5,270.0	50.2	33.6	110.25	348.3	1,817.5	4,165.3	4,094.9	64.466	
7,300.0	6,647.0	5,687.0	5,357.0	50.2	33.6	110.25	355.3	1,851.5	4,193.3	4,121.9	64.314	
7,400.0	6,747.0	5,777.0	5,444.0	50.2	33.6	110.25	362.3	1,885.5	4,221.3	4,148.9	64.162	
7,500.0	6,847.0	5,867.0	5,531.0	50.2	33.7	110.25	369.3	1,919.5	4,249.3	4,175.9	64.010	
7,600.0	6,947.0	5,957.0	5,618.0	50.3	33.7	110.25	376.3	1,953.5	4,277.3	4,202.9	63.858	
7,700.0	7,047.0	6,047.0	5,705.0	50.3	33.7	110.25	383.3	1,987.5	4,305.3	4,229.9	63.706	
7,800.0	7,147.0	6,137.0	5,792.0	50.3	33.7	110.25	390.3	2,021.5	4,333.3	4,256.9	63.554	
7,900.0	7,247.0	6,227.0	5,879.0	50.3	33.8	110.25	397.3	2,055.5	4,361.3	4,283.9	63.402	
8,000.0	7,347.0	6,317.0	5,966.0	50.4	33.8	110.25	404.3	2,089.5	4,389.3	4,310.9	63.250	
8,100.0	7,447.0	6,407.0	6,053.0	50.4	33.8	110.25	411.3	2,123.5	4,417.3	4,337.9	63.098	
8,200.0	7,547.0	6,497.0	6,140.0	50.4	33.9	110.25	418.3	2,157.5	4,445.3	4,364.9	62.946	
8,300.0	7,647.0	6,587.0	6,227.0	50.4	33.9	110.25	425.3	2,191.5	4,473.3	4,391.9	62.794	
8,400.0	7,747.0	6,677.0	6,314.0	50.4	33.9	110.25	432.3	2,225.5	4,501.3	4,418.9	62.642	
8,500.0	7,847.0	6,767.0	6,401.0	50.5	38.0	110.25	439.3	2,259.5	4,529.3	4,445.9	62.490	
8,502.4	7,849.4	6,770.0	6,403.4	50.5	38.0	110.25	439.3	2,259.5	4,529.3	4,445.9	62.490	
8,600.0	7,947.0	6,857.0	6,490.0	50.5	38.0	110.25	446.3	2,293.5	4,557.3	4,472.9	62.338	
8,700.0	8,047.0	6,947.0	6,577.0	50.5	38.0	110.25	453.3	2,327.5	4,585.3	4,499.9	62.186	
8,800.0	8,147.0	7,037.0	6,664.0	50.5	38.0	110.25	460.3	2,361.5	4,613.3	4,526.9	62.034	
8,900.0	8,247.0	7,127.0	6,751.0	50.6	38.0	110.25	467.3	2,395.5	4,641.3	4,553.9	61.882	
9,000.0	8,347.0	7,217.0	6,838.0	50.6	38.0	110.25	474.3	2,429.5	4,669.3	4,580.9	61.730	
9,100.0	8,447.0	7,307.0	6,925.0	50.6	38.0	110.25	481.3	2,463.5	4,697.3	4,607.9	61.578	
9,200.0	8,547.0	7,397.0	7,012.0	50.6	38.0	110.25	488.3	2,497.5	4,725.3	4,634.9	61.426	
9,300.0	8,647.0	7,487.0	7,099.0	50.7	38.0	110.25	495.3	2,531.5	4,753.3	4,661.9	61.274	
9,310.0	8,657.0	7,490.0	7,100.0	50.7	38.0	110.25	495.3	2,531.5	4,753.3	4,661.9	61.274	

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



Company:	Laramie Energy, LLC	Local Co-ordinate Reference:	Well Laramie 29-01 0993-20-14E - Slot A-7
Project:	Mesa County, CO	TVD Reference:	RKB=30' @ 7493.0usft (TBD)
Reference Site:	Laramie 0993-29-01	MD Reference:	RKB=30' @ 7493.0usft (TBD)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Laramie 29-01 0993-20-14E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB=30' @ 7493.0usft (TBD) Coordinates are relative to: Laramie 29-01 0993-20-14E - Slot A-7
 Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, Colorado Central Zone
 Central Meridian is -105.500000 Grid Convergence at Surface is: -1.44°



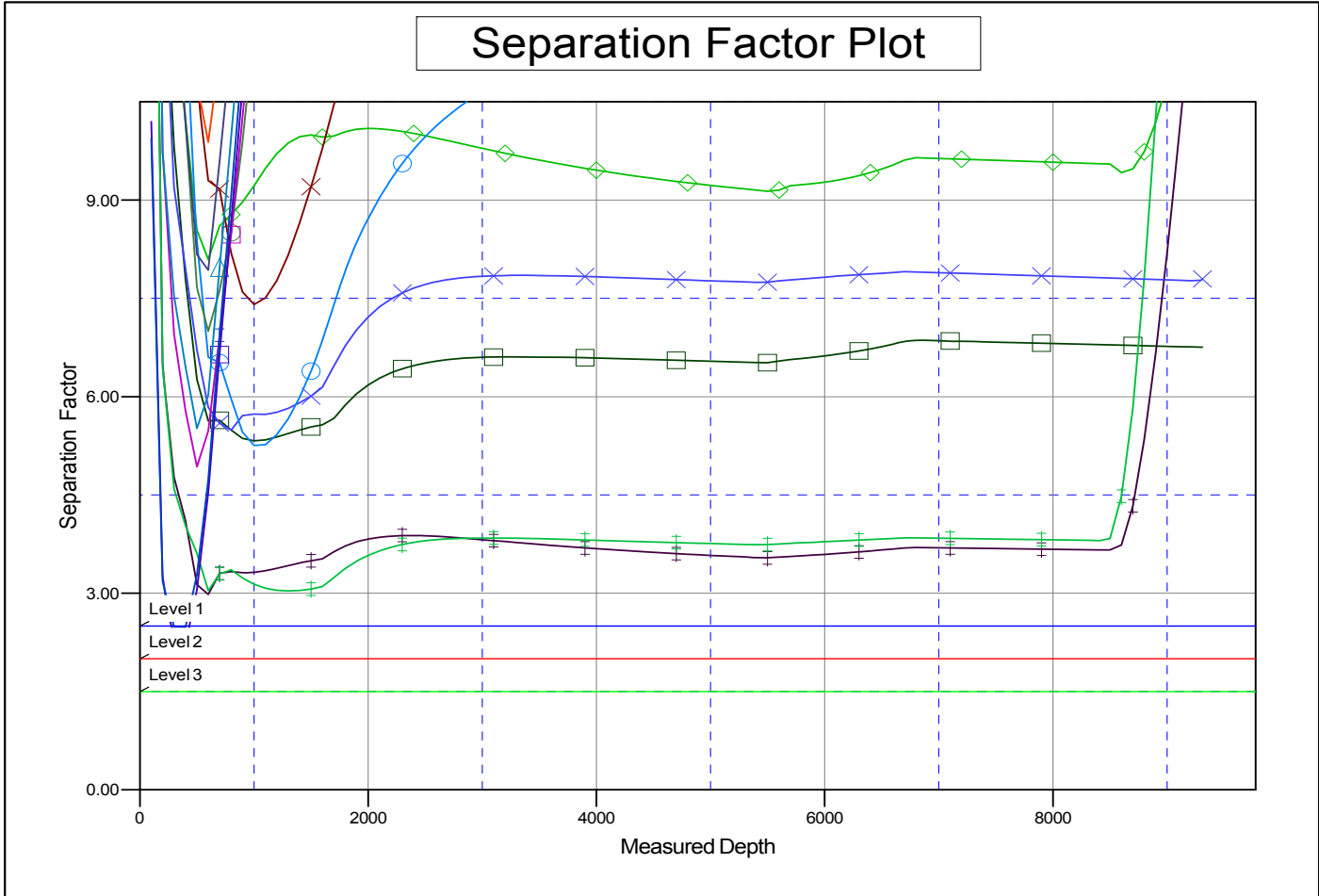
LEGEND

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|-------------------------------------|-------------------------------------------------|------------------------------------|
| 29-01 0993-20-11E, OH, Design #1 V0 | Laramie 29-01 0993-20-17E, OH, Design #1 V0 | Laramie 29-01 Fed 0993-21-14W, OH, |
| 29-01 0993-20-12E, OH, Design #1 V0 | Laramie 29-01 0993-20-18E, OH, Design #1 V0 | Laramie 29-01 Fed 0993-21-15W, OH, |
| 29-01 0993-20-13E, OH, Design #1 V0 | Laramie 29-01 Fed 0993-21-11W, OH, Design #1 V0 | Laramie 29-01 Fed 0993-21-16W, OH, |
| 29-01 0993-20-15E, OH, Design #1 V0 | Laramie 29-01 Fed 0993-21-12W, OH, Design #1 V0 | Laramie 29-01 Fed 0993-21-17W, OH, |
| 29-01 0993-20-16E, OH, Design #1 V0 | Laramie 29-01 Fed 0993-21-13W, OH, Design #1 V0 | Laramie 29-01 Fed 0993-21-18W, OH, |



Company:	Laramie Energy, LLC	Local Co-ordinate Reference:	Well Laramie 29-01 0993-20-14E - Slot A-7
Project:	Mesa County, CO	TVD Reference:	RKB=30' @ 7493.0usft (TBD)
Reference Site:	Laramie 0993-29-01	MD Reference:	RKB=30' @ 7493.0usft (TBD)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Laramie 29-01 0993-20-14E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
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LEGEND

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|-------------------------------------|---------------------------------------------------|--------------------------------------|
| 29-01 0993-20-11E, OH, Design #1 V0 | ○ Laramie 29-01 0993-20-17E, OH, Design #1 V0 | ⊕ Laramie 29-01 Fed 0993-21-14W, OH, |
| 29-01 0993-20-12E, OH, Design #1 V0 | ✕ Laramie 29-01 0993-20-18E, OH, Design #1 V0 | ⊕ Laramie 29-01 Fed 0993-21-15W, OH, |
| 29-01 0993-20-13E, OH, Design #1 V0 | ⊙ Laramie 29-01 Fed 0993-21-11W, OH, Design #1 V0 | ⊕ Laramie 29-01 Fed 0993-21-16W, OH, |
| 29-01 0993-20-15E, OH, Design #1 V0 | ⊕ Laramie 29-01 Fed 0993-21-12W, OH, Design #1 V0 | ⊕ Laramie 29-01 Fed 0993-21-17W, OH, |
| 29-01 0993-20-16E, OH, Design #1 V0 | ⊕ Laramie 29-01 Fed 0993-21-13W, OH, Design #1 V0 | ⊕ Laramie 29-01 Fed 0993-21-18W, OH, |