



Laramie Energy, LLC

Mesa County, CO

Laramie 0993-29-01

Laramie 29-01 0993-20-11E

OH

Design #2

KLX Anticollision Report

07 May, 2025





Anticollision Report



Company:	Laramie Energy, LLC	Local Co-ordinate Reference:	Well Laramie 29-01 0993-20-11E - Slot A1
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 0993-20-11E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	KLXDirectional-AD
Reference Design:	Design #2	Offset TVD Reference:	Offset Datum

Reference	Design #2		
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	5/7/2025		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	8,828.6	Design #2 (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
Gunderson 20-03 Pad						
Gunderson BCU 20-09E - Wellbore #1 - Wellbore #1	8,828.6	8,044.3	896.1	791.2	8.543	CC, ES, SF
Gunderson BCU 20-10E - Wellbore #1 - Wellbore #1	6,390.4	5,628.0	702.8	598.6	6.743	CC
Gunderson BCU 20-10E - Wellbore #1 - Wellbore #1	6,400.0	5,636.6	702.8	598.5	6.736	ES
Gunderson BCU 20-10E - Wellbore #1 - Wellbore #1	6,500.0	5,726.9	705.1	599.9	6.704	SF
Laramie 0993-29-01						
Laramie 29-01 0993-20-12E - OH - Design #2	200.0	200.0	10.0	7.2	3.532	CC
Laramie 29-01 0993-20-12E - OH - Design #2	300.0	300.1	10.6	6.7	2.721	ES
Laramie 29-01 0993-20-12E - OH - Design #2	2,900.0	2,896.0	101.2	57.4	2.310	Level 1, SF
Laramie 29-01 0993-20-13E - OH - Design #2	200.0	200.0	14.1	11.3	4.998	CC, ES
Laramie 29-01 0993-20-13E - OH - Design #2	400.0	400.2	20.5	14.7	3.542	SF
Laramie 29-01 0993-20-14E - OH - Design #2	200.0	200.0	22.4	19.5	7.900	CC, ES
Laramie 29-01 0993-20-14E - OH - Design #2	500.0	501.1	35.4	27.6	4.550	SF
Laramie 29-01 0993-20-15E - OH - Design #2	200.0	200.0	31.6	28.8	11.179	CC, ES
Laramie 29-01 0993-20-15E - OH - Design #2	500.0	501.4	46.9	39.0	5.917	SF
Laramie 29-01 0993-20-16E - OH - Design #2	200.0	200.0	51.0	48.2	18.024	CC, ES
Laramie 29-01 0993-20-16E - OH - Design #2	500.0	502.6	63.4	55.5	7.955	SF
Laramie 29-01 0993-20-17E - OH - Design #2	200.0	200.0	60.8	58.0	21.498	CC, ES
Laramie 29-01 0993-20-17E - OH - Design #2	600.0	602.5	87.3	78.1	9.549	SF
Laramie 29-01 0993-20-18E - OH - Design #2	200.0	200.0	80.6	77.8	28.494	CC, ES
Laramie 29-01 0993-20-18E - OH - Design #2	600.0	604.0	107.0	97.8	11.651	SF
Laramie 29-01 Fed 0993-21-11W - OH - Design #2	200.0	200.0	10.0	7.2	3.532	CC, ES
Laramie 29-01 Fed 0993-21-11W - OH - Design #2	300.0	300.1	11.6	7.4	2.784	SF
Laramie 29-01 Fed 0993-21-12W - OH - Design #2	200.0	200.0	20.0	17.2	7.066	CC, ES
Laramie 29-01 Fed 0993-21-12W - OH - Design #2	400.0	400.0	26.8	21.1	4.717	SF
Laramie 29-01 Fed 0993-21-13W - OH - Design #2	200.0	200.0	30.0	27.2	10.607	CC, ES
Laramie 29-01 Fed 0993-21-13W - OH - Design #2	400.0	399.6	38.2	32.5	6.711	SF
Laramie 29-01 Fed 0993-21-14W - OH - Design #2	200.0	200.0	40.0	37.2	14.141	CC, ES
Laramie 29-01 Fed 0993-21-14W - OH - Design #2	400.0	399.2	48.9	43.0	8.352	SF
Laramie 29-01 Fed 0993-21-15W - OH - Design #2	200.0	200.0	50.0	47.2	17.673	CC, ES
Laramie 29-01 Fed 0993-21-15W - OH - Design #2	500.0	497.5	70.6	63.5	9.900	SF
Laramie 29-01 Fed 0993-21-16W - OH - Design #2	200.0	200.0	60.0	57.2	21.207	CC, ES
Laramie 29-01 Fed 0993-21-16W - OH - Design #2	500.0	497.1	80.4	73.0	10.855	SF
Laramie 29-01 Fed 0993-21-17W - OH - Design #2	200.0	200.0	70.0	67.2	24.741	CC, ES
Laramie 29-01 Fed 0993-21-17W - OH - Design #2	500.0	494.8	93.6	86.1	12.434	SF
Laramie 29-01 Fed 0993-21-18W - OH - Design #2	200.0	200.0	80.0	77.2	28.272	CC, ES
Laramie 29-01 Fed 0993-21-18W - OH - Design #2	500.0	493.9	103.6	95.9	13.412	SF

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



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Reference Wellbore	OH	Database:	KLXDirectional-AD
Reference Design:	Design #2	Offset TVD Reference:	Offset Datum

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						

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 110-MWD *DNU*												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	
800.0	793.3	2,865.2	2,662.0	7.6	19.3	-4.89	3,922.2	-2,337.8	4,993.1	4,968.6	203.780		
900.0	889.4	2,904.0	2,696.2	8.3	19.7	-2.51	3,911.9	-2,322.7	4,926.5	4,901.2	194.698		
1,000.0	984.2	2,960.5	2,746.1	8.9	20.2	-0.50	3,897.1	-2,300.8	4,857.0	4,830.9	185.744		
1,100.0	1,077.6	3,118.5	2,885.4	9.6	21.6	1.67	3,855.8	-2,238.5	4,784.5	4,757.0	174.321		
1,200.0	1,169.4	3,165.0	2,926.1	10.2	22.0	3.32	3,843.4	-2,219.9	4,708.3	4,680.1	167.024		
1,300.0	1,259.4	3,186.0	2,944.6	10.8	22.2	4.80	3,837.9	-2,211.5	4,629.8	4,601.0	160.821		
1,400.0	1,347.4	3,236.7	2,989.2	11.4	22.7	6.45	3,824.7	-2,191.3	4,548.9	4,519.4	154.271		
1,500.0	1,433.3	3,281.0	3,028.2	11.9	23.1	8.14	3,813.4	-2,173.8	4,466.0	4,435.9	148.235		
1,600.0	1,516.9	3,410.6	3,142.0	12.5	24.3	10.70	3,779.1	-2,122.0	4,380.1	4,349.0	140.867		
1,700.0	1,598.0	3,444.2	3,171.4	12.9	24.6	12.52	3,769.9	-2,108.6	4,292.2	4,260.6	135.808		
1,800.0	1,678.2	3,499.5	3,219.9	13.3	25.1	13.11	3,755.0	-2,086.5	4,203.6	4,171.5	130.810		
1,900.0	1,758.4	3,580.0	3,289.9	13.6	25.8	14.02	3,733.0	-2,053.7	4,114.7	4,081.9	125.574		
2,000.0	1,838.6	3,616.3	3,321.5	14.1	26.2	14.46	3,723.2	-2,038.6	4,025.8	3,992.5	121.074		
2,100.0	1,918.8	3,657.0	3,356.8	14.6	26.6	14.97	3,712.3	-2,021.6	3,937.0	3,903.2	116.607		
2,200.0	1,999.0	3,689.9	3,385.3	15.4	26.9	15.41	3,703.6	-2,007.6	3,848.4	3,814.1	112.308		
2,300.0	2,079.2	3,727.1	3,417.6	16.3	27.3	15.93	3,694.0	-1,991.7	3,759.9	3,725.1	108.042		
2,400.0	2,159.4	3,752.0	3,439.1	17.4	27.5	16.29	3,687.7	-1,980.9	3,671.6	3,636.3	103.982		
2,500.0	2,239.6	3,792.3	3,473.9	18.5	27.9	16.90	3,677.6	-1,963.5	3,583.5	3,547.7	99.846		
2,600.0	2,319.8	3,823.1	3,500.7	19.6	28.2	17.37	3,669.9	-1,950.2	3,495.8	3,459.3	95.883		
2,700.0	2,400.0	3,846.0	3,520.6	20.7	28.4	17.73	3,664.3	-1,940.4	3,408.3	3,371.3	92.060		
2,800.0	2,480.2	3,879.9	3,550.1	21.8	28.8	18.29	3,656.1	-1,925.8	3,321.1	3,283.5	88.208		
2,900.0	2,560.4	3,906.8	3,573.5	22.9	29.1	18.75	3,650.0	-1,914.0	3,234.3	3,196.1	84.488		
3,000.0	2,640.7	3,940.0	3,602.2	24.1	29.4	19.36	3,642.8	-1,899.1	3,148.0	3,109.0	80.802		
3,100.0	2,720.9	3,978.0	3,635.2	25.2	29.8	20.08	3,634.7	-1,881.8	3,062.0	3,022.3	77.155		
3,200.0	2,801.1	4,026.8	3,677.4	26.3	30.3	21.05	3,624.3	-1,859.7	2,976.1	2,935.7	73.534		
3,300.0	2,881.3	4,069.3	3,714.2	27.4	30.7	21.92	3,615.2	-1,840.5	2,890.5	2,849.2	70.051		
3,400.0	2,961.5	4,110.9	3,750.2	28.6	31.1	22.81	3,606.2	-1,821.8	2,805.2	2,763.1	66.663		
3,500.0	3,041.7	4,148.5	3,782.8	29.7	31.5	23.64	3,598.1	-1,805.0	2,720.2	2,677.3	63.377		
3,600.0	3,121.9	4,183.2	3,813.0	30.8	31.8	24.43	3,590.7	-1,789.5	2,635.8	2,592.0	60.185		
3,700.0	3,202.1	4,223.0	3,847.7	32.0	32.2	25.37	3,582.3	-1,772.0	2,551.8	2,507.1	57.060		
3,800.0	3,282.3	4,253.4	3,874.2	33.1	32.5	26.11	3,575.9	-1,758.6	2,468.4	2,422.7	54.045		
3,900.0	3,362.5	4,288.5	3,905.0	34.2	32.8	26.99	3,568.7	-1,743.2	2,385.6	2,338.9	51.097		
4,000.0	3,442.7	4,317.0	3,929.9	35.4	33.1	27.74	3,562.9	-1,730.7	2,303.5	2,255.7	48.246		
4,100.0	3,522.9	4,359.6	3,967.3	36.5	33.5	28.88	3,554.4	-1,712.1	2,222.1	2,173.2	45.447		
4,200.0	3,603.1	4,395.9	3,999.3	37.7	33.8	29.89	3,547.4	-1,696.4	2,141.5	2,091.4	42.747		
4,300.0	3,683.3	4,433.6	4,032.5	38.8	34.2	30.98	3,540.1	-1,680.2	2,061.8	2,010.5	40.131		
4,400.0	3,763.5	4,472.6	4,067.1	39.9	34.5	32.13	3,532.7	-1,663.7	1,983.1	1,930.3	37.602		
4,500.0	3,843.7	4,513.4	4,103.4	41.1	34.9	33.38	3,524.9	-1,646.7	1,905.3	1,851.1	35.159		
4,600.0	3,923.9	4,558.4	4,143.5	42.2	35.3	34.81	3,516.5	-1,628.1	1,828.6	1,772.9	32.801		
4,700.0	4,004.1	4,660.2	4,234.2	43.4	36.2	38.25	3,496.3	-1,586.6	1,752.9	1,695.4	30.468		
4,800.0	4,084.3	4,739.7	4,304.8	44.5	36.9	41.11	3,477.4	-1,555.4	1,676.1	1,616.7	28.233		
4,900.0	4,164.5	4,788.0	4,347.7	45.6	37.4	42.95	3,465.5	-1,536.7	1,600.5	1,539.2	26.109		
5,000.0	4,244.7	4,826.7	4,382.2	46.8	37.7	44.48	3,456.0	-1,521.9	1,526.3	1,462.9	24.090		
5,100.0	4,324.9	4,866.6	4,417.9	47.9	38.1	46.11	3,446.4	-1,507.0	1,454.0	1,388.4	22.171		

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



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Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	KLXDirectional-AD
Reference Design:	Design #2	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 110-MWD *DNU*												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	4,405.1	4,904.0	4,451.5	49.1	38.4	47.68	3,437.5	-1,493.2	1,383.7	1,315.8	20.358		
5,300.0	4,485.3	4,940.5	4,484.5	50.2	38.7	49.26	3,429.1	-1,479.9	1,316.0	1,245.5	18.658		
5,400.0	4,565.5	4,977.0	4,517.6	51.4	39.0	50.89	3,421.0	-1,466.8	1,251.2	1,177.9	17.073		
5,500.0	4,645.7	5,009.2	4,546.9	52.5	39.2	52.36	3,414.2	-1,455.4	1,189.8	1,113.6	15.615		
5,600.0	4,725.9	5,042.2	4,577.1	53.6	39.5	53.71	3,407.8	-1,443.9	1,132.5	1,053.2	14.290		
5,700.0	4,807.8	5,080.8	4,612.8	54.7	39.8	54.27	3,401.0	-1,430.7	1,081.1	998.7	13.119		
5,800.0	4,892.0	5,133.7	4,661.9	55.8	40.2	55.60	3,392.4	-1,413.1	1,036.5	950.9	12.108		
5,900.0	4,978.5	5,188.5	4,713.1	56.7	40.5	57.12	3,383.9	-1,395.5	998.9	910.2	11.263		
6,000.0	5,067.2	5,245.2	4,766.8	57.5	40.9	58.77	3,376.4	-1,378.7	968.6	877.0	10.583		
6,100.0	5,157.7	5,313.9	4,832.4	58.3	41.2	60.89	3,368.7	-1,359.9	945.3	851.2	10.045		
6,200.0	5,250.0	5,391.7	4,907.1	59.0	41.6	63.35	3,360.8	-1,339.6	928.2	831.7	9.627		
6,300.0	5,343.9	5,476.8	4,989.2	59.6	42.0	65.98	3,352.8	-1,319.0	916.3	817.9	9.310		
6,400.0	5,439.3	5,565.1	5,075.0	60.1	42.4	68.58	3,345.4	-1,299.2	909.0	808.9	9.082		
6,500.0	5,535.8	5,659.0	5,167.0	60.5	42.7	71.04	3,339.2	-1,281.2	905.4	804.0	8.927		
6,580.9	5,614.7	5,736.4	5,243.1	60.8	43.0	72.85	3,334.9	-1,268.0	904.5	802.3	8.844		
6,600.0	5,633.4	5,754.5	5,260.9	60.9	43.0	73.25	3,334.0	-1,265.1	904.6	802.1	8.829		
6,700.0	5,731.8	5,856.2	5,361.4	61.2	43.3	75.28	3,329.5	-1,249.6	906.1	802.8	8.774		
6,800.0	5,831.0	6,005.2	5,509.5	61.4	43.6	77.37	3,324.5	-1,235.4	907.0	803.2	8.736		
6,900.0	5,930.6	6,121.0	5,625.1	61.6	43.7	78.39	3,319.1	-1,230.7	904.5	800.4	8.689		
7,000.0	6,030.4	6,217.5	5,721.4	61.6	43.8	78.94	3,314.8	-1,227.6	902.5	798.2	8.651		
7,100.0	6,130.4	6,316.9	5,820.7	61.7	43.9	83.89	3,310.5	-1,224.4	901.5	797.0	8.630		
7,200.0	6,230.4	6,412.7	5,916.4	61.7	44.0	44.22	3,306.6	-1,221.0	901.0	796.4	8.613		
7,300.0	6,330.4	6,510.3	6,013.8	61.7	44.1	44.52	3,303.0	-1,217.8	900.7	795.9	8.599		
7,304.4	6,334.9	6,514.2	6,017.7	61.7	44.1	44.53	3,302.9	-1,217.7	900.7	795.9	8.598		
7,400.0	6,430.4	6,602.8	6,106.4	61.7	44.1	44.60	3,302.6	-1,216.6	901.2	796.4	8.593		
7,500.0	6,530.4	6,709.0	6,212.5	61.7	44.2	44.60	3,302.8	-1,216.3	901.6	796.6	8.592		
7,600.0	6,630.4	6,809.4	6,312.9	61.7	44.2	44.61	3,302.8	-1,216.1	901.6	796.7	8.588		
7,700.0	6,730.4	6,910.6	6,414.1	61.8	44.2	44.60	3,302.8	-1,216.2	901.6	796.6	8.586		
7,800.0	6,830.4	7,011.8	6,515.4	61.8	44.2	44.55	3,303.3	-1,216.9	901.5	796.5	8.585		
7,900.0	6,930.4	7,112.3	6,615.8	61.8	44.2	44.51	3,303.6	-1,217.5	901.2	796.2	8.583		
8,000.0	7,030.4	7,210.2	6,713.7	61.8	44.2	44.46	3,304.0	-1,218.2	901.1	796.0	8.579		
8,100.0	7,130.4	7,311.8	6,815.3	61.8	44.2	44.43	3,304.3	-1,218.6	901.0	796.0	8.579		
8,200.0	7,230.4	7,415.1	6,918.6	61.8	44.2	44.39	3,304.4	-1,219.3	900.6	795.6	8.577		
8,300.0	7,330.4	7,514.8	7,018.3	61.9	44.2	44.37	3,304.3	-1,220.0	900.0	795.1	8.573		
8,400.0	7,430.4	7,617.9	7,121.4	61.9	44.2	44.33	3,304.2	-1,220.9	899.3	794.4	8.569		
8,500.0	7,530.4	7,717.5	7,221.0	61.9	44.2	44.23	3,304.6	-1,222.6	898.5	793.5	8.562		
8,600.0	7,630.4	7,816.5	7,320.0	61.9	44.2	44.11	3,305.4	-1,224.6	897.7	792.8	8.555		
8,700.0	7,730.4	7,916.2	7,419.7	61.9	44.2	43.98	3,306.3	-1,226.5	897.0	792.1	8.549		
8,800.0	7,830.4	8,015.7	7,519.2	61.9	44.1	43.84	3,307.3	-1,228.5	896.3	791.4	8.544		
8,828.6	7,859.0	8,044.3	7,547.7	61.9	44.1	43.81	3,307.5	-1,229.0	896.1	791.2	8.543	CC, ES, SF	

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 0993-20-11E - Slot A1
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 0993-20-11E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	KLXDirectional-AD
Reference Design:	Design #2	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 110-MWD *DNU*												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	
700.0	696.1	2,924.7	2,672.9	6.9	21.5	-8.47	3,789.7	-2,300.9	4,944.6	4,919.7	199.263		
800.0	793.3	2,981.5	2,722.4	7.6	22.1	-5.34	3,773.4	-2,278.2	4,878.9	4,853.2	189.757		
900.0	889.4	3,041.9	2,775.1	8.3	22.6	-2.90	3,756.2	-2,254.0	4,810.4	4,783.8	180.887		
1,000.0	984.2	3,094.0	2,820.5	8.9	23.1	-0.89	3,741.6	-2,232.2	4,738.9	4,711.5	172.945		
1,100.0	1,077.6	3,141.8	2,862.2	9.6	23.6	0.87	3,728.3	-2,214.0	4,664.7	4,636.6	165.654		
1,200.0	1,169.4	3,188.0	2,902.7	10.2	24.0	2.48	3,715.6	-2,195.7	4,588.2	4,559.3	158.871		
1,300.0	1,259.4	3,402.4	3,089.4	10.8	26.0	4.89	3,653.2	-2,110.9	4,508.3	4,478.0	148.736		
1,400.0	1,347.4	3,438.6	3,120.6	11.4	26.4	6.55	3,642.2	-2,096.3	4,424.8	4,393.9	143.084		
1,500.0	1,433.3	3,471.0	3,148.7	11.9	26.7	8.27	3,632.4	-2,083.3	4,339.4	4,307.9	137.773		
1,600.0	1,516.9	3,503.2	3,176.6	12.5	27.0	10.16	3,622.8	-2,070.5	4,252.0	4,220.0	132.738		
1,700.0	1,598.0	3,531.7	3,201.4	12.9	27.3	11.97	3,614.3	-2,059.2	4,162.9	4,130.4	128.082		
1,800.0	1,678.2	3,565.0	3,230.3	13.3	27.6	12.32	3,604.5	-2,046.0	4,073.3	4,040.4	123.696		
1,900.0	1,758.4	3,590.0	3,252.2	13.6	27.8	12.59	3,597.2	-2,036.1	3,983.9	3,950.5	119.487		
2,000.0	1,838.6	3,621.3	3,279.5	14.1	28.1	12.94	3,588.2	-2,023.9	3,894.6	3,860.8	115.266		
2,100.0	1,918.8	3,659.0	3,312.4	14.6	28.5	13.37	3,577.3	-2,009.2	3,805.6	3,771.3	111.049		
2,200.0	1,999.0	3,682.0	3,332.6	15.4	28.7	13.65	3,570.7	-2,000.2	3,716.7	3,682.0	107.053		
2,300.0	2,079.2	3,710.8	3,357.9	16.3	28.9	13.99	3,562.6	-1,989.1	3,628.1	3,592.9	103.068		
2,400.0	2,159.4	3,753.0	3,395.0	17.4	29.3	14.52	3,550.8	-1,972.9	3,539.8	3,504.0	99.049		
2,500.0	2,239.6	3,781.0	3,419.6	18.5	29.6	14.89	3,543.1	-1,962.2	3,451.6	3,415.3	95.212		
2,600.0	2,319.8	3,830.1	3,462.9	19.6	30.0	15.56	3,529.6	-1,943.0	3,363.5	3,326.6	91.303		
2,700.0	2,400.0	3,914.8	3,536.7	20.7	30.8	16.83	3,506.1	-1,908.9	3,274.9	3,237.3	87.229		
2,800.0	2,480.2	3,988.9	3,601.0	21.8	31.5	18.05	3,485.1	-1,878.5	3,186.0	3,147.8	83.338		
2,900.0	2,560.4	4,025.5	3,632.6	22.9	31.9	18.69	3,474.7	-1,863.5	3,097.3	3,058.5	79.745		
3,000.0	2,640.7	4,060.5	3,663.0	24.1	32.2	19.33	3,464.8	-1,849.2	3,008.8	2,969.4	76.241		
3,100.0	2,720.9	4,095.1	3,693.0	25.2	32.6	19.99	3,455.0	-1,835.0	2,920.6	2,880.5	72.814		
3,200.0	2,801.1	4,131.0	3,724.2	26.3	32.9	20.69	3,445.0	-1,820.4	2,832.6	2,791.8	69.455		
3,300.0	2,881.3	4,162.3	3,751.4	27.4	33.2	21.33	3,436.3	-1,807.6	2,744.9	2,703.4	66.179		
3,400.0	2,961.5	4,194.9	3,779.9	28.6	33.5	22.03	3,427.4	-1,794.3	2,657.6	2,615.4	62.969		
3,500.0	3,041.7	4,225.0	3,806.2	29.7	33.8	22.69	3,419.2	-1,782.1	2,570.7	2,527.7	59.833		
3,600.0	3,121.9	4,254.6	3,832.1	30.8	34.1	23.37	3,411.3	-1,770.2	2,484.2	2,440.4	56.766		
3,700.0	3,202.1	4,282.5	3,856.6	32.0	34.3	24.03	3,404.0	-1,759.1	2,398.3	2,353.7	53.772		
3,800.0	3,282.3	4,319.0	3,888.8	33.1	34.7	24.91	3,394.6	-1,744.7	2,312.9	2,267.4	50.844		
3,900.0	3,362.5	4,375.1	3,938.3	34.2	35.2	26.35	3,380.2	-1,722.6	2,228.0	2,181.5	47.976		
4,000.0	3,442.7	4,473.0	4,024.0	35.4	36.1	29.12	3,353.6	-1,683.5	2,142.7	2,095.2	45.159		
4,100.0	3,522.9	4,531.7	4,074.9	36.5	36.7	30.96	3,336.6	-1,659.7	2,056.8	2,008.3	42.409		
4,200.0	3,603.1	4,566.8	4,105.4	37.7	37.0	32.13	3,326.5	-1,645.3	1,971.5	1,921.8	39.725		
4,300.0	3,683.3	4,602.8	4,136.6	38.8	37.4	33.38	3,316.2	-1,630.8	1,886.8	1,836.0	37.113		
4,400.0	3,763.5	4,646.7	4,174.7	39.9	37.8	34.98	3,303.6	-1,613.0	1,802.8	1,750.6	34.578		
4,500.0	3,843.7	4,690.6	4,212.9	41.1	38.2	36.67	3,290.9	-1,595.4	1,719.4	1,665.8	32.114		
4,600.0	3,923.9	4,723.4	4,241.5	42.2	38.5	37.99	3,281.5	-1,582.3	1,636.8	1,581.8	29.722		
4,700.0	4,004.1	4,755.8	4,269.8	43.4	38.8	39.34	3,272.3	-1,569.7	1,555.5	1,498.8	27.415		
4,800.0	4,084.3	4,790.0	4,299.9	44.5	39.1	40.82	3,262.7	-1,556.6	1,475.5	1,416.9	25.196		
4,900.0	4,164.5	4,825.8	4,331.6	45.6	39.4	42.44	3,252.8	-1,543.0	1,396.9	1,336.4	23.073		
5,000.0	4,244.7	4,863.3	4,364.8	46.8	39.8	44.20	3,242.6	-1,529.0	1,320.0	1,257.3	21.045		
5,100.0	4,324.9	4,902.9	4,400.0	47.9	40.1	46.14	3,232.0	-1,514.3	1,245.0	1,179.9	19.117		
5,200.0	4,405.1	4,944.6	4,437.1	49.1	40.5	48.29	3,221.0	-1,498.9	1,172.2	1,104.4	17.295		
5,300.0	4,485.3	4,986.1	4,474.1	50.2	40.9	50.53	3,210.1	-1,483.6	1,101.8	1,031.1	15.584		
5,400.0	4,565.5	5,025.9	4,509.9	51.4	41.2	52.76	3,199.9	-1,469.2	1,034.6	960.6	13.998		
5,500.0	4,645.7	5,073.0	4,552.4	52.5	41.6	55.50	3,188.1	-1,452.8	971.0	893.5	12.544		
5,600.0	4,725.9	5,109.1	4,585.1	53.6	41.9	57.46	3,179.3	-1,440.6	911.7	830.5	11.236		
5,700.0	4,807.8	5,154.5	4,626.8	54.7	42.2	58.84	3,168.7	-1,425.9	858.7	773.6	10.098		
5,800.0	4,892.0	5,205.8	4,674.2	55.8	42.6	60.73	3,157.3	-1,409.9	813.3	724.4	9.145		

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 0993-20-11E - Slot A1
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 0993-20-11E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	KLXDirectional-AD
Reference Design:	Design #2	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 110-MWD *DNU*												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	
5,900.0	4,978.5	5,263.6	4,728.1	56.7	43.0	63.11	3,145.2	-1,392.9	776.0	683.3	8.375		
6,000.0	5,067.2	5,329.9	4,790.4	57.5	43.4	66.07	3,132.0	-1,374.4	746.6	650.6	7.773		
6,100.0	5,157.7	5,396.8	4,853.6	58.3	43.8	69.14	3,119.3	-1,356.6	725.2	626.2	7.327		
6,200.0	5,250.0	5,468.0	4,921.4	59.0	44.2	72.41	3,107.4	-1,338.7	711.6	610.3	7.024		
6,300.0	5,343.9	5,549.1	4,999.5	59.6	44.6	76.03	3,095.5	-1,320.1	704.6	601.5	6.836		
6,390.4	5,430.0	5,628.0	5,075.9	60.0	44.9	79.33	3,085.1	-1,303.5	702.8	598.6	6.743	CC	
6,400.0	5,439.3	5,636.6	5,084.3	60.1	44.9	79.67	3,084.0	-1,301.8	702.8	598.5	6.736	ES	
6,500.0	5,535.8	5,726.9	5,172.3	60.5	45.3	83.11	3,073.6	-1,284.6	705.1	599.9	6.704	SF	
6,600.0	5,633.4	5,818.7	5,262.2	60.9	45.6	86.22	3,064.3	-1,268.3	710.3	604.6	6.722		
6,700.0	5,731.8	5,929.6	5,371.3	61.2	46.0	89.34	3,054.5	-1,251.5	716.7	610.7	6.759		
6,800.0	5,831.0	6,045.8	5,486.7	61.4	46.2	91.68	3,047.3	-1,239.7	721.7	615.4	6.793		
6,900.0	5,930.6	6,153.5	5,594.3	61.6	46.3	92.93	3,044.8	-1,234.1	725.1	618.8	6.816		
7,000.0	6,030.4	6,255.1	5,695.7	61.6	46.4	93.57	3,043.9	-1,230.6	727.9	621.4	6.835		
7,100.0	6,130.4	6,356.0	5,796.6	61.7	46.5	95.39	3,043.5	-1,227.5	730.3	623.7	6.852		
7,200.0	6,230.4	6,459.4	5,900.0	61.7	46.5	98.49	3,043.5	-1,224.9	732.4	625.8	6.866		
7,300.0	6,330.4	6,565.4	6,006.0	61.7	46.6	98.56	3,043.6	-1,223.2	733.9	627.1	6.874		
7,400.0	6,430.4	6,670.1	6,110.7	61.7	46.6	98.59	3,043.6	-1,222.4	734.6	627.7	6.875		
7,500.0	6,530.4	6,770.3	6,210.9	61.7	46.7	98.60	3,043.8	-1,222.1	734.9	628.0	6.873		
7,600.0	6,630.4	6,872.6	6,313.1	61.7	46.7	98.57	3,044.2	-1,222.1	735.1	628.2	6.872		
7,700.0	6,730.4	6,977.6	6,418.2	61.8	46.7	98.53	3,044.5	-1,222.6	734.8	627.9	6.872		
7,800.0	6,830.4	7,078.9	6,519.4	61.8	46.7	98.52	3,044.1	-1,223.3	734.0	627.1	6.867		
7,900.0	6,930.4	7,178.2	6,618.7	61.8	46.7	98.52	3,043.7	-1,224.0	733.3	626.4	6.862		
8,000.0	7,030.4	7,279.4	6,719.9	61.8	46.7	98.49	3,043.7	-1,224.9	732.5	625.7	6.858		
8,100.0	7,130.4	7,379.5	6,820.0	61.8	46.7	98.43	3,043.8	-1,226.1	731.5	624.7	6.850		
8,200.0	7,230.4	7,480.5	6,921.1	61.8	46.6	98.38	3,043.9	-1,227.2	730.7	623.9	6.845		
8,300.0	7,330.4	7,584.2	7,024.7	61.9	46.6	98.28	3,044.3	-1,229.0	729.4	622.7	6.836		
8,400.0	7,430.4	7,688.1	7,128.6	61.9	46.6	98.13	3,044.9	-1,231.5	727.6	620.9	6.822		
8,500.0	7,530.4	7,792.0	7,232.4	61.9	46.6	97.96	3,045.5	-1,234.8	725.2	618.6	6.804		
8,600.0	7,630.4	7,894.1	7,334.5	61.9	46.5	97.77	3,046.0	-1,238.5	722.4	615.9	6.781		
8,700.0	7,730.4	7,991.7	7,432.0	61.9	46.5	97.60	3,046.3	-1,241.9	719.7	613.1	6.755		
8,800.0	7,830.4	8,092.8	7,533.1	61.9	46.5	97.43	3,046.7	-1,245.3	717.0	610.5	6.732		
8,828.6	7,859.0	8,113.0	7,553.2	61.9	46.5	97.39	3,046.8	-1,246.0	716.3	609.7	6.721		

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 0993-20-11E - Slot A1
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 0993-20-11E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	KLXDirectional-AD
Reference Design:	Design #2	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	-136.72	-7.3	-6.8	10.0				
100.0	100.0	100.0	100.0	0.8	0.8	-136.72	-7.3	-6.8	10.0	8.4	6.307		
200.0	200.0	200.0	200.0	1.4	1.4	-136.72	-7.3	-6.8	10.0	7.2	3.532	CC	
300.0	300.0	300.1	300.0	2.5	2.5	-115.60	-5.5	-8.2	10.6	6.7	2.721	ES	
400.0	399.7	400.1	399.8	4.0	4.0	-112.90	-0.4	-12.2	12.6	7.7	2.584		
500.0	499.1	500.1	499.2	5.1	5.1	-109.86	8.3	-18.8	15.8	10.2	2.842		
600.0	598.0	600.0	598.0	6.1	6.0	-107.22	20.3	-28.1	20.4	14.2	3.297		
700.0	696.1	699.8	695.9	6.9	6.9	-101.34	35.8	-39.9	25.5	18.7	3.754		
800.0	793.3	799.7	792.8	7.6	7.6	-97.35	54.6	-54.4	30.4	23.0	4.082		
900.0	889.4	899.5	888.7	8.3	8.4	-94.43	76.7	-71.4	35.1	26.9	4.282		
1,000.0	984.2	999.2	983.1	8.9	9.0	-92.20	102.1	-90.9	39.5	30.4	4.364		
1,100.0	1,077.6	1,099.0	1,076.1	9.6	9.7	-90.41	130.7	-113.0	43.6	33.6	4.346		
1,200.0	1,169.4	1,198.7	1,167.4	10.2	10.3	-88.93	162.5	-137.4	47.5	36.3	4.247		
1,300.0	1,259.4	1,298.5	1,256.9	10.8	10.9	-87.67	197.4	-164.3	51.1	38.6	4.089		
1,400.0	1,347.4	1,398.1	1,344.3	11.4	11.5	-86.57	235.4	-193.4	54.4	40.4	3.892		
1,500.0	1,433.3	1,497.8	1,429.6	11.9	12.0	-85.60	276.3	-224.9	57.4	41.8	3.673		
1,600.0	1,516.9	1,597.6	1,512.7	12.5	12.4	-84.94	320.0	-258.5	60.1	42.7	3.449		
1,700.0	1,598.0	1,697.5	1,595.4	12.9	12.7	-87.44	364.5	-292.7	62.2	42.8	3.207		
1,800.0	1,678.2	1,797.4	1,678.1	13.3	13.1	-91.54	408.9	-326.8	64.2	42.7	2.984		
1,900.0	1,758.4	1,897.2	1,760.8	13.6	13.4	-95.36	453.3	-361.0	66.6	42.9	2.809		
2,000.0	1,838.6	1,997.1	1,843.5	14.1	13.8	-98.90	497.7	-395.1	69.2	43.3	2.672		
2,100.0	1,918.8	2,097.0	1,926.2	14.6	14.1	-102.18	542.1	-429.2	72.1	44.0	2.567		
2,200.0	1,999.0	2,196.9	2,008.9	15.4	14.8	-105.19	586.5	-463.4	75.2	45.0	2.489	Level 1	
2,300.0	2,079.2	2,296.8	2,091.6	16.3	15.8	-107.96	630.9	-497.5	78.5	46.2	2.430	Level 1	
2,400.0	2,159.4	2,396.6	2,174.2	17.4	16.9	-110.50	675.3	-531.7	82.0	47.6	2.387	Level 1	
2,500.0	2,239.6	2,496.5	2,256.9	18.5	17.9	-112.83	719.7	-565.8	85.6	49.3	2.356	Level 1	
2,600.0	2,319.8	2,596.4	2,339.6	19.6	19.0	-114.97	764.1	-600.0	89.3	51.1	2.335	Level 1	
2,700.0	2,400.0	2,696.3	2,422.3	20.7	20.0	-116.93	808.5	-634.1	93.2	53.0	2.321	Level 1	
2,800.0	2,480.2	2,796.1	2,505.0	21.8	21.1	-118.74	852.9	-668.2	97.2	55.2	2.313	Level 1	
2,900.0	2,560.4	2,896.0	2,587.7	22.9	22.1	-120.41	897.3	-702.4	101.2	57.4	2.310	Level 1, SF	
3,000.0	2,640.7	2,995.9	2,670.4	24.1	23.2	-121.94	941.7	-736.5	105.3	59.8	2.311	Level 1	
3,100.0	2,720.9	3,095.8	2,753.1	25.2	24.2	-123.36	986.2	-770.7	109.5	62.2	2.314	Level 1	
3,200.0	2,801.1	3,195.6	2,835.8	26.3	25.3	-124.67	1,030.6	-804.8	113.8	64.7	2.320	Level 1	
3,300.0	2,881.3	3,295.5	2,918.5	27.4	26.4	-125.89	1,075.0	-839.0	118.1	67.4	2.328	Level 1	
3,400.0	2,961.5	3,395.4	3,001.2	28.6	27.4	-127.02	1,119.4	-873.1	122.5	70.1	2.337	Level 1	
3,500.0	3,041.7	3,495.3	3,083.8	29.7	28.5	-128.07	1,163.8	-907.2	126.9	72.8	2.347	Level 1	
3,600.0	3,121.9	3,595.1	3,166.5	30.8	29.5	-129.06	1,208.2	-941.4	131.3	75.6	2.358	Level 1	
3,700.0	3,202.1	3,695.0	3,249.2	32.0	30.6	-129.97	1,252.6	-975.5	135.8	78.5	2.369	Level 1	
3,800.0	3,282.3	3,794.9	3,331.9	33.1	31.7	-130.83	1,297.0	-1,009.7	140.3	81.4	2.381	Level 1	
3,900.0	3,362.5	3,894.8	3,414.6	34.2	32.7	-131.64	1,341.4	-1,043.8	144.8	84.3	2.393	Level 1	
4,000.0	3,442.7	3,994.7	3,497.3	35.4	33.8	-132.40	1,385.8	-1,077.9	149.4	87.3	2.405	Level 1	
4,100.0	3,522.9	4,094.5	3,580.0	36.5	34.9	-133.11	1,430.2	-1,112.1	154.0	90.3	2.418	Level 1	
4,200.0	3,603.1	4,194.4	3,662.7	37.7	35.9	-133.78	1,474.6	-1,146.2	158.6	93.4	2.430	Level 1	
4,300.0	3,683.3	4,294.3	3,745.4	38.8	37.0	-134.41	1,519.0	-1,180.4	163.3	96.4	2.443	Level 1	
4,400.0	3,763.5	4,394.2	3,828.1	39.9	38.0	-135.01	1,563.4	-1,214.5	167.9	99.5	2.455	Level 1	
4,500.0	3,843.7	4,494.0	3,910.8	41.1	39.1	-135.57	1,607.8	-1,248.7	172.6	102.6	2.467	Level 1	
4,600.0	3,923.9	4,593.9	3,993.4	42.2	40.2	-136.11	1,652.2	-1,282.8	177.3	105.8	2.479	Level 1	
4,700.0	4,004.1	4,693.8	4,076.1	43.4	41.2	-136.61	1,696.7	-1,316.9	182.0	108.9	2.491	Level 1	
4,800.0	4,084.3	4,793.7	4,158.8	44.5	42.3	-137.09	1,741.1	-1,351.1	186.7	112.1	2.503		
4,900.0	4,164.5	4,893.5	4,241.5	45.6	43.4	-137.55	1,785.5	-1,385.2	191.4	115.3	2.514		
5,000.0	4,244.7	4,993.4	4,324.2	46.8	44.4	-137.99	1,829.9	-1,419.4	196.2	118.5	2.525		
5,100.0	4,324.9	5,093.3	4,406.9	47.9	45.5	-138.40	1,874.3	-1,453.5	200.9	121.7	2.536		

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 0993-20-11E - Slot A1
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 0993-20-11E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	KLXDirectional-AD
Reference Design:	Design #2	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	4,405.1	5,193.2	4,489.6	49.1	46.6	-138.80	1,918.7	-1,487.7	205.7	124.9	2.547		
5,300.0	4,485.3	5,293.1	4,572.3	50.2	47.6	-139.18	1,963.1	-1,521.8	210.5	128.2	2.558		
5,400.0	4,565.5	5,392.9	4,655.0	51.4	48.7	-139.54	2,007.5	-1,555.9	215.3	131.4	2.568		
5,500.0	4,645.7	5,492.8	4,737.7	52.5	49.8	-139.88	2,051.9	-1,590.1	220.0	134.7	2.578		
5,600.0	4,725.9	5,590.5	4,818.6	53.6	50.8	-140.25	2,095.2	-1,623.4	225.0	138.1	2.591		
5,700.0	4,807.8	5,683.4	4,897.3	54.7	51.7	-140.73	2,134.4	-1,653.6	230.1	141.9	2.609		
5,800.0	4,892.0	5,776.1	4,977.7	55.8	52.6	-141.16	2,171.1	-1,681.7	235.0	145.5	2.626		
5,900.0	4,978.5	5,868.7	5,059.7	56.7	53.4	-141.55	2,205.0	-1,707.8	239.6	148.9	2.641		
6,000.0	5,067.2	5,961.2	5,143.4	57.5	54.1	-141.89	2,236.3	-1,731.9	243.8	152.0	2.657		
6,100.0	5,157.7	6,053.5	5,228.4	58.3	54.8	-142.21	2,264.8	-1,753.8	247.6	155.0	2.672		
6,200.0	5,250.0	6,145.7	5,314.7	59.0	55.3	-142.48	2,290.6	-1,773.6	251.2	157.7	2.688		
6,300.0	5,343.9	6,237.8	5,402.1	59.6	55.8	-142.73	2,313.5	-1,791.3	254.3	160.2	2.702		
6,400.0	5,439.3	6,329.8	5,490.5	60.1	56.3	-142.94	2,333.7	-1,806.7	257.1	162.5	2.717		
6,500.0	5,535.8	6,421.7	5,579.8	60.5	56.6	-143.13	2,351.0	-1,820.0	259.6	164.5	2.731		
6,600.0	5,633.4	6,513.6	5,669.8	60.9	57.0	-143.29	2,365.4	-1,831.1	261.6	166.3	2.745		
6,700.0	5,731.8	6,605.4	5,760.4	61.2	57.2	-143.42	2,377.0	-1,840.0	263.3	167.9	2.759		
6,800.0	5,831.0	6,700.0	5,854.4	61.4	57.4	-143.52	2,385.9	-1,846.9	264.7	169.0	2.766		
6,900.0	5,930.6	6,788.8	5,942.9	61.6	57.5	-143.60	2,391.4	-1,851.1	265.6	170.3	2.787		
7,000.0	6,030.4	6,880.5	6,034.5	61.6	57.6	-143.65	2,394.3	-1,853.3	266.1	171.1	2.802		
7,100.0	6,130.4	6,976.4	6,130.4	61.7	57.6	-179.08	2,394.6	-1,853.6	266.3	171.5	2.810		
7,200.0	6,230.4	7,076.4	6,230.4	61.7	57.6	-179.08	2,394.6	-1,853.6	266.3	171.5	2.809		
7,300.0	6,330.4	7,176.4	6,330.4	61.7	57.6	-179.08	2,394.6	-1,853.6	266.3	171.4	2.807		
7,400.0	6,430.4	7,276.4	6,430.4	61.7	57.6	-179.08	2,394.6	-1,853.6	266.3	171.4	2.806		
7,500.0	6,530.4	7,376.4	6,530.4	61.7	57.7	-179.08	2,394.6	-1,853.6	266.3	171.3	2.804		
7,600.0	6,630.4	7,476.4	6,630.4	61.7	57.7	-179.08	2,394.6	-1,853.6	266.3	171.3	2.803		
7,700.0	6,730.4	7,576.4	6,730.4	61.8	57.7	-179.08	2,394.6	-1,853.6	266.3	171.2	2.801		
7,800.0	6,830.4	7,676.4	6,830.4	61.8	57.7	-179.08	2,394.6	-1,853.6	266.3	171.2	2.800		
7,900.0	6,930.4	7,776.4	6,930.4	61.8	57.7	-179.08	2,394.6	-1,853.6	266.3	171.1	2.798		
8,000.0	7,030.4	7,876.4	7,030.4	61.8	57.8	-179.08	2,394.6	-1,853.6	266.3	171.1	2.797		
8,100.0	7,130.4	7,976.4	7,130.4	61.8	57.8	-179.08	2,394.6	-1,853.6	266.3	171.0	2.795		
8,200.0	7,230.4	8,076.4	7,230.4	61.8	57.8	-179.08	2,394.6	-1,853.6	266.3	171.0	2.794		
8,300.0	7,330.4	8,176.4	7,330.4	61.9	57.8	-179.08	2,394.6	-1,853.6	266.3	170.9	2.792		
8,400.0	7,430.4	8,276.4	7,430.4	61.9	57.8	-179.08	2,394.6	-1,853.6	266.3	170.9	2.791		
8,500.0	7,530.4	8,376.4	7,530.4	61.9	57.8	-179.08	2,394.6	-1,853.6	266.3	170.8	2.789		
8,600.0	7,630.4	8,476.4	7,630.4	61.9	57.9	-179.08	2,394.6	-1,853.6	266.3	170.8	2.788		
8,700.0	7,730.4	8,576.4	7,730.4	61.9	57.9	-179.08	2,394.6	-1,853.6	266.3	170.7	2.786		
8,800.0	7,830.4	8,676.4	7,830.4	61.9	57.9	-179.08	2,394.6	-1,853.6	266.3	170.6	2.784		
8,828.6	7,859.0	8,705.0	7,859.0	61.9	57.9	-179.08	2,394.6	-1,853.6	266.3	170.6	2.784		

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 0993-20-11E - Slot A1
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 0993-20-11E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	KLXDirectional-AD
Reference Design:	Design #2	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	178.28	-14.1	0.4	14.1				
100.0	100.0	100.0	100.0	0.8	0.8	178.28	-14.1	0.4	14.1	12.6	8.926		
200.0	200.0	200.0	200.0	1.4	1.4	178.28	-14.1	0.4	14.1	11.3	4.998	CC, ES	
300.0	300.0	300.1	300.1	2.5	1.8	-160.54	-13.8	-0.6	15.9	11.7	3.858		
400.0	399.7	400.2	400.0	4.0	3.3	-152.68	-12.2	-5.6	20.5	14.7	3.542	SF	
500.0	499.1	500.4	499.8	5.1	3.6	-144.15	-8.7	-14.3	28.1	21.5	4.205		
600.0	598.0	600.8	599.3	6.1	4.4	-137.97	-1.7	-25.7	37.1	29.3	4.762		
700.0	696.1	701.2	698.2	6.9	5.4	-129.80	8.9	-39.5	46.5	37.9	5.401		
800.0	793.3	801.8	796.4	7.6	6.3	-124.45	23.0	-55.9	55.6	46.3	5.979		
900.0	889.4	902.6	893.8	8.3	7.1	-120.70	40.7	-74.8	64.5	54.4	6.413		
1,000.0	984.2	1,003.5	990.1	8.9	7.8	-117.96	61.9	-96.1	72.8	62.0	6.703		
1,100.0	1,077.6	1,104.5	1,085.1	9.6	8.6	-115.88	86.7	-119.8	80.8	69.0	6.856		
1,200.0	1,169.4	1,205.7	1,178.7	10.2	9.2	-114.27	114.9	-145.9	88.3	75.4	6.883		
1,300.0	1,259.4	1,307.0	1,270.6	10.8	9.9	-113.00	146.5	-174.4	95.2	81.2	6.801		
1,400.0	1,347.4	1,408.4	1,360.7	11.4	10.5	-111.99	181.5	-205.2	101.7	86.3	6.630		
1,500.0	1,433.3	1,510.0	1,448.7	11.9	11.1	-111.18	219.9	-238.2	107.6	90.8	6.396		
1,600.0	1,516.9	1,610.4	1,534.1	12.5	11.5	-110.98	260.3	-272.5	113.3	94.9	6.140		
1,700.0	1,598.0	1,710.1	1,618.6	12.9	11.8	-112.73	300.6	-306.7	120.2	99.8	5.907		
1,800.0	1,678.2	1,809.6	1,703.0	13.3	12.2	-115.37	340.9	-340.8	127.7	105.4	5.732		
1,900.0	1,758.4	1,909.2	1,787.4	13.6	12.6	-117.71	381.1	-374.9	135.4	111.3	5.605		
2,000.0	1,838.6	2,008.7	1,871.8	14.1	13.0	-119.80	421.4	-409.1	143.4	117.4	5.511		
2,100.0	1,918.8	2,108.3	1,956.2	14.6	13.5	-121.67	461.6	-443.2	151.5	123.7	5.445		
2,200.0	1,999.0	2,207.8	2,040.6	15.4	14.3	-123.34	501.9	-477.3	159.8	130.2	5.398		
2,300.0	2,079.2	2,307.4	2,125.0	16.3	15.2	-124.85	542.1	-511.5	168.1	136.8	5.364		
2,400.0	2,159.4	2,407.0	2,209.4	17.4	16.1	-126.22	582.4	-545.6	176.6	143.6	5.341		
2,500.0	2,239.6	2,506.5	2,293.9	18.5	17.1	-127.46	622.6	-579.8	185.2	150.5	5.326		
2,600.0	2,319.8	2,606.1	2,378.3	19.6	18.1	-128.59	662.9	-613.9	193.9	157.4	5.317		
2,700.0	2,400.0	2,705.6	2,462.7	20.7	19.1	-129.62	703.1	-648.0	202.6	164.5	5.314		
2,800.0	2,480.2	2,805.2	2,547.1	21.8	20.0	-130.57	743.4	-682.2	211.4	171.6	5.314		
2,900.0	2,560.4	2,904.7	2,631.5	22.9	21.0	-131.44	783.6	-716.3	220.3	178.8	5.317		
3,000.0	2,640.7	3,004.3	2,715.9	24.1	22.0	-132.25	823.9	-750.4	229.2	186.1	5.322		
3,100.0	2,720.9	3,103.8	2,800.3	25.2	23.0	-132.99	864.1	-784.6	238.1	193.4	5.328		
3,200.0	2,801.1	3,203.4	2,884.8	26.3	24.0	-133.68	904.4	-818.7	247.1	200.8	5.336		
3,300.0	2,881.3	3,302.9	2,969.2	27.4	25.0	-134.32	944.6	-852.8	256.1	208.2	5.345		
3,400.0	2,961.5	3,402.5	3,053.6	28.6	26.0	-134.92	984.9	-887.0	265.1	215.6	5.354		
3,500.0	3,041.7	3,502.1	3,138.0	29.7	27.0	-135.48	1,025.1	-921.1	274.2	223.1	5.364		
3,600.0	3,121.9	3,601.6	3,222.4	30.8	27.9	-136.00	1,065.4	-955.3	283.2	230.5	5.375		
3,700.0	3,202.1	3,701.2	3,306.8	32.0	28.9	-136.49	1,105.6	-989.4	292.3	238.1	5.385		
3,800.0	3,282.3	3,800.7	3,391.2	33.1	29.9	-136.95	1,145.9	-1,023.5	301.5	245.6	5.396		
3,900.0	3,362.5	3,900.3	3,475.6	34.2	30.9	-137.39	1,186.1	-1,057.7	310.6	253.2	5.406		
4,000.0	3,442.7	3,999.8	3,560.1	35.4	31.9	-137.80	1,226.4	-1,091.8	319.8	260.7	5.417		
4,100.0	3,522.9	4,099.4	3,644.5	36.5	32.9	-138.18	1,266.6	-1,125.9	329.0	268.3	5.427		
4,200.0	3,603.1	4,198.9	3,728.9	37.7	33.9	-138.55	1,306.9	-1,160.1	338.1	276.0	5.437		
4,300.0	3,683.3	4,298.5	3,813.3	38.8	34.9	-138.89	1,347.1	-1,194.2	347.4	283.6	5.448		
4,400.0	3,763.5	4,398.0	3,897.7	39.9	35.9	-139.22	1,387.4	-1,228.4	356.6	291.2	5.458		
4,500.0	3,843.7	4,497.6	3,982.1	41.1	36.9	-139.53	1,427.6	-1,262.5	365.8	298.9	5.467		
4,600.0	3,923.9	4,597.1	4,066.5	42.2	37.9	-139.83	1,467.9	-1,296.6	375.0	306.6	5.477		
4,700.0	4,004.1	4,696.7	4,150.9	43.4	38.9	-140.11	1,508.1	-1,330.8	384.3	314.2	5.486		
4,800.0	4,084.3	4,796.3	4,235.4	44.5	39.9	-140.38	1,548.4	-1,364.9	393.5	321.9	5.496		
4,900.0	4,164.5	4,895.8	4,319.8	45.6	40.9	-140.64	1,588.6	-1,399.0	402.8	329.6	5.505		
5,000.0	4,244.7	4,995.4	4,404.2	46.8	41.9	-140.88	1,628.9	-1,433.2	412.1	337.3	5.513		
5,100.0	4,324.9	5,094.9	4,488.6	47.9	42.9	-141.11	1,669.1	-1,467.3	421.3	345.0	5.522		

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 0993-20-11E - Slot A1
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 0993-20-11E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	KLXDirectional-AD
Reference Design:	Design #2	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	4,405.1	5,194.5	4,573.0	49.1	43.9	-141.34	1,709.4	-1,501.5	430.6	352.8	5.530		
5,300.0	4,485.3	5,294.0	4,657.4	50.2	44.9	-141.55	1,749.7	-1,535.6	439.9	360.5	5.539		
5,400.0	4,565.5	5,393.6	4,741.8	51.4	45.9	-141.76	1,789.9	-1,569.7	449.2	368.2	5.546		
5,500.0	4,645.7	5,493.1	4,826.3	52.5	46.9	-141.96	1,830.2	-1,603.9	458.5	376.0	5.554		
5,600.0	4,725.9	5,584.6	4,904.2	53.6	47.8	-142.20	1,866.8	-1,634.9	468.3	384.3	5.576		
5,700.0	4,807.8	5,670.8	4,979.0	54.7	48.6	-142.63	1,899.2	-1,662.4	478.6	393.3	5.612		
5,800.0	4,892.0	5,756.7	5,055.3	55.8	49.4	-143.01	1,929.4	-1,688.1	488.2	401.7	5.644		
5,900.0	4,978.5	5,842.4	5,132.7	56.7	50.0	-143.36	1,957.4	-1,711.8	497.1	409.5	5.674		
6,000.0	5,067.2	5,927.9	5,211.3	57.5	50.6	-143.68	1,983.0	-1,733.5	505.4	416.8	5.704		
6,100.0	5,157.7	6,013.2	5,290.9	58.3	51.2	-143.96	2,006.4	-1,753.3	513.0	423.5	5.733		
6,200.0	5,250.0	6,100.0	5,373.0	59.0	51.7	-144.21	2,027.9	-1,771.5	519.9	429.6	5.758		
6,300.0	5,343.9	6,183.3	5,452.8	59.6	52.1	-144.43	2,046.2	-1,787.1	526.1	435.2	5.788		
6,400.0	5,439.3	6,268.2	5,534.9	60.1	52.5	-144.63	2,062.6	-1,801.0	531.6	440.1	5.815		
6,500.0	5,535.8	6,353.0	5,617.7	60.5	52.8	-144.80	2,076.6	-1,812.9	536.3	444.5	5.841		
6,600.0	5,633.4	6,437.6	5,700.9	60.9	53.0	-144.94	2,088.3	-1,822.8	540.3	448.2	5.867		
6,700.0	5,731.8	6,522.2	5,784.6	61.2	53.3	-145.06	2,097.6	-1,830.7	543.6	451.3	5.891		
6,800.0	5,831.0	6,600.0	5,861.9	61.4	53.4	-145.15	2,104.1	-1,836.2	546.2	454.2	5.934		
6,900.0	5,930.6	6,691.2	5,952.9	61.6	53.5	-145.23	2,109.2	-1,840.5	548.0	455.7	5.940		
7,000.0	6,030.4	6,775.6	6,037.2	61.6	53.6	-145.27	2,111.4	-1,842.4	549.0	457.0	5.967		
7,100.0	6,130.4	6,868.8	6,130.4	61.7	53.6	179.30	2,111.6	-1,842.6	549.3	457.4	5.980		
7,200.0	6,230.4	6,968.8	6,230.4	61.7	53.6	179.30	2,111.6	-1,842.6	549.3	457.4	5.976		
7,300.0	6,330.4	7,068.8	6,330.4	61.7	53.6	179.30	2,111.6	-1,842.6	549.3	457.3	5.973		
7,400.0	6,430.4	7,168.8	6,430.4	61.7	53.7	179.30	2,111.6	-1,842.6	549.3	457.3	5.970		
7,500.0	6,530.4	7,268.8	6,530.4	61.7	53.7	179.30	2,111.6	-1,842.6	549.3	457.2	5.966		
7,600.0	6,630.4	7,368.8	6,630.4	61.7	53.7	179.30	2,111.6	-1,842.6	549.3	457.2	5.963		
7,700.0	6,730.4	7,468.8	6,730.4	61.8	53.7	179.30	2,111.6	-1,842.6	549.3	457.1	5.960		
7,800.0	6,830.4	7,568.8	6,830.4	61.8	53.7	179.30	2,111.6	-1,842.6	549.3	457.1	5.956		
7,900.0	6,930.4	7,668.8	6,930.4	61.8	53.8	179.30	2,111.6	-1,842.6	549.3	457.0	5.953		
8,000.0	7,030.4	7,768.8	7,030.4	61.8	53.8	179.30	2,111.6	-1,842.6	549.3	457.0	5.949		
8,100.0	7,130.4	7,868.8	7,130.4	61.8	53.8	179.30	2,111.6	-1,842.6	549.3	456.9	5.946		
8,200.0	7,230.4	7,968.8	7,230.4	61.8	53.8	179.30	2,111.6	-1,842.6	549.3	456.8	5.942		
8,300.0	7,330.4	8,068.8	7,330.4	61.9	53.8	179.30	2,111.6	-1,842.6	549.3	456.8	5.939		
8,400.0	7,430.4	8,168.8	7,430.4	61.9	53.9	179.30	2,111.6	-1,842.6	549.3	456.7	5.935		
8,500.0	7,530.4	8,268.8	7,530.4	61.9	53.9	179.30	2,111.6	-1,842.6	549.3	456.7	5.932		
8,600.0	7,630.4	8,368.8	7,630.4	61.9	53.9	179.30	2,111.6	-1,842.6	549.3	456.6	5.928		
8,700.0	7,730.4	8,468.8	7,730.4	61.9	53.9	179.30	2,111.6	-1,842.6	549.3	456.6	5.925		
8,800.0	7,830.4	8,568.8	7,830.4	61.9	53.9	179.30	2,111.6	-1,842.6	549.3	456.5	5.921		
8,802.9	7,833.3	8,571.7	7,833.3	61.9	53.9	179.30	2,111.6	-1,842.6	549.3	456.5	5.921		
8,828.6	7,859.0	8,587.4	7,849.0	61.9	53.9	179.30	2,111.6	-1,842.6	549.4	457.0	5.950		

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 0993-20-11E - Slot A1
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 0993-20-11E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	KLXDirectional-AD
Reference Design:	Design #2	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	159.85	-21.0	7.7	22.4				
100.0	100.0	100.0	100.0	0.8	0.8	159.85	-21.0	7.7	22.4	20.8	14.109		
200.0	200.0	200.0	200.0	1.4	1.4	159.85	-21.0	7.7	22.4	19.5	7.900	CC, ES	
300.0	300.0	300.2	300.2	2.5	1.7	-179.65	-20.9	7.4	24.4	20.2	5.869		
400.0	399.7	400.8	400.7	4.0	2.8	-173.94	-19.6	3.9	28.7	22.4	4.559		
500.0	499.1	501.1	500.7	5.1	4.2	-164.81	-16.8	-3.7	35.4	27.6	4.550	SF	
600.0	598.0	601.5	600.3	6.1	4.6	-155.63	-12.2	-15.3	45.1	36.7	5.365		
700.0	696.1	702.3	699.7	6.9	5.2	-145.04	-4.4	-29.7	56.1	46.9	6.056		
800.0	793.3	803.3	798.6	7.6	6.1	-137.95	6.9	-46.8	67.4	57.3	6.680		
900.0	889.4	904.4	896.7	8.3	6.9	-132.89	21.7	-66.7	78.7	67.9	7.250		
1,000.0	984.2	1,005.8	993.8	8.9	7.7	-129.11	39.9	-89.3	90.0	78.3	7.705		
1,100.0	1,077.6	1,107.3	1,089.7	9.6	8.4	-126.18	61.6	-114.5	101.0	88.5	8.037		
1,200.0	1,169.4	1,209.1	1,184.3	10.2	9.1	-123.84	86.7	-142.3	111.9	98.3	8.246		
1,300.0	1,259.4	1,311.0	1,277.4	10.8	9.7	-121.92	115.1	-172.8	122.4	107.7	8.338		
1,400.0	1,347.4	1,413.2	1,368.7	11.4	10.4	-120.33	146.9	-205.7	132.7	116.8	8.327		
1,500.0	1,433.3	1,514.5	1,457.3	11.9	10.8	-119.07	181.4	-240.7	142.7	125.4	8.251		
1,600.0	1,516.9	1,613.9	1,543.7	12.5	11.1	-119.13	216.0	-275.5	154.0	135.1	8.145		
1,700.0	1,598.0	1,712.8	1,629.7	12.9	11.5	-120.57	250.4	-310.2	167.1	146.4	8.088		
1,800.0	1,678.2	1,811.6	1,715.7	13.3	11.9	-122.74	284.8	-344.8	181.0	158.6	8.082		
1,900.0	1,758.4	1,910.5	1,801.6	13.6	12.3	-124.59	319.1	-379.4	195.2	171.1	8.099		
2,000.0	1,838.6	2,009.3	1,887.5	14.1	12.7	-126.20	353.5	-414.0	209.6	183.8	8.129		
2,100.0	1,918.8	2,108.1	1,973.5	14.6	13.2	-127.60	387.9	-448.6	224.0	196.6	8.163		
2,200.0	1,999.0	2,206.9	2,059.4	15.4	13.8	-128.83	422.3	-483.2	238.7	209.6	8.210		
2,300.0	2,079.2	2,305.7	2,145.3	16.3	14.5	-129.92	456.6	-517.8	253.4	222.7	8.254		
2,400.0	2,159.4	2,404.5	2,231.2	17.4	15.4	-130.88	491.0	-552.4	268.1	235.8	8.298		
2,500.0	2,239.6	2,503.3	2,317.2	18.5	16.2	-131.75	525.4	-587.0	283.0	249.1	8.343		
2,600.0	2,319.8	2,602.1	2,403.1	19.6	17.1	-132.53	559.7	-621.6	297.9	262.4	8.386		
2,700.0	2,400.0	2,700.9	2,489.0	20.7	18.0	-133.24	594.1	-656.3	312.9	275.7	8.429		
2,800.0	2,480.2	2,799.7	2,574.9	21.8	18.9	-133.88	628.5	-690.9	327.9	289.1	8.469		
2,900.0	2,560.4	2,898.5	2,660.9	22.9	19.8	-134.46	662.8	-725.5	342.9	302.6	8.509		
3,000.0	2,640.7	2,997.3	2,746.8	24.1	20.7	-135.00	697.2	-760.1	358.0	316.1	8.546		
3,100.0	2,720.9	3,096.1	2,832.7	25.2	21.6	-135.49	731.6	-794.7	373.0	329.6	8.581		
3,200.0	2,801.1	3,194.9	2,918.7	26.3	22.6	-135.95	765.9	-829.3	388.2	343.1	8.615		
3,300.0	2,881.3	3,293.7	3,004.6	27.4	23.5	-136.37	800.3	-863.9	403.3	356.7	8.648		
3,400.0	2,961.5	3,392.5	3,090.5	28.6	24.4	-136.76	834.7	-898.5	418.5	370.2	8.678		
3,500.0	3,041.7	3,491.3	3,176.4	29.7	25.3	-137.12	869.0	-933.1	433.6	383.8	8.707		
3,600.0	3,121.9	3,590.1	3,262.4	30.8	26.2	-137.46	903.4	-967.7	448.8	397.5	8.735		
3,700.0	3,202.1	3,688.9	3,348.3	32.0	27.1	-137.78	937.8	-1,002.3	464.1	411.1	8.761		
3,800.0	3,282.3	3,787.8	3,434.2	33.1	28.1	-138.07	972.2	-1,036.9	479.3	424.7	8.786		
3,900.0	3,362.5	3,886.6	3,520.2	34.2	29.0	-138.35	1,006.5	-1,071.5	494.5	438.4	8.810		
4,000.0	3,442.7	3,985.4	3,606.1	35.4	29.9	-138.61	1,040.9	-1,106.2	509.8	452.0	8.833		
4,100.0	3,522.9	4,084.2	3,692.0	36.5	30.8	-138.86	1,075.3	-1,140.8	525.0	465.7	8.854		
4,200.0	3,603.1	4,183.0	3,777.9	37.7	31.7	-139.09	1,109.6	-1,175.4	540.3	479.4	8.875		
4,300.0	3,683.3	4,281.8	3,863.9	38.8	32.7	-139.31	1,144.0	-1,210.0	555.5	493.1	8.895		
4,400.0	3,763.5	4,380.6	3,949.8	39.9	33.6	-139.52	1,178.4	-1,244.6	570.8	506.8	8.913		
4,500.0	3,843.7	4,479.4	4,035.7	41.1	34.5	-139.71	1,212.7	-1,279.2	586.1	520.5	8.931		
4,600.0	3,923.9	4,578.2	4,121.7	42.2	35.4	-139.90	1,247.1	-1,313.8	601.4	534.2	8.948		
4,700.0	4,004.1	4,677.0	4,207.6	43.4	36.4	-140.08	1,281.5	-1,348.4	616.7	547.9	8.965		
4,800.0	4,084.3	4,775.8	4,293.5	44.5	37.3	-140.25	1,315.8	-1,383.0	632.0	561.6	8.980		
4,900.0	4,164.5	4,874.6	4,379.4	45.6	38.2	-140.41	1,350.2	-1,417.6	647.3	575.4	8.995		
5,000.0	4,244.7	4,973.4	4,465.4	46.8	39.1	-140.56	1,384.6	-1,452.2	662.6	589.1	9.010		
5,100.0	4,324.9	5,072.2	4,551.3	47.9	40.1	-140.71	1,418.9	-1,486.8	677.9	602.8	9.024		

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 0993-20-11E - Slot A1
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 0993-20-11E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	KLXDirectional-AD
Reference Design:	Design #2	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	4,405.1	5,171.0	4,637.2	49.1	41.0	-140.85	1,453.3	-1,521.4	693.3	616.6	9.037		
5,300.0	4,485.3	5,269.8	4,723.1	50.2	41.9	-140.98	1,487.7	-1,556.0	708.6	630.3	9.050		
5,400.0	4,565.5	5,368.6	4,809.1	51.4	42.8	-141.11	1,522.0	-1,590.7	723.9	644.0	9.062		
5,500.0	4,645.7	5,467.4	4,895.0	52.5	43.8	-141.23	1,556.4	-1,625.3	739.3	657.8	9.074		
5,600.0	4,725.9	5,556.3	4,972.4	53.6	44.6	-141.40	1,587.0	-1,656.1	754.9	672.0	9.106		
5,700.0	4,807.8	5,636.6	5,043.8	54.7	45.3	-141.79	1,613.2	-1,682.4	770.6	686.5	9.157		
5,800.0	4,892.0	5,716.8	5,116.1	55.8	45.9	-142.15	1,637.4	-1,706.9	785.3	700.0	9.200		
5,900.0	4,978.5	5,800.0	5,192.5	56.7	46.5	-142.49	1,660.7	-1,730.3	799.0	712.5	9.235		
6,000.0	5,067.2	5,876.5	5,263.7	57.5	47.0	-142.78	1,680.4	-1,750.2	811.6	724.2	9.281		
6,100.0	5,157.7	5,956.1	5,338.8	58.3	47.5	-143.05	1,699.1	-1,769.0	823.2	734.9	9.320		
6,200.0	5,250.0	6,035.6	5,414.6	59.0	47.9	-143.29	1,716.0	-1,785.9	833.7	744.6	9.358		
6,300.0	5,343.9	6,115.0	5,491.0	59.6	48.3	-143.50	1,730.9	-1,801.0	843.1	753.4	9.393		
6,400.0	5,439.3	6,200.0	5,573.7	60.1	48.6	-143.70	1,744.8	-1,815.0	851.5	761.1	9.415		
6,500.0	5,535.8	6,273.3	5,645.6	60.5	48.9	-143.86	1,755.1	-1,825.3	858.7	768.0	9.461		
6,600.0	5,633.4	6,352.3	5,723.5	60.9	49.1	-144.00	1,764.3	-1,834.6	864.8	773.7	9.493		
6,700.0	5,731.8	6,431.3	5,801.8	61.2	49.3	-144.12	1,771.7	-1,842.0	869.9	778.5	9.524		
6,800.0	5,831.0	6,500.0	5,870.1	61.4	49.4	-144.21	1,776.5	-1,846.9	873.8	782.6	9.581		
6,900.0	5,930.6	6,589.0	5,959.0	61.6	49.5	-144.29	1,780.6	-1,851.0	876.5	785.0	9.583		
7,000.0	6,030.4	6,667.9	6,037.8	61.6	49.6	-144.34	1,782.2	-1,852.7	878.1	786.8	9.615		
7,100.0	6,130.4	6,760.5	6,130.4	61.7	49.6	-179.77	1,782.4	-1,852.8	878.5	787.2	9.624		
7,200.0	6,230.4	6,860.5	6,230.4	61.7	49.6	-179.77	1,782.4	-1,852.8	878.5	787.2	9.618		
7,300.0	6,330.4	6,960.5	6,330.4	61.7	49.6	-179.77	1,782.4	-1,852.8	878.5	787.1	9.613		
7,400.0	6,430.4	7,060.5	6,430.4	61.7	49.7	-179.77	1,782.4	-1,852.8	878.5	787.1	9.607		
7,500.0	6,530.4	7,160.5	6,530.4	61.7	49.7	-179.77	1,782.4	-1,852.8	878.5	787.0	9.602		
7,600.0	6,630.4	7,260.5	6,630.4	61.7	49.7	-179.77	1,782.4	-1,852.8	878.5	787.0	9.596		
7,700.0	6,730.4	7,360.5	6,730.4	61.8	49.7	-179.77	1,782.4	-1,852.8	878.5	786.9	9.591		
7,800.0	6,830.4	7,460.5	6,830.4	61.8	49.8	-179.77	1,782.4	-1,852.8	878.5	786.8	9.585		
7,900.0	6,930.4	7,560.5	6,930.4	61.8	49.8	-179.77	1,782.4	-1,852.8	878.5	786.8	9.579		
8,000.0	7,030.4	7,660.5	7,030.4	61.8	49.8	-179.77	1,782.4	-1,852.8	878.5	786.7	9.574		
8,100.0	7,130.4	7,760.5	7,130.4	61.8	49.8	-179.77	1,782.4	-1,852.8	878.5	786.7	9.568		
8,200.0	7,230.4	7,860.5	7,230.4	61.8	49.8	-179.77	1,782.4	-1,852.8	878.5	786.6	9.562		
8,300.0	7,330.4	7,960.5	7,330.4	61.9	49.9	-179.77	1,782.4	-1,852.8	878.5	786.6	9.557		
8,400.0	7,430.4	8,060.5	7,430.4	61.9	49.9	-179.77	1,782.4	-1,852.8	878.5	786.5	9.551		
8,500.0	7,530.4	8,160.5	7,530.4	61.9	49.9	-179.77	1,782.4	-1,852.8	878.5	786.5	9.545		
8,600.0	7,630.4	8,260.5	7,630.4	61.9	49.9	-179.77	1,782.4	-1,852.8	878.5	786.4	9.540		
8,700.0	7,730.4	8,360.5	7,730.4	61.9	50.0	-179.77	1,782.4	-1,852.8	878.5	786.4	9.534		
8,800.0	7,830.4	8,460.5	7,830.4	61.9	50.0	-179.77	1,782.4	-1,852.8	878.5	786.3	9.528		
8,828.6	7,859.0	8,489.1	7,859.0	61.9	50.0	-179.77	1,782.4	-1,852.8	878.5	786.3	9.527		

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 0993-20-11E - Slot A1
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 0993-20-11E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	KLXDirectional-AD
Reference Design:	Design #2	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	151.68	-27.8	15.0	31.6				
100.0	100.0	100.0	100.0	0.8	0.8	151.68	-27.8	15.0	31.6	30.0	19.965		
200.0	200.0	200.0	200.0	1.4	1.4	151.68	-27.8	15.0	31.6	28.8	11.179	CC, ES	
300.0	300.0	300.0	300.0	2.5	1.9	172.21	-27.8	15.0	33.8	29.4	7.788		
400.0	399.7	400.7	400.6	4.0	2.3	175.22	-27.6	13.5	39.4	33.3	6.398		
500.0	499.1	501.4	501.1	5.1	4.0	-176.97	-26.4	7.0	46.9	39.0	5.917	SF	
600.0	598.0	601.5	600.6	6.1	5.2	-167.14	-24.4	-4.7	57.6	48.7	6.441		
700.0	696.1	702.6	700.3	6.9	5.6	-154.96	-19.9	-20.2	70.7	60.8	7.136		
800.0	793.3	803.8	799.5	7.6	6.4	-146.63	-12.0	-38.6	84.6	73.7	7.740		
900.0	889.4	905.3	898.2	8.3	7.1	-140.61	-0.7	-59.8	98.9	87.1	8.365		
1,000.0	984.2	1,007.1	996.0	8.9	7.8	-136.06	14.0	-83.9	113.4	100.7	8.967		
1,100.0	1,077.6	1,109.2	1,092.7	9.6	8.4	-132.50	32.2	-110.8	127.8	114.4	9.482		
1,200.0	1,169.4	1,211.5	1,188.3	10.2	9.1	-129.63	53.7	-140.4	142.2	127.8	9.869		
1,300.0	1,259.4	1,314.1	1,282.4	10.8	9.7	-127.25	78.7	-172.7	156.5	141.0	10.125		
1,400.0	1,347.4	1,416.9	1,374.8	11.4	10.3	-125.25	107.0	-207.8	170.5	153.9	10.269		
1,500.0	1,433.3	1,515.8	1,462.7	11.9	10.6	-124.17	135.7	-242.6	185.5	167.6	10.356		
1,600.0	1,516.9	1,614.3	1,550.3	12.5	10.9	-124.26	164.3	-277.3	202.6	183.2	10.440		
1,700.0	1,598.0	1,712.2	1,637.4	12.9	11.3	-125.33	192.8	-311.9	221.7	200.7	10.573		
1,800.0	1,678.2	1,809.9	1,724.3	13.3	11.6	-127.13	221.2	-346.3	241.8	219.3	10.742		
1,900.0	1,758.4	1,907.6	1,811.2	13.6	12.0	-128.65	249.6	-380.7	262.2	238.1	10.905		
2,000.0	1,838.6	2,005.3	1,898.1	14.1	12.5	-129.95	278.0	-415.2	282.7	257.1	11.057		
2,100.0	1,918.8	2,103.0	1,985.0	14.6	13.0	-131.08	306.4	-449.6	303.3	276.2	11.200		
2,200.0	1,999.0	2,200.7	2,071.9	15.4	13.5	-132.06	334.8	-484.1	324.0	295.4	11.331		
2,300.0	2,079.2	2,298.4	2,158.8	16.3	14.1	-132.93	363.2	-518.5	344.8	314.6	11.453		
2,400.0	2,159.4	2,396.1	2,245.7	17.4	14.8	-133.69	391.6	-552.9	365.6	334.0	11.565		
2,500.0	2,239.6	2,493.8	2,332.6	18.5	15.6	-134.38	419.9	-587.4	386.5	353.4	11.668		
2,600.0	2,319.8	2,591.4	2,419.5	19.6	16.4	-134.99	448.3	-621.8	407.5	372.8	11.764		
2,700.0	2,400.0	2,689.1	2,506.4	20.7	17.2	-135.54	476.7	-656.3	428.5	392.3	11.852		
2,800.0	2,480.2	2,786.8	2,593.3	21.8	18.0	-136.05	505.1	-690.7	449.5	411.8	11.933		
2,900.0	2,560.4	2,884.5	2,680.2	22.9	18.8	-136.50	533.5	-725.1	470.5	431.4	12.008		
3,000.0	2,640.7	2,982.2	2,767.1	24.1	19.6	-136.92	561.9	-759.6	491.6	450.9	12.078		
3,100.0	2,720.9	3,079.9	2,854.0	25.2	20.4	-137.31	590.3	-794.0	512.7	470.5	12.143		
3,200.0	2,801.1	3,177.6	2,940.9	26.3	21.2	-137.66	618.7	-828.5	533.9	490.1	12.203		
3,300.0	2,881.3	3,275.3	3,027.8	27.4	22.0	-137.99	647.1	-862.9	555.0	509.7	12.259		
3,400.0	2,961.5	3,373.0	3,114.7	28.6	22.9	-138.29	675.5	-897.3	576.2	529.4	12.311		
3,500.0	3,041.7	3,470.7	3,201.6	29.7	23.7	-138.57	703.9	-931.8	597.3	549.0	12.360		
3,600.0	3,121.9	3,568.4	3,288.5	30.8	24.5	-138.83	732.3	-966.2	618.5	568.7	12.406		
3,700.0	3,202.1	3,666.1	3,375.4	32.0	25.4	-139.08	760.6	-1,000.7	639.7	588.3	12.449		
3,800.0	3,282.3	3,763.7	3,462.3	33.1	26.2	-139.31	789.0	-1,035.1	660.9	608.0	12.489		
3,900.0	3,362.5	3,861.4	3,549.2	34.2	27.0	-139.52	817.4	-1,069.5	682.2	627.7	12.527		
4,000.0	3,442.7	3,959.1	3,636.1	35.4	27.9	-139.72	845.8	-1,104.0	703.4	647.4	12.562		
4,100.0	3,522.9	4,056.8	3,723.0	36.5	28.7	-139.91	874.2	-1,138.4	724.6	667.1	12.596		
4,200.0	3,603.1	4,154.5	3,809.9	37.7	29.5	-140.09	902.6	-1,172.9	745.9	686.8	12.627		
4,300.0	3,683.3	4,252.2	3,896.8	38.8	30.4	-140.26	931.0	-1,207.3	767.1	706.5	12.657		
4,400.0	3,763.5	4,349.9	3,983.7	39.9	31.2	-140.42	959.4	-1,241.7	788.4	726.2	12.685		
4,500.0	3,843.7	4,447.6	4,070.6	41.1	32.0	-140.57	987.8	-1,276.2	809.6	746.0	12.712		
4,600.0	3,923.9	4,545.3	4,157.5	42.2	32.9	-140.72	1,016.2	-1,310.6	830.9	765.7	12.737		
4,700.0	4,004.1	4,643.0	4,244.4	43.4	33.7	-140.85	1,044.6	-1,345.1	852.2	785.4	12.761		
4,800.0	4,084.3	4,740.7	4,331.3	44.5	34.6	-140.98	1,073.0	-1,379.5	873.5	805.1	12.784		
4,900.0	4,164.5	4,838.4	4,418.2	45.6	35.4	-141.11	1,101.4	-1,413.9	894.7	824.9	12.806		
5,000.0	4,244.7	4,936.0	4,505.1	46.8	36.2	-141.23	1,129.7	-1,448.4	916.0	844.6	12.827		
5,100.0	4,324.9	5,033.7	4,592.0	47.9	37.1	-141.34	1,158.1	-1,482.8	937.3	864.4	12.846		

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 0993-20-11E - Slot A1
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 0993-20-11E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	KLXDirectional-AD
Reference Design:	Design #2	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	4,405.1	5,131.4	4,678.9	49.1	37.9	-141.45	1,186.5	-1,517.3	958.6	884.1	12.865		
5,300.0	4,485.3	5,229.1	4,765.8	50.2	38.8	-141.55	1,214.9	-1,551.7	979.9	903.8	12.883		
5,400.0	4,565.5	5,326.8	4,852.7	51.4	39.6	-141.65	1,243.3	-1,586.1	1,001.2	923.6	12.900		
5,500.0	4,645.7	5,424.5	4,939.6	52.5	40.5	-141.74	1,271.7	-1,620.6	1,022.5	943.3	12.917		
5,600.0	4,725.9	5,518.5	5,023.3	53.6	41.3	-141.88	1,299.0	-1,653.7	1,043.8	963.1	12.941		
5,700.0	4,807.8	5,600.0	5,096.6	54.7	41.9	-142.27	1,321.6	-1,681.1	1,064.4	982.4	12.987		
5,800.0	4,892.0	5,670.1	5,160.6	55.8	42.5	-142.62	1,339.7	-1,703.1	1,083.5	1,000.5	13.048		
5,900.0	4,978.5	5,745.7	5,230.6	56.7	43.0	-142.95	1,357.8	-1,725.0	1,101.4	1,017.3	13.093		
6,000.0	5,067.2	5,821.1	5,301.4	57.5	43.4	-143.24	1,374.4	-1,745.2	1,117.9	1,032.8	13.136		
6,100.0	5,157.7	5,900.0	5,376.3	58.3	43.9	-143.51	1,390.2	-1,764.3	1,132.9	1,046.9	13.168		
6,200.0	5,250.0	5,971.8	5,445.2	59.0	44.2	-143.75	1,403.1	-1,780.0	1,146.6	1,059.9	13.216		
6,300.0	5,343.9	6,047.0	5,517.9	59.6	44.6	-143.96	1,415.2	-1,794.6	1,158.9	1,071.4	13.254		
6,400.0	5,439.3	6,122.1	5,591.2	60.1	44.9	-144.15	1,425.7	-1,807.4	1,169.7	1,081.7	13.289		
6,500.0	5,535.8	6,200.0	5,667.7	60.5	45.1	-144.31	1,435.0	-1,818.6	1,179.1	1,090.5	13.315		
6,600.0	5,633.4	6,272.2	5,739.0	60.9	45.3	-144.45	1,442.1	-1,827.3	1,187.0	1,098.1	13.355		
6,700.0	5,731.8	6,347.2	5,813.4	61.2	45.5	-144.57	1,448.0	-1,834.4	1,193.5	1,104.3	13.386		
6,800.0	5,831.0	6,422.1	5,888.0	61.4	45.6	-144.67	1,452.3	-1,839.7	1,198.5	1,109.1	13.414		
6,900.0	5,930.6	6,500.0	5,965.8	61.6	45.7	-144.74	1,455.2	-1,843.1	1,202.0	1,112.5	13.434		
7,000.0	6,030.4	6,571.9	6,037.6	61.6	45.7	-144.79	1,456.3	-1,844.5	1,204.1	1,114.7	13.474		
7,100.0	6,130.4	6,664.7	6,130.4	61.7	45.8	179.78	1,456.4	-1,844.6	1,204.5	1,115.1	13.479		
7,200.0	6,230.4	6,764.7	6,230.4	61.7	45.8	179.78	1,456.4	-1,844.6	1,204.5	1,115.1	13.471		
7,300.0	6,330.4	6,864.7	6,330.4	61.7	45.8	179.78	1,456.4	-1,844.6	1,204.5	1,115.0	13.463		
7,400.0	6,430.4	6,964.7	6,430.4	61.7	45.8	179.78	1,456.4	-1,844.6	1,204.5	1,115.0	13.455		
7,500.0	6,530.4	7,064.7	6,530.4	61.7	45.9	179.78	1,456.4	-1,844.6	1,204.5	1,114.9	13.446		
7,600.0	6,630.4	7,164.7	6,630.4	61.7	45.9	179.78	1,456.4	-1,844.6	1,204.5	1,114.8	13.438		
7,700.0	6,730.4	7,264.7	6,730.4	61.8	45.9	179.78	1,456.4	-1,844.6	1,204.5	1,114.8	13.430		
7,800.0	6,830.4	7,364.7	6,830.4	61.8	45.9	179.78	1,456.4	-1,844.6	1,204.5	1,114.7	13.422		
7,900.0	6,930.4	7,464.7	6,930.4	61.8	46.0	179.78	1,456.4	-1,844.6	1,204.5	1,114.7	13.414		
8,000.0	7,030.4	7,564.7	7,030.4	61.8	46.0	179.78	1,456.4	-1,844.6	1,204.5	1,114.6	13.406		
8,100.0	7,130.4	7,664.7	7,130.4	61.8	46.0	179.78	1,456.4	-1,844.6	1,204.5	1,114.6	13.397		
8,200.0	7,230.4	7,764.7	7,230.4	61.8	46.0	179.78	1,456.4	-1,844.6	1,204.5	1,114.5	13.389		
8,300.0	7,330.4	7,864.7	7,330.4	61.9	46.1	179.78	1,456.4	-1,844.6	1,204.5	1,114.5	13.381		
8,400.0	7,430.4	7,964.7	7,430.4	61.9	46.1	179.78	1,456.4	-1,844.6	1,204.5	1,114.4	13.373		
8,500.0	7,530.4	8,064.7	7,530.4	61.9	46.1	179.78	1,456.4	-1,844.6	1,204.5	1,114.4	13.364		
8,600.0	7,630.4	8,164.7	7,630.4	61.9	46.1	179.78	1,456.4	-1,844.6	1,204.5	1,114.3	13.356		
8,700.0	7,730.4	8,264.7	7,730.4	61.9	46.2	179.78	1,456.4	-1,844.6	1,204.5	1,114.2	13.347		
8,800.0	7,830.4	8,364.7	7,830.4	61.9	46.2	179.78	1,456.4	-1,844.6	1,204.5	1,114.2	13.340		
8,828.6	7,859.0	8,368.2	7,834.0	61.9	46.2	179.78	1,456.4	-1,844.6	1,204.7	1,114.9	13.405		

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 0993-20-11E - Slot A1
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 0993-20-11E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	KLXDirectional-AD
Reference Design:	Design #2	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	144.57	-41.5	29.6	51.0				
100.0	100.0	100.0	100.0	0.8	0.8	144.57	-41.5	29.6	51.0	49.4	32.190		
200.0	200.0	200.0	200.0	1.4	1.4	144.57	-41.5	29.6	51.0	48.2	18.024	CC, ES	
300.0	300.0	300.6	300.6	2.5	1.7	165.49	-41.5	29.2	52.9	48.8	12.912		
400.0	399.7	401.8	401.8	4.0	2.9	170.28	-41.2	25.2	56.9	50.6	9.046		
500.0	499.1	502.6	502.2	5.1	4.3	178.24	-40.4	16.8	63.4	55.5	7.955	SF	
600.0	598.0	603.0	601.7	6.1	4.9	-172.48	-39.2	4.1	73.8	64.9	8.276		
700.0	696.1	704.4	701.7	6.9	5.4	-160.39	-35.8	-12.3	86.9	77.0	8.774		
800.0	793.3	805.9	801.1	7.6	6.2	-151.53	-29.1	-31.8	101.3	90.3	9.223		
900.0	889.4	907.5	899.7	8.3	6.9	-144.79	-19.4	-54.5	116.7	104.9	9.858		
1,000.0	984.2	1,009.3	997.3	8.9	7.6	-139.49	-6.6	-80.3	132.8	120.2	10.514		
1,100.0	1,077.6	1,111.2	1,093.7	9.6	8.3	-135.20	9.4	-109.2	149.5	136.0	11.093		
1,200.0	1,169.4	1,213.2	1,188.7	10.2	9.0	-131.64	28.4	-141.1	166.6	152.2	11.564		
1,300.0	1,259.4	1,315.1	1,281.9	10.8	9.7	-128.64	50.4	-175.9	184.0	168.5	11.908		
1,400.0	1,347.4	1,413.3	1,370.9	11.4	10.1	-126.73	72.8	-210.6	202.8	186.2	12.212		
1,500.0	1,433.3	1,511.0	1,459.6	11.9	10.4	-126.01	95.2	-245.1	223.8	205.9	12.486		
1,600.0	1,516.9	1,608.2	1,547.8	12.5	10.8	-126.18	117.4	-279.4	246.9	227.5	12.745		
1,700.0	1,598.0	1,704.6	1,635.3	12.9	11.1	-127.10	139.4	-313.5	272.3	251.4	13.049		
1,800.0	1,678.2	1,800.7	1,722.4	13.3	11.5	-128.79	161.3	-347.5	298.7	276.4	13.380		
1,900.0	1,758.4	1,896.8	1,809.6	13.6	11.9	-130.20	183.3	-381.4	325.3	301.5	13.686		
2,000.0	1,838.6	1,992.9	1,896.8	14.1	12.3	-131.40	205.2	-415.4	352.1	326.9	13.966		
2,100.0	1,918.8	2,089.1	1,984.0	14.6	12.7	-132.43	227.2	-449.4	379.0	352.3	14.220		
2,200.0	1,999.0	2,185.2	2,071.2	15.4	13.2	-133.33	249.1	-483.3	406.0	377.9	14.453		
2,300.0	2,079.2	2,281.3	2,158.4	16.3	13.7	-134.11	271.1	-517.3	433.0	403.5	14.666		
2,400.0	2,159.4	2,377.4	2,245.6	17.4	14.3	-134.80	293.0	-551.2	460.2	429.2	14.858		
2,500.0	2,239.6	2,473.5	2,332.7	18.5	14.9	-135.42	315.0	-585.2	487.4	455.0	15.035		
2,600.0	2,319.8	2,569.6	2,419.9	19.6	15.5	-135.97	336.9	-619.1	514.6	480.8	15.196		
2,700.0	2,400.0	2,665.7	2,507.1	20.7	16.2	-136.46	358.9	-653.1	541.9	506.6	15.344		
2,800.0	2,480.2	2,761.8	2,594.3	21.8	17.0	-136.91	380.8	-687.1	569.2	532.5	15.480		
2,900.0	2,560.4	2,857.9	2,681.5	22.9	17.7	-137.32	402.8	-721.0	596.6	558.3	15.605		
3,000.0	2,640.7	2,954.0	2,768.7	24.1	18.4	-137.69	424.7	-755.0	623.9	584.3	15.721		
3,100.0	2,720.9	3,050.1	2,855.9	25.2	19.2	-138.03	446.7	-788.9	651.3	610.2	15.827		
3,200.0	2,801.1	3,146.2	2,943.0	26.3	19.9	-138.34	468.6	-822.9	678.7	636.1	15.926		
3,300.0	2,881.3	3,242.3	3,030.2	27.4	20.6	-138.63	490.6	-856.9	706.2	662.1	16.018		
3,400.0	2,961.5	3,338.4	3,117.4	28.6	21.4	-138.89	512.5	-890.8	733.6	688.1	16.103		
3,500.0	3,041.7	3,434.5	3,204.6	29.7	22.1	-139.14	534.5	-924.8	761.1	714.0	16.182		
3,600.0	3,121.9	3,530.6	3,291.8	30.8	22.9	-139.37	556.4	-958.7	788.6	740.0	16.256		
3,700.0	3,202.1	3,626.8	3,379.0	32.0	23.6	-139.59	578.3	-992.7	816.0	766.0	16.325		
3,800.0	3,282.3	3,722.9	3,466.2	33.1	24.4	-139.79	600.3	-1,026.6	843.5	792.1	16.390		
3,900.0	3,362.5	3,819.0	3,553.3	34.2	25.1	-139.97	622.2	-1,060.6	871.0	818.1	16.451		
4,000.0	3,442.7	3,915.1	3,640.5	35.4	25.9	-140.15	644.2	-1,094.6	898.5	844.1	16.508		
4,100.0	3,522.9	4,011.2	3,727.7	36.5	26.7	-140.32	666.1	-1,128.5	926.1	870.1	16.561		
4,200.0	3,603.1	4,107.3	3,814.9	37.7	27.4	-140.47	688.1	-1,162.5	953.6	896.2	16.612		
4,300.0	3,683.3	4,203.4	3,902.1	38.8	28.2	-140.62	710.0	-1,196.4	981.1	922.2	16.659		
4,400.0	3,763.5	4,299.5	3,989.3	39.9	28.9	-140.76	732.0	-1,230.4	1,008.6	948.3	16.704		
4,500.0	3,843.7	4,395.6	4,076.5	41.1	29.7	-140.89	753.9	-1,264.4	1,036.2	974.3	16.747		
4,600.0	3,923.9	4,491.7	4,163.7	42.2	30.4	-141.02	775.9	-1,298.3	1,063.7	1,000.4	16.787		
4,700.0	4,004.1	4,587.8	4,250.8	43.4	31.2	-141.14	797.8	-1,332.3	1,091.3	1,026.4	16.825		
4,800.0	4,084.3	4,683.9	4,338.0	44.5	32.0	-141.25	819.8	-1,366.2	1,118.8	1,052.5	16.862		
4,900.0	4,164.5	4,780.0	4,425.2	45.6	32.7	-141.36	841.7	-1,400.2	1,146.4	1,078.5	16.896		
5,000.0	4,244.7	4,876.1	4,512.4	46.8	33.5	-141.46	863.7	-1,434.2	1,173.9	1,104.6	16.929		
5,100.0	4,324.9	4,972.2	4,599.6	47.9	34.2	-141.56	885.6	-1,468.1	1,201.5	1,130.7	16.960		

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 0993-20-11E - Slot A1
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 0993-20-11E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	KLXDirectional-AD
Reference Design:	Design #2	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	4,405.1	5,068.3	4,686.8	49.1	35.0	-141.65	907.6	-1,502.1	1,229.1	1,156.7	16.990		
5,300.0	4,485.3	5,164.5	4,774.0	50.2	35.8	-141.74	929.5	-1,536.0	1,256.7	1,182.8	17.018		
5,400.0	4,565.5	5,260.6	4,861.1	51.4	36.5	-141.83	951.5	-1,570.0	1,284.2	1,208.9	17.045		
5,500.0	4,645.7	5,356.7	4,948.3	52.5	37.3	-141.91	973.4	-1,603.9	1,311.8	1,235.0	17.071		
5,600.0	4,725.9	5,452.8	5,035.5	53.6	38.0	-142.05	995.4	-1,637.9	1,339.3	1,261.0	17.096		
5,700.0	4,807.8	5,539.3	5,114.1	54.7	38.7	-142.46	1,015.0	-1,668.3	1,365.0	1,285.3	17.122		
5,800.0	4,892.0	5,600.0	5,169.8	55.8	39.2	-142.83	1,028.1	-1,688.5	1,388.7	1,308.0	17.207		
5,900.0	4,978.5	5,685.4	5,249.2	56.7	39.7	-143.16	1,045.1	-1,714.8	1,410.7	1,328.7	17.211		
6,000.0	5,067.2	5,758.4	5,318.1	57.5	40.2	-143.46	1,058.3	-1,735.3	1,431.0	1,348.0	17.251		
6,100.0	5,157.7	5,831.5	5,387.7	58.3	40.6	-143.73	1,070.4	-1,754.0	1,449.6	1,365.7	17.289		
6,200.0	5,250.0	5,900.0	5,453.6	59.0	40.9	-143.98	1,080.6	-1,769.8	1,466.4	1,381.8	17.336		
6,300.0	5,343.9	5,977.6	5,528.8	59.6	41.3	-144.20	1,090.9	-1,785.7	1,481.5	1,396.1	17.357		
6,400.0	5,439.3	6,050.7	5,600.2	60.1	41.5	-144.39	1,099.3	-1,798.7	1,494.8	1,408.9	17.388		
6,500.0	5,535.8	6,123.7	5,672.1	60.5	41.8	-144.56	1,106.5	-1,809.8	1,506.4	1,419.9	17.416		
6,600.0	5,633.4	6,200.0	5,747.5	60.9	42.0	-144.70	1,112.6	-1,819.3	1,516.1	1,429.1	17.433		
6,700.0	5,731.8	6,269.9	5,816.9	61.2	42.1	-144.83	1,117.0	-1,826.1	1,524.0	1,436.8	17.468		
6,800.0	5,831.0	6,343.0	5,889.7	61.4	42.2	-144.93	1,120.4	-1,831.4	1,530.2	1,442.7	17.491		
6,900.0	5,930.6	6,416.0	5,962.7	61.6	42.3	-145.00	1,122.6	-1,834.7	1,534.5	1,446.8	17.513		
7,000.0	6,030.4	6,489.1	6,035.7	61.6	42.3	-145.06	1,123.5	-1,836.1	1,536.9	1,449.3	17.535		
7,100.0	6,130.4	6,583.8	6,130.4	61.7	42.4	179.51	1,123.5	-1,836.1	1,537.4	1,449.7	17.527		
7,200.0	6,230.4	6,683.8	6,230.4	61.7	42.4	179.51	1,123.5	-1,836.1	1,537.4	1,449.6	17.516		
7,300.0	6,330.4	6,783.8	6,330.4	61.7	42.5	179.51	1,123.5	-1,836.1	1,537.4	1,449.6	17.505		
7,400.0	6,430.4	6,883.8	6,430.4	61.7	42.5	179.51	1,123.5	-1,836.1	1,537.4	1,449.5	17.494		
7,500.0	6,530.4	6,983.8	6,530.4	61.7	42.5	179.51	1,123.5	-1,836.1	1,537.4	1,449.5	17.483		
7,600.0	6,630.4	7,083.8	6,630.4	61.7	42.5	179.51	1,123.5	-1,836.1	1,537.4	1,449.4	17.472		
7,700.0	6,730.4	7,183.8	6,730.4	61.8	42.6	179.51	1,123.5	-1,836.1	1,537.4	1,449.4	17.462		
7,800.0	6,830.4	7,283.8	6,830.4	61.8	42.6	179.51	1,123.5	-1,836.1	1,537.4	1,449.3	17.451		
7,900.0	6,930.4	7,383.8	6,930.4	61.8	42.6	179.51	1,123.5	-1,836.1	1,537.4	1,449.3	17.440		
8,000.0	7,030.4	7,483.8	7,030.4	61.8	42.6	179.51	1,123.5	-1,836.1	1,537.4	1,449.2	17.429		
8,100.0	7,130.4	7,583.8	7,130.4	61.8	42.7	179.51	1,123.5	-1,836.1	1,537.4	1,449.2	17.417		
8,200.0	7,230.4	7,683.8	7,230.4	61.8	42.7	179.51	1,123.5	-1,836.1	1,537.4	1,449.1	17.406		
8,300.0	7,330.4	7,783.8	7,330.4	61.9	42.7	179.51	1,123.5	-1,836.1	1,537.4	1,449.0	17.395		
8,400.0	7,430.4	7,883.8	7,430.4	61.9	42.8	179.51	1,123.5	-1,836.1	1,537.4	1,449.0	17.384		
8,500.0	7,530.4	7,983.8	7,530.4	61.9	42.8	179.51	1,123.5	-1,836.1	1,537.4	1,448.9	17.373		
8,600.0	7,630.4	8,083.8	7,630.4	61.9	42.8	179.51	1,123.5	-1,836.1	1,537.4	1,448.9	17.362		
8,700.0	7,730.4	8,183.8	7,730.4	61.9	42.8	179.51	1,123.5	-1,836.1	1,537.4	1,448.8	17.350		
8,800.0	7,830.4	8,283.8	7,830.4	61.9	42.9	179.51	1,123.5	-1,836.1	1,537.4	1,448.8	17.339		
8,828.6	7,859.0	8,312.4	7,859.0	61.9	42.9	179.51	1,123.5	-1,836.1	1,537.4	1,448.7	17.336		

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 0993-20-11E - Slot A1
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 0993-20-11E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	KLXDirectional-AD
Reference Design:	Design #2	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	142.72	-48.4	36.8	60.8				
100.0	100.0	100.0	100.0	0.8	0.8	142.72	-48.4	36.8	60.8	59.2	38.395		
200.0	200.0	200.0	200.0	1.4	1.4	142.72	-48.4	36.8	60.8	58.0	21.498	CC, ES	
300.0	300.0	300.0	300.0	2.5	1.9	163.30	-48.4	36.8	62.9	58.6	14.643		
400.0	399.7	401.0	401.0	4.0	2.2	165.70	-48.4	35.6	68.5	62.4	11.315		
500.0	499.1	502.2	502.0	5.1	3.6	171.19	-48.4	30.0	76.3	68.5	9.779		
600.0	598.0	602.5	601.9	6.1	4.8	178.48	-48.4	20.1	87.3	78.1	9.549	SF	
700.0	696.1	701.9	700.2	6.9	5.8	-170.05	-48.4	5.9	102.3	92.2	10.142		
800.0	793.3	802.8	799.4	7.6	6.0	-160.89	-47.5	-12.5	120.7	109.9	11.167		
900.0	889.4	904.5	898.6	8.3	6.6	-153.89	-43.8	-34.4	140.5	128.6	11.811		
1,000.0	984.2	1,006.4	997.2	8.9	7.3	-148.38	-37.1	-59.6	161.4	148.4	12.450		
1,100.0	1,077.6	1,108.6	1,094.8	9.6	8.0	-143.90	-27.5	-88.2	183.0	169.0	13.113		
1,200.0	1,169.4	1,211.0	1,191.3	10.2	8.6	-140.17	-14.9	-120.0	205.3	190.4	13.762		
1,300.0	1,259.4	1,313.8	1,286.5	10.8	9.2	-136.99	0.7	-155.2	228.1	212.2	14.343		
1,400.0	1,347.4	1,411.5	1,376.1	11.4	9.5	-134.60	17.3	-190.5	252.2	235.3	14.900		
1,500.0	1,433.3	1,507.8	1,464.4	11.9	9.9	-133.22	33.7	-225.3	278.9	260.8	15.404		
1,600.0	1,516.9	1,603.4	1,552.1	12.5	10.2	-132.59	49.9	-259.9	308.1	288.7	15.887		
1,700.0	1,598.0	1,698.1	1,638.9	12.9	10.5	-132.65	66.0	-294.1	339.9	319.2	16.413		
1,800.0	1,678.2	1,792.4	1,725.3	13.3	10.9	-133.63	82.0	-328.2	372.6	350.6	16.949		
1,900.0	1,758.4	1,886.7	1,811.8	13.6	11.3	-134.46	98.0	-362.3	405.4	382.2	17.419		
2,000.0	1,838.6	1,981.0	1,898.2	14.1	11.7	-135.17	114.1	-396.5	438.3	413.7	17.828		
2,100.0	1,918.8	2,075.3	1,984.7	14.6	12.1	-135.78	130.1	-430.6	471.3	445.4	18.192		
2,200.0	1,999.0	2,169.6	2,071.2	15.4	12.5	-136.31	146.1	-464.7	504.2	477.0	18.508		
2,300.0	2,079.2	2,264.0	2,157.6	16.3	13.0	-136.77	162.1	-498.8	537.2	508.7	18.788		
2,400.0	2,159.4	2,358.3	2,244.1	17.4	13.5	-137.18	178.2	-532.9	570.3	540.3	19.037		
2,500.0	2,239.6	2,452.6	2,330.5	18.5	14.1	-137.55	194.2	-567.0	603.4	572.0	19.258		
2,600.0	2,319.8	2,546.9	2,417.0	19.6	14.7	-137.87	210.2	-601.1	636.4	603.7	19.456		
2,700.0	2,400.0	2,641.2	2,503.4	20.7	15.3	-138.17	226.2	-635.2	669.5	635.4	19.633		
2,800.0	2,480.2	2,735.5	2,589.9	21.8	15.9	-138.43	242.3	-669.3	702.6	667.1	19.792		
2,900.0	2,560.4	2,829.8	2,676.3	22.9	16.6	-138.68	258.3	-703.4	735.8	698.9	19.936		
3,000.0	2,640.7	2,924.1	2,762.8	24.1	17.3	-138.90	274.3	-737.5	768.9	730.6	20.066		
3,100.0	2,720.9	3,018.4	2,849.2	25.2	17.9	-139.10	290.3	-771.6	802.1	762.3	20.184		
3,200.0	2,801.1	3,112.7	2,935.7	26.3	18.6	-139.29	306.3	-805.7	835.2	794.1	20.292		
3,300.0	2,881.3	3,207.1	3,022.2	27.4	19.3	-139.46	322.4	-839.8	868.4	825.8	20.390		
3,400.0	2,961.5	3,301.4	3,108.6	28.6	20.0	-139.63	338.4	-873.9	901.5	857.5	20.480		
3,500.0	3,041.7	3,395.7	3,195.1	29.7	20.7	-139.77	354.4	-908.0	934.7	889.3	20.562		
3,600.0	3,121.9	3,490.0	3,281.5	30.8	21.4	-139.91	370.4	-942.1	967.9	921.0	20.638		
3,700.0	3,202.1	3,584.3	3,368.0	32.0	22.1	-140.04	386.5	-976.2	1,001.1	952.7	20.708		
3,800.0	3,282.3	3,678.6	3,454.4	33.1	22.8	-140.17	402.5	-1,010.4	1,034.3	984.5	20.773		
3,900.0	3,362.5	3,772.9	3,540.9	34.2	23.5	-140.28	418.5	-1,044.5	1,067.5	1,016.2	20.833		
4,000.0	3,442.7	3,867.2	3,627.3	35.4	24.2	-140.39	434.5	-1,078.6	1,100.7	1,048.0	20.889		
4,100.0	3,522.9	3,961.5	3,713.8	36.5	24.9	-140.49	450.6	-1,112.7	1,133.9	1,079.7	20.940		
4,200.0	3,603.1	4,055.8	3,800.2	37.7	25.6	-140.58	466.6	-1,146.8	1,167.1	1,111.5	20.988		
4,300.0	3,683.3	4,150.1	3,886.7	38.8	26.3	-140.67	482.6	-1,180.9	1,200.3	1,143.2	21.033		
4,400.0	3,763.5	4,244.5	3,973.2	39.9	27.0	-140.76	498.6	-1,215.0	1,233.5	1,174.9	21.075		
4,500.0	3,843.7	4,338.8	4,059.6	41.1	27.7	-140.84	514.6	-1,249.1	1,266.7	1,206.7	21.115		
4,600.0	3,923.9	4,433.1	4,146.1	42.2	28.4	-140.91	530.7	-1,283.2	1,299.9	1,238.4	21.151		
4,700.0	4,004.1	4,527.4	4,232.5	43.4	29.1	-140.99	546.7	-1,317.3	1,333.1	1,270.2	21.186		
4,800.0	4,084.3	4,621.7	4,319.0	44.5	29.8	-141.05	562.7	-1,351.4	1,366.3	1,301.9	21.218		
4,900.0	4,164.5	4,716.0	4,405.4	45.6	30.5	-141.12	578.7	-1,385.5	1,399.5	1,333.7	21.249		
5,000.0	4,244.7	4,810.3	4,491.9	46.8	31.2	-141.18	594.8	-1,419.6	1,432.8	1,365.4	21.278		
5,100.0	4,324.9	4,904.6	4,578.3	47.9	31.9	-141.24	610.8	-1,453.7	1,466.0	1,397.2	21.305		

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 0993-20-11E - Slot A1
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 0993-20-11E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	KLXDirectional-AD
Reference Design:	Design #2	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	4,405.1	4,998.9	4,664.8	49.1	32.6	-141.30	626.8	-1,487.8	1,499.2	1,428.9	21.331		
5,300.0	4,485.3	5,093.2	4,751.3	50.2	33.3	-141.36	642.8	-1,521.9	1,532.4	1,460.7	21.355		
5,400.0	4,565.5	5,187.6	4,837.7	51.4	34.0	-141.41	658.9	-1,556.0	1,565.7	1,492.4	21.378		
5,500.0	4,645.7	5,281.9	4,924.2	52.5	34.7	-141.46	674.9	-1,590.1	1,598.9	1,524.2	21.400		
5,600.0	4,725.9	5,376.2	5,010.6	53.6	35.5	-141.58	690.9	-1,624.3	1,632.1	1,555.9	21.422		
5,700.0	4,807.8	5,471.2	5,097.7	54.7	36.2	-142.07	707.0	-1,658.6	1,663.2	1,585.6	21.408		
5,800.0	4,892.0	5,551.4	5,171.5	55.8	36.8	-142.45	720.5	-1,687.2	1,691.4	1,612.4	21.414		
5,900.0	4,978.5	5,624.4	5,239.4	56.7	37.3	-142.79	731.8	-1,711.3	1,717.5	1,637.4	21.441		
6,000.0	5,067.2	5,700.0	5,310.6	57.5	37.7	-143.10	742.6	-1,734.2	1,741.6	1,660.5	21.454		
6,100.0	5,157.7	5,770.8	5,378.1	58.3	38.1	-143.39	751.7	-1,753.7	1,763.7	1,681.6	21.487		
6,200.0	5,250.0	5,844.3	5,448.7	59.0	38.5	-143.64	760.3	-1,771.9	1,783.7	1,700.7	21.508		
6,300.0	5,343.9	5,917.9	5,520.1	59.6	38.8	-143.87	767.9	-1,788.2	1,801.6	1,717.9	21.525		
6,400.0	5,439.3	6,000.0	5,600.4	60.1	39.1	-144.07	775.2	-1,803.8	1,817.3	1,732.9	21.514		
6,500.0	5,535.8	6,065.5	5,664.8	60.5	39.3	-144.25	780.2	-1,814.4	1,831.0	1,746.0	21.557		
6,600.0	5,633.4	6,139.4	5,738.0	60.9	39.5	-144.40	784.9	-1,824.3	1,842.5	1,757.1	21.569		
6,700.0	5,731.8	6,213.5	5,811.5	61.2	39.7	-144.53	788.6	-1,832.1	1,851.8	1,766.0	21.579		
6,800.0	5,831.0	6,300.0	5,897.7	61.4	39.8	-144.63	791.6	-1,838.5	1,859.1	1,772.8	21.555		
6,900.0	5,930.6	6,361.7	5,959.3	61.6	39.8	-144.71	792.9	-1,841.3	1,864.0	1,777.7	21.599		
7,000.0	6,030.4	6,435.8	6,033.4	61.6	39.9	-144.77	793.5	-1,842.6	1,866.9	1,780.5	21.612		
7,100.0	6,130.4	6,532.8	6,130.4	61.7	39.9	179.80	793.5	-1,842.7	1,867.4	1,780.9	21.602		
7,200.0	6,230.4	6,632.8	6,230.4	61.7	39.9	179.80	793.5	-1,842.7	1,867.4	1,780.9	21.590		
7,300.0	6,330.4	6,732.8	6,330.4	61.7	40.0	179.80	793.5	-1,842.7	1,867.4	1,780.8	21.576		
7,400.0	6,430.4	6,832.8	6,430.4	61.7	40.0	179.80	793.5	-1,842.7	1,867.4	1,780.8	21.562		
7,500.0	6,530.4	6,932.8	6,530.4	61.7	40.0	179.80	793.5	-1,842.7	1,867.4	1,780.7	21.549		
7,600.0	6,630.4	7,032.8	6,630.4	61.7	40.0	179.80	793.5	-1,842.7	1,867.4	1,780.6	21.535		
7,700.0	6,730.4	7,132.8	6,730.4	61.8	40.1	179.80	793.5	-1,842.7	1,867.4	1,780.6	21.521		
7,800.0	6,830.4	7,232.8	6,830.4	61.8	40.1	179.80	793.5	-1,842.7	1,867.4	1,780.5	21.508		
7,900.0	6,930.4	7,332.8	6,930.4	61.8	40.1	179.80	793.5	-1,842.7	1,867.4	1,780.5	21.494		
8,000.0	7,030.4	7,432.8	7,030.4	61.8	40.2	179.80	793.5	-1,842.7	1,867.4	1,780.4	21.480		
8,100.0	7,130.4	7,532.8	7,130.4	61.8	40.2	179.80	793.5	-1,842.7	1,867.4	1,780.4	21.466		
8,200.0	7,230.4	7,632.8	7,230.4	61.8	40.2	179.80	793.5	-1,842.7	1,867.4	1,780.3	21.452		
8,300.0	7,330.4	7,732.8	7,330.4	61.9	40.3	179.80	793.5	-1,842.7	1,867.4	1,780.3	21.438		
8,400.0	7,430.4	7,832.8	7,430.4	61.9	40.3	179.80	793.5	-1,842.7	1,867.4	1,780.2	21.424		
8,500.0	7,530.4	7,932.8	7,530.4	61.9	40.3	179.80	793.5	-1,842.7	1,867.4	1,780.1	21.410		
8,600.0	7,630.4	8,032.8	7,630.4	61.9	40.3	179.80	793.5	-1,842.7	1,867.4	1,780.1	21.395		
8,700.0	7,730.4	8,132.8	7,730.4	61.9	40.4	179.80	793.5	-1,842.7	1,867.4	1,780.0	21.381		
8,711.5	7,741.9	8,144.3	7,741.9	61.9	40.4	179.80	793.5	-1,842.7	1,867.4	1,780.0	21.380		
8,800.0	7,830.4	8,219.4	7,817.0	61.9	40.4	179.80	793.5	-1,842.7	1,867.4	1,780.1	21.399		
8,828.6	7,859.0	8,219.4	7,817.0	61.9	40.4	179.80	793.5	-1,842.7	1,867.8	1,780.8	21.471		

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 0993-20-11E - Slot A1
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 0993-20-11E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	KLXDirectional-AD
Reference Design:	Design #2	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	140.39	-62.1	51.4	80.6				
100.0	100.0	100.0	100.0	0.8	0.8	140.39	-62.1	51.4	80.6	79.0	50.889		
200.0	200.0	200.0	200.0	1.4	1.4	140.39	-62.1	51.4	80.6	77.8	28.494	CC, ES	
300.0	300.0	300.0	300.0	2.5	1.9	160.88	-62.1	51.4	82.7	78.4	19.313		
400.0	399.7	400.9	400.9	4.0	2.1	162.53	-62.1	50.8	88.5	82.6	14.942		
500.0	499.1	502.8	502.7	5.1	3.2	166.60	-62.1	46.3	96.5	88.8	12.588		
600.0	598.0	604.0	603.5	6.1	4.5	172.51	-62.1	37.3	107.0	97.8	11.651	SF	
700.0	696.1	704.2	702.8	6.9	5.5	-176.92	-62.1	24.1	121.0	110.7	11.765		
800.0	793.3	804.9	801.9	7.6	5.9	-168.00	-61.8	6.5	138.6	127.6	12.617		
900.0	889.4	906.5	901.1	8.3	6.4	-160.66	-59.5	-15.2	158.5	146.6	13.312		
1,000.0	984.2	1,007.8	999.1	8.9	7.2	-154.58	-55.1	-40.6	180.3	167.5	14.050		
1,100.0	1,077.6	1,109.0	1,095.8	9.6	7.9	-149.44	-48.6	-69.7	203.8	190.1	14.866		
1,200.0	1,169.4	1,210.0	1,190.9	10.2	8.6	-145.03	-40.0	-102.5	229.0	214.4	15.651		
1,300.0	1,259.4	1,309.2	1,283.0	10.8	9.0	-141.27	-29.5	-138.0	255.7	240.2	16.433		
1,400.0	1,347.4	1,404.5	1,371.0	11.4	9.3	-138.60	-19.0	-172.9	285.2	268.6	17.162		
1,500.0	1,433.3	1,499.1	1,458.4	11.9	9.6	-136.85	-8.6	-207.6	317.6	299.8	17.859		
1,600.0	1,516.9	1,592.7	1,544.9	12.5	10.0	-135.80	1.7	-241.9	352.6	333.6	18.530		
1,700.0	1,598.0	1,685.3	1,630.4	12.9	10.3	-135.42	11.9	-275.9	390.2	369.9	19.241		
1,800.0	1,678.2	1,777.5	1,715.6	13.3	10.7	-136.08	22.1	-309.6	428.8	407.3	19.956		
1,900.0	1,758.4	1,869.6	1,800.7	13.6	11.0	-136.64	32.2	-343.4	467.4	444.7	20.580		
2,000.0	1,838.6	1,961.8	1,885.8	14.1	11.4	-137.11	42.4	-377.2	506.1	482.1	21.122		
2,100.0	1,918.8	2,053.9	1,971.0	14.6	11.8	-137.51	52.6	-411.0	544.8	519.6	21.596		
2,200.0	1,999.0	2,146.1	2,056.1	15.4	12.2	-137.87	62.7	-444.7	583.5	557.0	22.014		
2,300.0	2,079.2	2,238.2	2,141.2	16.3	12.6	-138.17	72.9	-478.5	622.2	594.4	22.379		
2,400.0	2,159.4	2,330.3	2,226.4	17.4	13.0	-138.44	83.0	-512.3	661.0	631.9	22.702		
2,500.0	2,239.6	2,422.5	2,311.5	18.5	13.5	-138.69	93.2	-546.1	699.7	669.3	22.988		
2,600.0	2,319.8	2,514.6	2,396.6	19.6	13.9	-138.90	103.3	-579.8	738.5	706.7	23.243		
2,700.0	2,400.0	2,606.8	2,481.7	20.7	14.4	-139.10	113.5	-613.6	777.3	744.1	23.471		
2,800.0	2,480.2	2,698.9	2,566.9	21.8	15.0	-139.27	123.6	-647.4	816.0	781.6	23.676		
2,900.0	2,560.4	2,791.1	2,652.0	22.9	15.6	-139.43	133.8	-681.2	854.8	819.0	23.859		
3,000.0	2,640.7	2,883.2	2,737.1	24.1	16.2	-139.58	144.0	-715.0	893.6	856.4	24.025		
3,100.0	2,720.9	2,975.4	2,822.3	25.2	16.9	-139.71	154.1	-748.7	932.4	893.8	24.175		
3,200.0	2,801.1	3,067.5	2,907.4	26.3	17.5	-139.84	164.3	-782.5	971.2	931.3	24.311		
3,300.0	2,881.3	3,159.7	2,992.5	27.4	18.2	-139.95	174.4	-816.3	1,010.0	968.7	24.435		
3,400.0	2,961.5	3,251.8	3,077.7	28.6	18.8	-140.06	184.6	-850.1	1,048.8	1,006.1	24.548		
3,500.0	3,041.7	3,344.0	3,162.8	29.7	19.5	-140.15	194.7	-883.8	1,087.6	1,043.5	24.652		
3,600.0	3,121.9	3,436.1	3,247.9	30.8	20.1	-140.24	204.9	-917.6	1,126.4	1,080.9	24.747		
3,700.0	3,202.1	3,528.3	3,333.0	32.0	20.8	-140.33	215.0	-951.4	1,165.3	1,118.3	24.834		
3,800.0	3,282.3	3,620.4	3,418.2	33.1	21.4	-140.41	225.2	-985.2	1,204.1	1,155.7	24.915		
3,900.0	3,362.5	3,712.5	3,503.3	34.2	22.1	-140.48	235.3	-1,018.9	1,242.9	1,193.2	24.989		
4,000.0	3,442.7	3,804.7	3,588.4	35.4	22.8	-140.55	245.5	-1,052.7	1,281.7	1,230.6	25.058		
4,100.0	3,522.9	3,896.8	3,673.6	36.5	23.4	-140.62	255.7	-1,086.5	1,320.5	1,268.0	25.122		
4,200.0	3,603.1	3,989.0	3,758.7	37.7	24.1	-140.68	265.8	-1,120.3	1,359.4	1,305.4	25.181		
4,300.0	3,683.3	4,081.1	3,843.8	38.8	24.7	-140.74	276.0	-1,154.0	1,398.2	1,342.8	25.237		
4,400.0	3,763.5	4,173.3	3,929.0	39.9	25.4	-140.80	286.1	-1,187.8	1,437.0	1,380.2	25.288		
4,500.0	3,843.7	4,265.4	4,014.1	41.1	26.1	-140.85	296.3	-1,221.6	1,475.8	1,417.6	25.336		
4,600.0	3,923.9	4,357.6	4,099.2	42.2	26.7	-140.90	306.4	-1,255.4	1,514.7	1,455.0	25.381		
4,700.0	4,004.1	4,449.7	4,184.3	43.4	27.4	-140.95	316.6	-1,289.1	1,553.5	1,492.4	25.424		
4,800.0	4,084.3	4,541.9	4,269.5	44.5	28.1	-140.99	326.7	-1,322.9	1,592.3	1,529.8	25.463		
4,900.0	4,164.5	4,634.0	4,354.6	45.6	28.7	-141.04	336.9	-1,356.7	1,631.1	1,567.2	25.500		
5,000.0	4,244.7	4,726.2	4,439.7	46.8	29.4	-141.08	347.0	-1,390.5	1,670.0	1,604.6	25.535		
5,100.0	4,324.9	4,818.3	4,524.9	47.9	30.1	-141.12	357.2	-1,424.3	1,708.8	1,642.0	25.568		

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 0993-20-11E - Slot A1
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 0993-20-11E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	KLXDirectional-AD
Reference Design:	Design #2	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	4,405.1	4,910.5	4,610.0	49.1	30.7	-141.15	367.4	-1,458.0	1,747.6	1,679.4	25.600		
5,300.0	4,485.3	5,002.6	4,695.1	50.2	31.4	-141.19	377.5	-1,491.8	1,786.5	1,716.8	25.629		
5,400.0	4,565.5	5,094.7	4,780.3	51.4	32.0	-141.22	387.7	-1,525.6	1,825.3	1,754.2	25.657		
5,500.0	4,645.7	5,186.9	4,865.4	52.5	32.7	-141.26	397.8	-1,559.4	1,864.1	1,791.5	25.683		
5,600.0	4,725.9	5,279.1	4,950.5	53.6	33.4	-141.37	408.0	-1,593.1	1,902.9	1,828.9	25.708		
5,700.0	4,807.8	5,372.0	5,036.4	54.7	34.1	-141.96	418.2	-1,627.2	1,939.8	1,864.3	25.698		
5,800.0	4,892.0	5,466.1	5,123.3	55.8	34.7	-142.40	428.6	-1,661.7	1,973.4	1,896.4	25.635		
5,900.0	4,978.5	5,548.9	5,200.0	56.7	35.3	-142.75	437.6	-1,691.6	2,003.9	1,925.6	25.601		
6,000.0	5,067.2	5,624.5	5,270.9	57.5	35.8	-143.06	445.2	-1,716.9	2,032.0	1,952.6	25.595		
6,100.0	5,157.7	5,700.0	5,342.4	58.3	36.3	-143.35	452.1	-1,739.8	2,057.7	1,977.3	25.589		
6,200.0	5,250.0	5,777.2	5,416.4	59.0	36.6	-143.61	458.4	-1,760.9	2,081.0	1,999.7	25.581		
6,300.0	5,343.9	5,854.2	5,490.9	59.6	37.0	-143.84	464.0	-1,779.6	2,101.9	2,019.7	25.573		
6,400.0	5,439.3	5,931.5	5,566.3	60.1	37.3	-144.04	468.9	-1,795.9	2,120.3	2,037.3	25.563		
6,500.0	5,535.8	6,000.0	5,633.6	60.5	37.5	-144.22	472.7	-1,808.4	2,136.2	2,052.7	25.582		
6,600.0	5,633.4	6,086.9	5,719.4	60.9	37.8	-144.37	476.6	-1,821.3	2,149.5	2,065.4	25.542		
6,700.0	5,731.8	6,164.9	5,796.8	61.2	37.9	-144.50	479.3	-1,830.3	2,160.4	2,075.7	25.532		
6,800.0	5,831.0	6,243.1	5,874.7	61.4	38.1	-144.61	481.2	-1,836.8	2,168.6	2,083.7	25.520		
6,900.0	5,930.6	6,321.4	5,952.9	61.6	38.2	-144.69	482.4	-1,840.7	2,174.4	2,089.1	25.506		
7,000.0	6,030.4	6,402.5	6,034.0	61.6	38.2	-144.76	482.8	-1,842.1	2,177.5	2,092.1	25.483		
7,100.0	6,130.4	6,498.9	6,130.4	61.7	38.3	179.81	482.8	-1,842.1	2,178.0	2,092.5	25.459		
7,200.0	6,230.4	6,598.9	6,230.4	61.7	38.3	179.81	482.8	-1,842.1	2,178.0	2,092.4	25.443		
7,300.0	6,330.4	6,698.9	6,330.4	61.7	38.4	179.81	482.8	-1,842.1	2,178.0	2,092.4	25.427		
7,400.0	6,430.4	6,798.9	6,430.4	61.7	38.4	179.81	482.8	-1,842.1	2,178.0	2,092.3	25.411		
7,500.0	6,530.4	6,898.9	6,530.4	61.7	38.4	179.81	482.8	-1,842.1	2,178.0	2,092.3	25.395		
7,600.0	6,630.4	6,998.9	6,630.4	61.7	38.4	179.81	482.8	-1,842.1	2,178.0	2,092.2	25.379		
7,700.0	6,730.4	7,098.9	6,730.4	61.8	38.5	179.81	482.8	-1,842.1	2,178.0	2,092.2	25.362		
7,800.0	6,830.4	7,198.9	6,830.4	61.8	38.5	179.81	482.8	-1,842.1	2,178.0	2,092.1	25.346		
7,900.0	6,930.4	7,298.9	6,930.4	61.8	38.5	179.81	482.8	-1,842.1	2,178.0	2,092.0	25.329		
8,000.0	7,030.4	7,398.9	7,030.4	61.8	38.6	179.81	482.8	-1,842.1	2,178.0	2,092.0	25.313		
8,100.0	7,130.4	7,498.9	7,130.4	61.8	38.6	179.81	482.8	-1,842.1	2,178.0	2,091.9	25.296		
8,200.0	7,230.4	7,598.9	7,230.4	61.8	38.6	179.81	482.8	-1,842.1	2,178.0	2,091.9	25.280		
8,300.0	7,330.4	7,698.9	7,330.4	61.9	38.7	179.81	482.8	-1,842.1	2,178.0	2,091.8	25.263		
8,400.0	7,430.4	7,798.9	7,430.4	61.9	38.7	179.81	482.8	-1,842.1	2,178.0	2,091.8	25.246		
8,500.0	7,530.4	7,898.9	7,530.4	61.9	38.7	179.81	482.8	-1,842.1	2,178.0	2,091.7	25.229		
8,600.0	7,630.4	7,998.9	7,630.4	61.9	38.7	179.81	482.8	-1,842.1	2,178.0	2,091.6	25.213		
8,700.0	7,730.4	8,098.9	7,730.4	61.9	38.8	179.81	482.8	-1,842.1	2,178.0	2,091.6	25.196		
8,800.0	7,830.4	8,198.9	7,830.4	61.9	38.8	179.81	482.8	-1,842.1	2,178.0	2,091.5	25.179		
8,828.6	7,859.0	8,227.5	7,859.0	61.9	38.8	179.81	482.8	-1,842.1	2,178.0	2,091.5	25.175		

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 0993-20-11E - Slot A1
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 0993-20-11E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	KLXDirectional-AD
Reference Design:	Design #2	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	-6.8	7.3	10.0				
100.0	100.0	100.0	100.0	0.8	0.8	133.28	-6.8	7.3	10.0	8.4	6.307		
200.0	200.0	200.0	200.0	1.4	1.4	133.28	-6.8	7.3	10.0	7.2	3.532	CC, ES	
300.0	300.0	300.1	300.1	2.5	2.1	150.53	-5.5	8.0	11.6	7.4	2.784	SF	
400.0	399.7	400.0	399.8	4.0	3.6	141.44	-0.3	10.9	16.3	10.7	2.918		
500.0	499.1	499.6	498.8	5.1	4.8	133.30	8.5	15.9	24.7	18.2	3.792		
600.0	598.0	598.6	596.8	6.1	5.8	127.78	21.1	22.9	36.8	29.4	5.010		
700.0	696.1	696.8	693.2	6.9	6.6	127.66	37.2	32.0	53.0	44.9	6.496		
800.0	793.3	793.7	787.6	7.6	7.4	126.94	56.5	42.8	74.0	65.0	8.196		
900.0	889.4	889.1	879.4	8.3	8.1	126.13	79.0	55.4	99.7	89.7	10.020		
1,000.0	984.2	982.7	968.4	8.9	8.7	125.37	104.3	69.6	129.9	119.0	11.913		
1,100.0	1,077.6	1,074.2	1,054.2	9.6	9.4	124.64	132.0	85.1	164.6	152.7	13.830		
1,200.0	1,169.4	1,163.4	1,136.6	10.2	9.9	123.92	161.9	101.9	203.6	190.7	15.737		
1,300.0	1,259.4	1,250.2	1,215.4	10.8	10.5	123.20	193.6	119.7	246.7	232.7	17.605		
1,400.0	1,347.4	1,334.4	1,290.4	11.4	11.0	122.45	226.9	138.4	293.6	278.5	19.415		
1,500.0	1,433.3	1,415.9	1,361.7	11.9	11.4	121.66	261.3	157.7	344.4	328.1	21.157		
1,600.0	1,516.9	1,494.6	1,429.1	12.5	11.9	120.81	296.7	177.5	398.6	381.1	22.817		
1,700.0	1,598.0	1,572.0	1,494.1	12.9	12.2	120.07	333.4	198.1	456.1	437.5	24.489		
1,800.0	1,678.2	1,652.9	1,561.7	13.3	12.4	120.27	372.3	219.9	514.8	494.9	25.897		
1,900.0	1,758.4	1,733.9	1,629.3	13.6	12.7	120.43	411.2	241.7	573.4	552.2	27.081		
2,000.0	1,838.6	1,814.9	1,696.9	14.1	13.0	120.56	450.1	263.5	632.0	609.5	28.080		
2,100.0	1,918.8	1,895.9	1,764.5	14.6	13.2	120.67	489.1	285.4	690.7	666.8	28.932		
2,200.0	1,999.0	1,976.9	1,832.0	15.4	13.5	120.77	528.0	307.2	749.3	724.1	29.659		
2,300.0	2,079.2	2,057.9	1,899.6	16.3	13.8	120.85	566.9	329.0	808.0	781.3	30.288		
2,400.0	2,159.4	2,138.9	1,967.2	17.4	14.1	120.91	605.8	350.9	866.6	838.5	30.835		
2,500.0	2,239.6	2,219.9	2,034.8	18.5	14.5	120.97	644.8	372.7	925.3	895.7	31.312		
2,600.0	2,319.8	2,300.9	2,102.4	19.6	14.8	121.03	683.7	394.5	983.9	952.9	31.738		
2,700.0	2,400.0	2,381.9	2,170.0	20.7	15.3	121.07	722.6	416.4	1,042.6	1,010.1	32.122		
2,800.0	2,480.2	2,462.9	2,237.6	21.8	16.1	121.12	761.5	438.2	1,101.2	1,067.3	32.443		
2,900.0	2,560.4	2,543.9	2,305.2	22.9	16.9	121.15	800.5	460.0	1,159.9	1,124.4	32.736		
3,000.0	2,640.7	2,624.9	2,372.8	24.1	17.6	121.19	839.4	481.8	1,218.5	1,181.6	33.000		
3,100.0	2,720.9	2,705.9	2,440.4	25.2	18.4	121.22	878.3	503.7	1,277.1	1,238.7	33.238		
3,200.0	2,801.1	2,786.9	2,507.9	26.3	19.1	121.25	917.2	525.5	1,335.8	1,295.9	33.453		
3,300.0	2,881.3	2,867.9	2,575.5	27.4	19.9	121.27	956.2	547.3	1,394.4	1,353.0	33.648		
3,400.0	2,961.5	2,948.9	2,643.1	28.6	20.7	121.30	995.1	569.2	1,453.1	1,410.1	33.826		
3,500.0	3,041.7	3,029.9	2,710.7	29.7	21.4	121.32	1,034.0	591.0	1,511.7	1,467.3	33.988		
3,600.0	3,121.9	3,110.9	2,778.3	30.8	22.2	121.34	1,072.9	612.8	1,570.4	1,524.4	34.137		
3,700.0	3,202.1	3,191.8	2,845.9	32.0	23.0	121.36	1,111.9	634.6	1,629.0	1,581.5	34.274		
3,800.0	3,282.3	3,272.8	2,913.5	33.1	23.7	121.37	1,150.8	656.5	1,687.7	1,638.6	34.399		
3,900.0	3,362.5	3,353.8	2,981.1	34.2	24.5	121.39	1,189.7	678.3	1,746.3	1,695.7	34.516		
4,000.0	3,442.7	3,434.8	3,048.7	35.4	25.2	121.40	1,228.6	700.1	1,805.0	1,752.8	34.624		
4,100.0	3,522.9	3,515.8	3,116.3	36.5	26.0	121.42	1,267.6	722.0	1,863.6	1,810.0	34.724		
4,200.0	3,603.1	3,596.8	3,183.8	37.7	26.8	121.43	1,306.5	743.8	1,922.3	1,867.1	34.817		
4,300.0	3,683.3	3,677.8	3,251.4	38.8	27.5	121.45	1,345.4	765.6	1,980.9	1,924.2	34.903		
4,400.0	3,763.5	3,758.8	3,319.0	39.9	28.3	121.46	1,384.4	787.4	2,039.6	1,981.3	34.984		
4,500.0	3,843.7	3,839.8	3,386.6	41.1	29.1	121.47	1,423.3	809.3	2,098.2	2,038.4	35.060		
4,600.0	3,923.9	3,920.8	3,454.2	42.2	29.8	121.48	1,462.2	831.1	2,156.9	2,095.5	35.131		
4,700.0	4,004.1	4,001.8	3,521.8	43.4	30.6	121.49	1,501.1	852.9	2,215.5	2,152.6	35.197		
4,800.0	4,084.3	4,082.8	3,589.4	44.5	31.4	121.50	1,540.1	874.8	2,274.2	2,209.7	35.260		
4,900.0	4,164.5	4,163.8	3,657.0	45.6	32.2	121.51	1,579.0	896.6	2,332.8	2,266.8	35.319		
5,000.0	4,244.7	4,244.8	3,724.6	46.8	32.9	121.52	1,617.9	918.4	2,391.5	2,323.9	35.374		
5,100.0	4,324.9	4,325.8	3,792.2	47.9	33.7	121.52	1,656.8	940.3	2,450.1	2,381.0	35.427		

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 0993-20-11E - Slot A1
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 0993-20-11E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	KLXDirectional-AD
Reference Design:	Design #2	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	4,405.1	4,406.8	3,859.7	49.1	34.5	121.53	1,695.8	962.1	2,508.8	2,438.1	35.476	
5,300.0	4,485.3	4,487.8	3,927.3	50.2	35.2	121.54	1,734.7	983.9	2,567.4	2,495.1	35.523	
5,400.0	4,565.5	4,568.8	3,994.9	51.4	36.0	121.55	1,773.6	1,005.7	2,626.1	2,552.2	35.568	
5,500.0	4,645.7	4,649.8	4,062.5	52.5	36.8	121.55	1,812.5	1,027.6	2,684.7	2,609.3	35.610	
5,600.0	4,725.9	4,730.8	4,130.1	53.6	37.5	121.77	1,851.5	1,049.4	2,743.4	2,666.4	35.651	
5,700.0	4,807.8	4,812.6	4,198.4	54.7	38.3	123.19	1,890.8	1,071.5	2,800.8	2,722.3	35.678	
5,800.0	4,892.0	4,895.6	4,267.6	55.8	39.1	124.44	1,930.7	1,093.8	2,856.3	2,776.2	35.685	
5,900.0	4,978.5	4,979.6	4,337.7	56.7	39.9	125.52	1,971.0	1,116.5	2,909.7	2,828.2	35.679	
6,000.0	5,067.2	5,064.4	4,408.6	57.5	40.7	126.44	2,011.8	1,139.3	2,961.0	2,878.0	35.662	
6,100.0	5,157.7	5,150.0	4,480.0	58.3	41.5	127.22	2,052.9	1,162.4	3,010.2	2,925.7	35.634	
6,200.0	5,250.0	5,236.1	4,551.8	59.0	42.3	127.86	2,094.3	1,185.6	3,057.1	2,971.3	35.598	
6,300.0	5,343.9	5,322.5	4,623.9	59.6	43.2	128.39	2,135.9	1,208.9	3,101.9	3,014.6	35.554	
6,400.0	5,439.3	5,409.2	4,696.3	60.1	44.0	128.80	2,177.5	1,232.2	3,144.3	3,055.8	35.506	
6,500.0	5,535.8	5,495.9	4,768.6	60.5	44.8	129.10	2,219.2	1,255.6	3,184.6	3,094.7	35.455	
6,600.0	5,633.4	5,582.4	4,840.8	60.9	45.6	129.31	2,260.8	1,278.9	3,222.6	3,131.5	35.403	
6,700.0	5,731.8	5,813.2	5,039.1	61.2	47.7	128.53	2,363.6	1,336.6	3,256.6	3,162.0	34.417	
6,800.0	5,831.0	6,081.4	5,283.0	61.4	49.6	127.74	2,460.6	1,391.0	3,283.7	3,185.7	33.477	
6,900.0	5,930.6	6,371.4	5,559.3	61.6	51.0	127.10	2,536.7	1,433.7	3,303.1	3,202.2	32.734	
7,000.0	6,030.4	6,677.7	5,860.7	61.6	52.0	126.68	2,583.4	1,459.9	3,314.1	3,211.3	32.240	
7,100.0	6,130.4	6,947.9	6,130.4	61.7	52.2	91.13	2,595.3	1,466.5	3,316.5	3,213.1	32.064	
7,200.0	6,230.4	7,047.9	6,230.4	61.7	52.2	91.13	2,595.3	1,466.5	3,316.5	3,213.0	32.057	
7,300.0	6,330.4	7,147.9	6,330.4	61.7	52.2	91.13	2,595.3	1,466.5	3,316.5	3,213.0	32.048	
7,400.0	6,430.4	7,247.9	6,430.4	61.7	52.3	91.13	2,595.3	1,466.5	3,316.5	3,213.0	32.038	
7,500.0	6,530.4	7,347.9	6,530.4	61.7	52.3	91.13	2,595.3	1,466.5	3,316.5	3,212.9	32.029	
7,600.0	6,630.4	7,447.9	6,630.4	61.7	52.3	91.13	2,595.3	1,466.5	3,316.5	3,212.9	32.019	
7,700.0	6,730.4	7,547.9	6,730.4	61.8	52.3	91.13	2,595.3	1,466.5	3,316.5	3,212.9	32.010	
7,800.0	6,830.4	7,647.9	6,830.4	61.8	52.3	91.13	2,595.3	1,466.5	3,316.5	3,212.8	32.000	
7,900.0	6,930.4	7,747.9	6,930.4	61.8	52.3	91.13	2,595.3	1,466.5	3,316.5	3,212.8	31.991	
8,000.0	7,030.4	7,847.9	7,030.4	61.8	52.4	91.13	2,595.3	1,466.5	3,316.5	3,212.8	31.981	
8,100.0	7,130.4	7,947.9	7,130.4	61.8	52.4	91.13	2,595.3	1,466.5	3,316.5	3,212.8	31.971	
8,200.0	7,230.4	8,047.9	7,230.4	61.8	52.4	91.13	2,595.3	1,466.5	3,316.5	3,212.7	31.961	
8,300.0	7,330.4	8,147.9	7,330.4	61.9	52.4	91.13	2,595.3	1,466.5	3,316.5	3,212.7	31.951	
8,400.0	7,430.4	8,247.9	7,430.4	61.9	52.4	91.13	2,595.3	1,466.5	3,316.5	3,212.7	31.941	
8,500.0	7,530.4	8,347.9	7,530.4	61.9	52.4	91.13	2,595.3	1,466.5	3,316.5	3,212.6	31.931	
8,600.0	7,630.4	8,447.9	7,630.4	61.9	52.5	91.13	2,595.3	1,466.5	3,316.5	3,212.6	31.921	
8,700.0	7,730.4	8,547.9	7,730.4	61.9	52.5	91.13	2,595.3	1,466.5	3,316.5	3,212.6	31.910	
8,800.0	7,830.4	8,647.9	7,830.4	61.9	52.5	91.13	2,595.3	1,466.5	3,316.5	3,212.5	31.900	
8,828.6	7,859.0	8,676.5	7,859.0	61.9	52.5	91.13	2,595.3	1,466.5	3,316.5	3,212.5	31.898	

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 0993-20-11E - Slot A1
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 0993-20-11E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	KLXDirectional-AD
Reference Design:	Design #2	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	-13.7	14.6	20.0				
100.0	100.0	100.0	100.0	0.8	0.8	133.26	-13.7	14.6	20.0	18.4	12.619		
200.0	200.0	200.0	200.0	1.4	1.4	133.26	-13.7	14.6	20.0	17.2	7.066	CC, ES	
300.0	300.0	300.1	300.1	2.5	2.5	150.12	-11.9	15.8	21.6	17.4	5.144		
400.0	399.7	400.0	399.7	4.0	4.0	143.09	-6.5	19.5	26.8	21.1	4.717	SF	
500.0	499.1	499.4	498.5	5.1	5.1	136.02	2.5	25.5	36.0	29.3	5.371		
600.0	598.0	598.1	596.1	6.1	6.0	130.58	14.8	33.9	49.2	41.6	6.476		
700.0	696.1	695.7	691.9	6.9	6.8	130.34	30.5	44.5	67.0	58.5	7.901		
800.0	793.3	791.9	785.4	7.6	7.6	129.50	49.2	57.2	89.8	80.5	9.566		
900.0	889.4	886.3	876.1	8.3	8.3	128.58	70.7	71.8	117.6	107.3	11.378		
1,000.0	984.2	978.6	963.8	8.9	8.9	127.70	94.7	88.1	150.2	138.9	13.283		
1,100.0	1,077.6	1,068.6	1,048.0	9.6	9.5	126.89	120.9	105.8	187.5	175.2	15.236		
1,200.0	1,169.4	1,156.0	1,128.5	10.2	10.0	126.10	148.9	124.8	229.2	215.9	17.198		
1,300.0	1,259.4	1,240.6	1,205.2	10.8	10.6	125.31	178.5	144.9	275.2	260.9	19.143		
1,400.0	1,347.4	1,322.3	1,278.0	11.4	11.1	124.49	209.2	165.7	325.3	309.8	21.041		
1,500.0	1,433.3	1,401.1	1,346.8	11.9	11.5	123.64	240.9	187.2	379.1	362.6	22.869		
1,600.0	1,516.9	1,482.8	1,417.5	12.5	11.9	122.91	274.9	210.2	436.1	418.3	24.552		
1,700.0	1,598.0	1,563.3	1,487.1	12.9	12.1	122.61	308.4	232.9	495.3	476.4	26.149		
1,800.0	1,678.2	1,643.1	1,556.1	13.3	12.4	123.25	341.6	255.4	555.3	535.2	27.611		
1,900.0	1,758.4	1,722.9	1,625.1	13.6	12.7	123.77	374.8	277.9	615.4	594.1	28.873		
2,000.0	1,838.6	1,802.7	1,694.1	14.1	12.9	124.20	408.0	300.4	675.5	653.0	29.962		
2,100.0	1,918.8	1,882.6	1,763.1	14.6	13.2	124.55	441.2	323.0	735.7	711.9	30.902		
2,200.0	1,999.0	1,962.4	1,832.1	15.4	13.5	124.86	474.4	345.5	795.8	770.7	31.721		
2,300.0	2,079.2	2,042.2	1,901.1	16.3	13.8	125.12	507.6	368.0	856.0	829.6	32.439		
2,400.0	2,159.4	2,122.0	1,970.1	17.4	14.1	125.34	540.8	390.5	916.1	888.4	33.072		
2,500.0	2,239.6	2,201.9	2,039.2	18.5	14.4	125.54	574.0	413.0	976.3	947.3	33.634		
2,600.0	2,319.8	2,281.7	2,108.2	19.6	14.8	125.72	607.2	435.5	1,036.5	1,006.1	34.128		
2,700.0	2,400.0	2,361.5	2,177.2	20.7	15.1	125.88	640.4	458.0	1,096.7	1,065.0	34.565		
2,800.0	2,480.2	2,441.3	2,246.2	21.8	15.5	126.02	673.7	480.6	1,156.9	1,123.8	34.985		
2,900.0	2,560.4	2,521.2	2,315.2	22.9	16.1	126.14	706.9	503.1	1,217.1	1,182.6	35.332		
3,000.0	2,640.7	2,601.0	2,384.2	24.1	16.8	126.26	740.1	525.6	1,277.3	1,241.4	35.653		
3,100.0	2,720.9	2,680.8	2,453.2	25.2	17.5	126.36	773.3	548.1	1,337.5	1,300.3	35.947		
3,200.0	2,801.1	2,760.6	2,522.2	26.3	18.2	126.46	806.5	570.6	1,397.7	1,359.1	36.214		
3,300.0	2,881.3	2,840.5	2,591.2	27.4	18.9	126.54	839.7	593.1	1,457.9	1,417.9	36.457		
3,400.0	2,961.5	2,920.3	2,660.2	28.6	19.6	126.62	872.9	615.6	1,518.1	1,476.7	36.679		
3,500.0	3,041.7	3,000.1	2,729.2	29.7	20.3	126.70	906.1	638.2	1,578.3	1,535.5	36.884		
3,600.0	3,121.9	3,079.9	2,798.3	30.8	20.9	126.77	939.3	660.7	1,638.5	1,594.3	37.072		
3,700.0	3,202.1	3,159.8	2,867.3	32.0	21.6	126.83	972.5	683.2	1,698.7	1,653.1	37.246		
3,800.0	3,282.3	3,239.6	2,936.3	33.1	22.3	126.89	1,005.7	705.7	1,758.9	1,711.9	37.407		
3,900.0	3,362.5	3,319.4	3,005.3	34.2	23.0	126.95	1,038.9	728.2	1,819.2	1,770.7	37.556		
4,000.0	3,442.7	3,399.2	3,074.3	35.4	23.7	127.00	1,072.2	750.7	1,879.4	1,829.5	37.695		
4,100.0	3,522.9	3,479.1	3,143.3	36.5	24.4	127.05	1,105.4	773.2	1,939.6	1,888.3	37.824		
4,200.0	3,603.1	3,558.9	3,212.3	37.7	25.1	127.09	1,138.6	795.8	1,999.8	1,947.1	37.945		
4,300.0	3,683.3	3,638.7	3,281.3	38.8	25.8	127.14	1,171.8	818.3	2,060.0	2,005.9	38.057		
4,400.0	3,763.5	3,718.5	3,350.3	39.9	26.5	127.18	1,205.0	840.8	2,120.3	2,064.7	38.163		
4,500.0	3,843.7	3,798.4	3,419.3	41.1	27.2	127.21	1,238.2	863.3	2,180.5	2,123.5	38.262		
4,600.0	3,923.9	3,878.2	3,488.4	42.2	27.9	127.25	1,271.4	885.8	2,240.7	2,182.3	38.355		
4,700.0	4,004.1	3,958.0	3,557.4	43.4	28.6	127.29	1,304.6	908.3	2,300.9	2,241.1	38.443		
4,800.0	4,084.3	4,037.8	3,626.4	44.5	29.3	127.32	1,337.8	930.8	2,361.2	2,299.9	38.525		
4,900.0	4,164.5	4,117.7	3,695.4	45.6	30.0	127.35	1,371.0	953.3	2,421.4	2,358.7	38.603		
5,000.0	4,244.7	4,197.5	3,764.4	46.8	30.7	127.38	1,404.2	975.9	2,481.6	2,417.4	38.677		
5,100.0	4,324.9	4,277.3	3,833.4	47.9	31.4	127.41	1,437.4	998.4	2,541.8	2,476.2	38.746		

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 0993-20-11E - Slot A1
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 0993-20-11E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	KLXDirectional-AD
Reference Design:	Design #2	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	4,405.1	4,357.1	3,902.4	49.1	32.1	127.43	1,470.6	1,020.9	2,602.1	2,535.0	38.812		
5,300.0	4,485.3	4,437.0	3,971.4	50.2	32.7	127.46	1,503.9	1,043.4	2,662.3	2,593.8	38.875		
5,400.0	4,565.5	4,516.8	4,040.4	51.4	33.4	127.48	1,537.1	1,065.9	2,722.5	2,652.6	38.934		
5,500.0	4,645.7	4,596.6	4,109.4	52.5	34.1	127.51	1,570.3	1,088.4	2,782.7	2,711.4	38.991		
5,600.0	4,725.9	4,676.5	4,178.5	53.6	34.8	127.73	1,603.5	1,111.0	2,842.9	2,770.1	39.046		
5,700.0	4,807.8	4,757.3	4,248.3	54.7	35.5	129.12	1,637.1	1,133.7	2,901.8	2,827.5	39.078		
5,800.0	4,892.0	4,839.6	4,319.5	55.8	36.3	130.33	1,671.3	1,157.0	2,958.4	2,882.7	39.078		
5,900.0	4,978.5	4,923.2	4,391.8	56.7	37.0	131.37	1,706.1	1,180.5	3,012.7	2,935.5	39.057		
6,000.0	5,067.2	5,007.9	4,465.0	57.5	37.7	132.26	1,741.4	1,204.4	3,064.5	2,986.0	39.015		
6,100.0	5,157.7	5,093.7	4,539.1	58.3	38.5	133.00	1,777.0	1,228.6	3,113.9	3,034.0	38.955		
6,200.0	5,250.0	5,180.2	4,614.0	59.0	39.2	133.61	1,813.1	1,253.0	3,160.8	3,079.5	38.879		
6,300.0	5,343.9	5,267.4	4,689.4	59.6	40.0	134.09	1,849.3	1,277.6	3,205.1	3,122.5	38.789		
6,400.0	5,439.3	5,355.1	4,765.2	60.1	40.8	134.47	1,885.8	1,302.4	3,246.8	3,162.9	38.688		
6,500.0	5,535.8	5,443.2	4,841.3	60.5	41.5	134.73	1,922.5	1,327.2	3,285.9	3,200.7	38.577		
6,600.0	5,633.4	5,531.4	4,917.6	60.9	42.3	134.90	1,959.1	1,352.1	3,322.4	3,236.0	38.458		
6,700.0	5,731.8	5,691.0	5,056.9	61.2	43.7	134.56	2,023.6	1,395.8	3,355.9	3,267.2	37.825		
6,800.0	5,831.0	5,953.7	5,296.6	61.4	45.5	133.76	2,112.3	1,455.9	3,383.1	3,290.9	36.691		
6,900.0	5,930.6	6,238.0	5,567.8	61.6	46.9	133.11	2,182.1	1,503.2	3,402.4	3,307.3	35.786		
7,000.0	6,030.4	6,538.3	5,863.4	61.6	47.8	132.69	2,225.0	1,532.3	3,413.3	3,316.2	35.166		
7,100.0	6,130.4	6,805.8	6,130.4	61.7	48.1	97.14	2,236.2	1,539.9	3,415.7	3,317.9	34.929		
7,200.0	6,230.4	6,905.8	6,230.4	61.7	48.1	97.14	2,236.2	1,539.9	3,415.7	3,317.9	34.917		
7,300.0	6,330.4	7,005.8	6,330.4	61.7	48.1	97.14	2,236.2	1,539.9	3,415.7	3,317.8	34.905		
7,400.0	6,430.4	7,105.8	6,430.4	61.7	48.2	97.14	2,236.2	1,539.9	3,415.7	3,317.8	34.893		
7,500.0	6,530.4	7,205.8	6,530.4	61.7	48.2	97.14	2,236.2	1,539.9	3,415.7	3,317.8	34.882		
7,600.0	6,630.4	7,305.8	6,630.4	61.7	48.2	97.14	2,236.2	1,539.9	3,415.7	3,317.7	34.870		
7,700.0	6,730.4	7,405.8	6,730.4	61.8	48.2	97.14	2,236.2	1,539.9	3,415.7	3,317.7	34.858		
7,800.0	6,830.4	7,505.8	6,830.4	61.8	48.2	97.14	2,236.2	1,539.9	3,415.7	3,317.7	34.846		
7,900.0	6,930.4	7,605.8	6,930.4	61.8	48.2	97.14	2,236.2	1,539.9	3,415.7	3,317.6	34.834		
8,000.0	7,030.4	7,705.8	7,030.4	61.8	48.3	97.14	2,236.2	1,539.9	3,415.7	3,317.6	34.821		
8,100.0	7,130.4	7,805.8	7,130.4	61.8	48.3	97.14	2,236.2	1,539.9	3,415.7	3,317.6	34.809		
8,200.0	7,230.4	7,905.8	7,230.4	61.8	48.3	97.14	2,236.2	1,539.9	3,415.7	3,317.5	34.797		
8,300.0	7,330.4	8,005.8	7,330.4	61.9	48.3	97.14	2,236.2	1,539.9	3,415.7	3,317.5	34.784		
8,400.0	7,430.4	8,105.8	7,430.4	61.9	48.3	97.14	2,236.2	1,539.9	3,415.7	3,317.5	34.772		
8,500.0	7,530.4	8,205.8	7,530.4	61.9	48.4	97.14	2,236.2	1,539.9	3,415.7	3,317.4	34.759		
8,600.0	7,630.4	8,305.8	7,630.4	61.9	48.4	97.14	2,236.2	1,539.9	3,415.7	3,317.4	34.746		
8,700.0	7,730.4	8,405.8	7,730.4	61.9	48.4	97.14	2,236.2	1,539.9	3,415.7	3,317.4	34.734		
8,800.0	7,830.4	8,505.8	7,830.4	61.9	48.4	97.14	2,236.2	1,539.9	3,415.7	3,317.3	34.721		
8,828.6	7,859.0	8,534.3	7,859.0	61.9	48.4	97.14	2,236.2	1,539.9	3,415.7	3,317.3	34.719		

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 0993-20-11E - Slot A1
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 0993-20-11E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	KLXDirectional-AD
Reference Design:	Design #2	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	133.24	-20.6	21.9	30.0				
100.0	100.0	100.0	100.0	0.8	0.8	133.24	-20.6	21.9	30.0	28.4	18.944		
200.0	200.0	200.0	200.0	1.4	1.4	133.24	-20.6	21.9	30.0	27.2	10.607	CC, ES	
300.0	300.0	299.9	299.9	2.5	1.9	152.78	-19.7	22.7	32.0	28.0	7.937		
400.0	399.7	399.6	399.4	4.0	3.4	149.04	-15.9	26.6	38.2	32.5	6.711	SF	
500.0	499.1	498.7	498.0	5.1	4.6	144.08	-9.1	33.5	48.8	41.9	7.049		
600.0	598.0	596.8	595.2	6.1	5.6	139.52	0.5	43.4	64.0	56.0	8.016		
700.0	696.1	693.7	690.4	6.9	6.5	139.54	12.9	56.0	84.4	75.4	9.391		
800.0	793.3	788.7	783.0	7.6	7.2	138.66	27.7	71.1	110.3	100.3	11.057		
900.0	889.4	881.4	872.5	8.3	7.9	137.57	44.8	88.6	141.6	130.6	12.913		
1,000.0	984.2	971.5	958.4	8.9	8.6	136.49	63.8	108.0	178.3	166.3	14.906		
1,100.0	1,077.6	1,058.7	1,040.4	9.6	9.2	135.45	84.4	129.0	220.0	207.1	16.992		
1,200.0	1,169.4	1,142.7	1,118.4	10.2	9.7	134.46	106.3	151.4	266.7	252.8	19.133		
1,300.0	1,259.4	1,223.4	1,192.1	10.8	10.2	133.47	129.2	174.8	318.0	303.1	21.302		
1,400.0	1,347.4	1,300.0	1,261.0	11.4	10.7	132.48	152.6	198.7	373.6	357.7	23.492		
1,500.0	1,433.3	1,374.1	1,326.6	11.9	11.1	131.45	176.8	223.4	433.4	416.4	25.622		
1,600.0	1,516.9	1,444.0	1,387.3	12.5	11.5	130.35	201.0	248.1	496.9	479.0	27.809		
1,700.0	1,598.0	1,515.5	1,448.7	12.9	11.7	129.41	226.8	274.4	563.8	544.9	29.938		
1,800.0	1,678.2	1,589.0	1,511.6	13.3	11.9	129.60	253.3	301.5	631.6	611.7	31.854		
1,900.0	1,758.4	1,662.5	1,574.5	13.6	12.2	129.76	279.9	328.6	699.4	678.5	33.510		
2,000.0	1,838.6	1,736.0	1,637.5	14.1	12.4	129.89	306.4	355.7	767.1	745.2	34.960		
2,100.0	1,918.8	1,809.5	1,700.4	14.6	12.7	130.00	333.0	382.8	834.9	811.9	36.233		
2,200.0	1,999.0	1,883.0	1,763.4	15.4	12.9	130.09	359.6	410.0	902.7	878.6	37.345		
2,300.0	2,079.2	1,956.5	1,826.3	16.3	13.2	130.16	386.1	437.1	970.5	945.2	38.323		
2,400.0	2,159.4	2,030.0	1,889.2	17.4	13.5	130.23	412.7	464.2	1,038.3	1,011.9	39.191		
2,500.0	2,239.6	2,103.5	1,952.2	18.5	13.8	130.29	439.3	491.3	1,106.1	1,078.5	39.969		
2,600.0	2,319.8	2,177.0	2,015.1	19.6	14.1	130.35	465.8	518.4	1,174.0	1,145.1	40.649		
2,700.0	2,400.0	2,250.5	2,078.1	20.7	14.3	130.39	492.4	545.5	1,241.8	1,211.6	41.231		
2,800.0	2,480.2	2,324.0	2,141.0	21.8	14.8	130.44	518.9	572.7	1,309.6	1,278.3	41.862		
2,900.0	2,560.4	2,397.5	2,203.9	22.9	15.4	130.47	545.5	599.8	1,377.4	1,344.8	42.327		
3,000.0	2,640.7	2,471.0	2,266.9	24.1	16.1	130.51	572.1	626.9	1,445.2	1,411.4	42.776		
3,100.0	2,720.9	2,544.5	2,329.8	25.2	16.8	130.54	598.6	654.0	1,513.0	1,477.9	43.181		
3,200.0	2,801.1	2,618.0	2,392.7	26.3	17.5	130.57	625.2	681.1	1,580.8	1,544.5	43.550		
3,300.0	2,881.3	2,691.5	2,455.7	27.4	18.2	130.59	651.7	708.3	1,648.6	1,611.0	43.888		
3,400.0	2,961.5	2,765.0	2,518.6	28.6	18.8	130.62	678.3	735.4	1,716.4	1,677.6	44.198		
3,500.0	3,041.7	2,838.5	2,581.6	29.7	19.5	130.64	704.9	762.5	1,784.2	1,744.1	44.482		
3,600.0	3,121.9	2,912.0	2,644.5	30.8	20.2	130.66	731.4	789.6	1,852.0	1,810.6	44.743		
3,700.0	3,202.1	2,985.5	2,707.4	32.0	20.9	130.68	758.0	816.7	1,919.8	1,877.1	44.984		
3,800.0	3,282.3	3,059.0	2,770.4	33.1	21.6	130.70	784.6	843.8	1,987.6	1,943.6	45.206		
3,900.0	3,362.5	3,132.5	2,833.3	34.2	22.2	130.72	811.1	871.0	2,055.4	2,010.2	45.412		
4,000.0	3,442.7	3,206.0	2,896.3	35.4	22.9	130.73	837.7	898.1	2,123.2	2,076.7	45.603		
4,100.0	3,522.9	3,279.5	2,959.2	36.5	23.6	130.75	864.2	925.2	2,191.0	2,143.2	45.781		
4,200.0	3,603.1	3,353.0	3,022.1	37.7	24.3	130.76	890.8	952.3	2,258.8	2,209.7	45.947		
4,300.0	3,683.3	3,426.5	3,085.1	38.8	25.0	130.77	917.4	979.4	2,326.6	2,276.2	46.101		
4,400.0	3,763.5	3,500.0	3,148.0	39.9	25.7	130.79	943.9	1,006.6	2,394.4	2,342.7	46.246		
4,500.0	3,843.7	3,573.5	3,211.0	41.1	26.3	130.80	970.5	1,033.7	2,462.2	2,409.2	46.381		
4,600.0	3,923.9	3,647.0	3,273.9	42.2	27.0	130.81	997.0	1,060.8	2,530.1	2,475.7	46.508		
4,700.0	4,004.1	3,720.5	3,336.8	43.4	27.7	130.82	1,023.6	1,087.9	2,597.9	2,542.1	46.627		
4,800.0	4,084.3	3,794.0	3,399.8	44.5	28.4	130.83	1,050.2	1,115.0	2,665.7	2,608.6	46.740		
4,900.0	4,164.5	3,867.5	3,462.7	45.6	29.1	130.84	1,076.7	1,142.1	2,733.5	2,675.1	46.845		
5,000.0	4,244.7	3,941.0	3,525.6	46.8	29.8	130.85	1,103.3	1,169.3	2,801.3	2,741.6	46.945		
5,100.0	4,324.9	4,014.5	3,588.6	47.9	30.5	130.86	1,129.9	1,196.4	2,869.1	2,808.1	47.039		

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 0993-20-11E - Slot A1
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 0993-20-11E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	KLXDirectional-AD
Reference Design:	Design #2	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	4,405.1	4,088.0	3,651.5	49.1	31.1	130.87	1,156.4	1,223.5	2,936.9	2,874.6	47.128	
5,300.0	4,485.3	4,161.5	3,714.5	50.2	31.8	130.87	1,183.0	1,250.6	3,004.7	2,941.1	47.212	
5,400.0	4,565.5	4,235.0	3,777.4	51.4	32.5	130.88	1,209.5	1,277.7	3,072.5	3,007.5	47.292	
5,500.0	4,645.7	4,308.5	3,840.3	52.5	33.2	130.89	1,236.1	1,304.9	3,140.3	3,074.0	47.367	
5,600.0	4,725.9	4,382.0	3,903.3	53.6	33.9	131.13	1,262.7	1,332.0	3,208.1	3,140.5	47.440	
5,700.0	4,807.8	4,456.8	3,967.3	54.7	34.6	132.74	1,289.7	1,359.5	3,274.5	3,205.6	47.485	
5,800.0	4,892.0	4,533.2	4,032.8	55.8	35.3	134.15	1,317.3	1,387.8	3,338.8	3,268.4	47.487	
5,900.0	4,978.5	4,611.4	4,099.7	56.7	36.0	135.37	1,345.5	1,416.6	3,400.6	3,329.0	47.462	
6,000.0	5,067.2	4,691.0	4,167.9	57.5	36.8	136.42	1,374.3	1,446.0	3,460.0	3,387.1	47.412	
6,100.0	5,157.7	4,772.0	4,237.2	58.3	37.5	137.32	1,403.6	1,475.8	3,516.9	3,442.6	47.339	
6,200.0	5,250.0	4,854.1	4,307.5	59.0	38.3	138.08	1,433.3	1,506.2	3,571.2	3,495.7	47.246	
6,300.0	5,343.9	4,937.3	4,378.8	59.6	39.1	138.72	1,463.3	1,536.8	3,622.9	3,546.0	47.135	
6,400.0	5,439.3	5,021.4	4,450.8	60.1	39.9	139.24	1,493.7	1,567.9	3,671.8	3,593.7	47.009	
6,500.0	5,535.8	5,106.1	4,523.3	60.5	40.7	139.65	1,524.3	1,599.1	3,718.0	3,638.7	46.870	
6,600.0	5,633.4	5,191.5	4,596.4	60.9	41.5	139.96	1,555.2	1,630.6	3,761.5	3,681.0	46.722	
6,700.0	5,731.8	5,277.2	4,669.8	61.2	42.3	140.19	1,586.2	1,662.2	3,802.1	3,720.5	46.565	
6,800.0	5,831.0	5,363.1	4,743.4	61.4	43.1	140.32	1,617.2	1,694.0	3,840.0	3,757.2	46.405	
6,900.0	5,930.6	5,449.1	4,817.0	61.6	43.9	140.38	1,648.3	1,725.7	3,875.1	3,791.3	46.242	
7,000.0	6,030.4	5,535.0	4,890.6	61.6	44.7	140.36	1,679.3	1,757.4	3,907.3	3,822.5	46.085	
7,100.0	6,130.4	5,621.9	4,964.2	61.7	45.5	140.27	1,710.3	1,789.1	3,938.7	3,853.6	45.928	
7,200.0	6,230.4	5,714.9	5,038.4	61.7	46.3	140.17	1,743.3	1,820.9	3,969.7	3,884.5	45.770	
7,300.0	6,330.4	5,811.9	5,113.4	61.7	47.1	140.07	1,777.3	1,852.7	3,999.7	3,915.5	45.612	
7,400.0	6,430.4	5,911.9	5,189.4	61.7	47.9	139.97	1,811.3	1,884.5	4,029.7	3,946.5	45.454	
7,500.0	6,530.4	6,011.9	5,265.4	61.7	48.7	139.87	1,845.3	1,916.3	4,059.7	3,977.5	45.296	
7,600.0	6,630.4	6,111.9	5,341.4	61.7	49.5	139.77	1,879.3	1,948.1	4,089.7	3,998.5	45.138	
7,700.0	6,730.4	6,211.9	5,417.4	61.8	50.3	139.67	1,913.3	1,979.9	4,119.7	4,019.5	44.980	
7,800.0	6,830.4	6,311.9	5,493.4	61.8	51.1	139.57	1,947.3	2,011.7	4,149.7	4,040.5	44.822	
7,900.0	6,930.4	6,411.9	5,569.4	61.8	51.9	139.47	1,981.3	2,043.5	4,179.7	4,061.5	44.664	
8,000.0	7,030.4	6,511.9	5,645.4	61.8	52.7	139.37	2,015.3	2,075.3	4,209.7	4,082.5	44.506	
8,100.0	7,130.4	6,611.9	5,721.4	61.8	53.5	139.27	2,049.3	2,107.1	4,239.7	4,103.5	44.348	
8,200.0	7,230.4	6,711.9	5,797.4	61.8	54.3	139.17	2,083.3	2,138.9	4,269.7	4,124.5	44.190	
8,300.0	7,330.4	6,811.9	5,873.4	61.9	55.1	139.07	2,117.3	2,170.7	4,299.7	4,145.5	44.032	
8,400.0	7,430.4	6,911.9	5,949.4	61.9	55.9	138.97	2,151.3	2,202.5	4,329.7	4,166.5	43.874	
8,500.0	7,530.4	7,011.9	6,025.4	61.9	56.7	138.87	2,185.3	2,234.3	4,359.7	4,187.5	43.716	
8,600.0	7,630.4	7,111.9	6,101.4	61.9	57.5	138.77	2,219.3	2,266.1	4,389.7	4,208.5	43.558	
8,700.0	7,730.4	7,211.9	6,177.4	61.9	58.3	138.67	2,253.3	2,297.9	4,419.7	4,229.5	43.400	
8,800.0	7,830.4	7,311.9	6,253.4	61.9	59.1	138.57	2,287.3	2,329.7	4,449.7	4,250.5	43.242	
8,828.6	7,859.0	7,340.4	6,281.9	61.9	59.3	138.53	2,297.0	2,338.0	4,457.0	4,254.0	43.214	

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 0993-20-11E - Slot A1
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 0993-20-11E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	KLXDirectional-AD
Reference Design:	Design #2	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	-27.4	29.1	40.0				
100.0	100.0	100.0	100.0	0.8	0.8	133.26	-27.4	29.1	40.0	38.4	25.255		
200.0	200.0	200.0	200.0	1.4	1.4	133.26	-27.4	29.1	40.0	37.2	14.141	CC, ES	
300.0	300.0	299.8	299.7	2.5	2.1	152.45	-26.4	30.3	42.2	38.0	10.131		
400.0	399.7	399.2	399.0	4.0	3.6	149.11	-22.7	34.8	48.9	43.0	8.352	SF	
500.0	499.1	497.9	497.2	5.1	4.8	144.81	-16.3	42.6	60.4	53.2	8.446		
600.0	598.0	595.5	593.8	6.1	5.7	140.75	-7.4	53.5	76.8	68.5	9.278		
700.0	696.1	691.7	688.2	6.9	6.6	141.14	4.0	67.3	98.6	89.3	10.574		
800.0	793.3	785.7	779.8	7.6	7.3	140.53	17.5	83.7	126.2	115.8	12.195		
900.0	889.4	877.3	868.1	8.3	8.0	139.61	33.0	102.5	159.4	148.1	14.031		
1,000.0	984.2	965.9	952.6	8.9	8.6	138.64	50.1	123.3	198.2	185.8	16.028		
1,100.0	1,077.6	1,051.4	1,033.0	9.6	9.2	137.67	68.5	145.7	242.2	228.8	18.139		
1,200.0	1,169.4	1,133.5	1,109.1	10.2	9.7	136.71	88.0	169.4	291.1	276.8	20.329		
1,300.0	1,259.4	1,211.9	1,180.8	10.8	10.2	135.74	108.2	193.9	344.9	329.6	22.568		
1,400.0	1,347.4	1,286.6	1,247.9	11.4	10.7	134.75	128.9	219.1	403.0	386.8	24.824		
1,500.0	1,433.3	1,357.7	1,310.9	11.9	11.0	133.71	149.9	244.6	465.3	448.2	27.212		
1,600.0	1,516.9	1,433.2	1,377.3	12.5	11.2	132.75	172.8	272.4	530.8	512.7	29.382		
1,700.0	1,598.0	1,506.6	1,441.8	12.9	11.4	132.12	195.0	299.5	598.7	579.6	31.476		
1,800.0	1,678.2	1,579.1	1,505.5	13.3	11.7	132.55	217.0	326.2	667.5	647.5	33.439		
1,900.0	1,758.4	1,651.6	1,569.2	13.6	11.9	132.90	239.0	352.9	736.3	715.3	35.177		
2,000.0	1,838.6	1,724.1	1,632.9	14.1	12.2	133.19	260.9	379.6	805.1	783.2	36.718		
2,100.0	1,918.8	1,796.6	1,696.6	14.6	12.4	133.44	282.9	406.3	873.9	851.0	38.087		
2,200.0	1,999.0	1,869.0	1,760.3	15.4	12.7	133.65	304.9	433.0	942.8	918.8	39.292		
2,300.0	2,079.2	1,941.5	1,824.0	16.3	13.0	133.83	326.9	459.7	1,011.6	986.6	40.369		
2,400.0	2,159.4	2,014.0	1,887.7	17.4	13.3	133.98	348.9	486.4	1,080.5	1,054.4	41.337		
2,500.0	2,239.6	2,086.5	1,951.4	18.5	13.5	134.12	370.8	513.1	1,149.3	1,122.1	42.201		
2,600.0	2,319.8	2,159.0	2,015.1	19.6	13.8	134.24	392.8	539.8	1,218.2	1,189.9	42.972		
2,700.0	2,400.0	2,231.5	2,078.8	20.7	14.1	134.35	414.8	566.5	1,287.1	1,257.6	43.669		
2,800.0	2,480.2	2,304.0	2,142.5	21.8	14.4	134.45	436.8	593.3	1,355.9	1,325.3	44.306		
2,900.0	2,560.4	2,376.5	2,206.2	22.9	14.8	134.54	458.7	620.0	1,424.8	1,393.1	44.899		
3,000.0	2,640.7	2,448.9	2,269.9	24.1	15.4	134.62	480.7	646.7	1,493.7	1,460.8	45.427		
3,100.0	2,720.9	2,521.4	2,333.6	25.2	16.1	134.70	502.7	673.4	1,562.6	1,528.5	45.894		
3,200.0	2,801.1	2,593.9	2,397.4	26.3	16.7	134.76	524.7	700.1	1,631.4	1,596.2	46.329		
3,300.0	2,881.3	2,666.4	2,461.1	27.4	17.3	134.83	546.7	726.8	1,700.3	1,663.9	46.731		
3,400.0	2,961.5	2,738.9	2,524.8	28.6	17.9	134.88	568.6	753.5	1,769.2	1,731.6	47.099		
3,500.0	3,041.7	2,811.4	2,588.5	29.7	18.5	134.94	590.6	780.2	1,838.1	1,799.3	47.437		
3,600.0	3,121.9	2,883.9	2,652.2	30.8	19.2	134.98	612.6	806.9	1,906.9	1,867.0	47.751		
3,700.0	3,202.1	2,956.4	2,715.9	32.0	19.8	135.03	634.6	833.6	1,975.8	1,934.7	48.042		
3,800.0	3,282.3	3,028.9	2,779.6	33.1	20.4	135.07	656.5	860.3	2,044.7	2,002.4	48.311		
3,900.0	3,362.5	3,101.3	2,843.3	34.2	21.0	135.11	678.5	887.1	2,113.6	2,070.0	48.562		
4,000.0	3,442.7	3,173.8	2,907.0	35.4	21.7	135.15	700.5	913.8	2,182.4	2,137.7	48.795		
4,100.0	3,522.9	3,246.3	2,970.7	36.5	22.3	135.18	722.5	940.5	2,251.3	2,205.4	49.013		
4,200.0	3,603.1	3,318.8	3,034.4	37.7	22.9	135.22	744.5	967.2	2,320.2	2,273.1	49.216		
4,300.0	3,683.3	3,391.3	3,098.1	38.8	23.5	135.25	766.4	993.9	2,389.1	2,340.7	49.407		
4,400.0	3,763.5	3,463.8	3,161.8	39.9	24.2	135.28	788.4	1,020.6	2,458.0	2,408.4	49.585		
4,500.0	3,843.7	3,536.3	3,225.5	41.1	24.8	135.31	810.4	1,047.3	2,526.9	2,476.1	49.753		
4,600.0	3,923.9	3,608.8	3,289.2	42.2	25.4	135.33	832.4	1,074.0	2,595.7	2,543.7	49.911		
4,700.0	4,004.1	3,681.3	3,352.9	43.4	26.0	135.36	854.3	1,100.7	2,664.6	2,611.4	50.059		
4,800.0	4,084.3	3,753.7	3,416.6	44.5	26.7	135.38	876.3	1,127.4	2,733.5	2,679.0	50.199		
4,900.0	4,164.5	3,826.2	3,480.3	45.6	27.3	135.40	898.3	1,154.2	2,802.4	2,746.7	50.331		
5,000.0	4,244.7	3,898.7	3,544.0	46.8	27.9	135.42	920.3	1,180.9	2,871.3	2,814.4	50.456		
5,100.0	4,324.9	3,971.2	3,607.7	47.9	28.5	135.44	942.3	1,207.6	2,940.1	2,882.0	50.574		

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 0993-20-11E - Slot A1
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 0993-20-11E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	KLXDirectional-AD
Reference Design:	Design #2	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	4,405.1	4,043.7	3,671.4	49.1	29.2	135.46	964.2	1,234.3	3,009.0	2,949.7	50.686		
5,300.0	4,485.3	4,116.2	3,735.1	50.2	29.8	135.48	986.2	1,261.0	3,077.9	3,017.3	50.792		
5,400.0	4,565.5	4,188.7	3,798.8	51.4	30.4	135.50	1,008.2	1,287.7	3,146.8	3,085.0	50.893		
5,500.0	4,645.7	4,261.2	3,862.5	52.5	31.1	135.52	1,030.2	1,314.4	3,215.7	3,152.6	50.989		
5,600.0	4,725.9	4,333.7	3,926.3	53.6	31.7	135.76	1,052.2	1,341.1	3,284.5	3,220.2	51.082		
5,700.0	4,807.8	4,407.5	3,991.1	54.7	32.3	137.30	1,074.5	1,368.3	3,352.0	3,286.4	51.137		
5,800.0	4,892.0	4,483.4	4,057.8	55.8	33.0	138.64	1,097.5	1,396.3	3,417.0	3,350.2	51.136		
5,900.0	4,978.5	4,561.1	4,126.1	56.7	33.7	139.79	1,121.1	1,424.9	3,479.5	3,411.4	51.098		
6,000.0	5,067.2	4,640.5	4,195.9	57.5	34.3	140.78	1,145.2	1,454.2	3,539.4	3,470.0	51.027		
6,100.0	5,157.7	4,721.5	4,267.1	58.3	35.1	141.63	1,169.7	1,484.0	3,596.6	3,526.0	50.926		
6,200.0	5,250.0	4,803.9	4,339.5	59.0	35.8	142.34	1,194.7	1,514.4	3,651.0	3,579.1	50.797		
6,300.0	5,343.9	4,887.6	4,413.1	59.6	36.5	142.92	1,220.1	1,545.2	3,702.6	3,629.5	50.644		
6,400.0	5,439.3	4,972.4	4,487.6	60.1	37.2	143.40	1,245.8	1,576.5	3,751.2	3,676.9	50.469		
6,500.0	5,535.8	5,058.1	4,562.9	60.5	38.0	143.77	1,271.8	1,608.1	3,796.9	3,721.4	50.276		
6,600.0	5,633.4	5,144.6	4,638.9	60.9	38.7	144.05	1,298.0	1,639.9	3,839.6	3,762.9	50.068		
6,700.0	5,731.8	5,231.7	4,715.5	61.2	39.5	144.24	1,324.4	1,672.0	3,879.3	3,801.5	49.848		
6,800.0	5,831.0	5,319.3	4,792.4	61.4	40.2	144.35	1,351.0	1,704.3	3,916.0	3,837.1	49.618		
6,900.0	5,930.6	5,407.1	4,869.6	61.6	41.0	144.38	1,377.6	1,736.6	3,949.6	3,869.6	49.384		
7,000.0	6,030.4	5,495.0	4,946.9	61.6	41.8	144.33	1,404.3	1,769.0	3,980.2	3,899.2	49.152		
7,100.0	6,130.4	5,583.3	5,026.2	61.7	42.4	144.26	1,431.5	1,801.4	4,009.3	3,927.9	48.920		
7,200.0	6,230.4	5,672.1	5,107.5	61.7	42.9	144.17	1,459.1	1,834.0	4,037.7	3,955.3	48.688		
7,300.0	6,330.4	5,761.0	5,190.8	61.7	43.3	144.07	1,487.0	1,867.0	4,065.3	3,982.9	48.456		
7,400.0	6,430.4	5,850.0	5,276.1	61.7	43.6	143.96	1,515.1	1,899.9	4,092.6	3,999.6	48.224		
7,500.0	6,530.4	5,939.3	5,363.4	61.7	43.9	143.84	1,543.3	1,932.9	4,119.3	4,016.3	47.992		
7,600.0	6,630.4	6,028.7	5,453.7	61.7	44.2	143.72	1,571.5	1,965.9	4,145.9	4,032.9	47.760		
7,700.0	6,730.4	6,118.0	5,545.0	61.8	44.5	143.60	1,600.0	1,998.9	4,172.6	4,049.6	47.528		
7,800.0	6,830.4	6,207.3	5,637.3	61.8	44.8	143.48	1,628.2	2,031.9	4,199.2	4,066.2	47.296		
7,900.0	6,930.4	6,296.6	5,731.6	61.8	45.1	143.36	1,656.4	2,064.9	4,225.8	4,082.8	47.064		
8,000.0	7,030.4	6,385.9	5,827.9	61.8	45.4	143.24	1,684.6	2,097.9	4,252.4	4,099.4	46.832		
8,100.0	7,130.4	6,475.2	5,926.2	61.8	45.7	143.12	1,712.8	2,130.9	4,279.0	4,116.0	46.600		
8,200.0	7,230.4	6,564.5	6,026.5	61.8	46.0	143.00	1,741.0	2,163.9	4,305.6	4,132.6	46.368		
8,300.0	7,330.4	6,653.8	6,128.8	61.9	46.3	142.88	1,769.2	2,196.9	4,332.2	4,149.2	46.136		
8,400.0	7,430.4	6,743.1	6,233.1	61.9	46.6	142.76	1,797.4	2,229.9	4,358.8	4,165.8	45.904		
8,500.0	7,530.4	6,832.4	6,339.4	61.9	46.9	142.64	1,825.6	2,262.9	4,385.4	4,182.4	45.672		
8,600.0	7,630.4	6,921.7	6,447.7	61.9	47.2	142.52	1,853.8	2,295.9	4,412.0	4,199.0	45.440		
8,700.0	7,730.4	7,011.0	6,558.0	61.9	47.5	142.40	1,882.0	2,328.9	4,438.6	4,215.6	45.208		
8,800.0	7,830.4	7,100.3	6,670.3	61.9	47.8	142.28	1,910.2	2,361.9	4,465.2	4,232.2	44.976		
8,828.6	7,859.0	7,138.9	6,704.9	61.9	47.8	142.26	1,918.8	2,366.0	4,469.3	4,235.3	44.950		

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 0993-20-11E - Slot A1
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 0993-20-11E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	KLXDirectional-AD
Reference Design:	Design #2	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	-34.3	36.4	50.0				
100.0	100.0	100.0	100.0	0.8	0.8	133.26	-34.3	36.4	50.0	48.4	31.563		
200.0	200.0	200.0	200.0	1.4	1.4	133.26	-34.3	36.4	50.0	47.2	17.673	CC, ES	
300.0	300.0	299.7	299.7	2.5	1.7	153.73	-34.0	36.9	52.1	48.1	13.071		
400.0	399.7	398.9	398.8	4.0	3.0	152.36	-31.6	40.4	58.9	53.1	10.260		
500.0	499.1	497.5	497.0	5.1	4.3	149.53	-26.8	47.5	70.6	63.5	9.900	SF	
600.0	598.0	594.9	593.6	6.1	5.3	146.28	-19.8	57.9	87.5	79.2	10.491		
700.0	696.1	690.8	688.1	6.9	6.2	147.03	-10.7	71.5	109.9	100.4	11.637		
800.0	793.3	784.4	779.6	7.6	7.0	146.51	0.3	87.9	138.1	127.6	13.154		
900.0	889.4	875.4	867.7	8.3	7.7	145.53	13.0	106.8	172.1	160.6	14.922		
1,000.0	984.2	963.4	951.9	8.9	8.3	144.43	27.1	127.9	211.9	199.3	16.883		
1,100.0	1,077.6	1,047.9	1,031.9	9.6	8.9	143.32	42.3	150.6	257.1	243.6	18.990		
1,200.0	1,169.4	1,128.8	1,107.4	10.2	9.5	142.23	58.5	174.6	307.5	293.0	21.207		
1,300.0	1,259.4	1,205.8	1,178.3	10.8	10.0	141.14	75.2	199.5	362.8	347.4	23.502		
1,400.0	1,347.4	1,278.8	1,244.6	11.4	10.4	140.05	92.3	225.0	422.7	406.3	25.835		
1,500.0	1,433.3	1,353.4	1,311.5	11.9	10.8	138.96	110.6	252.3	486.5	469.2	28.125		
1,600.0	1,516.9	1,428.0	1,378.4	12.5	11.0	138.07	129.0	279.7	553.2	534.9	30.323		
1,700.0	1,598.0	1,500.1	1,443.1	12.9	11.3	137.47	146.8	306.2	622.4	603.3	32.540		
1,800.0	1,678.2	1,571.3	1,506.9	13.3	11.5	137.82	164.3	332.4	692.6	672.6	34.669		
1,900.0	1,758.4	1,642.5	1,570.8	13.6	11.7	138.11	181.9	358.6	762.7	741.9	36.581		
2,000.0	1,838.6	1,713.7	1,634.6	14.1	12.0	138.35	199.5	384.7	832.9	811.2	38.298		
2,100.0	1,918.8	1,784.9	1,698.4	14.6	12.2	138.55	217.0	410.9	903.1	880.4	39.831		
2,200.0	1,999.0	1,856.1	1,762.3	15.4	12.5	138.72	234.6	437.1	973.3	949.7	41.203		
2,300.0	2,079.2	1,927.3	1,826.1	16.3	12.8	138.87	252.1	463.2	1,043.5	1,018.9	42.441		
2,400.0	2,159.4	1,998.5	1,890.0	17.4	13.0	139.00	269.7	489.4	1,113.7	1,088.1	43.561		
2,500.0	2,239.6	2,069.7	1,953.8	18.5	13.3	139.12	287.3	515.6	1,183.9	1,157.3	44.562		
2,600.0	2,319.8	2,140.9	2,017.7	19.6	13.6	139.22	304.8	541.8	1,254.1	1,226.5	45.473		
2,700.0	2,400.0	2,212.1	2,081.5	20.7	13.9	139.31	322.4	567.9	1,324.3	1,295.7	46.304		
2,800.0	2,480.2	2,283.3	2,145.4	21.8	14.2	139.39	339.9	594.1	1,394.5	1,364.8	47.056		
2,900.0	2,560.4	2,354.5	2,209.2	22.9	14.5	139.46	357.5	620.3	1,464.7	1,434.0	47.738		
3,000.0	2,640.7	2,425.7	2,273.1	24.1	14.8	139.53	375.1	646.4	1,534.9	1,503.1	48.363		
3,100.0	2,720.9	2,496.9	2,336.9	25.2	15.1	139.59	392.6	672.6	1,605.1	1,572.3	48.950		
3,200.0	2,801.1	2,568.1	2,400.7	26.3	15.6	139.65	410.2	698.8	1,675.3	1,641.5	49.507		
3,300.0	2,881.3	2,639.3	2,464.6	27.4	16.1	139.70	427.7	725.0	1,745.5	1,710.6	49.977		
3,400.0	2,961.5	2,710.5	2,528.4	28.6	16.7	139.75	445.3	751.1	1,815.7	1,779.7	50.419		
3,500.0	3,041.7	2,781.7	2,592.3	29.7	17.3	139.79	462.9	777.3	1,885.9	1,848.8	50.836		
3,600.0	3,121.9	2,852.9	2,656.1	30.8	17.8	139.83	480.4	803.5	1,956.1	1,917.9	51.221		
3,700.0	3,202.1	2,924.1	2,720.0	32.0	18.4	139.87	498.0	829.6	2,026.3	1,987.1	51.578		
3,800.0	3,282.3	2,995.3	2,783.8	33.1	19.0	139.91	515.5	855.8	2,096.6	2,056.2	51.910		
3,900.0	3,362.5	3,066.5	2,847.7	34.2	19.5	139.94	533.1	882.0	2,166.8	2,125.3	52.221		
4,000.0	3,442.7	3,137.7	2,911.5	35.4	20.1	139.97	550.7	908.2	2,237.0	2,194.4	52.510		
4,100.0	3,522.9	3,208.9	2,975.4	36.5	20.7	140.00	568.2	934.3	2,307.2	2,263.5	52.780		
4,200.0	3,603.1	3,280.1	3,039.2	37.7	21.3	140.03	585.8	960.5	2,377.4	2,332.6	53.034		
4,300.0	3,683.3	3,351.3	3,103.0	38.8	21.8	140.06	603.3	986.7	2,447.6	2,401.7	53.271		
4,400.0	3,763.5	3,422.5	3,166.9	39.9	22.4	140.08	620.9	1,012.8	2,517.8	2,470.8	53.494		
4,500.0	3,843.7	3,493.7	3,230.7	41.1	23.0	140.10	638.5	1,039.0	2,588.0	2,539.9	53.704		
4,600.0	3,923.9	3,564.9	3,294.6	42.2	23.5	140.13	656.0	1,065.2	2,658.3	2,608.9	53.902		
4,700.0	4,004.1	3,636.1	3,358.4	43.4	24.1	140.15	673.6	1,091.4	2,728.5	2,678.0	54.088		
4,800.0	4,084.3	3,707.3	3,422.3	44.5	24.7	140.17	691.1	1,117.5	2,798.7	2,747.1	54.264		
4,900.0	4,164.5	3,778.5	3,486.1	45.6	25.3	140.19	708.7	1,143.7	2,868.9	2,816.2	54.431		
5,000.0	4,244.7	3,849.7	3,550.0	46.8	25.8	140.20	726.3	1,169.9	2,939.1	2,885.3	54.588		
5,100.0	4,324.9	3,920.9	3,613.8	47.9	26.4	140.22	743.8	1,196.0	3,009.3	2,954.3	54.737		

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 0993-20-11E - Slot A1
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 0993-20-11E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	KLXDirectional-AD
Reference Design:	Design #2	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	4,405.1	3,992.1	3,677.7	49.1	27.0	140.24	761.4	1,222.2	3,079.5	3,023.4	54.878		
5,300.0	4,485.3	4,063.3	3,741.5	50.2	27.6	140.25	778.9	1,248.4	3,149.8	3,092.5	55.012		
5,400.0	4,565.5	4,134.5	3,805.3	51.4	28.1	140.27	796.5	1,274.6	3,220.0	3,161.6	55.140		
5,500.0	4,645.7	4,205.7	3,869.2	52.5	28.7	140.28	814.1	1,300.7	3,290.2	3,230.6	55.261		
5,600.0	4,725.9	4,276.9	3,933.1	53.6	29.3	140.51	831.6	1,326.9	3,360.4	3,299.7	55.378		
5,700.0	4,807.8	4,349.6	3,998.2	54.7	29.9	141.96	849.6	1,353.6	3,429.0	3,367.2	55.447		
5,800.0	4,892.0	4,424.5	4,065.4	55.8	30.5	143.21	868.0	1,381.1	3,495.2	3,432.1	55.443		
5,900.0	4,978.5	4,501.5	4,134.4	56.7	31.1	144.29	887.0	1,409.4	3,558.7	3,494.4	55.393		
6,000.0	5,067.2	4,580.4	4,205.2	57.5	31.7	145.21	906.5	1,438.4	3,619.4	3,553.9	55.300		
6,100.0	5,157.7	4,661.1	4,277.5	58.3	32.4	145.99	926.4	1,468.1	3,677.2	3,610.6	55.168		
6,200.0	5,250.0	4,743.4	4,351.4	59.0	33.1	146.64	946.7	1,498.4	3,732.2	3,664.3	55.001		
6,300.0	5,343.9	4,827.2	4,426.5	59.6	33.7	147.17	967.4	1,529.2	3,784.1	3,715.0	54.802		
6,400.0	5,439.3	4,912.3	4,502.8	60.1	34.4	147.60	988.3	1,560.5	3,832.9	3,762.7	54.575		
6,500.0	5,535.8	4,998.6	4,580.2	60.5	35.1	147.94	1,009.6	1,592.2	3,878.6	3,807.2	54.324		
6,600.0	5,633.4	5,085.8	4,658.4	60.9	35.8	148.18	1,031.1	1,624.2	3,921.1	3,848.6	54.053		
6,700.0	5,731.8	5,173.9	4,737.4	61.2	36.5	148.34	1,052.9	1,656.6	3,960.4	3,886.8	53.764		
6,800.0	5,831.0	5,262.6	4,816.9	61.4	37.3	148.43	1,074.7	1,689.2	3,996.5	3,921.7	53.463		
6,900.0	5,930.6	5,351.8	4,896.9	61.6	38.0	148.44	1,096.7	1,722.0	4,029.2	3,953.4	53.154		
7,000.0	6,030.4	5,441.3	4,977.2	61.6	38.7	148.38	1,118.8	1,754.9	4,058.8	3,981.9	52.846		
7,100.0	6,130.4	5,531.0	5,057.6	61.7	39.4	112.68	1,140.9	1,787.9	4,085.4	4,007.8	52.642		
7,200.0	6,230.4	5,624.5	5,142.4	61.7	40.1	109.65	1,163.2	1,820.2	4,116.5	4,034.5	52.438		
7,300.0	6,330.4	5,718.5	5,227.4	61.7	40.8	109.65	1,185.2	1,852.0	4,146.5	4,060.5	52.234		
7,400.0	6,430.4	5,812.5	5,312.4	61.7	41.5	109.65	1,207.2	1,883.8	4,176.5	4,086.5	52.030		
7,500.0	6,530.4	5,906.5	5,397.4	61.7	42.2	109.65	1,229.2	1,915.6	4,206.5	4,112.5	51.826		
7,600.0	6,630.4	6,000.5	5,482.4	61.7	42.9	109.65	1,251.2	1,947.4	4,236.5	4,138.5	51.622		
7,700.0	6,730.4	6,094.5	5,567.4	61.8	43.6	109.65	1,273.2	1,979.2	4,266.5	4,164.5	51.418		
7,800.0	6,830.4	6,188.5	5,652.4	61.8	44.3	109.65	1,295.2	2,011.0	4,296.5	4,190.5	51.214		
7,900.0	6,930.4	6,282.5	5,737.4	61.8	45.0	109.65	1,317.2	2,042.8	4,326.5	4,216.5	51.010		
8,000.0	7,030.4	6,376.5	5,822.4	61.8	45.7	109.65	1,339.2	2,074.6	4,356.5	4,242.5	50.806		
8,100.0	7,130.4	6,470.5	5,907.4	61.8	46.4	109.65	1,361.2	2,106.4	4,386.5	4,268.5	50.602		
8,200.0	7,230.4	6,564.5	5,992.4	61.8	47.1	109.65	1,383.2	2,138.2	4,416.5	4,294.5	50.398		
8,300.0	7,330.4	6,658.5	6,077.4	61.9	47.8	109.65	1,405.2	2,170.0	4,446.5	4,320.5	50.194		
8,400.0	7,430.4	6,752.5	6,162.4	61.9	48.5	109.65	1,427.2	2,201.8	4,476.5	4,346.5	49.990		
8,500.0	7,530.4	6,846.5	6,247.4	61.9	49.2	109.65	1,449.2	2,233.6	4,506.5	4,372.5	49.786		
8,600.0	7,630.4	6,940.5	6,332.4	61.9	49.9	109.65	1,471.2	2,265.4	4,536.5	4,398.5	49.582		
8,700.0	7,730.4	7,034.5	6,417.4	61.9	50.6	109.65	1,493.2	2,297.2	4,566.5	4,424.5	49.378		
8,800.0	7,830.4	7,128.5	6,502.4	61.9	51.3	109.65	1,515.2	2,329.0	4,596.5	4,450.5	49.174		
8,828.6	7,859.0	7,147.0	6,519.0	61.9	51.5	109.65	1,521.0	2,335.0	4,600.0	4,450.0	49.181		

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 0993-20-11E - Slot A1
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 0993-20-11E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	KLXDirectional-AD
Reference Design:	Design #2	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	133.26	-41.1	43.7	60.0				
100.0	100.0	100.0	100.0	0.8	0.8	133.26	-41.1	43.7	60.0	58.4	37.874		
200.0	200.0	200.0	200.0	1.4	1.4	133.26	-41.1	43.7	60.0	57.2	21.207	CC, ES	
300.0	300.0	300.0	300.0	2.5	1.9	154.14	-41.1	43.7	62.0	57.7	14.648		
400.0	399.7	398.9	398.8	4.0	2.7	154.74	-40.1	45.6	68.5	62.6	11.518		
500.0	499.1	497.1	496.9	5.1	4.1	153.57	-37.2	51.2	80.4	73.0	10.855	SF	
600.0	598.0	594.3	593.5	6.1	5.2	151.43	-32.5	60.5	97.5	88.9	11.279		
700.0	696.1	689.8	688.0	6.9	6.0	152.83	-26.0	73.1	120.3	110.5	12.315		
800.0	793.3	783.1	779.5	7.6	6.8	152.64	-17.9	88.8	149.1	138.2	13.754		
900.0	889.4	873.6	867.6	8.3	7.5	151.78	-8.5	107.2	183.8	171.9	15.469		
1,000.0	984.2	960.8	951.7	8.9	8.2	150.69	2.1	127.9	224.4	211.5	17.404		
1,100.0	1,077.6	1,044.4	1,031.4	9.6	8.7	149.55	13.6	150.3	270.7	256.8	19.514		
1,200.0	1,169.4	1,124.1	1,106.5	10.2	9.3	148.40	25.8	174.1	322.4	307.6	21.764		
1,300.0	1,259.4	1,200.0	1,177.0	10.8	9.7	147.26	38.6	198.9	379.1	363.4	24.118		
1,400.0	1,347.4	1,271.0	1,242.3	11.4	10.1	146.13	51.4	224.0	440.6	424.1	26.650		
1,500.0	1,433.3	1,345.3	1,309.8	11.9	10.3	145.01	65.5	251.4	506.0	488.7	29.135		
1,600.0	1,516.9	1,418.3	1,376.2	12.5	10.6	144.08	79.4	278.4	574.4	556.1	31.519		
1,700.0	1,598.0	1,488.7	1,440.2	12.9	10.8	143.41	92.7	304.4	645.4	626.3	33.908		
1,800.0	1,678.2	1,558.1	1,503.3	13.3	11.0	143.58	105.9	330.1	717.4	697.6	36.248		
1,900.0	1,758.4	1,627.5	1,566.5	13.6	11.2	143.73	119.1	355.7	789.3	768.8	38.372		
2,000.0	1,838.6	1,696.9	1,629.6	14.1	11.5	143.85	132.3	381.4	861.3	840.0	40.295		
2,100.0	1,918.8	1,766.3	1,692.7	14.6	11.7	143.95	145.4	407.0	933.3	911.1	42.024		
2,200.0	1,999.0	1,835.7	1,755.8	15.4	12.0	144.04	158.6	432.7	1,005.3	982.3	43.594		
2,300.0	2,079.2	1,905.1	1,818.9	16.3	12.2	144.11	171.8	458.3	1,077.3	1,053.4	45.021		
2,400.0	2,159.4	1,974.4	1,882.1	17.4	12.5	144.18	184.9	484.0	1,149.3	1,124.5	46.309		
2,500.0	2,239.6	2,043.8	1,945.2	18.5	12.8	144.24	198.1	509.6	1,221.3	1,195.6	47.483		
2,600.0	2,319.8	2,113.2	2,008.3	19.6	13.0	144.29	211.3	535.3	1,293.3	1,266.7	48.556		
2,700.0	2,400.0	2,182.6	2,071.4	20.7	13.3	144.34	224.4	560.9	1,365.3	1,337.8	49.532		
2,800.0	2,480.2	2,252.0	2,134.5	21.8	13.6	144.38	237.6	586.6	1,437.3	1,408.8	50.424		
2,900.0	2,560.4	2,321.4	2,197.6	22.9	13.9	144.42	250.8	612.3	1,509.3	1,479.9	51.244		
3,000.0	2,640.7	2,390.8	2,260.8	24.1	14.2	144.45	264.0	637.9	1,581.3	1,550.9	51.999		
3,100.0	2,720.9	2,460.2	2,323.9	25.2	14.5	144.48	277.1	663.6	1,653.3	1,621.9	52.687		
3,200.0	2,801.1	2,529.6	2,387.0	26.3	14.8	144.51	290.3	689.2	1,725.3	1,693.0	53.324		
3,300.0	2,881.3	2,599.0	2,450.1	27.4	15.1	144.54	303.5	714.9	1,797.3	1,764.0	53.922		
3,400.0	2,961.5	2,668.4	2,513.2	28.6	15.6	144.56	316.6	740.5	1,869.3	1,835.0	54.444		
3,500.0	3,041.7	2,737.8	2,576.4	29.7	16.0	144.58	329.8	766.2	1,941.3	1,906.0	54.990		
3,600.0	3,121.9	2,807.2	2,639.5	30.8	16.6	144.60	343.0	791.8	2,013.3	1,977.0	55.447		
3,700.0	3,202.1	2,876.6	2,702.6	32.0	17.1	144.62	356.2	817.5	2,085.3	2,048.0	55.886		
3,800.0	3,282.3	2,946.0	2,765.7	33.1	17.6	144.64	369.3	843.1	2,157.3	2,119.0	56.294		
3,900.0	3,362.5	3,015.4	2,828.8	34.2	18.1	144.66	382.5	868.8	2,229.3	2,190.0	56.673		
4,000.0	3,442.7	3,084.7	2,892.0	35.4	18.6	144.67	395.7	894.4	2,301.3	2,261.0	57.030		
4,100.0	3,522.9	3,154.1	2,955.1	36.5	19.2	144.69	408.8	920.1	2,373.3	2,332.0	57.364		
4,200.0	3,603.1	3,223.5	3,018.2	37.7	19.7	144.70	422.0	945.7	2,445.3	2,402.9	57.676		
4,300.0	3,683.3	3,292.9	3,081.3	38.8	20.2	144.72	435.2	971.4	2,517.3	2,473.9	57.970		
4,400.0	3,763.5	3,362.3	3,144.4	39.9	20.7	144.73	448.3	997.0	2,589.3	2,544.9	58.246		
4,500.0	3,843.7	3,431.7	3,207.5	41.1	21.3	144.74	461.5	1,022.7	2,661.4	2,615.9	58.507		
4,600.0	3,923.9	3,501.1	3,270.7	42.2	21.8	144.75	474.7	1,048.3	2,733.4	2,686.8	58.752		
4,700.0	4,004.1	3,570.5	3,333.8	43.4	22.3	144.76	487.9	1,074.0	2,805.4	2,757.8	58.983		
4,800.0	4,084.3	3,639.9	3,396.9	44.5	22.8	144.77	501.0	1,099.7	2,877.4	2,828.8	59.202		
4,900.0	4,164.5	3,709.3	3,460.0	45.6	23.4	144.78	514.2	1,125.3	2,949.4	2,899.7	59.409		
5,000.0	4,244.7	3,778.7	3,523.1	46.8	23.9	144.79	527.4	1,151.0	3,021.4	2,970.7	59.605		
5,100.0	4,324.9	3,848.1	3,586.3	47.9	24.4	144.80	540.5	1,176.6	3,093.4	3,041.6	59.791		

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 0993-20-11E - Slot A1
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 0993-20-11E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	KLXDirectional-AD
Reference Design:	Design #2	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	4,405.1	3,917.5	3,649.4	49.1	25.0	144.81	553.7	1,202.3	3,165.4	3,112.6	59.967		
5,300.0	4,485.3	3,986.9	3,712.5	50.2	25.5	144.82	566.9	1,227.9	3,237.4	3,183.5	60.134		
5,400.0	4,565.5	4,056.3	3,775.6	51.4	26.0	144.82	580.1	1,253.6	3,309.4	3,254.5	60.294		
5,500.0	4,645.7	4,125.7	3,838.7	52.5	26.5	144.83	593.2	1,279.2	3,381.4	3,325.4	60.445		
5,600.0	4,725.9	4,195.1	3,901.9	53.6	27.1	145.04	606.4	1,304.9	3,453.4	3,396.4	60.591		
5,700.0	4,807.8	4,266.1	3,966.5	54.7	27.6	146.40	619.9	1,331.1	3,523.8	3,465.7	60.677		
5,800.0	4,892.0	4,339.5	4,033.2	55.8	28.2	147.58	633.8	1,358.3	3,591.5	3,532.3	60.672		
5,900.0	4,978.5	4,415.2	4,102.1	56.7	28.7	148.58	648.2	1,386.3	3,656.6	3,596.2	60.609		
6,000.0	5,067.2	4,493.1	4,172.9	57.5	29.3	149.44	663.0	1,415.0	3,718.7	3,657.3	60.494		
6,100.0	5,157.7	4,572.9	4,245.5	58.3	29.9	150.16	678.1	1,444.6	3,777.9	3,715.3	60.330		
6,200.0	5,250.0	4,654.6	4,319.8	59.0	30.6	150.76	693.6	1,474.8	3,834.1	3,770.3	60.122		
6,300.0	5,343.9	4,738.0	4,395.7	59.6	31.2	151.25	709.4	1,505.6	3,887.1	3,822.2	59.875		
6,400.0	5,439.3	4,822.9	4,472.9	60.1	31.9	151.65	725.5	1,537.0	3,936.9	3,870.9	59.594		
6,500.0	5,535.8	4,909.1	4,551.4	60.5	32.5	151.95	741.9	1,568.8	3,983.5	3,916.3	59.283		
6,600.0	5,633.4	4,996.6	4,630.9	60.9	33.2	152.18	758.5	1,601.2	4,026.7	3,958.4	58.946		
6,700.0	5,731.8	5,085.1	4,711.4	61.2	33.9	152.32	775.3	1,633.9	4,066.5	3,997.1	58.588		
6,800.0	5,831.0	5,174.5	4,792.7	61.4	34.5	152.40	792.3	1,666.9	4,102.9	4,032.4	58.213		
6,900.0	5,930.6	5,264.5	4,874.6	61.6	35.2	152.41	809.4	1,700.2	4,135.9	4,064.4	57.829		
7,000.0	6,030.4	5,355.1	4,957.0	61.6	35.9	152.35	826.6	1,733.7	4,165.4	4,092.9	57.445		
7,100.0	6,130.4	5,446.0	5,039.7	61.7	36.6	116.68	843.8	1,767.3	4,191.8	4,118.5	57.196		
7,200.0	6,230.4	5,537.9	5,123.4	61.7	37.3	113.77	861.3	1,801.1	4,218.5	4,144.6	56.947		
7,300.0	6,330.4	5,630.8	5,209.1	61.7	38.0	113.77	879.3	1,835.1	4,245.3	4,171.3	56.700		
7,400.0	6,430.4	5,724.7	5,294.8	61.7	38.7	113.77	897.3	1,869.1	4,272.1	4,198.0	56.455		
7,500.0	6,530.4	5,818.6	5,380.5	61.7	39.4	113.77	915.3	1,903.1	4,298.9	4,224.8	56.210		
7,600.0	6,630.4	5,912.5	5,466.2	61.7	40.1	113.77	933.3	1,937.1	4,325.7	4,251.5	55.965		
7,700.0	6,730.4	6,006.4	5,551.9	61.8	40.8	113.77	951.3	1,971.1	4,352.5	4,278.2	55.720		
7,800.0	6,830.4	6,100.3	5,637.6	61.8	41.5	113.77	969.3	2,005.1	4,379.0	4,304.7	55.475		
7,900.0	6,930.4	6,194.2	5,723.3	61.8	42.2	113.77	987.3	2,039.1	4,405.5	4,330.9	55.230		
8,000.0	7,030.4	6,288.1	5,809.0	61.8	42.9	113.77	1,005.3	2,073.1	4,432.0	4,357.1	54.985		
8,100.0	7,130.4	6,381.9	5,894.7	61.8	43.6	113.77	1,023.3	2,107.1	4,458.5	4,383.3	54.740		
8,200.0	7,230.4	6,475.8	5,980.4	61.8	44.3	113.77	1,041.3	2,141.1	4,485.0	4,409.5	54.495		
8,300.0	7,330.4	6,569.7	6,066.1	61.9	45.0	113.77	1,059.3	2,175.1	4,511.5	4,435.7	54.250		
8,400.0	7,430.4	6,663.6	6,151.8	61.9	45.7	113.77	1,077.3	2,209.1	4,538.0	4,461.9	54.005		
8,500.0	7,530.4	6,757.5	6,237.5	61.9	46.4	113.77	1,095.3	2,243.1	4,564.5	4,488.1	53.760		
8,600.0	7,630.4	6,851.4	6,323.2	61.9	47.1	113.77	1,113.3	2,277.1	4,591.0	4,514.3	53.515		
8,700.0	7,730.4	6,945.3	6,408.9	61.9	47.8	113.77	1,131.3	2,311.1	4,617.5	4,540.5	53.270		
8,800.0	7,830.4	7,039.2	6,494.6	61.9	48.5	113.77	1,149.3	2,345.1	4,644.0	4,566.7	53.025		
8,828.6	7,859.0	7,074.1	6,523.3	61.9	48.8	113.77	1,156.3	2,353.1	4,651.0	4,569.7	53.000		

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 0993-20-11E - Slot A1
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 0993-20-11E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	KLXDirectional-AD
Reference Design:	Design #2	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	-48.0	51.0	70.0				
100.0	100.0	100.0	100.0	0.8	0.8	133.26	-48.0	51.0	70.0	68.4	44.186		
200.0	200.0	200.0	200.0	1.4	1.4	133.26	-48.0	51.0	70.0	67.2	24.741	CC, ES	
300.0	300.0	299.3	299.3	2.5	1.7	153.64	-47.8	51.5	72.2	68.2	18.116		
400.0	399.7	397.5	397.4	4.0	2.9	152.90	-46.4	55.4	80.0	74.1	13.533		
500.0	499.1	494.8	494.3	5.1	4.3	151.16	-43.6	63.3	93.6	86.1	12.434	SF	
600.0	598.0	590.6	589.4	6.1	5.3	149.03	-39.5	74.8	113.2	104.3	12.702		
700.0	696.1	684.4	681.8	6.9	6.2	150.81	-34.2	89.7	138.8	128.7	13.694		
800.0	793.3	775.5	771.0	7.6	6.9	151.15	-27.9	107.5	170.8	159.5	15.143		
900.0	889.4	863.4	856.1	8.3	7.6	150.85	-20.6	127.9	209.1	196.7	16.900		
1,000.0	984.2	947.7	936.9	8.9	8.2	150.26	-12.7	150.3	253.4	239.9	18.899		
1,100.0	1,077.6	1,027.9	1,013.0	9.6	8.8	149.54	-4.2	174.2	303.4	289.0	21.093		
1,200.0	1,169.4	1,103.8	1,084.2	10.2	9.3	148.75	4.7	199.1	358.8	343.5	23.455		
1,300.0	1,259.4	1,177.7	1,152.6	10.8	9.5	147.89	14.0	225.4	419.2	403.2	26.128		
1,400.0	1,347.4	1,254.5	1,223.5	11.4	9.8	147.14	23.9	253.3	483.2	466.4	28.673		
1,500.0	1,433.3	1,328.8	1,292.0	11.9	10.0	146.55	33.5	280.2	550.2	532.5	31.140		
1,600.0	1,516.9	1,400.3	1,358.1	12.5	10.2	146.03	42.7	306.2	620.0	601.5	33.540		
1,700.0	1,598.0	1,469.1	1,421.6	12.9	10.4	145.66	51.6	331.1	692.5	673.2	35.960		
1,800.0	1,678.2	1,536.9	1,484.1	13.3	10.7	146.05	60.3	355.7	766.0	746.0	38.374		
1,900.0	1,758.4	1,604.6	1,546.6	13.6	10.9	146.38	69.0	380.3	839.5	818.8	40.587		
2,000.0	1,838.6	1,672.3	1,609.1	14.1	11.2	146.65	77.8	404.9	913.0	891.5	42.600		
2,100.0	1,918.8	1,740.1	1,671.6	14.6	11.4	146.88	86.5	429.4	986.5	964.3	44.442		
2,200.0	1,999.0	1,807.8	1,734.2	15.4	11.7	147.08	95.2	454.0	1,060.0	1,037.0	46.130		
2,300.0	2,079.2	1,875.6	1,796.7	16.3	11.9	147.26	104.0	478.6	1,133.6	1,109.8	47.670		
2,400.0	2,159.4	1,943.3	1,859.2	17.4	12.2	147.41	112.7	503.2	1,207.1	1,182.5	49.082		
2,500.0	2,239.6	2,011.0	1,921.7	18.5	12.5	147.55	121.4	527.8	1,280.6	1,255.2	50.381		
2,600.0	2,319.8	2,078.8	1,984.2	19.6	12.8	147.67	130.2	552.3	1,354.2	1,327.9	51.572		
2,700.0	2,400.0	2,146.5	2,046.7	20.7	13.0	147.77	138.9	576.9	1,427.7	1,400.6	52.668		
2,800.0	2,480.2	2,214.2	2,109.2	21.8	13.3	147.87	147.6	601.5	1,501.3	1,473.3	53.681		
2,900.0	2,560.4	2,282.0	2,171.7	22.9	13.6	147.96	156.4	626.1	1,574.8	1,546.0	54.615		
3,000.0	2,640.7	2,349.7	2,234.3	24.1	13.9	148.04	165.1	650.6	1,648.3	1,618.6	55.478		
3,100.0	2,720.9	2,417.4	2,296.8	25.2	14.2	148.12	173.8	675.2	1,721.9	1,691.3	56.280		
3,200.0	2,801.1	2,485.2	2,359.3	26.3	14.5	148.18	182.6	699.8	1,795.4	1,764.0	57.023		
3,300.0	2,881.3	2,552.9	2,421.8	27.4	14.8	148.25	191.3	724.4	1,869.0	1,836.6	57.712		
3,400.0	2,961.5	2,620.7	2,484.3	28.6	15.1	148.30	200.0	748.9	1,942.6	1,909.3	58.356		
3,500.0	3,041.7	2,688.4	2,546.8	29.7	15.4	148.36	208.8	773.5	2,016.1	1,981.9	58.957		
3,600.0	3,121.9	2,756.1	2,609.3	30.8	15.8	148.41	217.5	798.1	2,089.7	2,054.6	59.512		
3,700.0	3,202.1	2,823.9	2,671.9	32.0	16.2	148.45	226.2	822.7	2,163.2	2,127.2	60.027		
3,800.0	3,282.3	2,891.6	2,734.4	33.1	16.7	148.50	235.0	847.2	2,236.8	2,199.8	60.540		
3,900.0	3,362.5	2,959.3	2,796.9	34.2	17.2	148.54	243.7	871.8	2,310.3	2,272.5	61.001		
4,000.0	3,442.7	3,027.1	2,859.4	35.4	17.6	148.57	252.4	896.4	2,383.9	2,345.1	61.429		
4,100.0	3,522.9	3,094.8	2,921.9	36.5	18.1	148.61	261.2	921.0	2,457.4	2,417.7	61.834		
4,200.0	3,603.1	3,162.6	2,984.4	37.7	18.6	148.64	269.9	945.5	2,531.0	2,490.3	62.218		
4,300.0	3,683.3	3,230.3	3,046.9	38.8	19.1	148.68	278.6	970.1	2,604.6	2,562.9	62.578		
4,400.0	3,763.5	3,298.0	3,109.5	39.9	19.5	148.71	287.4	994.7	2,678.1	2,635.6	62.918		
4,500.0	3,843.7	3,365.8	3,172.0	41.1	20.0	148.73	296.1	1,019.3	2,751.7	2,708.2	63.240		
4,600.0	3,923.9	3,433.5	3,234.5	42.2	20.5	148.76	304.8	1,043.9	2,825.2	2,780.8	63.545		
4,700.0	4,004.1	3,501.2	3,297.0	43.4	21.0	148.79	313.6	1,068.4	2,898.8	2,853.4	63.833		
4,800.0	4,084.3	3,569.0	3,359.5	44.5	21.5	148.81	322.3	1,093.0	2,972.4	2,926.0	64.106		
4,900.0	4,164.5	3,636.7	3,422.0	45.6	21.9	148.83	331.0	1,117.6	3,045.9	2,998.6	64.365		
5,000.0	4,244.7	3,704.4	3,484.5	46.8	22.4	148.86	339.8	1,142.2	3,119.5	3,071.2	64.611		
5,100.0	4,324.9	3,772.2	3,547.1	47.9	22.9	148.88	348.5	1,166.7	3,193.0	3,143.8	64.845		

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 0993-20-11E - Slot A1
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 0993-20-11E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	KLXDirectional-AD
Reference Design:	Design #2	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	4,405.1	3,839.9	3,609.6	49.1	23.4	148.90	357.2	1,191.3	3,266.6	3,216.4	65.068		
5,300.0	4,485.3	3,907.7	3,672.1	50.2	23.9	148.92	366.0	1,215.9	3,340.2	3,289.0	65.280		
5,400.0	4,565.5	3,975.4	3,734.6	51.4	24.3	148.93	374.7	1,240.5	3,413.7	3,361.6	65.481		
5,500.0	4,645.7	4,043.1	3,797.1	52.5	24.8	148.95	383.4	1,265.0	3,487.3	3,434.2	65.674		
5,600.0	4,725.9	4,110.9	3,859.6	53.6	25.3	149.16	392.2	1,289.6	3,560.8	3,506.8	65.860		
5,700.0	4,807.8	4,180.4	3,923.8	54.7	25.8	150.44	401.1	1,314.8	3,632.7	3,577.7	65.974		
5,800.0	4,892.0	4,252.4	3,990.3	55.8	26.3	151.54	410.4	1,341.0	3,702.0	3,645.9	65.977		
5,900.0	4,978.5	4,327.0	4,059.1	56.7	26.8	152.48	420.0	1,368.0	3,768.4	3,711.2	65.911		
6,000.0	5,067.2	4,403.9	4,130.1	57.5	27.4	153.28	429.9	1,395.9	3,831.9	3,773.6	65.782		
6,100.0	5,157.7	4,483.0	4,203.1	58.3	27.9	153.95	440.1	1,424.7	3,892.3	3,833.0	65.595		
6,200.0	5,250.0	4,564.2	4,278.0	59.0	28.5	154.51	450.6	1,454.1	3,949.6	3,889.2	65.356		
6,300.0	5,343.9	4,647.3	4,354.7	59.6	29.1	154.98	461.3	1,484.2	4,003.7	3,942.2	65.069		
6,400.0	5,439.3	4,732.1	4,432.9	60.1	29.7	155.35	472.2	1,515.0	4,054.5	3,991.9	64.741		
6,500.0	5,535.8	4,818.4	4,512.6	60.5	30.3	155.64	483.4	1,546.3	4,101.9	4,038.1	64.376		
6,600.0	5,633.4	4,906.2	4,593.6	60.9	30.9	155.85	494.7	1,578.2	4,145.8	4,081.0	63.979		
6,700.0	5,731.8	4,995.2	4,675.8	61.2	31.6	155.99	506.2	1,610.5	4,186.2	4,120.3	63.557		
6,800.0	5,831.0	5,085.3	4,758.9	61.4	32.2	156.07	517.8	1,643.2	4,223.0	4,156.1	63.115		
6,900.0	5,930.6	5,176.3	4,842.9	61.6	32.9	156.08	529.5	1,676.2	4,256.3	4,188.3	62.660		
7,000.0	6,030.4	5,268.0	4,927.5	61.6	33.5	156.04	541.3	1,709.4	4,285.9	4,217.0	62.207		
7,100.0	6,130.4	5,360.2	5,012.6	61.7	34.2	120.40	553.2	1,742.9	4,312.3	4,242.6	61.922		
7,200.0	6,230.4	5,452.5	5,097.8	61.7	34.8	120.03	565.1	1,776.4	4,338.3	4,267.9	61.677		
7,300.0	6,330.4	6,719.8	6,330.4	61.7	39.3	117.69	643.1	1,995.9	4,342.4	4,261.9	53.915		
7,400.0	6,430.4	6,819.8	6,430.4	61.7	39.3	117.69	643.1	1,995.9	4,342.4	4,261.8	53.886		
7,500.0	6,530.4	6,919.8	6,530.4	61.7	39.3	117.69	643.1	1,995.9	4,342.4	4,261.8	53.856		
7,600.0	6,630.4	7,019.8	6,630.4	61.7	39.4	117.69	643.1	1,995.9	4,342.4	4,261.8	53.826		
7,700.0	6,730.4	7,119.8	6,730.4	61.8	39.4	117.69	643.1	1,995.9	4,342.4	4,261.7	53.796		
7,800.0	6,830.4	7,219.8	6,830.4	61.8	39.4	117.69	643.1	1,995.9	4,342.4	4,261.7	53.766		
7,900.0	6,930.4	7,319.8	6,930.4	61.8	39.4	117.69	643.1	1,995.9	4,342.4	4,261.6	53.735		
8,000.0	7,030.4	7,419.8	7,030.4	61.8	39.5	117.69	643.1	1,995.9	4,342.4	4,261.6	53.705		
8,100.0	7,130.4	7,519.8	7,130.4	61.8	39.5	117.69	643.1	1,995.9	4,342.4	4,261.5	53.674		
8,200.0	7,230.4	7,619.8	7,230.4	61.8	39.5	117.69	643.1	1,995.9	4,342.4	4,261.5	53.643		
8,300.0	7,330.4	7,719.8	7,330.4	61.9	39.6	117.69	643.1	1,995.9	4,342.4	4,261.4	53.612		
8,400.0	7,430.4	7,819.8	7,430.4	61.9	39.6	117.69	643.1	1,995.9	4,342.4	4,261.4	53.581		
8,500.0	7,530.4	7,919.8	7,530.4	61.9	39.6	117.69	643.1	1,995.9	4,342.4	4,261.3	53.549		
8,600.0	7,630.4	8,019.8	7,630.4	61.9	39.6	117.69	643.1	1,995.9	4,342.4	4,261.3	53.518		
8,700.0	7,730.4	8,119.8	7,730.4	61.9	39.7	117.69	643.1	1,995.9	4,342.4	4,261.2	53.486		
8,800.0	7,830.4	8,219.8	7,830.4	61.9	39.7	117.69	643.1	1,995.9	4,342.4	4,261.2	53.454		
8,828.6	7,859.0	8,248.3	7,859.0	61.9	39.7	117.69	643.1	1,995.9	4,342.4	4,261.2	53.447		

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 0993-20-11E - Slot A1
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 0993-20-11E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	KLXDirectional-AD
Reference Design:	Design #2	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	-54.8	58.2	80.0				
100.0	100.0	100.0	100.0	0.8	0.8	133.27	-54.8	58.2	80.0	78.4	50.493		
200.0	200.0	200.0	200.0	1.4	1.4	133.27	-54.8	58.2	80.0	77.2	28.272	CC, ES	
300.0	300.0	299.5	299.5	2.5	1.7	153.85	-54.8	58.4	82.0	78.0	20.224		
400.0	399.7	397.1	397.1	4.0	2.7	153.91	-54.1	61.4	89.7	83.7	14.969		
500.0	499.1	493.9	493.5	5.1	4.1	153.01	-52.6	68.5	103.6	95.9	13.412	SF	
600.0	598.0	589.1	588.1	6.1	5.1	151.58	-50.3	79.3	123.7	114.5	13.482		
700.0	696.1	682.1	680.0	6.9	6.0	153.92	-47.2	93.5	150.2	139.7	14.372		
800.0	793.3	772.3	768.4	7.6	6.8	154.68	-43.5	110.8	183.2	171.6	15.763		
900.0	889.4	859.1	852.8	8.3	7.5	154.68	-39.2	130.6	222.7	209.9	17.490		
1,000.0	984.2	942.0	932.6	8.9	8.1	154.31	-34.5	152.5	268.3	254.5	19.483		
1,100.0	1,077.6	1,020.6	1,007.6	9.6	8.6	153.75	-29.5	175.8	319.8	305.0	21.693		
1,200.0	1,169.4	1,094.8	1,077.4	10.2	9.1	153.09	-24.3	200.1	376.8	361.1	24.080		
1,300.0	1,259.4	1,166.7	1,144.4	10.8	9.4	152.34	-18.8	225.6	438.9	422.5	26.832		
1,400.0	1,347.4	1,242.0	1,214.3	11.4	9.6	151.65	-12.9	252.9	504.6	487.5	29.471		
1,500.0	1,433.3	1,314.6	1,281.7	11.9	9.8	151.09	-7.2	279.3	573.4	555.5	32.052		
1,600.0	1,516.9	1,384.3	1,346.5	12.5	10.0	150.58	-1.8	304.6	645.0	626.4	34.576		
1,700.0	1,598.0	1,451.1	1,408.5	12.9	10.2	150.19	3.4	328.9	719.4	700.0	37.149		
1,800.0	1,678.2	1,516.9	1,469.5	13.3	10.5	150.46	8.6	352.7	794.7	774.7	39.736		
1,900.0	1,758.4	1,582.6	1,530.6	13.6	10.7	150.69	13.7	376.5	870.0	849.4	42.120		
2,000.0	1,838.6	1,648.3	1,591.6	14.1	10.9	150.88	18.8	400.4	945.4	924.1	44.314		
2,100.0	1,918.8	1,714.0	1,652.6	14.6	11.2	151.05	24.0	424.2	1,020.8	998.7	46.338		
2,200.0	1,999.0	1,779.7	1,713.6	15.4	11.4	151.19	29.1	448.1	1,096.1	1,073.4	48.199		
2,300.0	2,079.2	1,845.4	1,774.6	16.3	11.7	151.31	34.2	471.9	1,171.5	1,148.0	49.913		
2,400.0	2,159.4	1,911.1	1,835.7	17.4	11.9	151.42	39.4	495.8	1,246.8	1,222.6	51.498		
2,500.0	2,239.6	1,976.9	1,896.7	18.5	12.2	151.51	44.5	519.6	1,322.2	1,297.2	52.958		
2,600.0	2,319.8	2,042.6	1,957.7	19.6	12.5	151.60	49.6	543.5	1,397.6	1,371.8	54.308		
2,700.0	2,400.0	2,108.3	2,018.7	20.7	12.7	151.68	54.8	567.3	1,472.9	1,446.4	55.559		
2,800.0	2,480.2	2,174.0	2,079.7	21.8	13.0	151.75	59.9	591.2	1,548.3	1,521.0	56.716		
2,900.0	2,560.4	2,239.7	2,140.7	22.9	13.3	151.81	65.0	615.0	1,623.7	1,595.6	57.789		
3,000.0	2,640.7	2,305.4	2,201.8	24.1	13.6	151.87	70.2	638.9	1,699.0	1,670.1	58.789		
3,100.0	2,720.9	2,371.1	2,262.8	25.2	13.8	151.92	75.3	662.7	1,774.4	1,744.7	59.716		
3,200.0	2,801.1	2,436.9	2,323.8	26.3	14.1	151.97	80.4	686.6	1,849.8	1,819.2	60.580		
3,300.0	2,881.3	2,502.6	2,384.8	27.4	14.4	152.01	85.6	710.4	1,925.1	1,893.8	61.388		
3,400.0	2,961.5	2,568.3	2,445.8	28.6	14.7	152.05	90.7	734.3	2,000.5	1,968.3	62.140		
3,500.0	3,041.7	2,634.0	2,506.9	29.7	15.0	152.09	95.8	758.1	2,075.9	2,042.9	62.844		
3,600.0	3,121.9	2,699.7	2,567.9	30.8	15.3	152.13	101.0	782.0	2,151.3	2,117.4	63.506		
3,700.0	3,202.1	2,765.4	2,628.9	32.0	15.6	152.16	106.1	805.8	2,226.6	2,191.9	64.123		
3,800.0	3,282.3	2,831.1	2,689.9	33.1	16.0	152.19	111.2	829.7	2,302.0	2,266.4	64.703		
3,900.0	3,362.5	2,896.9	2,750.9	34.2	16.3	152.22	116.4	853.5	2,377.4	2,340.9	65.251		
4,000.0	3,442.7	2,962.6	2,811.9	35.4	16.7	152.25	121.5	877.4	2,452.8	2,415.5	65.762		
4,100.0	3,522.9	3,028.3	2,873.0	36.5	17.2	152.27	126.6	901.2	2,528.1	2,490.0	66.244		
4,200.0	3,603.1	3,094.0	2,934.0	37.7	17.6	152.29	131.8	925.0	2,603.5	2,564.5	66.704		
4,300.0	3,683.3	3,159.7	2,995.0	38.8	18.0	152.32	136.9	948.9	2,678.9	2,639.0	67.152		
4,400.0	3,763.5	3,225.4	3,056.0	39.9	18.5	152.34	142.0	972.7	2,754.2	2,713.5	67.546		
4,500.0	3,843.7	3,291.1	3,117.0	41.1	18.9	152.36	147.2	996.6	2,829.6	2,788.0	67.931		
4,600.0	3,923.9	3,356.8	3,178.1	42.2	19.4	152.38	152.3	1,020.4	2,905.0	2,862.5	68.296		
4,700.0	4,004.1	3,422.6	3,239.1	43.4	19.8	152.40	157.4	1,044.3	2,980.4	2,937.0	68.642		
4,800.0	4,084.3	3,488.3	3,300.1	44.5	20.3	152.41	162.6	1,068.1	3,055.7	3,011.4	68.970		
4,900.0	4,164.5	3,554.0	3,361.1	45.6	20.7	152.43	167.7	1,092.0	3,131.1	3,085.9	69.282		
5,000.0	4,244.7	3,619.7	3,422.1	46.8	21.2	152.45	172.8	1,115.8	3,206.5	3,160.4	69.579		
5,100.0	4,324.9	3,685.4	3,483.1	47.9	21.6	152.46	178.0	1,139.7	3,281.9	3,234.9	69.861		

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 0993-20-11E - Slot A1
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 0993-20-11E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	KLXDirectional-AD
Reference Design:	Design #2	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	4,405.1	3,751.1	3,544.2	49.1	22.1	152.48	183.1	1,163.5	3,357.2	3,309.4	70.130		
5,300.0	4,485.3	3,816.8	3,605.2	50.2	22.5	152.49	188.2	1,187.4	3,432.6	3,383.9	70.386		
5,400.0	4,565.5	3,882.6	3,666.2	51.4	23.0	152.50	193.4	1,211.2	3,508.0	3,458.3	70.630		
5,500.0	4,645.7	3,948.3	3,727.2	52.5	23.4	152.52	198.5	1,235.1	3,583.4	3,532.8	70.863		
5,600.0	4,725.9	4,014.0	3,788.3	53.6	23.9	152.70	203.6	1,258.9	3,658.7	3,607.3	71.088		
5,700.0	4,807.8	4,081.6	3,851.0	54.7	24.4	153.91	208.9	1,283.4	3,732.5	3,680.1	71.229		
5,800.0	4,892.0	4,151.9	3,916.3	55.8	24.8	154.94	214.4	1,309.0	3,803.5	3,750.1	71.239		
5,900.0	4,978.5	4,224.9	3,984.1	56.7	25.3	155.82	220.1	1,335.5	3,871.7	3,817.3	71.170		
6,000.0	5,067.2	4,300.4	4,054.2	57.5	25.9	156.56	226.0	1,362.9	3,936.9	3,881.5	71.028		
6,100.0	5,157.7	4,378.2	4,126.5	58.3	26.4	157.19	232.1	1,391.1	3,999.1	3,942.6	70.818		
6,200.0	5,250.0	4,458.3	4,200.8	59.0	26.9	157.71	238.4	1,420.2	4,058.1	4,000.5	70.548		
6,300.0	5,343.9	4,540.5	4,277.1	59.6	27.5	158.14	244.8	1,450.0	4,113.8	4,055.2	70.223		
6,400.0	5,439.3	4,624.6	4,355.2	60.1	28.1	158.49	251.3	1,480.5	4,166.1	4,106.5	69.849		
6,500.0	5,535.8	4,710.4	4,434.9	60.5	28.7	158.76	258.0	1,511.7	4,215.0	4,154.3	69.434		
6,600.0	5,633.4	4,797.8	4,516.1	60.9	29.3	158.96	264.9	1,543.4	4,260.4	4,198.6	68.982		
6,700.0	5,731.8	4,886.7	4,598.6	61.2	29.9	159.10	271.8	1,575.6	4,302.2	4,239.4	68.500		
6,800.0	5,831.0	4,976.8	4,682.2	61.4	30.5	159.18	278.9	1,608.3	4,340.3	4,276.5	67.996		
6,900.0	5,930.6	5,067.9	4,766.9	61.6	31.1	159.20	286.0	1,641.4	4,374.8	4,309.9	67.478		
7,000.0	6,030.4	5,160.0	4,852.4	61.6	31.8	159.17	293.2	1,674.8	4,405.5	4,339.7	66.963		
7,100.0	6,130.4	5,252.8	4,938.5	61.7	32.4	123.56	300.4	1,708.5	4,432.9	4,366.4	66.654		
7,200.0	6,230.4	5,345.6	5,024.7	61.7	33.1	123.23	307.7	1,742.2	4,459.8	4,392.7	66.391		
7,300.0	6,330.4	6,690.6	6,330.4	61.7	37.9	120.87	362.3	1,995.9	4,479.8	4,401.7	57.301		
7,400.0	6,430.4	6,790.6	6,430.4	61.7	37.9	120.87	362.3	1,995.9	4,479.8	4,401.6	57.268		
7,500.0	6,530.4	6,890.6	6,530.4	61.7	38.0	120.87	362.3	1,995.9	4,479.8	4,401.6	57.234		
7,600.0	6,630.4	6,990.6	6,630.4	61.7	38.0	120.87	362.3	1,995.9	4,479.8	4,401.5	57.200		
7,700.0	6,730.4	7,090.6	6,730.4	61.8	38.0	120.87	362.3	1,995.9	4,479.8	4,401.5	57.166		
7,800.0	6,830.4	7,190.6	6,830.4	61.8	38.0	120.87	362.3	1,995.9	4,479.8	4,401.4	57.132		
7,900.0	6,930.4	7,290.6	6,930.4	61.8	38.1	120.87	362.3	1,995.9	4,479.8	4,401.4	57.098		
8,000.0	7,030.4	7,390.6	7,030.4	61.8	38.1	120.87	362.3	1,995.9	4,479.8	4,401.3	57.063		
8,100.0	7,130.4	7,490.6	7,130.4	61.8	38.1	120.87	362.3	1,995.9	4,479.8	4,401.3	57.029		
8,200.0	7,230.4	7,590.6	7,230.4	61.8	38.2	120.87	362.3	1,995.9	4,479.8	4,401.2	56.994		
8,300.0	7,330.4	7,690.6	7,330.4	61.9	38.2	120.87	362.3	1,995.9	4,479.8	4,401.2	56.959		
8,400.0	7,430.4	7,790.6	7,430.4	61.9	38.2	120.87	362.3	1,995.9	4,479.8	4,401.1	56.923		
8,500.0	7,530.4	7,890.6	7,530.4	61.9	38.2	120.87	362.3	1,995.9	4,479.8	4,401.1	56.888		
8,600.0	7,630.4	7,990.6	7,630.4	61.9	38.3	120.87	362.3	1,995.9	4,479.8	4,401.0	56.852		
8,700.0	7,730.4	8,090.6	7,730.4	61.9	38.3	120.87	362.3	1,995.9	4,479.8	4,401.0	56.816		
8,800.0	7,830.4	8,190.6	7,830.4	61.9	38.3	120.87	362.3	1,995.9	4,479.8	4,400.9	56.780		
8,828.6	7,859.0	8,219.2	7,859.0	61.9	38.3	120.87	362.3	1,995.9	4,479.8	4,400.9	56.774		

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

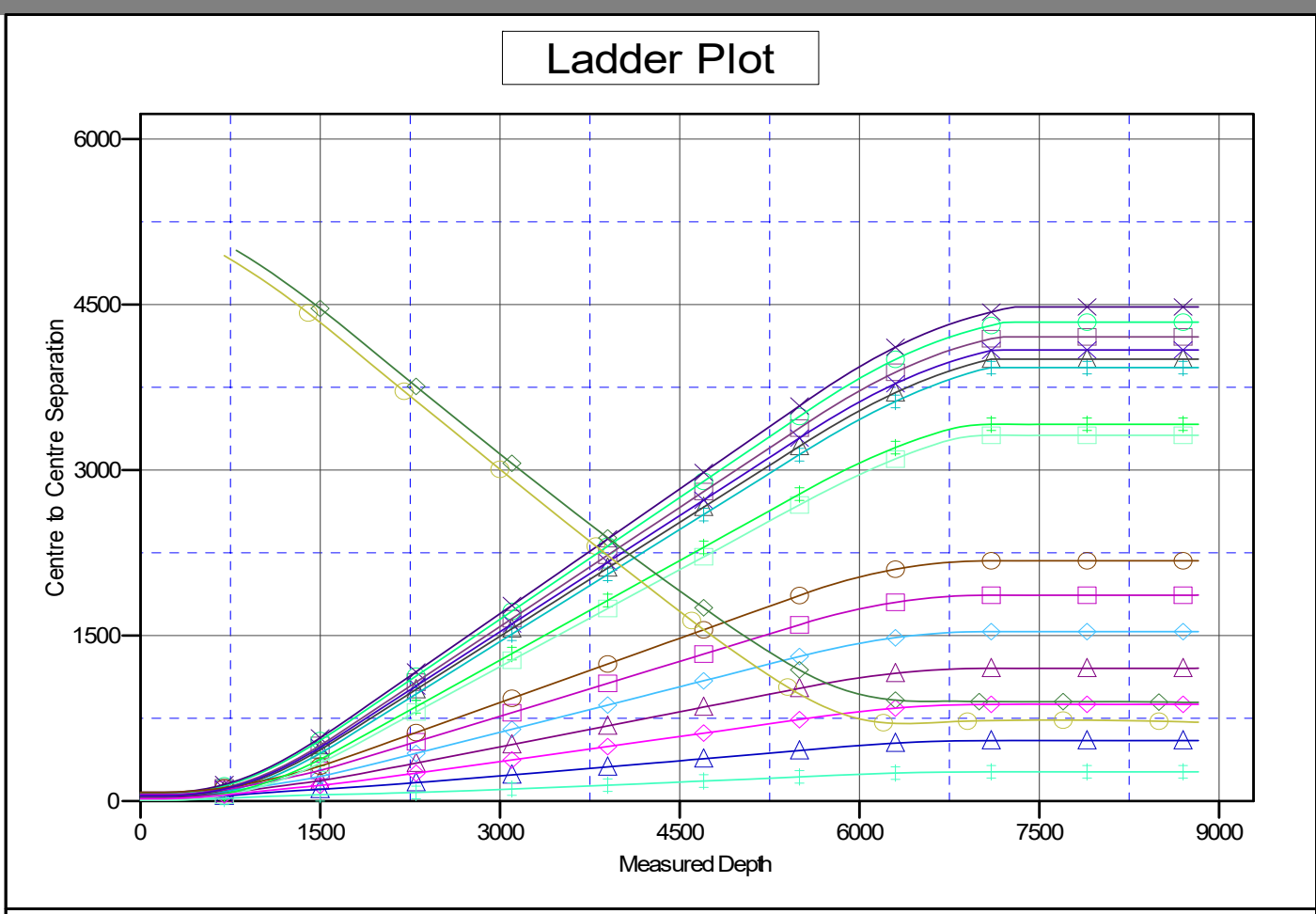


Anticollision Report



Company:	Laramie Energy, LLC	Local Co-ordinate Reference:	Well Laramie 29-01 0993-20-11E - Slot A1
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 0993-20-11E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	KLXDirectional-AD
Reference Design:	Design #2	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB=30' @ 7493.0usft (TBD) Coordinates are relative to: Laramie 29-01 0993-20-11E - Slot A1
 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

- Laramie 29-01 0993-20-13E, OH, Design#2 V0
- Laramie 29-01 0993-20-12E, OH, Design#2 V0
- Laramie 29-01 Fed 0993-21-16W, OH, Design#2 V0
- Laramie 29-01 Fed 0993-21-17W, OH, Design#2 V0
- Laramie 29-01 0993-20-16E, OH, Design#2 V0
- Laramie 29-01 Fed 0993-21-18W, OH, Design#2 V0
- Laramie 29-01 Fed 0993-21-14W, OH, Design#2 V0
- Laramie 29-01 Fed 0993-21-13W, OH, Design#2 V0
- Laramie 29-01 0993-20-17E, OH, Design#2 V0
- Laramie 29-01 0993-20-15E, OH, Design#2 V0
- Laramie 29-01 0993-20-18E, OH, Design#2 V0
- Laramie 29-01 Fed 0993-21-12W, OH, Design#2 V0
- Laramie 29-01 Fed 0993-21-11W, OH, Design#2 V0
- Laramie 29-01 0993-20-14E, OH, Design#2 V0
- Laramie 29-01 Fed 0993-21-15W, OH, Design#2 V0
- Gunderson BCU 20-10E, Wellbore #1, Wellbore #1
- Gunderson BCU 20-09E, Wellbore #1, Wellbore #1

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

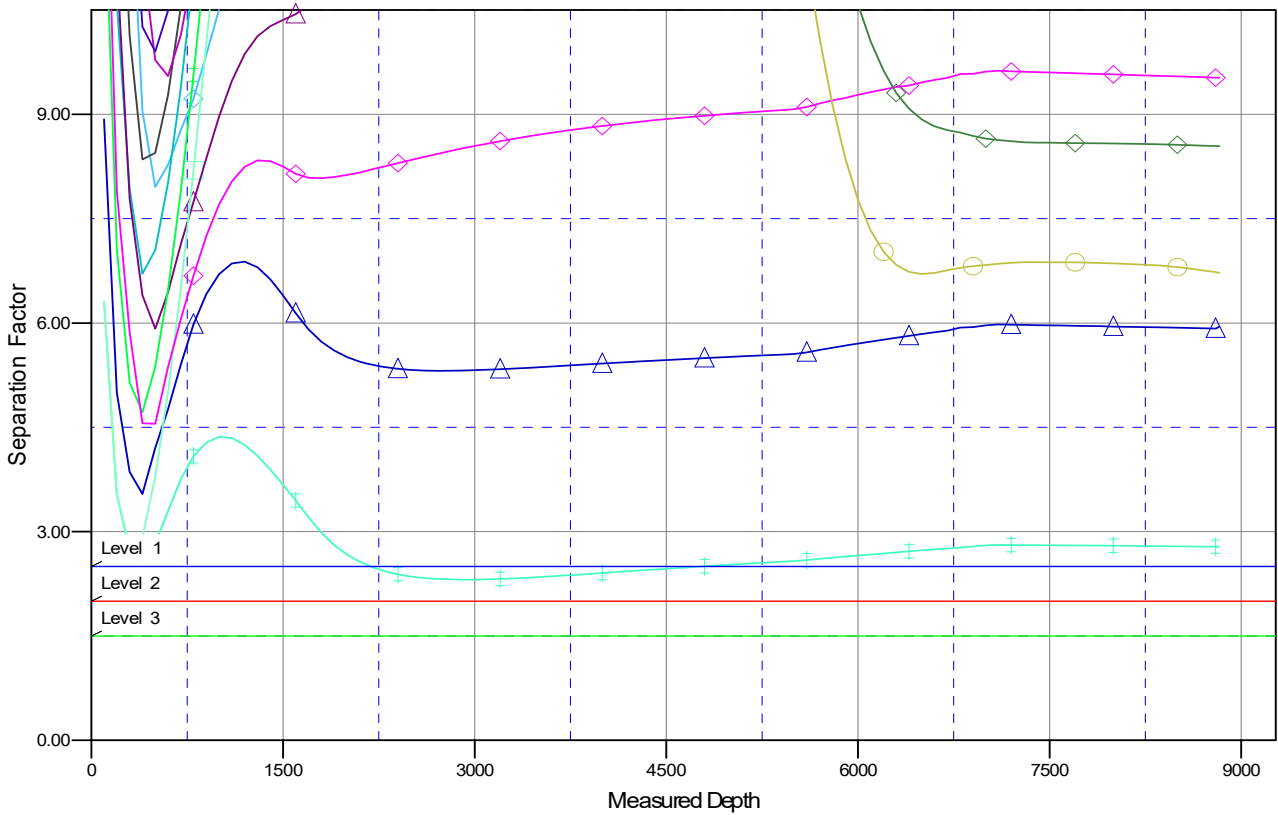


Company:	Laramie Energy, LLC	Local Co-ordinate Reference:	Well Laramie 29-01 0993-20-11E - Slot A1
Project:	Mesa County, CO	TVD Reference:	RKB=30' @ 7493.0usft (TBD)
Reference Site:	Laramie 0993-29-01	MD Reference:	RKB=30' @ 7493.0usft (TBD)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	Laramie 29-01 0993-20-11E	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	KLXDirectional-AD
Reference Design:	Design #2	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB=30' @ 7493.0usft (TBD)
 Offset Depths are relative to Offset Datum
 Central Meridian is -105.500000

Coordinates are relative to: Laramie 29-01 0993-20-11E - Slot A1
 Coordinate System is US State Plane 1983, Colorado Central Zone
 Grid Convergence at Surface is: -1.44°

Separation Factor Plot



LEGEND

- Laramie 29-01 0993-20-13E, OH, Design #2 V0
- Laramie 29-01 Fed 0993-21-14W, OH, Design #2 V0
- Laramie 29-01 Fed 0993-21-11W, OH, Design #2 V0
- Laramie 29-01 0993-20-12E, OH, Design #2 V0
- Laramie 29-01 Fed 0993-21-13W, OH, Design #2 V0
- Laramie 29-01 0993-20-14E, OH, Design #2 V0
- Laramie 29-01 Fed 0993-21-16W, OH, Design #2 V0
- Laramie 29-01 0993-20-17E, OH, Design #2 V0
- Laramie 29-01 Fed 0993-21-15W, OH, Design #2 V0
- Laramie 29-01 Fed 0993-21-17W, OH, Design #2 V0
- Laramie 29-01 0993-20-15E, OH, Design #2 V0
- Laramie 29-01 Fed 0993-21-10E, Wellbore #1, Wellbore #1
- Laramie 29-01 0993-20-16E, OH, Design #2 V0
- Laramie 29-01 0993-20-18E, OH, Design #2 V0
- Gunderson BCU 20-09E, Wellbore #1, Wellbore #1
- Laramie 29-01 Fed 0993-21-18W, OH, Design #2 V0
- Laramie 29-01 Fed 0993-21-12W, OH, Design #2 V0