



Laramie Energy, LLC

Mesa County, CO

Laramie 0993-29-01

Laramie 29-01 0993-20-17E

OH

Design #2

KLX Anticollision Report

08 May, 2025





Anticollision Report



Company:	Laramie Energy, LLC	Local Co-ordinate Reference:	Well Laramie 29-01 0993-20-17E - Slot B7
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 0993-20-17E	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	5/8/2025		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	8,219.4	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
Offset Well - Wellbore - Design						
Laramie 0993-29-01						
Laramie 29-01 0993-20-11E - OH - Design #2	200.0	200.0	60.8	58.0	21.498	CC, ES
Laramie 29-01 0993-20-11E - OH - Design #2	600.0	586.7	86.3	77.3	9.591	SF
Laramie 29-01 0993-20-12E - OH - Design #2	200.0	200.0	60.0	57.2	21.207	CC, ES
Laramie 29-01 0993-20-12E - OH - Design #2	600.0	587.2	83.1	73.6	8.800	SF
Laramie 29-01 0993-20-13E - OH - Design #2	200.0	200.0	50.0	47.2	17.673	CC, ES
Laramie 29-01 0993-20-13E - OH - Design #2	700.0	687.9	72.1	62.8	7.775	SF
Laramie 29-01 0993-20-14E - OH - Design #2	210.0	210.0	40.0	37.1	13.776	CC
Laramie 29-01 0993-20-14E - OH - Design #2	300.0	299.4	40.3	36.7	11.393	ES
Laramie 29-01 0993-20-14E - OH - Design #2	700.0	691.4	55.7	46.7	6.197	SF
Laramie 29-01 0993-20-15E - OH - Design #2	300.0	300.0	30.0	26.3	8.028	CC
Laramie 29-01 0993-20-15E - OH - Design #2	500.0	497.7	31.7	25.1	4.797	ES
Laramie 29-01 0993-20-15E - OH - Design #2	600.0	596.2	34.3	25.9	4.068	SF
Laramie 29-01 0993-20-16E - OH - Design #2	210.0	210.0	10.0	7.1	3.443	CC
Laramie 29-01 0993-20-16E - OH - Design #2	300.0	299.9	10.3	6.7	2.916	ES
Laramie 29-01 0993-20-16E - OH - Design #2	600.0	598.1	18.2	9.3	2.038	Level 1, SF
Laramie 29-01 0993-20-18E - OH - Design #2	300.0	300.0	20.0	16.3	5.353	CC
Laramie 29-01 0993-20-18E - OH - Design #2	700.0	702.5	22.9	13.2	2.353	Level 1, ES
Laramie 29-01 0993-20-18E - OH - Design #2	1,100.0	1,106.6	27.2	14.1	2.084	Level 1, SF
Laramie 29-01 Fed 0993-21-11W - OH - Design #2	200.0	200.0	51.0	48.2	18.024	CC
Laramie 29-01 Fed 0993-21-11W - OH - Design #2	300.0	299.2	51.7	47.9	13.808	ES
Laramie 29-01 Fed 0993-21-11W - OH - Design #2	600.0	591.0	69.2	61.2	8.734	SF
Laramie 29-01 Fed 0993-21-12W - OH - Design #2	200.0	200.0	41.2	38.4	14.576	CC
Laramie 29-01 Fed 0993-21-12W - OH - Design #2	300.0	299.2	42.1	38.2	10.827	ES
Laramie 29-01 Fed 0993-21-12W - OH - Design #2	600.0	591.1	64.4	56.0	7.644	SF
Laramie 29-01 Fed 0993-21-13W - OH - Design #2	200.0	200.0	31.6	28.8	11.174	CC
Laramie 29-01 Fed 0993-21-13W - OH - Design #2	300.0	299.7	32.0	28.4	8.943	ES
Laramie 29-01 Fed 0993-21-13W - OH - Design #2	500.0	496.9	39.4	33.2	6.339	SF
Laramie 29-01 Fed 0993-21-14W - OH - Design #2	200.0	200.0	22.4	19.5	7.900	CC
Laramie 29-01 Fed 0993-21-14W - OH - Design #2	300.0	299.7	22.9	19.2	6.147	ES
Laramie 29-01 Fed 0993-21-14W - OH - Design #2	500.0	496.8	34.5	27.6	4.997	SF
Laramie 29-01 Fed 0993-21-15W - OH - Design #2	210.0	210.0	14.1	11.2	4.880	CC
Laramie 29-01 Fed 0993-21-15W - OH - Design #2	300.0	299.8	14.4	10.9	4.109	ES
Laramie 29-01 Fed 0993-21-15W - OH - Design #2	400.0	399.2	17.5	12.8	3.739	SF
Laramie 29-01 Fed 0993-21-16W - OH - Design #2	300.0	300.0	10.0	6.3	2.679	CC, ES
Laramie 29-01 Fed 0993-21-16W - OH - Design #2	400.0	399.5	13.0	8.1	2.678	SF
Laramie 29-01 Fed 0993-21-17W - OH - Design #2	210.0	210.0	14.1	11.2	4.880	CC
Laramie 29-01 Fed 0993-21-17W - OH - Design #2	300.0	299.7	14.7	11.1	4.154	ES

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 0993-20-17E - Slot B7
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 0993-20-17E	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

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Laramie 0993-29-01						
Laramie 29-01 Fed 0993-21-17W - OH - Design #2	400.0	398.8	20.1	14.9	3.908	SF
Laramie 29-01 Fed 0993-21-18W - OH - Design #2	205.6	205.6	22.4	19.5	7.778	CC
Laramie 29-01 Fed 0993-21-18W - OH - Design #2	300.0	299.8	22.5	18.9	6.302	ES
Laramie 29-01 Fed 0993-21-18W - OH - Design #2	500.0	496.6	38.9	31.4	5.165	SF
Piceance 29-07 Pad						
Piceance 29-01E - Wellbore #1 - Wellbore #1	4,853.4	4,971.0	720.3	662.7	12.508	CC, ES
Piceance 29-01E - Wellbore #1 - Wellbore #1	5,000.0	5,083.7	725.2	666.6	12.378	SF

Offset Design											Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard											Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-37.28	48.4	-36.8	60.8			
100.0	100.0	100.0	100.0	0.8	0.8	-37.28	48.4	-36.8	60.8	59.2	38.395	
200.0	200.0	200.0	200.0	1.4	1.4	-37.28	48.4	-36.8	60.8	58.0	21.498	CC, ES
300.0	300.0	297.5	297.4	1.9	2.5	-36.71	50.3	-37.5	62.9	58.6	14.724	
400.0	400.0	394.6	394.4	2.2	3.9	55.50	56.2	-39.7	68.3	62.3	11.449	
500.0	499.8	491.1	490.3	3.6	5.0	60.57	65.8	-43.2	75.8	68.1	9.862	
600.0	599.3	586.7	584.9	4.8	5.9	67.33	79.0	-48.0	86.3	77.3	9.591	SF
700.0	698.3	681.3	677.8	5.8	6.7	74.26	95.5	-54.5	100.5	90.6	10.149	
800.0	796.7	775.1	769.2	6.0	7.4	74.12	114.7	-63.4	118.1	107.5	11.194	
900.0	894.3	868.5	859.2	6.6	8.0	72.75	136.6	-74.8	136.9	125.3	11.864	
1,000.0	991.0	961.4	947.8	7.3	8.7	72.01	161.1	-88.4	156.6	144.1	12.530	
1,100.0	1,086.6	1,053.9	1,034.8	7.9	9.3	71.64	188.3	-104.3	177.0	163.6	13.227	
1,200.0	1,181.0	1,146.1	1,120.2	8.6	9.9	71.47	217.9	-122.5	197.9	183.7	13.925	
1,300.0	1,273.9	1,237.9	1,203.8	9.2	10.4	71.43	249.9	-142.8	219.3	204.2	14.552	
1,400.0	1,365.6	1,329.3	1,285.4	9.5	11.0	72.67	284.3	-165.3	241.7	225.8	15.180	
1,500.0	1,457.3	1,420.0	1,364.8	9.8	11.5	73.58	320.7	-189.7	266.5	249.5	15.737	
1,600.0	1,549.0	1,509.7	1,441.5	10.2	12.0	73.76	359.1	-215.9	293.6	275.5	16.277	
1,700.0	1,640.6	1,600.0	1,516.9	10.6	12.5	73.38	399.9	-244.3	322.9	303.7	16.781	
1,800.0	1,732.3	1,685.9	1,586.7	10.9	12.9	72.63	440.8	-273.1	354.5	334.1	17.394	
1,900.0	1,824.0	1,779.3	1,661.6	11.3	13.2	71.73	486.2	-305.5	387.3	365.6	17.895	
2,000.0	1,915.6	1,873.6	1,737.3	11.8	13.5	70.96	532.1	-338.1	420.1	397.2	18.311	
2,100.0	2,007.3	1,967.9	1,812.9	12.2	13.9	70.30	578.0	-370.8	453.0	428.8	18.669	
2,200.0	2,099.0	2,062.3	1,888.5	12.7	14.4	69.73	624.0	-403.4	486.0	460.4	18.978	
2,300.0	2,190.7	2,156.6	1,964.2	13.2	15.0	69.23	669.9	-436.0	519.0	492.1	19.268	
2,400.0	2,282.3	2,250.9	2,039.8	13.8	15.8	68.79	715.8	-468.7	552.0	523.7	19.502	
2,500.0	2,374.0	2,345.2	2,115.5	14.4	16.8	68.40	761.7	-501.3	585.1	555.4	19.711	
2,600.0	2,465.7	2,439.5	2,191.1	15.0	17.8	68.06	807.6	-534.0	618.1	587.1	19.896	
2,700.0	2,557.3	2,533.8	2,266.7	15.7	18.9	67.74	853.5	-566.6	651.2	618.8	20.061	
2,800.0	2,649.0	2,628.1	2,342.4	16.4	19.9	67.46	899.4	-599.3	684.3	650.5	20.208	
2,900.0	2,740.7	2,722.4	2,418.0	17.1	20.9	67.21	945.3	-631.9	717.5	682.2	20.339	
3,000.0	2,832.4	2,816.7	2,493.7	17.8	22.0	66.97	991.2	-664.5	750.6	713.9	20.457	
3,100.0	2,924.0	2,911.0	2,569.3	18.5	23.1	66.76	1,037.1	-697.2	783.7	745.6	20.563	
3,200.0	3,015.7	3,005.3	2,644.9	19.2	24.1	66.56	1,083.0	-729.8	816.9	777.3	20.658	
3,300.0	3,107.4	3,099.7	2,720.6	20.0	25.2	66.38	1,128.9	-762.5	850.0	809.1	20.745	
3,400.0	3,199.0	3,194.0	2,796.2	20.7	26.2	66.21	1,174.8	-795.1	883.2	840.8	20.824	

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



Anticollision Report



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Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	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	
3,500.0	3,290.7	3,288.3	2,871.9	21.4	27.3	66.06	1,220.8	-827.8	916.4	872.5	20.896		
3,600.0	3,382.4	3,382.6	2,947.5	22.2	28.4	65.92	1,266.7	-860.4	949.6	904.3	20.962		
3,700.0	3,474.0	3,476.9	3,023.1	22.9	29.4	65.78	1,312.6	-893.0	982.7	936.0	21.022		
3,800.0	3,565.7	3,571.2	3,098.8	23.7	30.5	65.65	1,358.5	-925.7	1,015.9	967.7	21.077		
3,900.0	3,657.4	3,665.5	3,174.4	24.4	31.6	65.54	1,404.4	-958.3	1,049.1	999.5	21.128		
4,000.0	3,749.1	3,759.8	3,250.1	25.2	32.7	65.43	1,450.3	-991.0	1,082.3	1,031.2	21.175		
4,100.0	3,840.7	3,854.1	3,325.7	25.9	33.7	65.32	1,496.2	-1,023.6	1,115.5	1,062.9	21.219		
4,200.0	3,932.4	3,948.4	3,401.3	26.6	34.8	65.22	1,542.1	-1,056.3	1,148.7	1,094.7	21.259		
4,300.0	4,024.1	4,042.8	3,477.0	27.4	35.9	65.13	1,588.0	-1,088.9	1,181.9	1,126.4	21.297		
4,400.0	4,115.7	4,137.1	3,552.6	28.1	36.9	65.04	1,633.9	-1,121.5	1,215.1	1,158.2	21.331		
4,500.0	4,207.4	4,231.4	3,628.3	28.9	38.0	64.96	1,679.8	-1,154.2	1,248.3	1,189.9	21.364		
4,600.0	4,299.1	4,325.7	3,703.9	29.6	39.1	64.88	1,725.7	-1,186.8	1,281.5	1,221.6	21.394		
4,700.0	4,390.8	4,420.0	3,779.5	30.4	40.2	64.81	1,771.6	-1,219.5	1,314.8	1,253.4	21.422		
4,800.0	4,482.4	4,514.3	3,855.2	31.1	41.2	64.74	1,817.6	-1,252.1	1,348.0	1,285.1	21.449		
4,900.0	4,574.1	4,608.6	3,930.8	31.9	42.3	64.67	1,863.5	-1,284.8	1,381.2	1,316.9	21.474		
5,000.0	4,665.8	4,702.9	4,006.4	32.6	43.4	64.60	1,909.4	-1,317.4	1,414.4	1,348.6	21.497		
5,100.0	4,757.4	4,797.2	4,082.1	33.4	44.5	64.54	1,955.3	-1,350.0	1,447.6	1,380.4	21.519		
5,200.0	4,849.1	4,891.5	4,157.7	34.1	45.6	64.48	2,001.2	-1,382.7	1,480.8	1,412.1	21.540		
5,300.0	4,940.8	4,985.9	4,233.4	34.9	46.6	64.43	2,047.1	-1,415.3	1,514.1	1,443.8	21.559		
5,400.0	5,032.5	5,080.2	4,309.0	35.6	47.7	64.37	2,093.0	-1,448.0	1,547.3	1,475.6	21.577		
5,500.0	5,124.1	5,174.5	4,384.6	36.4	48.8	64.32	2,138.9	-1,480.6	1,580.5	1,507.3	21.595		
5,600.0	5,216.6	5,268.4	4,460.0	37.1	49.9	65.00	2,184.6	-1,513.1	1,614.6	1,540.0	21.639		
5,700.0	5,310.6	5,361.5	4,534.7	37.7	50.9	65.61	2,230.0	-1,545.4	1,650.4	1,574.5	21.739		
5,800.0	5,406.1	5,453.6	4,608.5	38.3	52.0	66.15	2,274.8	-1,577.2	1,687.9	1,610.8	21.896		
5,900.0	5,502.7	5,544.5	4,681.4	38.7	53.0	66.61	2,319.0	-1,608.7	1,727.2	1,649.1	22.108		
6,000.0	5,600.4	5,710.8	4,816.7	39.1	54.9	66.62	2,397.7	-1,664.7	1,767.2	1,686.9	22.021		
6,100.0	5,698.9	5,958.5	5,030.1	39.4	57.2	65.98	2,500.1	-1,737.4	1,802.1	1,718.9	21.675		
6,200.0	5,798.1	6,176.0	5,227.8	39.6	58.8	65.70	2,573.7	-1,789.8	1,830.2	1,745.1	21.520		
6,300.0	5,897.7	6,504.2	5,539.9	39.8	60.6	65.09	2,655.8	-1,848.2	1,851.0	1,764.2	21.331		
6,400.0	5,997.6	6,796.1	5,827.1	39.9	61.4	64.79	2,697.5	-1,877.8	1,863.6	1,776.4	21.389		
6,500.0	6,097.6	7,067.2	6,097.6	39.9	61.7	-0.20	2,709.3	-1,886.2	1,867.4	1,780.9	21.606		
6,600.0	6,197.6	7,167.2	6,197.6	39.9	61.7	-0.20	2,709.3	-1,886.2	1,867.4	1,780.9	21.594		
6,700.0	6,297.6	7,267.2	6,297.6	40.0	61.7	-0.20	2,709.3	-1,886.2	1,867.4	1,780.8	21.580		
6,800.0	6,397.6	7,367.2	6,397.6	40.0	61.7	-0.20	2,709.3	-1,886.2	1,867.4	1,780.8	21.567		
6,900.0	6,497.6	7,467.2	6,497.6	40.0	61.7	-0.20	2,709.3	-1,886.2	1,867.4	1,780.7	21.553		
7,000.0	6,597.6	7,567.2	6,597.6	40.0	61.7	-0.20	2,709.3	-1,886.2	1,867.4	1,780.7	21.540		
7,100.0	6,697.6	7,667.2	6,697.6	40.1	61.7	-0.20	2,709.3	-1,886.2	1,867.4	1,780.6	21.526		
7,200.0	6,797.6	7,767.2	6,797.6	40.1	61.8	-0.20	2,709.3	-1,886.2	1,867.4	1,780.6	21.512		
7,300.0	6,897.6	7,867.2	6,897.6	40.1	61.8	-0.20	2,709.3	-1,886.2	1,867.4	1,780.5	21.498		
7,400.0	6,997.6	7,967.2	6,997.6	40.2	61.8	-0.20	2,709.3	-1,886.2	1,867.4	1,780.4	21.484		
7,500.0	7,097.6	8,067.2	7,097.6	40.2	61.8	-0.20	2,709.3	-1,886.2	1,867.4	1,780.4	21.470		
7,600.0	7,197.6	8,167.2	7,197.6	40.2	61.8	-0.20	2,709.3	-1,886.2	1,867.4	1,780.3	21.457		
7,700.0	7,297.6	8,267.2	7,297.6	40.2	61.8	-0.20	2,709.3	-1,886.2	1,867.4	1,780.3	21.442		
7,800.0	7,397.6	8,367.2	7,397.6	40.3	61.9	-0.20	2,709.3	-1,886.2	1,867.4	1,780.2	21.428		
7,900.0	7,497.6	8,467.2	7,497.6	40.3	61.9	-0.20	2,709.3	-1,886.2	1,867.4	1,780.2	21.414		
8,000.0	7,597.6	8,567.2	7,597.6	40.3	61.9	-0.20	2,709.3	-1,886.2	1,867.4	1,780.1	21.400		
8,100.0	7,697.6	8,667.2	7,697.6	40.4	61.9	-0.20	2,709.3	-1,886.2	1,867.4	1,780.0	21.386		
8,200.0	7,797.6	8,767.2	7,797.6	40.4	61.9	-0.20	2,709.3	-1,886.2	1,867.4	1,780.0	21.372		
8,219.4	7,817.0	8,786.6	7,817.0	40.4	61.9	-0.20	2,709.3	-1,886.2	1,867.4	1,780.0	21.370		

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 0993-20-17E - Slot B7
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 0993-20-17E	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	-46.73	41.1	-43.7	60.0				
100.0	100.0	100.0	100.0	0.8	0.8	-46.73	41.1	-43.7	60.0	58.4	37.874		
200.0	200.0	200.0	200.0	1.4	1.4	-46.73	41.1	-43.7	60.0	57.2	21.207	CC, ES	
300.0	300.0	297.4	297.4	1.9	2.4	-46.43	42.8	-44.9	62.1	57.8	14.531		
400.0	400.0	394.5	394.3	2.2	3.9	45.01	47.7	-48.7	67.5	61.5	11.190		
500.0	499.8	491.2	490.4	3.6	5.0	48.79	55.8	-54.9	74.4	66.4	9.353		
600.0	599.3	587.2	585.4	4.8	5.9	54.14	67.0	-63.6	83.1	73.6	8.800	SF	
700.0	698.3	682.4	678.9	5.8	6.7	60.21	81.2	-74.5	94.4	83.9	9.006		
800.0	796.7	776.7	770.7	6.0	7.5	60.10	98.4	-87.7	108.2	97.2	9.815		
900.0	894.3	870.5	861.0	6.6	8.1	59.09	118.3	-103.1	123.2	111.3	10.345		
1,000.0	991.0	963.8	949.8	7.3	8.8	58.88	141.1	-120.6	139.1	126.3	10.853		
1,100.0	1,086.6	1,056.6	1,036.8	7.9	9.4	59.09	166.6	-140.1	155.8	142.1	11.395		
1,200.0	1,181.0	1,148.9	1,122.1	8.6	10.0	59.54	194.7	-161.7	173.2	158.7	11.954		
1,300.0	1,273.9	1,240.8	1,205.4	9.2	10.6	60.11	225.3	-185.3	191.1	175.8	12.477		
1,400.0	1,365.6	1,332.1	1,286.6	9.5	11.1	61.86	258.3	-210.7	210.4	194.3	13.095		
1,500.0	1,457.3	1,422.6	1,365.4	9.8	11.6	63.23	293.6	-237.8	232.8	215.8	13.696		
1,600.0	1,549.0	1,511.9	1,441.4	10.2	12.1	63.85	330.7	-266.4	258.3	240.3	14.330		
1,700.0	1,640.6	1,603.1	1,517.3	10.6	12.4	63.93	370.9	-297.2	286.4	267.4	15.029		
1,800.0	1,732.3	1,698.9	1,596.6	10.9	12.7	63.93	413.5	-330.0	315.0	294.8	15.570		
1,900.0	1,824.0	1,794.7	1,675.9	11.3	13.0	63.92	456.1	-362.8	343.7	322.2	16.016		
2,000.0	1,915.6	1,890.5	1,755.2	11.8	13.4	63.92	498.7	-395.5	372.3	349.6	16.388		
2,100.0	2,007.3	1,986.4	1,834.6	12.2	13.7	63.91	541.3	-428.3	400.9	376.9	16.702		
2,200.0	2,099.0	2,082.2	1,913.9	12.7	14.1	63.91	583.9	-461.0	429.6	404.3	16.966		
2,300.0	2,190.7	2,178.0	1,993.2	13.2	14.6	63.91	626.5	-493.8	458.2	431.6	17.199		
2,400.0	2,282.3	2,273.8	2,072.5	13.8	15.6	63.90	669.1	-526.5	486.8	458.9	17.389		
2,500.0	2,374.0	2,369.6	2,151.9	14.4	16.6	63.90	711.7	-559.3	515.5	486.1	17.554		
2,600.0	2,465.7	2,465.4	2,231.2	15.0	17.6	63.90	754.3	-592.0	544.1	513.4	17.697		
2,700.0	2,557.3	2,561.2	2,310.5	15.7	18.6	63.90	796.9	-624.8	572.7	540.6	17.821		
2,800.0	2,649.0	2,657.0	2,389.9	16.4	19.6	63.90	839.5	-657.5	601.4	567.8	17.929		
2,900.0	2,740.7	2,752.9	2,469.2	17.1	20.6	63.89	882.1	-690.3	630.0	595.1	18.024		
3,000.0	2,832.4	2,848.7	2,548.5	17.8	21.6	63.89	924.7	-723.0	658.6	622.3	18.108		
3,100.0	2,924.0	2,944.5	2,627.8	18.5	22.6	63.89	967.3	-755.8	687.3	649.5	18.181		
3,200.0	3,015.7	3,040.3	2,707.2	19.2	23.6	63.89	1,009.9	-788.5	715.9	676.7	18.246		
3,300.0	3,107.4	3,136.1	2,786.5	20.0	24.7	63.89	1,052.5	-821.3	744.5	703.9	18.304		
3,400.0	3,199.0	3,231.9	2,865.8	20.7	25.7	63.89	1,095.1	-854.1	773.2	731.1	18.356		
3,500.0	3,290.7	3,327.7	2,945.1	21.4	26.7	63.89	1,137.7	-886.8	801.8	758.2	18.402		
3,600.0	3,382.4	3,423.6	3,024.5	22.2	27.7	63.89	1,180.3	-919.6	830.4	785.4	18.443		
3,700.0	3,474.0	3,519.4	3,103.8	22.9	28.7	63.89	1,222.9	-952.3	859.1	812.6	18.481		
3,800.0	3,565.7	3,615.2	3,183.1	23.7	29.8	63.88	1,265.5	-985.1	887.7	839.8	18.514		
3,900.0	3,657.4	3,711.0	3,262.4	24.4	30.8	63.88	1,308.1	-1,017.8	916.3	866.9	18.545		
4,000.0	3,749.1	3,806.8	3,341.8	25.2	31.8	63.88	1,350.7	-1,050.6	945.0	894.1	18.572		
4,100.0	3,840.7	3,902.6	3,421.1	25.9	32.8	63.88	1,393.3	-1,083.3	973.6	921.3	18.597		
4,200.0	3,932.4	3,998.4	3,500.4	26.6	33.8	63.88	1,435.9	-1,116.1	1,002.2	948.4	18.620		
4,300.0	4,024.1	4,094.2	3,579.7	27.4	34.9	63.88	1,478.5	-1,148.8	1,030.9	975.6	18.641		
4,400.0	4,115.7	4,190.1	3,659.1	28.1	35.9	63.88	1,521.1	-1,181.6	1,059.5	1,002.7	18.660		
4,500.0	4,207.4	4,285.9	3,738.4	28.9	36.9	63.88	1,563.7	-1,214.3	1,088.1	1,029.9	18.677		
4,600.0	4,299.1	4,381.7	3,817.7	29.6	37.9	63.88	1,606.3	-1,247.1	1,116.8	1,057.0	18.693		
4,700.0	4,390.8	4,477.5	3,897.1	30.4	38.9	63.88	1,648.9	-1,279.8	1,145.4	1,084.2	18.708		
4,800.0	4,482.4	4,573.3	3,976.4	31.1	40.0	63.88	1,691.5	-1,312.6	1,174.0	1,111.3	18.721		
4,900.0	4,574.1	4,669.1	4,055.7	31.9	41.0	63.88	1,734.1	-1,345.3	1,202.7	1,138.5	18.734		
5,000.0	4,665.8	4,764.9	4,135.0	32.6	42.0	63.88	1,776.7	-1,378.1	1,231.3	1,165.6	18.745		
5,100.0	4,757.4	4,860.7	4,214.4	33.4	43.0	63.88	1,819.3	-1,410.9	1,259.9	1,192.8	18.756		

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 0993-20-17E - Slot B7
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 0993-20-17E	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	4,849.1	4,956.6	4,293.7	34.1	44.1	63.88	1,861.9	-1,443.6	1,288.6	1,219.9	18.766		
5,300.0	4,940.8	5,052.4	4,373.0	34.9	45.1	63.88	1,904.5	-1,476.4	1,317.2	1,247.1	18.775		
5,400.0	5,032.5	5,148.2	4,452.3	35.6	46.1	63.88	1,947.1	-1,509.1	1,345.8	1,274.2	18.783		
5,500.0	5,124.1	5,244.0	4,531.7	36.4	47.1	63.88	1,989.7	-1,541.9	1,374.5	1,301.3	18.791		
5,600.0	5,216.6	5,339.5	4,610.8	37.1	48.1	64.48	2,032.1	-1,574.5	1,404.0	1,329.4	18.824		
5,700.0	5,310.6	5,434.3	4,689.2	37.7	49.2	64.98	2,074.3	-1,606.9	1,435.3	1,359.4	18.911		
5,800.0	5,406.1	5,528.2	4,767.0	38.3	50.2	65.38	2,116.0	-1,639.0	1,468.4	1,391.3	19.051		
5,900.0	5,502.7	5,684.6	4,898.3	38.7	51.8	65.38	2,183.3	-1,690.8	1,502.0	1,422.9	18.985		
6,000.0	5,600.4	5,881.7	5,071.4	39.1	53.5	65.19	2,258.0	-1,748.2	1,531.6	1,450.2	18.809		
6,100.0	5,698.9	6,087.1	5,259.7	39.4	55.0	65.00	2,322.9	-1,798.1	1,556.4	1,473.1	18.682		
6,200.0	5,798.1	6,299.9	5,461.7	39.6	56.1	64.83	2,375.9	-1,838.8	1,576.1	1,491.4	18.615		
6,300.0	5,897.7	6,518.7	5,674.8	39.8	57.0	64.67	2,414.5	-1,868.5	1,590.3	1,504.8	18.615		
6,400.0	5,997.6	6,741.7	5,895.9	39.9	57.4	64.53	2,437.2	-1,886.0	1,598.7	1,513.2	18.689		
6,500.0	6,097.6	6,943.6	6,097.6	39.9	57.6	-0.39	2,443.0	-1,890.4	1,601.1	1,516.1	18.820		
6,600.0	6,197.6	7,043.6	6,197.6	39.9	57.6	-0.39	2,443.0	-1,890.4	1,601.1	1,516.0	18.809		
6,700.0	6,297.6	7,143.6	6,297.6	40.0	57.6	-0.39	2,443.0	-1,890.4	1,601.1	1,516.0	18.797		
6,800.0	6,397.6	7,243.6	6,397.6	40.0	57.6	-0.39	2,443.0	-1,890.4	1,601.1	1,515.9	18.784		
6,900.0	6,497.6	7,343.6	6,497.6	40.0	57.7	-0.39	2,443.0	-1,890.4	1,601.1	1,515.8	18.772		
7,000.0	6,597.6	7,443.6	6,597.6	40.0	57.7	-0.39	2,443.0	-1,890.4	1,601.1	1,515.8	18.760		
7,100.0	6,697.6	7,543.6	6,697.6	40.1	57.7	-0.39	2,443.0	-1,890.4	1,601.1	1,515.7	18.748		
7,200.0	6,797.6	7,643.6	6,797.6	40.1	57.7	-0.39	2,443.0	-1,890.4	1,601.1	1,515.7	18.735		
7,300.0	6,897.6	7,743.6	6,897.6	40.1	57.7	-0.39	2,443.0	-1,890.4	1,601.1	1,515.6	18.723		
7,400.0	6,997.6	7,843.6	6,997.6	40.2	57.7	-0.39	2,443.0	-1,890.4	1,601.1	1,515.6	18.710		
7,500.0	7,097.6	7,943.6	7,097.6	40.2	57.8	-0.39	2,443.0	-1,890.4	1,601.1	1,515.5	18.698		
7,600.0	7,197.6	8,043.6	7,197.6	40.2	57.8	-0.39	2,443.0	-1,890.4	1,601.1	1,515.4	18.685		
7,700.0	7,297.6	8,143.6	7,297.6	40.2	57.8	-0.39	2,443.0	-1,890.4	1,601.1	1,515.4	18.673		
7,800.0	7,397.6	8,243.6	7,397.6	40.3	57.8	-0.39	2,443.0	-1,890.4	1,601.1	1,515.3	18.660		
7,900.0	7,497.6	8,343.6	7,497.6	40.3	57.8	-0.39	2,443.0	-1,890.4	1,601.1	1,515.3	18.647		
8,000.0	7,597.6	8,443.6	7,597.6	40.3	57.9	-0.39	2,443.0	-1,890.4	1,601.1	1,515.2	18.635		
8,100.0	7,697.6	8,543.6	7,697.6	40.4	57.9	-0.39	2,443.0	-1,890.4	1,601.1	1,515.2	18.622		
8,200.0	7,797.6	8,643.6	7,797.6	40.4	57.9	-0.39	2,443.0	-1,890.4	1,601.1	1,515.1	18.609		
8,219.4	7,817.0	8,663.0	7,817.0	40.4	57.9	-0.39	2,443.0	-1,890.4	1,601.1	1,515.1	18.607		



Anticollision Report



Company:	Laramie Energy, LLC	Local Co-ordinate Reference:	Well Laramie 29-01 0993-20-17E - Slot B7
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 0993-20-17E	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	-46.74	34.3	-36.4	50.0				
100.0	100.0	100.0	100.0	0.8	0.8	-46.74	34.3	-36.4	50.0	48.4	31.563		
200.0	200.0	200.0	200.0	1.4	1.4	-46.74	34.3	-36.4	50.0	47.2	17.673	CC, ES	
300.0	300.0	298.6	298.6	1.9	1.8	-47.23	34.6	-37.4	51.0	47.3	14.003		
400.0	400.0	396.5	396.3	2.2	3.2	41.37	36.1	-42.2	54.7	49.5	10.470		
500.0	499.8	494.1	493.5	3.6	3.6	41.72	39.4	-50.5	59.3	52.8	9.121		
600.0	599.3	591.2	589.8	4.8	4.4	45.16	45.9	-61.3	64.9	56.9	8.105		
700.0	698.3	687.9	685.1	5.8	5.3	50.84	55.7	-74.4	72.1	62.8	7.775	SF	
800.0	796.7	783.8	778.9	6.0	6.1	51.31	68.6	-89.6	81.2	71.3	8.219		
900.0	894.3	879.3	871.4	6.6	6.9	51.16	84.7	-107.0	91.3	80.5	8.470		
1,000.0	991.0	974.4	962.5	7.3	7.6	51.94	103.9	-126.5	102.4	90.7	8.738		
1,100.0	1,086.6	1,069.0	1,051.9	7.9	8.3	53.18	126.0	-148.0	114.4	101.8	9.080		
1,200.0	1,181.0	1,163.2	1,139.6	8.6	9.0	54.63	151.0	-171.5	127.3	113.8	9.475		
1,300.0	1,273.9	1,256.9	1,225.4	9.2	9.6	56.15	178.9	-196.9	140.9	126.7	9.874		
1,400.0	1,365.6	1,350.1	1,309.2	9.5	10.2	58.66	209.4	-224.0	156.2	141.2	10.406		
1,500.0	1,457.3	1,442.5	1,390.5	9.8	10.7	60.51	242.5	-252.8	175.1	159.1	10.965		
1,600.0	1,549.0	1,533.8	1,469.1	10.2	11.2	61.39	277.8	-283.1	197.3	180.4	11.625		
1,700.0	1,640.6	1,630.0	1,550.7	10.6	11.5	61.77	316.6	-316.0	221.6	203.5	12.257		
1,800.0	1,732.3	1,727.0	1,632.9	10.9	11.9	62.07	355.8	-349.3	245.9	226.6	12.761		
1,900.0	1,824.0	1,824.0	1,715.2	11.3	12.2	62.32	395.1	-382.6	270.2	249.7	13.173		
2,000.0	1,915.6	1,921.0	1,797.4	11.8	12.6	62.53	434.3	-415.8	294.5	272.7	13.515		
2,100.0	2,007.3	2,018.0	1,879.7	12.2	13.0	62.71	473.5	-449.1	318.8	295.7	13.800		
2,200.0	2,099.0	2,115.0	1,961.9	12.7	13.6	62.86	512.7	-482.3	343.1	318.6	14.041		
2,300.0	2,190.7	2,212.0	2,044.1	13.2	14.3	62.99	551.9	-515.6	367.4	341.6	14.246		
2,400.0	2,282.3	2,309.0	2,126.4	13.8	15.2	63.11	591.2	-548.9	391.7	364.5	14.420		
2,500.0	2,374.0	2,406.0	2,208.6	14.4	16.1	63.21	630.4	-582.1	416.0	387.4	14.569		
2,600.0	2,465.7	2,503.0	2,290.9	15.0	17.1	63.30	669.6	-615.4	440.3	410.3	14.698		
2,700.0	2,557.3	2,600.0	2,373.1	15.7	18.0	63.38	708.8	-648.6	464.6	433.2	14.810		
2,800.0	2,649.0	2,697.0	2,455.4	16.4	19.0	63.46	748.0	-681.9	488.9	456.1	14.908		
2,900.0	2,740.7	2,794.0	2,537.6	17.1	19.9	63.52	787.2	-715.2	513.2	479.0	14.994		
3,000.0	2,832.4	2,891.0	2,619.9	17.8	20.9	63.58	826.5	-748.4	537.5	501.9	15.070		
3,100.0	2,924.0	2,988.0	2,702.1	18.5	21.8	63.64	865.7	-781.7	561.9	524.7	15.137		
3,200.0	3,015.7	3,085.0	2,784.4	19.2	22.8	63.69	904.9	-814.9	586.2	547.6	15.197		
3,300.0	3,107.4	3,182.0	2,866.6	20.0	23.8	63.74	944.1	-848.2	610.5	570.5	15.251		
3,400.0	3,199.0	3,279.0	2,948.8	20.7	24.7	63.78	983.3	-881.5	634.8	593.3	15.299		
3,500.0	3,290.7	3,376.0	3,031.1	21.4	25.7	63.82	1,022.6	-914.7	659.1	616.2	15.342		
3,600.0	3,382.4	3,473.0	3,113.3	22.2	26.7	63.86	1,061.8	-948.0	683.4	639.0	15.382		
3,700.0	3,474.0	3,570.0	3,195.6	22.9	27.6	63.89	1,101.0	-981.3	707.7	661.8	15.417		
3,800.0	3,565.7	3,667.0	3,277.8	23.7	28.6	63.92	1,140.2	-1,014.5	732.1	684.7	15.450		
3,900.0	3,657.4	3,764.0	3,360.1	24.4	29.6	63.95	1,179.4	-1,047.8	756.4	707.5	15.479		
4,000.0	3,749.1	3,861.0	3,442.3	25.2	30.5	63.98	1,218.6	-1,081.0	780.7	730.3	15.506		
4,100.0	3,840.7	3,958.0	3,524.6	25.9	31.5	64.01	1,257.9	-1,114.3	805.0	753.2	15.531		
4,200.0	3,932.4	4,055.0	3,606.8	26.6	32.5	64.03	1,297.1	-1,147.6	829.3	776.0	15.554		
4,300.0	4,024.1	4,152.0	3,689.1	27.4	33.5	64.06	1,336.3	-1,180.8	853.6	798.8	15.575		
4,400.0	4,115.7	4,249.0	3,771.3	28.1	34.4	64.08	1,375.5	-1,214.1	877.9	821.6	15.594		
4,500.0	4,207.4	4,346.0	3,853.5	28.9	35.4	64.10	1,414.7	-1,247.3	902.3	844.5	15.612		
4,600.0	4,299.1	4,443.0	3,935.8	29.6	36.4	64.12	1,454.0	-1,280.6	926.6	867.3	15.629		
4,700.0	4,390.8	4,540.0	4,018.0	30.4	37.3	64.14	1,493.2	-1,313.9	950.9	890.1	15.644		
4,800.0	4,482.4	4,637.0	4,100.3	31.1	38.3	64.16	1,532.4	-1,347.1	975.2	912.9	15.659		
4,900.0	4,574.1	4,734.0	4,182.5	31.9	39.3	64.17	1,571.6	-1,380.4	999.5	935.7	15.672		
5,000.0	4,665.8	4,830.9	4,264.8	32.6	40.3	64.19	1,610.8	-1,413.6	1,023.8	958.6	15.684		
5,100.0	4,757.4	4,927.9	4,347.0	33.4	41.2	64.20	1,650.0	-1,446.9	1,048.2	981.4	15.696		

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



Anticollision Report



Company:	Laramie Energy, LLC	Local Co-ordinate Reference:	Well Laramie 29-01 0993-20-17E - Slot B7
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 0993-20-17E	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	4,849.1	5,024.9	4,429.3	34.1	42.2	64.22	1,689.3	-1,480.2	1,072.5	1,004.2	15.707	
5,300.0	4,940.8	5,121.9	4,511.5	34.9	43.2	64.23	1,728.5	-1,513.4	1,096.8	1,027.0	15.717	
5,400.0	5,032.5	5,218.9	4,593.8	35.6	44.2	64.25	1,767.7	-1,546.7	1,121.1	1,049.8	15.727	
5,500.0	5,124.1	5,315.9	4,676.0	36.4	45.2	64.26	1,806.9	-1,579.9	1,145.4	1,072.6	15.736	
5,600.0	5,216.6	5,412.7	4,758.0	37.1	46.1	64.75	1,846.0	-1,613.1	1,170.6	1,096.4	15.769	
5,700.0	5,310.6	5,508.8	4,839.5	37.7	47.1	65.11	1,884.9	-1,646.1	1,197.6	1,122.1	15.852	
5,800.0	5,406.1	5,652.2	4,962.8	38.3	48.5	65.18	1,940.8	-1,693.5	1,225.0	1,147.5	15.810	
5,900.0	5,502.7	5,814.5	5,107.4	38.7	49.8	65.16	1,996.9	-1,741.1	1,249.3	1,169.9	15.726	
6,000.0	5,600.4	5,980.9	5,260.6	39.1	51.0	65.13	2,046.2	-1,782.9	1,270.2	1,189.1	15.665	
6,100.0	5,698.9	6,150.8	5,421.6	39.4	51.9	65.09	2,087.7	-1,818.1	1,287.6	1,205.2	15.632	
6,200.0	5,798.1	6,323.9	5,589.2	39.6	52.7	65.03	2,120.5	-1,845.9	1,301.1	1,217.9	15.625	
6,300.0	5,897.7	6,499.3	5,761.9	39.8	53.2	64.97	2,143.7	-1,865.6	1,310.8	1,227.1	15.648	
6,400.0	5,997.6	6,676.4	5,938.2	39.9	53.5	64.89	2,156.9	-1,876.8	1,316.6	1,232.7	15.705	
6,500.0	6,097.6	6,836.0	6,097.6	39.9	53.6	0.00	2,160.0	-1,879.4	1,318.1	1,234.6	15.777	
6,600.0	6,197.6	6,936.0	6,197.6	39.9	53.6	0.00	2,160.0	-1,879.4	1,318.1	1,234.5	15.767	
6,700.0	6,297.6	7,036.0	6,297.6	40.0	53.6	0.00	2,160.0	-1,879.4	1,318.1	1,234.4	15.756	
6,800.0	6,397.6	7,136.0	6,397.6	40.0	53.6	0.00	2,160.0	-1,879.4	1,318.1	1,234.4	15.746	
6,900.0	6,497.6	7,236.0	6,497.6	40.0	53.7	0.00	2,160.0	-1,879.4	1,318.1	1,234.3	15.735	
7,000.0	6,597.6	7,336.0	6,597.6	40.0	53.7	0.00	2,160.0	-1,879.4	1,318.1	1,234.3	15.725	
7,100.0	6,697.6	7,436.0	6,697.6	40.1	53.7	0.00	2,160.0	-1,879.4	1,318.1	1,234.2	15.714	
7,200.0	6,797.6	7,536.0	6,797.6	40.1	53.7	0.00	2,160.0	-1,879.4	1,318.1	1,234.2	15.703	
7,300.0	6,897.6	7,636.0	6,897.6	40.1	53.7	0.00	2,160.0	-1,879.4	1,318.1	1,234.1	15.693	
7,400.0	6,997.6	7,736.0	6,997.6	40.2	53.8	0.00	2,160.0	-1,879.4	1,318.1	1,234.1	15.682	
7,500.0	7,097.6	7,836.0	7,097.6	40.2	53.8	0.00	2,160.0	-1,879.4	1,318.1	1,234.0	15.671	
7,600.0	7,197.6	7,936.0	7,197.6	40.2	53.8	0.00	2,160.0	-1,879.4	1,318.1	1,233.9	15.660	
7,700.0	7,297.6	8,036.0	7,297.6	40.2	53.8	0.00	2,160.0	-1,879.4	1,318.1	1,233.9	15.649	
7,800.0	7,397.6	8,136.0	7,397.6	40.3	53.8	0.00	2,160.0	-1,879.4	1,318.1	1,233.8	15.638	
7,900.0	7,497.6	8,236.0	7,497.6	40.3	53.9	0.00	2,160.0	-1,879.4	1,318.1	1,233.8	15.627	
8,000.0	7,597.6	8,336.0	7,597.6	40.3	53.9	0.00	2,160.0	-1,879.4	1,318.1	1,233.7	15.616	
8,100.0	7,697.6	8,436.0	7,697.6	40.4	53.9	0.00	2,160.0	-1,879.4	1,318.1	1,233.6	15.605	
8,200.0	7,797.6	8,536.0	7,797.6	40.4	53.9	0.00	2,160.0	-1,879.4	1,318.1	1,233.6	15.594	
8,219.4	7,817.0	8,555.4	7,817.0	40.4	53.9	0.00	2,160.0	-1,879.4	1,318.1	1,233.6	15.593	



Anticollision Report



Company:	Laramie Energy, LLC	Local Co-ordinate Reference:	Well Laramie 29-01 0993-20-17E - Slot B7
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 0993-20-17E	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	-46.74	27.4	-29.1	40.0				
100.0	100.0	100.0	100.0	0.8	0.8	-46.74	27.4	-29.1	40.0	38.4	25.255		
200.0	200.0	200.0	200.0	1.4	1.4	-46.74	27.4	-29.1	40.0	37.2	14.141		
210.0	210.0	210.0	210.0	1.5	1.4	-46.74	27.4	-29.1	40.0	37.1	13.776	CC	
300.0	300.0	299.4	299.4	1.9	1.7	-46.89	27.5	-29.4	40.3	36.7	11.393	ES	
400.0	400.0	397.8	397.7	2.2	2.8	42.29	28.7	-32.8	42.7	37.9	8.809		
500.0	499.8	496.0	495.6	3.6	4.2	43.04	31.4	-40.1	46.0	39.0	6.557		
600.0	599.3	593.9	592.8	4.8	4.5	45.43	35.7	-51.1	50.2	42.1	6.215		
700.0	698.3	691.4	689.0	5.8	5.1	50.63	43.0	-64.8	55.7	46.7	6.197	SF	
800.0	796.7	788.4	784.0	6.0	6.0	51.10	53.4	-81.0	63.0	53.5	6.618		
900.0	894.3	885.0	877.9	6.6	6.7	50.94	67.0	-99.5	71.1	60.7	6.845		
1,000.0	991.0	981.3	970.4	7.3	7.5	51.69	83.6	-120.4	79.9	68.6	7.072		
1,100.0	1,086.6	1,077.3	1,061.5	7.9	8.2	52.90	103.2	-143.6	89.5	77.3	7.349		
1,200.0	1,181.0	1,172.9	1,150.9	8.6	8.8	54.33	125.8	-169.0	99.7	86.7	7.660		
1,300.0	1,273.9	1,268.3	1,238.5	9.2	9.5	55.83	151.2	-196.5	110.5	96.6	7.968		
1,400.0	1,365.6	1,363.2	1,324.3	9.5	10.1	58.21	179.3	-226.1	122.8	108.1	8.388		
1,500.0	1,457.3	1,457.5	1,407.6	9.8	10.6	59.69	210.1	-257.6	138.6	123.0	8.884		
1,600.0	1,549.0	1,554.6	1,492.1	10.2	10.9	60.29	243.8	-291.6	156.8	140.1	9.403		
1,700.0	1,640.6	1,652.9	1,577.6	10.6	11.3	60.74	278.0	-326.0	175.1	157.2	9.820		
1,800.0	1,732.3	1,751.2	1,663.1	10.9	11.6	61.11	312.2	-360.4	193.4	174.4	10.155		
1,900.0	1,824.0	1,849.5	1,748.6	11.3	12.0	61.41	346.3	-394.9	211.7	191.4	10.428		
2,000.0	1,915.6	1,947.8	1,834.1	11.8	12.4	61.67	380.5	-429.3	230.1	208.5	10.652		
2,100.0	2,007.3	2,046.1	1,919.6	12.2	12.9	61.88	414.7	-463.7	248.4	225.5	10.836		
2,200.0	2,099.0	2,144.4	2,005.1	12.7	13.4	62.07	448.9	-498.2	266.8	242.5	10.989		
2,300.0	2,190.7	2,242.7	2,090.5	13.2	14.0	62.24	483.1	-532.6	285.1	259.5	11.120		
2,400.0	2,282.3	2,341.0	2,176.0	13.8	14.8	62.38	517.3	-567.0	303.4	276.4	11.229		
2,500.0	2,374.0	2,439.3	2,261.5	14.4	15.7	62.51	551.5	-601.5	321.8	293.4	11.321		
2,600.0	2,465.7	2,537.6	2,347.0	15.0	16.5	62.62	585.7	-635.9	340.1	310.3	11.400		
2,700.0	2,557.3	2,635.9	2,432.5	15.7	17.4	62.72	619.9	-670.3	358.5	327.2	11.469		
2,800.0	2,649.0	2,734.2	2,518.0	16.4	18.3	62.81	654.1	-704.8	376.8	344.2	11.528		
2,900.0	2,740.7	2,832.5	2,603.5	17.1	19.2	62.90	688.3	-739.2	395.2	361.1	11.579		
3,000.0	2,832.4	2,930.8	2,689.0	17.8	20.1	62.97	722.5	-773.6	413.6	378.0	11.625		
3,100.0	2,924.0	3,029.1	2,774.4	18.5	21.0	63.04	756.7	-808.0	431.9	394.9	11.664		
3,200.0	3,015.7	3,127.4	2,859.9	19.2	21.9	63.11	790.9	-842.5	450.3	411.8	11.700		
3,300.0	3,107.4	3,225.7	2,945.4	20.0	22.8	63.17	825.0	-876.9	468.6	428.7	11.731		
3,400.0	3,199.0	3,324.0	3,030.9	20.7	23.7	63.22	859.2	-911.3	487.0	445.6	11.759		
3,500.0	3,290.7	3,422.3	3,116.4	21.4	24.7	63.27	893.4	-945.8	505.3	462.5	11.784		
3,600.0	3,382.4	3,520.6	3,201.9	22.2	25.6	63.32	927.6	-980.2	523.7	479.3	11.806		
3,700.0	3,474.0	3,618.9	3,287.4	22.9	26.5	63.36	961.8	-1,014.6	542.1	496.2	11.826		
3,800.0	3,565.7	3,717.2	3,372.9	23.7	27.4	63.40	996.0	-1,049.1	560.4	513.1	11.844		
3,900.0	3,657.4	3,815.5	3,458.4	24.4	28.3	63.44	1,030.2	-1,083.5	578.8	530.0	11.861		
4,000.0	3,749.1	3,913.8	3,543.8	25.2	29.2	63.48	1,064.4	-1,117.9	597.1	546.8	11.876		
4,100.0	3,840.7	4,012.1	3,629.3	25.9	30.1	63.51	1,098.6	-1,152.3	615.5	563.7	11.890		
4,200.0	3,932.4	4,110.4	3,714.8	26.6	31.1	63.54	1,132.8	-1,186.8	633.8	580.6	11.902		
4,300.0	4,024.1	4,208.7	3,800.3	27.4	32.0	63.57	1,167.0	-1,221.2	652.2	597.5	11.914		
4,400.0	4,115.7	4,307.0	3,885.8	28.1	32.9	63.60	1,201.2	-1,255.6	670.6	614.3	11.924		
4,500.0	4,207.4	4,405.3	3,971.3	28.9	33.8	63.63	1,235.4	-1,290.1	688.9	631.2	11.934		
4,600.0	4,299.1	4,503.6	4,056.8	29.6	34.7	63.66	1,269.5	-1,324.5	707.3	648.1	11.943		
4,700.0	4,390.8	4,601.9	4,142.3	30.4	35.7	63.68	1,303.7	-1,358.9	725.6	664.9	11.951		
4,800.0	4,482.4	4,700.2	4,227.7	31.1	36.6	63.70	1,337.9	-1,393.4	744.0	681.8	11.958		
4,900.0	4,574.1	4,798.5	4,313.2	31.9	37.5	63.72	1,372.1	-1,427.8	762.4	698.6	11.965		
5,000.0	4,665.8	4,896.8	4,398.7	32.6	38.4	63.75	1,406.3	-1,462.2	780.7	715.5	11.972		

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 0993-20-17E - Slot B7
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 0993-20-17E	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
5,100.0	4,757.4	4,995.1	4,484.2	33.4	39.3	63.77	1,440.5	-1,496.7	799.1	732.4	11.978	
5,200.0	4,849.1	5,093.4	4,569.7	34.1	40.3	63.78	1,474.7	-1,531.1	817.4	749.2	11.984	
5,300.0	4,940.8	5,191.7	4,655.2	34.9	41.2	63.80	1,508.9	-1,565.5	835.8	766.1	11.989	
5,400.0	5,032.5	5,290.0	4,740.7	35.6	42.1	63.82	1,543.1	-1,599.9	854.2	782.9	11.994	
5,500.0	5,124.1	5,388.3	4,826.2	36.4	43.0	63.84	1,577.3	-1,634.4	872.5	799.8	11.998	
5,600.0	5,216.6	5,486.4	4,911.5	37.1	43.9	64.16	1,611.4	-1,668.7	891.8	817.6	12.025	
5,700.0	5,310.6	5,611.6	5,021.4	37.7	45.1	64.26	1,653.6	-1,711.3	911.8	835.9	12.012	
5,800.0	5,406.1	5,748.2	5,144.9	38.3	46.1	64.31	1,694.9	-1,752.8	929.8	852.2	11.979	
5,900.0	5,502.7	5,886.6	5,273.2	38.7	47.1	64.35	1,731.3	-1,789.5	945.6	866.5	11.955	
6,000.0	5,600.4	6,026.6	5,406.0	39.1	47.9	64.37	1,762.5	-1,820.9	959.0	878.7	11.944	
6,100.0	5,698.9	6,168.0	5,542.5	39.4	48.5	64.37	1,788.2	-1,846.8	970.0	888.8	11.943	
6,200.0	5,798.1	6,310.5	5,682.2	39.6	49.0	64.36	1,808.1	-1,866.8	978.6	896.7	11.952	
6,300.0	5,897.7	6,453.9	5,824.2	39.8	49.3	64.33	1,821.8	-1,880.6	984.6	902.4	11.974	
6,400.0	5,997.6	6,597.9	5,967.8	39.9	49.5	64.28	1,829.3	-1,888.2	988.1	905.8	12.007	
6,500.0	6,097.6	6,727.7	6,097.6	39.9	49.6	-0.59	1,830.8	-1,889.6	988.9	906.8	12.041	
6,600.0	6,197.6	6,827.7	6,197.6	39.9	49.6	-0.59	1,830.8	-1,889.6	988.9	906.7	12.031	
6,700.0	6,297.6	6,927.7	6,297.6	40.0	49.6	-0.59	1,830.8	-1,889.6	988.9	906.6	12.022	
6,800.0	6,397.6	7,027.7	6,397.6	40.0	49.7	-0.59	1,830.8	-1,889.6	988.9	906.6	12.014	
6,900.0	6,497.6	7,127.7	6,497.6	40.0	49.7	-0.59	1,830.8	-1,889.6	988.9	906.5	12.006	
7,000.0	6,597.6	7,227.7	6,597.6	40.0	49.7	-0.59	1,830.8	-1,889.6	988.9	906.5	11.997	
7,100.0	6,697.6	7,327.7	6,697.6	40.1	49.7	-0.59	1,830.8	-1,889.6	988.9	906.4	11.989	
7,200.0	6,797.6	7,427.7	6,797.6	40.1	49.7	-0.59	1,830.8	-1,889.6	988.9	906.4	11.980	
7,300.0	6,897.6	7,527.7	6,897.6	40.1	49.8	-0.59	1,830.8	-1,889.6	988.9	906.3	11.972	
7,400.0	6,997.6	7,627.7	6,997.6	40.2	49.8	-0.59	1,830.8	-1,889.6	988.9	906.2	11.963	
7,500.0	7,097.6	7,727.7	7,097.6	40.2	49.8	-0.59	1,830.8	-1,889.6	988.9	906.2	11.955	
7,600.0	7,197.6	7,827.7	7,197.6	40.2	49.8	-0.59	1,830.8	-1,889.6	988.9	906.1	11.946	
7,700.0	7,297.6	7,927.7	7,297.6	40.2	49.9	-0.59	1,830.8	-1,889.6	988.9	906.1	11.938	
7,800.0	7,397.6	8,027.7	7,397.6	40.3	49.9	-0.59	1,830.8	-1,889.6	988.9	906.0	11.929	
7,900.0	7,497.6	8,127.7	7,497.6	40.3	49.9	-0.59	1,830.8	-1,889.6	988.9	905.9	11.921	
8,000.0	7,597.6	8,227.7	7,597.6	40.3	49.9	-0.59	1,830.8	-1,889.6	988.9	905.9	11.912	
8,100.0	7,697.6	8,327.7	7,697.6	40.4	50.0	-0.59	1,830.8	-1,889.6	988.9	905.8	11.903	
8,200.0	7,797.6	8,427.7	7,797.6	40.4	50.0	-0.59	1,830.8	-1,889.6	988.9	905.8	11.895	
8,219.4	7,817.0	8,447.1	7,817.0	40.4	50.0	-0.59	1,830.8	-1,889.6	988.9	905.8	11.893	

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 0993-20-17E - Slot B7
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 0993-20-17E	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)	Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	-46.72	20.6	-21.8	30.0					
100.0	100.0	100.0	100.0	0.8	0.8	-46.72	20.6	-21.8	30.0	28.4	18.930			
200.0	200.0	200.0	200.0	1.4	1.4	-46.72	20.6	-21.8	30.0	27.2	10.600			
300.0	300.0	300.0	300.0	1.9	1.9	-46.72	20.6	-21.8	30.0	26.3	8.028 CC			
400.0	400.0	399.0	399.0	2.2	2.3	43.35	20.8	-23.2	30.3	25.9	6.883			
500.0	499.8	497.7	497.4	3.6	4.0	43.67	21.9	-29.5	31.7	25.1	4.797 ES			
600.0	599.3	596.2	595.3	4.8	5.2	44.18	23.9	-40.8	34.3	25.9	4.068 SF			
700.0	698.3	694.6	692.4	5.8	5.6	47.46	28.0	-55.7	38.1	28.8	4.086			
800.0	796.7	792.6	788.6	6.0	6.3	47.45	35.4	-73.3	43.1	33.4	4.430			
900.0	894.3	890.4	883.7	6.6	7.0	47.11	45.8	-93.4	48.7	38.1	4.624			
1,000.0	991.0	988.0	977.7	7.3	7.6	47.88	59.4	-116.0	54.7	43.3	4.801			
1,100.0	1,086.6	1,085.3	1,070.2	7.9	8.3	49.25	76.0	-141.1	61.3	49.0	5.006			
1,200.0	1,181.0	1,182.4	1,161.2	8.6	8.9	50.92	95.6	-168.5	68.3	55.3	5.233			
1,300.0	1,273.9	1,279.3	1,250.6	9.2	9.5	52.72	118.2	-198.3	75.9	62.0	5.459			
1,400.0	1,365.6	1,375.8	1,338.1	9.5	10.1	55.26	143.7	-230.3	84.8	70.2	5.791			
1,500.0	1,457.3	1,473.8	1,425.4	9.8	10.5	56.71	171.9	-264.7	96.8	81.2	6.216			
1,600.0	1,549.0	1,573.1	1,513.7	10.2	10.8	57.76	200.8	-299.6	109.0	92.4	6.564			
1,700.0	1,640.6	1,672.3	1,601.9	10.6	11.1	58.60	229.6	-334.6	121.3	103.5	6.840			
1,800.0	1,732.3	1,771.5	1,690.2	10.9	11.5	59.29	258.4	-369.6	133.6	114.6	7.061			
1,900.0	1,824.0	1,870.8	1,778.5	11.3	11.9	59.85	287.3	-404.6	145.9	125.7	7.237			
2,000.0	1,915.6	1,970.0	1,866.7	11.8	12.3	60.33	316.1	-439.6	158.2	136.8	7.381			
2,100.0	2,007.3	2,069.2	1,955.0	12.2	12.8	60.74	345.0	-474.5	170.5	147.8	7.497			
2,200.0	2,099.0	2,168.4	2,043.3	12.7	13.3	61.10	373.8	-509.5	182.9	158.8	7.594			
2,300.0	2,190.7	2,267.7	2,131.5	13.2	13.9	61.41	402.6	-544.5	195.2	169.8	7.673			
2,400.0	2,282.3	2,366.9	2,219.8	13.8	14.6	61.68	431.5	-579.5	207.5	180.7	7.740			
2,500.0	2,374.0	2,466.1	2,308.1	14.4	15.4	61.93	460.3	-614.5	219.9	191.7	7.796			
2,600.0	2,465.7	2,565.4	2,396.3	15.0	16.2	62.14	489.2	-649.5	232.3	202.6	7.844			
2,700.0	2,557.3	2,664.6	2,484.6	15.7	17.0	62.34	518.0	-684.4	244.6	213.6	7.884			
2,800.0	2,649.0	2,763.8	2,572.9	16.4	17.8	62.51	546.8	-719.4	257.0	224.5	7.919			
2,900.0	2,740.7	2,863.1	2,661.1	17.1	18.6	62.67	575.7	-754.4	269.3	235.5	7.949			
3,000.0	2,832.4	2,962.3	2,749.4	17.8	19.4	62.82	604.5	-789.4	281.7	246.4	7.976			
3,100.0	2,924.0	3,061.5	2,837.7	18.5	20.2	62.95	633.4	-824.4	294.1	257.3	7.998			
3,200.0	3,015.7	3,160.7	2,925.9	19.2	21.1	63.08	662.2	-859.4	306.4	268.2	8.018			
3,300.0	3,107.4	3,260.0	3,014.2	20.0	21.9	63.19	691.0	-894.3	318.8	279.1	8.036			
3,400.0	3,199.0	3,359.2	3,102.5	20.7	22.8	63.30	719.9	-929.3	331.2	290.0	8.051			
3,500.0	3,290.7	3,458.4	3,190.7	21.4	23.6	63.39	748.7	-964.3	343.5	301.0	8.065			
3,600.0	3,382.4	3,557.7	3,279.0	22.2	24.4	63.48	777.5	-999.3	355.9	311.9	8.077			
3,700.0	3,474.0	3,656.9	3,367.3	22.9	25.3	63.57	806.4	-1,034.3	368.3	322.8	8.088			
3,800.0	3,565.7	3,756.1	3,455.5	23.7	26.1	63.65	835.2	-1,069.2	380.7	333.7	8.098			
3,900.0	3,657.4	3,855.4	3,543.8	24.4	27.0	63.72	864.1	-1,104.2	393.0	344.6	8.107			
4,000.0	3,749.1	3,954.6	3,632.1	25.2	27.8	63.79	892.9	-1,139.2	405.4	355.5	8.115			
4,100.0	3,840.7	4,053.8	3,720.3	25.9	28.7	63.86	921.7	-1,174.2	417.8	366.4	8.122			
4,200.0	3,932.4	4,153.0	3,808.6	26.6	29.5	63.92	950.6	-1,209.2	430.2	377.2	8.128			
4,300.0	4,024.1	4,252.3	3,896.9	27.4	30.4	63.98	979.4	-1,244.2	442.5	388.1	8.134			
4,400.0	4,115.7	4,351.5	3,985.1	28.1	31.2	64.03	1,008.3	-1,279.1	454.9	399.0	8.139			
4,500.0	4,207.4	4,450.7	4,073.4	28.9	32.1	64.08	1,037.1	-1,314.1	467.3	409.9	8.144			
4,600.0	4,299.1	4,550.0	4,161.7	29.6	32.9	64.13	1,065.9	-1,349.1	479.7	420.8	8.149			
4,700.0	4,390.8	4,649.2	4,249.9	30.4	33.8	64.18	1,094.8	-1,384.1	492.1	431.7	8.153			
4,800.0	4,482.4	4,748.4	4,338.2	31.1	34.6	64.22	1,123.6	-1,419.1	504.4	442.6	8.156			
4,900.0	4,574.1	4,847.7	4,426.5	31.9	35.5	64.27	1,152.5	-1,454.1	516.8	453.5	8.160			
5,000.0	4,665.8	4,946.9	4,514.7	32.6	36.3	64.31	1,181.3	-1,489.0	529.2	464.4	8.163			
5,100.0	4,757.4	5,046.1	4,603.0	33.4	37.2	64.35	1,210.1	-1,524.0	541.6	475.3	8.166			

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 0993-20-17E - Slot B7
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 0993-20-17E	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	4,849.1	5,145.3	4,691.3	34.1	38.0	64.38	1,239.0	-1,559.0	554.0	486.1	8.169	
5,300.0	4,940.8	5,244.6	4,779.6	34.9	38.9	64.42	1,267.8	-1,594.0	566.3	497.0	8.171	
5,400.0	5,032.5	5,343.8	4,867.8	35.6	39.8	64.45	1,296.7	-1,629.0	578.7	507.9	8.173	
5,500.0	5,124.1	5,443.0	4,956.1	36.4	40.6	64.48	1,325.5	-1,663.9	591.1	518.8	8.175	
5,600.0	5,216.6	5,549.3	5,050.8	37.1	41.5	64.64	1,356.1	-1,701.1	604.2	530.3	8.181	
5,700.0	5,310.6	5,668.3	5,159.0	37.7	42.4	64.70	1,387.7	-1,739.4	616.5	541.1	8.172	
5,800.0	5,406.1	5,788.1	5,270.3	38.3	43.2	64.74	1,415.7	-1,773.4	627.5	550.6	8.165	
5,900.0	5,502.7	5,908.6	5,384.5	38.7	43.9	64.77	1,440.2	-1,803.1	637.0	559.0	8.162	
6,000.0	5,600.4	6,029.6	5,501.1	39.1	44.5	64.79	1,460.9	-1,828.2	645.1	566.1	8.165	
6,100.0	5,698.9	6,151.2	5,619.7	39.4	45.0	64.79	1,477.8	-1,848.6	651.7	571.9	8.171	
6,200.0	5,798.1	6,273.2	5,740.0	39.6	45.3	64.78	1,490.6	-1,864.2	656.8	576.5	8.180	
6,300.0	5,897.7	6,395.5	5,861.5	39.8	45.6	64.75	1,499.4	-1,874.8	660.4	579.8	8.192	
6,400.0	5,997.6	6,518.0	5,983.8	39.9	45.7	64.70	1,504.0	-1,880.5	662.4	581.7	8.208	
6,500.0	6,097.6	6,631.9	6,097.6	39.9	45.8	-0.17	1,504.8	-1,881.4	662.9	582.2	8.221	
6,600.0	6,197.6	6,731.9	6,197.6	39.9	45.8	-0.17	1,504.8	-1,881.4	662.9	582.2	8.214	
6,700.0	6,297.6	6,831.9	6,297.6	40.0	45.8	-0.17	1,504.8	-1,881.4	662.9	582.1	8.208	
6,800.0	6,397.6	6,931.9	6,397.6	40.0	45.8	-0.17	1,504.8	-1,881.4	662.9	582.1	8.203	
6,900.0	6,497.6	7,031.9	6,497.6	40.0	45.9	-0.17	1,504.8	-1,881.4	662.9	582.0	8.197	
7,000.0	6,597.6	7,131.9	6,597.6	40.0	45.9	-0.17	1,504.8	-1,881.4	662.9	581.9	8.191	
7,100.0	6,697.6	7,231.9	6,697.6	40.1	45.9	-0.17	1,504.8	-1,881.4	662.9	581.9	8.185	
7,200.0	6,797.6	7,331.9	6,797.6	40.1	45.9	-0.17	1,504.8	-1,881.4	662.9	581.8	8.179	
7,300.0	6,897.6	7,431.9	6,897.6	40.1	46.0	-0.17	1,504.8	-1,881.4	662.9	581.8	8.173	
7,400.0	6,997.6	7,531.9	6,997.6	40.2	46.0	-0.17	1,504.8	-1,881.4	662.9	581.7	8.167	
7,500.0	7,097.6	7,631.9	7,097.6	40.2	46.0	-0.17	1,504.8	-1,881.4	662.9	581.7	8.161	
7,600.0	7,197.6	7,731.9	7,197.6	40.2	46.0	-0.17	1,504.8	-1,881.4	662.9	581.6	8.155	
7,700.0	7,297.6	7,831.9	7,297.6	40.2	46.1	-0.17	1,504.8	-1,881.4	662.9	581.5	8.149	
7,800.0	7,397.6	7,931.9	7,397.6	40.3	46.1	-0.17	1,504.8	-1,881.4	662.9	581.5	8.143	
7,900.0	7,497.6	8,031.9	7,497.6	40.3	46.1	-0.17	1,504.8	-1,881.4	662.9	581.4	8.137	
8,000.0	7,597.6	8,131.9	7,597.6	40.3	46.1	-0.17	1,504.8	-1,881.4	662.9	581.3	8.131	
8,100.0	7,697.6	8,231.9	7,697.6	40.4	46.2	-0.17	1,504.8	-1,881.4	662.9	581.3	8.124	
8,200.0	7,797.6	8,331.9	7,797.6	40.4	46.2	-0.17	1,504.8	-1,881.4	662.9	581.2	8.119	
8,219.4	7,817.0	8,351.2	7,817.0	40.4	46.2	-0.17	1,504.8	-1,881.4	662.9	581.2	8.118	

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 0993-20-17E - Slot B7
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 0993-20-17E	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	-46.72	6.8	-7.3	10.0				
100.0	100.0	100.0	100.0	0.8	0.8	-46.72	6.8	-7.3	10.0	8.4	6.307		
200.0	200.0	200.0	200.0	1.4	1.4	-46.72	6.8	-7.3	10.0	7.2	3.532		
210.0	210.0	210.0	210.0	1.5	1.4	-46.72	6.8	-7.3	10.0	7.1	3.443	CC	
300.0	300.0	299.9	299.9	1.9	1.7	-47.92	6.9	-7.6	10.3	6.7	2.916	ES	
400.0	400.0	399.4	399.3	2.2	2.8	35.06	7.2	-11.5	12.6	7.7	2.595		
500.0	499.8	498.8	498.4	3.6	4.2	31.29	7.9	-19.7	15.3	8.0	2.112	Level 1	
600.0	599.3	598.1	596.9	4.8	4.9	29.90	9.1	-32.1	18.2	9.3	2.038	Level 1, SF	
700.0	698.3	697.2	694.7	5.8	5.3	34.91	12.3	-47.9	21.5	11.6	2.174	Level 1	
800.0	796.7	796.1	791.5	6.0	6.1	37.64	18.5	-66.6	25.7	15.4	2.507		
900.0	894.3	894.7	887.3	6.6	6.8	38.55	27.6	-88.3	30.3	19.3	2.757		
1,000.0	991.0	993.1	981.9	7.3	7.5	39.61	39.6	-112.8	35.2	23.4	2.963		
1,100.0	1,086.6	1,091.4	1,075.0	7.9	8.2	40.72	54.5	-140.2	40.4	27.6	3.152		
1,200.0	1,181.0	1,189.5	1,166.7	8.6	8.9	41.84	72.1	-170.2	45.8	32.0	3.328		
1,300.0	1,273.9	1,287.3	1,256.7	9.2	9.5	42.94	92.5	-203.0	51.3	36.5	3.472		
1,400.0	1,365.6	1,386.8	1,346.9	9.5	10.0	45.26	115.2	-238.0	56.7	41.3	3.668		
1,500.0	1,457.3	1,486.6	1,437.4	9.8	10.4	47.63	138.0	-273.3	62.2	46.0	3.834		
1,600.0	1,549.0	1,586.4	1,528.0	10.2	10.7	49.62	160.8	-308.6	67.7	50.6	3.959		
1,700.0	1,640.6	1,686.2	1,618.5	10.6	11.1	51.30	183.6	-343.9	73.3	55.2	4.052		
1,800.0	1,732.3	1,786.0	1,709.1	10.9	11.5	52.75	206.4	-379.1	79.0	59.8	4.119		
1,900.0	1,824.0	1,885.9	1,799.7	11.3	11.9	54.00	229.2	-414.4	84.7	64.4	4.167		
2,000.0	1,915.6	1,985.7	1,890.2	11.8	12.3	55.09	252.0	-449.7	90.4	68.9	4.201		
2,100.0	2,007.3	2,085.5	1,980.8	12.2	12.7	56.05	274.8	-484.9	96.2	73.4	4.224		
2,200.0	2,099.0	2,185.3	2,071.3	12.7	13.2	56.90	297.6	-520.2	102.0	77.9	4.239		
2,300.0	2,190.7	2,285.1	2,161.9	13.2	13.7	57.66	320.4	-555.5	107.8	82.4	4.248		
2,400.0	2,282.3	2,385.0	2,252.4	13.8	14.3	58.34	343.2	-590.7	113.7	86.9	4.254		
2,500.0	2,374.0	2,484.8	2,343.0	14.4	15.0	58.96	365.9	-626.0	119.5	91.4	4.256		
2,600.0	2,465.7	2,584.6	2,433.6	15.0	15.7	59.52	388.7	-661.3	125.4	95.9	4.256		
2,700.0	2,557.3	2,684.4	2,524.1	15.7	16.4	60.02	411.5	-696.6	131.2	100.4	4.254		
2,800.0	2,649.0	2,784.3	2,614.7	16.4	17.1	60.49	434.3	-731.8	137.1	104.9	4.252		
2,900.0	2,740.7	2,884.1	2,705.2	17.1	17.9	60.92	457.1	-767.1	143.0	109.3	4.248		
3,000.0	2,832.4	2,983.9	2,795.8	17.8	18.6	61.31	479.9	-802.4	148.9	113.8	4.244		
3,100.0	2,924.0	3,083.7	2,886.3	18.5	19.4	61.67	502.7	-837.6	154.8	118.3	4.239		
3,200.0	3,015.7	3,183.5	2,976.9	19.2	20.2	62.01	525.5	-872.9	160.7	122.8	4.234		
3,300.0	3,107.4	3,283.4	3,067.5	20.0	21.0	62.32	548.3	-908.2	166.6	127.2	4.229		
3,400.0	3,199.0	3,383.2	3,158.0	20.7	21.7	62.61	571.1	-943.5	172.5	131.7	4.224		
3,500.0	3,290.7	3,483.0	3,248.6	21.4	22.5	62.88	593.9	-978.7	178.5	136.2	4.219		
3,600.0	3,382.4	3,582.8	3,339.1	22.2	23.3	63.14	616.7	-1,014.0	184.4	140.6	4.214		
3,700.0	3,474.0	3,682.6	3,429.7	22.9	24.1	63.37	639.5	-1,049.3	190.3	145.1	4.209		
3,800.0	3,565.7	3,782.5	3,520.2	23.7	24.9	63.60	662.3	-1,084.5	196.3	149.6	4.204		
3,900.0	3,657.4	3,882.3	3,610.8	24.4	25.6	63.81	685.1	-1,119.8	202.2	154.0	4.200		
4,000.0	3,749.1	3,982.1	3,701.3	25.2	26.4	64.01	707.9	-1,155.1	208.1	158.5	4.195		
4,100.0	3,840.7	4,081.9	3,791.9	25.9	27.2	64.19	730.7	-1,190.4	214.1	163.0	4.190		
4,200.0	3,932.4	4,181.7	3,882.5	26.6	28.0	64.37	753.5	-1,225.6	220.0	167.5	4.186		
4,300.0	4,024.1	4,281.6	3,973.0	27.4	28.8	64.54	776.3	-1,260.9	226.0	171.9	4.181		
4,400.0	4,115.7	4,381.4	4,063.6	28.1	29.6	64.70	799.1	-1,296.2	231.9	176.4	4.177		
4,500.0	4,207.4	4,481.2	4,154.1	28.9	30.4	64.85	821.9	-1,331.4	237.9	180.9	4.173		
4,600.0	4,299.1	4,581.0	4,244.7	29.6	31.1	65.00	844.7	-1,366.7	243.8	185.3	4.169		
4,700.0	4,390.8	4,680.9	4,335.2	30.4	31.9	65.13	867.5	-1,402.0	249.8	189.8	4.165		
4,800.0	4,482.4	4,780.7	4,425.8	31.1	32.7	65.26	890.3	-1,437.3	255.7	194.3	4.162		
4,900.0	4,574.1	4,880.5	4,516.4	31.9	33.5	65.39	913.1	-1,472.5	261.7	198.7	4.158		
5,000.0	4,665.8	4,980.3	4,606.9	32.6	34.3	65.51	935.9	-1,507.8	267.6	203.2	4.155		

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 0993-20-17E - Slot B7
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 0993-20-17E	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	
5,100.0	4,757.4	5,080.1	4,697.5	33.4	35.1	65.62	958.7	-1,543.1	273.6	207.7	4.151		
5,200.0	4,849.1	5,180.0	4,788.0	34.1	35.9	65.73	981.5	-1,578.3	279.5	212.1	4.148		
5,300.0	4,940.8	5,279.8	4,878.6	34.9	36.7	65.84	1,004.3	-1,613.6	285.5	216.6	4.145		
5,400.0	5,032.5	5,379.6	4,969.1	35.6	37.5	65.94	1,027.1	-1,648.9	291.4	221.1	4.142		
5,500.0	5,124.1	5,479.4	5,059.7	36.4	38.2	66.03	1,049.9	-1,684.2	297.4	225.5	4.139		
5,600.0	5,216.6	5,584.4	5,155.4	37.1	39.0	66.09	1,073.2	-1,720.3	303.6	230.2	4.139		
5,700.0	5,310.6	5,691.6	5,255.1	37.7	39.8	66.11	1,094.7	-1,753.5	309.2	234.5	4.138		
5,800.0	5,406.1	5,799.1	5,356.8	38.3	40.4	66.12	1,113.6	-1,782.8	314.2	238.3	4.138		
5,900.0	5,502.7	5,906.7	5,460.1	38.7	41.0	66.13	1,130.0	-1,808.1	318.6	241.6	4.139		
6,000.0	5,600.4	6,014.5	5,564.8	39.1	41.4	66.12	1,143.7	-1,829.3	322.2	244.4	4.142		
6,100.0	5,698.9	6,122.4	5,670.8	39.4	41.8	66.10	1,154.7	-1,846.4	325.2	246.7	4.145		
6,200.0	5,798.1	6,230.4	5,777.7	39.6	42.0	66.08	1,163.1	-1,859.3	327.4	248.5	4.149		
6,300.0	5,897.7	6,338.6	5,885.3	39.8	42.2	66.04	1,168.7	-1,868.0	329.0	249.8	4.153		
6,400.0	5,997.6	6,446.7	5,993.3	39.9	42.3	66.00	1,171.5	-1,872.4	329.9	250.5	4.157		
6,500.0	6,097.6	6,551.0	6,097.6	39.9	42.4	1.13	1,171.9	-1,873.0	330.0	250.7	4.158		
6,600.0	6,197.6	6,651.0	6,197.6	39.9	42.4	1.13	1,171.9	-1,873.0	330.0	250.6	4.154		
6,700.0	6,297.6	6,751.0	6,297.6	40.0	42.4	1.13	1,171.9	-1,873.0	330.0	250.5	4.151		
6,800.0	6,397.6	6,851.0	6,397.6	40.0	42.5	1.13	1,171.9	-1,873.0	330.0	250.5	4.148		
6,900.0	6,497.6	6,951.0	6,497.6	40.0	42.5	1.13	1,171.9	-1,873.0	330.0	250.4	4.145		
7,000.0	6,597.6	7,051.0	6,597.6	40.0	42.5	1.13	1,171.9	-1,873.0	330.0	250.4	4.142		
7,100.0	6,697.6	7,151.0	6,697.6	40.1	42.6	1.13	1,171.9	-1,873.0	330.0	250.3	4.139		
7,200.0	6,797.6	7,251.0	6,797.6	40.1	42.6	1.13	1,171.9	-1,873.0	330.0	250.2	4.136		
7,300.0	6,897.6	7,351.0	6,897.6	40.1	42.6	1.13	1,171.9	-1,873.0	330.0	250.2	4.133		
7,400.0	6,997.6	7,451.0	6,997.6	40.2	42.6	1.13	1,171.9	-1,873.0	330.0	250.1	4.130		
7,500.0	7,097.6	7,551.0	7,097.6	40.2	42.7	1.13	1,171.9	-1,873.0	330.0	250.1	4.126		
7,600.0	7,197.6	7,651.0	7,197.6	40.2	42.7	1.13	1,171.9	-1,873.0	330.0	250.0	4.123		
7,700.0	7,297.6	7,751.0	7,297.6	40.2	42.7	1.13	1,171.9	-1,873.0	330.0	249.9	4.120		
7,800.0	7,397.6	7,851.0	7,397.6	40.3	42.7	1.13	1,171.9	-1,873.0	330.0	249.9	4.117		
7,900.0	7,497.6	7,951.0	7,497.6	40.3	42.8	1.13	1,171.9	-1,873.0	330.0	249.8	4.114		
8,000.0	7,597.6	8,051.0	7,597.6	40.3	42.8	1.13	1,171.9	-1,873.0	330.0	249.8	4.111		
8,100.0	7,697.6	8,151.0	7,697.6	40.4	42.8	1.13	1,171.9	-1,873.0	330.0	249.7	4.108		
8,200.0	7,797.6	8,251.0	7,797.6	40.4	42.9	1.13	1,171.9	-1,873.0	330.0	249.6	4.104		
8,219.4	7,817.0	8,270.4	7,817.0	40.4	42.9	1.13	1,171.9	-1,873.0	330.0	249.6	4.104		

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 0993-20-17E - Slot B7
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 0993-20-17E	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	-13.7	14.6	20.0				
100.0	100.0	100.0	100.0	0.8	0.8	133.28	-13.7	14.6	20.0	18.4	12.623		
200.0	200.0	200.0	200.0	1.4	1.4	133.28	-13.7	14.6	20.0	17.2	7.068		
300.0	300.0	300.0	300.0	1.9	1.9	133.28	-13.7	14.6	20.0	16.3	5.353	CC	
400.0	400.0	400.3	400.3	2.2	2.1	-138.02	-13.7	14.0	20.5	16.3	4.849		
500.0	499.8	501.0	500.9	3.6	3.2	-139.93	-13.7	9.6	21.3	15.3	3.531		
600.0	599.3	601.7	601.2	4.8	4.5	-141.65	-13.7	0.7	22.1	14.1	2.757		
700.0	698.3	702.5	701.1	5.8	5.5	-143.20	-13.7	-12.5	22.9	13.2	2.353	Level 1, ES	
800.0	796.7	803.4	800.5	6.0	5.9	-149.35	-13.4	-30.1	23.8	13.5	2.321	Level 1	
900.0	894.3	904.5	899.2	6.6	6.4	-152.90	-11.2	-51.6	24.7	13.6	2.216	Level 1	
1,000.0	991.0	1,005.6	997.0	7.3	7.2	-152.94	-6.9	-76.8	25.8	13.6	2.113	Level 1	
1,100.0	1,086.6	1,106.6	1,093.6	7.9	7.9	-150.33	-0.4	-105.8	27.2	14.1	2.084	Level 1, SF	
1,200.0	1,181.0	1,207.7	1,188.8	8.6	8.6	-145.86	8.2	-138.5	29.1	15.4	2.132	Level 1	
1,300.0	1,273.9	1,308.4	1,282.2	9.2	9.0	-140.50	18.8	-174.5	31.9	17.9	2.280	Level 1	
1,400.0	1,365.6	1,408.2	1,374.4	9.5	9.3	-136.26	29.8	-211.1	37.1	22.7	2.581		
1,500.0	1,457.3	1,508.0	1,466.7	9.8	9.7	-132.86	40.8	-247.7	42.6	27.6	2.829		
1,600.0	1,549.0	1,607.8	1,558.9	10.2	10.0	-130.25	51.8	-284.3	48.3	32.3	3.025		
1,700.0	1,640.6	1,707.7	1,651.1	10.6	10.4	-128.19	62.8	-320.9	54.0	37.0	3.180		
1,800.0	1,732.3	1,807.5	1,743.3	10.9	10.8	-126.52	73.8	-357.5	59.8	41.7	3.303		
1,900.0	1,824.0	1,907.3	1,835.5	11.3	11.2	-125.16	84.8	-394.1	65.7	46.4	3.402		
2,000.0	1,915.6	2,007.1	1,927.7	11.8	11.6	-124.01	95.8	-430.7	71.6	51.0	3.483		
2,100.0	2,007.3	2,106.9	2,020.0	12.2	12.0	-123.04	106.8	-467.2	77.5	55.6	3.549		
2,200.0	2,099.0	2,206.8	2,112.2	12.7	12.4	-122.21	117.8	-503.8	83.4	60.2	3.604		
2,300.0	2,190.7	2,306.6	2,204.4	13.2	12.9	-121.49	128.8	-540.4	89.3	64.8	3.651		
2,400.0	2,282.3	2,406.4	2,296.6	13.8	13.4	-120.85	139.8	-577.0	95.2	69.4	3.691		
2,500.0	2,374.0	2,506.2	2,388.8	14.4	13.9	-120.30	150.8	-613.6	101.2	74.0	3.725		
2,600.0	2,465.7	2,606.0	2,481.0	15.0	14.4	-119.80	161.8	-650.2	107.2	78.6	3.755		
2,700.0	2,557.3	2,705.8	2,573.3	15.7	15.1	-119.36	172.8	-686.8	113.1	83.2	3.780		
2,800.0	2,649.0	2,805.7	2,665.5	16.4	15.7	-118.96	183.8	-723.4	119.1	87.8	3.803		
2,900.0	2,740.7	2,905.5	2,757.7	17.1	16.4	-118.60	194.8	-759.9	125.1	92.4	3.824		
3,000.0	2,832.4	3,005.3	2,849.9	17.8	17.1	-118.27	205.8	-796.5	131.1	97.0	3.842		
3,100.0	2,924.0	3,105.1	2,942.1	18.5	17.8	-117.97	216.8	-833.1	137.1	101.5	3.858		
3,200.0	3,015.7	3,204.9	3,034.3	19.2	18.5	-117.69	227.8	-869.7	143.1	106.1	3.872		
3,300.0	3,107.4	3,304.8	3,126.6	20.0	19.2	-117.44	238.8	-906.3	149.0	110.7	3.885		
3,400.0	3,199.0	3,404.6	3,218.8	20.7	19.9	-117.21	249.8	-942.9	155.0	115.3	3.897		
3,500.0	3,290.7	3,504.4	3,311.0	21.4	20.6	-116.99	260.8	-979.5	161.0	119.8	3.908		
3,600.0	3,382.4	3,604.2	3,403.2	22.2	21.3	-116.79	271.8	-1,016.1	167.0	124.4	3.918		
3,700.0	3,474.0	3,704.0	3,495.4	22.9	22.0	-116.61	282.8	-1,052.7	173.1	129.0	3.928		
3,800.0	3,565.7	3,803.8	3,587.7	23.7	22.8	-116.43	293.8	-1,089.2	179.1	133.6	3.936		
3,900.0	3,657.4	3,903.7	3,679.9	24.4	23.5	-116.27	304.8	-1,125.8	185.1	138.1	3.944		
4,000.0	3,749.1	4,003.5	3,772.1	25.2	24.2	-116.12	315.8	-1,162.4	191.1	142.7	3.951		
4,100.0	3,840.7	4,103.3	3,864.3	25.9	24.9	-115.98	326.8	-1,199.0	197.1	147.3	3.958		
4,200.0	3,932.4	4,203.1	3,956.5	26.6	25.6	-115.84	337.8	-1,235.6	203.1	151.9	3.964		
4,300.0	4,024.1	4,302.9	4,048.7	27.4	26.3	-115.72	348.8	-1,272.2	209.1	156.4	3.970		
4,400.0	4,115.7	4,402.8	4,141.0	28.1	27.1	-115.60	359.8	-1,308.8	215.1	161.0	3.976		
4,500.0	4,207.4	4,502.6	4,233.2	28.9	27.8	-115.48	370.8	-1,345.4	221.1	165.6	3.981		
4,600.0	4,299.1	4,602.4	4,325.4	29.6	28.5	-115.38	381.8	-1,381.9	227.2	170.2	3.986		
4,700.0	4,390.8	4,702.2	4,417.6	30.4	29.2	-115.27	392.8	-1,418.5	233.2	174.7	3.990		
4,800.0	4,482.4	4,802.0	4,509.8	31.1	29.9	-115.18	403.8	-1,455.1	239.2	179.3	3.994		
4,900.0	4,574.1	4,901.8	4,602.0	31.9	30.7	-115.09	414.8	-1,491.7	245.2	183.9	3.998		
5,000.0	4,665.8	5,001.7	4,694.3	32.6	31.4	-115.00	425.8	-1,528.3	251.2	188.5	4.002		
5,100.0	4,757.4	5,101.5	4,786.5	33.4	32.1	-114.92	436.8	-1,564.9	257.2	193.0	4.006		

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 0993-20-17E - Slot B7
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 0993-20-17E	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	4,849.1	5,201.3	4,878.7	34.1	32.8	-114.84	447.8	-1,601.5	263.3	197.6	4.009	
5,300.0	4,940.8	5,301.1	4,970.9	34.9	33.5	-114.76	458.8	-1,638.1	269.3	202.2	4.013	
5,400.0	5,032.5	5,400.9	5,063.1	35.6	34.3	-114.69	469.8	-1,674.7	275.3	206.7	4.016	
5,500.0	5,124.1	5,500.8	5,155.3	36.4	35.0	-114.62	480.8	-1,711.2	281.3	211.3	4.019	
5,600.0	5,216.6	5,597.2	5,245.1	37.1	35.6	-114.69	490.9	-1,744.8	287.1	215.7	4.024	
5,700.0	5,310.6	5,693.5	5,336.3	37.7	36.2	-114.77	499.9	-1,774.8	292.2	219.7	4.028	
5,800.0	5,406.1	5,789.9	5,428.6	38.3	36.7	-114.84	507.8	-1,801.0	296.7	223.1	4.033	
5,900.0	5,502.7	5,886.2	5,522.0	38.7	37.1	-114.91	514.6	-1,823.5	300.6	226.2	4.037	
6,000.0	5,600.4	5,982.5	5,616.3	39.1	37.5	-114.98	520.2	-1,842.2	303.9	228.7	4.041	
6,100.0	5,698.9	6,078.8	5,711.3	39.4	37.8	-115.05	524.7	-1,857.1	306.5	230.7	4.045	
6,200.0	5,798.1	6,175.0	5,806.9	39.6	38.0	-115.12	528.0	-1,868.1	308.5	232.3	4.047	
6,300.0	5,897.7	6,271.3	5,902.8	39.8	38.1	-115.18	530.1	-1,875.4	309.9	233.3	4.049	
6,400.0	5,997.6	6,367.5	5,999.0	39.9	38.2	-115.24	531.2	-1,878.7	310.6	233.9	4.048	
6,500.0	6,097.6	6,466.1	6,097.6	39.9	38.3	179.90	531.2	-1,879.0	310.7	233.9	4.045	
6,600.0	6,197.6	6,566.1	6,197.6	39.9	38.3	179.90	531.2	-1,879.0	310.7	233.8	4.042	
6,700.0	6,297.6	6,666.1	6,297.6	40.0	38.3	179.90	531.2	-1,879.0	310.7	233.7	4.039	
6,800.0	6,397.6	6,766.1	6,397.6	40.0	38.4	179.90	531.2	-1,879.0	310.7	233.7	4.035	
6,900.0	6,497.6	6,866.1	6,497.6	40.0	38.4	179.90	531.2	-1,879.0	310.7	233.6	4.032	
7,000.0	6,597.6	6,966.1	6,597.6	40.0	38.4	179.90	531.2	-1,879.0	310.7	233.6	4.029	
7,100.0	6,697.6	7,066.1	6,697.6	40.1	38.5	179.90	531.2	-1,879.0	310.7	233.5	4.026	
7,200.0	6,797.6	7,166.1	6,797.6	40.1	38.5	179.90	531.2	-1,879.0	310.7	233.5	4.023	
7,300.0	6,897.6	7,266.1	6,897.6	40.1	38.5	179.90	531.2	-1,879.0	310.7	233.4	4.020	
7,400.0	6,997.6	7,366.1	6,997.6	40.2	38.6	179.90	531.2	-1,879.0	310.7	233.3	4.017	
7,500.0	7,097.6	7,466.1	7,097.6	40.2	38.6	179.90	531.2	-1,879.0	310.7	233.3	4.014	
7,600.0	7,197.6	7,566.1	7,197.6	40.2	38.6	179.90	531.2	-1,879.0	310.7	233.2	4.010	
7,700.0	7,297.6	7,666.1	7,297.6	40.2	38.6	179.90	531.2	-1,879.0	310.7	233.1	4.007	
7,800.0	7,397.6	7,766.1	7,397.6	40.3	38.7	179.90	531.2	-1,879.0	310.7	233.1	4.004	
7,900.0	7,497.6	7,866.1	7,497.6	40.3	38.7	179.90	531.2	-1,879.0	310.7	233.0	4.001	
8,000.0	7,597.6	7,966.1	7,597.6	40.3	38.7	179.90	531.2	-1,879.0	310.7	233.0	3.998	
8,100.0	7,697.6	8,066.1	7,697.6	40.4	38.8	179.90	531.2	-1,879.0	310.7	232.9	3.994	
8,200.0	7,797.6	8,166.1	7,797.6	40.4	38.8	179.90	531.2	-1,879.0	310.7	232.8	3.991	
8,219.4	7,817.0	8,185.5	7,817.0	40.4	38.8	179.90	531.2	-1,879.0	310.7	232.8	3.991	

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 0993-20-17E - Slot B7
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 0993-20-17E	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	-35.43	41.5	-29.6	51.0				
100.0	100.0	100.0	100.0	0.8	0.8	-35.43	41.5	-29.6	51.0	49.4	32.190		
200.0	200.0	200.0	200.0	1.4	1.4	-35.43	41.5	-29.6	51.0	48.2	18.024	CC	
300.0	300.0	299.2	299.1	1.9	2.1	-33.88	42.9	-28.8	51.7	47.9	13.808	ES	
400.0	400.0	397.8	397.6	2.2	3.6	62.60	47.9	-26.0	54.0	49.2	11.257		
500.0	499.8	495.3	494.6	3.6	4.8	75.26	56.5	-21.2	58.6	52.2	9.239		
600.0	599.3	591.0	589.3	4.8	5.7	90.63	68.4	-14.5	69.2	61.2	8.734	SF	
700.0	698.3	684.0	680.8	5.8	6.5	104.32	83.3	-6.2	88.5	78.9	9.199		
800.0	796.7	774.1	768.6	6.0	7.2	108.41	100.7	3.6	116.3	105.2	10.476		
900.0	894.3	861.4	852.9	6.6	7.9	109.66	120.5	14.7	149.7	137.2	11.952		
1,000.0	991.0	945.8	933.5	7.3	8.5	110.52	142.3	26.9	188.2	174.5	13.732		
1,100.0	1,086.6	1,027.1	1,010.2	7.9	9.0	111.05	165.7	40.1	231.3	216.6	15.752		
1,200.0	1,181.0	1,105.2	1,083.0	8.6	9.6	111.28	190.4	53.9	278.6	263.1	17.949		
1,300.0	1,273.9	1,180.0	1,151.8	9.2	10.0	111.27	216.2	68.4	329.9	313.6	20.249		
1,400.0	1,365.6	1,251.9	1,216.9	9.5	10.5	113.17	242.7	83.2	384.7	367.8	22.692		
1,500.0	1,457.3	1,321.5	1,279.0	9.8	10.9	115.16	270.0	98.6	442.4	424.8	25.104		
1,600.0	1,549.0	1,388.7	1,338.1	10.2	11.3	116.55	298.0	114.3	502.5	484.2	27.484		
1,700.0	1,640.6	1,453.7	1,394.2	10.6	11.7	117.53	326.5	130.2	564.7	545.8	29.820		
1,800.0	1,732.3	1,516.3	1,447.5	10.9	12.0	118.20	355.2	146.3	628.8	609.3	32.166		
1,900.0	1,824.0	1,582.9	1,503.2	11.3	12.2	118.70	387.0	164.2	694.6	674.4	34.462		
2,000.0	1,915.6	1,657.8	1,565.7	11.8	12.4	119.15	423.0	184.4	760.7	739.8	36.354		
2,100.0	2,007.3	1,732.7	1,628.3	12.2	12.7	119.54	459.0	204.6	826.8	805.1	38.056		
2,200.0	2,099.0	1,807.7	1,690.8	12.7	12.9	119.86	495.0	224.7	893.0	870.4	39.586		
2,300.0	2,190.7	1,882.6	1,753.3	13.2	13.2	120.14	531.0	244.9	959.1	935.7	40.967		
2,400.0	2,282.3	1,957.5	1,815.8	13.8	13.5	120.39	567.0	265.1	1,025.3	1,001.0	42.217		
2,500.0	2,374.0	2,032.4	1,878.3	14.4	13.7	120.60	603.0	285.3	1,091.4	1,066.3	43.349		
2,600.0	2,465.7	2,107.3	1,940.9	15.0	14.0	120.79	639.0	305.5	1,157.6	1,131.5	44.373		
2,700.0	2,557.3	2,182.2	2,003.4	15.7	14.3	120.96	675.1	325.7	1,223.8	1,196.8	45.306		
2,800.0	2,649.0	2,257.2	2,065.9	16.4	14.6	121.11	711.1	345.9	1,290.0	1,262.0	46.167		
2,900.0	2,740.7	2,332.1	2,128.4	17.1	14.9	121.25	747.1	366.1	1,356.2	1,327.3	46.909		
3,000.0	2,832.4	2,407.0	2,190.9	17.8	15.6	121.37	783.1	386.3	1,422.4	1,392.5	47.627		
3,100.0	2,924.0	2,481.9	2,253.5	18.5	16.3	121.49	819.1	406.5	1,488.6	1,457.7	48.271		
3,200.0	3,015.7	2,556.8	2,316.0	19.2	17.0	121.59	855.1	426.7	1,554.8	1,523.0	48.864		
3,300.0	3,107.4	2,631.7	2,378.5	20.0	17.7	121.69	891.1	446.9	1,621.0	1,588.2	49.412		
3,400.0	3,199.0	2,706.7	2,441.0	20.7	18.4	121.78	927.1	467.0	1,687.2	1,653.4	49.917		
3,500.0	3,290.7	2,781.6	2,503.5	21.4	19.1	121.86	963.1	487.2	1,753.4	1,718.6	50.379		
3,600.0	3,382.4	2,856.5	2,566.0	22.2	19.8	121.93	999.1	507.4	1,819.6	1,783.8	50.808		
3,700.0	3,474.0	2,931.4	2,628.6	22.9	20.5	122.00	1,035.1	527.6	1,885.8	1,849.0	51.205		
3,800.0	3,565.7	3,006.3	2,691.1	23.7	21.2	122.07	1,071.1	547.8	1,952.1	1,914.2	51.574		
3,900.0	3,657.4	3,081.3	2,753.6	24.4	21.9	122.13	1,107.1	568.0	2,018.3	1,979.4	51.916		
4,000.0	3,749.1	3,156.2	2,816.1	25.2	22.6	122.19	1,143.1	588.2	2,084.5	2,044.6	52.234		
4,100.0	3,840.7	3,231.1	2,878.6	25.9	23.3	122.24	1,179.1	608.4	2,150.7	2,109.8	52.532		
4,200.0	3,932.4	3,306.0	2,941.2	26.6	24.0	122.29	1,215.1	628.6	2,216.9	2,175.0	52.809		
4,300.0	4,024.1	3,380.9	3,003.7	27.4	24.7	122.34	1,251.1	648.8	2,283.2	2,240.1	53.068		
4,400.0	4,115.7	3,455.8	3,066.2	28.1	25.4	122.38	1,287.1	669.0	2,349.4	2,305.3	53.311		
4,500.0	4,207.4	3,530.8	3,128.7	28.9	26.2	122.42	1,323.2	689.2	2,415.6	2,370.5	53.539		
4,600.0	4,299.1	3,605.7	3,191.2	29.6	26.9	122.46	1,359.2	709.3	2,481.8	2,435.7	53.753		
4,700.0	4,390.8	3,680.6	3,253.8	30.4	27.6	122.50	1,395.2	729.5	2,548.0	2,500.8	53.953		
4,800.0	4,482.4	3,755.5	3,316.3	31.1	28.3	122.54	1,431.2	749.7	2,614.3	2,566.0	54.142		
4,900.0	4,574.1	3,830.4	3,378.8	31.9	29.0	122.57	1,467.2	769.9	2,680.5	2,631.2	54.321		
5,000.0	4,665.8	3,905.4	3,441.3	32.6	29.7	122.61	1,503.2	790.1	2,746.7	2,696.3	54.489		
5,100.0	4,757.4	3,980.3	3,503.8	33.4	30.4	122.64	1,539.2	810.3	2,813.0	2,761.5	54.647		

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 0993-20-17E - Slot B7
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 0993-20-17E	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	4,849.1	4,055.2	3,566.4	34.1	31.1	122.67	1,575.2	830.5	2,879.2	2,826.6	54.797	
5,300.0	4,940.8	4,130.1	3,628.9	34.9	31.8	122.70	1,611.2	850.7	2,945.4	2,891.8	54.939	
5,400.0	5,032.5	4,205.0	3,691.4	35.6	32.5	122.72	1,647.2	870.9	3,011.6	2,957.0	55.073	
5,500.0	5,124.1	4,279.9	3,753.9	36.4	33.3	122.75	1,683.2	891.1	3,077.9	3,022.1	55.200	
5,600.0	5,216.6	4,355.6	3,817.0	37.1	34.0	124.49	1,719.6	911.5	3,143.2	3,086.4	55.314	
5,700.0	5,310.6	4,432.7	3,881.4	37.7	34.7	126.06	1,756.6	932.2	3,206.7	3,148.8	55.403	
5,800.0	5,406.1	4,511.2	3,946.9	38.3	35.5	127.45	1,794.3	953.4	3,268.2	3,209.3	55.484	
5,900.0	5,502.7	4,590.8	4,013.4	38.7	36.2	128.66	1,832.6	974.9	3,327.6	3,267.7	55.559	
6,000.0	5,600.4	4,671.5	4,080.7	39.1	37.0	129.71	1,871.4	996.6	3,384.8	3,324.0	55.631	
6,100.0	5,698.9	4,753.0	4,148.7	39.4	37.7	130.62	1,910.6	1,018.6	3,439.9	3,378.1	55.700	
6,200.0	5,798.1	4,835.3	4,217.3	39.6	38.5	131.39	1,950.1	1,040.7	3,492.6	3,430.0	55.770	
6,300.0	5,897.7	4,918.1	4,286.4	39.8	39.3	132.04	1,989.9	1,063.1	3,543.0	3,479.6	55.844	
6,400.0	5,997.6	5,001.3	4,355.9	39.9	40.1	132.57	2,029.9	1,085.5	3,591.1	3,526.9	55.930	
6,500.0	6,097.6	5,084.7	4,425.5	39.9	40.9	67.65	2,070.0	1,108.0	3,637.2	3,572.4	56.118	
6,600.0	6,197.6	5,168.2	4,495.1	39.9	41.7	67.15	2,110.1	1,130.5	3,683.3	3,617.9	56.311	
6,700.0	6,297.6	5,251.6	4,564.8	40.0	42.5	66.66	2,150.2	1,153.0	3,729.6	3,663.6	56.502	
6,800.0	6,397.6	7,215.1	6,397.6	40.0	52.3	61.43	2,643.7	1,429.7	3,767.9	3,687.8	47.066	
6,900.0	6,497.6	7,315.1	6,497.6	40.0	52.3	61.43	2,643.7	1,429.7	3,767.9	3,687.8	47.039	
7,000.0	6,597.6	7,415.1	6,597.6	40.0	52.3	61.43	2,643.7	1,429.7	3,767.9	3,687.7	47.011	
7,100.0	6,697.6	7,515.1	6,697.6	40.1	52.3	61.43	2,643.7	1,429.7	3,767.9	3,687.7	46.984	
7,200.0	6,797.6	7,615.1	6,797.6	40.1	52.3	61.43	2,643.7	1,429.7	3,767.9	3,687.6	46.956	
7,300.0	6,897.6	7,715.1	6,897.6	40.1	52.3	61.43	2,643.7	1,429.7	3,767.9	3,687.6	46.929	
7,400.0	6,997.6	7,815.1	6,997.6	40.2	52.4	61.43	2,643.7	1,429.7	3,767.9	3,687.6	46.901	
7,500.0	7,097.6	7,915.1	7,097.6	40.2	52.4	61.43	2,643.7	1,429.7	3,767.9	3,687.5	46.873	
7,600.0	7,197.6	8,015.1	7,197.6	40.2	52.4	61.43	2,643.7	1,429.7	3,767.9	3,687.5	46.844	
7,700.0	7,297.6	8,115.1	7,297.6	40.2	52.4	61.43	2,643.7	1,429.7	3,767.9	3,687.4	46.816	
7,800.0	7,397.6	8,215.1	7,397.6	40.3	52.4	61.43	2,643.7	1,429.7	3,767.9	3,687.4	46.787	
7,900.0	7,497.6	8,315.1	7,497.6	40.3	52.4	61.43	2,643.7	1,429.7	3,767.9	3,687.3	46.759	
8,000.0	7,597.6	8,415.1	7,597.6	40.3	52.5	61.43	2,643.7	1,429.7	3,767.9	3,687.3	46.730	
8,100.0	7,697.6	8,515.1	7,697.6	40.4	52.5	61.43	2,643.7	1,429.7	3,767.9	3,687.2	46.701	
8,200.0	7,797.6	8,615.1	7,797.6	40.4	52.5	61.43	2,643.7	1,429.7	3,767.9	3,687.2	46.672	
8,219.4	7,817.0	8,634.5	7,817.0	40.4	52.5	61.43	2,643.7	1,429.7	3,767.9	3,687.2	46.668	



Anticollision Report



Company:	Laramie Energy, LLC	Local Co-ordinate Reference:	Well Laramie 29-01 0993-20-17E - Slot B7
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 0993-20-17E	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	-32.70	34.7	-22.3	41.2					
100.0	100.0	100.0	100.0	0.8	0.8	-32.70	34.7	-22.3	41.2	39.7	26.031			
200.0	200.0	200.0	200.0	1.4	1.4	-32.70	34.7	-22.3	41.2	38.4	14.576	CC		
300.0	300.0	299.2	299.2	1.9	2.5	-30.02	36.5	-21.1	42.1	38.2	10.827	ES		
400.0	400.0	398.0	397.8	2.2	4.0	68.67	41.8	-17.5	44.9	39.8	8.911			
500.0	499.8	495.6	494.8	3.6	5.1	84.01	50.5	-11.6	50.9	44.3	7.659			
600.0	599.3	591.1	589.2	4.8	6.0	100.53	62.3	-3.6	64.4	56.0	7.644	SF		
700.0	698.3	683.9	680.3	5.8	6.7	113.53	76.8	6.3	87.1	76.8	8.488			
800.0	796.7	773.4	767.5	6.0	7.4	116.30	93.8	17.8	118.0	106.3	10.133			
900.0	894.3	860.0	850.9	6.6	8.1	116.42	112.8	30.7	154.3	141.3	11.905			
1,000.0	991.0	943.4	930.5	7.3	8.7	116.39	133.6	44.8	195.5	181.5	13.892			
1,100.0	1,086.6	1,023.5	1,005.9	7.9	9.2	116.23	155.9	59.9	241.3	226.3	16.070			
1,200.0	1,181.0	1,100.0	1,077.0	8.6	9.7	115.93	179.1	75.6	291.2	275.4	18.406			
1,300.0	1,273.9	1,173.5	1,144.5	9.2	10.1	115.50	203.3	92.0	345.1	328.6	20.824			
1,400.0	1,365.6	1,243.5	1,207.9	9.5	10.6	117.11	228.0	108.8	402.5	385.3	23.402			
1,500.0	1,457.3	1,311.2	1,268.1	9.8	11.0	118.92	253.3	125.9	462.6	444.8	25.936			
1,600.0	1,549.0	1,376.4	1,325.4	10.2	11.4	120.19	279.2	143.5	525.0	506.5	28.389			
1,700.0	1,640.6	1,446.5	1,386.1	10.6	11.7	121.20	308.2	163.1	589.1	569.9	30.697			
1,800.0	1,732.3	1,522.6	1,451.9	10.9	12.0	122.07	339.8	184.6	653.5	633.6	32.779			
1,900.0	1,824.0	1,598.7	1,517.7	11.3	12.3	122.78	371.5	206.1	718.1	697.4	34.744			
2,000.0	1,915.6	1,674.8	1,583.5	11.8	12.5	123.38	403.2	227.5	782.6	761.2	36.522			
2,100.0	2,007.3	1,751.0	1,649.3	12.2	12.8	123.89	434.8	249.0	847.2	825.0	38.136			
2,200.0	2,099.0	1,827.1	1,715.1	12.7	13.0	124.33	466.5	270.5	911.9	888.9	39.600			
2,300.0	2,190.7	1,903.2	1,780.9	13.2	13.3	124.70	498.2	291.9	976.6	952.7	40.928			
2,400.0	2,282.3	1,979.3	1,846.8	13.8	13.6	125.04	529.8	313.4	1,041.3	1,016.6	42.134			
2,500.0	2,374.0	2,055.4	1,912.6	14.4	13.9	125.33	561.5	334.9	1,106.0	1,080.4	43.232			
2,600.0	2,465.7	2,131.6	1,978.4	15.0	14.2	125.59	593.2	356.3	1,170.7	1,144.3	44.232			
2,700.0	2,557.3	2,207.7	2,044.2	15.7	14.5	125.82	624.8	377.8	1,235.5	1,208.1	45.143			
2,800.0	2,649.0	2,283.8	2,110.0	16.4	14.8	126.03	656.5	399.3	1,300.2	1,271.9	45.977			
2,900.0	2,740.7	2,359.9	2,175.8	17.1	15.1	126.22	688.2	420.8	1,365.0	1,335.8	46.750			
3,000.0	2,832.4	2,436.0	2,241.6	17.8	15.4	126.40	719.8	442.2	1,429.8	1,399.6	47.422			
3,100.0	2,924.0	2,512.2	2,307.4	18.5	16.1	126.56	751.5	463.7	1,494.5	1,463.5	48.076			
3,200.0	3,015.7	2,588.3	2,373.2	19.2	16.7	126.70	783.2	485.2	1,559.3	1,527.3	48.668			
3,300.0	3,107.4	2,664.4	2,439.0	20.0	17.4	126.83	814.8	506.6	1,624.1	1,591.1	49.214			
3,400.0	3,199.0	2,740.5	2,504.8	20.7	18.0	126.96	846.5	528.1	1,688.9	1,654.9	49.719			
3,500.0	3,290.7	2,816.6	2,570.6	21.4	18.7	127.07	878.2	549.6	1,753.7	1,718.8	50.188			
3,600.0	3,382.4	2,892.8	2,636.4	22.2	19.3	127.18	909.8	571.0	1,818.5	1,782.6	50.621			
3,700.0	3,474.0	2,968.9	2,702.2	22.9	20.0	127.28	941.5	592.5	1,883.3	1,846.4	51.022			
3,800.0	3,565.7	3,045.0	2,768.0	23.7	20.6	127.37	973.2	614.0	1,948.1	1,910.2	51.396			
3,900.0	3,657.4	3,121.1	2,833.9	24.4	21.3	127.45	1,004.8	635.4	2,012.9	1,974.0	51.745			
4,000.0	3,749.1	3,197.2	2,899.7	25.2	22.0	127.54	1,036.5	656.9	2,077.8	2,037.9	52.071			
4,100.0	3,840.7	3,273.4	2,965.5	25.9	22.6	127.61	1,068.2	678.4	2,142.6	2,101.7	52.374			
4,200.0	3,932.4	3,349.5	3,031.3	26.6	23.3	127.68	1,099.8	699.9	2,207.4	2,165.5	52.658			
4,300.0	4,024.1	3,425.6	3,097.1	27.4	23.9	127.75	1,131.5	721.3	2,272.2	2,229.3	52.925			
4,400.0	4,115.7	3,501.7	3,162.9	28.1	24.6	127.81	1,163.2	742.8	2,337.0	2,293.1	53.175			
4,500.0	4,207.4	3,577.8	3,228.7	28.9	25.3	127.87	1,194.8	764.3	2,401.9	2,356.9	53.409			
4,600.0	4,299.1	3,654.0	3,294.5	29.6	25.9	127.93	1,226.5	785.7	2,466.7	2,420.7	53.630			
4,700.0	4,390.8	3,730.1	3,360.3	30.4	26.6	127.99	1,258.2	807.2	2,531.5	2,484.5	53.838			
4,800.0	4,482.4	3,806.2	3,426.1	31.1	27.2	128.04	1,289.8	828.7	2,596.3	2,548.3	54.035			
4,900.0	4,574.1	3,882.3	3,491.9	31.9	27.9	128.09	1,321.5	850.1	2,661.2	2,612.1	54.219			
5,000.0	4,665.8	3,958.4	3,557.7	32.6	28.6	128.13	1,353.2	871.6	2,726.0	2,675.9	54.394			
5,100.0	4,757.4	4,034.5	3,623.5	33.4	29.2	128.18	1,384.8	893.1	2,790.8	2,739.7	54.560			

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 0993-20-17E - Slot B7
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 0993-20-17E	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	4,849.1	4,110.7	3,689.3	34.1	29.9	128.22	1,416.5	914.5	2,855.7	2,803.5	54.716		
5,300.0	4,940.8	4,186.8	3,755.1	34.9	30.6	128.26	1,448.2	936.0	2,920.5	2,867.3	54.865		
5,400.0	5,032.5	4,262.9	3,820.9	35.6	31.2	128.30	1,479.8	957.5	2,985.3	2,931.1	55.005		
5,500.0	5,124.1	4,339.0	3,886.8	36.4	31.9	128.34	1,511.5	978.9	3,050.2	2,994.9	55.138		
5,600.0	5,216.6	4,416.0	3,953.3	37.1	32.6	129.90	1,543.5	1,000.7	3,114.0	3,057.6	55.249		
5,700.0	5,310.6	4,494.6	4,021.3	37.7	33.3	131.31	1,576.2	1,022.8	3,175.7	3,118.3	55.317		
5,800.0	5,406.1	4,574.8	4,090.6	38.3	34.0	132.53	1,609.6	1,045.4	3,235.0	3,176.6	55.365		
5,900.0	5,502.7	4,656.3	4,161.1	38.7	34.7	133.59	1,643.5	1,068.4	3,292.0	3,232.6	55.396		
6,000.0	5,600.4	4,739.1	4,232.6	39.1	35.4	134.49	1,677.9	1,091.8	3,346.6	3,286.2	55.414		
6,100.0	5,698.9	4,822.9	4,305.1	39.4	36.1	135.25	1,712.8	1,115.4	3,398.6	3,337.3	55.420		
6,200.0	5,798.1	4,907.7	4,378.3	39.6	36.9	135.88	1,748.1	1,139.3	3,448.1	3,385.8	55.418		
6,300.0	5,897.7	4,993.1	4,452.2	39.8	37.6	136.40	1,783.6	1,163.4	3,494.9	3,431.8	55.413		
6,400.0	5,997.6	5,079.2	4,526.6	39.9	38.4	136.80	1,819.4	1,187.7	3,539.1	3,475.2	55.415		
6,500.0	6,097.6	5,165.6	4,601.3	39.9	39.1	71.85	1,855.4	1,212.1	3,581.0	3,516.5	55.534		
6,600.0	6,197.6	5,252.0	4,676.1	39.9	39.9	71.39	1,891.3	1,236.5	3,622.9	3,557.8	55.662		
6,700.0	6,297.6	5,338.5	4,750.8	40.0	40.6	70.93	1,927.3	1,260.8	3,665.0	3,599.3	55.790		
6,800.0	6,397.6	7,073.0	6,397.6	40.0	48.1	66.90	2,284.5	1,503.0	3,677.3	3,599.6	47.315		
6,900.0	6,497.6	7,173.0	6,497.6	40.0	48.2	66.90	2,284.5	1,503.0	3,677.3	3,599.6	47.286		
7,000.0	6,597.6	7,273.0	6,597.6	40.0	48.2	66.90	2,284.5	1,503.0	3,677.3	3,599.5	47.257		
7,100.0	6,697.6	7,373.0	6,697.6	40.1	48.2	66.90	2,284.5	1,503.0	3,677.3	3,599.5	47.228		
7,200.0	6,797.6	7,473.0	6,797.6	40.1	48.2	66.90	2,284.5	1,503.0	3,677.3	3,599.4	47.199		
7,300.0	6,897.6	7,573.0	6,897.6	40.1	48.2	66.90	2,284.5	1,503.0	3,677.3	3,599.4	47.170		
7,400.0	6,997.6	7,673.0	6,997.6	40.2	48.3	66.90	2,284.5	1,503.0	3,677.3	3,599.3	47.141		
7,500.0	7,097.6	7,773.0	7,097.6	40.2	48.3	66.90	2,284.5	1,503.0	3,677.3	3,599.3	47.111		
7,600.0	7,197.6	7,873.0	7,197.6	40.2	48.3	66.90	2,284.5	1,503.0	3,677.3	3,599.2	47.082		
7,700.0	7,297.6	7,973.0	7,297.6	40.2	48.3	66.90	2,284.5	1,503.0	3,677.3	3,599.2	47.052		
7,800.0	7,397.6	8,073.0	7,397.6	40.3	48.3	66.90	2,284.5	1,503.0	3,677.3	3,599.1	47.022		
7,900.0	7,497.6	8,173.0	7,497.6	40.3	48.4	66.90	2,284.5	1,503.0	3,677.3	3,599.1	46.992		
8,000.0	7,597.6	8,273.0	7,597.6	40.3	48.4	66.90	2,284.5	1,503.0	3,677.3	3,599.0	46.961		
8,100.0	7,697.6	8,373.0	7,697.6	40.4	48.4	66.90	2,284.5	1,503.0	3,677.3	3,599.0	46.931		
8,200.0	7,797.6	8,473.0	7,797.6	40.4	48.4	66.90	2,284.5	1,503.0	3,677.3	3,598.9	46.900		
8,219.4	7,817.0	8,492.3	7,817.0	40.4	48.4	66.90	2,284.5	1,503.0	3,677.3	3,598.9	46.896		

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 0993-20-17E - Slot B7
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 0993-20-17E	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	-28.27	27.8	-15.0	31.6				
100.0	100.0	100.0	100.0	0.8	0.8	-28.27	27.8	-15.0	31.6	30.0	19.956		
200.0	200.0	200.0	200.0	1.4	1.4	-28.27	27.8	-15.0	31.6	28.8	11.174	CC	
300.0	300.0	299.7	299.7	1.9	1.9	-26.18	28.7	-14.1	32.0	28.4	8.943	ES	
400.0	400.0	398.9	398.8	2.2	3.4	74.39	32.5	-10.3	33.7	29.2	7.458		
500.0	499.8	496.9	496.3	3.6	4.6	94.29	39.1	-3.5	39.4	33.2	6.339	SF	
600.0	599.3	592.8	591.2	4.8	5.6	113.84	48.5	6.1	54.1	45.6	6.408		
700.0	698.3	685.8	682.7	5.8	6.4	127.06	60.1	18.0	78.9	68.4	7.482		
800.0	796.7	775.3	770.0	6.0	7.1	128.94	73.8	32.0	112.1	100.2	9.425		
900.0	894.3	861.5	853.3	6.6	7.8	128.18	89.3	47.8	151.0	137.8	11.468		
1,000.0	991.0	944.0	932.3	7.3	8.4	127.42	106.1	65.0	195.0	180.8	13.666		
1,100.0	1,086.6	1,022.9	1,006.8	7.9	8.9	126.67	124.0	83.2	243.9	228.7	16.028		
1,200.0	1,181.0	1,100.0	1,078.9	8.6	9.4	125.95	143.3	102.9	297.4	281.3	18.475		
1,300.0	1,273.9	1,168.8	1,142.3	9.2	9.9	124.99	161.9	121.9	355.0	338.2	21.140		
1,400.0	1,365.6	1,236.1	1,203.6	9.5	10.3	126.30	181.4	141.8	416.3	398.9	23.955		
1,500.0	1,457.3	1,300.0	1,261.0	9.8	10.7	127.89	201.0	161.9	480.0	462.1	26.758		
1,600.0	1,549.0	1,363.1	1,316.9	10.2	11.1	129.04	221.5	182.8	545.8	527.3	29.464		
1,700.0	1,640.6	1,422.8	1,369.0	10.6	11.4	129.84	241.9	203.6	613.6	594.5	32.215		
1,800.0	1,732.3	1,483.2	1,421.0	10.9	11.6	130.43	263.5	225.6	683.0	663.4	34.967		
1,900.0	1,824.0	1,554.5	1,482.0	11.3	11.8	130.98	289.3	251.9	752.9	732.7	37.313		
2,000.0	1,915.6	1,625.8	1,543.1	11.8	12.1	131.44	315.0	278.2	822.9	802.0	39.456		
2,100.0	2,007.3	1,697.1	1,604.2	12.2	12.3	131.82	340.8	304.5	892.9	871.3	41.410		
2,200.0	2,099.0	1,768.4	1,665.2	12.7	12.5	132.15	366.5	330.8	962.9	940.6	43.192		
2,300.0	2,190.7	1,839.7	1,726.3	13.2	12.8	132.44	392.3	357.1	1,032.9	1,009.9	44.824		
2,400.0	2,282.3	1,911.0	1,787.3	13.8	13.0	132.69	418.1	383.4	1,103.0	1,079.2	46.319		
2,500.0	2,374.0	1,982.3	1,848.4	14.4	13.3	132.90	443.8	409.7	1,173.0	1,148.4	47.686		
2,600.0	2,465.7	2,053.6	1,909.4	15.0	13.6	133.10	469.6	436.1	1,243.1	1,217.7	48.940		
2,700.0	2,557.3	2,124.9	1,970.5	15.7	13.9	133.27	495.4	462.4	1,313.2	1,286.9	50.092		
2,800.0	2,649.0	2,196.2	2,031.5	16.4	14.1	133.43	521.1	488.7	1,383.2	1,356.2	51.147		
2,900.0	2,740.7	2,267.5	2,092.6	17.1	14.4	133.57	546.9	515.0	1,453.3	1,425.4	52.139		
3,000.0	2,832.4	2,338.8	2,153.6	17.8	14.9	133.70	572.7	541.3	1,523.4	1,494.6	52.980		
3,100.0	2,924.0	2,410.1	2,214.7	18.5	15.6	133.81	598.4	567.6	1,593.5	1,563.9	53.842		
3,200.0	3,015.7	2,481.4	2,275.7	19.2	16.2	133.92	624.2	593.9	1,663.6	1,633.1	54.606		
3,300.0	3,107.4	2,552.7	2,336.8	20.0	16.9	134.02	650.0	620.2	1,733.6	1,702.3	55.314		
3,400.0	3,199.0	2,624.0	2,397.8	20.7	17.5	134.11	675.7	646.5	1,803.7	1,771.5	55.973		
3,500.0	3,290.7	2,695.3	2,458.9	21.4	18.2	134.19	701.5	672.8	1,873.8	1,840.7	56.585		
3,600.0	3,382.4	2,766.6	2,519.9	22.2	18.8	134.27	727.3	699.1	1,943.9	1,909.9	57.151		
3,700.0	3,474.0	2,837.9	2,581.0	22.9	19.5	134.34	753.0	725.4	2,014.0	1,979.1	57.680		
3,800.0	3,565.7	2,909.2	2,642.0	23.7	20.2	134.41	778.8	751.7	2,084.1	2,048.3	58.175		
3,900.0	3,657.4	2,980.5	2,703.1	24.4	20.8	134.48	804.6	778.0	2,154.2	2,117.5	58.635		
4,000.0	3,749.1	3,051.8	2,764.1	25.2	21.5	134.53	830.3	804.3	2,224.3	2,186.7	59.065		
4,100.0	3,840.7	3,123.0	2,825.2	25.9	22.2	134.59	856.1	830.6	2,294.4	2,255.8	59.469		
4,200.0	3,932.4	3,194.3	2,886.2	26.6	22.8	134.64	881.9	856.9	2,364.5	2,325.0	59.848		
4,300.0	4,024.1	3,265.6	2,947.3	27.4	23.5	134.69	907.6	883.2	2,434.6	2,394.2	60.203		
4,400.0	4,115.7	3,336.9	3,008.4	28.1	24.1	134.74	933.4	909.5	2,504.7	2,463.4	60.537		
4,500.0	4,207.4	3,408.2	3,069.4	28.9	24.8	134.78	959.1	935.9	2,574.8	2,532.5	60.851		
4,600.0	4,299.1	3,479.5	3,130.5	29.6	25.5	134.82	984.9	962.2	2,644.9	2,601.7	61.147		
4,700.0	4,390.8	3,550.8	3,191.5	30.4	26.1	134.86	1,010.7	988.5	2,715.1	2,670.9	61.426		
4,800.0	4,482.4	3,622.1	3,252.6	31.1	26.8	134.90	1,036.4	1,014.8	2,785.2	2,740.0	61.690		
4,900.0	4,574.1	3,693.4	3,313.6	31.9	27.5	134.94	1,062.2	1,041.1	2,855.3	2,809.2	61.939		
5,000.0	4,665.8	3,764.7	3,374.7	32.6	28.1	134.97	1,088.0	1,067.4	2,925.4	2,878.3	62.174		
5,100.0	4,757.4	3,836.0	3,435.7	33.4	28.8	135.00	1,113.7	1,093.7	2,995.5	2,947.5	62.397		

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 0993-20-17E - Slot B7
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 0993-20-17E	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	4,849.1	3,907.3	3,496.8	34.1	29.5	135.03	1,139.5	1,120.0	3,065.6	3,016.6	62.609	
5,300.0	4,940.8	3,978.6	3,557.8	34.9	30.1	135.06	1,165.3	1,146.3	3,135.7	3,085.8	62.809	
5,400.0	5,032.5	4,049.9	3,618.9	35.6	30.8	135.09	1,191.0	1,172.6	3,205.8	3,154.9	62.999	
5,500.0	5,124.1	4,121.2	3,679.9	36.4	31.4	135.12	1,216.8	1,198.9	3,275.9	3,224.1	63.180	
5,600.0	5,216.6	4,193.5	3,741.9	37.1	32.1	136.73	1,242.9	1,225.6	3,345.0	3,292.2	63.323	
5,700.0	5,310.6	4,267.9	3,805.6	37.7	32.8	138.17	1,269.8	1,253.0	3,411.7	3,357.9	63.394	
5,800.0	5,406.1	4,344.3	3,871.0	38.3	33.5	139.41	1,297.4	1,281.2	3,476.0	3,421.2	63.429	
5,900.0	5,502.7	4,422.4	3,937.9	38.7	34.3	140.48	1,325.7	1,310.0	3,537.7	3,481.9	63.433	
6,000.0	5,600.4	4,502.2	4,006.2	39.1	35.0	141.40	1,354.5	1,339.5	3,596.7	3,540.0	63.409	
6,100.0	5,698.9	4,583.5	4,075.8	39.4	35.8	142.17	1,383.9	1,369.5	3,653.0	3,595.4	63.363	
6,200.0	5,798.1	4,666.1	4,146.5	39.6	36.5	142.82	1,413.7	1,399.9	3,706.6	3,648.0	63.298	
6,300.0	5,897.7	4,749.9	4,218.3	39.8	37.3	143.35	1,444.0	1,430.9	3,757.2	3,697.8	63.224	
6,400.0	5,997.6	4,834.7	4,290.9	39.9	38.1	143.78	1,474.6	1,462.1	3,804.9	3,744.7	63.153	
6,500.0	6,097.6	4,920.2	4,364.2	39.9	38.9	78.87	1,505.6	1,493.7	3,850.2	3,789.3	63.253	
6,600.0	6,197.6	5,005.9	4,437.5	39.9	39.7	78.47	1,536.5	1,525.3	3,895.3	3,833.8	63.367	
6,700.0	6,297.6	5,091.5	4,510.8	40.0	40.5	78.08	1,567.4	1,556.9	3,940.6	3,878.5	63.480	
6,800.0	6,397.6	5,177.1	4,584.1	40.0	41.3	77.69	1,598.4	1,588.5	3,986.0	3,923.3	63.592	
6,900.0	6,497.6	5,262.7	4,657.4	40.0	51.0	73.61	1,975.4	1,973.4	4,016.1	3,939.2	52.182	
7,000.0	6,597.6	5,348.9	4,730.7	40.0	51.0	73.61	1,975.4	1,973.4	4,016.1	3,939.1	52.150	
7,100.0	6,697.6	5,434.5	4,804.0	40.1	51.0	73.61	1,975.4	1,973.4	4,016.1	3,939.1	52.118	
7,200.0	6,797.6	5,520.1	4,877.3	40.1	51.0	73.61	1,975.4	1,973.4	4,016.1	3,939.0	52.086	
7,300.0	6,897.6	5,605.7	4,950.6	40.1	51.1	73.61	1,975.4	1,973.4	4,016.1	3,939.0	52.053	
7,400.0	6,997.6	5,691.3	5,023.9	40.2	51.1	73.61	1,975.4	1,973.4	4,016.1	3,938.9	52.021	
7,500.0	7,097.6	5,776.9	5,097.2	40.2	51.1	73.61	1,975.4	1,973.4	4,016.1	3,938.9	51.988	
7,600.0	7,197.6	5,862.5	5,170.5	40.2	51.1	73.61	1,975.4	1,973.4	4,016.1	3,938.8	51.955	
7,700.0	7,297.6	5,948.1	5,243.8	40.2	51.1	73.61	1,975.4	1,973.4	4,016.1	3,938.8	51.922	
7,800.0	7,397.6	6,033.7	5,317.1	40.3	51.2	73.61	1,975.4	1,973.4	4,016.1	3,938.7	51.889	
7,900.0	7,497.6	6,119.3	5,390.4	40.3	51.2	73.61	1,975.4	1,973.4	4,016.1	3,938.7	51.856	
8,000.0	7,597.6	6,204.9	5,463.7	40.3	51.2	73.61	1,975.4	1,973.4	4,016.1	3,938.6	51.822	
8,100.0	7,697.6	6,290.5	5,537.0	40.4	51.2	73.61	1,975.4	1,973.4	4,016.1	3,938.6	51.789	
8,200.0	7,797.6	6,376.1	5,610.3	40.4	51.2	73.61	1,975.4	1,973.4	4,016.1	3,938.5	51.755	
8,219.4	7,817.0	6,395.9	5,629.7	40.4	51.2	73.61	1,975.4	1,973.4	4,016.1	3,938.5	51.750	

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



Anticollision Report



Company:	Laramie Energy, LLC	Local Co-ordinate Reference:	Well Laramie 29-01 0993-20-17E - Slot B7
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 0993-20-17E	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	-20.15	21.0	-7.7	22.4					
100.0	100.0	100.0	100.0	0.8	0.8	-20.15	21.0	-7.7	22.4	20.8	14.109			
200.0	200.0	200.0	200.0	1.4	1.4	-20.15	21.0	-7.7	22.4	19.5	7.900	CC		
300.0	300.0	299.7	299.7	1.9	2.1	-16.46	22.0	-6.5	22.9	19.2	6.147	ES		
400.0	400.0	398.9	398.7	2.2	3.6	88.17	25.7	-2.0	25.7	20.8	5.280			
500.0	499.8	496.8	496.1	3.6	4.8	110.61	32.0	5.7	34.5	27.6	4.997	SF		
600.0	599.3	592.5	590.8	4.8	5.7	127.73	40.7	16.3	52.9	43.7	5.737			
700.0	698.3	685.2	681.9	5.8	6.5	137.66	51.5	29.4	80.8	69.6	7.240			
800.0	796.7	774.2	768.7	6.0	7.2	137.21	64.1	44.7	116.3	104.0	9.453			
900.0	894.3	859.7	851.2	6.6	7.9	134.98	78.2	61.9	157.3	143.8	11.678			
1,000.0	991.0	941.5	929.3	7.3	8.5	133.27	93.5	80.5	203.3	188.8	13.997			
1,100.0	1,086.6	1,019.2	1,002.8	7.9	9.0	131.84	109.7	100.1	254.2	238.8	16.454			
1,200.0	1,181.0	1,092.9	1,071.6	8.6	9.5	130.55	126.5	120.6	309.6	293.4	19.040			
1,300.0	1,273.9	1,162.4	1,135.6	9.2	9.9	129.30	143.6	141.4	369.3	352.3	21.726			
1,400.0	1,365.6	1,228.1	1,195.5	9.5	10.3	130.35	161.0	162.4	432.5	415.0	24.641			
1,500.0	1,457.3	1,291.2	1,252.1	9.8	10.7	131.79	178.6	183.9	498.1	480.0	27.514			
1,600.0	1,549.0	1,355.0	1,308.6	10.2	11.0	132.85	197.5	206.8	565.7	547.1	30.451			
1,700.0	1,640.6	1,423.3	1,368.6	10.6	11.2	133.71	218.2	231.9	634.3	615.2	33.227			
1,800.0	1,732.3	1,495.7	1,432.2	10.9	11.4	134.45	240.1	258.6	703.0	683.3	35.673			
1,900.0	1,824.0	1,568.1	1,495.9	11.3	11.6	135.07	262.1	285.3	771.8	751.4	37.903			
2,000.0	1,915.6	1,640.5	1,559.5	11.8	11.9	135.58	284.0	312.0	840.6	819.5	39.950			
2,100.0	2,007.3	1,712.9	1,623.1	12.2	12.1	136.01	306.0	338.6	909.4	887.6	41.828			
2,200.0	2,099.0	1,785.3	1,686.7	12.7	12.4	136.39	327.9	365.3	978.2	955.8	43.547			
2,300.0	2,190.7	1,857.7	1,750.3	13.2	12.7	136.71	349.9	392.0	1,047.1	1,023.9	45.122			
2,400.0	2,282.3	1,930.1	1,813.9	13.8	12.9	137.00	371.8	418.6	1,116.0	1,092.0	46.568			
2,500.0	2,374.0	2,002.5	1,877.6	14.4	13.2	137.25	393.8	445.3	1,184.9	1,160.1	47.896			
2,600.0	2,465.7	2,074.8	1,941.2	15.0	13.5	137.47	415.7	472.0	1,253.8	1,228.2	49.115			
2,700.0	2,557.3	2,147.2	2,004.8	15.7	13.8	137.67	437.6	498.7	1,322.7	1,296.4	50.238			
2,800.0	2,649.0	2,219.6	2,068.4	16.4	14.1	137.85	459.6	525.3	1,391.6	1,364.5	51.273			
2,900.0	2,740.7	2,292.0	2,132.0	17.1	14.4	138.02	481.5	552.0	1,460.5	1,432.6	52.225			
3,000.0	2,832.4	2,364.4	2,195.6	17.8	14.8	138.17	503.5	578.7	1,529.5	1,500.7	53.105			
3,100.0	2,924.0	2,436.8	2,259.3	18.5	15.3	138.30	525.4	605.4	1,598.4	1,568.8	53.914			
3,200.0	3,015.7	2,509.2	2,322.9	19.2	15.9	138.43	547.4	632.0	1,667.4	1,636.9	54.675			
3,300.0	3,107.4	2,581.6	2,386.5	20.0	16.6	138.54	569.3	658.7	1,736.3	1,705.0	55.375			
3,400.0	3,199.0	2,653.9	2,450.1	20.7	17.2	138.65	591.3	685.4	1,805.3	1,773.0	56.026			
3,500.0	3,290.7	2,726.3	2,513.7	21.4	17.8	138.75	613.2	712.0	1,874.2	1,841.1	56.633			
3,600.0	3,382.4	2,798.7	2,577.3	22.2	18.4	138.84	635.2	738.7	1,943.2	1,909.2	57.200			
3,700.0	3,474.0	2,871.1	2,640.9	22.9	19.0	138.93	657.1	765.4	2,012.1	1,977.3	57.726			
3,800.0	3,565.7	2,943.5	2,704.6	23.7	19.7	139.01	679.1	792.1	2,081.1	2,045.3	58.219			
3,900.0	3,657.4	3,015.9	2,768.2	24.4	20.3	139.08	701.0	818.7	2,150.1	2,113.4	58.681			
4,000.0	3,749.1	3,088.3	2,831.8	25.2	20.9	139.15	723.0	845.4	2,219.0	2,181.5	59.113			
4,100.0	3,840.7	3,160.7	2,895.4	25.9	21.5	139.22	744.9	872.1	2,288.0	2,249.5	59.518			
4,200.0	3,932.4	3,233.0	2,959.0	26.6	22.2	139.28	766.9	898.7	2,357.0	2,317.6	59.899			
4,300.0	4,024.1	3,305.4	3,022.6	27.4	22.8	139.34	788.8	925.4	2,425.9	2,385.7	60.258			
4,400.0	4,115.7	3,377.8	3,086.3	28.1	23.4	139.39	810.7	952.1	2,494.9	2,453.7	60.595			
4,500.0	4,207.4	3,450.2	3,149.9	28.9	24.0	139.44	832.7	978.8	2,563.9	2,521.8	60.913			
4,600.0	4,299.1	3,522.6	3,213.5	29.6	24.7	139.49	854.6	1,005.4	2,632.8	2,589.8	61.213			
4,700.0	4,390.8	3,595.0	3,277.1	30.4	25.3	139.54	876.6	1,032.1	2,701.8	2,657.9	61.497			
4,800.0	4,482.4	3,667.4	3,340.7	31.1	25.9	139.58	898.5	1,058.8	2,770.8	2,725.9	61.765			
4,900.0	4,574.1	3,739.8	3,404.3	31.9	26.5	139.63	920.5	1,085.5	2,839.8	2,794.0	62.018			
5,000.0	4,665.8	3,812.2	3,467.9	32.6	27.2	139.67	942.4	1,112.1	2,908.7	2,862.0	62.259			
5,100.0	4,757.4	3,884.5	3,531.6	33.4	27.8	139.70	964.4	1,138.8	2,977.7	2,930.1	62.486			

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 0993-20-17E - Slot B7
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 0993-20-17E	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	4,849.1	3,956.9	3,595.2	34.1	28.4	139.74	986.3	1,165.5	3,046.7	2,998.1	62.702	
5,300.0	4,940.8	4,029.3	3,658.8	34.9	29.0	139.78	1,008.3	1,192.1	3,115.7	3,066.2	62.908	
5,400.0	5,032.5	4,101.7	3,722.4	35.6	29.7	139.81	1,030.2	1,218.8	3,184.7	3,134.2	63.103	
5,500.0	5,124.1	4,174.1	3,786.0	36.4	30.3	139.84	1,052.2	1,245.5	3,253.6	3,202.2	63.288	
5,600.0	5,216.6	4,247.6	3,850.6	37.1	30.9	141.27	1,074.4	1,272.6	3,321.5	3,269.1	63.428	
5,700.0	5,310.6	4,323.3	3,917.1	37.7	31.6	142.54	1,097.4	1,300.5	3,386.7	3,333.4	63.478	
5,800.0	5,406.1	4,401.0	3,985.5	38.3	32.3	143.63	1,121.0	1,329.1	3,449.3	3,395.0	63.483	
5,900.0	5,502.7	4,480.7	4,055.5	38.7	33.0	144.56	1,145.1	1,358.5	3,509.2	3,453.9	63.447	
6,000.0	5,600.4	4,562.2	4,127.1	39.1	33.7	145.34	1,169.8	1,388.5	3,566.2	3,509.9	63.376	
6,100.0	5,698.9	4,645.3	4,200.1	39.4	34.4	146.00	1,195.0	1,419.1	3,620.2	3,563.0	63.276	
6,200.0	5,798.1	4,729.8	4,274.4	39.6	35.1	146.54	1,220.7	1,450.2	3,671.3	3,613.1	63.151	
6,300.0	5,897.7	4,815.6	4,349.8	39.8	35.9	146.98	1,246.7	1,481.9	3,719.2	3,660.2	63.011	
6,400.0	5,997.6	4,902.6	4,426.2	39.9	36.6	147.31	1,273.0	1,513.9	3,764.0	3,704.2	62.872	
6,500.0	6,097.6	4,990.4	4,503.4	39.9	37.4	82.39	1,299.7	1,546.3	3,806.2	3,745.7	62.923	
6,600.0	6,197.6	5,078.3	4,580.6	39.9	38.1	82.03	1,326.3	1,578.6	3,848.1	3,787.0	62.991	
6,700.0	6,297.6	5,166.1	4,657.8	40.0	38.9	81.67	1,352.9	1,611.0	3,890.2	3,828.5	63.059	
6,800.0	6,397.6	5,254.0	4,735.1	40.0	39.7	81.32	1,379.6	1,643.4	3,932.4	3,870.1	63.127	
6,900.0	6,497.6	7,102.5	6,497.6	40.0	47.5	78.10	1,654.8	1,977.9	3,942.1	3,867.1	52.553	
7,000.0	6,597.6	7,202.5	6,597.6	40.0	47.5	78.10	1,654.8	1,977.9	3,942.1	3,867.1	52.519	
7,100.0	6,697.6	7,302.5	6,697.6	40.1	47.5	78.10	1,654.8	1,977.9	3,942.1	3,867.0	52.486	
7,200.0	6,797.6	7,402.5	6,797.6	40.1	47.6	78.10	1,654.8	1,977.9	3,942.1	3,867.0	52.452	
7,300.0	6,897.6	7,502.5	6,897.6	40.1	47.6	78.10	1,654.8	1,977.9	3,942.1	3,866.9	52.418	
7,400.0	6,997.6	7,602.5	6,997.6	40.2	47.6	78.10	1,654.8	1,977.9	3,942.1	3,866.9	52.384	
7,500.0	7,097.6	7,702.5	7,097.6	40.2	47.6	78.10	1,654.8	1,977.9	3,942.1	3,866.8	52.349	
7,600.0	7,197.6	7,802.5	7,197.6	40.2	47.7	78.10	1,654.8	1,977.9	3,942.1	3,866.8	52.315	
7,700.0	7,297.6	7,902.5	7,297.6	40.2	47.7	78.10	1,654.8	1,977.9	3,942.1	3,866.7	52.280	
7,800.0	7,397.6	8,002.5	7,397.6	40.3	47.7	78.10	1,654.8	1,977.9	3,942.1	3,866.7	52.245	
7,900.0	7,497.6	8,102.5	7,497.6	40.3	47.7	78.10	1,654.8	1,977.9	3,942.1	3,866.6	52.210	
8,000.0	7,597.6	8,202.5	7,597.6	40.3	47.7	78.10	1,654.8	1,977.9	3,942.1	3,866.6	52.175	
8,100.0	7,697.6	8,302.5	7,697.6	40.4	47.8	78.10	1,654.8	1,977.9	3,942.1	3,866.5	52.139	
8,200.0	7,797.6	8,402.5	7,797.6	40.4	47.8	78.10	1,654.8	1,977.9	3,942.1	3,866.5	52.104	
8,219.4	7,817.0	8,421.9	7,817.0	40.4	47.8	78.10	1,654.8	1,977.9	3,942.1	3,866.5	52.099	

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 0993-20-17E - Slot B7
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 0993-20-17E	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)	Offset 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	-1.72	14.1	-0.4	14.1					
100.0	100.0	100.0	100.0	0.8	0.8	-1.72	14.1	-0.4	14.1	12.6	8.926			
200.0	200.0	200.0	200.0	1.4	1.4	-1.72	14.1	-0.4	14.1	11.3	4.998			
210.0	210.0	210.0	210.0	1.5	1.4	-1.72	14.1	-0.4	14.1	11.2	4.880	CC		
300.0	300.0	299.8	299.8	1.9	1.7	0.10	14.4	0.0	14.4	10.9	4.109	ES		
400.0	400.0	399.2	399.1	2.2	3.0	105.92	16.8	3.6	17.5	12.8	3.739	SF		
500.0	499.8	497.4	497.0	3.6	4.3	128.35	21.6	10.7	27.8	20.8	3.936			
600.0	599.3	593.5	592.3	4.8	5.3	141.89	28.5	20.9	47.5	38.1	5.055			
700.0	698.3	686.6	684.0	5.8	6.2	148.77	37.2	34.0	75.9	64.7	6.754			
800.0	796.7	776.1	771.5	6.0	6.9	146.35	47.6	49.5	111.7	99.4	9.090			
900.0	894.3	862.0	854.7	6.6	7.6	142.94	59.4	67.0	153.0	139.6	11.404			
1,000.0	991.0	943.9	933.4	7.3	8.2	140.46	72.2	86.1	199.5	185.1	13.784			
1,100.0	1,086.6	1,021.7	1,007.2	7.9	8.7	138.50	85.8	106.5	251.1	235.7	16.291			
1,200.0	1,181.0	1,100.0	1,080.6	8.6	9.3	136.97	101.0	129.0	307.4	291.0	18.799			
1,300.0	1,273.9	1,164.4	1,140.3	9.2	9.7	135.28	114.4	149.0	368.0	351.0	21.662			
1,400.0	1,365.6	1,229.6	1,200.0	9.5	10.1	136.08	129.0	170.8	432.3	414.8	24.659			
1,500.0	1,457.3	1,292.0	1,256.5	9.8	10.5	137.31	143.9	192.9	498.8	480.8	27.606			
1,600.0	1,549.0	1,363.4	1,320.5	10.2	10.8	138.35	161.5	219.1	566.7	548.0	30.323			
1,700.0	1,640.6	1,436.5	1,386.0	10.6	11.1	139.19	179.5	246.0	634.6	615.3	32.873			
1,800.0	1,732.3	1,509.6	1,451.6	10.9	11.3	139.87	197.5	272.9	702.6	682.7	35.292			
1,900.0	1,824.0	1,582.7	1,517.1	11.3	11.5	140.42	215.5	299.7	770.6	750.1	37.517			
2,000.0	1,915.6	1,655.8	1,582.7	11.8	11.8	140.89	233.6	326.6	838.7	817.5	39.565			
2,100.0	2,007.3	1,728.9	1,648.2	12.2	12.0	141.29	251.6	353.5	906.8	884.9	41.450			
2,200.0	2,099.0	1,802.0	1,713.8	12.7	12.3	141.64	269.6	380.3	974.9	952.3	43.186			
2,300.0	2,190.7	1,875.1	1,779.3	13.2	12.6	141.93	287.7	407.2	1,043.0	1,019.7	44.779			
2,400.0	2,282.3	1,948.2	1,844.9	13.8	12.8	142.20	305.7	434.1	1,111.2	1,087.1	46.247			
2,500.0	2,374.0	2,021.3	1,910.4	14.4	13.1	142.43	323.7	461.0	1,179.3	1,154.6	47.600			
2,600.0	2,465.7	2,094.4	1,976.0	15.0	13.4	142.63	341.7	487.8	1,247.5	1,222.0	48.849			
2,700.0	2,557.3	2,167.5	2,041.5	15.7	13.7	142.82	359.8	514.7	1,315.7	1,289.3	49.999			
2,800.0	2,649.0	2,240.6	2,107.0	16.4	14.0	142.99	377.8	541.6	1,383.8	1,356.7	51.063			
2,900.0	2,740.7	2,313.7	2,172.6	17.1	14.3	143.14	395.8	568.4	1,452.0	1,424.1	52.048			
3,000.0	2,832.4	2,386.8	2,238.1	17.8	14.6	143.28	413.9	595.3	1,520.2	1,491.5	52.960			
3,100.0	2,924.0	2,459.9	2,303.7	18.5	14.9	143.40	431.9	622.2	1,588.4	1,558.9	53.807			
3,200.0	3,015.7	2,533.0	2,369.2	19.2	15.3	143.52	449.9	649.0	1,656.6	1,626.3	54.593			
3,300.0	3,107.4	2,606.1	2,434.8	20.0	15.9	143.62	467.9	675.9	1,724.8	1,693.6	55.324			
3,400.0	3,199.0	2,679.1	2,500.3	20.7	16.4	143.72	486.0	702.8	1,793.0	1,761.0	56.004			
3,500.0	3,290.7	2,752.2	2,565.9	21.4	17.0	143.81	504.0	729.6	1,861.2	1,828.4	56.639			
3,600.0	3,382.4	2,825.3	2,631.4	22.2	17.6	143.90	522.0	756.5	1,929.4	1,895.7	57.233			
3,700.0	3,474.0	2,898.4	2,697.0	22.9	18.2	143.98	540.1	783.4	1,997.6	1,963.1	57.789			
3,800.0	3,565.7	2,971.5	2,762.5	23.7	18.8	144.05	558.1	810.2	2,065.8	2,030.4	58.308			
3,900.0	3,657.4	3,044.6	2,828.1	24.4	19.4	144.12	576.1	837.1	2,134.1	2,097.8	58.795			
4,000.0	3,749.1	3,117.7	2,893.6	25.2	20.0	144.18	594.1	864.0	2,202.3	2,165.1	59.253			
4,100.0	3,840.7	3,190.8	2,959.2	25.9	20.5	144.24	612.2	890.9	2,270.5	2,232.4	59.684			
4,200.0	3,932.4	3,263.9	3,024.7	26.6	21.1	144.30	630.2	917.7	2,338.7	2,299.8	60.088			
4,300.0	4,024.1	3,337.0	3,090.3	27.4	21.7	144.36	648.2	944.6	2,406.9	2,367.1	60.469			
4,400.0	4,115.7	3,410.1	3,155.8	28.1	22.3	144.41	666.3	971.5	2,475.2	2,434.5	60.829			
4,500.0	4,207.4	3,483.2	3,221.4	28.9	22.9	144.46	684.3	998.3	2,543.4	2,501.8	61.168			
4,600.0	4,299.1	3,556.3	3,286.9	29.6	23.5	144.50	702.3	1,025.2	2,611.6	2,569.1	61.488			
4,700.0	4,390.8	3,629.4	3,352.4	30.4	24.1	144.54	720.3	1,052.1	2,679.8	2,636.4	61.791			
4,800.0	4,482.4	3,702.5	3,418.0	31.1	24.7	144.59	738.4	1,078.9	2,748.0	2,703.8	62.079			
4,900.0	4,574.1	3,775.6	3,483.5	31.9	25.2	144.63	756.4	1,105.8	2,816.3	2,771.1	62.351			
5,000.0	4,665.8	3,848.7	3,549.1	32.6	25.8	144.66	774.4	1,132.7	2,884.5	2,838.4	62.608			

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 0993-20-17E - Slot B7
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 0993-20-17E	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	
5,100.0	4,757.4	3,921.8	3,614.6	33.4	26.4	144.70	792.5	1,159.5	2,952.7	2,905.7	62.853		
5,200.0	4,849.1	3,994.9	3,680.2	34.1	27.0	144.73	810.5	1,186.4	3,020.9	2,973.1	63.086		
5,300.0	4,940.8	4,068.0	3,745.7	34.9	27.6	144.77	828.5	1,213.3	3,089.2	3,040.4	63.307		
5,400.0	5,032.5	4,141.1	3,811.3	35.6	28.2	144.80	846.5	1,240.1	3,157.4	3,107.7	63.518		
5,500.0	5,124.1	4,214.2	3,876.8	36.4	28.8	144.83	864.6	1,267.0	3,225.6	3,175.0	63.718		
5,600.0	5,216.6	4,288.5	3,943.4	37.1	29.4	146.07	882.9	1,294.3	3,292.6	3,241.0	63.863		
5,700.0	5,310.6	4,365.1	4,012.1	37.7	30.0	147.17	901.8	1,322.5	3,356.8	3,304.3	63.900		
5,800.0	5,406.1	4,443.9	4,082.7	38.3	30.6	148.11	921.2	1,351.4	3,418.2	3,364.7	63.881		
5,900.0	5,502.7	4,524.7	4,155.2	38.7	31.3	148.90	941.1	1,381.1	3,476.7	3,422.2	63.812		
6,000.0	5,600.4	4,607.4	4,229.4	39.1	32.0	149.57	961.5	1,411.5	3,532.0	3,476.6	63.701		
6,100.0	5,698.9	4,691.8	4,305.1	39.4	32.6	150.12	982.4	1,442.6	3,584.3	3,527.9	63.551		
6,200.0	5,798.1	4,777.8	4,382.2	39.6	33.3	150.56	1,003.6	1,474.2	3,633.3	3,576.0	63.372		
6,300.0	5,897.7	4,865.2	4,460.6	39.8	34.0	150.91	1,025.1	1,506.3	3,679.1	3,620.8	63.172		
6,400.0	5,997.6	4,953.9	4,540.1	39.9	34.8	151.17	1,047.0	1,538.9	3,721.5	3,662.4	62.969		
6,500.0	6,097.6	5,043.5	4,620.4	39.9	35.5	86.23	1,069.1	1,571.8	3,761.0	3,701.3	62.981		
6,600.0	6,197.6	5,133.1	4,700.8	39.9	36.2	85.91	1,091.2	1,604.8	3,800.4	3,740.1	63.014		
6,700.0	6,297.6	5,222.8	4,781.2	40.0	36.9	85.59	1,113.3	1,637.7	3,839.8	3,778.9	63.046		
6,800.0	6,397.6	5,312.7	4,862.6	40.0	37.6	85.27	1,135.4	1,671.1	3,879.2	3,817.7	63.078		
6,900.0	6,497.6	5,402.7	4,944.0	40.0	38.3	84.95	1,157.5	1,704.5	3,918.6	3,856.5	63.110		
7,000.0	6,597.6	5,492.7	5,025.4	40.0	39.0	84.63	1,179.6	1,737.9	3,958.0	3,895.3	63.142		
7,100.0	6,697.6	5,582.7	5,106.8	40.1	39.7	84.31	1,201.7	1,771.3	3,997.4	3,934.1	63.174		
7,200.0	6,797.6	5,672.7	5,188.2	40.1	40.4	83.99	1,223.8	1,804.7	4,036.8	3,972.9	63.206		
7,300.0	6,897.6	5,762.7	5,269.6	40.1	41.1	83.67	1,245.9	1,838.1	4,076.2	3,999.7	63.238		
7,400.0	6,997.6	5,852.7	5,351.0	40.2	41.8	83.35	1,268.0	1,871.5	4,115.6	4,026.5	63.270		
7,500.0	7,097.6	5,942.7	5,432.4	40.2	42.5	83.03	1,290.1	1,904.9	4,155.0	4,053.3	63.302		
7,600.0	7,197.6	6,032.7	5,513.8	40.2	43.2	82.71	1,312.2	1,938.3	4,194.4	4,080.1	63.334		
7,700.0	7,297.6	6,122.7	5,595.2	40.2	43.9	82.39	1,334.3	1,971.7	4,233.8	4,106.9	63.366		
7,800.0	7,397.6	6,212.7	5,676.6	40.3	44.6	82.07	1,356.4	2,005.1	4,273.2	4,133.7	63.398		
7,900.0	7,497.6	6,302.7	5,758.0	40.3	45.3	81.75	1,378.5	2,038.5	4,312.6	4,160.5	63.430		
8,000.0	7,597.6	6,392.7	5,839.4	40.3	46.0	81.43	1,400.6	2,071.9	4,352.0	4,187.3	63.462		
8,100.0	7,697.6	6,482.7	5,920.8	40.4	46.7	81.11	1,422.7	2,105.3	4,391.4	4,214.1	63.494		
8,200.0	7,797.6	6,572.7	6,002.2	40.4	47.4	80.79	1,444.8	2,138.7	4,430.8	4,240.9	63.526		
8,219.4	7,817.0	6,592.1	6,021.6	40.4	47.5	80.77	1,447.2	2,141.1	4,433.2	4,243.3	63.528		

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 0993-20-17E - Slot B7
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 0993-20-17E	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	43.28	7.3	6.9	10.0				
100.0	100.0	100.0	100.0	0.8	0.8	43.28	7.3	6.9	10.0	8.4	6.316		
200.0	200.0	200.0	200.0	1.4	1.4	43.28	7.3	6.9	10.0	7.2	3.537		
300.0	300.0	300.0	300.0	1.9	1.9	43.28	7.3	6.9	10.0	6.3	2.679	CC, ES	
400.0	400.0	399.5	399.4	2.2	2.7	140.36	8.3	8.8	13.0	8.1	2.678	SF	
500.0	499.8	498.0	497.8	3.6	4.1	151.86	11.2	14.5	24.0	16.6	3.228		
600.0	599.3	594.6	593.8	4.8	5.2	157.90	15.9	23.7	43.6	33.9	4.524		
700.0	698.3	688.3	686.4	5.8	6.0	160.77	22.3	36.1	71.3	59.9	6.261		
800.0	796.7	778.5	775.0	6.0	6.8	156.15	30.0	51.1	106.3	93.9	8.606		
900.0	894.3	865.0	859.3	6.6	7.5	151.51	38.9	68.5	147.1	133.7	10.939		
1,000.0	991.0	947.4	938.8	7.3	8.1	148.28	48.8	87.7	193.5	179.0	13.333		
1,100.0	1,086.6	1,025.6	1,013.5	7.9	8.6	145.83	59.3	108.2	245.1	229.7	15.855		
1,200.0	1,181.0	1,100.0	1,083.9	8.6	9.1	143.83	70.4	129.8	301.7	285.4	18.487		
1,300.0	1,273.9	1,168.3	1,147.7	9.2	9.5	142.01	81.5	151.4	363.0	345.9	21.278		
1,400.0	1,365.6	1,233.2	1,207.7	9.5	9.9	142.55	92.9	173.6	428.0	410.5	24.405		
1,500.0	1,457.3	1,298.0	1,266.7	9.8	10.2	143.62	104.9	197.1	495.2	477.2	27.539		
1,600.0	1,549.0	1,371.2	1,333.4	10.2	10.4	144.52	118.8	224.1	563.0	544.5	30.411		
1,700.0	1,640.6	1,444.4	1,400.0	10.6	10.6	145.23	132.7	251.2	630.9	611.8	33.077		
1,800.0	1,732.3	1,517.7	1,466.6	10.9	10.9	145.80	146.6	278.3	698.8	679.1	35.545		
1,900.0	1,824.0	1,590.9	1,533.2	11.3	11.1	146.27	160.5	305.4	766.7	746.5	37.823		
2,000.0	1,915.6	1,664.1	1,599.8	11.8	11.4	146.66	174.4	332.4	834.7	813.8	39.919		
2,100.0	2,007.3	1,737.4	1,666.4	12.2	11.6	147.00	188.3	359.5	902.7	881.1	41.854		
2,200.0	2,099.0	1,810.6	1,733.0	12.7	11.9	147.28	202.2	386.6	970.7	948.4	43.639		
2,300.0	2,190.7	1,883.9	1,799.7	13.2	12.2	147.53	216.1	413.7	1,038.7	1,015.8	45.282		
2,400.0	2,282.3	1,957.1	1,866.3	13.8	12.4	147.75	230.0	440.7	1,106.7	1,083.1	46.796		
2,500.0	2,374.0	2,030.3	1,932.9	14.4	12.7	147.95	243.9	467.8	1,174.8	1,150.4	48.196		
2,600.0	2,465.7	2,103.6	1,999.5	15.0	13.0	148.12	257.8	494.9	1,242.8	1,217.7	49.490		
2,700.0	2,557.3	2,176.8	2,066.1	15.7	13.3	148.28	271.7	522.0	1,310.8	1,285.0	50.684		
2,800.0	2,649.0	2,250.0	2,132.7	16.4	13.6	148.42	285.6	549.0	1,378.9	1,352.3	51.789		
2,900.0	2,740.7	2,323.3	2,199.3	17.1	13.9	148.54	299.5	576.1	1,446.9	1,419.5	52.815		
3,000.0	2,832.4	2,396.5	2,266.0	17.8	14.2	148.66	313.4	603.2	1,515.0	1,486.8	53.768		
3,100.0	2,924.0	2,469.8	2,332.6	18.5	14.5	148.76	327.3	630.3	1,583.1	1,554.1	54.650		
3,200.0	3,015.7	2,543.0	2,399.2	19.2	14.9	148.86	341.2	657.3	1,651.1	1,621.3	55.473		
3,300.0	3,107.4	2,616.2	2,465.8	20.0	15.2	148.95	355.1	684.4	1,719.2	1,688.6	56.239		
3,400.0	3,199.0	2,689.5	2,532.4	20.7	15.7	149.03	369.0	711.5	1,787.2	1,755.9	56.955		
3,500.0	3,290.7	2,762.7	2,599.0	21.4	16.2	149.11	382.9	738.5	1,855.3	1,823.1	57.623		
3,600.0	3,382.4	2,835.9	2,665.7	22.2	16.8	149.18	396.8	765.6	1,923.4	1,890.4	58.246		
3,700.0	3,474.0	2,909.2	2,732.3	22.9	17.3	149.24	410.7	792.7	1,991.4	1,957.6	58.831		
3,800.0	3,565.7	2,982.4	2,798.9	23.7	17.9	149.31	424.6	819.8	2,059.5	2,024.8	59.379		
3,900.0	3,657.4	3,055.7	2,865.5	24.4	18.4	149.36	438.5	846.8	2,127.6	2,092.1	59.893		
4,000.0	3,749.1	3,128.9	2,932.1	25.2	19.0	149.42	452.4	873.9	2,195.7	2,159.3	60.377		
4,100.0	3,840.7	3,202.1	2,998.7	25.9	19.5	149.47	466.3	901.0	2,263.7	2,226.5	60.832		
4,200.0	3,932.4	3,275.4	3,065.3	26.6	20.1	149.52	480.2	928.1	2,331.8	2,293.8	61.260		
4,300.0	4,024.1	3,348.6	3,132.0	27.4	20.6	149.56	494.1	955.1	2,399.9	2,361.0	61.663		
4,400.0	4,115.7	3,421.8	3,198.6	28.1	21.2	149.60	508.0	982.2	2,468.0	2,428.2	62.045		
4,500.0	4,207.4	3,495.1	3,265.2	28.9	21.7	149.64	521.9	1,009.3	2,536.0	2,495.4	62.405		
4,600.0	4,299.1	3,568.3	3,331.8	29.6	22.3	149.68	535.8	1,036.4	2,604.1	2,562.6	62.745		
4,700.0	4,390.8	3,641.6	3,398.4	30.4	22.9	149.72	549.7	1,063.4	2,672.2	2,629.8	63.068		
4,800.0	4,482.4	3,714.8	3,465.0	31.1	23.4	149.75	563.6	1,090.5	2,740.3	2,697.0	63.373		
4,900.0	4,574.1	3,788.0	3,531.6	31.9	24.0	149.79	577.5	1,117.6	2,808.4	2,764.3	63.663		
5,000.0	4,665.8	3,861.3	3,598.3	32.6	24.5	149.82	591.4	1,144.7	2,876.4	2,831.5	63.938		
5,100.0	4,757.4	3,934.5	3,664.9	33.4	25.1	149.85	605.3	1,171.7	2,944.5	2,898.7	64.199		

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 0993-20-17E - Slot B7
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 0993-20-17E	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	4,849.1	4,007.7	3,731.5	34.1	25.6	149.88	619.2	1,198.8	3,012.6	2,965.9	64.448		
5,300.0	4,940.8	4,081.0	3,798.1	34.9	26.2	149.90	633.1	1,225.9	3,080.7	3,033.1	64.684		
5,400.0	5,032.5	4,154.2	3,864.7	35.6	26.8	149.93	647.0	1,252.9	3,148.8	3,100.3	64.909		
5,500.0	5,124.1	4,227.5	3,931.3	36.4	27.3	149.95	660.9	1,280.0	3,216.9	3,167.5	65.122		
5,600.0	5,216.6	4,301.9	3,999.1	37.1	27.9	151.03	675.1	1,307.5	3,283.6	3,233.3	65.272		
5,700.0	5,310.6	4,378.8	4,069.0	37.7	28.5	151.97	689.7	1,336.0	3,347.5	3,296.2	65.292		
5,800.0	5,406.1	4,458.1	4,141.1	38.3	29.1	152.77	704.7	1,365.3	3,408.3	3,356.1	65.246		
5,900.0	5,502.7	4,539.5	4,215.1	38.7	29.7	153.44	720.2	1,395.4	3,466.0	3,412.8	65.142		
6,000.0	5,600.4	4,622.9	4,291.0	39.1	30.3	154.00	736.0	1,426.2	3,520.6	3,466.4	64.986		
6,100.0	5,698.9	4,708.1	4,368.5	39.4	31.0	154.46	752.2	1,457.7	3,571.8	3,516.6	64.786		
6,200.0	5,798.1	4,795.1	4,447.6	39.6	31.6	154.82	768.7	1,489.9	3,619.6	3,563.5	64.550		
6,300.0	5,897.7	4,883.5	4,528.1	39.8	32.3	155.10	785.5	1,522.6	3,664.0	3,607.0	64.288		
6,400.0	5,997.6	4,973.4	4,609.8	39.9	33.0	155.30	802.5	1,555.8	3,704.9	3,647.0	64.023		
6,500.0	6,097.6	5,064.2	4,692.4	39.9	33.7	90.37	819.8	1,589.3	3,742.7	3,684.2	64.001		
6,600.0	6,197.6	5,155.2	4,775.2	39.9	34.4	90.08	837.0	1,623.0	3,780.3	3,721.2	64.005		
6,700.0	6,297.6	5,246.1	4,857.9	40.0	35.1	89.80	854.3	1,656.6	3,818.0	3,758.3	64.008		
6,800.0	6,397.6	5,337.0	4,941.1	40.0	35.8	89.46	871.6	1,690.2	3,855.5	3,795.3	63.742		
6,900.0	6,497.6	5,427.9	5,024.3	40.0	36.5	89.12	888.9	1,723.8	3,892.5	3,832.3	63.476		
7,000.0	6,597.6	5,518.8	5,107.5	40.0	37.2	88.78	906.2	1,757.4	3,929.0	3,868.8	63.210		
7,100.0	6,697.6	5,609.7	5,190.7	40.1	37.9	88.44	923.5	1,791.0	3,965.5	3,905.3	62.944		
7,200.0	6,797.6	5,700.6	5,273.9	40.1	38.6	88.10	940.8	1,824.6	3,999.5	3,941.3	62.678		
7,300.0	6,897.6	5,791.5	5,357.1	40.1	39.3	87.76	958.1	1,858.2	4,033.0	3,977.3	62.412		
7,400.0	6,997.6	5,882.4	5,440.3	40.2	40.0	87.42	975.4	1,891.8	4,066.5	3,999.0	62.146		
7,500.0	7,097.6	5,973.3	5,523.5	40.2	40.7	87.08	992.7	1,925.4	4,099.5	4,020.7	61.880		
7,600.0	7,197.6	6,064.2	5,606.7	40.2	41.4	86.74	1,010.0	1,959.0	4,132.5	4,042.4	61.614		
7,700.0	7,297.6	6,155.1	5,690.0	40.2	42.1	86.40	1,027.3	1,992.6	4,165.0	4,064.1	61.348		
7,800.0	7,397.6	6,246.0	5,773.2	40.3	42.8	86.06	1,044.6	2,026.2	4,197.5	4,085.8	61.082		
7,900.0	7,497.6	6,336.9	5,856.4	40.3	43.5	85.72	1,061.9	2,059.8	4,229.5	4,107.5	60.816		
8,000.0	7,597.6	6,427.8	5,939.6	40.3	44.2	85.38	1,079.2	2,093.4	4,261.5	4,129.2	60.550		
8,100.0	7,697.6	6,518.7	6,022.8	40.4	44.9	85.04	1,096.5	2,127.0	4,293.0	4,150.9	60.284		
8,200.0	7,797.6	6,609.6	6,106.0	40.4	45.6	84.70	1,113.8	2,160.6	4,324.5	4,172.6	60.018		
8,219.4	7,817.0	6,265.4	7,817.0	40.4	41.8	87.46	1,012.7	1,965.2	3,848.5	3,776.8	53.655		

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 0993-20-17E - Slot B7
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 0993-20-17E	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	88.28	0.4	14.1	14.1				
100.0	100.0	100.0	100.0	0.8	0.8	88.28	0.4	14.1	14.1	12.6	8.926		
200.0	200.0	200.0	200.0	1.4	1.4	88.28	0.4	14.1	14.1	11.3	4.998		
210.0	210.0	210.0	210.0	1.5	1.4	88.28	0.4	14.1	14.1	11.2	4.880	CC	
300.0	300.0	299.7	299.7	1.9	1.7	87.63	0.6	14.6	14.7	11.1	4.154	ES	
400.0	400.0	398.8	398.7	2.2	3.0	174.13	2.0	18.7	20.1	14.9	3.908	SF	
500.0	499.8	496.7	496.3	3.6	4.3	171.59	4.9	26.6	33.9	26.1	4.359		
600.0	599.3	592.4	591.1	4.8	5.3	170.44	9.0	38.2	56.0	46.1	5.646		
700.0	698.3	684.9	682.3	5.8	6.2	169.91	14.2	52.9	86.2	74.6	7.400		
800.0	796.7	773.6	769.1	6.0	6.9	163.44	20.4	70.2	123.7	111.1	9.828		
900.0	894.3	858.3	851.2	6.6	7.6	157.68	27.3	89.8	167.2	153.5	12.234		
1,000.0	991.0	938.7	928.4	7.3	8.2	153.71	34.8	110.9	216.3	201.6	14.692		
1,100.0	1,086.6	1,014.6	1,000.5	7.9	8.7	150.76	42.7	133.2	270.7	255.1	17.280		
1,200.0	1,181.0	1,085.7	1,067.3	8.6	9.2	148.37	50.9	156.1	330.2	313.7	20.004		
1,300.0	1,273.9	1,155.9	1,132.5	9.2	9.5	146.38	59.6	180.6	394.2	377.1	22.958		
1,400.0	1,365.6	1,225.1	1,196.3	9.5	9.7	146.90	68.5	205.7	461.1	443.6	26.283		
1,500.0	1,457.3	1,298.7	1,264.3	9.8	9.9	148.10	78.0	232.5	528.3	510.3	29.283		
1,600.0	1,549.0	1,372.4	1,332.3	10.2	10.1	149.03	87.5	259.2	595.6	577.0	32.051		
1,700.0	1,640.6	1,446.1	1,400.3	10.6	10.4	149.78	97.0	285.9	663.0	643.8	34.619		
1,800.0	1,732.3	1,519.8	1,468.3	10.9	10.6	150.39	106.5	312.7	730.3	710.6	36.996		
1,900.0	1,824.0	1,593.4	1,536.3	11.3	10.9	150.89	116.0	339.4	797.8	777.4	39.192		
2,000.0	1,915.6	1,667.1	1,604.3	11.8	11.1	151.32	125.5	366.1	865.2	844.3	41.215		
2,100.0	2,007.3	1,740.8	1,672.3	12.2	11.4	151.69	135.0	392.9	932.7	911.1	43.085		
2,200.0	2,099.0	1,814.4	1,740.3	12.7	11.7	152.00	144.5	419.6	1,000.2	977.9	44.813		
2,300.0	2,190.7	1,888.1	1,808.3	13.2	12.0	152.28	154.0	446.3	1,067.8	1,044.7	46.408		
2,400.0	2,282.3	1,961.8	1,876.2	13.8	12.3	152.52	163.5	473.0	1,135.3	1,111.6	47.879		
2,500.0	2,374.0	2,035.5	1,944.2	14.4	12.6	152.74	173.0	499.8	1,202.8	1,178.4	49.242		
2,600.0	2,465.7	2,109.1	2,012.2	15.0	12.9	152.93	182.5	526.5	1,270.4	1,245.2	50.505		
2,700.0	2,557.3	2,182.8	2,080.2	15.7	13.2	153.11	192.0	553.2	1,337.9	1,312.0	51.674		
2,800.0	2,649.0	2,256.5	2,148.2	16.4	13.5	153.26	201.5	580.0	1,405.5	1,378.9	52.758		
2,900.0	2,740.7	2,330.2	2,216.2	17.1	13.8	153.41	211.0	606.7	1,473.1	1,445.7	53.766		
3,000.0	2,832.4	2,403.8	2,284.2	17.8	14.1	153.54	220.5	633.4	1,540.6	1,512.5	54.704		
3,100.0	2,924.0	2,477.5	2,352.2	18.5	14.5	153.66	230.0	660.2	1,608.2	1,579.3	55.576		
3,200.0	3,015.7	2,551.2	2,420.2	19.2	14.8	153.76	239.5	686.9	1,675.8	1,646.1	56.390		
3,300.0	3,107.4	2,624.8	2,488.2	20.0	15.1	153.87	249.0	713.6	1,743.4	1,712.9	57.150		
3,400.0	3,199.0	2,698.5	2,556.2	20.7	15.5	153.96	258.5	740.3	1,811.0	1,779.7	57.862		
3,500.0	3,290.7	2,772.2	2,624.2	21.4	15.9	154.05	268.0	767.1	1,878.5	1,846.4	58.525		
3,600.0	3,382.4	2,845.9	2,692.2	22.2	16.4	154.13	277.5	793.8	1,946.1	1,913.2	59.147		
3,700.0	3,474.0	2,919.5	2,760.1	22.9	16.9	154.20	287.0	820.5	2,013.7	1,980.0	59.735		
3,800.0	3,565.7	2,993.2	2,828.1	23.7	17.4	154.27	296.5	847.3	2,081.3	2,046.8	60.285		
3,900.0	3,657.4	3,066.9	2,896.1	24.4	17.9	154.34	306.0	874.0	2,148.9	2,113.6	60.801		
4,000.0	3,749.1	3,140.6	2,964.1	25.2	18.4	154.40	315.5	900.7	2,216.5	2,180.3	61.287		
4,100.0	3,840.7	3,214.2	3,032.1	25.9	19.0	154.46	325.0	927.5	2,284.1	2,247.1	61.746		
4,200.0	3,932.4	3,287.9	3,100.1	26.6	19.5	154.52	334.4	954.2	2,351.7	2,313.9	62.179		
4,300.0	4,024.1	3,361.6	3,168.1	27.4	20.0	154.57	343.9	980.9	2,419.3	2,380.7	62.587		
4,400.0	4,115.7	3,435.2	3,236.1	28.1	20.5	154.62	353.4	1,007.6	2,486.9	2,447.4	62.974		
4,500.0	4,207.4	3,508.9	3,304.1	28.9	21.0	154.66	362.9	1,034.4	2,554.5	2,514.2	63.340		
4,600.0	4,299.1	3,582.6	3,372.1	29.6	21.6	154.71	372.4	1,061.1	2,622.1	2,580.9	63.686		
4,700.0	4,390.8	3,656.3	3,440.1	30.4	22.1	154.75	381.9	1,087.8	2,689.7	2,647.7	64.015		
4,800.0	4,482.4	3,729.9	3,508.1	31.1	22.6	154.79	391.4	1,114.6	2,757.3	2,714.5	64.327		
4,900.0	4,574.1	3,803.6	3,576.1	31.9	23.1	154.83	400.9	1,141.3	2,824.9	2,781.2	64.623		
5,000.0	4,665.8	3,877.3	3,644.0	32.6	23.6	154.86	410.4	1,168.0	2,892.5	2,848.0	64.905		

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 0993-20-17E - Slot B7
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 0993-20-17E	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	
5,100.0	4,757.4	3,950.9	3,712.0	33.4	24.2	154.90	419.9	1,194.8	2,960.1	2,914.7	65.173		
5,200.0	4,849.1	4,024.6	3,780.0	34.1	24.7	154.93	429.4	1,221.5	3,027.8	2,981.5	65.428		
5,300.0	4,940.8	4,098.3	3,848.0	34.9	25.2	154.96	438.9	1,248.2	3,095.4	3,048.2	65.671		
5,400.0	5,032.5	4,172.0	3,916.0	35.6	25.7	154.99	448.4	1,274.9	3,163.0	3,115.0	65.903		
5,500.0	5,124.1	4,245.6	3,984.0	36.4	26.3	155.02	457.9	1,301.7	3,230.6	3,181.7	66.123		
5,600.0	5,216.6	4,320.6	4,053.2	37.1	26.8	155.92	467.6	1,328.9	3,296.8	3,247.0	66.271		
5,700.0	5,310.6	4,398.1	4,124.7	37.7	27.3	156.71	477.6	1,357.0	3,359.9	3,309.2	66.273		
5,800.0	5,406.1	4,478.0	4,198.4	38.3	27.9	157.37	487.9	1,386.0	3,420.0	3,368.3	66.199		
5,900.0	5,502.7	4,560.2	4,274.3	38.7	28.5	157.93	498.5	1,415.8	3,476.7	3,424.1	66.060		
6,000.0	5,600.4	4,644.5	4,352.1	39.1	29.1	158.39	509.3	1,446.4	3,530.1	3,476.5	65.863		
6,100.0	5,698.9	4,730.7	4,431.7	39.4	29.7	158.76	520.5	1,477.7	3,580.0	3,525.4	65.616		
6,200.0	5,798.1	4,818.7	4,512.9	39.6	30.3	159.05	531.8	1,509.6	3,626.4	3,570.9	65.328		
6,300.0	5,897.7	4,908.4	4,595.6	39.8	31.0	159.27	543.4	1,542.1	3,669.2	3,612.7	65.011		
6,400.0	5,997.6	4,999.4	4,679.7	39.9	31.6	159.43	555.1	1,575.2	3,708.3	3,650.9	64.689		
6,500.0	6,097.6	5,091.6	4,764.7	39.9	32.3	94.51	567.0	1,608.6	3,744.2	3,686.3	64.636		
6,600.0	6,197.6	5,183.9	4,849.9	39.9	32.9	94.27	578.9	1,642.1	3,779.8	3,721.3	64.613		
6,700.0	6,297.6	5,276.2	4,935.1	40.0	33.6	94.04	590.8	1,675.6	3,815.5	3,756.4	64.588		
6,800.0	6,397.6	5,368.4	5,020.3	40.0	34.3	93.80	602.7	1,708.1	3,851.0	3,791.9	64.563		
6,900.0	6,497.6	5,460.6	5,105.5	40.0	35.0	93.56	614.6	1,740.4	3,886.5	3,827.4	64.538		
7,000.0	6,597.6	5,552.8	5,190.7	40.0	35.7	93.32	626.5	1,772.7	3,922.0	3,862.9	64.513		
7,100.0	6,697.6	5,645.0	5,275.9	40.1	36.4	93.08	638.4	1,805.0	3,957.5	3,898.4	64.488		
7,200.0	6,797.6	5,737.2	5,361.1	40.1	37.1	92.84	650.3	1,837.3	3,993.0	3,933.9	64.463		
7,300.0	6,897.6	5,829.4	5,446.3	40.1	37.8	92.60	662.2	1,869.6	4,028.5	3,969.4	64.438		
7,400.0	6,997.6	5,921.6	5,531.5	40.2	38.5	92.36	674.1	1,901.9	4,064.0	4,004.9	64.413		
7,500.0	7,097.6	6,013.8	5,616.7	40.2	39.2	92.12	686.0	1,934.2	4,099.5	4,040.4	64.388		
7,600.0	7,197.6	6,106.0	5,701.9	40.2	39.9	91.88	697.9	1,966.5	4,135.0	4,075.9	64.363		
7,700.0	7,297.6	6,198.2	5,787.1	40.2	40.6	91.64	709.8	1,998.8	4,170.5	4,111.4	64.338		
7,800.0	7,397.6	6,290.4	5,872.3	40.3	41.3	91.40	721.7	2,031.1	4,206.0	4,146.9	64.313		
7,900.0	7,497.6	6,382.6	5,957.5	40.3	42.0	91.16	733.6	2,063.4	4,241.5	4,182.4	64.288		
8,000.0	7,597.6	6,474.8	6,042.7	40.3	42.7	90.92	745.5	2,095.7	4,277.0	4,217.9	64.263		
8,100.0	7,697.6	6,567.0	6,127.9	40.4	43.4	90.68	757.4	2,128.0	4,312.5	4,253.4	64.238		
8,200.0	7,797.6	6,659.2	6,213.1	40.4	44.1	90.44	769.3	2,160.3	4,348.0	4,288.9	64.213		
8,219.4	7,817.0	6,206.3	7,817.0	40.4	39.7	92.24	691.5	1,959.0	3,841.5	3,771.0	54.533		

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 0993-20-17E - Slot B7
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 0993-20-17E	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	106.70	-6.4	21.4	22.4					
100.0	100.0	100.0	100.0	0.8	0.8	106.70	-6.4	21.4	22.4	20.8	14.109			
200.0	200.0	200.0	200.0	1.4	1.4	106.70	-6.4	21.4	22.4	19.5	7.900			
205.6	205.6	205.6	205.6	1.4	1.4	106.70	-6.4	21.4	22.4	19.5	7.778	CC		
300.0	300.0	299.8	299.8	1.9	1.7	106.54	-6.4	21.5	22.5	18.9	6.302	ES		
400.0	400.0	398.7	398.7	2.2	2.7	-167.52	-5.7	24.7	26.6	21.7	5.475			
500.0	499.8	496.6	496.3	3.6	4.1	-173.76	-4.2	31.9	38.9	31.4	5.165	SF		
600.0	599.3	592.3	591.3	4.8	5.2	-178.21	-1.8	42.9	59.9	50.1	6.120			
700.0	698.3	684.9	682.8	5.8	6.0	179.13	1.3	57.2	89.1	77.6	7.696			
800.0	796.7	773.8	769.9	6.0	6.8	171.36	5.0	74.3	126.0	113.4	10.040			
900.0	894.3	858.6	852.3	6.6	7.5	164.80	9.1	93.7	169.2	155.5	12.399			
1,000.0	991.0	939.0	929.7	7.3	8.1	160.33	13.7	114.8	218.3	203.6	14.828			
1,100.0	1,086.6	1,014.6	1,001.9	7.9	8.6	157.04	18.5	137.1	273.0	257.3	17.403			
1,200.0	1,181.0	1,085.4	1,068.6	8.6	9.1	154.44	23.4	160.0	333.0	316.4	20.125			
1,300.0	1,273.9	1,151.9	1,130.6	9.2	9.3	152.22	28.4	183.4	397.7	380.5	23.208			
1,400.0	1,365.6	1,225.3	1,198.8	9.5	9.5	152.64	34.2	210.0	465.2	447.6	26.456			
1,500.0	1,457.3	1,298.6	1,266.9	9.8	9.8	153.66	39.9	236.7	532.8	514.8	29.493			
1,600.0	1,549.0	1,371.9	1,335.0	10.2	10.0	154.45	45.6	263.3	600.6	582.0	32.303			
1,700.0	1,640.6	1,445.2	1,403.0	10.6	10.2	155.08	51.4	289.9	668.4	649.3	34.914			
1,800.0	1,732.3	1,518.6	1,471.1	10.9	10.5	155.60	57.1	316.5	736.2	716.5	37.336			
1,900.0	1,824.0	1,591.9	1,539.2	11.3	10.7	156.02	62.8	343.1	804.1	783.8	39.579			
2,000.0	1,915.6	1,665.2	1,607.3	11.8	11.0	156.39	68.6	369.7	872.0	851.1	41.652			
2,100.0	2,007.3	1,738.5	1,675.4	12.2	11.3	156.70	74.3	396.3	939.9	918.3	43.571			
2,200.0	2,099.0	1,811.9	1,743.5	12.7	11.5	156.96	80.0	422.9	1,007.8	985.6	45.349			
2,300.0	2,190.7	1,885.2	1,811.6	13.2	11.8	157.20	85.7	449.5	1,075.7	1,052.8	46.992			
2,400.0	2,282.3	1,958.5	1,879.6	13.8	12.1	157.40	91.5	476.1	1,143.7	1,120.1	48.513			
2,500.0	2,374.0	2,031.8	1,947.7	14.4	12.4	157.59	97.2	502.7	1,211.6	1,187.3	49.924			
2,600.0	2,465.7	2,105.2	2,015.8	15.0	12.7	157.75	102.9	529.4	1,279.6	1,254.6	51.235			
2,700.0	2,557.3	2,178.5	2,083.9	15.7	13.0	157.90	108.6	556.0	1,347.5	1,321.8	52.449			
2,800.0	2,649.0	2,251.8	2,152.0	16.4	13.3	158.03	114.4	582.6	1,415.5	1,389.0	53.579			
2,900.0	2,740.7	2,325.1	2,220.1	17.1	13.6	158.15	120.1	609.2	1,483.4	1,456.3	54.631			
3,000.0	2,832.4	2,398.5	2,288.1	17.8	14.0	158.26	125.8	635.8	1,551.4	1,523.5	55.611			
3,100.0	2,924.0	2,471.8	2,356.2	18.5	14.3	158.36	131.6	662.4	1,619.4	1,590.7	56.524			
3,200.0	3,015.7	2,545.1	2,424.3	19.2	14.6	158.46	137.3	689.0	1,687.3	1,657.9	57.377			
3,300.0	3,107.4	2,618.4	2,492.4	20.0	14.9	158.54	143.0	715.6	1,755.3	1,725.1	58.175			
3,400.0	3,199.0	2,691.7	2,560.5	20.7	15.3	158.62	148.7	742.2	1,823.3	1,792.3	58.923			
3,500.0	3,290.7	2,765.1	2,628.6	21.4	15.6	158.70	154.5	768.8	1,891.2	1,859.5	59.622			
3,600.0	3,382.4	2,838.4	2,696.7	22.2	16.0	158.77	160.2	795.5	1,959.2	1,926.7	60.279			
3,700.0	3,474.0	2,911.7	2,764.7	22.9	16.4	158.83	165.9	822.1	2,027.2	1,993.9	60.896			
3,800.0	3,565.7	2,985.0	2,832.8	23.7	16.9	158.89	171.7	848.7	2,095.2	2,061.1	61.476			
3,900.0	3,657.4	3,058.4	2,900.9	24.4	17.4	158.95	177.4	875.3	2,163.2	2,128.3	62.021			
4,000.0	3,749.1	3,131.7	2,969.0	25.2	17.9	159.00	183.1	901.9	2,231.1	2,195.5	62.540			
4,100.0	3,840.7	3,205.0	3,037.1	25.9	18.4	159.05	188.8	928.5	2,299.1	2,262.6	63.024			
4,200.0	3,932.4	3,278.3	3,105.2	26.6	18.9	159.09	194.6	955.1	2,367.1	2,329.8	63.483			
4,300.0	4,024.1	3,351.7	3,173.2	27.4	19.4	159.14	200.3	981.7	2,435.1	2,397.0	63.917			
4,400.0	4,115.7	3,425.0	3,241.3	28.1	19.9	159.18	206.0	1,008.3	2,503.1	2,464.2	64.327			
4,500.0	4,207.4	3,498.3	3,309.4	28.9	20.4	159.22	211.8	1,034.9	2,571.0	2,531.3	64.716			
4,600.0	4,299.1	3,571.6	3,377.5	29.6	20.9	159.26	217.5	1,061.6	2,639.0	2,598.5	65.085			
4,700.0	4,390.8	3,645.0	3,445.6	30.4	21.4	159.29	223.2	1,088.2	2,707.0	2,665.7	65.435			
4,800.0	4,482.4	3,718.3	3,513.7	31.1	21.9	159.33	228.9	1,114.8	2,775.0	2,732.8	65.767			
4,900.0	4,574.1	3,791.6	3,581.8	31.9	22.4	159.36	234.7	1,141.4	2,843.0	2,800.0	66.083			
5,000.0	4,665.8	3,864.9	3,649.8	32.6	22.9	159.39	240.4	1,168.0	2,911.0	2,867.1	66.383			

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 0993-20-17E - Slot B7
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 0993-20-17E	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	
5,100.0	4,757.4	3,938.3	3,717.9	33.4	23.4	159.42	246.1	1,194.6	2,979.0	2,934.3	66.669		
5,200.0	4,849.1	4,011.6	3,786.0	34.1	23.9	159.45	251.9	1,221.2	3,047.0	3,001.4	66.941		
5,300.0	4,940.8	4,084.9	3,854.1	34.9	24.4	159.47	257.6	1,247.8	3,114.9	3,068.6	67.201		
5,400.0	5,032.5	4,158.2	3,922.2	35.6	24.9	159.50	263.3	1,274.4	3,182.9	3,135.7	67.449		
5,500.0	5,124.1	4,231.6	3,990.3	36.4	25.4	159.52	269.0	1,301.0	3,250.9	3,202.9	67.685		
5,600.0	5,216.6	4,306.2	4,059.6	37.1	25.9	160.28	274.9	1,328.1	3,317.5	3,268.6	67.840		
5,700.0	5,310.6	4,383.5	4,131.3	37.7	26.4	160.93	280.9	1,356.2	3,380.9	3,331.0	67.833		
5,800.0	5,406.1	4,463.3	4,205.4	38.3	27.0	161.48	287.1	1,385.1	3,441.1	3,390.3	67.743		
5,900.0	5,502.7	4,545.5	4,281.7	38.7	27.5	161.94	293.6	1,415.0	3,497.9	3,446.1	67.581		
6,000.0	5,600.4	4,629.8	4,360.1	39.1	28.1	162.32	300.2	1,445.6	3,551.3	3,498.6	67.356		
6,100.0	5,698.9	4,716.3	4,440.3	39.4	28.7	162.63	306.9	1,476.9	3,601.1	3,547.4	67.075		
6,200.0	5,798.1	4,804.6	4,522.3	39.6	29.3	162.87	313.8	1,509.0	3,647.3	3,592.7	66.749		
6,300.0	5,897.7	4,894.6	4,605.9	39.8	29.9	163.05	320.8	1,541.7	3,689.8	3,634.2	66.392		
6,400.0	5,997.6	4,986.1	4,690.9	39.9	30.6	163.17	328.0	1,574.9	3,728.5	3,672.0	66.028		
6,500.0	6,097.6	5,078.9	4,777.0	39.9	31.2	98.27	335.2	1,608.5	3,763.9	3,706.8	65.959		
6,600.0	6,197.6	5,171.7	4,863.2	39.9	31.9	98.07	342.5	1,642.2	3,799.0	3,741.4	65.924		
6,700.0	6,297.6	5,264.6	4,949.5	40.0	32.5	97.88	349.7	1,675.9	3,834.2	3,776.0	65.887		
6,800.0	6,397.6	5,357.8	5,035.7	40.0	33.1	97.69	357.0	1,709.6	3,868.7	3,810.6	65.850		
6,900.0	6,497.6	5,451.0	5,121.9	40.0	33.7	97.50	364.3	1,743.3	3,902.7	3,844.6	65.813		
7,000.0	6,597.6	5,544.2	5,208.1	40.0	34.3	97.31	371.6	1,777.0	3,936.7	3,878.6	65.776		
7,100.0	6,697.6	5,637.4	5,294.3	40.1	34.9	97.12	378.9	1,810.7	3,970.2	3,912.1	65.739		
7,200.0	6,797.6	5,730.6	5,380.5	40.1	35.5	96.93	386.2	1,844.4	4,003.7	3,945.6	65.702		
7,300.0	6,897.6	5,823.8	5,466.7	40.1	36.1	96.74	393.5	1,878.1	4,037.2	3,979.1	65.665		
7,400.0	6,997.6	5,917.0	5,552.9	40.2	36.7	96.55	400.8	1,911.8	4,070.7	4,012.6	65.628		
7,500.0	7,097.6	6,010.2	5,639.1	40.2	37.3	96.36	408.1	1,945.5	4,104.2	4,047.1	65.591		
7,600.0	7,197.6	6,103.4	5,725.3	40.2	37.9	96.17	415.4	1,979.2	4,137.7	4,081.6	65.554		
7,700.0	7,297.6	6,196.6	5,811.5	40.2	38.5	95.98	422.7	2,012.9	4,171.2	4,116.1	65.517		
7,800.0	7,397.6	6,289.8	5,897.7	40.3	39.1	95.79	430.0	2,046.6	4,204.7	4,150.6	65.480		
7,900.0	7,497.6	6,383.0	5,983.9	40.3	39.7	95.60	437.3	2,080.3	4,238.2	4,185.1	65.443		
8,000.0	7,597.6	6,476.2	6,070.1	40.3	40.3	95.41	444.6	2,114.0	4,271.7	4,219.6	65.406		
8,100.0	7,697.6	6,569.4	6,156.3	40.4	40.9	95.22	451.9	2,147.7	4,305.2	4,254.1	65.369		
8,200.0	7,797.6	6,662.6	6,242.5	40.4	41.5	95.03	459.2	2,181.4	4,338.7	4,288.6	65.332		
8,219.4	7,817.0	6,677.2	6,261.9	40.4	41.6	95.01	460.0	2,185.0	4,342.0	4,291.9	65.328		

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 0993-20-17E - Slot B7
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 0993-20-17E	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: 141-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	
0.0	0.0	56.9	56.9	0.0	0.3	-121.36	-1,307.1	-2,144.8	2,511.8				
100.0	100.0	886.5	870.0	0.8	7.9	-119.89	-1,189.0	-2,068.8	2,497.4	2,489.0	298.864		
200.0	200.0	1,004.8	981.3	1.4	8.3	-119.40	-1,154.5	-2,048.4	2,467.5	2,458.3	265.733		
300.0	300.0	1,077.8	1,049.8	1.9	8.5	-119.09	-1,132.8	-2,035.8	2,437.6	2,427.6	245.289		
400.0	400.0	1,150.7	1,118.5	2.2	8.8	-29.07	-1,111.4	-2,024.0	2,407.7	2,397.2	229.297		
500.0	499.8	1,227.3	1,190.9	3.6	9.1	-29.20	-1,089.3	-2,011.9	2,375.0	2,363.1	200.472		
600.0	599.3	1,303.0	1,262.6	4.8	9.4	-29.42	-1,068.2	-2,000.5	2,339.8	2,326.6	178.170		
700.0	698.3	1,370.3	1,326.6	5.8	9.6	-29.75	-1,049.9	-1,990.7	2,301.9	2,287.7	161.810		
800.0	796.7	1,478.4	1,429.5	6.0	10.0	-36.53	-1,020.4	-1,975.0	2,261.2	2,246.3	151.661		
900.0	894.3	1,563.5	1,510.2	6.6	10.4	-43.48	-996.9	-1,962.3	2,218.7	2,202.9	141.073		
1,000.0	991.0	1,634.5	1,577.8	7.3	10.6	-48.93	-977.5	-1,952.1	2,175.5	2,159.0	131.395		
1,100.0	1,086.6	1,793.2	1,728.7	7.9	11.4	-53.69	-934.9	-1,927.7	2,131.1	2,113.4	120.336		
1,200.0	1,181.0	1,870.0	1,801.4	8.6	11.7	-57.75	-913.9	-1,914.7	2,083.8	2,065.3	112.385		
1,300.0	1,273.9	2,014.7	1,937.5	9.2	12.5	-61.89	-872.9	-1,887.8	2,033.7	2,014.1	103.757		
1,400.0	1,365.6	2,084.7	2,003.2	9.5	12.8	-63.27	-852.8	-1,874.6	1,983.1	1,962.8	97.671		
1,500.0	1,457.3	2,152.1	2,066.7	9.8	13.1	-63.79	-833.9	-1,862.2	1,933.4	1,912.4	91.891		
1,600.0	1,549.0	2,260.3	2,168.5	10.2	13.6	-64.66	-803.1	-1,842.1	1,883.5	1,861.5	85.847		
1,700.0	1,640.6	2,322.7	2,227.3	10.6	13.9	-65.19	-785.5	-1,830.5	1,834.0	1,811.2	80.552		
1,800.0	1,732.3	2,446.3	2,343.4	10.9	14.5	-66.28	-750.2	-1,807.4	1,784.5	1,760.7	74.925		
1,900.0	1,824.0	2,517.3	2,409.9	11.3	14.9	-66.93	-729.2	-1,793.9	1,734.4	1,709.7	70.129		
2,000.0	1,915.6	2,584.5	2,473.0	11.8	15.2	-67.58	-709.8	-1,781.5	1,685.4	1,659.7	65.707		
2,100.0	2,007.3	2,649.7	2,534.5	12.2	15.5	-68.26	-691.7	-1,769.7	1,637.5	1,611.0	61.577		
2,200.0	2,099.0	2,718.0	2,599.3	12.7	15.8	-69.02	-673.5	-1,757.9	1,591.1	1,563.6	57.702		
2,300.0	2,190.7	2,819.0	2,695.0	13.2	16.3	-70.17	-646.1	-1,740.8	1,545.2	1,516.6	53.971		
2,400.0	2,282.3	2,876.1	2,749.2	13.8	16.6	-70.84	-630.6	-1,731.4	1,499.9	1,470.3	50.591		
2,500.0	2,374.0	2,978.7	2,846.7	14.4	17.2	-72.12	-603.2	-1,715.2	1,455.9	1,425.1	47.324		
2,600.0	2,465.7	3,061.4	2,924.9	15.0	17.6	-73.21	-580.2	-1,701.4	1,411.0	1,379.2	44.301		
2,700.0	2,557.3	3,166.7	3,024.6	15.7	18.1	-74.68	-551.2	-1,683.8	1,366.9	1,333.9	41.482		
2,800.0	2,649.0	3,250.2	3,103.3	16.4	18.5	-75.94	-527.6	-1,669.0	1,322.0	1,288.0	38.813		
2,900.0	2,740.7	3,325.5	3,174.5	17.1	18.9	-77.15	-506.8	-1,655.9	1,278.4	1,243.3	36.334		
3,000.0	2,832.4	3,424.6	3,268.2	17.8	19.4	-78.83	-479.5	-1,638.9	1,235.9	1,199.6	34.024		
3,100.0	2,924.0	3,521.2	3,358.8	18.5	19.9	-80.51	-450.3	-1,622.3	1,192.1	1,154.7	31.798		
3,200.0	3,015.7	3,595.9	3,429.0	19.2	20.2	-81.88	-428.0	-1,609.7	1,149.7	1,111.0	29.716		
3,300.0	3,107.4	3,672.3	3,501.0	20.0	20.6	-83.39	-405.7	-1,597.1	1,108.8	1,068.9	27.802		
3,400.0	3,199.0	3,748.8	3,573.2	20.7	21.0	-84.99	-384.0	-1,584.7	1,069.6	1,028.5	26.029		
3,500.0	3,290.7	3,847.5	3,666.5	21.4	21.4	-87.22	-356.1	-1,568.3	1,031.4	989.1	24.403		
3,600.0	3,382.4	3,922.8	3,737.5	22.2	21.8	-89.04	-334.9	-1,555.5	994.2	950.7	22.850		
3,700.0	3,474.0	3,997.0	3,807.9	22.9	22.2	-90.93	-314.5	-1,543.4	959.4	914.7	21.430		
3,800.0	3,565.7	4,088.0	3,894.4	23.7	22.6	-93.39	-290.1	-1,528.8	926.9	880.9	20.152		
3,900.0	3,657.4	4,178.7	3,980.1	24.4	23.1	-96.01	-265.0	-1,513.4	894.9	847.6	18.948		
4,000.0	3,749.1	4,269.0	4,065.5	25.2	23.5	-98.79	-240.1	-1,498.0	865.0	816.5	17.852		
4,100.0	3,840.7	4,358.4	4,149.7	25.9	24.0	-101.66	-214.2	-1,482.8	836.1	786.4	16.834		
4,200.0	3,932.4	4,442.1	4,228.7	26.6	24.4	-104.51	-190.5	-1,468.6	810.2	759.3	15.921		
4,300.0	4,024.1	4,537.7	4,318.5	27.4	24.9	-107.96	-162.4	-1,451.6	785.8	733.7	15.099		
4,400.0	4,115.7	4,615.2	4,391.4	28.1	25.3	-110.88	-139.8	-1,437.8	764.5	711.2	14.363		
4,500.0	4,207.4	4,696.0	4,467.5	28.9	25.7	-114.02	-116.7	-1,423.9	747.0	692.7	13.751		
4,600.0	4,299.1	4,771.4	4,539.0	29.6	26.0	-116.99	-95.8	-1,411.6	733.7	678.3	13.251		
4,700.0	4,390.8	4,846.9	4,610.8	30.4	26.4	-119.98	-75.8	-1,399.9	724.9	668.6	12.871		
4,800.0	4,482.4	4,926.2	4,686.4	31.1	26.8	-123.18	-55.8	-1,387.3	720.8	663.7	12.609		
4,853.4	4,531.3	4,971.0	4,729.3	31.5	27.0	-124.98	-44.6	-1,380.3	720.3	662.7	12.508	CC, ES	
4,900.0	4,574.1	5,007.3	4,764.0	31.9	27.2	-126.43	-35.8	-1,374.8	720.8	662.8	12.442		
5,000.0	4,665.8	5,083.7	4,837.5	32.6	27.6	-129.42	-17.9	-1,363.8	725.2	666.6	12.378	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 0993-20-17E - Slot B7
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 0993-20-17E	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	Piceance 29-07 Pad - Piceance 29-01E - Wellbore #1 - Wellbore #1	Offset Site Error:	0.0 usft
Survey Program:	141-MWD *DNU*	Offset Well Error:	0.0 usft

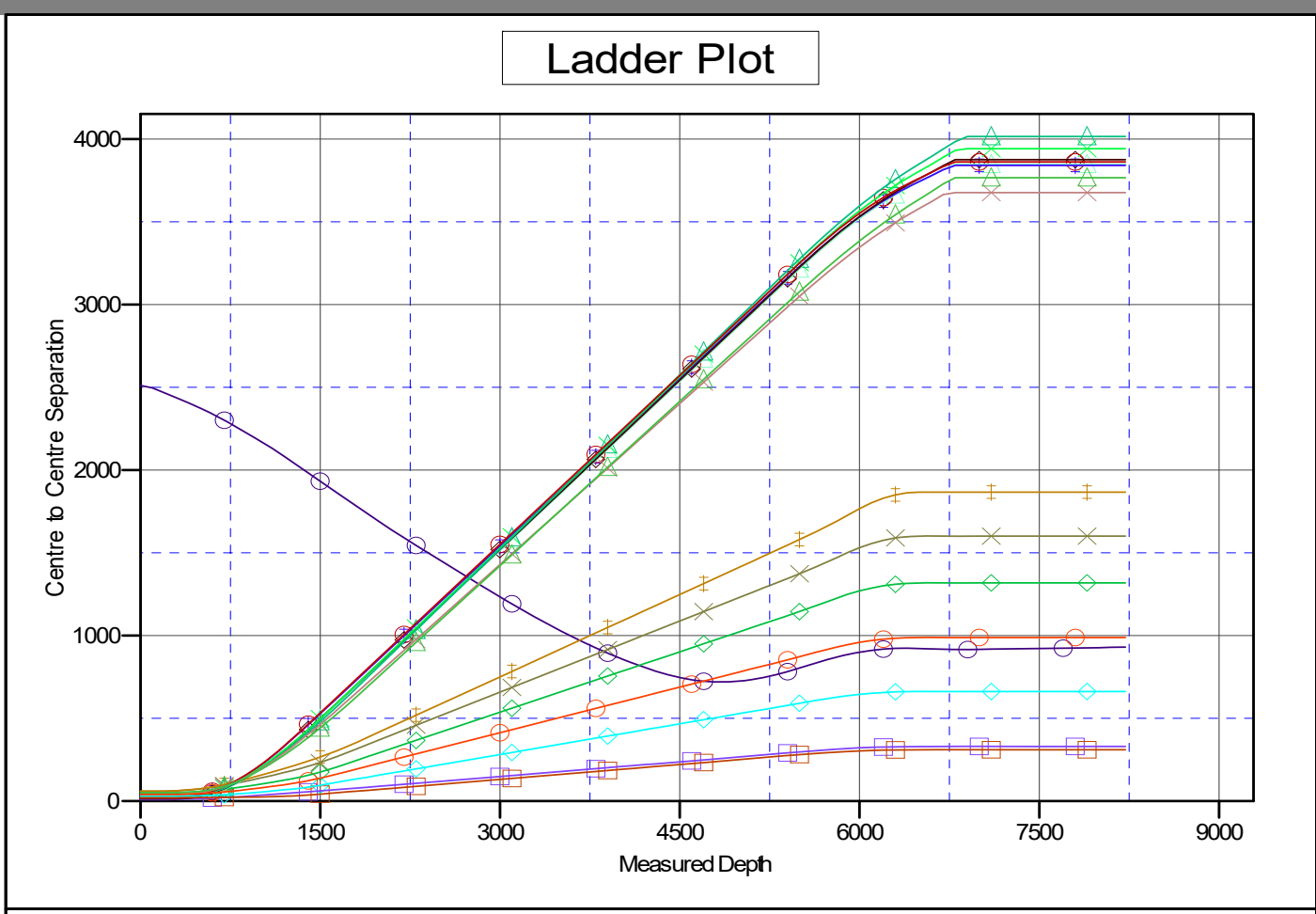
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning
5,100.0	4,757.4	5,158.7	4,910.0	33.4	28.0	-132.27	-1.7	-1,353.4	734.3	675.1	12.414	
5,200.0	4,849.1	5,244.1	4,992.7	34.1	28.4	-135.45	16.0	-1,341.3	747.3	687.6	12.520	
5,300.0	4,940.8	5,332.5	5,078.2	34.9	28.8	-138.64	34.3	-1,328.9	763.3	703.1	12.676	
5,400.0	5,032.5	5,413.4	5,156.9	35.6	29.2	-141.37	50.4	-1,318.5	782.2	721.5	12.894	
5,500.0	5,124.1	5,492.2	5,233.9	36.4	29.6	-143.81	64.5	-1,309.7	804.4	743.3	13.172	
5,600.0	5,216.6	5,579.5	5,319.6	37.1	30.0	-146.55	78.6	-1,300.7	827.8	766.2	13.447	
5,700.0	5,310.6	5,671.8	5,410.1	37.7	30.4	-149.10	94.0	-1,291.5	848.7	786.5	13.659	
5,800.0	5,406.1	5,755.3	5,492.4	38.3	30.8	-151.08	106.2	-1,283.9	868.1	805.5	13.868	
5,900.0	5,502.7	5,849.1	5,585.0	38.7	31.3	-152.90	118.6	-1,276.6	885.1	821.9	14.012	
6,000.0	5,600.4	5,940.7	5,675.8	39.1	31.7	-154.36	129.4	-1,270.6	899.2	835.6	14.120	
6,100.0	5,698.9	6,034.2	5,768.7	39.4	32.0	-155.54	139.0	-1,265.6	910.5	846.3	14.180	
6,200.0	5,798.1	6,129.0	5,863.0	39.6	32.4	-156.50	147.5	-1,261.1	918.4	853.7	14.193	
6,300.0	5,897.7	6,223.5	5,957.2	39.8	32.8	-157.20	154.6	-1,257.6	923.1	857.9	14.164	
6,400.0	5,997.6	6,319.8	6,053.2	39.9	33.1	-157.67	160.5	-1,254.9	924.3	858.7	14.091	
6,500.0	6,097.6	6,420.7	6,154.0	39.9	33.5	-137.16	165.9	-1,252.6	922.2	856.4	14.019	
6,600.0	6,197.6	6,519.4	6,252.6	39.9	33.8	136.90	170.7	-1,251.3	919.6	853.7	13.955	
6,700.0	6,297.6	6,609.5	6,342.6	40.0	34.1	136.75	173.5	-1,250.7	917.7	851.8	13.928	
6,800.0	6,397.6	6,700.4	6,433.4	40.0	34.3	136.59	175.8	-1,249.3	917.0	851.2	13.923	
6,900.0	6,497.6	6,798.0	6,531.0	40.0	34.6	136.44	177.6	-1,247.8	916.7	850.8	13.907	
6,904.4	6,502.1	6,802.0	6,535.0	40.0	34.6	136.44	177.6	-1,247.7	916.7	850.8	13.907	
7,000.0	6,597.6	6,889.4	6,622.4	40.0	34.8	136.27	179.2	-1,245.4	917.2	851.4	13.926	
7,100.0	6,697.6	6,986.8	6,719.7	40.1	35.1	136.08	180.5	-1,242.5	918.4	852.5	13.941	
7,200.0	6,797.6	7,088.3	6,821.2	40.1	35.3	135.93	181.4	-1,240.1	919.4	853.5	13.944	
7,300.0	6,897.6	7,187.4	6,920.2	40.1	35.5	135.84	181.6	-1,238.2	920.5	854.6	13.958	
7,400.0	6,997.6	7,287.1	7,020.0	40.2	35.6	135.77	181.5	-1,236.7	921.6	855.6	13.972	
7,500.0	7,097.6	7,389.8	7,122.7	40.2	35.7	135.73	181.2	-1,235.3	922.8	856.7	13.979	
7,600.0	7,197.6	7,490.5	7,223.4	40.2	35.7	135.72	180.8	-1,234.8	923.4	857.4	13.986	
7,700.0	7,297.6	7,594.2	7,327.1	40.2	35.6	135.76	179.9	-1,234.7	924.2	858.1	13.984	
7,800.0	7,397.6	7,688.5	7,421.4	40.3	35.4	135.81	178.9	-1,235.0	924.7	858.7	14.006	
7,900.0	7,497.6	7,783.0	7,515.8	40.3	35.2	135.92	176.7	-1,235.4	926.1	860.1	14.041	
8,000.0	7,597.6	7,881.8	7,614.6	40.3	35.1	136.03	174.3	-1,235.5	927.8	861.8	14.071	
8,100.0	7,697.6	7,984.8	7,717.5	40.4	34.9	136.13	172.0	-1,235.5	929.4	863.4	14.087	
8,200.0	7,797.6	8,088.5	7,821.2	40.4	34.7	136.25	169.8	-1,236.0	930.6	864.5	14.094	
8,219.4	7,817.0	8,109.6	7,842.3	40.4	34.6	136.27	169.4	-1,236.1	930.7	864.7	14.093	

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



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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 0993-20-17E	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 0993-20-17E - Slot B7
 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

- Piceance 29-01E, Wellbore #1, Wellbore #1 V0
- 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 0993-20-11E, OH, Design #2 V0
- Laramie 29-01 Fed 0993-21-15W, 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 Fed 0993-21-18W, 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

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

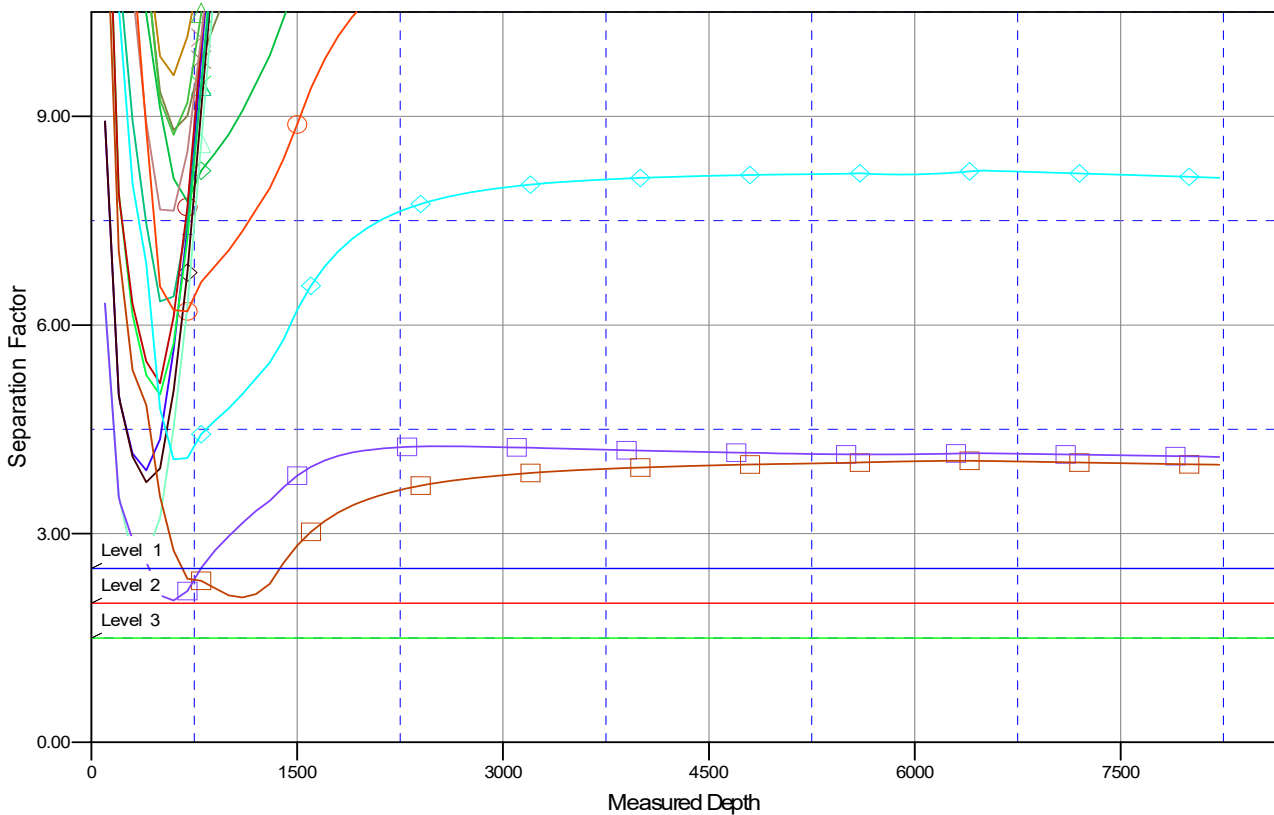


Company:	Laramie Energy, LLC	Local Co-ordinate Reference:	Well Laramie 29-01 0993-20-17E - Slot B7
Project:	Mesa County, CO	TVD Reference:	RKB=30' @ 7493.0usft (TBD)
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Site Error:	0.0 usft	North Reference:	True
Reference Well:	Laramie 29-01 0993-20-17E	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 0993-20-17E - Slot B7
 Coordinate System is US State Plane 1983, Colorado Central Zone
 Grid Convergence at Surface is: -1.44°

Separation Factor Plot



LEGEND

- Piceance 29-01E, Wellbore #1, Wellbore#1 V0
- Laramie 29-01 0993-20-11E, OH, Design#2 V0
- Laramie 29-01 0993-20-18E, OH, Design#2 V0
- Laramie 29-01 0993-20-13E, OH, Design#2 V0
- Laramie 29-01 Fed 0993-21-15W, OH, Design#2 V0
- Laramie 29-01 Fed 0993-21-12W, 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 Fed 0993-21-16W, OH, Design#2 V0
- Laramie 29-01 Fed 0993-21-13W, OH, Design#2 V0
- Laramie 29-01 Fed 0993-21-18W, OH, Design#2 V0
- Laramie 29-01 0993-20-15E, 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