



# **Laramie Energy, LLC**

**Mesa County, CO**

**Currier 0993-16-07 Pad**

**Currier BCU 0993-16-06W**

**OH**

**Design #3**

## **KLX Anticollision Report**

**23 September, 2025**





Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Currier BCU 0993-16-06W - Slot 16-06W
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Reference Site:</b>	Currier 0993-16-07 Pad	<b>MD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Currier BCU 0993-16-06W	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	KLXDirectional-AD
<b>Reference Design:</b>	Design #3	<b>Offset TVD Reference:</b>	Offset Datum

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

<b>Survey Tool Program</b>	<b>Date</b>	9/23/2025		
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.0	8,757.4	Design #3 (OH)	OWSG (REV5) MWD HD	OWSG MWD - Standard

Summary						
Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Currier 0993-16-07 Pad						
(Offset) Buzzard Creek 15-12 - Wellbore #1 - Wellbore #	147.7	7.3	2,727.3	2,726.1	2,382.914	CC
(Offset) Buzzard Creek 15-12 - Wellbore #1 - Wellbore #	400.0	239.4	2,728.0	2,724.0	683.851	ES
(Offset) Buzzard Creek 15-12 - Wellbore #1 - Wellbore #	8,700.0	8,610.0	4,166.9	4,105.1	67.451	SF
(Offset) Buzzard Creek 16-1 - Wellbore #1 - Wellbore #1	408.4	401.3	2,021.6	2,015.9	352.518	CC
(Offset) Buzzard Creek 16-1 - Wellbore #1 - Wellbore #1	600.0	594.0	2,024.1	2,013.7	195.048	ES
(Offset) Buzzard Creek 16-1 - Wellbore #1 - Wellbore #1	8,592.7	8,590.0	2,877.5	2,823.8	53.579	SF
(Offset) Buzzard Creek 16-10 - Wellbore #1 - Wellbore #	8,600.0	8,717.4	1,835.6	1,767.9	27.132	SF
(Offset) Buzzard Creek 16-10 - Wellbore #1 - Wellbore #	8,662.4	8,743.0	1,834.7	1,767.2	27.168	CC, ES
(Offset) Buzzard Creek 16-12 - Wellbore #1 - Wellbore #	8,600.0	8,325.0	1,798.6	1,733.5	27.632	CC
(Offset) Buzzard Creek 16-12 - Wellbore #1 - Wellbore #	8,604.4	8,325.0	1,798.6	1,733.5	27.628	ES
(Offset) Buzzard Creek 16-12 - Wellbore #1 - Wellbore #	8,700.0	8,325.0	1,801.3	1,736.1	27.615	SF
(Offset) Buzzard Creek 16-8 - Wellbore #1 - Wellbore #1	500.0	505.4	2,018.9	2,013.4	364.923	CC, ES
(Offset) Buzzard Creek 16-8 - Wellbore #1 - Wellbore #1	7,800.0	7,820.0	2,548.7	2,495.7	48.077	SF
(Offset) Buzzard Creek 21-1 - Wellbore #1 - Wellbore #1	140.0	0.0	2,698.9	2,697.9	2,593.030	CC
(Offset) Buzzard Creek 21-1 - Wellbore #1 - Wellbore #1	300.0	130.0	2,699.3	2,696.7	1,040.993	ES
(Offset) Buzzard Creek 21-1 - Wellbore #1 - Wellbore #1	8,757.4	8,660.0	4,716.6	4,654.8	76.271	SF
(Offset) Currier 9-15 - Wellbore #1 - Wellbore #1	1,508.0	1,482.8	1,208.6	1,197.5	109.536	CC, ES
(Offset) Currier 9-15 - Wellbore #1 - Wellbore #1	8,757.4	8,904.9	2,900.9	2,848.9	55.795	SF
(Offset) Currier Family 16-3 - Wellbore #1 - Wellbore #1	0.0	0.0	1,215.2			
(Offset) Currier Family 16-3 - Wellbore #1 - Wellbore #1	3,400.0	3,338.4	1,232.0	1,208.3	51.943	ES
(Offset) Currier Family 16-3 - Wellbore #1 - Wellbore #1	8,700.0	8,650.0	1,336.3	1,276.2	22.234	SF
Currier 0993-16-01M - OH - Design #3	200.0	200.0	50.0	47.2	17.674	CC, ES
Currier 0993-16-01M - OH - Design #3	500.0	494.9	62.9	56.6	9.924	SF
Currier 0993-16-03M - OH - Design #2	208.3	208.3	40.0	37.1	13.809	CC
Currier 0993-16-03M - OH - Design #2	300.0	299.8	40.0	36.5	11.144	ES
Currier 0993-16-03M - OH - Design #2	600.0	596.4	52.8	46.3	8.182	SF
Currier 0993-16-04M - OH - Design #4	210.0	210.0	30.0	27.1	10.329	CC
Currier 0993-16-04M - OH - Design #4	400.0	399.6	30.8	26.5	7.165	ES
Currier 0993-16-04M - OH - Design #4	500.0	499.0	33.3	28.2	6.570	SF
Currier BCU 0993-16-05M - OH - Design #2	400.0	400.0	10.0	5.5	2.242	Level 1, CC
Currier BCU 0993-16-05M - OH - Design #2	500.0	500.0	10.1	5.2	2.055	Level 1, ES, SF
Currier BCU 0993-16-07M - OH - Design #2	400.0	400.0	10.0	5.5	2.237	Level 1, CC, ES
Currier BCU 0993-16-07M - OH - Design #2	600.0	599.4	13.3	7.1	2.144	Level 1, SF
Currier BCU 0993-16-08M - OH - Design #3	744.0	743.6	26.4	20.2	4.233	CC, ES
Currier BCU 0993-16-08M - OH - Design #3	800.0	799.2	27.1	20.5	4.090	SF
Currier BCU 0993-16-09M - OH - Design #2	202.4	202.4	14.1	11.3	4.966	CC

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



Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Currier BCU 0993-16-06W - Slot 16-06W
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Reference Site:</b>	Currier 0993-16-07 Pad	<b>MD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Currier BCU 0993-16-06W	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	KLXDirectional-AD
<b>Reference Design:</b>	Design #3	<b>Offset TVD Reference:</b>	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Currier 0993-16-07 Pad						
Currier BCU 0993-16-09M - OH - Design #2	300.0	299.9	14.3	10.8	4.041	ES
Currier BCU 0993-16-09M - OH - Design #2	400.0	399.3	17.0	12.3	3.610	SF
Currier BCU 0993-16-11E - OH - Design #3	200.0	200.0	51.1	48.3	18.061	CC
Currier BCU 0993-16-11E - OH - Design #3	300.0	299.1	51.9	48.1	13.746	ES
Currier BCU 0993-16-11E - OH - Design #3	600.0	594.1	73.4	66.0	10.009	SF
Currier BCU 0993-16-13E - OH - Design #3	210.0	210.0	41.2	38.3	14.234	CC
Currier BCU 0993-16-13E - OH - Design #3	300.0	299.8	41.4	37.9	11.853	ES
Currier BCU 0993-16-13E - OH - Design #3	600.0	595.6	56.6	49.5	7.938	SF
Currier BCU 0993-16-13W - OH - Design #2	210.0	210.0	22.4	19.5	7.737	CC, ES
Currier BCU 0993-16-13W - OH - Design #2	400.0	398.1	28.2	22.9	5.269	SF
Currier BCU 0993-16-14E - OH - Design #2	108.5	108.5	31.6	29.9	18.802	CC
Currier BCU 0993-16-14E - OH - Design #2	300.0	299.7	32.1	28.4	8.828	ES
Currier BCU 0993-16-14E - OH - Design #2	500.0	497.5	40.6	34.5	6.640	SF
Currier BCU 0993-16-14W - OH - Design #3	200.0	200.0	10.0	7.2	3.534	CC, ES
Currier BCU 0993-16-14W - OH - Design #3	400.0	398.8	17.5	11.7	3.011	SF
Currier BCU 0993-16-15E - OH - Design #3	200.0	200.0	22.4	19.5	7.905	CC
Currier BCU 0993-16-15E - OH - Design #3	300.0	299.8	22.8	19.2	6.195	ES
Currier BCU 0993-16-15E - OH - Design #3	500.0	497.8	32.4	26.0	5.079	SF
Currier BCU 0993-16-15W - OH - Design #2	113.0	113.0	14.2	12.4	8.138	CC
Currier BCU 0993-16-15W - OH - Design #2	300.0	299.7	15.2	11.2	3.828	ES
Currier BCU 0993-16-15W - OH - Design #2	400.0	399.0	19.5	13.9	3.506	SF
Currier BCU Fed 0993-16-12W - OH - Design #3	113.0	113.0	31.6	29.9	18.184	CC
Currier BCU Fed 0993-16-12W - OH - Design #3	200.0	199.9	31.6	28.9	11.579	ES
Currier BCU Fed 0993-16-12W - OH - Design #3	400.0	397.6	38.4	32.9	6.929	SF

Offset Design										Offset Site Error:	0.0 usft	
Survey Program: 219-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	134.01	-1,894.7	1,961.6	2,730.9			
100.0	100.0	0.0	0.0	0.8	0.0	134.01	-1,894.7	1,961.6	2,727.6	2,726.8	3,440.791	
147.7	147.7	7.3	7.3	1.1	0.1	134.01	-1,894.7	1,961.6	2,727.3	2,726.1	2,382.914	CC
200.0	200.0	56.7	56.7	1.4	0.4	134.01	-1,894.8	1,961.6	2,727.3	2,725.5	1,479.377	
300.0	300.0	151.3	151.3	1.9	1.1	134.01	-1,895.0	1,961.7	2,727.5	2,724.5	905.683	
400.0	400.0	239.4	239.4	2.2	1.8	134.01	-1,895.4	1,961.9	2,728.0	2,724.0	683.851	ES
500.0	500.0	313.9	313.9	2.4	2.2	-151.48	-1,895.9	1,962.7	2,729.5	2,725.0	607.907	
600.0	599.9	490.3	490.3	3.1	2.9	-151.55	-1,894.0	1,963.5	2,731.3	2,725.5	474.358	
700.0	699.7	546.9	546.8	4.1	3.0	-151.55	-1,893.2	1,964.0	2,736.7	2,729.9	401.021	
800.0	799.2	625.1	625.0	4.9	3.4	-151.58	-1,892.3	1,966.2	2,746.8	2,738.9	345.388	
900.0	898.3	734.3	734.1	5.6	3.9	-151.71	-1,889.4	1,970.2	2,759.6	2,750.5	304.009	
1,000.0	996.8	813.5	813.2	6.3	4.1	-151.78	-1,886.9	1,973.8	2,775.8	2,765.9	281.634	
1,100.0	1,094.9	896.3	895.9	6.5	4.2	-152.00	-1,884.4	1,978.4	2,794.9	2,784.7	272.479	
1,200.0	1,193.0	1,000.2	999.4	6.8	4.4	-152.34	-1,880.5	1,984.8	2,814.2	2,803.5	261.347	
1,300.0	1,291.1	1,098.4	1,097.3	7.1	4.7	-152.67	-1,876.5	1,990.9	2,833.5	2,822.2	250.443	
1,400.0	1,389.1	1,192.8	1,191.5	7.4	5.0	-152.98	-1,872.8	1,996.8	2,852.9	2,841.0	241.406	
1,500.0	1,487.2	1,304.9	1,303.3	7.8	5.3	-153.35	-1,868.1	2,003.9	2,872.3	2,859.9	231.906	
1,600.0	1,585.3	1,429.1	1,427.0	8.1	5.8	-153.79	-1,860.5	2,012.0	2,890.6	2,877.5	221.682	
1,700.0	1,683.4	1,516.0	1,513.6	8.5	6.2	-154.09	-1,855.3	2,017.6	2,909.1	2,895.5	213.792	

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



# Anticollision Report



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<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Reference Site:</b>	Currier 0993-16-07 Pad	<b>MD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Currier BCU 0993-16-06W	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	KLXDirectional-AD
<b>Reference Design:</b>	Design #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Currier 0993-16-07 Pad - (Offset) Buzzard Creek 15-12 - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 219-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)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
1,800.0	1,781.4	1,616.3	1,613.5	8.9	6.6	-154.43	-1,849.4	2,024.1	2,927.8	2,913.6	205.846		
1,900.0	1,879.5	1,716.9	1,713.6	9.3	7.0	-154.78	-1,843.2	2,030.5	2,946.4	2,931.5	198.522		
2,000.0	1,977.6	1,809.5	1,805.9	9.7	7.4	-155.09	-1,837.4	2,036.6	2,965.0	2,949.6	191.996		
2,100.0	2,075.7	1,896.7	1,892.7	10.1	7.7	-155.38	-1,832.1	2,042.4	2,984.1	2,968.0	186.094		
2,200.0	2,173.7	1,990.9	1,986.6	10.5	8.1	-155.70	-1,826.4	2,048.9	3,003.4	2,986.7	180.348		
2,300.0	2,271.8	2,077.4	2,072.7	10.9	8.4	-155.98	-1,821.3	2,055.0	3,023.0	3,005.7	175.214		
2,400.0	2,369.9	2,163.3	2,158.2	11.3	8.8	-156.26	-1,816.4	2,061.3	3,043.0	3,025.2	170.432		
2,500.0	2,468.0	2,255.7	2,250.2	11.7	9.1	-156.55	-1,811.5	2,068.1	3,063.4	3,044.9	165.762		
2,600.0	2,566.0	2,340.3	2,334.5	12.1	9.5	-156.82	-1,807.1	2,074.5	3,084.0	3,065.0	161.568		
2,700.0	2,664.1	2,447.3	2,441.1	12.5	9.9	-157.15	-1,801.7	2,082.8	3,105.0	3,085.3	157.088		
2,800.0	2,762.2	2,563.7	2,556.9	13.0	10.4	-157.51	-1,795.0	2,091.3	3,125.3	3,104.8	152.658		
2,900.0	2,860.3	2,659.5	2,652.3	13.4	10.8	-157.80	-1,789.3	2,098.1	3,145.5	3,124.4	148.944		
3,000.0	2,958.3	2,745.1	2,737.5	13.8	11.1	-158.07	-1,784.1	2,104.6	3,165.9	3,144.2	145.648		
3,100.0	3,056.4	2,842.1	2,834.1	14.3	11.5	-158.37	-1,778.3	2,112.1	3,186.7	3,164.3	142.298		
3,200.0	3,154.5	2,937.2	2,928.7	14.7	11.9	-158.65	-1,772.6	2,119.4	3,207.4	3,184.4	139.150		
3,300.0	3,252.6	3,031.7	3,022.6	15.1	12.2	-158.94	-1,766.6	2,127.0	3,228.4	3,204.7	136.215		
3,400.0	3,350.6	3,130.1	3,120.5	15.6	12.6	-159.25	-1,759.7	2,135.2	3,249.4	3,225.0	133.482		
3,500.0	3,448.7	3,217.8	3,207.6	16.0	13.0	-159.55	-1,752.9	2,143.3	3,270.5	3,245.6	130.994		
3,600.0	3,546.8	3,300.5	3,289.5	16.5	13.3	-159.83	-1,746.2	2,151.4	3,292.2	3,266.6	128.582		
3,700.0	3,644.9	3,395.3	3,383.6	16.9	13.7	-160.15	-1,738.2	2,161.2	3,314.1	3,287.9	126.148		
3,800.0	3,743.0	3,514.9	3,501.9	17.4	14.2	-160.58	-1,726.8	2,173.9	3,335.9	3,308.9	123.465		
3,900.0	3,841.0	3,572.8	3,559.1	17.8	14.4	-160.80	-1,720.7	2,180.7	3,358.0	3,330.4	121.762		
4,000.0	3,939.1	3,642.8	3,628.0	18.3	14.8	-161.09	-1,712.7	2,190.0	3,381.1	3,352.9	119.923		
4,100.0	4,037.2	3,711.1	3,695.0	18.7	15.1	-161.38	-1,704.0	2,200.1	3,404.9	3,376.1	118.145		
4,200.0	4,135.3	3,784.0	3,766.1	19.2	15.5	-161.72	-1,694.0	2,212.5	3,430.0	3,400.5	116.324		
4,300.0	4,233.3	3,815.8	3,797.0	19.6	15.7	-161.88	-1,689.4	2,218.5	3,456.1	3,426.1	115.282		
4,400.0	4,331.4	3,877.0	3,856.3	20.1	16.1	-162.18	-1,680.6	2,230.9	3,483.9	3,453.3	113.753		
4,500.0	4,429.5	3,913.0	3,891.0	20.5	16.3	-162.37	-1,675.3	2,238.8	3,512.9	3,481.7	112.789		
4,600.0	4,527.6	3,970.0	3,945.7	21.0	16.6	-162.67	-1,666.5	2,252.2	3,543.2	3,511.4	111.460		
4,700.0	4,625.6	4,031.0	4,003.9	21.4	16.9	-163.01	-1,656.6	2,267.5	3,574.6	3,542.2	110.202		
4,800.0	4,723.7	4,120.1	4,088.5	21.9	17.3	-163.51	-1,641.2	2,290.8	3,606.7	3,573.4	108.356		
4,900.0	4,821.8	4,185.1	4,149.8	22.3	17.7	-163.90	-1,628.7	2,308.5	3,639.2	3,605.2	107.017		
5,000.0	4,919.9	4,252.2	4,212.7	22.8	18.0	-164.31	-1,615.2	2,327.6	3,672.6	3,637.8	105.662		
5,100.0	5,017.9	4,323.5	4,279.3	23.3	18.4	-164.75	-1,600.8	2,348.3	3,706.7	3,671.2	104.257		
5,200.0	5,116.0	4,403.6	4,354.3	23.7	18.8	-165.23	-1,584.8	2,371.9	3,741.5	3,705.1	102.730		
5,300.0	5,214.1	4,500.1	4,444.5	24.2	19.3	-165.80	-1,565.5	2,400.2	3,776.6	3,739.2	100.933		
5,400.0	5,312.2	4,626.5	4,562.4	24.6	19.9	-166.57	-1,538.7	2,437.0	3,811.3	3,772.7	98.595		
5,500.0	5,410.6	4,713.0	4,642.9	25.1	20.3	-167.23	-1,519.3	2,462.0	3,844.0	3,804.4	96.965		
5,600.0	5,509.6	4,792.1	4,716.4	25.7	20.7	-167.82	-1,501.5	2,485.1	3,874.0	3,833.4	95.451		
5,700.0	5,609.0	4,838.0	4,759.1	26.2	21.0	-168.19	-1,491.3	2,498.6	3,901.6	3,860.4	94.645		
5,800.0	5,708.7	4,906.5	4,822.7	26.6	21.3	-168.65	-1,476.5	2,519.4	3,926.9	3,884.9	93.426		
5,900.0	5,808.6	4,961.0	4,873.2	27.0	21.6	-169.01	-1,465.2	2,536.3	3,950.1	3,907.4	92.596		
6,000.0	5,908.6	5,066.3	4,970.8	27.1	22.1	115.93	-1,443.6	2,569.3	3,970.8	3,927.4	91.397		
6,100.0	6,008.6	5,152.5	5,050.7	27.1	22.6	115.52	-1,425.7	2,596.3	3,991.1	3,947.1	90.727		
6,200.0	6,108.6	5,297.4	5,184.7	27.2	23.3	114.83	-1,394.4	2,641.8	4,011.6	3,966.5	89.050		
6,300.0	6,208.6	5,485.4	5,359.0	27.2	24.2	113.92	-1,350.9	2,697.2	4,029.7	3,983.3	86.735		
6,400.0	6,308.6	5,571.9	5,439.2	27.2	24.7	113.50	-1,330.1	2,722.1	4,047.5	4,000.5	86.101		
6,500.0	6,408.6	5,667.9	5,528.3	27.3	25.2	113.05	-1,307.7	2,749.7	4,065.7	4,018.0	85.344		
6,600.0	6,508.6	5,780.0	5,633.2	27.3	25.8	112.56	-1,283.4	2,780.9	4,083.8	4,035.4	84.393		
6,700.0	6,608.6	5,926.9	5,772.0	27.3	26.7	111.97	-1,254.5	2,819.5	4,101.4	4,052.0	82.990		
6,800.0	6,708.6	6,062.9	5,901.9	27.4	27.4	111.49	-1,231.1	2,852.3	4,117.9	4,067.6	81.881		

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Currier BCU 0993-16-06W - Slot 16-06W
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Reference Site:</b>	Currier 0993-16-07 Pad	<b>MD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Currier BCU 0993-16-06W	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	KLXDirectional-AD
<b>Reference Design:</b>	Design #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Currier 0993-16-07 Pad - (Offset) Buzzard Creek 15-12 - Wellbore #1 - Wellbore #1												Offset Well Error:	0.0 usft
Survey Program: 219-OWSG (REV5) MWD HDGM Standard													
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance		Separation Factor	Warning	
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)				Between Centres (usft)	Between Ellipses (usft)			
6,900.0	6,808.6	6,274.2	6,106.0	27.4	28.5	110.86	-1,200.4	2,897.5	4,133.1	4,081.6	80.179		
7,000.0	6,908.6	6,493.5	6,319.4	27.4	29.5	110.27	-1,169.9	2,937.2	4,145.5	4,092.8	78.639		
7,100.0	7,008.6	6,665.0	6,487.9	27.5	30.3	109.88	-1,149.8	2,962.3	4,155.3	4,101.8	77.688		
7,200.0	7,108.6	6,913.7	6,733.6	27.5	31.4	109.42	-1,124.4	2,991.0	4,162.9	4,108.4	76.406		
7,300.0	7,208.6	7,093.8	6,912.2	27.5	32.2	109.13	-1,107.2	3,005.9	4,167.6	4,112.5	75.572		
7,400.0	7,308.6	7,216.9	7,034.7	27.6	32.9	108.95	-1,096.6	3,014.1	4,171.2	4,115.5	74.875		
7,500.0	7,408.6	7,346.3	7,163.5	27.6	33.6	108.80	-1,087.4	3,021.2	4,174.0	4,117.8	74.172		
7,600.0	7,508.6	7,495.2	7,312.1	27.6	34.4	108.67	-1,079.1	3,027.2	4,176.1	4,119.2	73.408		
7,700.0	7,608.6	7,661.4	7,478.0	27.7	35.2	108.55	-1,071.2	3,030.8	4,176.6	4,119.1	72.591		
7,800.0	7,708.6	7,798.5	7,615.0	27.7	35.8	108.47	-1,065.7	3,031.5	4,175.8	4,117.8	71.995		
7,900.0	7,808.6	7,898.2	7,714.7	27.7	36.1	108.44	-1,062.6	3,031.4	4,174.7	4,116.4	71.680		
8,000.0	7,908.6	7,997.9	7,814.4	27.8	36.4	108.41	-1,060.4	3,030.9	4,173.6	4,115.1	71.369		
8,100.0	8,008.6	8,097.7	7,914.1	27.8	36.8	108.39	-1,059.0	3,030.2	4,172.5	4,113.7	70.988		
8,200.0	8,108.6	8,197.7	8,014.1	27.9	37.3	108.38	-1,058.0	3,029.4	4,171.4	4,112.0	70.272		
8,300.0	8,208.6	8,297.7	8,114.1	27.9	37.9	108.37	-1,057.0	3,028.6	4,170.3	4,110.4	69.570		
8,400.0	8,308.6	8,397.7	8,214.1	27.9	38.5	108.36	-1,055.9	3,027.8	4,169.2	4,108.7	68.882		
8,500.0	8,408.6	8,497.7	8,314.1	28.0	39.0	108.35	-1,054.9	3,027.0	4,168.1	4,107.0	68.209		
8,600.0	8,508.6	8,597.7	8,414.0	28.0	39.6	108.34	-1,053.9	3,026.2	4,167.0	4,105.3	67.549		
8,657.7	8,566.4	8,610.0	8,426.4	28.0	39.7	108.34	-1,053.8	3,026.1	4,166.6	4,104.9	67.453		
8,700.0	8,608.6	8,610.0	8,426.4	28.0	39.7	108.34	-1,053.8	3,026.1	4,166.9	4,105.1	67.451 SF		
8,757.4	8,666.0	8,610.0	8,426.4	28.1	39.7	108.34	-1,053.8	3,026.1	4,167.8	4,106.1	67.475		

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Currier BCU 0993-16-06W - Slot 16-06W
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Reference Site:</b>	Currier 0993-16-07 Pad	<b>MD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Currier BCU 0993-16-06W	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	KLXDirectional-AD
<b>Reference Design:</b>	Design #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design											Currier 0993-16-07 Pad - (Offset) Buzzard Creek 16-1 - Wellbore #1 - Wellbore #1	Offset Site Error:	0.0 usft
Survey Program: 200-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	66.68	800.5	1,856.7	2,021.9				
100.0	100.0	91.8	91.8	0.8	0.7	66.67	800.6	1,856.6	2,021.9	2,020.4	1,402.222		
200.0	200.0	192.7	192.7	1.4	1.4	66.67	800.8	1,856.5	2,021.8	2,019.0	727.655		
300.0	300.0	292.8	292.8	1.9	2.3	66.65	801.2	1,856.2	2,021.7	2,017.6	483.384		
400.0	400.0	392.8	392.8	2.2	3.4	66.64	801.5	1,856.0	2,021.6	2,016.1	364.403		
408.4	408.4	401.3	401.2	2.2	3.5	141.14	801.6	1,855.9	2,021.6	2,015.9	352.518	CC	
500.0	500.0	493.4	493.4	2.4	5.4	141.13	802.0	1,855.7	2,021.8	2,014.0	260.155		
600.0	599.9	594.0	594.0	3.1	7.5	141.14	802.5	1,855.3	2,024.1	2,013.7	195.048	ES	
700.0	699.7	694.4	694.4	4.1	9.6	141.17	803.2	1,854.8	2,029.1	2,015.9	154.075		
800.0	799.2	794.6	794.6	4.9	11.6	141.23	804.0	1,854.2	2,036.8	2,020.9	128.403		
900.0	898.3	894.4	894.4	5.6	13.7	141.31	804.9	1,853.6	2,047.2	2,028.7	110.672		
1,000.0	996.8	993.1	993.1	6.3	15.4	141.40	805.9	1,852.9	2,060.3	2,039.6	99.486		
1,100.0	1,094.9	1,088.8	1,088.8	6.5	15.6	141.66	806.6	1,852.4	2,075.4	2,054.2	98.179		
1,200.0	1,193.0	1,182.5	1,182.5	6.8	15.8	141.96	807.3	1,852.1	2,090.8	2,069.2	96.822		
1,300.0	1,291.1	1,276.2	1,276.1	7.1	16.0	142.25	808.1	1,852.0	2,106.5	2,084.4	95.440		
1,400.0	1,389.1	1,374.4	1,374.4	7.4	16.2	142.54	809.1	1,851.9	2,122.4	2,099.8	93.897		
1,500.0	1,487.2	1,479.3	1,479.3	7.8	16.5	142.85	810.3	1,851.6	2,138.2	2,115.0	92.133		
1,600.0	1,585.3	1,584.4	1,584.3	8.1	16.8	143.14	811.6	1,850.8	2,153.7	2,129.8	90.408		
1,700.0	1,683.4	1,681.8	1,681.7	8.5	17.1	143.40	812.9	1,850.0	2,169.1	2,144.6	88.769		
1,800.0	1,781.4	1,779.3	1,779.2	8.9	17.4	143.66	814.3	1,849.1	2,184.5	2,159.5	87.188		
1,900.0	1,879.5	1,877.0	1,876.9	9.3	17.7	143.92	815.8	1,848.3	2,200.1	2,174.4	85.677		
2,000.0	1,977.6	1,974.8	1,974.7	9.7	18.0	144.16	817.4	1,847.4	2,215.7	2,189.4	84.239		
2,100.0	2,075.7	2,072.7	2,072.5	10.1	18.3	144.40	819.3	1,846.4	2,231.4	2,204.5	82.855		
2,200.0	2,173.7	2,169.4	2,169.2	10.5	18.5	144.63	821.3	1,845.5	2,247.2	2,219.6	81.558		
2,300.0	2,271.8	2,266.0	2,265.8	10.9	18.8	144.85	823.5	1,844.5	2,263.1	2,234.9	80.316		
2,400.0	2,369.9	2,362.0	2,361.7	11.3	19.1	145.06	825.8	1,843.6	2,279.0	2,250.2	79.134		
2,500.0	2,468.0	2,456.5	2,456.3	11.7	19.4	145.27	828.1	1,842.9	2,295.2	2,265.8	78.025		
2,600.0	2,566.0	2,551.0	2,550.8	12.1	19.7	145.47	830.2	1,842.4	2,311.6	2,281.5	76.962		
2,700.0	2,664.1	2,646.3	2,646.0	12.5	20.0	145.68	832.4	1,842.0	2,328.1	2,297.4	75.933		
2,800.0	2,762.2	2,742.0	2,741.6	13.0	20.2	145.89	834.5	1,841.7	2,344.8	2,313.5	74.941		
2,900.0	2,860.3	2,837.6	2,837.3	13.4	20.5	146.10	836.7	1,841.6	2,361.6	2,329.7	73.988		
3,000.0	2,958.3	2,938.2	2,937.8	13.8	20.8	146.31	838.9	1,841.4	2,378.5	2,345.9	73.154		
3,100.0	3,056.4	3,038.8	3,038.4	14.3	21.0	146.53	840.9	1,841.3	2,395.2	2,362.1	72.343		
3,200.0	3,154.5	3,136.4	3,136.0	14.7	21.2	146.72	843.4	1,840.9	2,412.0	2,378.4	71.776		
3,300.0	3,252.6	3,229.7	3,229.1	15.1	21.4	146.86	847.8	1,840.0	2,428.9	2,394.9	71.302		
3,400.0	3,350.6	3,321.4	3,320.5	15.6	21.6	146.91	855.3	1,838.4	2,446.1	2,411.6	70.864		
3,500.0	3,448.7	3,417.1	3,415.5	16.0	21.9	146.87	866.7	1,835.8	2,463.5	2,428.5	70.437		
3,600.0	3,546.8	3,497.0	3,494.5	16.5	22.2	146.79	878.5	1,833.2	2,481.2	2,445.8	70.076		
3,700.0	3,644.9	3,577.1	3,573.3	16.9	22.4	146.67	892.1	1,830.8	2,499.8	2,463.9	69.749		
3,800.0	3,743.0	3,667.0	3,661.5	17.4	22.6	146.48	909.6	1,827.9	2,518.9	2,482.6	69.411		
3,900.0	3,841.0	3,768.0	3,759.7	17.8	23.0	146.19	933.0	1,823.6	2,538.1	2,501.3	69.039		
4,000.0	3,939.1	3,862.5	3,850.8	18.3	23.2	145.86	957.2	1,818.6	2,557.2	2,520.0	68.684		
4,100.0	4,037.2	3,952.6	3,937.3	18.7	23.5	145.50	982.0	1,813.5	2,576.8	2,539.1	68.349		
4,200.0	4,135.3	4,039.0	4,019.7	19.2	23.7	145.13	1,007.5	1,808.3	2,596.6	2,558.5	68.032		
4,300.0	4,233.3	4,124.4	4,100.7	19.6	24.0	144.73	1,034.1	1,803.1	2,617.2	2,578.5	67.728		
4,400.0	4,331.4	4,218.9	4,190.1	20.1	24.2	144.29	1,064.3	1,797.2	2,637.9	2,598.8	67.380		
4,500.0	4,429.5	4,308.5	4,274.5	20.5	24.5	143.85	1,093.6	1,791.5	2,659.1	2,619.4	67.053		
4,600.0	4,527.6	4,454.7	4,412.5	21.0	24.9	143.16	1,141.1	1,781.7	2,680.2	2,639.9	66.418		
4,700.0	4,625.6	4,521.8	4,475.9	21.4	25.1	142.85	1,162.3	1,776.6	2,700.3	2,659.4	66.106		
4,800.0	4,723.7	4,592.6	4,542.8	21.9	25.3	142.54	1,185.1	1,772.3	2,721.8	2,680.5	65.831		
4,900.0	4,821.8	4,709.7	4,653.2	22.3	25.7	142.00	1,223.4	1,764.6	2,743.3	2,701.3	65.335		

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Currier BCU 0993-16-06W - Slot 16-06W
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Reference Site:</b>	Currier 0993-16-07 Pad	<b>MD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Currier BCU 0993-16-06W	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	KLXDirectional-AD
<b>Reference Design:</b>	Design #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Currier 0993-16-07 Pad - (Offset) Buzzard Creek 16-1 - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 200-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
5,000.0	4,919.9	4,819.0	4,756.2	22.8	26.1	141.51	1,259.0	1,756.6	2,764.4	2,721.8	64.860		
5,100.0	5,017.9	4,930.1	4,861.0	23.3	26.4	141.01	1,295.2	1,748.0	2,785.2	2,741.9	64.356		
5,200.0	5,116.0	5,037.9	4,962.5	23.7	26.8	140.53	1,330.1	1,739.0	2,805.6	2,761.7	63.860		
5,300.0	5,214.1	5,137.9	5,057.2	24.2	27.1	140.12	1,361.1	1,731.0	2,825.8	2,781.3	63.411		
5,400.0	5,312.2	5,234.4	5,149.6	24.6	27.5	139.81	1,388.1	1,724.6	2,846.2	2,801.0	63.002		
5,500.0	5,410.6	5,344.8	5,256.3	25.1	27.9	139.75	1,415.8	1,718.5	2,865.0	2,819.2	62.449		
5,600.0	5,509.6	5,483.5	5,392.0	25.7	28.5	139.63	1,444.1	1,712.4	2,880.4	2,833.8	61.774		
5,700.0	5,609.0	5,606.8	5,513.7	26.2	29.0	139.56	1,463.5	1,707.9	2,891.9	2,844.6	61.216		
5,800.0	5,708.7	5,700.9	5,606.8	26.6	29.3	139.51	1,476.3	1,705.1	2,900.4	2,852.7	60.789		
5,900.0	5,808.6	5,784.0	5,689.2	27.0	29.6	139.42	1,487.0	1,703.3	2,906.7	2,858.7	60.443		
6,000.0	5,908.6	5,881.0	5,785.6	27.1	29.9	64.76	1,498.0	1,702.4	2,911.2	2,862.9	60.303		
6,100.0	6,008.6	5,993.9	5,898.0	27.1	30.2	64.57	1,508.4	1,702.0	2,914.9	2,866.4	60.147		
6,200.0	6,108.6	6,150.9	6,054.8	27.2	30.6	64.44	1,516.4	1,703.0	2,917.7	2,869.0	59.856		
6,300.0	6,208.6	6,275.7	6,179.5	27.2	30.9	64.39	1,519.1	1,702.7	2,918.4	2,869.5	59.679		
6,400.0	6,308.6	6,360.1	6,263.9	27.2	31.1	64.35	1,521.1	1,702.7	2,919.4	2,870.4	59.598		
6,500.0	6,408.6	6,472.0	6,375.8	27.3	31.4	64.30	1,523.8	1,702.8	2,920.5	2,871.3	59.344		
6,600.0	6,508.6	6,599.8	6,503.5	27.3	31.8	64.24	1,527.0	1,701.8	2,920.9	2,871.4	58.981		
6,700.0	6,608.6	6,727.6	6,631.2	27.3	32.2	64.16	1,530.3	1,699.3	2,920.3	2,870.5	58.610		
6,800.0	6,708.6	6,830.6	6,734.2	27.4	32.5	64.09	1,532.9	1,696.8	2,919.2	2,869.2	58.389		
6,900.0	6,808.6	6,931.4	6,835.0	27.4	32.8	64.03	1,535.2	1,694.3	2,918.0	2,867.8	58.160		
7,000.0	6,908.6	7,024.9	6,928.4	27.4	33.0	63.98	1,537.0	1,692.3	2,916.9	2,866.5	57.955		
7,100.0	7,008.6	7,118.4	7,021.9	27.5	33.3	63.94	1,538.3	1,690.7	2,916.0	2,865.5	57.755		
7,200.0	7,108.6	7,242.3	7,145.8	27.5	33.5	63.92	1,538.6	1,689.0	2,914.9	2,864.3	57.593		
7,300.0	7,208.6	7,363.6	7,267.0	27.5	33.7	63.94	1,536.7	1,687.3	2,912.9	2,862.1	57.382		
7,400.0	7,308.6	7,471.4	7,374.8	27.6	34.0	63.92	1,536.5	1,684.4	2,910.4	2,859.4	57.090		
7,500.0	7,408.6	7,587.6	7,490.9	27.6	34.4	63.84	1,539.0	1,679.6	2,907.7	2,856.4	56.685		
7,600.0	7,508.6	7,722.7	7,625.8	27.6	34.9	63.75	1,540.8	1,673.1	2,903.9	2,852.1	56.018		
7,700.0	7,608.6	7,823.6	7,726.5	27.7	35.2	63.70	1,540.9	1,667.9	2,899.4	2,847.3	55.649		
7,800.0	7,708.6	7,908.2	7,811.1	27.7	35.3	63.66	1,541.4	1,663.8	2,895.2	2,843.0	55.435		
7,900.0	7,808.6	7,988.0	7,890.8	27.7	35.5	63.61	1,542.2	1,660.2	2,891.7	2,839.3	55.244		
8,000.0	7,908.6	8,078.0	7,980.7	27.8	35.7	63.56	1,543.3	1,656.6	2,888.6	2,836.1	55.039		
8,100.0	8,008.6	8,163.1	8,065.8	27.8	35.9	63.52	1,544.3	1,653.6	2,886.0	2,833.4	54.856		
8,200.0	8,108.6	8,254.5	8,157.1	27.9	36.1	63.47	1,545.3	1,651.0	2,884.0	2,831.1	54.593		
8,300.0	8,208.6	8,350.7	8,253.2	27.9	36.5	63.42	1,546.9	1,648.1	2,882.0	2,828.9	54.264		
8,400.0	8,308.6	8,446.9	8,349.4	27.9	36.8	63.36	1,549.0	1,645.2	2,880.2	2,826.8	53.942		
8,500.0	8,408.6	8,548.0	8,450.4	28.0	37.2	63.28	1,551.6	1,641.9	2,878.6	2,824.9	53.611		
8,592.7	8,501.3	8,590.0	8,492.4	28.0	37.3	63.25	1,552.9	1,640.6	2,877.5	2,823.8	53.579	SF	
8,600.0	8,508.6	8,590.0	8,492.4	28.0	37.3	63.25	1,552.9	1,640.6	2,877.5	2,823.8	53.584		
8,700.0	8,608.6	8,590.0	8,492.4	28.0	37.3	63.25	1,552.9	1,640.6	2,879.5	2,825.9	53.707		
8,757.4	8,666.0	8,590.0	8,492.4	28.1	37.3	63.25	1,552.9	1,640.6	2,882.2	2,828.6	53.834		

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Currier BCU 0993-16-06W - Slot 16-06W
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Reference Site:</b>	Currier 0993-16-07 Pad	<b>MD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Currier BCU 0993-16-06W	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	KLXDirectional-AD
<b>Reference Design:</b>	Design #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design											Offset Site Error:	0.0 usft
Currier 0993-16-07 Pad - (Offset) Buzzard Creek 16-10 - Wellbore #1 - Wellbore #1											Offset Well Error:	0.0 usft
Survey Program: 157-OWSG (REV5) MWD HDGM Standard												
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance		Separation Factor	Warning
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)				Between Centres (usft)	Between Ellipses (usft)		
0.0	0.0	0.0	0.0	0.0	0.0	134.30	-1,894.7	1,941.8	2,716.6			
100.0	100.0	0.0	0.0	0.8	0.0	134.30	-1,894.7	1,941.8	2,713.3	2,712.5	3,422.821	
156.6	156.6	16.9	16.9	1.1	0.1	134.30	-1,894.7	1,941.8	2,713.0	2,711.8	2,173.925	
200.0	200.0	61.2	61.2	1.4	0.4	134.30	-1,894.8	1,941.7	2,713.0	2,711.2	1,516.235	
300.0	300.0	163.0	163.0	1.9	1.0	134.31	-1,895.1	1,941.3	2,712.9	2,710.1	947.119	
400.0	400.0	275.1	275.1	2.2	1.6	134.32	-1,895.3	1,940.8	2,712.8	2,709.0	707.640	
500.0	500.0	409.4	409.3	2.4	2.2	-151.15	-1,894.9	1,938.5	2,711.5	2,707.1	604.009	
521.8	521.8	433.1	433.0	2.5	2.3	-151.15	-1,894.9	1,938.0	2,711.5	2,706.8	577.953	
600.0	599.9	528.4	528.4	3.1	2.6	-151.14	-1,894.7	1,935.3	2,712.2	2,706.7	493.342	
700.0	699.7	664.4	664.2	4.1	3.1	-151.17	-1,892.9	1,930.7	2,714.6	2,707.8	401.081	
800.0	799.2	786.4	786.1	4.9	3.5	-151.22	-1,890.3	1,926.0	2,719.3	2,711.4	344.761	
900.0	898.3	917.0	916.5	5.6	3.9	-151.31	-1,886.5	1,920.3	2,726.0	2,717.0	303.614	
1,000.0	996.8	1,075.6	1,074.7	6.3	4.6	-151.44	-1,881.3	1,910.3	2,734.3	2,724.1	267.606	
1,100.0	1,094.9	1,272.4	1,270.5	6.5	5.4	-151.66	-1,873.2	1,891.9	2,742.1	2,730.8	242.970	
1,200.0	1,193.0	1,416.7	1,413.6	6.8	6.1	-151.81	-1,865.3	1,874.9	2,747.1	2,734.9	225.303	
1,300.0	1,291.1	1,524.5	1,520.3	7.1	6.6	-151.93	-1,858.2	1,861.6	2,750.8	2,737.8	211.880	
1,400.0	1,389.1	1,609.9	1,604.9	7.4	6.9	-152.02	-1,853.1	1,851.0	2,755.0	2,741.3	201.254	
1,500.0	1,487.2	1,767.4	1,760.7	7.8	7.6	-152.16	-1,843.7	1,829.9	2,758.6	2,743.9	188.298	
1,600.0	1,585.3	2,015.0	2,004.1	8.1	8.7	-152.40	-1,821.8	1,790.4	2,758.1	2,742.0	171.337	
1,700.0	1,683.4	2,265.6	2,247.6	8.5	10.0	-152.62	-1,790.8	1,739.9	2,751.9	2,734.2	155.623	
1,800.0	1,781.4	2,479.1	2,452.4	8.9	11.0	-152.79	-1,758.9	1,689.2	2,741.4	2,722.3	143.940	
1,900.0	1,879.5	2,709.7	2,670.4	9.3	12.3	-152.94	-1,718.3	1,626.0	2,726.0	2,705.5	132.651	
2,000.0	1,977.6	2,942.2	2,886.1	9.7	13.5	-153.01	-1,672.7	1,551.9	2,705.7	2,683.7	122.674	
2,100.0	2,075.7	3,060.2	2,994.0	10.1	14.1	-153.01	-1,648.6	1,511.0	2,682.9	2,659.9	116.388	
2,200.0	2,173.7	3,164.6	3,089.5	10.5	14.6	-153.00	-1,627.5	1,474.2	2,659.9	2,635.9	110.832	
2,300.0	2,271.8	3,271.5	3,187.0	10.9	15.1	-152.99	-1,605.5	1,436.3	2,636.5	2,611.5	105.610	
2,400.0	2,369.9	3,360.0	3,267.7	11.3	15.5	-152.99	-1,587.4	1,404.9	2,613.0	2,587.1	100.995	
2,500.0	2,468.0	3,447.5	3,347.6	11.7	16.0	-152.96	-1,570.2	1,373.6	2,589.9	2,563.1	96.699	
2,600.0	2,566.0	3,546.1	3,437.6	12.1	16.5	-152.91	-1,551.5	1,337.9	2,567.0	2,539.2	92.546	
2,700.0	2,664.1	3,658.9	3,540.3	12.5	17.0	-152.84	-1,530.6	1,296.4	2,543.8	2,515.0	88.493	
2,800.0	2,762.2	3,769.6	3,640.9	13.0	17.6	-152.77	-1,509.5	1,255.0	2,519.9	2,490.1	84.691	
2,900.0	2,860.3	3,865.1	3,727.5	13.4	18.1	-152.70	-1,491.3	1,219.3	2,495.9	2,465.2	81.259	
3,000.0	2,958.3	3,965.1	3,818.1	13.8	18.6	-152.61	-1,472.8	1,181.3	2,471.9	2,440.2	77.986	
3,100.0	3,056.4	4,056.5	3,901.0	14.3	19.1	-152.52	-1,455.9	1,146.5	2,447.8	2,415.2	74.964	
3,200.0	3,154.5	4,149.4	3,985.3	14.7	19.5	-152.43	-1,439.2	1,111.1	2,424.1	2,390.5	72.109	
3,300.0	3,252.6	4,252.3	4,078.6	15.1	20.1	-152.32	-1,420.7	1,071.8	2,400.3	2,365.7	69.339	
3,400.0	3,350.6	4,351.6	4,168.4	15.6	20.6	-152.20	-1,402.9	1,033.6	2,376.3	2,340.7	66.693	
3,500.0	3,448.7	4,434.3	4,243.3	16.0	21.2	-152.10	-1,388.4	1,001.7	2,352.5	2,316.0	64.341	
3,600.0	3,546.8	4,501.5	4,304.4	16.5	21.7	-152.00	-1,377.4	975.8	2,329.7	2,292.2	62.196	
3,700.0	3,644.9	4,574.0	4,370.7	16.9	22.2	-151.88	-1,366.6	948.6	2,308.5	2,270.1	60.158	
3,800.0	3,743.0	4,638.7	4,430.2	17.4	22.7	-151.78	-1,357.6	924.9	2,288.5	2,249.3	58.293	
3,900.0	3,841.0	4,730.5	4,514.7	17.8	23.3	-151.64	-1,344.4	891.7	2,269.0	2,228.8	56.400	
4,000.0	3,939.1	4,827.8	4,604.8	18.3	24.0	-151.54	-1,329.3	857.9	2,249.7	2,208.5	54.582	
4,100.0	4,037.2	4,923.2	4,693.1	18.7	24.7	-151.47	-1,313.6	825.6	2,230.4	2,188.2	52.855	
4,200.0	4,135.3	5,016.7	4,779.9	19.2	25.3	-151.43	-1,297.6	794.7	2,211.3	2,168.1	51.223	
4,300.0	4,233.3	5,117.7	4,873.7	19.6	26.0	-151.40	-1,279.9	761.8	2,192.2	2,148.1	49.636	
4,400.0	4,331.4	5,199.6	4,949.9	20.1	26.5	-151.37	-1,265.8	735.0	2,173.4	2,128.3	48.190	
4,500.0	4,429.5	5,281.2	5,026.1	20.5	27.1	-151.37	-1,251.7	709.4	2,155.4	2,109.3	46.825	
4,600.0	4,527.6	5,370.6	5,109.8	21.0	27.7	-151.38	-1,236.0	682.3	2,138.0	2,091.0	45.504	
4,700.0	4,625.6	5,468.7	5,201.8	21.4	28.3	-151.41	-1,218.4	653.2	2,120.8	2,072.8	44.213	
4,800.0	4,723.7	5,564.9	5,292.0	21.9	28.9	-151.46	-1,200.9	624.9	2,103.6	2,054.7	42.979	

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Currier BCU 0993-16-06W - Slot 16-06W
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Reference Site:</b>	Currier 0993-16-07 Pad	<b>MD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Currier BCU 0993-16-06W	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	KLXDirectional-AD
<b>Reference Design:</b>	Design #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Currier 0993-16-07 Pad - (Offset) Buzzard Creek 16-10 - Wellbore #1 - Wellbore #1												Offset Well Error:	0.0 usft
Survey Program: 157-OWSG (REV5) MWD HDGM Standard													
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance		Separation Factor	Warning	
				Reference (usft)	Offset (usft)				Between Centres (usft)	Between Ellipses (usft)			
4,900.0	4,821.8	5,660.6	5,381.9	22.3	29.5	-151.51	-1,183.5	596.8	2,086.6	2,036.7	41.797		
5,000.0	4,919.9	5,756.6	5,471.9	22.8	30.1	-151.52	-1,166.9	568.0	2,069.7	2,018.8	40.661		
5,100.0	5,017.9	5,829.8	5,540.7	23.3	30.5	-151.53	-1,154.6	546.1	2,053.3	2,001.5	39.635		
5,200.0	5,116.0	5,878.0	5,586.2	23.7	30.8	-151.53	-1,147.2	532.1	2,038.6	1,986.0	38.753		
5,300.0	5,214.1	5,949.0	5,653.7	24.2	31.2	-151.54	-1,136.8	512.6	2,025.7	1,972.2	37.861		
5,400.0	5,312.2	6,012.5	5,714.6	24.6	31.6	-151.58	-1,127.7	496.9	2,014.8	1,960.4	37.063		
5,500.0	5,410.6	6,091.0	5,790.1	25.1	32.0	-151.50	-1,117.5	478.3	2,004.0	1,948.6	36.209		
5,600.0	5,509.6	6,156.2	5,853.1	25.7	32.3	-151.36	-1,109.7	463.4	1,991.4	1,935.2	35.454		
5,700.0	5,609.0	6,218.9	5,913.9	26.2	32.5	-151.19	-1,102.7	449.6	1,977.1	1,920.2	34.733		
5,800.0	5,708.7	6,277.0	5,970.5	26.6	32.8	-150.98	-1,096.8	438.0	1,961.9	1,904.3	34.068		
5,900.0	5,808.6	6,337.4	6,029.7	27.0	33.0	-150.75	-1,091.1	427.2	1,945.8	1,887.6	33.434		
6,000.0	5,908.6	6,399.5	6,090.7	27.1	33.2	134.93	-1,085.3	417.5	1,928.6	1,870.1	32.947		
6,100.0	6,008.6	6,464.0	6,154.3	27.1	33.4	135.00	-1,080.0	408.6	1,912.9	1,854.1	32.533		
6,200.0	6,108.6	6,516.4	6,206.2	27.2	33.5	135.06	-1,076.3	402.3	1,899.3	1,840.4	32.224		
6,300.0	6,208.6	6,576.3	6,265.7	27.2	33.6	135.12	-1,073.0	395.9	1,887.9	1,828.8	31.943		
6,400.0	6,308.6	6,647.0	6,336.0	27.2	33.7	135.19	-1,069.7	389.6	1,878.3	1,819.0	31.668		
6,500.0	6,408.6	6,703.5	6,392.3	27.3	33.8	135.23	-1,067.7	385.6	1,870.6	1,811.3	31.511		
6,600.0	6,508.6	6,762.7	6,451.5	27.3	33.9	135.27	-1,066.1	382.5	1,865.1	1,805.7	31.403		
6,700.0	6,608.6	6,834.0	6,522.7	27.3	34.0	135.31	-1,065.7	379.9	1,861.8	1,802.4	31.309		
6,800.0	6,708.6	6,902.2	6,590.9	27.4	34.0	135.36	-1,066.0	378.1	1,860.2	1,800.8	31.303		
6,900.0	6,808.6	6,989.6	6,678.2	27.4	34.2	135.41	-1,066.5	376.5	1,859.3	1,799.8	31.230		
7,000.0	6,908.6	7,089.5	6,778.1	27.4	34.3	135.46	-1,067.4	375.1	1,858.9	1,799.2	31.115		
7,100.0	7,008.6	7,196.7	6,885.3	27.5	34.6	135.54	-1,068.8	372.6	1,858.2	1,798.2	30.966		
7,200.0	7,108.6	7,298.1	6,986.6	27.5	34.8	135.65	-1,070.6	369.3	1,857.2	1,797.0	30.846		
7,300.0	7,208.6	7,390.4	7,078.8	27.5	35.0	135.75	-1,072.3	366.5	1,856.5	1,796.1	30.776		
7,400.0	7,308.6	7,489.2	7,177.6	27.6	35.3	135.85	-1,074.2	364.0	1,856.0	1,795.5	30.664		
7,500.0	7,408.6	7,600.6	7,289.0	27.6	35.7	135.95	-1,075.7	361.1	1,855.3	1,794.3	30.456		
7,600.0	7,508.6	7,712.0	7,400.3	27.6	36.1	136.03	-1,076.6	358.0	1,853.9	1,792.6	30.242		
7,700.0	7,608.6	7,816.3	7,504.6	27.7	36.5	136.11	-1,076.8	354.9	1,851.9	1,790.2	30.018		
7,800.0	7,708.6	7,914.2	7,602.4	27.7	36.9	136.17	-1,076.9	352.1	1,850.1	1,788.0	29.795		
7,900.0	7,808.6	8,012.0	7,700.2	27.7	37.3	136.23	-1,077.0	349.5	1,848.3	1,785.8	29.577		
8,000.0	7,908.6	8,110.9	7,799.0	27.8	37.8	136.28	-1,077.0	347.2	1,846.6	1,783.6	29.302		
8,100.0	8,008.6	8,212.0	7,900.2	27.8	38.5	136.33	-1,076.8	344.9	1,844.9	1,781.1	28.893		
8,200.0	8,108.6	8,313.2	8,001.4	27.9	39.3	136.37	-1,076.4	342.8	1,843.2	1,778.6	28.515		
8,300.0	8,208.6	8,414.4	8,102.5	27.9	40.0	136.40	-1,075.7	340.9	1,841.4	1,776.0	28.155		
8,400.0	8,308.6	8,515.6	8,203.7	27.9	40.8	136.42	-1,074.7	339.1	1,839.5	1,773.3	27.785		
8,500.0	8,408.6	8,616.8	8,304.9	28.0	41.6	136.43	-1,073.5	337.5	1,837.6	1,770.5	27.404		
8,600.0	8,508.6	8,717.4	8,405.5	28.0	42.1	136.43	-1,072.1	336.1	1,835.6	1,767.9	27.132 SF		
8,662.4	8,571.0	8,743.0	8,431.1	28.0	42.1	136.43	-1,071.8	335.7	1,834.7	1,767.2	27.168 CC, ES		
8,700.0	8,608.6	8,743.0	8,431.1	28.0	42.1	136.43	-1,071.8	335.7	1,835.1	1,767.8	27.266		
8,757.4	8,666.0	8,743.0	8,431.1	28.1	42.1	136.43	-1,071.8	335.7	1,837.2	1,770.2	27.457		

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Currier BCU 0993-16-06W - Slot 16-06W
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Reference Site:</b>	Currier 0993-16-07 Pad	<b>MD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Currier BCU 0993-16-06W	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	KLXDirectional-AD
<b>Reference Design:</b>	Design #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design											Currier 0993-16-07 Pad - (Offset) Buzzard Creek 16-12 - Wellbore #1 - Wellbore #1	Offset Site Error:	0.0 usft
Survey Program: 920-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)	+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	-107.73	-776.5	-2,429.1	2,559.1				
100.0	100.0	0.0	0.0	0.8	0.0	-107.73	-776.5	-2,429.1	2,552.7	2,551.9	3,199.563		
200.0	200.0	0.0	0.0	1.4	0.0	-107.73	-776.5	-2,429.1	2,550.2	2,548.8	1,802.727		
213.0	213.0	0.0	0.0	1.5	0.0	-107.73	-776.5	-2,429.1	2,550.2	2,548.7	1,730.674		
300.0	300.0	0.0	0.0	1.9	0.0	-107.73	-776.5	-2,429.1	2,551.7	2,549.8	1,365.742		
341.1	341.1	100.2	100.2	2.0	2.7	-107.73	-776.8	-2,429.6	2,550.9	2,546.1	537.680		
400.0	400.0	146.3	146.3	2.2	4.0	-107.73	-777.0	-2,430.1	2,551.7	2,545.5	410.497		
500.0	500.0	224.5	224.5	2.4	6.1	-33.23	-777.7	-2,431.6	2,553.5	2,545.0	300.174		
600.0	599.9	302.7	302.6	3.1	8.3	-33.26	-778.7	-2,433.6	2,553.7	2,542.5	227.570		
700.0	699.7	380.8	380.7	4.1	10.4	-33.35	-779.9	-2,436.3	2,551.9	2,537.8	180.441		
800.0	799.2	458.8	458.6	4.9	12.5	-33.50	-781.5	-2,439.6	2,548.0	2,531.1	150.326		
900.0	898.3	536.7	536.4	5.6	14.6	-33.71	-783.3	-2,443.4	2,542.1	2,522.4	129.098		
1,000.0	996.8	614.3	613.9	6.3	16.7	-33.98	-785.4	-2,447.8	2,534.2	2,511.8	113.188		
1,100.0	1,094.9	691.8	691.1	6.5	18.9	-34.21	-787.8	-2,452.9	2,525.1	2,500.4	102.090		
1,200.0	1,193.0	769.4	768.5	6.8	21.0	-34.43	-790.4	-2,458.5	2,516.9	2,489.8	92.767		
1,300.0	1,291.1	820.0	818.4	7.1	25.1	-34.84	-796.4	-2,471.1	2,510.9	2,479.4	79.649		
1,400.0	1,389.1	925.7	924.1	7.4	25.1	-34.86	-796.7	-2,471.7	2,503.1	2,471.2	78.509		
1,500.0	1,487.2	1,018.5	1,016.4	7.8	25.6	-35.17	-802.9	-2,479.5	2,497.2	2,464.6	76.671		
1,600.0	1,585.3	1,123.2	1,120.2	8.1	25.9	-35.61	-813.4	-2,487.0	2,491.5	2,458.4	75.386		
1,700.0	1,683.4	1,221.6	1,217.9	8.5	25.9	-36.02	-823.0	-2,494.1	2,485.7	2,452.3	74.320		
1,800.0	1,781.4	1,329.6	1,325.2	8.9	25.9	-36.47	-833.5	-2,501.7	2,479.9	2,446.0	73.237		
1,900.0	1,879.5	1,438.2	1,433.0	9.3	26.0	-36.93	-843.9	-2,508.7	2,473.7	2,439.4	72.146		
2,000.0	1,977.6	1,558.1	1,552.2	9.7	26.0	-37.45	-855.5	-2,515.9	2,467.3	2,432.5	71.045		
2,100.0	2,075.7	1,682.3	1,675.5	10.1	26.1	-38.01	-868.0	-2,521.6	2,459.8	2,424.6	69.946		
2,200.0	2,173.7	1,796.4	1,788.9	10.5	26.1	-38.57	-880.4	-2,525.4	2,451.7	2,416.1	68.861		
2,300.0	2,271.8	1,954.1	1,945.5	10.9	26.3	-39.39	-898.6	-2,527.9	2,442.6	2,406.5	67.780		
2,400.0	2,369.9	2,073.7	2,064.3	11.3	26.4	-40.05	-912.8	-2,527.4	2,431.9	2,395.4	66.708		
2,500.0	2,468.0	2,220.1	2,209.7	11.7	26.6	-40.89	-929.9	-2,524.0	2,419.7	2,382.9	65.689		
2,600.0	2,566.0	2,340.0	2,328.6	12.1	26.7	-41.60	-943.9	-2,519.3	2,406.4	2,369.2	64.653		
2,700.0	2,664.1	2,470.8	2,458.5	12.5	26.8	-42.38	-957.9	-2,512.8	2,391.9	2,354.3	63.653		
2,800.0	2,762.2	2,591.0	2,578.0	13.0	26.9	-43.09	-969.3	-2,506.1	2,376.7	2,338.8	62.651		
2,900.0	2,860.3	2,719.1	2,705.4	13.4	27.1	-43.84	-980.5	-2,497.7	2,360.6	2,322.4	61.691		
3,000.0	2,958.3	2,849.6	2,835.0	13.8	27.2	-44.62	-990.9	-2,487.6	2,343.4	2,304.8	60.756		
3,100.0	3,056.4	2,957.3	2,942.1	14.3	27.3	-45.27	-998.7	-2,478.3	2,325.3	2,286.4	59.747		
3,200.0	3,154.5	3,065.5	3,049.6	14.7	27.4	-45.92	-1,006.1	-2,468.7	2,307.1	2,267.8	58.763		
3,300.0	3,252.6	3,162.2	3,145.6	15.1	27.5	-46.52	-1,012.8	-2,459.7	2,288.8	2,249.2	57.749		
3,400.0	3,350.6	3,261.6	3,244.4	15.6	27.6	-47.14	-1,019.1	-2,450.7	2,270.7	2,230.7	56.768		
3,500.0	3,448.7	3,376.6	3,358.7	16.0	27.7	-47.84	-1,025.4	-2,440.2	2,252.3	2,212.0	55.870		
3,600.0	3,546.8	3,482.2	3,463.8	16.5	27.8	-48.47	-1,029.9	-2,430.3	2,233.3	2,192.7	54.925		
3,700.0	3,644.9	3,569.9	3,551.0	16.9	27.9	-48.99	-1,033.5	-2,422.2	2,214.7	2,173.7	53.922		
3,800.0	3,743.0	3,678.9	3,659.5	17.4	28.0	-49.66	-1,037.8	-2,412.3	2,196.3	2,154.9	53.032		
3,900.0	3,841.0	3,778.0	3,758.1	17.8	28.2	-50.25	-1,041.0	-2,403.0	2,177.6	2,135.8	52.118		
4,000.0	3,939.1	3,870.1	3,849.8	18.3	28.3	-50.82	-1,043.8	-2,394.6	2,159.2	2,117.0	51.203		
4,100.0	4,037.2	3,964.6	3,943.9	18.7	28.4	-51.39	-1,046.5	-2,386.3	2,141.1	2,098.6	50.320		
4,200.0	4,135.3	4,080.5	4,059.3	19.2	28.5	-52.10	-1,049.2	-2,375.8	2,122.8	2,080.0	49.548		
4,300.0	4,233.3	4,180.6	4,159.0	19.6	28.6	-52.71	-1,051.0	-2,366.6	2,104.3	2,061.1	48.727		
4,400.0	4,331.4	4,285.1	4,263.0	20.1	28.7	-53.36	-1,052.4	-2,356.5	2,085.5	2,042.0	47.930		
4,500.0	4,429.5	4,374.8	4,352.2	20.5	28.8	-53.93	-1,053.9	-2,348.1	2,067.2	2,023.3	47.099		
4,600.0	4,527.6	4,492.2	4,469.0	21.0	28.9	-54.68	-1,055.2	-2,336.5	2,048.4	2,004.3	46.386		
4,700.0	4,625.6	4,589.0	4,565.3	21.4	29.0	-55.31	-1,055.7	-2,326.8	2,029.5	1,985.0	45.599		
4,800.0	4,723.7	4,685.8	4,661.6	21.9	29.0	-55.94	-1,056.0	-2,317.2	2,010.8	1,965.9	44.829		

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Currier BCU 0993-16-06W - Slot 16-06W
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Reference Site:</b>	Currier 0993-16-07 Pad	<b>MD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Currier BCU 0993-16-06W	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	KLXDirectional-AD
<b>Reference Design:</b>	Design #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Currier 0993-16-07 Pad - (Offset) Buzzard Creek 16-12 - Wellbore #1 - Wellbore #1											Offset Site Error:	0.0 usft
Survey Program: 920-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		Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance		Separation Factor	Warning
				Reference (usft)	Offset (usft)				Between Centres (usft)	Between Ellipses (usft)		
4,900.0	4,821.8	4,777.8	4,753.3	22.3	29.1	-56.53	-1,056.0	-2,308.4	1,992.4	1,947.1	44.058	
5,000.0	4,919.9	4,873.3	4,848.4	22.8	29.2	-57.15	-1,055.9	-2,299.5	1,974.3	1,928.8	43.321	
5,100.0	5,017.9	4,973.6	4,948.2	23.3	29.3	-57.84	-1,056.1	-2,289.7	1,956.5	1,910.5	42.615	
5,200.0	5,116.0	5,064.0	5,038.1	23.7	29.4	-58.46	-1,056.3	-2,280.9	1,938.8	1,892.5	41.887	
5,300.0	5,214.1	5,155.8	5,129.5	24.2	29.5	-59.10	-1,056.5	-2,272.4	1,921.7	1,875.0	41.191	
5,400.0	5,312.2	5,242.6	5,216.0	24.6	29.6	-59.68	-1,056.5	-2,264.7	1,905.1	1,858.1	40.504	
5,500.0	5,410.6	5,341.3	5,314.3	25.1	29.7	-60.06	-1,056.8	-2,256.3	1,890.1	1,842.6	39.859	
5,600.0	5,509.6	5,438.5	5,411.1	25.7	29.9	-60.37	-1,056.8	-2,247.9	1,876.7	1,829.0	39.306	
5,700.0	5,609.0	5,533.5	5,505.8	26.2	30.0	-60.64	-1,057.2	-2,239.5	1,865.4	1,817.4	38.825	
5,800.0	5,708.7	5,614.9	5,587.0	26.6	30.1	-60.78	-1,057.3	-2,233.1	1,856.3	1,808.0	38.385	
5,900.0	5,808.6	5,704.8	5,676.7	27.0	30.2	-60.89	-1,057.5	-2,227.2	1,850.1	1,801.5	38.065	
6,000.0	5,908.6	5,797.4	5,769.0	27.1	30.3	-135.49	-1,057.6	-2,221.4	1,845.4	1,796.7	37.894	
6,100.0	6,008.6	5,889.4	5,861.0	27.1	30.4	-135.61	-1,057.7	-2,216.4	1,841.7	1,792.9	37.751	
6,200.0	6,108.6	5,982.3	5,953.7	27.2	30.6	-135.70	-1,057.4	-2,212.2	1,838.4	1,789.5	37.601	
6,300.0	6,208.6	6,073.8	6,045.2	27.2	30.7	-135.77	-1,057.1	-2,208.7	1,835.4	1,786.4	37.453	
6,400.0	6,308.6	6,169.2	6,140.5	27.2	30.8	-135.83	-1,056.7	-2,205.6	1,832.9	1,783.7	37.318	
6,500.0	6,408.6	6,269.0	6,240.3	27.3	30.9	-135.88	-1,056.2	-2,202.6	1,830.5	1,781.3	37.206	
6,600.0	6,508.6	6,366.5	6,337.7	27.3	31.0	-135.94	-1,055.9	-2,199.7	1,828.1	1,778.8	37.087	
6,700.0	6,608.6	6,459.3	6,430.5	27.3	31.2	-136.00	-1,055.7	-2,196.9	1,825.9	1,776.5	36.965	
6,800.0	6,708.6	6,550.7	6,521.8	27.4	31.3	-136.05	-1,055.7	-2,194.9	1,824.3	1,774.8	36.856	
6,900.0	6,808.6	6,652.4	6,623.6	27.4	31.4	-136.09	-1,055.5	-2,192.9	1,822.8	1,773.2	36.697	
7,000.0	6,908.6	6,756.5	6,727.6	27.4	31.7	-136.12	-1,055.0	-2,191.0	1,821.2	1,771.3	36.500	
7,100.0	7,008.6	6,860.5	6,831.6	27.5	31.9	-136.14	-1,054.1	-2,189.1	1,819.3	1,769.2	36.300	
7,200.0	7,108.6	6,963.0	6,934.1	27.5	32.3	-136.16	-1,052.9	-2,187.3	1,817.2	1,766.7	35.927	
7,300.0	7,208.6	7,060.5	7,031.5	27.5	33.4	-136.17	-1,051.8	-2,185.6	1,815.2	1,763.4	35.033	
7,400.0	7,308.6	7,157.9	7,129.0	27.6	34.5	-136.19	-1,050.7	-2,184.0	1,813.3	1,760.3	34.187	
7,500.0	7,408.6	7,255.4	7,226.4	27.6	35.6	-136.20	-1,049.8	-2,182.5	1,811.5	1,757.3	33.385	
7,600.0	7,508.6	7,352.9	7,323.9	27.6	36.6	-136.22	-1,049.0	-2,181.0	1,809.9	1,754.4	32.622	
7,700.0	7,608.6	7,450.4	7,421.3	27.7	37.7	-136.23	-1,048.3	-2,179.6	1,808.4	1,751.7	31.897	
7,800.0	7,708.6	7,547.8	7,518.8	27.7	38.8	-136.25	-1,047.7	-2,178.3	1,807.1	1,749.1	31.206	
7,900.0	7,808.6	7,645.5	7,616.4	27.7	39.9	-136.27	-1,047.3	-2,177.1	1,805.8	1,746.7	30.556	
8,000.0	7,908.6	7,744.9	7,715.9	27.8	40.8	-136.28	-1,046.8	-2,175.9	1,804.7	1,744.6	30.047	
8,100.0	8,008.6	7,844.4	7,815.4	27.8	41.6	-136.29	-1,046.2	-2,175.0	1,803.6	1,742.6	29.555	
8,200.0	8,108.6	7,943.9	7,914.8	27.9	42.4	-136.29	-1,045.4	-2,174.3	1,802.5	1,740.5	29.079	
8,300.0	8,208.6	8,043.4	8,014.3	27.9	43.3	-136.28	-1,044.5	-2,173.7	1,801.5	1,738.5	28.619	
8,400.0	8,308.6	8,142.9	8,113.8	27.9	44.1	-136.27	-1,043.4	-2,173.4	1,800.4	1,736.5	28.173	
8,500.0	8,408.6	8,242.3	8,213.3	28.0	45.0	-136.25	-1,042.2	-2,173.2	1,799.4	1,734.6	27.741	
8,600.0	8,508.6	8,325.0	8,295.9	28.0	45.1	-136.22	-1,041.1	-2,173.2	1,798.6	1,733.5	27.632	CC
8,604.4	8,513.1	8,325.0	8,295.9	28.0	45.1	-136.22	-1,041.1	-2,173.2	1,798.6	1,733.5	27.628	ES
8,700.0	8,608.6	8,325.0	8,295.9	28.0	45.1	-136.22	-1,041.1	-2,173.2	1,801.3	1,736.1	27.615	SF
8,757.4	8,666.0	8,325.0	8,295.9	28.1	45.1	-136.22	-1,041.1	-2,173.2	1,805.4	1,740.2	27.677	

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Currier BCU 0993-16-06W - Slot 16-06W
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Reference Site:</b>	Currier 0993-16-07 Pad	<b>MD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Currier BCU 0993-16-06W	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	KLXDirectional-AD
<b>Reference Design:</b>	Design #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design											Offset Site Error:	0.0 usft
Currier 0993-16-07 Pad - (Offset) Buzzard Creek 16-8 - Wellbore #1 - Wellbore #1											Offset Well Error:	0.0 usft
Survey Program: 184-OWSG (REV5) MWD HDGM Standard												
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	67.22	782.3	1,862.3	2,020.0			
100.0	100.0	94.3	94.3	0.8	0.6	67.22	782.2	1,862.3	2,019.9	2,018.5	1,414.374	
200.0	200.0	197.0	197.0	1.4	1.3	67.22	782.0	1,862.1	2,019.7	2,016.9	732.841	
300.0	300.0	294.4	294.4	1.9	2.1	67.23	781.6	1,862.0	2,019.4	2,015.5	510.547	
400.0	400.0	398.2	398.2	2.2	2.7	67.25	781.0	1,862.1	2,019.2	2,014.3	411.607	
484.7	484.7	489.9	489.9	2.4	3.1	141.76	780.7	1,861.7	2,019.2	2,013.7	371.137	
500.0	500.0	505.4	505.4	2.4	3.2	141.76	780.7	1,861.6	2,018.9	2,013.4	364.923	CC, ES
600.0	599.9	608.3	608.3	3.1	3.6	141.80	780.1	1,860.9	2,020.6	2,014.0	309.375	
700.0	699.7	704.9	704.9	4.1	4.0	141.88	779.1	1,860.5	2,025.0	2,017.3	263.856	
800.0	799.2	798.7	798.7	4.9	4.4	141.97	778.5	1,860.1	2,032.4	2,023.7	233.585	
900.0	898.3	896.4	896.3	5.6	4.8	142.07	778.2	1,859.9	2,042.7	2,033.1	210.978	
1,000.0	996.8	993.8	993.7	6.3	5.2	142.19	778.2	1,859.5	2,055.9	2,045.3	193.590	
1,100.0	1,094.9	1,092.5	1,092.5	6.5	5.5	142.48	778.3	1,859.2	2,071.1	2,060.0	186.111	
1,200.0	1,193.0	1,203.4	1,203.4	6.8	5.7	142.85	777.8	1,858.7	2,086.2	2,074.6	179.401	
1,300.0	1,291.1	1,331.3	1,331.2	7.1	5.9	143.30	775.6	1,857.2	2,100.2	2,088.0	172.267	
1,400.0	1,389.1	1,463.1	1,463.0	7.4	6.2	143.83	770.6	1,854.8	2,113.0	2,100.2	165.199	
1,500.0	1,487.2	1,588.4	1,588.0	7.8	6.5	144.36	763.8	1,851.1	2,124.3	2,110.9	158.428	
1,600.0	1,585.3	1,697.0	1,696.3	8.1	6.9	144.86	756.1	1,847.9	2,135.1	2,121.1	152.393	
1,700.0	1,683.4	1,830.7	1,829.3	8.5	7.3	145.51	744.1	1,842.8	2,144.7	2,130.0	145.765	
1,800.0	1,781.4	1,953.6	1,951.4	8.9	7.7	146.14	731.6	1,837.0	2,153.2	2,137.7	139.741	
1,900.0	1,879.5	2,063.6	2,060.4	9.3	8.1	146.75	718.1	1,831.7	2,161.1	2,145.0	134.428	
2,000.0	1,977.6	2,181.7	2,177.3	9.7	8.5	147.45	701.6	1,825.4	2,168.2	2,151.4	129.185	
2,100.0	2,075.7	2,292.1	2,286.3	10.1	8.9	148.10	685.7	1,819.0	2,175.0	2,157.5	124.379	
2,200.0	2,173.7	2,384.3	2,377.2	10.5	9.3	148.68	671.2	1,813.7	2,181.7	2,163.6	120.236	
2,300.0	2,271.8	2,469.9	2,461.6	10.9	9.6	149.21	657.6	1,809.2	2,189.1	2,170.3	116.565	
2,400.0	2,369.9	2,563.8	2,554.2	11.3	10.0	149.81	642.5	1,804.7	2,197.2	2,177.7	113.031	
2,500.0	2,468.0	2,656.5	2,645.6	11.7	10.3	150.38	627.8	1,800.2	2,205.5	2,185.4	109.746	
2,600.0	2,566.0	2,750.2	2,738.0	12.1	10.7	150.96	613.0	1,796.0	2,214.4	2,193.6	106.659	
2,700.0	2,664.1	2,840.9	2,827.6	12.5	11.0	151.50	599.3	1,791.8	2,223.6	2,202.2	103.820	
2,800.0	2,762.2	2,941.6	2,926.9	13.0	11.4	152.11	583.5	1,787.5	2,233.2	2,211.1	101.017	
2,900.0	2,860.3	3,031.5	3,015.7	13.4	11.8	152.84	569.7	1,783.5	2,243.0	2,220.2	98.524	
3,000.0	2,958.3	3,126.3	3,109.4	13.8	12.2	153.19	555.5	1,779.6	2,253.3	2,229.9	96.134	
3,100.0	3,056.4	3,226.7	3,208.6	14.3	12.5	153.76	540.8	1,775.2	2,263.8	2,239.7	93.806	
3,200.0	3,154.5	3,328.6	3,309.3	14.7	13.0	154.32	526.3	1,770.5	2,274.3	2,249.5	91.575	
3,300.0	3,252.6	3,410.5	3,390.2	15.1	13.3	154.77	514.5	1,766.9	2,285.2	2,259.7	89.724	
3,400.0	3,350.6	3,503.2	3,481.9	15.6	13.7	155.27	501.2	1,763.4	2,296.8	2,270.7	87.882	
3,500.0	3,448.7	3,602.0	3,579.6	16.0	14.1	155.81	487.1	1,759.5	2,308.6	2,281.8	86.072	
3,600.0	3,546.8	3,696.0	3,672.8	16.5	14.4	156.29	474.4	1,755.7	2,320.6	2,293.1	84.412	
3,700.0	3,644.9	3,795.3	3,771.2	16.9	14.8	156.77	461.9	1,751.7	2,332.8	2,304.6	82.792	
3,800.0	3,743.0	3,890.7	3,865.7	17.4	15.2	157.24	449.5	1,747.9	2,345.1	2,316.3	81.286	
3,900.0	3,841.0	3,991.2	3,965.2	17.8	15.6	157.73	436.3	1,743.8	2,357.7	2,328.1	79.804	
4,000.0	3,939.1	4,096.5	4,069.5	18.3	16.0	158.24	422.4	1,739.3	2,370.1	2,339.9	78.333	
4,100.0	4,037.2	4,210.6	4,182.4	18.7	16.5	158.79	407.4	1,733.7	2,382.1	2,351.1	76.810	
4,200.0	4,135.3	4,301.6	4,272.5	19.2	16.9	159.23	395.1	1,729.1	2,394.1	2,362.4	75.554	
4,300.0	4,233.3	4,381.6	4,351.6	19.6	17.2	159.62	383.9	1,725.5	2,406.7	2,374.4	74.479	
4,400.0	4,331.4	4,457.7	4,426.9	20.1	17.5	159.98	373.6	1,722.8	2,420.4	2,387.4	73.532	
4,500.0	4,429.5	4,565.6	4,533.8	20.5	18.0	160.49	358.8	1,718.8	2,434.1	2,400.5	72.372	
4,600.0	4,527.6	4,639.6	4,607.1	21.0	18.3	160.83	349.0	1,716.4	2,448.5	2,414.3	71.552	
4,700.0	4,625.6	4,745.9	4,712.4	21.4	18.7	161.32	334.7	1,713.2	2,463.3	2,428.3	70.534	
4,800.0	4,723.7	4,842.8	4,808.3	21.9	19.1	161.77	321.2	1,710.1	2,478.0	2,442.4	69.618	
4,900.0	4,821.8	4,955.0	4,919.4	22.3	19.6	162.27	306.3	1,706.4	2,492.8	2,456.5	68.622	

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Currier BCU 0993-16-06W - Slot 16-06W
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Reference Site:</b>	Currier 0993-16-07 Pad	<b>MD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Currier BCU 0993-16-06W	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	KLXDirectional-AD
<b>Reference Design:</b>	Design #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Currier 0993-16-07 Pad - (Offset) Buzzard Creek 16-8 - Wellbore #1 - Wellbore #1												Offset Well Error:	0.0 usft
Survey Program: 184-OWSG (REV5) MWD HDGM Standard													
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance		Separation Factor	Warning	
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)				Between Centres (usft)	Between Ellipses (usft)			
5,000.0	4,919.9	5,094.1	5,057.4	22.8	20.2	162.84	289.5	1,699.9	2,506.4	2,469.3	67.413		
5,100.0	5,017.9	5,193.0	5,155.6	23.3	20.6	163.19	279.8	1,694.4	2,519.3	2,481.4	66.498		
5,200.0	5,116.0	5,244.8	5,207.3	23.7	20.8	163.34	276.0	1,691.9	2,533.2	2,494.8	65.982		
5,300.0	5,214.1	5,314.6	5,277.0	24.2	21.1	163.51	272.6	1,689.8	2,548.8	2,509.8	65.422		
5,400.0	5,312.2	5,405.6	5,367.7	24.6	21.6	163.75	267.4	1,687.4	2,564.9	2,525.2	64.565		
5,500.0	5,410.6	5,504.3	5,466.3	25.1	22.3	164.06	261.7	1,685.0	2,579.4	2,538.5	62.978		
5,600.0	5,509.6	5,603.7	5,565.5	25.7	23.0	164.33	256.4	1,682.5	2,590.6	2,548.4	61.390		
5,700.0	5,609.0	5,703.6	5,665.2	26.2	23.8	164.54	251.4	1,680.0	2,598.5	2,555.1	59.849		
5,800.0	5,708.7	5,803.8	5,765.2	26.6	24.5	164.71	246.9	1,677.5	2,603.0	2,558.4	58.360		
5,900.0	5,808.6	5,900.3	5,861.6	27.0	25.2	164.83	242.9	1,675.1	2,604.1	2,558.5	57.045		
6,000.0	5,908.6	5,990.3	5,951.6	27.1	25.7	90.38	240.1	1,673.1	2,602.5	2,556.2	56.257		
6,100.0	6,008.6	6,080.3	6,041.6	27.1	26.2	90.43	238.2	1,671.5	2,600.7	2,553.9	55.560		
6,200.0	6,108.6	6,174.0	6,135.2	27.2	26.8	90.45	237.3	1,670.1	2,599.3	2,551.9	54.849		
6,300.0	6,208.6	6,277.4	6,238.7	27.2	27.2	90.46	236.5	1,668.7	2,597.9	2,550.1	54.318		
6,400.0	6,308.6	6,385.1	6,346.3	27.2	27.6	90.49	235.3	1,666.9	2,596.3	2,548.0	53.764		
6,500.0	6,408.6	6,486.8	6,448.0	27.3	27.9	90.52	233.8	1,665.0	2,594.4	2,545.7	53.311		
6,600.0	6,508.6	6,577.2	6,538.4	27.3	28.1	90.54	233.0	1,663.5	2,592.7	2,543.8	53.048		
6,700.0	6,608.6	6,667.7	6,628.8	27.3	28.2	90.54	233.3	1,662.3	2,591.4	2,542.3	52.794		
6,800.0	6,708.6	6,770.7	6,731.8	27.4	28.3	90.51	234.6	1,661.2	2,590.4	2,541.0	52.479		
6,900.0	6,808.6	6,906.3	6,867.4	27.4	28.5	90.47	236.3	1,658.6	2,588.4	2,538.6	51.979		
7,000.0	6,908.6	7,036.7	6,997.7	27.4	28.7	90.44	237.6	1,654.4	2,585.2	2,534.9	51.453		
7,100.0	7,008.6	7,161.2	7,122.1	27.5	29.0	90.43	238.3	1,649.1	2,580.9	2,530.2	50.905		
7,200.0	7,108.6	7,270.9	7,231.7	27.5	29.3	90.43	238.3	1,643.5	2,575.8	2,524.7	50.391		
7,300.0	7,208.6	7,365.2	7,325.9	27.5	29.6	90.44	237.9	1,638.8	2,570.8	2,519.3	49.924		
7,400.0	7,308.6	7,459.5	7,420.0	27.6	29.9	90.46	237.0	1,634.3	2,566.0	2,514.1	49.468		
7,500.0	7,408.6	7,554.6	7,515.0	27.6	30.2	90.48	235.9	1,629.9	2,561.4	2,509.2	49.046		
7,600.0	7,508.6	7,650.6	7,610.9	27.6	30.4	90.48	235.9	1,625.6	2,557.0	2,504.4	48.656		
7,700.0	7,608.6	7,746.6	7,706.8	27.7	30.6	90.45	237.3	1,621.5	2,552.7	2,499.8	48.271		
7,800.0	7,708.6	7,820.0	7,780.1	27.7	30.7	90.42	239.0	1,618.5	2,548.7	2,495.7	48.077	SF	
7,880.5	7,789.1	7,820.0	7,780.1	27.7	30.7	90.42	239.0	1,618.5	2,547.4	2,494.5	48.167		
7,900.0	7,808.6	7,820.0	7,780.1	27.7	30.7	90.42	239.0	1,618.5	2,547.5	2,494.6	48.201		
8,000.0	7,908.6	7,820.0	7,780.1	27.8	30.7	90.42	239.0	1,618.5	2,550.2	2,497.6	48.455		
8,100.0	8,008.6	7,820.0	7,780.1	27.8	30.7	90.42	239.0	1,618.5	2,556.8	2,504.5	48.839		
8,200.0	8,108.6	7,820.0	7,780.1	27.9	30.7	90.42	239.0	1,618.5	2,567.4	2,515.3	49.351		
8,300.0	8,208.6	7,820.0	7,780.1	27.9	30.7	90.42	239.0	1,618.5	2,581.7	2,530.1	49.989		
8,400.0	8,308.6	7,820.0	7,780.1	27.9	30.7	90.42	239.0	1,618.5	2,599.8	2,548.6	50.754		
8,500.0	8,408.6	7,820.0	7,780.1	28.0	30.7	90.42	239.0	1,618.5	2,621.6	2,570.9	51.641		
8,600.0	8,508.6	7,820.0	7,780.1	28.0	30.7	90.42	239.0	1,618.5	2,647.1	2,596.8	52.649		
8,700.0	8,608.6	7,820.0	7,780.1	28.0	30.7	90.42	239.0	1,618.5	2,676.0	2,626.2	53.773		
8,757.4	8,666.0	7,820.0	7,780.1	28.1	30.7	90.42	239.0	1,618.5	2,694.1	2,644.6	54.476		

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Currier BCU 0993-16-06W - Slot 16-06W
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Reference Site:</b>	Currier 0993-16-07 Pad	<b>MD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Currier BCU 0993-16-06W	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	KLXDirectional-AD
<b>Reference Design:</b>	Design #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design											Currier 0993-16-07 Pad - (Offset) Buzzard Creek 21-1 - Wellbore #1 - Wellbore #1	Offset Site Error:	0.0 usft
Survey Program: 130-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	134.59	-1,894.7	1,922.0	2,702.5				
100.0	100.0	0.0	0.0	0.8	0.0	134.59	-1,894.7	1,922.0	2,699.2	2,698.4	3,404.964		
140.0	140.0	0.0	0.0	1.0	0.0	134.59	-1,894.7	1,922.0	2,698.9	2,697.9	2,593.030	CC	
200.0	200.0	56.4	56.4	1.4	0.3	134.59	-1,894.8	1,922.0	2,698.9	2,697.2	1,561.083		
300.0	300.0	130.0	130.0	1.9	0.7	134.60	-1,895.2	1,921.9	2,699.3	2,696.7	1,040.993	ES	
400.0	400.0	219.0	219.0	2.2	1.5	134.62	-1,896.7	1,921.9	2,700.5	2,696.9	740.411		
500.0	500.0	294.9	294.9	2.4	2.0	-150.82	-1,899.3	1,921.8	2,702.9	2,698.7	644.534		
600.0	599.9	359.0	358.9	3.1	2.3	-150.74	-1,902.2	1,921.5	2,708.7	2,703.6	532.049		
700.0	699.7	423.2	422.9	4.1	2.6	-150.63	-1,906.1	1,921.7	2,718.9	2,712.7	439.117		
800.0	799.2	490.0	489.6	4.9	3.0	-150.49	-1,911.0	1,922.0	2,733.2	2,726.0	381.326		
900.0	898.3	570.4	569.6	5.6	3.4	-150.31	-1,918.1	1,922.3	2,751.4	2,743.3	338.913		
1,000.0	996.8	648.1	646.9	6.3	3.7	-150.10	-1,926.2	1,922.1	2,773.4	2,764.4	308.193		
1,100.0	1,094.9	724.9	723.2	6.5	4.1	-150.06	-1,935.3	1,921.7	2,798.1	2,788.6	294.308		
1,200.0	1,193.0	799.5	797.1	6.8	4.4	-150.06	-1,945.1	1,921.0	2,823.6	2,813.5	280.748		
1,300.0	1,291.1	871.5	868.4	7.1	4.8	-150.04	-1,955.5	1,920.3	2,849.9	2,839.2	268.045		
1,400.0	1,389.1	952.0	947.8	7.4	5.2	-150.00	-1,968.5	1,919.3	2,877.1	2,865.8	255.359		
1,500.0	1,487.2	1,047.9	1,042.3	7.8	5.6	-149.92	-1,984.9	1,917.5	2,904.6	2,892.7	243.058		
1,600.0	1,585.3	1,128.2	1,121.2	8.1	6.0	-149.84	-1,999.4	1,915.2	2,932.2	2,919.6	233.449		
1,700.0	1,683.4	1,201.3	1,192.9	8.5	6.3	-149.75	-2,013.6	1,912.9	2,960.3	2,947.2	224.849		
1,800.0	1,781.4	1,274.3	1,264.3	8.9	6.6	-149.64	-2,028.7	1,910.3	2,989.2	2,975.5	216.702		
1,900.0	1,879.5	1,348.9	1,337.0	9.3	7.0	-149.51	-2,045.2	1,907.4	3,018.9	3,004.4	209.007		
2,000.0	1,977.6	1,427.4	1,413.3	9.7	7.4	-149.37	-2,063.4	1,904.1	3,049.1	3,034.0	201.793		
2,100.0	2,075.7	1,523.3	1,506.6	10.1	7.8	-149.20	-2,085.4	1,900.6	3,079.6	3,063.8	194.406		
2,200.0	2,173.7	1,611.3	1,592.2	10.5	8.2	-149.06	-2,105.5	1,897.7	3,110.2	3,093.6	187.781		
2,300.0	2,271.8	1,706.4	1,684.6	10.9	8.6	-148.90	-2,127.5	1,894.5	3,141.0	3,123.7	181.209		
2,400.0	2,369.9	1,796.1	1,771.9	11.3	9.0	-148.75	-2,148.1	1,891.5	3,171.7	3,153.6	175.367		
2,500.0	2,468.0	1,853.0	1,827.1	11.7	9.3	-148.66	-2,161.6	1,889.5	3,203.0	3,184.3	171.503		
2,600.0	2,566.0	1,931.3	1,902.9	12.1	9.6	-148.51	-2,181.1	1,886.7	3,235.1	3,215.7	166.750		
2,700.0	2,664.1	2,009.8	1,978.6	12.5	10.0	-148.36	-2,201.7	1,883.8	3,267.9	3,247.8	162.308		
2,800.0	2,762.2	2,085.7	2,051.7	13.0	10.4	-148.20	-2,221.9	1,881.1	3,301.2	3,280.3	158.303		
2,900.0	2,860.3	2,155.4	2,118.7	13.4	10.7	-148.06	-2,241.0	1,878.7	3,335.0	3,313.5	154.804		
3,000.0	2,958.3	2,224.0	2,184.3	13.8	11.1	-147.91	-2,260.7	1,876.1	3,369.7	3,347.5	151.524		
3,100.0	3,056.4	2,308.6	2,265.1	14.3	11.5	-147.71	-2,285.8	1,872.7	3,404.9	3,381.9	147.775		
3,200.0	3,154.5	2,383.6	2,336.5	14.7	11.9	-147.52	-2,308.4	1,869.5	3,440.4	3,416.6	144.654		
3,300.0	3,252.6	2,458.5	2,407.6	15.1	12.2	-147.34	-2,331.7	1,866.1	3,476.4	3,451.9	141.714		
3,400.0	3,350.6	2,527.8	2,473.1	15.6	12.6	-147.15	-2,353.9	1,862.7	3,513.0	3,487.8	139.125		
3,500.0	3,448.7	2,597.0	2,538.3	16.0	12.9	-146.96	-2,377.0	1,859.3	3,550.4	3,524.4	136.661		
3,600.0	3,546.8	2,657.6	2,595.2	16.5	13.2	-146.79	-2,397.8	1,856.2	3,588.5	3,561.9	134.626		
3,700.0	3,644.9	2,732.2	2,665.0	16.9	13.6	-146.57	-2,423.7	1,852.6	3,627.2	3,599.8	132.239		
3,800.0	3,743.0	2,810.4	2,738.1	17.4	14.0	-146.35	-2,451.3	1,848.8	3,666.4	3,638.1	129.872		
3,900.0	3,841.0	2,897.7	2,819.5	17.8	14.5	-146.10	-2,482.5	1,844.3	3,705.8	3,676.7	127.341		
4,000.0	3,939.1	2,997.4	2,912.5	18.3	15.0	-145.81	-2,518.1	1,839.0	3,745.0	3,714.9	124.564		
4,100.0	4,037.2	3,072.9	2,982.9	18.7	15.3	-145.60	-2,545.0	1,835.2	3,784.5	3,753.7	122.665		
4,200.0	4,135.3	3,152.0	3,056.6	19.2	15.7	-145.39	-2,573.4	1,831.3	3,824.4	3,792.7	120.758		
4,300.0	4,233.3	3,221.5	3,121.3	19.6	16.1	-145.20	-2,598.5	1,828.3	3,864.7	3,832.3	119.222		
4,400.0	4,331.4	3,352.3	3,243.3	20.1	16.8	-144.87	-2,645.6	1,822.6	3,905.1	3,871.5	116.131		
4,500.0	4,429.5	3,483.2	3,365.8	20.5	17.4	-144.55	-2,691.1	1,816.2	3,944.2	3,909.4	113.266		
4,600.0	4,527.6	3,562.4	3,440.2	21.0	17.8	-144.38	-2,717.9	1,812.7	3,983.1	3,947.4	111.776		
4,700.0	4,625.6	3,631.0	3,504.7	21.4	18.2	-144.24	-2,741.1	1,810.5	4,022.5	3,986.2	110.606		
4,800.0	4,723.7	3,720.9	3,589.3	21.9	18.6	-144.06	-2,771.5	1,808.0	4,062.3	4,025.0	109.027		
4,900.0	4,821.8	3,800.0	3,663.8	22.3	19.0	-143.91	-2,798.2	1,805.7	4,102.0	4,064.0	107.758		

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Currier BCU 0993-16-06W - Slot 16-06W
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Reference Site:</b>	Currier 0993-16-07 Pad	<b>MD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Currier BCU 0993-16-06W	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	KLXDirectional-AD
<b>Reference Design:</b>	Design #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Currier 0993-16-07 Pad - (Offset) Buzzard Creek 21-1 - Wellbore #1 - Wellbore #1												Offset Well Error:	0.0 usft
Survey Program: 130-OWSG (REV5) MWD HDGM Standard													
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance		Separation Factor	Warning	
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)				Between Centres (usft)	Between Ellipses (usft)			
5,000.0	4,919.9	3,872.0	3,731.4	22.8	19.4	-143.77	-2,822.9	1,803.7	4,142.2	4,103.4	106.691		
5,100.0	5,017.9	3,977.9	3,830.8	23.3	19.9	-143.57	-2,859.4	1,801.0	4,182.7	4,142.8	104.993		
5,200.0	5,116.0	4,070.6	3,917.9	23.7	20.4	-143.41	-2,890.9	1,798.6	4,222.8	4,182.1	103.628		
5,300.0	5,214.1	4,163.5	4,005.2	24.2	20.9	-143.24	-2,922.5	1,796.2	4,263.0	4,221.4	102.324		
5,400.0	5,312.2	4,288.4	4,122.9	24.6	21.5	-143.05	-2,964.4	1,792.6	4,302.7	4,259.9	100.501		
5,500.0	5,410.6	4,367.5	4,197.4	25.1	21.9	-143.40	-2,990.7	1,790.5	4,340.9	4,297.3	99.426		
5,600.0	5,509.6	4,495.7	4,318.6	25.7	22.6	-143.61	-3,032.4	1,788.1	4,376.6	4,331.7	97.597		
5,700.0	5,609.0	4,628.9	4,444.9	26.2	23.3	-143.72	-3,074.7	1,784.5	4,408.3	4,362.3	95.795		
5,800.0	5,708.7	4,759.3	4,569.4	26.6	24.0	-143.79	-3,113.4	1,782.0	4,436.2	4,389.1	94.123		
5,900.0	5,808.6	4,820.0	4,627.2	27.0	24.3	-143.97	-3,131.7	1,781.5	4,462.4	4,414.7	93.557		
6,000.0	5,908.6	4,850.4	4,656.1	27.1	24.5	141.43	-3,141.2	1,781.4	4,487.1	4,439.3	93.843		
6,100.0	6,008.6	4,913.0	4,715.3	27.1	24.8	141.60	-3,161.5	1,780.6	4,512.3	4,464.2	93.764		
6,200.0	6,108.6	5,036.8	4,832.2	27.2	25.4	141.96	-3,202.2	1,778.1	4,537.5	4,488.6	92.809		
6,300.0	6,208.6	5,130.2	4,920.4	27.2	25.9	142.23	-3,232.9	1,776.1	4,562.7	4,513.3	92.323		
6,400.0	6,308.6	5,248.3	5,032.0	27.2	26.5	142.56	-3,271.5	1,773.0	4,587.5	4,537.4	91.508		
6,500.0	6,408.6	5,339.6	5,118.3	27.3	27.0	142.82	-3,301.1	1,770.5	4,612.4	4,561.7	91.071		
6,600.0	6,508.6	5,430.8	5,204.6	27.3	27.5	143.06	-3,330.5	1,768.6	4,637.4	4,586.2	90.646		
6,700.0	6,608.6	5,547.8	5,315.3	27.3	28.1	143.38	-3,368.2	1,766.0	4,662.4	4,610.6	89.906		
6,800.0	6,708.6	5,632.8	5,395.9	27.4	28.5	143.61	-3,395.5	1,763.8	4,687.2	4,634.9	89.573		
6,900.0	6,808.6	5,713.8	5,472.4	27.4	28.9	143.82	-3,421.7	1,761.8	4,712.5	4,659.7	89.299		
7,000.0	6,908.6	5,824.1	5,576.6	27.4	29.5	144.12	-3,457.7	1,758.8	4,737.8	4,684.4	88.678		
7,100.0	7,008.6	7,125.6	6,849.2	27.5	35.4	146.26	-3,686.2	1,705.4	4,742.6	4,683.6	80.412		
7,200.0	7,108.6	7,223.2	6,946.7	27.5	35.7	146.29	-3,687.8	1,703.7	4,743.0	4,683.9	80.196		
7,300.0	7,208.6	7,325.1	7,048.6	27.5	36.1	146.32	-3,689.5	1,702.0	4,743.5	4,684.0	79.745		
7,400.0	7,308.6	7,427.3	7,150.7	27.6	36.5	146.35	-3,691.5	1,699.8	4,743.9	4,684.1	79.293		
7,500.0	7,408.6	7,529.4	7,252.8	27.6	37.0	146.39	-3,693.7	1,697.2	4,744.2	4,684.1	78.851		
7,600.0	7,508.6	7,644.9	7,368.2	27.6	37.5	146.44	-3,696.3	1,693.7	4,744.5	4,684.0	78.408		
7,700.0	7,608.6	7,798.8	7,522.0	27.7	38.1	146.51	-3,698.6	1,688.7	4,744.0	4,683.1	77.943		
7,800.0	7,708.6	7,952.8	7,675.9	27.7	38.7	146.56	-3,698.9	1,683.5	4,742.3	4,681.1	77.477		
7,900.0	7,808.6	8,109.0	7,832.1	27.7	38.9	146.61	-3,697.1	1,678.1	4,739.4	4,678.1	77.344		
8,000.0	7,908.6	8,265.2	7,988.1	27.8	39.2	146.64	-3,693.2	1,672.6	4,735.4	4,674.0	77.202		
8,100.0	8,008.6	8,352.7	8,075.5	27.8	39.3	146.65	-3,690.4	1,669.6	4,730.9	4,669.4	77.034		
8,200.0	8,108.6	8,438.6	8,161.3	27.9	39.5	146.66	-3,688.0	1,666.6	4,726.6	4,665.1	76.873		
8,300.0	8,208.6	8,524.4	8,247.0	27.9	39.6	146.68	-3,685.9	1,663.7	4,722.7	4,661.1	76.719		
8,400.0	8,308.6	8,614.4	8,337.0	27.9	39.7	146.70	-3,684.0	1,660.7	4,719.1	4,657.5	76.633		
8,500.0	8,408.6	8,660.0	8,382.5	28.0	39.7	146.70	-3,683.0	1,659.2	4,715.8	4,654.2	76.550		
8,600.0	8,508.6	8,660.0	8,382.5	28.0	39.7	146.70	-3,683.0	1,659.2	4,714.5	4,652.7	76.392		
8,613.9	8,522.6	8,660.0	8,382.5	28.0	39.7	146.70	-3,683.0	1,659.2	4,714.4	4,652.7	76.374		
8,700.0	8,608.6	8,660.0	8,382.5	28.0	39.7	146.70	-3,683.0	1,659.2	4,715.2	4,653.4	76.292		
8,757.4	8,666.0	8,660.0	8,382.5	28.1	39.7	146.70	-3,683.0	1,659.2	4,716.6	4,654.8	76.271	SF	

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



Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Currier BCU 0993-16-06W - Slot 16-06W
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Reference Site:</b>	Currier 0993-16-07 Pad	<b>MD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Currier BCU 0993-16-06W	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	KLXDirectional-AD
<b>Reference Design:</b>	Design #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design											Currier 0993-16-07 Pad - (Offset) Currier 9-15 - Wellbore #1 - Wellbore #1	Offset Site Error:	0.0 usft
Survey Program:											162-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)	+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	4.62	1,222.9	98.8	1,226.9				
100.0	100.0	99.3	99.3	0.8	0.6	4.62	1,223.0	98.8	1,227.0	1,225.6	879.787		
200.0	200.0	198.3	198.3	1.4	1.3	4.61	1,223.2	98.5	1,227.2	1,224.4	446.462		
300.0	300.0	298.5	298.5	1.9	2.3	4.58	1,223.5	98.1	1,227.4	1,223.2	294.241		
400.0	400.0	397.3	397.3	2.2	3.1	4.55	1,223.8	97.4	1,227.6	1,222.3	231.441		
500.0	500.0	495.0	495.0	2.4	3.8	79.00	1,224.2	96.1	1,228.0	1,221.9	201.679		
600.0	599.9	590.8	590.7	3.1	4.3	79.06	1,225.0	94.4	1,228.0	1,221.1	178.519		
700.0	699.7	685.7	685.6	4.1	4.8	79.27	1,226.1	92.7	1,227.8	1,220.1	160.486		
800.0	799.2	790.5	790.4	4.9	5.1	79.70	1,227.4	91.2	1,227.0	1,218.8	149.674		
900.0	898.3	902.9	902.9	5.6	5.3	80.44	1,227.7	91.3	1,224.9	1,216.3	141.929		
1,000.0	996.8	1,008.3	1,008.2	6.3	5.4	81.45	1,226.7	93.7	1,221.5	1,212.5	134.641		
1,100.0	1,094.9	1,105.9	1,105.7	6.5	5.5	82.52	1,225.4	97.3	1,218.0	1,208.6	129.868		
1,200.0	1,193.0	1,204.9	1,204.6	6.8	5.5	83.63	1,224.0	101.6	1,214.7	1,204.9	124.389		
1,300.0	1,291.1	1,301.1	1,300.7	7.1	5.6	84.73	1,222.4	106.1	1,211.8	1,201.6	119.161		
1,400.0	1,389.1	1,392.9	1,392.5	7.4	5.8	85.72	1,221.4	109.1	1,209.7	1,199.1	114.371		
1,500.0	1,487.2	1,476.8	1,476.3	7.8	5.9	86.60	1,221.1	111.3	1,208.6	1,197.6	109.885		
1,508.0	1,495.1	1,482.8	1,482.3	7.8	5.9	86.66	1,221.1	111.5	1,208.6	1,197.5	109.536	CC, ES	
1,600.0	1,585.3	1,554.5	1,554.0	8.1	6.0	87.42	1,222.1	113.7	1,209.5	1,198.1	105.949		
1,700.0	1,683.4	1,624.0	1,623.4	8.5	6.0	88.14	1,224.1	115.9	1,212.4	1,200.7	102.959		
1,800.0	1,781.4	1,688.0	1,687.3	8.9	6.0	88.79	1,227.6	118.3	1,218.4	1,206.2	100.298		
1,900.0	1,879.5	1,752.0	1,751.0	9.3	6.1	89.44	1,232.9	121.0	1,227.4	1,214.8	97.958		
2,000.0	1,977.6	1,816.0	1,814.5	9.7	6.2	90.05	1,240.3	123.7	1,239.6	1,226.7	95.898		
2,100.0	2,075.7	1,880.0	1,877.8	10.1	6.3	90.60	1,249.6	125.9	1,254.8	1,241.5	94.201		
2,200.0	2,173.7	1,955.2	1,951.9	10.5	6.4	91.21	1,261.8	128.1	1,271.9	1,258.1	92.483		
2,300.0	2,271.8	2,008.0	2,003.8	10.9	6.5	91.59	1,271.8	129.4	1,291.6	1,277.5	91.454		
2,400.0	2,369.9	2,064.3	2,058.6	11.3	7.0	91.94	1,284.5	130.2	1,314.7	1,299.8	88.373		
2,500.0	2,468.0	2,104.0	2,096.9	11.7	7.4	92.15	1,295.0	130.4	1,341.3	1,325.9	86.675		
2,600.0	2,566.0	2,171.6	2,161.4	12.1	8.3	92.44	1,315.2	130.5	1,370.9	1,354.3	82.574		
2,700.0	2,664.1	2,228.2	2,214.8	12.5	8.8	92.65	1,333.9	130.5	1,403.2	1,385.8	80.587		
2,800.0	2,762.2	2,296.0	2,278.2	13.0	9.3	92.87	1,358.1	130.9	1,438.1	1,419.9	79.115		
2,900.0	2,860.3	2,344.0	2,322.5	13.4	9.5	93.02	1,376.2	131.4	1,475.1	1,456.6	77.751		
3,000.0	2,958.3	2,391.0	2,365.7	13.8	9.6	93.16	1,395.0	132.1	1,514.6	1,495.8	80.585		
3,100.0	3,056.4	2,455.0	2,423.8	14.3	9.7	93.37	1,421.6	134.6	1,556.4	1,537.2	81.040		
3,200.0	3,154.5	2,552.1	2,511.9	14.7	10.0	93.73	1,462.1	139.8	1,598.8	1,579.0	80.542		
3,300.0	3,252.6	2,651.9	2,602.7	15.1	10.3	94.08	1,503.4	145.1	1,641.0	1,620.5	79.895		
3,400.0	3,350.6	2,721.9	2,666.2	15.6	10.5	94.32	1,532.5	148.8	1,683.4	1,662.4	80.018		
3,500.0	3,448.7	2,838.5	2,772.0	16.0	10.9	94.68	1,581.1	154.9	1,725.9	1,704.0	78.668		
3,600.0	3,546.8	2,953.2	2,877.0	16.5	11.4	95.03	1,626.8	160.3	1,766.6	1,743.8	77.290		
3,700.0	3,644.9	3,053.6	2,969.2	16.9	11.8	95.30	1,666.6	164.1	1,806.7	1,783.0	76.243		
3,800.0	3,743.0	3,125.2	3,034.8	17.4	12.1	95.47	1,695.0	166.6	1,847.0	1,822.7	75.976		
3,900.0	3,841.0	3,194.1	3,097.6	17.8	12.4	95.64	1,723.2	169.5	1,888.5	1,863.6	75.838		
4,000.0	3,939.1	3,275.8	3,172.0	18.3	12.8	95.87	1,756.6	174.6	1,930.8	1,905.2	75.432		
4,100.0	4,037.2	3,385.9	3,272.7	18.7	13.2	96.19	1,800.8	181.4	1,972.3	1,945.8	74.368		
4,200.0	4,135.3	3,455.0	3,335.6	19.2	13.5	96.38	1,828.8	185.9	2,014.4	1,987.3	74.276		
4,300.0	4,233.3	3,588.8	3,458.4	19.6	14.2	96.77	1,881.2	194.8	2,055.3	2,027.0	72.498		
4,400.0	4,331.4	3,656.0	3,520.0	20.1	14.5	96.95	1,907.7	199.3	2,096.5	2,067.5	72.336		
4,500.0	4,429.5	3,738.1	3,595.0	20.5	14.9	97.15	1,940.7	204.5	2,138.4	2,108.7	71.981		
4,600.0	4,527.6	3,826.4	3,675.6	21.0	15.3	97.36	1,976.4	210.1	2,180.6	2,150.1	71.546		
4,700.0	4,625.6	3,918.1	3,759.3	21.4	15.8	97.58	2,013.3	216.3	2,222.7	2,191.5	71.062		
4,800.0	4,723.7	3,987.9	3,822.9	21.9	16.1	97.73	2,041.7	220.9	2,265.3	2,233.4	70.985		
4,900.0	4,821.8	4,104.9	3,929.1	22.3	16.8	97.95	2,090.2	228.0	2,308.4	2,275.4	69.996		

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Currier BCU 0993-16-06W - Slot 16-06W
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Reference Site:</b>	Currier 0993-16-07 Pad	<b>MD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Currier BCU 0993-16-06W	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	KLXDirectional-AD
<b>Reference Design:</b>	Design #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design											Currier 0993-16-07 Pad - (Offset) Currier 9-15 - Wellbore #1 - Wellbore #1	Offset Site Error:	0.0 usft
Survey Program: 162-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
5,000.0	4,919.9	4,197.7	4,013.9	22.8	17.4	98.11	2,127.6	233.0	2,350.1	2,316.3	69.473		
5,100.0	5,017.9	4,298.9	4,106.2	23.3	18.0	98.26	2,168.9	237.6	2,391.9	2,357.2	68.870		
5,200.0	5,116.0	4,365.6	4,167.1	23.7	18.5	98.37	2,195.9	241.0	2,433.8	2,398.4	68.848		
5,300.0	5,214.1	4,457.6	4,250.6	24.2	19.1	98.51	2,234.0	246.1	2,476.6	2,440.4	68.414		
5,400.0	5,312.2	4,620.8	4,400.3	24.6	20.1	98.82	2,298.4	255.0	2,517.6	2,479.9	66.872		
5,500.0	5,410.6	4,751.5	4,521.3	25.1	20.9	99.81	2,347.4	261.7	2,556.5	2,517.7	65.887		
5,600.0	5,509.6	4,846.0	4,609.3	25.7	21.4	100.66	2,381.4	266.9	2,593.7	2,554.2	65.539		
5,700.0	5,609.0	4,889.0	4,649.2	26.2	21.7	101.45	2,397.2	269.1	2,631.2	2,591.3	65.960		
5,800.0	5,708.7	4,955.6	4,710.8	26.6	22.1	102.16	2,422.6	272.7	2,669.1	2,628.7	66.113		
5,900.0	5,808.6	5,015.9	4,765.9	27.0	22.5	102.84	2,446.7	276.1	2,708.0	2,667.3	66.452		
6,000.0	5,908.6	5,152.8	4,891.0	27.1	23.4	28.39	2,501.6	283.8	2,746.6	2,704.9	65.854		
6,100.0	6,008.6	5,314.8	5,040.8	27.1	24.4	27.88	2,563.0	290.6	2,782.2	2,739.4	64.971		
6,200.0	6,108.6	5,423.8	5,142.2	27.2	25.1	27.56	2,602.8	295.1	2,816.7	2,773.2	64.765		
6,300.0	6,208.6	5,691.2	5,394.4	27.2	26.5	26.94	2,690.4	307.4	2,848.1	2,802.8	62.821		
6,400.0	6,308.6	5,767.7	5,467.4	27.2	26.9	26.81	2,712.7	312.1	2,877.0	2,831.2	62.861		
6,500.0	6,408.6	6,202.1	5,887.5	27.3	28.7	26.12	2,820.7	328.2	2,902.2	2,853.9	60.027		
6,600.0	6,508.6	6,646.1	6,327.6	27.3	29.7	25.69	2,876.3	331.0	2,911.8	2,861.9	58.382		
6,700.0	6,608.6	6,846.3	6,527.5	27.3	30.0	25.61	2,887.3	331.5	2,917.3	2,867.0	57.946		
6,800.0	6,708.6	7,052.0	6,733.1	27.4	30.3	25.56	2,889.8	330.0	2,917.9	2,867.5	57.866		
6,825.4	6,734.1	7,053.9	6,735.1	27.4	30.3	25.56	2,889.9	330.1	2,917.9	2,867.4	57.802		
6,900.0	6,808.6	7,092.0	6,773.1	27.4	30.3	25.55	2,890.2	329.8	2,918.3	2,867.6	57.630		
7,000.0	6,908.6	7,158.1	6,839.2	27.4	30.5	25.54	2,891.3	329.8	2,919.9	2,869.0	57.346		
7,100.0	7,008.6	7,222.4	6,903.5	27.5	30.7	25.54	2,893.2	330.4	2,923.0	2,871.8	57.080		
7,200.0	7,108.6	7,295.2	6,976.2	27.5	30.9	25.53	2,896.1	331.4	2,927.1	2,875.6	56.789		
7,300.0	7,208.6	7,712.1	7,392.5	27.5	31.1	25.43	2,892.3	324.1	2,923.2	2,872.3	57.411		
7,400.0	7,308.6	7,764.0	7,444.3	27.6	31.0	25.41	2,890.6	321.9	2,918.1	2,867.1	57.139		
7,500.0	7,408.6	7,801.0	7,481.2	27.6	31.0	25.39	2,890.0	320.7	2,914.9	2,863.6	56.827		
7,600.0	7,508.6	7,867.3	7,547.5	27.6	31.0	25.35	2,889.8	318.4	2,913.0	2,861.6	56.676		
7,700.0	7,608.6	8,079.0	7,759.0	27.7	31.3	25.21	2,887.8	309.7	2,911.1	2,860.2	57.147		
7,800.0	7,708.6	8,152.8	7,832.8	27.7	31.3	25.19	2,885.2	307.1	2,906.5	2,855.6	57.075		
7,900.0	7,808.6	8,242.0	7,921.8	27.7	31.2	25.16	2,882.2	304.1	2,902.0	2,851.2	57.113		
8,000.0	7,908.6	8,337.0	8,016.7	27.8	31.2	25.15	2,879.1	302.1	2,898.2	2,847.5	57.182		
8,100.0	8,008.6	8,428.5	8,108.2	27.8	31.1	25.17	2,876.2	301.6	2,895.0	2,844.4	57.242		
8,200.0	8,108.6	8,487.9	8,167.6	27.9	31.1	25.17	2,874.6	301.1	2,892.3	2,841.6	57.116		
8,297.0	8,205.7	8,527.0	8,206.7	27.9	31.1	25.17	2,874.1	300.8	2,891.1	2,840.3	56.940		
8,300.0	8,208.6	8,527.0	8,206.7	27.9	31.1	25.17	2,874.1	300.8	2,891.1	2,840.3	56.930		
8,400.0	8,308.6	8,592.0	8,271.6	27.9	31.2	25.17	2,874.3	300.6	2,891.5	2,840.5	56.745		
8,500.0	8,408.6	8,657.0	8,336.6	28.0	31.2	25.16	2,875.7	300.9	2,893.5	2,842.3	56.522		
8,600.0	8,508.6	8,747.3	8,426.9	28.0	31.4	25.15	2,878.2	301.5	2,896.2	2,844.7	56.236		
8,700.0	8,608.6	8,842.2	8,521.7	28.0	31.5	25.14	2,880.9	302.2	2,899.2	2,847.4	55.950		
8,757.4	8,666.0	8,904.9	8,584.5	28.1	31.6	25.13	2,882.8	302.6	2,900.9	2,848.9	55.795 SF		

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Currier BCU 0993-16-06W - Slot 16-06W
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Reference Site:</b>	Currier 0993-16-07 Pad	<b>MD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Currier BCU 0993-16-06W	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	KLXDirectional-AD
<b>Reference Design:</b>	Design #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design											Currier 0993-16-07 Pad - (Offset) Currier Family 16-3 - Wellbore #1 - Wellbore #1	Offset Site Error:	0.0 usft
Survey Program: 130-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)	+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	4.13	1,212.0	87.5	1,215.2				
100.0	100.0	99.0	99.0	0.8	0.6	4.13	1,212.0	87.6	1,215.2	1,213.9	904.123		
200.0	200.0	198.8	198.8	1.4	1.2	4.14	1,212.1	87.7	1,215.3	1,212.7	468.875		
300.0	300.0	294.6	294.6	1.9	1.7	4.13	1,212.4	87.5	1,215.5	1,212.0	344.590		
400.0	400.0	386.0	386.0	2.2	2.2	4.05	1,213.2	85.8	1,216.3	1,211.9	277.138		
500.0	500.0	477.9	477.8	2.4	2.6	78.38	1,214.8	82.3	1,217.7	1,212.9	249.684		
600.0	599.9	573.3	573.0	3.1	3.0	78.25	1,217.1	77.3	1,219.1	1,213.7	224.396		
700.0	699.7	667.5	666.9	4.1	3.5	78.17	1,219.9	70.2	1,220.2	1,214.2	202.919		
800.0	799.2	757.0	756.0	4.9	4.0	78.15	1,223.2	61.6	1,221.3	1,214.7	186.164		
900.0	898.3	849.4	847.6	5.6	4.5	78.19	1,227.5	50.7	1,222.4	1,215.3	172.358		
1,000.0	996.8	953.0	950.0	6.3	5.1	78.27	1,232.6	35.7	1,222.9	1,215.2	158.667		
1,100.0	1,094.9	1,043.8	1,039.3	6.5	5.6	78.35	1,237.4	20.3	1,223.1	1,214.9	149.283		
1,200.0	1,193.0	1,134.5	1,128.3	6.8	6.0	78.35	1,243.1	3.5	1,224.1	1,215.4	139.717		
1,300.0	1,291.1	1,222.5	1,214.4	7.1	6.3	78.33	1,249.3	-13.4	1,226.0	1,216.6	131.178		
1,400.0	1,389.1	1,322.4	1,312.2	7.4	6.7	78.31	1,257.0	-32.5	1,228.4	1,218.4	122.971		
1,500.0	1,487.2	1,418.9	1,406.7	7.8	7.1	78.29	1,264.4	-50.9	1,230.9	1,220.3	115.772		
1,600.0	1,585.3	1,508.0	1,493.8	8.1	7.4	78.28	1,271.8	-67.7	1,233.9	1,222.7	109.595		
1,700.0	1,683.4	1,614.7	1,598.3	8.5	7.8	78.30	1,280.9	-87.0	1,237.3	1,225.4	103.514		
1,800.0	1,781.4	1,741.9	1,723.1	8.9	8.3	78.34	1,289.9	-109.9	1,239.2	1,226.5	97.078		
1,900.0	1,879.5	1,845.9	1,825.2	9.3	8.8	78.37	1,295.4	-128.8	1,239.4	1,225.9	91.886		
2,000.0	1,977.6	1,937.9	1,915.7	9.7	9.2	78.44	1,301.0	-144.7	1,240.3	1,226.2	87.801		
2,100.0	2,075.7	2,069.0	2,044.7	10.1	9.7	78.55	1,308.1	-166.9	1,240.7	1,225.8	83.064		
2,200.0	2,173.7	2,157.8	2,132.0	10.5	10.1	78.59	1,311.6	-182.9	1,239.6	1,224.0	79.387		
2,240.0	2,213.0	2,191.5	2,165.1	10.6	10.2	78.59	1,313.3	-189.1	1,239.5	1,223.6	78.118		
2,300.0	2,271.8	2,241.9	2,214.6	10.9	10.4	78.61	1,316.1	-198.2	1,239.7	1,223.5	76.374		
2,400.0	2,369.9	2,361.3	2,331.8	11.3	11.0	78.67	1,322.6	-219.5	1,240.1	1,223.1	72.990		
2,500.0	2,468.0	2,459.1	2,427.9	11.7	11.4	78.69	1,327.0	-237.4	1,239.4	1,221.8	70.131		
2,570.5	2,537.1	2,522.0	2,489.8	12.0	11.6	78.72	1,330.1	-248.6	1,239.2	1,221.1	68.415		
2,600.0	2,566.0	2,549.0	2,516.3	12.1	11.8	78.74	1,331.5	-253.3	1,239.2	1,220.9	67.723		
2,700.0	2,664.1	2,662.0	2,627.4	12.5	12.3	78.81	1,337.0	-273.2	1,239.0	1,220.0	65.190		
2,800.0	2,762.2	2,776.3	2,739.6	13.0	12.8	78.80	1,341.1	-295.0	1,237.3	1,217.6	62.667		
2,900.0	2,860.3	2,867.6	2,829.1	13.4	13.2	78.81	1,344.2	-312.1	1,235.5	1,215.1	60.584		
3,000.0	2,958.3	2,964.8	2,924.7	13.8	13.6	78.86	1,348.4	-329.3	1,234.7	1,213.6	58.665		
3,100.0	3,056.4	3,075.0	3,033.0	14.3	14.1	78.90	1,352.3	-349.4	1,233.1	1,211.3	56.722		
3,200.0	3,154.5	3,158.4	3,114.9	14.7	14.4	78.93	1,355.3	-364.5	1,231.6	1,209.2	55.052		
3,227.0	3,181.0	3,178.7	3,134.9	14.8	14.5	78.94	1,356.3	-368.2	1,231.5	1,209.0	54.644		
3,300.0	3,252.6	3,250.4	3,205.3	15.1	14.8	78.96	1,360.2	-381.2	1,231.7	1,208.7	53.435		
3,400.0	3,350.6	3,338.4	3,291.7	15.6	15.2	78.98	1,365.0	-397.3	1,232.0	1,208.3	51.943 ES		
3,500.0	3,448.7	3,415.9	3,367.7	16.0	15.6	79.03	1,370.5	-410.8	1,234.0	1,209.7	50.673		
3,600.0	3,546.8	3,502.9	3,453.2	16.5	16.0	79.12	1,378.1	-425.0	1,237.7	1,212.7	49.450		
3,700.0	3,644.9	3,614.5	3,562.9	16.9	16.5	79.21	1,387.6	-443.7	1,241.1	1,215.4	48.155		
3,800.0	3,743.0	3,721.7	3,668.1	17.4	17.0	79.26	1,396.0	-462.5	1,243.8	1,217.4	46.956		
3,900.0	3,841.0	3,818.0	3,762.6	17.8	17.4	79.29	1,403.3	-479.8	1,246.3	1,219.1	45.871		
4,000.0	3,939.1	3,949.1	3,891.0	18.3	18.0	79.27	1,412.4	-504.7	1,248.0	1,220.0	44.501		
4,100.0	4,037.2	4,030.0	3,970.1	18.7	18.4	79.23	1,417.5	-520.7	1,249.0	1,220.3	43.458		
4,200.0	4,135.3	4,123.0	4,061.0	19.2	18.8	79.19	1,424.3	-538.8	1,251.1	1,221.7	42.496		
4,300.0	4,233.3	4,224.0	4,159.8	19.6	19.3	79.14	1,432.0	-558.8	1,253.4	1,223.3	41.544		
4,400.0	4,331.4	4,318.7	4,252.3	20.1	19.7	79.08	1,439.4	-577.6	1,256.0	1,225.1	40.677		
4,500.0	4,429.5	4,428.6	4,359.8	20.5	20.2	79.05	1,447.5	-598.8	1,258.1	1,226.4	39.766		
4,600.0	4,527.6	4,538.8	4,467.7	21.0	20.7	79.04	1,455.2	-619.4	1,259.9	1,227.5	38.908		
4,700.0	4,625.6	4,652.4	4,579.4	21.4	21.3	79.10	1,461.3	-639.5	1,260.1	1,227.0	38.063		

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Currier BCU 0993-16-06W - Slot 16-06W
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Reference Site:</b>	Currier 0993-16-07 Pad	<b>MD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Currier BCU 0993-16-06W	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	KLXDirectional-AD
<b>Reference Design:</b>	Design #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design											Currier 0993-16-07 Pad - (Offset) Currier Family 16-3 - Wellbore #1 - Wellbore #1	Offset Site Error:	0.0 usft
Survey Program: 130-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		Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance		Separation Factor	Warning	
				Reference (usft)	Offset (usft)				Between Centres (usft)	Between Ellipses (usft)			
4,734.4	4,659.4	4,686.5	4,612.9	21.6	21.4	79.13	1,463.1	-645.3	1,260.1	1,226.7	37.802		
4,800.0	4,723.7	4,746.0	4,671.4	21.9	21.7	79.17	1,466.2	-655.6	1,260.2	1,226.5	37.336		
4,900.0	4,821.8	4,842.3	4,766.1	22.3	22.1	79.21	1,471.9	-672.8	1,260.9	1,226.5	36.628		
5,000.0	4,919.9	4,935.2	4,857.2	22.8	22.5	79.24	1,477.6	-689.6	1,261.9	1,226.8	35.965		
5,100.0	5,017.9	5,031.5	4,951.8	23.3	23.0	79.30	1,484.0	-706.3	1,263.5	1,227.7	35.334		
5,200.0	5,116.0	5,133.9	5,052.5	23.7	23.5	79.36	1,490.8	-724.0	1,265.1	1,228.6	34.709		
5,300.0	5,214.1	5,226.1	5,143.2	24.2	23.9	79.44	1,497.0	-739.5	1,266.8	1,229.7	34.151		
5,400.0	5,312.2	5,321.4	5,237.0	24.6	24.3	79.56	1,504.0	-754.7	1,269.0	1,231.3	33.631		
5,500.0	5,410.6	5,424.4	5,338.6	25.1	24.8	79.70	1,511.4	-770.0	1,271.7	1,233.3	33.096		
5,600.0	5,509.6	5,527.3	5,440.0	25.7	25.2	79.66	1,518.6	-786.0	1,274.8	1,235.7	32.650		
5,700.0	5,609.0	5,634.7	5,545.6	26.2	25.7	79.38	1,526.0	-804.4	1,278.2	1,238.5	32.219		
5,800.0	5,708.7	5,754.2	5,663.2	26.6	26.3	78.90	1,532.5	-824.5	1,280.9	1,240.6	31.785		
5,900.0	5,808.6	5,858.5	5,765.8	27.0	26.7	78.32	1,537.3	-842.1	1,283.5	1,242.7	31.428		
6,000.0	5,908.6	5,954.0	5,859.8	27.1	27.2	3.13	1,541.6	-858.6	1,286.9	1,245.6	31.146		
6,100.0	6,008.6	6,051.1	5,955.5	27.1	27.6	2.42	1,546.2	-874.4	1,290.9	1,249.1	30.893		
6,200.0	6,108.6	6,155.2	6,058.6	27.2	28.1	1.79	1,550.9	-888.5	1,295.0	1,252.7	30.662		
6,300.0	6,208.6	6,251.5	6,154.2	27.2	28.5	1.33	1,555.0	-898.7	1,299.0	1,256.3	30.484		
6,400.0	6,308.6	6,367.0	6,269.2	27.2	29.0	0.90	1,559.5	-908.4	1,302.8	1,259.8	30.320		
6,500.0	6,408.6	6,494.2	6,396.2	27.3	29.5	0.62	1,561.6	-914.7	1,304.2	1,261.0	30.181		
6,600.0	6,508.6	6,589.9	6,491.8	27.3	29.8	0.47	1,562.7	-918.2	1,305.3	1,261.8	30.012		
6,700.0	6,608.6	6,685.6	6,587.4	27.3	30.2	0.33	1,564.1	-921.4	1,306.8	1,263.0	29.854		
6,800.0	6,708.6	6,790.3	6,692.1	27.4	30.6	0.19	1,565.8	-924.4	1,308.3	1,264.2	29.632		
6,900.0	6,808.6	6,894.4	6,801.1	27.4	31.1	0.07	1,566.8	-927.2	1,309.3	1,264.7	29.370		
7,000.0	6,908.6	7,008.5	6,910.3	27.4	31.6	-0.03	1,567.0	-929.5	1,309.5	1,264.5	29.101		
7,100.0	7,008.6	7,111.8	7,013.5	27.5	32.2	-0.11	1,566.6	-931.3	1,309.1	1,263.5	28.734		
7,194.5	7,103.2	7,201.5	7,103.2	27.5	32.9	-0.18	1,566.4	-933.0	1,308.9	1,262.6	28.276		
7,200.0	7,108.6	7,206.6	7,108.4	27.5	32.9	-0.19	1,566.4	-933.1	1,308.9	1,262.6	28.250		
7,300.0	7,208.6	7,301.4	7,203.1	27.5	33.6	-0.28	1,566.6	-935.2	1,309.1	1,262.0	27.791		
7,400.0	7,308.6	7,396.2	7,297.9	27.6	34.3	-0.38	1,567.2	-937.5	1,309.8	1,261.9	27.353		
7,500.0	7,408.6	7,491.0	7,392.7	27.6	35.0	-0.49	1,568.2	-940.1	1,310.8	1,262.1	26.938		
7,600.0	7,508.6	7,585.0	7,486.6	27.6	35.8	-0.61	1,569.5	-942.9	1,312.2	1,262.8	26.544		
7,700.0	7,608.6	7,683.5	7,585.0	27.7	36.5	-0.74	1,571.1	-945.7	1,313.9	1,263.6	26.116		
7,800.0	7,708.6	7,781.2	7,682.7	27.7	37.3	-0.84	1,572.9	-948.1	1,315.8	1,264.6	25.710		
7,900.0	7,808.6	7,878.9	7,780.3	27.7	38.0	-0.92	1,574.9	-950.0	1,317.9	1,265.8	25.322		
8,000.0	7,908.6	7,976.6	7,878.0	27.8	38.8	-0.98	1,577.1	-951.5	1,320.1	1,267.2	24.952		
8,100.0	8,008.6	8,074.6	7,976.0	27.8	39.5	-1.03	1,579.4	-952.6	1,322.5	1,268.7	24.590		
8,200.0	8,108.6	8,175.6	8,076.9	27.9	40.5	-1.07	1,581.8	-953.6	1,324.9	1,270.1	24.144		
8,300.0	8,208.6	8,276.6	8,177.9	27.9	41.4	-1.12	1,584.2	-954.7	1,327.3	1,271.3	23.714		
8,400.0	8,308.6	8,377.5	8,278.8	27.9	42.4	-1.17	1,586.5	-955.9	1,329.6	1,272.5	23.298		
8,500.0	8,408.6	8,478.5	8,379.7	28.0	43.3	-1.23	1,588.7	-957.3	1,331.8	1,273.6	22.896		
8,600.0	8,508.6	8,579.5	8,480.7	28.0	44.3	-1.29	1,590.8	-958.9	1,333.9	1,274.6	22.508		
8,700.0	8,608.6	8,650.0	8,551.2	28.0	44.9	-1.34	1,592.2	-960.0	1,336.3	1,276.2	22.234 SF		
8,757.4	8,666.0	8,650.0	8,551.2	28.1	44.9	-1.34	1,592.2	-960.0	1,340.0	1,279.8	22.272		

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Currier BCU 0993-16-06W - Slot 16-06W
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Reference Site:</b>	Currier 0993-16-07 Pad	<b>MD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Currier BCU 0993-16-06W	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	KLXDirectional-AD
<b>Reference Design:</b>	Design #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design											Offset Site Error:	0.0 usft
Currier 0993-16-07 Pad - Currier 0993-16-01M - OH - Design #3											Offset Well Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Centre +E/-W (usft)	Distance		Separation Factor	Warning
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)				Between Centres (usft)	Between Ellipses (usft)		
0.0	0.0	0.0	0.0	0.0	0.0	43.77	36.1	34.6	50.0			
100.0	100.0	100.0	100.0	0.8	0.8	43.77	36.1	34.6	50.0	48.4	31.565	
200.0	200.0	200.0	200.0	1.4	1.4	43.77	36.1	34.6	50.0	47.2	17.674 CC, ES	
300.0	300.0	298.6	298.6	1.9	2.3	42.58	37.8	34.7	51.4	47.4	12.830	
400.0	400.0	397.0	396.8	2.2	3.4	39.39	42.9	35.2	55.5	50.2	10.410	
500.0	500.0	494.9	494.4	2.4	4.3	109.71	51.2	35.9	62.9	56.6	9.924 SF	
600.0	599.9	592.2	591.0	3.1	5.1	107.18	62.8	36.9	74.4	67.0	10.083	
700.0	699.7	689.1	686.8	4.1	5.8	106.12	77.6	37.7	89.6	81.2	10.758	
800.0	799.2	785.2	781.2	4.9	6.4	105.70	95.2	37.6	108.0	98.8	11.781	
900.0	898.3	880.2	873.9	5.6	6.9	105.65	115.7	36.7	129.5	119.5	13.010	
1,000.0	996.8	974.0	964.9	6.3	7.5	105.79	138.8	34.9	154.1	143.4	14.377	
1,100.0	1,094.9	1,066.6	1,053.8	6.5	8.1	106.12	164.5	32.4	181.4	170.1	15.952	
1,200.0	1,193.0	1,158.1	1,140.8	6.8	8.6	105.84	192.5	29.0	210.8	198.7	17.428	
1,300.0	1,291.1	1,248.3	1,225.7	7.1	9.1	105.09	222.7	25.0	242.2	229.4	18.852	
1,400.0	1,389.1	1,337.0	1,308.2	7.4	9.6	104.06	254.9	20.3	275.6	262.0	20.268	
1,500.0	1,487.2	1,424.2	1,388.3	7.8	10.0	102.87	288.9	14.9	311.1	296.8	21.703	
1,600.0	1,585.3	1,512.8	1,468.7	8.1	10.4	101.60	325.6	8.9	348.5	333.5	23.202	
1,700.0	1,683.4	1,605.1	1,552.3	8.5	10.7	100.47	364.2	2.4	386.4	370.7	24.538	
1,800.0	1,781.4	1,697.4	1,635.9	8.9	11.1	99.54	402.8	-4.0	424.4	407.9	25.729	
1,900.0	1,879.5	1,789.7	1,719.5	9.3	11.4	98.77	441.4	-10.5	462.4	445.2	26.804	
2,000.0	1,977.6	1,882.1	1,803.1	9.7	11.8	98.11	480.0	-16.9	500.5	482.5	27.773	
2,100.0	2,075.7	1,974.4	1,886.7	10.1	12.2	97.55	518.7	-23.4	538.7	519.9	28.651	
2,200.0	2,173.7	2,066.7	1,970.3	10.5	12.5	97.06	557.3	-29.8	576.9	557.3	29.447	
2,300.0	2,271.8	2,159.0	2,053.9	10.9	12.9	96.63	595.9	-36.3	615.1	594.7	30.171	
2,400.0	2,369.9	2,251.3	2,137.5	11.3	13.3	96.25	634.5	-42.7	653.3	632.2	30.830	
2,500.0	2,468.0	2,343.6	2,221.1	11.7	13.8	95.91	673.1	-49.2	691.6	669.6	31.433	
2,600.0	2,566.0	2,435.9	2,304.7	12.1	14.2	95.61	711.8	-55.6	729.9	707.1	31.986	
2,700.0	2,664.1	2,528.2	2,388.3	12.5	14.6	95.34	750.4	-62.1	768.2	744.6	32.492	
2,800.0	2,762.2	2,620.6	2,471.9	13.0	15.1	95.10	789.0	-68.5	806.5	782.1	32.959	
2,900.0	2,860.3	2,712.9	2,555.5	13.4	15.5	94.87	827.6	-75.0	844.9	819.6	33.389	
3,000.0	2,958.3	2,805.2	2,639.1	13.8	16.0	94.67	866.2	-81.4	883.2	857.1	33.786	
3,100.0	3,056.4	2,897.5	2,722.7	14.3	16.5	94.48	904.8	-87.8	921.6	894.6	34.154	
3,200.0	3,154.5	2,989.8	2,806.3	14.7	17.1	94.31	943.5	-94.3	959.9	932.1	34.496	
3,300.0	3,252.6	3,082.1	2,889.9	15.1	17.7	94.15	982.1	-100.7	998.3	969.6	34.813	
3,400.0	3,350.6	3,174.4	2,973.5	15.6	18.3	94.00	1,020.7	-107.2	1,036.7	1,007.1	35.109	
3,500.0	3,448.7	3,266.8	3,057.1	16.0	18.9	93.87	1,059.3	-113.6	1,075.0	1,044.7	35.385	
3,600.0	3,546.8	3,359.1	3,140.7	16.5	19.5	93.74	1,097.9	-120.1	1,113.4	1,082.2	35.643	
3,700.0	3,644.9	3,451.4	3,224.3	16.9	20.2	93.62	1,136.6	-126.5	1,151.8	1,119.7	35.885	
3,800.0	3,743.0	3,543.7	3,307.9	17.4	20.8	93.51	1,175.2	-133.0	1,190.2	1,157.2	36.112	
3,900.0	3,841.0	3,636.0	3,391.5	17.8	21.4	93.40	1,213.8	-139.4	1,228.6	1,194.8	36.325	
4,000.0	3,939.1	3,728.3	3,475.1	18.3	22.1	93.31	1,252.4	-145.9	1,267.0	1,232.3	36.526	
4,100.0	4,037.2	3,820.6	3,558.7	18.7	22.7	93.21	1,291.0	-152.3	1,305.4	1,269.8	36.714	
4,200.0	4,135.3	3,912.9	3,642.3	19.2	23.4	93.13	1,329.7	-158.8	1,343.8	1,307.4	36.893	
4,300.0	4,233.3	4,005.3	3,725.9	19.6	24.1	93.04	1,368.3	-165.2	1,382.2	1,344.9	37.061	
4,400.0	4,331.4	4,097.6	3,809.5	20.1	24.7	92.97	1,406.9	-171.7	1,420.6	1,382.4	37.220	
4,500.0	4,429.5	4,189.9	3,893.1	20.5	25.4	92.89	1,445.5	-178.1	1,459.0	1,420.0	37.371	
4,600.0	4,527.6	4,282.2	3,976.7	21.0	26.0	92.82	1,484.1	-184.6	1,497.4	1,457.5	37.514	
4,700.0	4,625.6	4,374.5	4,060.3	21.4	26.7	92.76	1,522.7	-191.0	1,535.8	1,495.0	37.649	
4,800.0	4,723.7	4,466.8	4,143.9	21.9	27.3	92.69	1,561.4	-197.4	1,574.3	1,532.6	37.778	
4,900.0	4,821.8	4,559.1	4,227.5	22.3	28.0	92.63	1,600.0	-203.9	1,612.7	1,570.1	37.900	
5,000.0	4,919.9	4,651.5	4,311.1	22.8	28.7	92.58	1,638.6	-210.3	1,651.1	1,607.7	38.017	

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Currier BCU 0993-16-06W - Slot 16-06W
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Reference Site:</b>	Currier 0993-16-07 Pad	<b>MD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Currier BCU 0993-16-06W	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	KLXDirectional-AD
<b>Reference Design:</b>	Design #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Currier 0993-16-07 Pad - Currier 0993-16-01M - OH - Design #3	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		
5,100.0	5,017.9	4,743.8	4,394.7	23.3	29.3	92.52	1,677.2	-216.8	1,689.5	1,645.2	38.128			
5,200.0	5,116.0	4,836.1	4,478.3	23.7	30.0	92.47	1,715.8	-223.2	1,727.9	1,682.7	38.234			
5,300.0	5,214.1	4,928.4	4,561.9	24.2	30.6	92.42	1,754.5	-229.7	1,766.4	1,720.3	38.335			
5,400.0	5,312.2	5,029.5	4,653.5	24.6	31.4	92.41	1,796.7	-236.7	1,804.8	1,757.7	38.365			
5,500.0	5,410.6	5,239.7	4,847.4	25.1	32.7	93.05	1,876.6	-250.1	1,839.7	1,790.7	37.510			
5,600.0	5,509.6	5,459.5	5,055.9	25.7	33.9	93.55	1,944.9	-261.5	1,868.3	1,817.5	36.792			
5,700.0	5,609.0	5,687.5	5,277.2	26.2	34.8	93.92	1,998.9	-270.5	1,890.0	1,837.8	36.222			
5,800.0	5,708.7	5,880.1	5,467.1	26.6	35.4	94.18	2,030.6	-275.8	1,904.6	1,851.5	35.873			
5,900.0	5,808.6	6,159.7	5,745.5	27.0	35.9	94.30	2,054.8	-279.8	1,911.8	1,858.1	35.613			
6,000.0	5,908.6	6,322.9	5,908.6	27.1	35.9	19.83	2,056.8	-280.1	1,912.6	1,858.9	35.631			
6,100.0	6,008.6	6,422.9	6,008.6	27.1	36.0	19.83	2,056.8	-280.1	1,912.6	1,858.9	35.581			
6,200.0	6,108.6	6,522.9	6,108.6	27.2	36.0	19.83	2,056.8	-280.1	1,912.6	1,858.8	35.526			
6,300.0	6,208.6	6,622.9	6,208.6	27.2	36.0	19.83	2,056.8	-280.1	1,912.6	1,858.7	35.472			
6,400.0	6,308.6	6,722.9	6,308.6	27.2	36.0	19.83	2,056.8	-280.1	1,912.6	1,858.6	35.417			
6,500.0	6,408.6	6,822.9	6,408.6	27.3	36.1	19.83	2,056.8	-280.1	1,912.6	1,858.5	35.363			
6,600.0	6,508.6	6,922.9	6,508.6	27.3	36.1	19.83	2,056.8	-280.1	1,912.6	1,858.5	35.308			
6,700.0	6,608.6	7,022.9	6,608.6	27.3	36.1	19.83	2,056.8	-280.1	1,912.6	1,858.4	35.253			
6,800.0	6,708.6	7,122.9	6,708.6	27.4	36.1	19.83	2,056.8	-280.1	1,912.6	1,858.3	35.198			
6,900.0	6,808.6	7,222.9	6,808.6	27.4	36.2	19.83	2,056.8	-280.1	1,912.6	1,858.2	35.143			
7,000.0	6,908.6	7,322.9	6,908.6	27.4	36.2	19.83	2,056.8	-280.1	1,912.6	1,858.1	35.088			
7,100.0	7,008.6	7,422.9	7,008.6	27.5	36.2	19.83	2,056.8	-280.1	1,912.6	1,858.0	35.033			
7,200.0	7,108.6	7,522.9	7,108.6	27.5	36.2	19.83	2,056.8	-280.1	1,912.6	1,857.9	34.978			
7,300.0	7,208.6	7,622.9	7,208.6	27.5	36.3	19.83	2,056.8	-280.1	1,912.6	1,857.9	34.923			
7,400.0	7,308.6	7,722.9	7,308.6	27.6	36.3	19.83	2,056.8	-280.1	1,912.6	1,857.8	34.868			
7,500.0	7,408.6	7,822.9	7,408.6	27.6	36.3	19.83	2,056.8	-280.1	1,912.6	1,857.7	34.812			
7,600.0	7,508.6	7,922.9	7,508.6	27.6	36.3	19.83	2,056.8	-280.1	1,912.6	1,857.6	34.757			
7,700.0	7,608.6	8,022.9	7,608.6	27.7	36.4	19.83	2,056.8	-280.1	1,912.6	1,857.5	34.702			
7,800.0	7,708.6	8,122.9	7,708.6	27.7	36.4	19.83	2,056.8	-280.1	1,912.6	1,857.4	34.646			
7,900.0	7,808.6	8,222.9	7,808.6	27.7	36.4	19.83	2,056.8	-280.1	1,912.6	1,857.3	34.591			
8,000.0	7,908.6	8,322.9	7,908.6	27.8	36.4	19.83	2,056.8	-280.1	1,912.6	1,857.2	34.536			
8,100.0	8,008.6	8,422.9	8,008.6	27.8	36.5	19.83	2,056.8	-280.1	1,912.6	1,857.2	34.480			
8,200.0	8,108.6	8,522.9	8,108.6	27.9	36.5	19.83	2,056.8	-280.1	1,912.6	1,857.1	34.425			
8,300.0	8,208.6	8,622.9	8,208.6	27.9	36.5	19.83	2,056.8	-280.1	1,912.6	1,857.0	34.369			
8,400.0	8,308.6	8,722.9	8,308.6	27.9	36.6	19.83	2,056.8	-280.1	1,912.6	1,856.9	34.313			
8,500.0	8,408.6	8,822.9	8,408.6	28.0	36.6	19.83	2,056.8	-280.1	1,912.6	1,856.8	34.258			
8,600.0	8,508.6	8,922.9	8,508.6	28.0	36.6	19.83	2,056.8	-280.1	1,912.6	1,856.7	34.202			
8,700.0	8,608.6	9,022.9	8,608.6	28.0	36.6	19.83	2,056.8	-280.1	1,912.6	1,856.6	34.148			
8,704.0	8,612.6	9,026.8	8,612.6	28.0	36.6	19.83	2,056.8	-280.1	1,912.6	1,856.6	34.146			
8,757.4	8,666.0	9,067.2	8,653.0	28.1	36.7	19.83	2,056.8	-280.1	1,912.7	1,856.6	34.091			

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Currier BCU 0993-16-06W - Slot 16-06W
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Reference Site:</b>	Currier 0993-16-07 Pad	<b>MD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Currier BCU 0993-16-06W	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	KLXDirectional-AD
<b>Reference Design:</b>	Design #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Currier 0993-16-07 Pad - Currier 0993-16-03M - OH - Design #2												Offset Well Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard													
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)	+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	43.78	28.9	27.7	40.0				
100.0	100.0	100.0	100.0	0.8	0.8	43.78	28.9	27.7	40.0	38.4	25.257		
200.0	200.0	200.0	200.0	1.4	1.4	43.78	28.9	27.7	40.0	37.2	14.142		
208.3	208.3	208.3	208.3	1.5	1.4	43.78	28.9	27.7	40.0	37.1	13.809	CC	
300.0	300.0	299.8	299.8	1.9	1.7	43.70	29.0	27.7	40.0	36.5	11.144	ES	
400.0	400.0	399.0	399.0	2.2	2.5	40.94	31.3	27.1	41.4	36.9	9.199		
500.0	500.0	497.9	497.7	2.4	3.6	109.80	37.0	25.9	45.3	39.9	8.351		
600.0	599.9	596.4	595.7	3.1	4.5	105.41	45.9	23.9	52.8	46.3	8.182	SF	
700.0	699.7	694.3	692.8	4.1	5.3	103.09	58.1	21.2	63.8	56.4	8.614		
800.0	799.2	791.4	788.7	4.9	5.9	102.23	73.3	17.8	78.2	69.9	9.468		
900.0	898.3	887.6	883.1	5.6	6.6	102.23	91.6	13.7	95.8	86.8	10.592		
1,000.0	996.8	982.8	975.8	6.3	7.2	102.66	112.6	9.1	116.7	106.9	11.899		
1,100.0	1,094.9	1,078.4	1,068.2	6.5	7.5	103.34	136.4	3.8	140.2	129.9	13.634		
1,200.0	1,193.0	1,175.5	1,162.0	6.8	7.8	103.84	161.0	-1.7	164.1	153.2	15.111		
1,300.0	1,291.1	1,272.6	1,255.8	7.1	8.1	104.21	185.6	-7.2	188.0	176.5	16.369		
1,400.0	1,389.1	1,369.7	1,349.5	7.4	8.5	104.50	210.2	-12.6	211.9	199.7	17.460		
1,500.0	1,487.2	1,466.8	1,443.3	7.8	8.8	104.73	234.8	-18.1	235.8	223.0	18.413		
1,600.0	1,585.3	1,563.9	1,537.1	8.1	9.2	104.91	259.4	-23.6	259.7	246.2	19.249		
1,700.0	1,683.4	1,661.0	1,630.8	8.5	9.5	105.07	284.0	-29.1	283.6	269.4	19.984		
1,800.0	1,781.4	1,758.1	1,724.6	8.9	9.9	105.20	308.6	-34.5	307.5	292.6	20.633		
1,900.0	1,879.5	1,855.2	1,818.4	9.3	10.3	105.31	333.1	-40.0	331.4	315.8	21.210		
2,000.0	1,977.6	1,952.3	1,912.2	9.7	10.7	105.41	357.7	-45.5	355.3	338.9	21.724		
2,100.0	2,075.7	2,049.4	2,005.9	10.1	11.1	105.50	382.3	-50.9	379.2	362.1	22.184		
2,200.0	2,173.7	2,146.5	2,099.7	10.5	11.5	105.57	406.9	-56.4	403.1	385.3	22.598		
2,300.0	2,271.8	2,243.6	2,193.5	10.9	11.9	105.64	431.5	-61.9	427.0	408.4	22.971		
2,400.0	2,369.9	2,340.7	2,287.3	11.3	12.4	105.70	456.1	-67.3	450.9	431.6	23.309		
2,500.0	2,468.0	2,437.8	2,381.0	11.7	12.8	105.75	480.7	-72.8	474.8	454.7	23.616		
2,600.0	2,566.0	2,534.9	2,474.8	12.1	13.2	105.80	505.3	-78.3	498.8	477.9	23.896		
2,700.0	2,664.1	2,632.0	2,568.6	12.5	13.7	105.84	529.9	-83.7	522.7	501.0	24.152		
2,800.0	2,762.2	2,729.1	2,662.4	13.0	14.1	105.88	554.5	-89.2	546.6	524.2	24.387		
2,900.0	2,860.3	2,826.2	2,756.1	13.4	14.5	105.92	579.0	-94.7	570.5	547.3	24.604		
3,000.0	2,958.3	2,923.3	2,849.9	13.8	15.0	105.95	603.6	-100.1	594.4	570.4	24.803		
3,100.0	3,056.4	3,020.4	2,943.7	14.3	15.4	105.98	628.2	-105.6	618.3	593.6	24.988		
3,200.0	3,154.5	3,117.5	3,037.5	14.7	15.9	106.01	652.8	-111.1	642.2	616.7	25.159		
3,300.0	3,252.6	3,214.6	3,131.2	15.1	16.3	106.04	677.4	-116.6	666.1	639.8	25.317		
3,400.0	3,350.6	3,311.7	3,225.0	15.6	16.8	106.06	702.0	-122.0	690.0	663.0	25.465		
3,500.0	3,448.7	3,408.8	3,318.8	16.0	17.2	106.09	726.6	-127.5	714.0	686.1	25.603		
3,600.0	3,546.8	3,505.9	3,412.6	16.5	17.7	106.11	751.2	-133.0	737.9	709.2	25.733		
3,700.0	3,644.9	3,603.0	3,506.3	16.9	18.1	106.13	775.8	-138.4	761.8	732.3	25.854		
3,800.0	3,743.0	3,700.1	3,600.1	17.4	18.6	106.15	800.3	-143.9	785.7	755.4	25.967		
3,900.0	3,841.0	3,797.2	3,693.9	17.8	19.0	106.17	824.9	-149.4	809.6	778.6	26.074		
4,000.0	3,939.1	3,894.3	3,787.7	18.3	19.5	106.18	849.5	-154.8	833.5	801.7	26.174		
4,100.0	4,037.2	3,991.4	3,881.4	18.7	20.0	106.20	874.1	-160.3	857.4	824.8	26.269		
4,200.0	4,135.3	4,088.5	3,975.2	19.2	20.4	106.21	898.7	-165.8	881.4	847.9	26.358		
4,300.0	4,233.3	4,185.6	4,069.0	19.6	20.9	106.23	923.3	-171.2	905.3	871.0	26.442		
4,400.0	4,331.4	4,282.6	4,162.7	20.1	21.4	106.24	947.9	-176.7	929.2	894.1	26.522		
4,500.0	4,429.5	4,379.7	4,256.5	20.5	21.8	106.25	972.5	-182.2	953.1	917.3	26.598		
4,600.0	4,527.6	4,476.8	4,350.3	21.0	22.3	106.27	997.1	-187.7	977.0	940.4	26.670		
4,700.0	4,625.6	4,573.9	4,444.1	21.4	22.8	106.28	1,021.7	-193.1	1,000.9	963.5	26.739		
4,800.0	4,723.7	4,671.0	4,537.8	21.9	23.2	106.29	1,046.2	-198.6	1,024.8	986.6	26.804		
4,900.0	4,821.8	4,768.1	4,631.6	22.3	23.7	106.30	1,070.8	-204.1	1,048.7	1,009.7	26.866		

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Currier BCU 0993-16-06W - Slot 16-06W
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Reference Site:</b>	Currier 0993-16-07 Pad	<b>MD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Currier BCU 0993-16-06W	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	KLXDirectional-AD
<b>Reference Design:</b>	Design #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Currier 0993-16-07 Pad - Currier 0993-16-03M - OH - Design #2												Offset Well Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard													
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis		Highside Toolface (°)	Offset Wellbore +N/-S (usft)	Centre +E/-W (usft)	Distance		Separation Factor	Warning	
				Reference (usft)	Offset (usft)				Between Centres (usft)	Between Ellipses (usft)			
5,000.0	4,919.9	4,865.2	4,725.4	22.8	24.2	106.31	1,095.4	-209.5	1,072.7	1,032.8	26.925		
5,100.0	5,017.9	4,962.3	4,819.2	23.3	24.6	106.32	1,120.0	-215.0	1,096.6	1,055.9	26.981		
5,200.0	5,116.0	5,059.4	4,912.9	23.7	25.1	106.33	1,144.6	-220.5	1,120.5	1,079.0	27.035		
5,300.0	5,214.1	5,156.5	5,006.7	24.2	25.6	106.34	1,169.2	-225.9	1,144.4	1,102.2	27.086		
5,400.0	5,312.2	5,253.6	5,100.5	24.6	26.0	106.37	1,193.8	-231.4	1,168.3	1,125.3	27.142		
5,500.0	5,410.6	5,386.3	5,229.2	25.1	26.7	106.78	1,224.9	-238.3	1,190.4	1,146.3	26.973		
5,600.0	5,509.6	5,525.4	5,365.6	25.7	27.4	107.10	1,251.3	-244.2	1,208.3	1,163.1	26.776		
5,700.0	5,609.0	5,666.2	5,505.0	26.2	28.2	107.35	1,271.4	-248.7	1,221.7	1,175.7	26.582		
5,800.0	5,708.7	5,808.3	5,646.4	26.6	28.8	107.52	1,284.9	-251.7	1,230.7	1,184.1	26.395		
5,900.0	5,808.6	5,951.2	5,789.1	27.0	29.4	107.62	1,291.5	-253.1	1,235.2	1,188.1	26.233		
6,000.0	5,908.6	6,070.8	5,908.6	27.1	29.6	33.14	1,292.2	-253.3	1,235.7	1,188.5	26.167		
6,100.0	6,008.6	6,170.8	6,008.6	27.1	29.7	33.14	1,292.2	-253.3	1,235.7	1,188.4	26.121		
6,200.0	6,108.6	6,270.8	6,108.6	27.2	29.7	33.14	1,292.2	-253.3	1,235.7	1,188.3	26.073		
6,300.0	6,208.6	6,370.8	6,208.6	27.2	29.7	33.14	1,292.2	-253.3	1,235.7	1,188.2	26.025		
6,400.0	6,308.6	6,470.8	6,308.6	27.2	29.8	33.14	1,292.2	-253.3	1,235.7	1,188.1	25.976		
6,500.0	6,408.6	6,570.8	6,408.6	27.3	29.8	33.14	1,292.2	-253.3	1,235.7	1,188.0	25.928		
6,600.0	6,508.6	6,670.8	6,508.6	27.3	29.9	33.14	1,292.2	-253.3	1,235.7	1,188.0	25.879		
6,700.0	6,608.6	6,770.8	6,608.6	27.3	29.9	33.14	1,292.2	-253.3	1,235.7	1,187.9	25.830		
6,800.0	6,708.6	6,870.8	6,708.6	27.4	29.9	33.14	1,292.2	-253.3	1,235.7	1,187.8	25.782		
6,900.0	6,808.6	6,970.8	6,808.6	27.4	30.0	33.14	1,292.2	-253.3	1,235.7	1,187.7	25.733		
7,000.0	6,908.6	7,070.8	6,908.6	27.4	30.0	33.14	1,292.2	-253.3	1,235.7	1,187.6	25.685		
7,100.0	7,008.6	7,170.8	7,008.6	27.5	30.0	33.14	1,292.2	-253.3	1,235.7	1,187.5	25.636		
7,200.0	7,108.6	7,270.8	7,108.6	27.5	30.1	33.14	1,292.2	-253.3	1,235.7	1,187.4	25.587		
7,300.0	7,208.6	7,370.8	7,208.6	27.5	30.1	33.14	1,292.2	-253.3	1,235.7	1,187.3	25.538		
7,400.0	7,308.6	7,470.8	7,308.6	27.6	30.2	33.14	1,292.2	-253.3	1,235.7	1,187.2	25.490		
7,500.0	7,408.6	7,570.8	7,408.6	27.6	30.2	33.14	1,292.2	-253.3	1,235.7	1,187.1	25.441		
7,600.0	7,508.6	7,670.8	7,508.6	27.6	30.2	33.14	1,292.2	-253.3	1,235.7	1,187.0	25.392		
7,700.0	7,608.6	7,770.8	7,608.6	27.7	30.3	33.14	1,292.2	-253.3	1,235.7	1,186.9	25.343		
7,800.0	7,708.6	7,870.8	7,708.6	27.7	30.3	33.14	1,292.2	-253.3	1,235.7	1,186.8	25.295		
7,809.0	7,717.7	7,879.8	7,717.7	27.7	30.3	33.14	1,292.2	-253.3	1,235.7	1,186.8	25.290		
7,900.0	7,808.6	7,952.1	7,790.0	27.7	30.4	33.14	1,292.2	-253.3	1,235.8	1,186.9	25.234		
8,000.0	7,908.6	7,952.1	7,790.0	27.8	30.4	33.14	1,292.2	-253.3	1,241.4	1,192.3	25.267		
8,100.0	8,008.6	7,952.1	7,790.0	27.8	30.4	33.14	1,292.2	-253.3	1,254.9	1,205.8	25.567		
8,200.0	8,108.6	7,952.1	7,790.0	27.9	30.4	33.14	1,292.2	-253.3	1,276.1	1,227.3	26.122		
8,300.0	8,208.6	7,952.1	7,790.0	27.9	30.4	33.14	1,292.2	-253.3	1,304.7	1,256.2	26.919		
8,400.0	8,308.6	7,952.1	7,790.0	27.9	30.4	33.14	1,292.2	-253.3	1,340.1	1,292.2	27.939		
8,500.0	8,408.6	7,952.1	7,790.0	28.0	30.4	33.14	1,292.2	-253.3	1,381.9	1,334.5	29.165		
8,600.0	8,508.6	7,952.1	7,790.0	28.0	30.4	33.14	1,292.2	-253.3	1,429.5	1,382.7	30.575		
8,700.0	8,608.6	7,952.1	7,790.0	28.0	30.4	33.14	1,292.2	-253.3	1,482.3	1,436.2	32.149		
8,757.4	8,666.0	7,952.1	7,790.0	28.1	30.4	33.14	1,292.2	-253.3	1,514.7	1,469.0	33.122		

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Currier BCU 0993-16-06W - Slot 16-06W
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Reference Site:</b>	Currier 0993-16-07 Pad	<b>MD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Currier BCU 0993-16-06W	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	KLXDirectional-AD
<b>Reference Design:</b>	Design #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design											Offset Site Error:	0.0 usft
Currier 0993-16-07 Pad - Currier 0993-16-04M - OH - Design #4											Offset Well Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis		Highside Toolface (°)	Offset Wellbore +N/-S (usft)	Centre +E/-W (usft)	Distance		Separation Factor	Warning
				Reference (usft)	Offset (usft)				Between Centres (usft)	Between Ellipses (usft)		
0.0	0.0	0.0	0.0	0.0	0.0	43.76	21.7	20.7	30.0			
100.0	100.0	100.0	100.0	0.8	0.8	43.76	21.7	20.7	30.0	28.4	18.936	
200.0	200.0	200.0	200.0	1.4	1.4	43.76	21.7	20.7	30.0	27.2	10.603	
210.0	210.0	210.0	210.0	1.5	1.4	43.76	21.7	20.7	30.0	27.1	10.329	CC
300.0	300.0	299.9	299.9	1.9	1.7	43.37	21.8	20.6	30.0	26.5	8.524	
400.0	400.0	399.6	399.6	2.2	2.5	37.98	24.3	18.9	30.8	26.5	7.165	ES
500.0	500.0	499.0	498.8	2.4	3.6	102.32	29.5	15.3	33.3	28.2	6.570	SF
600.0	599.9	597.7	596.9	3.1	4.0	94.60	37.7	10.3	39.3	33.5	6.751	
700.0	699.7	695.8	694.2	4.1	4.7	91.75	49.2	5.2	49.1	42.4	7.299	
800.0	799.2	793.1	790.3	4.9	5.4	91.94	63.9	0.1	62.3	54.7	8.207	
900.0	898.3	889.5	884.9	5.6	6.1	93.57	81.6	-5.2	78.7	70.3	9.335	
1,000.0	996.8	987.1	980.3	6.3	6.6	96.04	101.8	-10.5	97.6	88.5	10.769	
1,100.0	1,094.9	1,085.1	1,075.9	6.5	6.9	99.08	122.0	-15.9	117.0	107.5	12.293	
1,200.0	1,193.0	1,183.0	1,171.6	6.8	7.2	101.35	142.3	-21.3	136.8	126.7	13.558	
1,300.0	1,291.1	1,280.9	1,267.2	7.1	7.5	103.05	162.6	-26.7	156.6	145.9	14.642	
1,400.0	1,389.1	1,378.8	1,362.9	7.4	7.9	104.36	182.8	-32.1	176.6	165.2	15.584	
1,500.0	1,487.2	1,476.7	1,458.5	7.8	8.3	105.41	203.1	-37.5	196.6	184.6	16.406	
1,600.0	1,585.3	1,574.6	1,554.2	8.1	8.6	106.27	223.3	-42.8	216.7	204.0	17.128	
1,700.0	1,683.4	1,672.5	1,649.8	8.5	9.0	106.98	243.6	-48.2	236.8	223.5	17.765	
1,800.0	1,781.4	1,770.5	1,745.4	8.9	9.4	107.58	263.9	-53.6	257.0	243.0	18.330	
1,900.0	1,879.5	1,868.4	1,841.1	9.3	9.8	108.09	284.1	-59.0	277.2	262.4	18.833	
2,000.0	1,977.6	1,966.3	1,936.7	9.7	10.2	108.53	304.4	-64.4	297.3	281.9	19.283	
2,100.0	2,075.7	2,064.2	2,032.4	10.1	10.6	108.92	324.7	-69.8	317.6	301.4	19.688	
2,200.0	2,173.7	2,162.1	2,128.0	10.5	11.0	109.25	344.9	-75.2	337.8	320.9	20.053	
2,300.0	2,271.8	2,260.0	2,223.7	10.9	11.5	109.56	365.2	-80.6	358.0	340.5	20.385	
2,400.0	2,369.9	2,358.0	2,319.3	11.3	11.9	109.83	385.4	-85.9	378.3	360.0	20.686	
2,500.0	2,468.0	2,455.9	2,415.0	11.7	12.3	110.07	405.7	-91.3	398.5	379.5	20.961	
2,600.0	2,566.0	2,553.8	2,510.6	12.1	12.7	110.29	426.0	-96.7	418.8	399.0	21.213	
2,700.0	2,664.1	2,651.7	2,606.2	12.5	13.2	110.48	446.2	-102.1	439.0	418.5	21.444	
2,800.0	2,762.2	2,749.6	2,701.9	13.0	13.6	110.66	466.5	-107.5	459.3	438.1	21.657	
2,900.0	2,860.3	2,847.5	2,797.5	13.4	14.0	110.83	486.8	-112.9	479.6	457.6	21.854	
3,000.0	2,958.3	2,945.5	2,893.2	13.8	14.5	110.98	507.0	-118.3	499.8	477.1	22.037	
3,100.0	3,056.4	3,043.4	2,988.8	14.3	14.9	111.12	527.3	-123.7	520.1	496.7	22.207	
3,200.0	3,154.5	3,141.3	3,084.5	14.7	15.3	111.25	547.5	-129.0	540.4	516.2	22.364	
3,300.0	3,252.6	3,239.2	3,180.1	15.1	15.8	111.37	567.8	-134.4	560.7	535.8	22.511	
3,400.0	3,350.6	3,337.1	3,275.8	15.6	16.2	111.48	588.1	-139.8	580.9	555.3	22.649	
3,500.0	3,448.7	3,435.0	3,371.4	16.0	16.7	111.59	608.3	-145.2	601.2	574.8	22.778	
3,600.0	3,546.8	3,532.9	3,467.0	16.5	17.1	111.69	628.6	-150.6	621.5	594.4	22.899	
3,700.0	3,644.9	3,630.9	3,562.7	16.9	17.6	111.78	648.9	-156.0	641.8	613.9	23.013	
3,800.0	3,743.0	3,728.8	3,658.3	17.4	18.0	111.86	669.1	-161.4	662.1	633.5	23.120	
3,900.0	3,841.0	3,826.7	3,754.0	17.8	18.5	111.94	689.4	-166.8	682.4	653.0	23.221	
4,000.0	3,939.1	3,924.6	3,849.6	18.3	18.9	112.02	709.7	-172.1	702.7	672.5	23.316	
4,100.0	4,037.2	4,022.5	3,945.3	18.7	19.4	112.09	729.9	-177.5	723.0	692.1	23.406	
4,200.0	4,135.3	4,120.4	4,040.9	19.2	19.8	112.16	750.2	-182.9	743.3	711.6	23.491	
4,300.0	4,233.3	4,218.4	4,136.5	19.6	20.3	112.22	770.4	-188.3	763.6	731.2	23.572	
4,400.0	4,331.4	4,316.3	4,232.2	20.1	20.7	112.28	790.7	-193.7	783.8	750.7	23.649	
4,500.0	4,429.5	4,414.2	4,327.8	20.5	21.2	112.34	811.0	-199.1	804.1	770.2	23.722	
4,600.0	4,527.6	4,512.1	4,423.5	21.0	21.6	112.40	831.2	-204.5	824.4	789.8	23.792	
4,700.0	4,625.6	4,610.0	4,519.1	21.4	22.1	112.45	851.5	-209.9	844.7	809.3	23.858	
4,800.0	4,723.7	4,707.9	4,614.8	21.9	22.6	112.50	871.8	-215.2	865.0	828.9	23.922	
4,900.0	4,821.8	4,805.8	4,710.4	22.3	23.0	112.55	892.0	-220.6	885.3	848.4	23.982	

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Currier BCU 0993-16-06W - Slot 16-06W
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Reference Site:</b>	Currier 0993-16-07 Pad	<b>MD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Currier BCU 0993-16-06W	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	KLXDirectional-AD
<b>Reference Design:</b>	Design #3	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> Currier 0993-16-07 Pad - Currier 0993-16-04M - OH - Design #4												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		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance		Separation Factor	Warning	
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)				Between Centres (usft)	Between Ellipses (usft)			
5,000.0	4,919.9	4,903.8	4,806.1	22.8	23.5	112.59	912.3	-226.0	905.6	868.0	24.040		
5,100.0	5,017.9	5,001.7	4,901.7	23.3	23.9	112.64	932.5	-231.4	925.9	887.5	24.095		
5,200.0	5,116.0	5,099.6	4,997.3	23.7	24.4	112.68	952.8	-236.8	946.2	907.1	24.148		
5,300.0	5,214.1	5,197.5	5,093.0	24.2	24.8	112.72	973.1	-242.2	966.5	926.6	24.198		
5,400.0	5,312.2	5,295.4	5,188.6	24.6	25.3	112.77	993.3	-247.6	986.8	946.1	24.249		
5,500.0	5,410.6	5,404.0	5,294.8	25.1	25.8	113.08	1,015.4	-253.4	1,006.2	964.7	24.221		
5,600.0	5,509.6	5,528.6	5,417.4	25.7	26.4	113.29	1,036.5	-259.0	1,022.2	979.8	24.108		
5,700.0	5,609.0	5,654.3	5,542.1	26.2	27.1	113.46	1,052.5	-263.3	1,034.2	991.1	23.968		
5,800.0	5,708.7	5,780.9	5,668.2	26.6	27.7	113.57	1,063.3	-266.2	1,042.3	998.5	23.816		
5,900.0	5,808.6	5,908.1	5,795.2	27.0	28.2	113.64	1,068.7	-267.6	1,046.4	1,002.2	23.665		
6,000.0	5,908.6	6,021.5	5,908.6	27.1	28.3	39.15	1,069.4	-267.8	1,047.0	1,002.6	23.610		
6,100.0	6,008.6	6,121.5	6,008.6	27.1	28.4	39.15	1,069.4	-267.8	1,047.0	1,002.5	23.565		
6,200.0	6,108.6	6,221.5	6,108.6	27.2	28.4	39.15	1,069.4	-267.8	1,047.0	1,002.4	23.517		
6,300.0	6,208.6	6,321.5	6,208.6	27.2	28.4	39.15	1,069.4	-267.8	1,047.0	1,002.4	23.468		
6,400.0	6,308.6	6,421.5	6,308.6	27.2	28.5	39.15	1,069.4	-267.8	1,047.0	1,002.3	23.420		
6,500.0	6,408.6	6,521.5	6,408.6	27.3	28.5	39.15	1,069.4	-267.8	1,047.0	1,002.2	23.372		
6,600.0	6,508.6	6,621.5	6,508.6	27.3	28.6	39.15	1,069.4	-267.8	1,047.0	1,002.1	23.323		
6,700.0	6,608.6	6,721.5	6,608.6	27.3	28.6	39.15	1,069.4	-267.8	1,047.0	1,002.0	23.275		
6,800.0	6,708.6	6,821.5	6,708.6	27.4	28.6	39.15	1,069.4	-267.8	1,047.0	1,001.9	23.226		
6,900.0	6,808.6	6,921.5	6,808.6	27.4	28.7	39.15	1,069.4	-267.8	1,047.0	1,001.8	23.178		
7,000.0	6,908.6	7,021.5	6,908.6	27.4	28.7	39.15	1,069.4	-267.8	1,047.0	1,001.7	23.129		
7,100.0	7,008.6	7,121.5	7,008.6	27.5	28.8	39.15	1,069.4	-267.8	1,047.0	1,001.6	23.081		
7,200.0	7,108.6	7,221.5	7,108.6	27.5	28.8	39.15	1,069.4	-267.8	1,047.0	1,001.5	23.032		
7,300.0	7,208.6	7,321.5	7,208.6	27.5	28.8	39.15	1,069.4	-267.8	1,047.0	1,001.4	22.984		
7,400.0	7,308.6	7,421.5	7,308.6	27.6	28.9	39.15	1,069.4	-267.8	1,047.0	1,001.3	22.935		
7,500.0	7,408.6	7,521.5	7,408.6	27.6	28.9	39.15	1,069.4	-267.8	1,047.0	1,001.2	22.887		
7,600.0	7,508.6	7,621.5	7,508.6	27.6	29.0	39.15	1,069.4	-267.8	1,047.0	1,001.1	22.838		
7,700.0	7,608.6	7,721.5	7,608.6	27.7	29.0	39.15	1,069.4	-267.8	1,047.0	1,001.0	22.790		
7,800.0	7,708.6	7,821.5	7,708.6	27.7	29.0	39.15	1,069.4	-267.8	1,047.0	1,000.9	22.742		
7,900.0	7,808.6	7,921.5	7,808.6	27.7	29.1	39.15	1,069.4	-267.8	1,047.0	1,000.8	22.693		
8,000.0	7,908.6	8,021.5	7,908.6	27.8	29.1	39.15	1,069.4	-267.8	1,047.0	1,000.7	22.645		
8,100.0	8,008.6	8,121.5	8,008.6	27.8	29.2	39.15	1,069.4	-267.8	1,047.0	1,000.6	22.597		
8,200.0	8,108.6	8,221.5	8,108.6	27.9	29.2	39.15	1,069.4	-267.8	1,047.0	1,000.5	22.548		
8,300.0	8,208.6	8,321.5	8,208.6	27.9	29.3	39.15	1,069.4	-267.8	1,047.0	1,000.4	22.500		
8,400.0	8,308.6	8,421.5	8,308.6	27.9	29.3	39.15	1,069.4	-267.8	1,047.0	1,000.3	22.452		
8,500.0	8,408.6	8,521.5	8,408.6	28.0	29.3	39.15	1,069.4	-267.8	1,047.0	1,000.2	22.404		
8,600.0	8,508.6	8,621.5	8,508.6	28.0	29.4	39.15	1,069.4	-267.8	1,047.0	1,000.1	22.355		
8,700.0	8,608.6	8,721.5	8,608.6	28.0	29.4	39.15	1,069.4	-267.8	1,047.0	1,000.0	22.308		
8,706.0	8,614.6	8,727.5	8,614.6	28.0	29.4	39.15	1,069.4	-267.8	1,047.0	1,000.0	22.306		
8,757.4	8,666.0	8,769.9	8,657.0	28.1	29.4	39.15	1,069.4	-267.8	1,047.0	1,000.0	22.286		

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Currier BCU 0993-16-06W - Slot 16-06W
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Reference Site:</b>	Currier 0993-16-07 Pad	<b>MD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Currier BCU 0993-16-06W	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	KLXDirectional-AD
<b>Reference Design:</b>	Design #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design											Offset Site Error:	0.0 usft
Currier 0993-16-07 Pad - Currier BCU 0993-16-05M - OH - Design #2											Offset Well Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis 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	43.84	7.2	6.9	10.0			
100.0	100.0	100.0	100.0	0.8	0.8	43.84	7.2	6.9	10.0	8.4	6.321	
200.0	200.0	200.0	200.0	1.4	1.4	43.84	7.2	6.9	10.0	7.2	3.539	
300.0	300.0	300.0	300.0	1.9	1.9	43.84	7.2	6.9	10.0	6.3	2.681	
400.0	400.0	400.0	400.0	2.2	2.2	43.84	7.2	6.9	10.0	5.5	2.242	Level 1, CC
404.4	404.4	404.4	404.4	2.2	2.2	118.35	7.2	6.9	10.0	5.5	2.231	Level 1
500.0	500.0	500.0	500.0	2.4	2.6	119.73	7.2	6.9	10.1	5.2	2.055	Level 1, ES, SF
600.0	599.9	599.9	599.9	3.1	2.8	132.81	7.2	6.9	12.0	6.3	2.109	Level 1
700.0	699.7	699.7	699.7	4.1	3.0	148.92	7.3	6.9	17.2	10.4	2.530	
800.0	799.2	799.4	799.4	4.9	3.5	155.07	9.6	6.1	25.8	18.0	3.275	
900.0	898.3	899.0	898.8	5.6	4.4	154.86	15.1	4.1	37.1	28.3	4.210	
1,000.0	996.8	998.3	997.6	6.3	5.2	152.52	23.8	0.9	50.9	41.3	5.307	
1,100.0	1,094.9	1,097.2	1,095.8	6.5	5.8	149.28	35.7	-3.4	66.4	56.5	6.703	
1,200.0	1,193.0	1,195.9	1,193.4	6.8	6.2	146.15	49.2	-8.3	82.1	71.6	7.771	
1,300.0	1,291.1	1,294.6	1,291.1	7.1	6.5	144.04	62.6	-13.2	98.0	87.0	8.896	
1,400.0	1,389.1	1,393.3	1,388.7	7.4	6.8	142.51	76.0	-18.0	113.9	102.4	9.918	
1,500.0	1,487.2	1,492.0	1,486.3	7.8	7.1	141.36	89.4	-22.9	129.9	117.9	10.837	
1,600.0	1,585.3	1,590.7	1,584.0	8.1	7.4	140.46	102.9	-27.8	146.0	133.4	11.665	
1,700.0	1,683.4	1,689.3	1,681.6	8.5	7.7	139.74	116.3	-32.6	162.0	149.0	12.412	
1,800.0	1,781.4	1,788.0	1,779.3	8.9	8.0	139.15	129.7	-37.5	178.1	164.5	13.088	
1,900.0	1,879.5	1,886.7	1,876.9	9.3	8.4	138.65	143.2	-42.4	194.2	180.1	13.700	
2,000.0	1,977.6	1,985.4	1,974.5	9.7	8.7	138.24	156.6	-47.3	210.4	195.6	14.257	
2,100.0	2,075.7	2,084.1	2,072.2	10.1	9.0	137.88	170.0	-52.1	226.5	211.1	14.765	
2,200.0	2,173.7	2,182.7	2,169.8	10.5	9.4	137.57	183.4	-57.0	242.6	226.7	15.229	
2,300.0	2,271.8	2,281.4	2,267.5	10.9	9.8	137.30	196.9	-61.9	258.8	242.2	15.654	
2,400.0	2,369.9	2,380.1	2,365.1	11.3	10.1	137.06	210.3	-66.8	274.9	257.8	16.045	
2,500.0	2,468.0	2,478.8	2,462.8	11.7	10.5	136.85	223.7	-71.6	291.1	273.3	16.405	
2,600.0	2,566.0	2,577.5	2,560.4	12.1	10.9	136.65	237.2	-76.5	307.2	288.9	16.738	
2,700.0	2,664.1	2,676.1	2,658.0	12.5	11.3	136.48	250.6	-81.4	323.4	304.4	17.046	
2,800.0	2,762.2	2,774.8	2,755.7	13.0	11.7	136.33	264.0	-86.2	339.5	319.9	17.332	
2,900.0	2,860.3	2,873.5	2,853.3	13.4	12.1	136.19	277.4	-91.1	355.7	335.5	17.598	
3,000.0	2,958.3	2,972.2	2,951.0	13.8	12.4	136.06	290.9	-96.0	371.9	351.0	17.846	
3,100.0	3,056.4	3,070.9	3,048.6	14.3	12.8	135.94	304.3	-100.9	388.0	366.6	18.077	
3,200.0	3,154.5	3,169.6	3,146.3	14.7	13.2	135.83	317.7	-105.7	404.2	382.1	18.294	
3,300.0	3,252.6	3,268.2	3,243.9	15.1	13.6	135.73	331.2	-110.6	420.4	397.6	18.497	
3,400.0	3,350.6	3,366.9	3,341.5	15.6	14.0	135.64	344.6	-115.5	436.5	413.2	18.687	
3,500.0	3,448.7	3,465.6	3,439.2	16.0	14.4	135.55	358.0	-120.4	452.7	428.7	18.867	
3,600.0	3,546.8	3,564.3	3,536.8	16.5	14.8	135.47	371.4	-125.2	468.9	444.3	19.036	
3,700.0	3,644.9	3,663.0	3,634.5	16.9	15.3	135.40	384.9	-130.1	485.1	459.8	19.195	
3,800.0	3,743.0	3,761.6	3,732.1	17.4	15.7	135.33	398.3	-135.0	501.2	475.3	19.345	
3,900.0	3,841.0	3,860.3	3,829.7	17.8	16.1	135.26	411.7	-139.8	517.4	490.9	19.488	
4,000.0	3,939.1	3,959.0	3,927.4	18.3	16.5	135.20	425.2	-144.7	533.6	506.4	19.623	
4,100.0	4,037.2	4,057.7	4,025.0	18.7	16.9	135.14	438.6	-149.6	549.8	521.9	19.751	
4,200.0	4,135.3	4,156.4	4,122.7	19.2	17.3	135.09	452.0	-154.5	565.9	537.5	19.872	
4,300.0	4,233.3	4,255.1	4,220.3	19.6	17.7	135.03	465.4	-159.3	582.1	553.0	19.988	
4,400.0	4,331.4	4,353.7	4,318.0	20.1	18.1	134.98	478.9	-164.2	598.3	568.5	20.098	
4,500.0	4,429.5	4,452.4	4,415.6	20.5	18.5	134.94	492.3	-169.1	614.5	584.1	20.203	
4,600.0	4,527.6	4,551.1	4,513.2	21.0	19.0	134.89	505.7	-174.0	630.6	599.6	20.303	
4,700.0	4,625.6	4,649.8	4,610.9	21.4	19.4	134.85	519.2	-178.8	646.8	615.1	20.399	
4,800.0	4,723.7	4,748.5	4,708.5	21.9	19.8	134.81	532.6	-183.7	663.0	630.6	20.490	
4,900.0	4,821.8	4,847.1	4,806.2	22.3	20.2	134.77	546.0	-188.6	679.2	646.2	20.577	

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Currier BCU 0993-16-06W - Slot 16-06W
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Reference Site:</b>	Currier 0993-16-07 Pad	<b>MD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Currier BCU 0993-16-06W	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	KLXDirectional-AD
<b>Reference Design:</b>	Design #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Currier 0993-16-07 Pad - Currier BCU 0993-16-05M - OH - Design #2												Offset Well Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard													
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Centre +E/-W (usft)	Distance		Separation Factor	Warning	
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)				Between Centres (usft)	Between Ellipses (usft)			
5,000.0	4,919.9	4,945.8	4,903.8	22.8	20.6	134.74	559.4	-193.4	695.4	661.7	20.661		
5,100.0	5,017.9	5,044.5	5,001.5	23.3	21.0	134.70	572.9	-198.3	711.5	677.2	20.741		
5,200.0	5,116.0	5,143.2	5,099.1	23.7	21.5	134.67	586.3	-203.2	727.7	692.8	20.818		
5,300.0	5,214.1	5,241.9	5,196.7	24.2	21.9	134.64	599.7	-208.1	743.9	708.3	20.892		
5,400.0	5,312.2	5,340.5	5,294.4	24.6	22.3	134.62	613.2	-212.9	760.1	723.8	20.964		
5,500.0	5,410.6	5,439.4	5,392.2	25.1	22.7	134.70	626.6	-217.8	774.9	738.0	20.975		
5,600.0	5,509.6	5,540.5	5,492.3	25.7	23.2	134.59	640.1	-222.7	787.3	749.7	20.906		
5,700.0	5,609.0	5,644.9	5,596.0	26.2	23.8	134.47	651.1	-226.7	796.8	758.4	20.771		
5,800.0	5,708.7	5,749.8	5,700.6	26.6	24.2	134.39	658.5	-229.4	803.2	764.3	20.661		
5,900.0	5,808.6	5,855.0	5,805.7	27.0	24.7	134.35	662.4	-230.8	806.5	767.3	20.526		
6,000.0	5,908.6	5,957.9	5,908.6	27.1	24.9	59.84	663.0	-231.0	807.1	767.6	20.457		
6,100.0	6,008.6	6,057.9	6,008.6	27.1	24.9	59.84	663.0	-231.0	807.1	767.5	20.406		
6,200.0	6,108.6	6,157.9	6,108.6	27.2	25.0	59.84	663.0	-231.0	807.1	767.4	20.352		
6,300.0	6,208.6	6,257.9	6,208.6	27.2	25.0	59.84	663.0	-231.0	807.1	767.3	20.299		
6,400.0	6,308.6	6,357.9	6,308.6	27.2	25.0	59.84	663.0	-231.0	807.1	767.2	20.245		
6,500.0	6,408.6	6,457.9	6,408.6	27.3	25.1	59.84	663.0	-231.0	807.1	767.1	20.192		
6,600.0	6,508.6	6,557.9	6,508.6	27.3	25.1	59.84	663.0	-231.0	807.1	767.0	20.139		
6,700.0	6,608.6	6,657.9	6,608.6	27.3	25.2	59.84	663.0	-231.0	807.1	766.9	20.086		
6,800.0	6,708.6	6,757.9	6,708.6	27.4	25.2	59.84	663.0	-231.0	807.1	766.8	20.032		
6,900.0	6,808.6	6,857.9	6,808.6	27.4	25.3	59.84	663.0	-231.0	807.1	766.7	19.979		
7,000.0	6,908.6	6,957.9	6,908.6	27.4	25.3	59.84	663.0	-231.0	807.1	766.6	19.927		
7,100.0	7,008.6	7,057.9	7,008.6	27.5	25.4	59.84	663.0	-231.0	807.1	766.5	19.874		
7,200.0	7,108.6	7,157.9	7,108.6	27.5	25.4	59.84	663.0	-231.0	807.1	766.3	19.821		
7,300.0	7,208.6	7,257.9	7,208.6	27.5	25.5	59.84	663.0	-231.0	807.1	766.2	19.769		
7,400.0	7,308.6	7,357.9	7,308.6	27.6	25.5	59.84	663.0	-231.0	807.1	766.1	19.716		
7,500.0	7,408.6	7,457.9	7,408.6	27.6	25.6	59.84	663.0	-231.0	807.1	766.0	19.664		
7,600.0	7,508.6	7,557.9	7,508.6	27.6	25.6	59.84	663.0	-231.0	807.1	765.9	19.612		
7,700.0	7,608.6	7,657.9	7,608.6	27.7	25.6	59.84	663.0	-231.0	807.1	765.8	19.560		
7,800.0	7,708.6	7,757.9	7,708.6	27.7	25.7	59.84	663.0	-231.0	807.1	765.7	19.508		
7,814.3	7,722.9	7,772.2	7,722.9	27.7	25.7	59.84	663.0	-231.0	807.1	765.7	19.500		
7,900.0	7,808.6	7,851.3	7,802.0	27.7	25.7	59.84	663.0	-231.0	807.1	765.6	19.474		
8,000.0	7,908.6	7,851.3	7,802.0	27.8	25.7	59.84	663.0	-231.0	814.1	773.1	19.859		
8,100.0	8,008.6	7,851.3	7,802.0	27.8	25.7	59.84	663.0	-231.0	833.1	792.8	20.700		
8,200.0	8,108.6	7,851.3	7,802.0	27.9	25.7	59.84	663.0	-231.0	863.4	824.1	21.969		
8,300.0	8,208.6	7,851.3	7,802.0	27.9	25.7	59.84	663.0	-231.0	903.7	865.5	23.624		
8,400.0	8,308.6	7,851.3	7,802.0	27.9	25.7	59.84	663.0	-231.0	952.9	915.7	25.610		
8,500.0	8,408.6	7,851.3	7,802.0	28.0	25.7	59.84	663.0	-231.0	1,009.6	973.4	27.866		
8,600.0	8,508.6	7,851.3	7,802.0	28.0	25.7	59.84	663.0	-231.0	1,072.7	1,037.3	30.333		
8,700.0	8,608.6	7,851.3	7,802.0	28.0	25.7	59.84	663.0	-231.0	1,141.1	1,106.4	32.952		
8,757.4	8,666.0	7,851.3	7,802.0	28.1	25.7	59.84	663.0	-231.0	1,182.3	1,148.0	34.510		

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Currier BCU 0993-16-06W - Slot 16-06W
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Reference Site:</b>	Currier 0993-16-07 Pad	<b>MD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Currier BCU 0993-16-06W	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	KLXDirectional-AD
<b>Reference Design:</b>	Design #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design											Currier 0993-16-07 Pad - Currier BCU 0993-16-07M - OH - Design #2	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 +N/-S (usft)	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	-136.28	-7.2	-6.9	10.0				
100.0	100.0	100.0	100.0	0.8	0.8	-136.28	-7.2	-6.9	10.0	8.4	6.308		
200.0	200.0	200.0	200.0	1.4	1.4	-136.28	-7.2	-6.9	10.0	7.2	3.532		
300.0	300.0	300.0	300.0	1.9	1.9	-136.28	-7.2	-6.9	10.0	6.3	2.675		
400.0	400.0	400.0	400.0	2.2	2.2	-136.28	-7.2	-6.9	10.0	5.5	2.237	Level 1, CC, ES	
500.0	500.0	499.7	499.7	2.4	2.8	-56.55	-7.2	-8.6	11.1	6.1	2.227	Level 1	
600.0	599.9	599.4	599.2	3.1	3.8	-53.06	-7.2	-13.8	13.3	7.1	2.144	Level 1, SF	
700.0	699.7	698.9	698.4	4.1	4.0	-54.44	-7.6	-22.3	16.3	9.4	2.347	Level 1	
800.0	799.2	798.1	797.0	4.9	4.4	-65.25	-10.5	-32.6	20.8	13.5	2.832		
900.0	898.3	897.2	895.1	5.6	4.7	-79.04	-16.2	-44.6	28.1	20.7	3.805		
1,000.0	996.8	996.5	993.5	6.3	5.0	-91.98	-22.5	-56.9	37.1	29.4	4.827		
1,100.0	1,094.9	1,095.6	1,091.7	6.5	5.3	-102.62	-28.8	-69.2	47.6	39.4	5.763		
1,200.0	1,193.0	1,194.7	1,189.8	6.8	5.6	-109.39	-35.0	-81.5	59.3	50.3	6.580		
1,300.0	1,291.1	1,293.9	1,288.0	7.1	6.0	-113.90	-41.3	-93.8	71.5	61.7	7.336		
1,400.0	1,389.1	1,393.0	1,386.1	7.4	6.3	-117.08	-47.6	-106.0	84.0	73.5	8.039		
1,500.0	1,487.2	1,492.1	1,484.3	7.8	6.7	-119.44	-53.8	-118.3	96.7	85.5	8.687		
1,600.0	1,585.3	1,591.2	1,582.5	8.1	7.0	-121.25	-60.1	-130.6	109.5	97.7	9.282		
1,700.0	1,683.4	1,690.3	1,680.6	8.5	7.4	-122.67	-66.4	-142.9	122.4	109.9	9.827		
1,800.0	1,781.4	1,789.5	1,778.8	8.9	7.8	-123.83	-72.6	-155.2	135.3	122.2	10.327		
1,900.0	1,879.5	1,888.6	1,876.9	9.3	8.2	-124.78	-78.9	-167.5	148.3	134.6	10.785		
2,000.0	1,977.6	1,987.7	1,975.1	9.7	8.6	-125.58	-85.2	-179.8	161.4	147.0	11.205		
2,100.0	2,075.7	2,087.3	2,073.8	10.1	9.0	-126.59	-91.0	-191.2	174.3	159.3	11.576		
2,200.0	2,173.7	2,186.8	2,172.8	10.5	9.6	-128.49	-95.4	-199.7	187.1	171.4	11.881		
2,300.0	2,271.8	2,285.8	2,271.7	10.9	10.2	-131.12	-98.1	-205.1	200.0	183.5	12.148		
2,400.0	2,369.9	2,384.1	2,370.0	11.3	10.7	-134.33	-99.3	-207.5	213.3	196.1	12.398		
2,500.0	2,468.0	2,482.1	2,468.0	11.7	10.8	-137.78	-99.4	-207.6	227.5	209.6	12.663		
2,600.0	2,566.0	2,580.2	2,566.0	12.1	10.9	-140.86	-99.4	-207.6	242.5	223.7	12.956		
2,700.0	2,664.1	2,678.3	2,664.1	12.5	10.9	-143.58	-99.4	-207.6	258.0	238.6	13.268		
2,800.0	2,762.2	2,776.3	2,762.2	13.0	11.0	-145.99	-99.4	-207.6	274.1	253.9	13.593		
2,900.0	2,860.3	2,874.4	2,860.3	13.4	11.1	-148.13	-99.4	-207.6	290.5	269.7	13.928		
3,000.0	2,958.3	2,972.5	2,958.3	13.8	11.1	-150.04	-99.4	-207.6	307.4	285.8	14.268		
3,100.0	3,056.4	3,070.6	3,056.4	14.3	11.2	-151.76	-99.4	-207.6	324.5	302.3	14.610		
3,200.0	3,154.5	3,168.6	3,154.5	14.7	11.3	-153.30	-99.4	-207.6	341.9	319.0	14.952		
3,300.0	3,252.6	3,266.7	3,252.6	15.1	11.3	-154.69	-99.4	-207.6	359.5	336.0	15.293		
3,400.0	3,350.6	3,364.8	3,350.6	15.6	11.4	-155.96	-99.4	-207.6	377.3	353.2	15.630		
3,500.0	3,448.7	3,462.9	3,448.7	16.0	11.4	-157.11	-99.4	-207.6	395.3	370.5	15.962		
3,600.0	3,546.8	3,561.0	3,546.8	16.5	11.5	-158.16	-99.4	-207.6	413.4	388.0	16.289		
3,700.0	3,644.9	3,659.0	3,644.9	16.9	11.6	-159.12	-99.4	-207.6	431.6	405.6	16.610		
3,800.0	3,743.0	3,757.1	3,743.0	17.4	11.6	-160.00	-99.4	-207.6	449.9	423.4	16.925		
3,900.0	3,841.0	3,855.2	3,841.0	17.8	11.7	-160.82	-99.4	-207.6	468.4	441.2	17.232		
4,000.0	3,939.1	3,953.3	3,939.1	18.3	11.8	-161.57	-99.4	-207.6	486.9	459.1	17.533		
4,100.0	4,037.2	4,051.3	4,037.2	18.7	11.9	-162.27	-99.4	-207.6	505.5	477.1	17.827		
4,200.0	4,135.3	4,149.4	4,135.3	19.2	11.9	-162.92	-99.4	-207.6	524.1	495.2	18.113		
4,300.0	4,233.3	4,247.5	4,233.3	19.6	12.0	-163.52	-99.4	-207.6	542.9	513.4	18.392		
4,400.0	4,331.4	4,345.6	4,331.4	20.1	12.1	-164.09	-99.4	-207.6	561.6	531.6	18.665		
4,500.0	4,429.5	4,443.6	4,429.5	20.5	12.1	-164.61	-99.4	-207.6	580.5	549.8	18.930		
4,600.0	4,527.6	4,541.7	4,527.6	21.0	12.2	-165.11	-99.4	-207.6	599.3	568.1	19.189		
4,700.0	4,625.6	4,639.8	4,625.6	21.4	12.3	-165.57	-99.4	-207.6	618.2	586.4	19.441		
4,800.0	4,723.7	4,737.9	4,723.7	21.9	12.3	-166.01	-99.4	-207.6	637.2	604.8	19.686		
4,900.0	4,821.8	4,835.9	4,821.8	22.3	12.4	-166.42	-99.4	-207.6	656.2	623.2	19.925		
5,000.0	4,919.9	4,934.0	4,919.9	22.8	12.5	-166.81	-99.4	-207.6	675.2	641.7	20.158		

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Currier BCU 0993-16-06W - Slot 16-06W
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Reference Site:</b>	Currier 0993-16-07 Pad	<b>MD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Currier BCU 0993-16-06W	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	KLXDirectional-AD
<b>Reference Design:</b>	Design #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Currier 0993-16-07 Pad - Currier BCU 0993-16-07M - OH - Design #2												Offset Well Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard													
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore +N/-S (usft)	Centre +E/-W (usft)	Distance		Separation Factor	Warning	
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)				Between Centres (usft)	Between Ellipses (usft)			
5,100.0	5,017.9	5,032.1	5,017.9	23.3	12.5	-167.18	-99.4	-207.6	694.2	660.2	20.384		
5,200.0	5,116.0	5,130.2	5,116.0	23.7	12.6	-167.52	-99.4	-207.6	713.3	678.7	20.605		
5,300.0	5,214.1	5,228.2	5,214.1	24.2	12.7	-167.85	-99.4	-207.6	732.4	697.2	20.820		
5,400.0	5,312.2	5,326.3	5,312.2	24.6	12.7	-168.17	-99.4	-207.6	751.5	715.8	21.032		
5,500.0	5,410.6	5,424.7	5,410.6	25.1	12.8	-168.51	-99.4	-207.6	768.8	732.4	21.154		
5,600.0	5,509.6	5,523.7	5,509.6	25.7	12.9	-168.77	-99.4	-207.6	782.7	745.8	21.182		
5,700.0	5,609.0	5,623.1	5,609.0	26.2	13.0	-168.96	-99.4	-207.6	793.3	755.7	21.136		
5,800.0	5,708.7	5,722.9	5,708.7	26.6	13.0	-169.09	-99.4	-207.6	800.4	762.3	21.025		
5,900.0	5,808.6	5,822.8	5,808.6	27.0	13.1	-169.16	-99.4	-207.6	804.1	765.6	20.860		
6,000.0	5,908.6	5,922.8	5,908.6	27.1	13.2	116.33	-99.4	-207.6	804.7	766.0	20.778		
6,100.0	6,008.6	6,022.8	6,008.6	27.1	13.2	116.33	-99.4	-207.6	804.7	765.9	20.720		
6,200.0	6,108.6	6,122.8	6,108.6	27.2	13.3	116.33	-99.4	-207.6	804.7	765.7	20.661		
6,300.0	6,208.6	6,222.8	6,208.6	27.2	13.4	116.33	-99.4	-207.6	804.7	765.6	20.601		
6,400.0	6,308.6	6,322.8	6,308.6	27.2	13.5	116.33	-99.4	-207.6	804.7	765.5	20.542		
6,500.0	6,408.6	6,422.8	6,408.6	27.3	13.5	116.33	-99.4	-207.6	804.7	765.4	20.483		
6,600.0	6,508.6	6,522.8	6,508.6	27.3	13.6	116.33	-99.4	-207.6	804.7	765.3	20.424		
6,700.0	6,608.6	6,622.8	6,608.6	27.3	13.7	116.33	-99.4	-207.6	804.7	765.2	20.366		
6,800.0	6,708.6	6,722.8	6,708.6	27.4	13.7	116.33	-99.4	-207.6	804.7	765.1	20.307		
6,900.0	6,808.6	6,822.8	6,808.6	27.4	13.8	116.33	-99.4	-207.6	804.7	765.0	20.249		
7,000.0	6,908.6	6,922.8	6,908.6	27.4	13.9	116.33	-99.4	-207.6	804.7	764.8	20.191		
7,100.0	7,008.6	7,022.8	7,008.6	27.5	14.0	116.33	-99.4	-207.6	804.7	764.7	20.133		
7,200.0	7,108.6	7,122.8	7,108.6	27.5	14.0	116.33	-99.4	-207.6	804.7	764.6	20.076		
7,300.0	7,208.6	7,222.8	7,208.6	27.5	14.1	116.33	-99.4	-207.6	804.7	764.5	20.019		
7,400.0	7,308.6	7,322.8	7,308.6	27.6	14.2	116.33	-99.4	-207.6	804.7	764.4	19.962		
7,500.0	7,408.6	7,422.8	7,408.6	27.6	14.2	116.33	-99.4	-207.6	804.7	764.3	19.905		
7,600.0	7,508.6	7,522.8	7,508.6	27.6	14.3	116.33	-99.4	-207.6	804.7	764.2	19.848		
7,700.0	7,608.6	7,622.8	7,608.6	27.7	14.4	116.33	-99.4	-207.6	804.7	764.0	19.792		
7,800.0	7,708.6	7,722.8	7,708.6	27.7	14.5	116.33	-99.4	-207.6	804.7	763.9	19.735		
7,900.0	7,808.6	7,822.8	7,808.6	27.7	14.5	116.33	-99.4	-207.6	804.7	763.8	19.683		
8,000.0	7,908.6	7,838.2	7,824.0	27.8	14.5	116.33	-99.4	-207.6	809.1	768.8	20.057		
8,100.0	8,008.6	7,838.2	7,824.0	27.8	14.5	116.33	-99.4	-207.6	825.6	786.2	20.934		
8,200.0	8,108.6	7,838.2	7,824.0	27.9	14.5	116.33	-99.4	-207.6	853.6	815.2	22.254		
8,300.0	8,208.6	7,838.2	7,824.0	27.9	14.5	116.33	-99.4	-207.6	891.9	854.7	23.979		
8,400.0	8,308.6	7,838.2	7,824.0	27.9	14.5	116.33	-99.4	-207.6	939.4	903.3	26.058		
8,500.0	8,408.6	7,838.2	7,824.0	28.0	14.5	116.33	-99.4	-207.6	994.7	959.7	28.429		
8,600.0	8,508.6	7,838.2	7,824.0	28.0	14.5	116.33	-99.4	-207.6	1,056.5	1,022.5	31.028		
8,700.0	8,608.6	7,838.2	7,824.0	28.0	14.5	116.33	-99.4	-207.6	1,123.9	1,090.7	33.794		
8,757.4	8,666.0	7,838.2	7,824.0	28.1	14.5	116.33	-99.4	-207.6	1,164.7	1,131.8	35.439		

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Currier BCU 0993-16-06W - Slot 16-06W
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Reference Site:</b>	Currier 0993-16-07 Pad	<b>MD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Currier BCU 0993-16-06W	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	KLXDirectional-AD
<b>Reference Design:</b>	Design #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design											Currier 0993-16-07 Pad - Currier BCU 0993-16-08M - OH - Design #3	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 +N/-S (usft)	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	-136.45	-21.7	-20.6	29.9				
100.0	100.0	100.0	100.0	0.8	0.8	-136.45	-21.7	-20.6	29.9	28.3	18.882		
200.0	200.0	200.0	200.0	1.4	1.4	-136.45	-21.7	-20.6	29.9	27.1	10.573		
300.0	300.0	300.0	300.0	1.9	1.9	-136.45	-21.7	-20.6	29.9	26.2	8.008		
400.0	400.0	400.0	400.0	2.2	2.2	-136.45	-21.7	-20.6	29.9	25.4	6.696		
500.0	500.0	500.0	500.0	2.4	2.6	-62.42	-21.7	-20.6	29.8	24.8	6.032		
600.0	599.9	599.9	599.9	3.1	2.8	-68.06	-21.7	-20.6	28.5	22.9	5.131		
700.0	699.7	699.7	699.7	4.1	3.1	-81.37	-21.7	-20.6	26.7	20.7	4.418		
744.0	743.6	743.6	743.6	4.4	3.2	-90.00	-21.7	-20.6	26.4	20.2	4.233	CC, ES	
800.0	799.2	799.2	799.2	4.9	3.3	-102.89	-21.7	-20.6	27.1	20.5	4.090	SF	
900.0	898.3	898.3	898.3	5.6	3.6	-126.35	-21.7	-20.6	32.9	25.0	4.165		
1,000.0	996.8	996.8	996.8	6.3	3.8	-143.77	-21.7	-20.6	45.2	35.9	4.853		
1,100.0	1,094.9	1,095.6	1,095.5	6.5	4.1	-153.01	-22.5	-22.0	61.5	51.4	6.115		
1,200.0	1,193.0	1,195.0	1,194.9	6.8	4.8	-156.02	-25.0	-26.4	77.5	66.8	7.249		
1,300.0	1,291.1	1,293.3	1,292.8	7.1	5.0	-156.08	-29.3	-33.2	92.8	81.7	8.352		
1,400.0	1,389.1	1,389.0	1,388.1	7.4	5.2	-155.00	-36.5	-39.7	110.2	98.4	9.369		
1,500.0	1,487.2	1,483.7	1,482.0	7.8	5.6	-153.41	-46.5	-45.3	130.3	117.8	10.441		
1,600.0	1,585.3	1,580.4	1,577.8	8.1	6.0	-151.75	-58.9	-50.5	152.2	139.2	11.682		
1,700.0	1,683.4	1,677.9	1,674.3	8.5	6.2	-150.50	-71.4	-55.7	174.4	160.9	12.905		
1,800.0	1,781.4	1,775.4	1,770.8	8.9	6.4	-149.53	-84.0	-60.9	196.6	182.6	14.037		
1,900.0	1,879.5	1,872.8	1,867.3	9.3	6.7	-148.75	-96.5	-66.2	218.8	204.3	15.069		
2,000.0	1,977.6	1,970.3	1,963.9	9.7	7.0	-148.12	-109.0	-71.4	241.1	226.0	16.010		
2,100.0	2,075.7	2,067.7	2,060.4	10.1	7.3	-147.59	-121.6	-76.6	263.4	247.8	16.868		
2,200.0	2,173.7	2,165.2	2,156.9	10.5	7.6	-147.15	-134.1	-81.8	285.7	269.5	17.651		
2,300.0	2,271.8	2,262.6	2,253.4	10.9	7.9	-146.77	-146.6	-87.0	308.0	291.3	18.366		
2,400.0	2,369.9	2,360.1	2,349.9	11.3	8.2	-146.44	-159.1	-92.2	330.4	313.0	19.020		
2,500.0	2,468.0	2,457.6	2,446.4	11.7	8.6	-146.16	-171.7	-97.5	352.7	334.7	19.620		
2,600.0	2,566.0	2,555.0	2,542.9	12.1	8.9	-145.90	-184.2	-102.7	375.1	356.5	20.170		
2,700.0	2,664.1	2,652.5	2,639.4	12.5	9.3	-145.68	-196.7	-107.9	397.4	378.2	20.677		
2,800.0	2,762.2	2,749.9	2,735.9	13.0	9.6	-145.48	-209.2	-113.1	419.8	399.9	21.143		
2,900.0	2,860.3	2,847.4	2,832.4	13.4	10.0	-145.30	-221.8	-118.3	442.2	421.7	21.574		
3,000.0	2,958.3	2,944.8	2,928.9	13.8	10.4	-145.14	-234.3	-123.5	464.5	443.4	21.972		
3,100.0	3,056.4	3,042.3	3,025.4	14.3	10.8	-144.99	-246.8	-128.8	486.9	465.1	22.341		
3,200.0	3,154.5	3,139.8	3,121.9	14.7	11.1	-144.86	-259.4	-134.0	509.3	486.8	22.683		
3,300.0	3,252.6	3,237.2	3,218.4	15.1	11.5	-144.73	-271.9	-139.2	531.7	508.6	23.002		
3,400.0	3,350.6	3,334.7	3,315.0	15.6	11.9	-144.62	-284.4	-144.4	554.1	530.3	23.298		
3,500.0	3,448.7	3,432.1	3,411.5	16.0	12.3	-144.52	-296.9	-149.6	576.4	552.0	23.575		
3,600.0	3,546.8	3,529.6	3,508.0	16.5	12.7	-144.42	-309.5	-154.8	598.8	573.7	23.834		
3,700.0	3,644.9	3,627.0	3,604.5	16.9	13.1	-144.33	-322.0	-160.1	621.2	595.4	24.076		
3,800.0	3,743.0	3,724.5	3,701.0	17.4	13.5	-144.25	-334.5	-165.3	643.6	617.1	24.304		
3,900.0	3,841.0	3,822.0	3,797.5	17.8	13.9	-144.17	-347.1	-170.5	666.0	638.8	24.517		
4,000.0	3,939.1	3,919.4	3,894.0	18.3	14.3	-144.10	-359.6	-175.7	688.4	660.6	24.718		
4,100.0	4,037.2	4,016.9	3,990.5	18.7	14.7	-144.03	-372.1	-180.9	710.8	682.3	24.907		
4,200.0	4,135.3	4,114.3	4,087.0	19.2	15.1	-143.96	-384.6	-186.1	733.2	704.0	25.091		
4,300.0	4,233.3	4,222.6	4,194.4	19.6	15.5	-143.99	-397.3	-191.4	755.0	725.1	25.203		
4,400.0	4,331.4	4,334.6	4,305.9	20.1	16.1	-144.29	-406.6	-195.3	775.1	744.4	25.223		
4,500.0	4,429.5	4,447.0	4,418.1	20.5	16.6	-144.86	-411.9	-197.5	793.5	762.0	25.219		
4,600.0	4,527.6	4,556.4	4,527.6	21.0	16.9	-145.66	-413.1	-198.0	810.2	778.1	25.278		
4,700.0	4,625.6	4,654.5	4,625.6	21.4	16.9	-146.42	-413.1	-198.0	826.5	794.0	25.420		
4,800.0	4,723.7	4,752.5	4,723.7	21.9	16.9	-147.15	-413.1	-198.0	842.9	809.9	25.551		
4,900.0	4,821.8	4,850.6	4,821.8	22.3	17.0	-147.85	-413.1	-198.0	859.5	826.0	25.678		

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Currier BCU 0993-16-06W - Slot 16-06W
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Reference Site:</b>	Currier 0993-16-07 Pad	<b>MD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Currier BCU 0993-16-06W	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	KLXDirectional-AD
<b>Reference Design:</b>	Design #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Currier 0993-16-07 Pad - Currier BCU 0993-16-08M - OH - Design #3												Offset Well Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard													
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore +N/-S (usft)	Centre +E/-W (usft)	Distance		Separation Factor	Warning	
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)				Between Centres (usft)	Between Ellipses (usft)			
5,000.0	4,919.9	4,948.7	4,919.9	22.8	17.0	-148.52	-413.1	-198.0	876.1	842.2	25.803		
5,100.0	5,017.9	5,046.8	5,017.9	23.3	17.0	-149.17	-413.1	-198.0	892.9	858.5	25.925		
5,200.0	5,116.0	5,144.8	5,116.0	23.7	17.1	-149.80	-413.1	-198.0	909.8	874.9	26.044		
5,300.0	5,214.1	5,242.9	5,214.1	24.2	17.1	-150.41	-413.1	-198.0	926.8	891.4	26.162		
5,400.0	5,312.2	5,341.0	5,312.2	24.6	17.1	-151.00	-413.1	-198.0	943.9	908.0	26.279		
5,500.0	5,410.6	5,439.4	5,410.6	25.1	17.2	-151.65	-413.1	-198.0	959.5	923.0	26.311		
5,600.0	5,509.6	5,538.4	5,509.6	25.7	17.2	-152.17	-413.1	-198.0	972.0	935.0	26.269		
5,700.0	5,609.0	5,637.8	5,609.0	26.2	17.3	-152.55	-413.1	-198.0	981.6	944.1	26.170		
5,800.0	5,708.7	5,737.5	5,708.7	26.6	17.3	-152.80	-413.1	-198.0	988.0	950.1	26.020		
5,900.0	5,808.6	5,837.5	5,808.6	27.0	17.3	-152.93	-413.1	-198.0	991.4	953.0	25.830		
6,000.0	5,908.6	5,937.5	5,908.6	27.1	17.4	132.54	-413.1	-198.0	991.9	953.4	25.746		
6,100.0	6,008.6	6,037.5	6,008.6	27.1	17.4	132.54	-413.1	-198.0	991.9	953.3	25.690		
6,200.0	6,108.6	6,137.5	6,108.6	27.2	17.5	132.54	-413.1	-198.0	991.9	953.2	25.632		
6,300.0	6,208.6	6,237.5	6,208.6	27.2	17.5	132.54	-413.1	-198.0	991.9	953.1	25.573		
6,400.0	6,308.6	6,337.5	6,308.6	27.2	17.5	132.54	-413.1	-198.0	991.9	953.0	25.515		
6,500.0	6,408.6	6,437.5	6,408.6	27.3	17.6	132.54	-413.1	-198.0	991.9	953.0	25.457		
6,600.0	6,508.6	6,537.5	6,508.6	27.3	17.6	132.54	-413.1	-198.0	991.9	952.9	25.398		
6,700.0	6,608.6	6,637.5	6,608.6	27.3	17.7	132.54	-413.1	-198.0	991.9	952.8	25.340		
6,800.0	6,708.6	6,737.5	6,708.6	27.4	17.7	132.54	-413.1	-198.0	991.9	952.7	25.281		
6,900.0	6,808.6	6,837.5	6,808.6	27.4	17.7	132.54	-413.1	-198.0	991.9	952.6	25.222		
7,000.0	6,908.6	6,937.5	6,908.6	27.4	17.8	132.54	-413.1	-198.0	991.9	952.5	25.164		
7,100.0	7,008.6	7,037.5	7,008.6	27.5	17.8	132.54	-413.1	-198.0	991.9	952.4	25.105		
7,200.0	7,108.6	7,137.5	7,108.6	27.5	17.9	132.54	-413.1	-198.0	991.9	952.3	25.046		
7,300.0	7,208.6	7,237.5	7,208.6	27.5	17.9	132.54	-413.1	-198.0	991.9	952.2	24.988		
7,400.0	7,308.6	7,337.5	7,308.6	27.6	18.0	132.54	-413.1	-198.0	991.9	952.1	24.929		
7,500.0	7,408.6	7,437.5	7,408.6	27.6	18.0	132.54	-413.1	-198.0	991.9	952.0	24.870		
7,600.0	7,508.6	7,537.5	7,508.6	27.6	18.0	132.54	-413.1	-198.0	991.9	951.9	24.811		
7,700.0	7,608.6	7,637.5	7,608.6	27.7	18.1	132.54	-413.1	-198.0	991.9	951.8	24.753		
7,800.0	7,708.6	7,737.5	7,708.6	27.7	18.1	132.54	-413.1	-198.0	991.9	951.7	24.694		
7,900.0	7,808.6	7,837.5	7,808.6	27.7	18.2	132.54	-413.1	-198.0	991.9	951.7	24.635		
8,000.0	7,908.6	7,937.5	7,908.6	27.8	18.2	132.54	-413.1	-198.0	991.9	951.6	24.576		
8,100.0	8,008.6	8,037.5	8,008.6	27.8	18.3	132.54	-413.1	-198.0	991.9	951.5	24.518		
8,200.0	8,108.6	8,137.5	8,108.6	27.9	18.3	132.54	-413.1	-198.0	991.9	951.4	24.459		
8,300.0	8,208.6	8,237.5	8,208.6	27.9	18.4	132.54	-413.1	-198.0	991.9	951.3	24.400		
8,400.0	8,308.6	8,337.5	8,308.6	27.9	18.4	132.54	-413.1	-198.0	991.9	951.2	24.341		
8,500.0	8,408.6	8,437.5	8,408.6	28.0	18.5	132.54	-413.1	-198.0	991.9	951.1	24.283		
8,600.0	8,508.6	8,537.5	8,508.6	28.0	18.5	132.54	-413.1	-198.0	991.9	951.0	24.224		
8,700.0	8,608.6	8,637.5	8,608.6	28.0	18.6	132.54	-413.1	-198.0	991.9	950.9	24.166		
8,757.4	8,666.0	8,694.8	8,666.0	28.1	18.6	132.54	-413.1	-198.0	991.9	950.8	24.137		

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Currier BCU 0993-16-06W - Slot 16-06W
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Reference Site:</b>	Currier 0993-16-07 Pad	<b>MD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Currier BCU 0993-16-06W	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	KLXDirectional-AD
<b>Reference Design:</b>	Design #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design											Offset Site Error:	0.0 usft
Currier 0993-16-07 Pad - Currier BCU 0993-16-09M - OH - Design #2											Offset Well Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore +N/-S (usft)	Centre +E/-W (usft)	Distance		Separation Factor	Warning
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)				Between Centres (usft)	Between Ellipses (usft)		
0.0	0.0	0.0	0.0	0.0	0.0	178.74	-14.1	0.3	14.1			
100.0	100.0	100.0	100.0	0.8	0.8	178.74	-14.1	0.3	14.1	12.6	8.927	
200.0	200.0	200.0	200.0	1.4	1.4	178.74	-14.1	0.3	14.1	11.3	4.999	
202.4	202.4	202.4	202.4	1.4	1.4	178.74	-14.1	0.3	14.1	11.3	4.966	CC
300.0	300.0	299.9	299.9	1.9	1.7	178.91	-14.3	0.3	14.3	10.8	4.041	ES
400.0	400.0	399.3	399.3	2.2	2.5	-178.52	-17.0	-0.4	17.0	12.3	3.610	SF
500.0	500.0	498.4	498.2	2.4	3.6	-101.05	-22.9	-2.0	23.1	17.2	3.888	
600.0	599.9	597.0	596.2	3.1	4.5	-103.11	-32.1	-4.5	33.3	26.2	4.709	
700.0	699.7	695.0	693.4	4.1	4.9	-107.17	-44.4	-7.8	47.6	39.8	6.132	
800.0	799.2	793.5	791.0	4.9	5.1	-111.90	-57.6	-11.3	64.1	55.7	7.666	
900.0	898.3	891.6	888.1	5.6	5.4	-116.77	-70.8	-14.8	82.4	73.3	9.100	
1,000.0	996.8	989.1	984.7	6.3	5.7	-121.40	-83.8	-18.3	102.8	93.0	10.483	
1,100.0	1,094.9	1,086.2	1,080.9	6.5	6.1	-125.59	-96.9	-21.7	125.2	114.8	12.038	
1,200.0	1,193.0	1,183.3	1,177.1	6.8	6.4	-128.59	-109.9	-25.2	148.0	137.0	13.430	
1,300.0	1,291.1	1,280.4	1,273.2	7.1	6.7	-130.78	-122.9	-28.7	171.2	159.5	14.684	
1,400.0	1,389.1	1,377.5	1,369.4	7.4	7.1	-132.46	-135.9	-32.1	194.5	182.2	15.816	
1,500.0	1,487.2	1,474.6	1,465.6	7.8	7.5	-133.77	-148.9	-35.6	218.0	205.0	16.836	
1,600.0	1,585.3	1,571.7	1,561.7	8.1	7.8	-134.83	-161.9	-39.1	241.5	227.9	17.755	
1,700.0	1,683.4	1,668.8	1,657.9	8.5	8.2	-135.70	-174.9	-42.5	265.1	250.9	18.584	
1,800.0	1,781.4	1,765.9	1,754.1	8.9	8.6	-136.43	-187.9	-46.0	288.8	273.9	19.333	
1,900.0	1,879.5	1,863.0	1,850.2	9.3	8.9	-137.05	-201.0	-49.5	312.5	296.9	20.013	
2,000.0	1,977.6	1,960.1	1,946.4	9.7	9.3	-137.58	-214.0	-52.9	336.2	319.9	20.630	
2,100.0	2,075.7	2,057.2	2,042.5	10.1	9.7	-138.04	-227.0	-56.4	360.0	343.0	21.193	
2,200.0	2,173.7	2,154.3	2,138.7	10.5	10.1	-138.44	-240.0	-59.9	383.7	366.1	21.707	
2,300.0	2,271.8	2,251.4	2,234.9	10.9	10.5	-138.80	-253.0	-63.3	407.5	389.1	22.178	
2,400.0	2,369.9	2,348.5	2,331.0	11.3	10.9	-139.12	-266.0	-66.8	431.3	412.2	22.611	
2,500.0	2,468.0	2,445.6	2,427.2	11.7	11.3	-139.40	-279.0	-70.3	455.1	435.3	23.010	
2,600.0	2,566.0	2,542.7	2,523.4	12.1	11.7	-139.66	-292.0	-73.7	478.9	458.5	23.379	
2,700.0	2,664.1	2,639.8	2,619.5	12.5	12.1	-139.89	-305.0	-77.2	502.8	481.6	23.720	
2,800.0	2,762.2	2,736.9	2,715.7	13.0	12.5	-140.10	-318.1	-80.7	526.6	504.7	24.037	
2,900.0	2,860.3	2,834.0	2,811.8	13.4	12.9	-140.29	-331.1	-84.1	550.4	527.8	24.331	
3,000.0	2,958.3	2,931.2	2,908.0	13.8	13.3	-140.47	-344.1	-87.6	574.3	550.9	24.606	
3,100.0	3,056.4	3,028.3	3,004.2	14.3	13.7	-140.63	-357.1	-91.1	598.1	574.1	24.862	
3,200.0	3,154.5	3,125.4	3,100.3	14.7	14.1	-140.78	-370.1	-94.5	622.0	597.2	25.102	
3,300.0	3,252.6	3,222.5	3,196.5	15.1	14.5	-140.92	-383.1	-98.0	645.9	620.3	25.327	
3,400.0	3,350.6	3,319.6	3,292.7	15.6	14.9	-141.05	-396.1	-101.5	669.7	643.5	25.538	
3,500.0	3,448.7	3,416.7	3,388.8	16.0	15.3	-141.17	-409.1	-104.9	693.6	666.6	25.737	
3,600.0	3,546.8	3,513.8	3,485.0	16.5	15.7	-141.28	-422.2	-108.4	717.4	689.8	25.924	
3,700.0	3,644.9	3,610.9	3,581.1	16.9	16.1	-141.39	-435.2	-111.9	741.3	712.9	26.100	
3,800.0	3,743.0	3,708.0	3,677.3	17.4	16.5	-141.49	-448.2	-115.3	765.2	736.1	26.267	
3,900.0	3,841.0	3,805.1	3,773.5	17.8	17.0	-141.58	-461.2	-118.8	789.1	759.2	26.425	
4,000.0	3,939.1	3,902.2	3,869.6	18.3	17.4	-141.67	-474.2	-122.3	812.9	782.3	26.575	
4,100.0	4,037.2	3,999.3	3,965.8	18.7	17.8	-141.75	-487.2	-125.7	836.8	805.5	26.717	
4,200.0	4,135.3	4,096.4	4,062.0	19.2	18.2	-141.83	-500.2	-129.2	860.7	828.6	26.851	
4,300.0	4,233.3	4,193.5	4,158.1	19.6	18.6	-141.90	-513.2	-132.7	884.6	851.8	26.980	
4,400.0	4,331.4	4,290.6	4,254.3	20.1	19.0	-141.97	-526.3	-136.1	908.4	874.9	27.102	
4,500.0	4,429.5	4,387.7	4,350.4	20.5	19.4	-142.03	-539.3	-139.6	932.3	898.1	27.218	
4,600.0	4,527.6	4,484.8	4,446.6	21.0	19.8	-142.10	-552.3	-143.1	956.2	921.2	27.329	
4,700.0	4,625.6	4,581.9	4,542.8	21.4	20.2	-142.16	-565.3	-146.5	980.1	944.4	27.435	
4,800.0	4,723.7	4,679.0	4,638.9	21.9	20.7	-142.21	-578.3	-150.0	1,004.0	967.5	27.536	
4,900.0	4,821.8	4,776.1	4,735.1	22.3	21.1	-142.27	-591.3	-153.5	1,027.9	990.7	27.633	

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Currier BCU 0993-16-06W - Slot 16-06W
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Reference Site:</b>	Currier 0993-16-07 Pad	<b>MD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Currier BCU 0993-16-06W	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	KLXDirectional-AD
<b>Reference Design:</b>	Design #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design											Offset Site Error:	0.0 usft
Currier 0993-16-07 Pad - Currier BCU 0993-16-09M - OH - Design #2											Offset Well Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance		Separation Factor	Warning
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)				Between Centres (usft)	Between Ellipses (usft)		
5,000.0	4,919.9	4,873.2	4,831.3	22.8	21.5	-142.32	-604.3	-156.9	1,051.8	1,013.8	27.726	
5,100.0	5,017.9	4,970.3	4,927.4	23.3	21.9	-142.37	-617.3	-160.4	1,075.6	1,037.0	27.815	
5,200.0	5,116.0	5,067.4	5,023.6	23.7	22.3	-142.42	-630.3	-163.9	1,099.5	1,060.1	27.900	
5,300.0	5,214.1	5,164.5	5,119.7	24.2	22.7	-142.46	-643.4	-167.3	1,123.4	1,083.3	27.982	
5,400.0	5,312.2	5,261.6	5,215.9	24.6	23.1	-142.52	-656.4	-170.8	1,147.3	1,106.4	28.063	
5,500.0	5,410.6	5,359.0	5,312.4	25.1	23.6	-142.78	-669.4	-174.3	1,169.7	1,128.1	28.070	
5,600.0	5,509.6	5,457.0	5,409.5	25.7	24.0	-142.90	-682.6	-177.8	1,189.4	1,147.0	28.025	
5,700.0	5,609.0	5,555.5	5,507.0	26.2	24.4	-142.89	-695.8	-181.3	1,206.4	1,163.2	27.942	
5,800.0	5,708.7	5,688.1	5,638.7	26.6	25.0	-142.74	-710.7	-185.3	1,219.3	1,175.2	27.655	
5,900.0	5,808.6	5,823.2	5,773.5	27.0	25.6	-142.63	-719.9	-187.7	1,226.6	1,181.7	27.313	
6,000.0	5,908.6	5,959.0	5,909.2	27.1	26.0	142.94	-722.9	-188.5	1,228.5	1,183.2	27.116	
6,032.8	5,941.4	5,991.2	5,941.4	27.1	26.0	142.94	-722.9	-188.5	1,228.5	1,183.2	27.112	
6,100.0	6,008.6	6,058.5	6,008.6	27.1	26.0	142.94	-722.9	-188.5	1,228.5	1,183.2	27.094	
6,200.0	6,108.6	6,158.5	6,108.6	27.2	26.0	142.94	-722.9	-188.5	1,228.5	1,183.1	27.062	
6,300.0	6,208.6	6,258.5	6,208.6	27.2	26.0	142.94	-722.9	-188.5	1,228.5	1,183.1	27.029	
6,400.0	6,308.6	6,358.5	6,308.6	27.2	26.0	142.94	-722.9	-188.5	1,228.5	1,183.0	26.995	
6,500.0	6,408.6	6,458.5	6,408.6	27.3	26.1	142.94	-722.9	-188.5	1,228.5	1,183.0	26.962	
6,600.0	6,508.6	6,558.5	6,508.6	27.3	26.1	142.94	-722.9	-188.5	1,228.5	1,182.9	26.928	
6,700.0	6,608.6	6,658.5	6,608.6	27.3	26.1	142.94	-722.9	-188.5	1,228.5	1,182.8	26.894	
6,800.0	6,708.6	6,758.5	6,708.6	27.4	26.1	142.94	-722.9	-188.5	1,228.5	1,182.8	26.860	
6,900.0	6,808.6	6,858.5	6,808.6	27.4	26.1	142.94	-722.9	-188.5	1,228.5	1,182.7	26.825	
7,000.0	6,908.6	6,958.5	6,908.6	27.4	26.1	142.94	-722.9	-188.5	1,228.5	1,182.7	26.791	
7,100.0	7,008.6	7,058.5	7,008.6	27.5	26.2	142.94	-722.9	-188.5	1,228.5	1,182.6	26.756	
7,200.0	7,108.6	7,158.5	7,108.6	27.5	26.2	142.94	-722.9	-188.5	1,228.5	1,182.5	26.721	
7,300.0	7,208.6	7,258.5	7,208.6	27.5	26.2	142.94	-722.9	-188.5	1,228.5	1,182.5	26.686	
7,400.0	7,308.6	7,358.5	7,308.6	27.6	26.2	142.94	-722.9	-188.5	1,228.5	1,182.4	26.650	
7,500.0	7,408.6	7,458.5	7,408.6	27.6	26.2	142.94	-722.9	-188.5	1,228.5	1,182.4	26.614	
7,600.0	7,508.6	7,558.5	7,508.6	27.6	26.2	142.94	-722.9	-188.5	1,228.5	1,182.3	26.579	
7,700.0	7,608.6	7,658.5	7,608.6	27.7	26.3	142.94	-722.9	-188.5	1,228.5	1,182.2	26.543	
7,800.0	7,708.6	7,758.5	7,708.6	27.7	26.3	142.94	-722.9	-188.5	1,228.5	1,182.2	26.506	
7,900.0	7,808.6	7,858.5	7,808.6	27.7	26.3	142.94	-722.9	-188.5	1,228.5	1,182.1	26.471	
7,910.0	7,818.6	7,868.5	7,818.6	27.8	26.3	142.94	-722.9	-188.5	1,228.5	1,182.1	26.468	
8,000.0	7,908.6	7,892.8	7,843.0	27.8	26.3	142.94	-722.9	-188.5	1,230.3	1,183.9	26.549	
8,100.0	8,008.6	7,892.8	7,843.0	27.8	26.3	142.94	-722.9	-188.5	1,239.6	1,193.6	26.924	
8,200.0	8,108.6	7,892.8	7,843.0	27.9	26.3	142.94	-722.9	-188.5	1,256.9	1,211.3	27.580	
8,300.0	8,208.6	7,892.8	7,843.0	27.9	26.3	142.94	-722.9	-188.5	1,281.8	1,236.8	28.508	
8,400.0	8,308.6	7,892.8	7,843.0	27.9	26.3	142.94	-722.9	-188.5	1,313.8	1,269.6	29.691	
8,500.0	8,408.6	7,892.8	7,843.0	28.0	26.3	142.94	-722.9	-188.5	1,352.5	1,309.0	31.112	
8,600.0	8,508.6	7,892.8	7,843.0	28.0	26.3	142.94	-722.9	-188.5	1,397.3	1,354.6	32.750	
8,700.0	8,608.6	7,892.8	7,843.0	28.0	26.3	142.94	-722.9	-188.5	1,447.6	1,405.7	34.581	
8,757.4	8,666.0	7,892.8	7,843.0	28.1	26.3	142.94	-722.9	-188.5	1,478.7	1,437.3	35.714	

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Currier BCU 0993-16-06W - Slot 16-06W
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Reference Site:</b>	Currier 0993-16-07 Pad	<b>MD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Currier BCU 0993-16-06W	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	KLXDirectional-AD
<b>Reference Design:</b>	Design #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design											Offset Site Error:	0.0 usft
Currier 0993-16-07 Pad - Currier BCU 0993-16-11E - OH - Design #3											Offset Well Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												
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	55.18	29.2	41.9	51.1			
100.0	100.0	100.0	100.0	0.8	0.8	55.18	29.2	41.9	51.1	49.5	32.256	
200.0	200.0	200.0	200.0	1.4	1.4	55.18	29.2	41.9	51.1	48.3	18.061	CC
300.0	300.0	299.1	299.1	1.9	2.2	57.38	28.0	43.7	51.9	48.1	13.746	ES
400.0	400.0	397.9	397.7	2.2	3.8	63.54	24.4	49.0	54.8	49.9	11.117	
500.0	500.0	495.9	495.1	2.4	4.9	146.84	18.5	57.8	61.1	55.0	10.072	
600.0	599.9	594.1	592.3	3.1	5.2	156.46	10.9	69.0	73.4	66.0	10.009	SF
700.0	699.7	690.1	687.3	4.1	5.5	164.28	2.7	80.8	91.3	82.5	10.364	
800.0	799.2	783.1	778.6	4.9	6.1	170.98	-8.1	94.6	116.6	106.2	11.191	
900.0	898.3	872.7	865.9	5.6	6.9	176.23	-21.1	110.2	149.4	137.5	12.526	
1,000.0	996.8	958.5	948.6	6.3	7.6	-179.81	-35.9	127.2	189.2	175.9	14.279	
1,100.0	1,094.9	1,040.4	1,026.8	6.5	8.2	-176.83	-52.2	145.4	234.6	220.6	16.670	
1,200.0	1,193.0	1,119.3	1,101.2	6.8	8.8	-174.52	-69.9	164.6	283.3	268.4	19.070	
1,300.0	1,291.1	1,200.0	1,176.4	7.1	9.3	-172.57	-90.0	186.0	334.9	319.2	21.351	
1,400.0	1,389.1	1,268.2	1,239.1	7.4	9.8	-171.15	-108.6	205.4	389.2	372.9	23.895	
1,500.0	1,487.2	1,338.2	1,302.6	7.8	10.1	-169.87	-129.1	226.6	446.1	429.3	26.510	
1,600.0	1,585.3	1,417.7	1,374.1	8.1	10.4	-168.65	-153.3	251.5	504.6	487.2	29.000	
1,700.0	1,683.4	1,498.5	1,446.7	8.5	10.6	-167.66	-178.0	276.8	563.1	545.1	31.272	
1,800.0	1,781.4	1,579.2	1,519.3	8.9	10.9	-166.85	-202.6	302.1	621.8	603.1	33.355	
1,900.0	1,879.5	1,659.9	1,591.9	9.3	11.2	-166.18	-227.2	327.3	680.5	661.2	35.275	
2,000.0	1,977.6	1,740.6	1,664.5	9.7	11.5	-165.62	-251.9	352.6	739.2	719.3	37.044	
2,100.0	2,075.7	1,821.3	1,737.1	10.1	11.8	-165.14	-276.5	377.9	798.0	777.4	38.672	
2,200.0	2,173.7	1,902.0	1,809.6	10.5	12.2	-164.73	-301.1	403.2	856.9	835.5	40.173	
2,300.0	2,271.8	1,982.8	1,882.2	10.9	12.5	-164.37	-325.8	428.5	915.7	893.7	41.557	
2,400.0	2,369.9	2,063.5	1,954.8	11.3	12.8	-164.05	-350.4	453.8	974.6	951.9	42.837	
2,500.0	2,468.0	2,144.2	2,027.4	11.7	13.2	-163.77	-375.0	479.1	1,033.5	1,010.0	44.020	
2,600.0	2,566.0	2,224.9	2,100.0	12.1	13.6	-163.52	-399.6	504.3	1,092.4	1,068.2	45.116	
2,700.0	2,664.1	2,305.6	2,172.6	12.5	14.0	-163.30	-424.3	529.6	1,151.4	1,126.4	46.138	
2,800.0	2,762.2	2,386.3	2,245.2	13.0	14.4	-163.09	-448.9	554.9	1,210.3	1,184.6	47.059	
2,900.0	2,860.3	2,467.0	2,317.8	13.4	15.0	-162.91	-473.5	580.2	1,269.2	1,242.8	47.916	
3,000.0	2,958.3	2,547.8	2,390.3	13.8	15.6	-162.74	-498.2	605.5	1,328.2	1,301.0	48.740	
3,100.0	3,056.4	2,628.5	2,462.9	14.3	16.2	-162.59	-522.8	630.8	1,387.2	1,359.1	49.503	
3,200.0	3,154.5	2,709.2	2,535.5	14.7	16.8	-162.45	-547.4	656.0	1,446.1	1,417.3	50.213	
3,300.0	3,252.6	2,789.9	2,608.1	15.1	17.5	-162.32	-572.1	681.3	1,505.1	1,475.5	50.875	
3,400.0	3,350.6	2,870.6	2,680.7	15.6	18.1	-162.20	-596.7	706.6	1,564.1	1,533.7	51.493	
3,500.0	3,448.7	2,951.3	2,753.3	16.0	18.8	-162.08	-621.3	731.9	1,623.1	1,591.9	52.073	
3,600.0	3,546.8	3,032.0	2,825.9	16.5	19.4	-161.98	-646.0	757.2	1,682.0	1,650.1	52.618	
3,700.0	3,644.9	3,112.8	2,898.4	16.9	20.1	-161.88	-670.6	782.5	1,741.0	1,708.3	53.130	
3,800.0	3,743.0	3,193.5	2,971.0	17.4	20.7	-161.79	-695.2	807.7	1,800.0	1,766.5	53.612	
3,900.0	3,841.0	3,274.2	3,043.6	17.8	21.4	-161.71	-719.9	833.0	1,859.0	1,824.6	54.065	
4,000.0	3,939.1	3,354.9	3,116.2	18.3	22.0	-161.63	-744.5	858.3	1,918.0	1,882.8	54.492	
4,100.0	4,037.2	3,435.6	3,188.8	18.7	22.7	-161.55	-769.1	883.6	1,977.0	1,941.0	54.896	
4,200.0	4,135.3	3,516.3	3,261.4	19.2	23.4	-161.48	-793.8	908.9	2,036.0	1,999.2	55.278	
4,300.0	4,233.3	3,597.1	3,334.0	19.6	24.0	-161.42	-818.4	934.2	2,095.0	2,057.4	55.639	
4,400.0	4,331.4	3,677.8	3,406.6	20.1	24.7	-161.35	-843.0	959.5	2,154.0	2,115.5	55.980	
4,500.0	4,429.5	3,758.5	3,479.1	20.5	25.3	-161.29	-867.6	984.7	2,213.0	2,173.7	56.304	
4,600.0	4,527.6	3,839.2	3,551.7	21.0	26.0	-161.24	-892.3	1,010.0	2,272.0	2,231.9	56.611	
4,700.0	4,625.6	3,919.9	3,624.3	21.4	26.7	-161.18	-916.9	1,035.3	2,331.0	2,290.1	56.904	
4,800.0	4,723.7	4,000.6	3,696.9	21.9	27.3	-161.13	-941.5	1,060.6	2,390.1	2,348.3	57.181	
4,900.0	4,821.8	4,081.3	3,769.5	22.3	28.0	-161.08	-966.2	1,085.9	2,449.1	2,406.6	57.445	
5,000.0	4,919.9	4,162.1	3,842.1	22.8	28.6	-161.04	-990.8	1,111.2	2,508.1	2,464.6	57.696	

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Currier BCU 0993-16-06W - Slot 16-06W
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Reference Site:</b>	Currier 0993-16-07 Pad	<b>MD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Currier BCU 0993-16-06W	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	KLXDirectional-AD
<b>Reference Design:</b>	Design #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Currier 0993-16-07 Pad - Currier BCU 0993-16-11E - OH - Design #3												Offset Well Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard													
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis		Highside Toolface (°)	Offset Wellbore +N/-S (usft)	Centre +E/-W (usft)	Distance		Separation Factor	Warning	
				Reference (usft)	Offset (usft)				Between Centres (usft)	Between Ellipses (usft)			
5,100.0	5,017.9	4,242.8	3,914.7	23.3	29.3	-160.99	-1,015.4	1,136.4	2,567.1	2,522.8	57.936		
5,200.0	5,116.0	4,323.5	3,987.3	23.7	30.0	-160.95	-1,040.1	1,161.7	2,626.1	2,581.0	58.164		
5,300.0	5,214.1	4,404.2	4,059.8	24.2	30.6	-160.91	-1,064.7	1,187.0	2,685.1	2,639.1	58.382		
5,400.0	5,312.2	4,484.9	4,132.4	24.6	31.3	-160.90	-1,089.3	1,212.3	2,744.1	2,697.3	58.593		
5,500.0	5,410.6	4,566.7	4,206.0	25.1	32.0	-161.30	-1,114.3	1,237.9	2,801.7	2,754.0	58.700		
5,600.0	5,509.6	4,650.2	4,281.1	25.7	32.6	-161.64	-1,139.8	1,264.1	2,856.5	2,807.9	58.728		
5,700.0	5,609.0	4,735.5	4,357.8	26.2	33.3	-161.92	-1,165.8	1,290.8	2,908.5	2,859.0	58.709		
5,800.0	5,708.7	4,822.4	4,436.0	26.6	34.1	-162.15	-1,192.3	1,318.0	2,957.7	2,907.3	58.653		
5,900.0	5,808.6	4,910.8	4,515.5	27.0	34.8	-162.32	-1,219.3	1,345.7	3,004.0	2,952.7	58.582		
6,000.0	5,908.6	5,000.5	4,596.1	27.1	35.5	123.15	-1,246.7	1,373.8	3,047.5	2,995.7	58.737		
6,100.0	6,008.6	5,090.5	4,677.0	27.1	36.3	123.31	-1,274.1	1,402.0	3,090.6	3,038.2	58.939		
6,200.0	6,108.6	6,584.3	6,108.6	27.2	42.8	124.52	-1,517.5	1,651.8	3,132.2	3,070.9	51.117		
6,300.0	6,208.6	6,684.3	6,208.6	27.2	42.8	124.52	-1,517.5	1,651.8	3,132.2	3,070.9	51.077		
6,400.0	6,308.6	6,784.3	6,308.6	27.2	42.8	124.52	-1,517.5	1,651.8	3,132.2	3,070.8	51.037		
6,500.0	6,408.6	6,884.3	6,408.6	27.3	42.8	124.52	-1,517.5	1,651.8	3,132.2	3,070.8	50.997		
6,600.0	6,508.6	6,984.3	6,508.6	27.3	42.9	124.52	-1,517.5	1,651.8	3,132.2	3,070.7	50.956		
6,700.0	6,608.6	7,084.3	6,608.6	27.3	42.9	124.52	-1,517.5	1,651.8	3,132.2	3,070.7	50.916		
6,800.0	6,708.6	7,184.3	6,708.6	27.4	42.9	124.52	-1,517.5	1,651.8	3,132.2	3,070.6	50.875		
6,900.0	6,808.6	7,284.3	6,808.6	27.4	42.9	124.52	-1,517.5	1,651.8	3,132.2	3,070.6	50.833		
7,000.0	6,908.6	7,384.3	6,908.6	27.4	42.9	124.52	-1,517.5	1,651.8	3,132.2	3,070.5	50.792		
7,100.0	7,008.6	7,484.3	7,008.6	27.5	42.9	124.52	-1,517.5	1,651.8	3,132.2	3,070.5	50.750		
7,200.0	7,108.6	7,584.3	7,108.6	27.5	42.9	124.52	-1,517.5	1,651.8	3,132.2	3,070.4	50.708		
7,300.0	7,208.6	7,684.3	7,208.6	27.5	42.9	124.52	-1,517.5	1,651.8	3,132.2	3,070.4	50.666		
7,400.0	7,308.6	7,784.3	7,308.6	27.6	43.0	124.52	-1,517.5	1,651.8	3,132.2	3,070.3	50.623		
7,500.0	7,408.6	7,884.3	7,408.6	27.6	43.0	124.52	-1,517.5	1,651.8	3,132.2	3,070.3	50.581		
7,600.0	7,508.6	7,984.3	7,508.6	27.6	43.0	124.52	-1,517.5	1,651.8	3,132.2	3,070.2	50.538		
7,700.0	7,608.6	8,084.3	7,608.6	27.7	43.0	124.52	-1,517.5	1,651.8	3,132.2	3,070.2	50.495		
7,800.0	7,708.6	8,184.3	7,708.6	27.7	43.0	124.52	-1,517.5	1,651.8	3,132.2	3,070.1	50.451		
7,900.0	7,808.6	8,284.3	7,808.6	27.7	43.0	124.52	-1,517.5	1,651.8	3,132.2	3,070.1	50.407		
7,910.0	7,818.6	8,294.3	7,818.6	27.8	43.0	124.52	-1,517.5	1,651.8	3,132.2	3,070.1	50.403		
8,000.0	7,908.6	8,333.7	7,858.0	27.8	43.0	124.52	-1,517.5	1,651.8	3,132.6	3,070.3	50.284		
8,100.0	8,008.6	8,333.7	7,858.0	27.8	43.0	124.52	-1,517.5	1,651.8	3,135.8	3,073.3	50.144		
8,200.0	8,108.6	8,333.7	7,858.0	27.9	43.0	124.52	-1,517.5	1,651.8	3,142.2	3,079.5	50.095		
8,300.0	8,208.6	8,333.7	7,858.0	27.9	43.0	124.52	-1,517.5	1,651.8	3,151.8	3,088.9	50.134		
8,400.0	8,308.6	8,333.7	7,858.0	27.9	43.0	124.52	-1,517.5	1,651.8	3,164.4	3,101.5	50.260		
8,500.0	8,408.6	8,333.7	7,858.0	28.0	43.0	124.52	-1,517.5	1,651.8	3,180.2	3,117.2	50.471		
8,600.0	8,508.6	8,333.7	7,858.0	28.0	43.0	124.52	-1,517.5	1,651.8	3,199.1	3,136.0	50.763		
8,700.0	8,608.6	8,333.7	7,858.0	28.0	43.0	124.52	-1,517.5	1,651.8	3,220.9	3,157.9	51.135		
8,757.4	8,666.0	8,333.7	7,858.0	28.1	43.0	124.52	-1,517.5	1,651.8	3,234.7	3,171.8	51.390		

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Currier BCU 0993-16-06W - Slot 16-06W
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Reference Site:</b>	Currier 0993-16-07 Pad	<b>MD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Currier BCU 0993-16-06W	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	KLXDirectional-AD
<b>Reference Design:</b>	Design #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Currier 0993-16-07 Pad - Currier BCU 0993-16-13E - OH - Design #3												Offset Well Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard													
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	57.81	22.0	34.9	41.2				
100.0	100.0	100.0	100.0	0.8	0.8	57.81	22.0	34.9	41.2	39.7	26.034		
200.0	200.0	200.0	200.0	1.4	1.4	57.81	22.0	34.9	41.2	38.4	14.577		
210.0	210.0	210.0	210.0	1.5	1.4	57.81	22.0	34.9	41.2	38.3	14.234	CC	
300.0	300.0	299.8	299.8	1.9	1.6	58.55	21.6	35.3	41.4	37.9	11.853	ES	
400.0	400.0	399.2	399.1	2.2	2.9	64.23	18.5	38.3	42.5	38.2	9.824		
500.0	500.0	498.1	497.6	2.4	4.3	149.09	12.3	44.2	46.2	40.9	8.727		
600.0	599.9	595.6	594.3	3.1	5.3	162.00	3.3	53.0	56.6	49.5	7.938	SF	
700.0	699.7	690.9	688.2	4.1	6.2	172.94	-8.4	64.3	75.7	66.4	8.148		
800.0	799.2	783.3	778.5	4.9	7.0	-179.50	-22.5	77.8	103.2	92.2	9.331		
900.0	898.3	872.1	864.5	5.6	7.7	-174.56	-38.4	93.2	138.5	126.0	11.065		
1,000.0	996.8	956.9	945.7	6.3	8.3	-171.28	-55.8	110.0	180.8	167.0	13.147		
1,100.0	1,094.9	1,037.7	1,022.3	6.5	8.8	-169.11	-74.4	128.0	228.5	214.0	15.758		
1,200.0	1,193.0	1,115.4	1,094.9	6.8	9.3	-167.52	-94.2	147.1	279.4	264.2	18.357		
1,300.0	1,291.1	1,190.0	1,163.8	7.1	9.8	-166.27	-114.8	166.9	333.1	317.2	20.946		
1,400.0	1,389.1	1,261.5	1,229.0	7.4	10.3	-165.26	-136.0	187.5	389.5	373.0	23.534		
1,500.0	1,487.2	1,330.1	1,290.5	7.8	10.7	-164.42	-157.7	208.4	448.4	431.2	26.119		
1,600.0	1,585.3	1,400.0	1,352.3	8.1	11.1	-163.66	-181.3	231.2	509.6	491.8	28.570		
1,700.0	1,683.4	1,458.4	1,403.2	8.5	11.4	-163.09	-201.9	251.1	573.0	554.8	31.461		
1,800.0	1,781.4	1,530.7	1,465.5	8.9	11.6	-162.46	-228.4	276.7	637.8	619.1	34.023		
1,900.0	1,879.5	1,606.6	1,530.8	9.3	11.8	-161.92	-256.1	303.5	702.8	683.5	36.350		
2,000.0	1,977.6	1,682.5	1,596.1	9.7	12.1	-161.48	-283.9	330.3	767.8	747.8	38.497		
2,100.0	2,075.7	1,758.4	1,661.5	10.1	12.4	-161.10	-311.7	357.1	832.8	812.2	40.488		
2,200.0	2,173.7	1,834.3	1,726.8	10.5	12.6	-160.78	-339.4	383.9	897.8	876.6	42.335		
2,300.0	2,271.8	1,910.1	1,792.1	10.9	12.9	-160.50	-367.2	410.7	962.9	941.0	44.045		
2,400.0	2,369.9	1,986.0	1,857.4	11.3	13.2	-160.25	-395.0	437.6	1,027.9	1,005.4	45.634		
2,500.0	2,468.0	2,061.9	1,922.8	11.7	13.5	-160.04	-422.8	464.4	1,093.0	1,069.8	47.117		
2,600.0	2,566.0	2,137.8	1,988.1	12.1	13.7	-159.85	-450.5	491.2	1,158.0	1,134.2	48.517		
2,700.0	2,664.1	2,213.6	2,053.4	12.5	14.1	-159.68	-478.3	518.0	1,223.1	1,198.5	49.731		
2,800.0	2,762.2	2,289.5	2,118.7	13.0	14.8	-159.53	-506.1	544.8	1,288.2	1,262.9	50.887		
2,900.0	2,860.3	2,365.4	2,184.1	13.4	15.5	-159.39	-533.8	571.6	1,353.3	1,327.3	52.024		
3,000.0	2,958.3	2,441.3	2,249.4	13.8	16.3	-159.26	-561.6	598.4	1,418.4	1,391.7	53.062		
3,100.0	3,056.4	2,517.2	2,314.7	14.3	17.0	-159.15	-589.4	625.3	1,483.5	1,456.0	54.031		
3,200.0	3,154.5	2,593.0	2,380.0	14.7	17.7	-159.04	-617.1	652.1	1,548.6	1,520.4	54.935		
3,300.0	3,252.6	2,668.9	2,445.4	15.1	18.4	-158.94	-644.9	678.9	1,613.7	1,584.8	55.776		
3,400.0	3,350.6	2,744.8	2,510.7	15.6	19.2	-158.85	-672.7	705.7	1,678.8	1,649.1	56.567		
3,500.0	3,448.7	2,820.7	2,576.0	16.0	19.9	-158.77	-700.4	732.5	1,743.9	1,713.5	57.311		
3,600.0	3,546.8	2,896.5	2,641.3	16.5	20.6	-158.70	-728.2	759.3	1,809.0	1,777.8	58.010		
3,700.0	3,644.9	2,972.4	2,706.7	16.9	21.4	-158.62	-756.0	786.2	1,874.1	1,842.2	58.680		
3,800.0	3,743.0	3,067.8	2,788.9	17.4	22.3	-158.47	-792.2	818.4	1,938.9	1,905.9	58.886		
3,900.0	3,841.0	3,164.6	2,872.2	17.8	23.3	-158.18	-831.4	847.9	2,002.8	1,968.9	59.047		
4,000.0	3,939.1	3,240.0	2,937.1	18.3	24.0	-157.92	-862.9	869.9	2,066.5	2,031.8	59.604		
4,100.0	4,037.2	3,316.8	3,003.2	18.7	24.7	-157.67	-894.9	892.3	2,130.2	2,094.7	60.096		
4,200.0	4,135.3	3,393.6	3,069.3	19.2	25.4	-157.44	-926.9	914.6	2,193.8	2,157.6	60.557		
4,300.0	4,233.3	3,470.4	3,135.5	19.6	26.1	-157.21	-959.0	937.0	2,257.6	2,220.6	60.992		
4,400.0	4,331.4	3,547.2	3,201.6	20.1	26.9	-157.01	-991.0	959.3	2,321.3	2,283.5	61.405		
4,500.0	4,429.5	3,623.9	3,267.7	20.5	27.6	-156.81	-1,023.0	981.7	2,385.1	2,346.5	61.797		
4,600.0	4,527.6	3,700.7	3,333.8	21.0	28.3	-156.62	-1,055.0	1,004.0	2,448.8	2,409.4	62.169		
4,700.0	4,625.6	3,777.5	3,399.9	21.4	29.0	-156.44	-1,087.1	1,026.4	2,512.6	2,472.4	62.522		
4,800.0	4,723.7	3,854.3	3,466.0	21.9	29.8	-156.27	-1,119.1	1,048.7	2,576.4	2,535.4	62.857		
4,900.0	4,821.8	3,931.1	3,532.1	22.3	30.5	-156.11	-1,151.1	1,071.1	2,640.2	2,598.4	63.177		

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Currier BCU 0993-16-06W - Slot 16-06W
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Reference Site:</b>	Currier 0993-16-07 Pad	<b>MD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Currier BCU 0993-16-06W	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	KLXDirectional-AD
<b>Reference Design:</b>	Design #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Currier 0993-16-07 Pad - Currier BCU 0993-16-13E - OH - Design #3												Offset Well Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard													
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore +N/-S (usft)	Centre +E/-W (usft)	Distance		Separation Factor	Warning	
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)				Between Centres (usft)	Between Ellipses (usft)			
5,000.0	4,919.9	4,007.9	3,598.2	22.8	31.2	-155.96	-1,183.2	1,093.5	2,704.0	2,661.5	63.482		
5,100.0	5,017.9	4,084.7	3,664.3	23.3	31.9	-155.81	-1,215.2	1,115.8	2,767.9	2,724.5	63.771		
5,200.0	5,116.0	4,161.4	3,730.4	23.7	32.7	-155.67	-1,247.2	1,138.2	2,831.7	2,787.5	64.047		
5,300.0	5,214.1	4,238.2	3,796.5	24.2	33.4	-155.54	-1,279.3	1,160.5	2,895.6	2,850.6	64.310		
5,400.0	5,312.2	4,315.0	3,862.6	24.6	34.1	-155.44	-1,311.3	1,182.9	2,959.4	2,913.6	64.565		
5,500.0	5,410.6	4,392.8	3,929.6	25.1	34.8	-155.96	-1,343.7	1,205.5	3,022.0	2,975.3	64.714		
5,600.0	5,509.6	4,472.5	3,998.2	25.7	35.6	-156.40	-1,377.0	1,228.7	3,082.0	3,034.4	64.790		
5,700.0	5,609.0	4,553.9	4,068.3	26.2	36.4	-156.76	-1,410.9	1,252.4	3,139.4	3,091.0	64.822		
5,800.0	5,708.7	4,636.9	4,139.8	26.6	37.1	-157.06	-1,445.5	1,276.6	3,194.3	3,145.0	64.821		
5,900.0	5,808.6	4,721.4	4,212.5	27.0	38.0	-157.30	-1,480.8	1,301.2	3,246.4	3,196.3	64.809		
6,000.0	5,908.6	4,807.3	4,286.5	27.1	38.8	128.19	-1,516.6	1,326.2	3,296.1	3,245.4	65.036		
6,100.0	6,008.6	4,893.4	4,360.6	27.1	39.6	128.44	-1,552.5	1,351.3	3,345.3	3,294.1	65.310		
6,200.0	6,108.6	4,979.5	4,434.7	27.2	40.4	128.69	-1,588.5	1,376.3	3,394.6	3,342.9	65.573		
6,300.0	6,208.6	5,065.1	4,508.6	27.2	41.2	131.04	-1,624.4	1,401.3	3,443.5	3,391.7	65.836		
6,400.0	6,308.6	5,150.1	4,582.6	27.2	42.0	131.04	-1,660.3	1,426.2	3,493.5	3,440.5	66.099		
6,500.0	6,408.6	5,235.1	4,656.6	27.3	42.8	131.04	-1,696.2	1,451.1	3,543.5	3,489.3	66.362		
6,600.0	6,508.6	5,320.1	4,730.6	27.3	43.6	131.04	-1,732.1	1,476.0	3,593.5	3,538.1	66.625		
6,700.0	6,608.6	5,405.1	4,804.6	27.3	44.4	131.04	-1,768.0	1,500.9	3,643.5	3,586.9	66.888		
6,800.0	6,708.6	5,490.1	4,878.6	27.4	45.2	131.04	-1,803.9	1,525.8	3,693.5	3,635.7	67.151		
6,900.0	6,808.6	5,575.1	4,952.6	27.4	46.0	131.04	-1,839.8	1,550.7	3,743.5	3,684.5	67.414		
7,000.0	6,908.6	5,660.1	5,026.6	27.4	46.8	131.04	-1,875.7	1,575.6	3,793.5	3,733.3	67.677		
7,100.0	7,008.6	5,745.1	5,100.6	27.5	47.6	131.04	-1,911.6	1,600.5	3,843.5	3,782.1	67.940		
7,200.0	7,108.6	5,830.1	5,174.6	27.5	48.4	131.04	-1,947.5	1,625.4	3,893.5	3,830.9	68.203		
7,300.0	7,208.6	5,915.1	5,248.6	27.5	49.2	131.04	-1,983.4	1,650.3	3,943.5	3,879.7	68.466		
7,400.0	7,308.6	6,000.1	5,322.6	27.6	50.0	131.04	-2,019.3	1,675.2	3,993.5	3,928.5	68.729		
7,500.0	7,408.6	6,085.1	5,396.6	27.6	50.8	131.04	-2,055.2	1,700.1	4,043.5	3,977.3	68.992		
7,600.0	7,508.6	6,170.1	5,470.6	27.6	51.6	131.04	-2,091.1	1,725.0	4,093.5	4,026.1	69.255		
7,700.0	7,608.6	6,255.1	5,544.6	27.7	52.4	131.04	-2,127.0	1,750.0	4,143.5	4,074.9	69.518		
7,800.0	7,708.6	6,340.1	5,618.6	27.7	53.2	131.04	-2,162.9	1,774.9	4,193.5	4,123.7	69.781		
7,900.0	7,808.6	6,425.1	5,692.6	27.7	54.0	131.04	-2,198.8	1,800.0	4,243.5	4,172.5	70.044		
8,000.0	7,908.6	6,510.1	5,766.6	27.8	54.8	131.04	-2,234.7	1,824.9	4,293.5	4,221.3	70.307		
8,100.0	8,008.6	6,595.1	5,840.6	27.8	55.6	131.04	-2,270.6	1,850.0	4,343.5	4,270.1	70.570		
8,200.0	8,108.6	6,680.1	5,914.6	27.9	56.4	131.04	-2,306.5	1,875.0	4,393.5	4,318.9	70.833		
8,300.0	8,208.6	6,765.1	5,988.6	27.9	57.2	131.04	-2,342.4	1,900.0	4,443.5	4,367.7	71.096		
8,400.0	8,308.6	6,850.1	6,062.6	27.9	58.0	131.04	-2,378.3	1,925.0	4,493.5	4,416.5	71.359		
8,500.0	8,408.6	6,935.1	6,136.6	28.0	58.8	131.04	-2,414.2	1,950.0	4,543.5	4,465.3	71.622		
8,600.0	8,508.6	7,020.1	6,210.6	28.0	59.6	131.04	-2,450.1	1,975.0	4,593.5	4,514.1	71.885		
8,700.0	8,608.6	7,105.1	6,284.6	28.0	60.4	131.04	-2,486.0	2,000.0	4,643.5	4,562.9	72.148		
8,757.4	8,666.0	9,317.5	8,666.0	28.1	49.8	131.04	-1,998.3	1,662.4	3,435.5	3,372.1	54.180		

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Currier BCU 0993-16-06W - Slot 16-06W
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Reference Site:</b>	Currier 0993-16-07 Pad	<b>MD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Currier BCU 0993-16-06W	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	KLXDirectional-AD
<b>Reference Design:</b>	Design #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design											Currier 0993-16-07 Pad - Currier BCU 0993-16-13W - OH - Design #2	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 +N/-S (usft)	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	-162.77	-21.4	-6.6	22.4				
100.0	100.0	100.0	100.0	0.8	0.8	-162.77	-21.4	-6.6	22.4	20.8	14.118		
200.0	200.0	200.0	200.0	1.4	1.4	-162.77	-21.4	-6.6	22.4	19.5	7.905		
210.0	210.0	210.0	210.0	1.5	1.4	-162.77	-21.4	-6.6	22.4	19.5	7.737	CC, ES	
300.0	300.0	299.4	299.4	1.9	1.7	-162.51	-22.2	-7.0	23.3	19.7	6.501		
400.0	400.0	398.1	398.0	2.2	3.1	-161.36	-26.7	-9.0	28.2	22.9	5.269	SF	
500.0	500.0	496.3	495.8	2.4	4.4	-85.86	-34.9	-12.7	37.4	30.6	5.504		
600.0	599.9	593.6	592.1	3.1	5.4	-87.91	-46.9	-18.1	50.7	42.6	6.295		
700.0	699.7	689.5	686.5	4.1	6.3	-91.32	-62.4	-25.0	68.1	59.0	7.463		
800.0	799.2	783.8	778.6	4.9	7.1	-94.71	-81.0	-33.3	89.9	79.9	8.931		
900.0	898.3	876.1	867.8	5.6	7.8	-97.64	-102.7	-43.0	116.3	105.3	10.627		
1,000.0	996.8	966.1	953.8	6.3	8.4	-100.01	-126.9	-53.8	147.0	135.2	12.496		
1,100.0	1,094.9	1,053.8	1,036.5	6.5	9.0	-102.12	-153.5	-65.7	181.9	169.4	14.569		
1,200.0	1,193.0	1,139.3	1,116.0	6.8	9.6	-103.30	-182.1	-78.5	220.1	206.9	16.624		
1,300.0	1,291.1	1,222.4	1,192.1	7.1	10.1	-103.81	-212.5	-92.2	261.5	247.5	18.727		
1,400.0	1,389.1	1,305.4	1,267.0	7.4	10.5	-103.93	-245.3	-106.8	305.7	291.1	20.963		
1,500.0	1,487.2	1,394.7	1,347.1	7.8	10.7	-103.97	-281.3	-122.9	350.7	335.5	23.066		
1,600.0	1,585.3	1,484.0	1,427.2	8.1	11.0	-103.99	-317.3	-139.0	395.8	379.9	24.969		
1,700.0	1,683.4	1,573.3	1,507.4	8.5	11.3	-104.01	-353.3	-155.1	440.8	424.3	26.688		
1,800.0	1,781.4	1,662.6	1,587.5	8.9	11.6	-104.03	-389.2	-171.2	485.8	468.6	28.243		
1,900.0	1,879.5	1,751.9	1,667.6	9.3	11.9	-104.04	-425.2	-187.3	530.8	512.9	29.649		
2,000.0	1,977.6	1,841.2	1,747.7	9.7	12.3	-104.06	-461.2	-203.4	575.8	557.2	30.924		
2,100.0	2,075.7	1,930.5	1,827.9	10.1	12.6	-104.07	-497.2	-219.5	620.8	601.5	32.081		
2,200.0	2,173.7	2,019.8	1,908.0	10.5	13.0	-104.07	-533.2	-235.6	665.8	645.7	33.134		
2,300.0	2,271.8	2,109.1	1,988.1	10.9	13.3	-104.08	-569.1	-251.7	710.9	690.0	34.093		
2,400.0	2,369.9	2,198.4	2,068.2	11.3	13.7	-104.09	-605.1	-267.8	755.9	734.3	34.968		
2,500.0	2,468.0	2,287.7	2,148.4	11.7	14.1	-104.09	-641.1	-283.9	800.9	778.5	35.767		
2,600.0	2,566.0	2,377.0	2,228.5	12.1	14.4	-104.10	-677.1	-300.0	845.9	822.7	36.500		
2,700.0	2,664.1	2,466.3	2,308.6	12.5	14.8	-104.10	-713.0	-316.1	890.9	867.0	37.174		
2,800.0	2,762.2	2,555.6	2,388.8	13.0	15.2	-104.11	-749.0	-332.2	935.9	911.2	37.792		
2,900.0	2,860.3	2,644.9	2,468.9	13.4	15.8	-104.11	-785.0	-348.3	981.0	955.4	38.373		
3,000.0	2,958.3	2,734.2	2,549.0	13.8	16.4	-104.12	-821.0	-364.4	1,026.0	999.6	38.897		
3,100.0	3,056.4	2,823.4	2,629.1	14.3	17.1	-104.12	-856.9	-380.5	1,071.0	1,043.8	39.387		
3,200.0	3,154.5	2,912.7	2,709.3	14.7	17.8	-104.12	-892.9	-396.6	1,116.0	1,088.0	39.842		
3,300.0	3,252.6	3,002.0	2,789.4	15.1	18.5	-104.13	-928.9	-412.7	1,161.0	1,132.2	40.265		
3,400.0	3,350.6	3,091.3	2,869.5	15.6	19.2	-104.13	-964.9	-428.8	1,206.0	1,176.4	40.659		
3,500.0	3,448.7	3,180.6	2,949.6	16.0	19.9	-104.13	-1,000.8	-444.9	1,251.1	1,220.6	41.026		
3,600.0	3,546.8	3,269.9	3,029.8	16.5	20.5	-104.13	-1,036.8	-461.0	1,296.1	1,264.7	41.369		
3,700.0	3,644.9	3,359.2	3,109.9	16.9	21.2	-104.13	-1,072.8	-477.1	1,341.1	1,308.9	41.690		
3,800.0	3,743.0	3,448.5	3,190.0	17.4	21.9	-104.14	-1,108.8	-493.2	1,386.1	1,353.1	41.991		
3,900.0	3,841.0	3,537.8	3,270.1	17.8	22.6	-104.14	-1,144.8	-509.3	1,431.1	1,397.3	42.274		
4,000.0	3,939.1	3,627.1	3,350.3	18.3	23.3	-104.14	-1,180.7	-525.3	1,476.1	1,441.4	42.540		
4,100.0	4,037.2	3,716.4	3,430.4	18.7	24.0	-104.14	-1,216.7	-541.4	1,521.1	1,485.6	42.790		
4,200.0	4,135.3	3,805.7	3,510.5	19.2	24.6	-104.14	-1,252.7	-557.5	1,566.2	1,529.8	43.026		
4,300.0	4,233.3	3,895.0	3,590.6	19.6	25.3	-104.14	-1,288.7	-573.6	1,611.2	1,573.9	43.249		
4,400.0	4,331.4	3,984.3	3,670.8	20.1	26.0	-104.15	-1,324.6	-589.7	1,656.2	1,618.1	43.459		
4,500.0	4,429.5	4,073.6	3,750.9	20.5	26.7	-104.15	-1,360.6	-605.8	1,701.2	1,662.2	43.658		
4,600.0	4,527.6	4,162.9	3,831.0	21.0	27.4	-104.15	-1,396.6	-621.9	1,746.2	1,706.4	43.847		
4,700.0	4,625.6	4,252.2	3,911.1	21.4	28.1	-104.15	-1,432.6	-638.0	1,791.2	1,750.6	44.025		
4,800.0	4,723.7	4,341.5	3,991.3	21.9	28.8	-104.15	-1,468.5	-654.1	1,836.3	1,794.7	44.195		
4,900.0	4,821.8	4,430.8	4,071.4	22.3	29.5	-104.15	-1,504.5	-670.2	1,881.3	1,838.9	44.356		

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Currier BCU 0993-16-06W - Slot 16-06W
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Reference Site:</b>	Currier 0993-16-07 Pad	<b>MD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Currier BCU 0993-16-06W	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	KLXDirectional-AD
<b>Reference Design:</b>	Design #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Currier 0993-16-07 Pad - Currier BCU 0993-16-13W - OH - Design #2												Offset Well Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard													
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance		Separation Factor	Warning	
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)				Between Centres (usft)	Between Ellipses (usft)			
5,000.0	4,919.9	4,520.1	4,151.5	22.8	30.1	-104.15	-1,540.5	-686.3	1,926.3	1,883.0	44.509		
5,100.0	5,017.9	4,609.3	4,231.6	23.3	30.8	-104.15	-1,576.5	-702.4	1,971.3	1,927.2	44.655		
5,200.0	5,116.0	4,698.6	4,311.8	23.7	31.5	-104.15	-1,612.5	-718.5	2,016.3	1,971.3	44.794		
5,300.0	5,214.1	4,787.9	4,391.9	24.2	32.2	-104.16	-1,648.4	-734.6	2,061.3	2,015.5	44.926		
5,400.0	5,312.2	4,877.2	4,472.0	24.6	32.9	-104.20	-1,684.4	-750.7	2,106.3	2,059.6	45.055		
5,500.0	5,410.6	4,966.7	4,552.3	25.1	33.6	-105.11	-1,720.5	-766.8	2,150.9	2,103.3	45.148		
5,600.0	5,509.6	5,056.5	4,632.9	25.7	34.3	-105.90	-1,756.6	-783.0	2,194.7	2,146.3	45.309		
5,700.0	5,609.0	5,146.4	4,713.5	26.2	35.0	-106.57	-1,792.9	-799.2	2,237.7	2,188.5	45.495		
5,800.0	5,708.7	5,236.4	4,794.3	26.6	35.7	-107.14	-1,829.1	-815.4	2,279.7	2,229.9	45.708		
5,900.0	5,808.6	5,400.2	4,941.9	27.0	36.9	-107.27	-1,894.0	-844.5	2,320.9	2,269.7	45.325		
6,000.0	5,908.6	6,395.4	5,908.6	27.1	40.5	179.95	-2,077.7	-926.6	2,335.2	2,279.4	41.903		
6,100.0	6,008.6	6,495.4	6,008.6	27.1	40.5	179.95	-2,077.7	-926.6	2,335.2	2,279.4	41.863		
6,200.0	6,108.6	6,595.4	6,108.6	27.2	40.5	179.95	-2,077.7	-926.6	2,335.2	2,279.3	41.816		
6,300.0	6,208.6	6,695.4	6,208.6	27.2	40.5	179.95	-2,077.7	-926.6	2,335.2	2,279.3	41.769		
6,400.0	6,308.6	6,795.4	6,308.6	27.2	40.5	179.95	-2,077.7	-926.6	2,335.2	2,279.2	41.722		
6,500.0	6,408.6	6,895.4	6,408.6	27.3	40.5	179.95	-2,077.7	-926.6	2,335.2	2,279.1	41.675		
6,600.0	6,508.6	6,995.4	6,508.6	27.3	40.6	179.95	-2,077.7	-926.6	2,335.2	2,279.1	41.627		
6,700.0	6,608.6	7,095.4	6,608.6	27.3	40.6	179.95	-2,077.7	-926.6	2,335.2	2,279.0	41.580		
6,800.0	6,708.6	7,195.4	6,708.6	27.4	40.6	179.95	-2,077.7	-926.6	2,335.2	2,279.0	41.532		
6,900.0	6,808.6	7,295.4	6,808.6	27.4	40.6	179.95	-2,077.7	-926.6	2,335.2	2,278.9	41.484		
7,000.0	6,908.6	7,395.4	6,908.6	27.4	40.6	179.95	-2,077.7	-926.6	2,335.2	2,278.8	41.436		
7,100.0	7,008.6	7,495.4	7,008.6	27.5	40.6	179.95	-2,077.7	-926.6	2,335.2	2,278.8	41.388		
7,200.0	7,108.6	7,595.4	7,108.6	27.5	40.6	179.95	-2,077.7	-926.6	2,335.2	2,278.7	41.339		
7,300.0	7,208.6	7,695.4	7,208.6	27.5	40.6	179.95	-2,077.7	-926.6	2,335.2	2,278.6	41.291		
7,400.0	7,308.6	7,795.4	7,308.6	27.6	40.6	179.95	-2,077.7	-926.6	2,335.2	2,278.6	41.242		
7,500.0	7,408.6	7,895.4	7,408.6	27.6	40.6	179.95	-2,077.7	-926.6	2,335.2	2,278.5	41.193		
7,600.0	7,508.6	7,995.4	7,508.6	27.6	40.6	179.95	-2,077.7	-926.6	2,335.2	2,278.4	41.144		
7,700.0	7,608.6	8,095.4	7,608.6	27.7	40.6	179.95	-2,077.7	-926.6	2,335.2	2,278.4	41.095		
7,800.0	7,708.6	8,195.4	7,708.6	27.7	40.6	179.95	-2,077.7	-926.6	2,335.2	2,278.3	41.045		
7,900.0	7,808.6	8,295.4	7,808.6	27.7	40.6	179.95	-2,077.7	-926.6	2,335.2	2,278.2	40.995		
8,000.0	7,908.6	8,304.8	7,818.0	27.8	40.6	179.95	-2,077.7	-926.6	2,336.9	2,279.6	40.755		
8,100.0	8,008.6	8,304.8	7,818.0	27.8	40.6	179.95	-2,077.7	-926.6	2,342.9	2,285.3	40.619		
8,200.0	8,108.6	8,304.8	7,818.0	27.9	40.6	179.95	-2,077.7	-926.6	2,353.2	2,295.2	40.610		
8,300.0	8,208.6	8,304.8	7,818.0	27.9	40.6	179.95	-2,077.7	-926.6	2,367.6	2,309.5	40.723		
8,400.0	8,308.6	8,304.8	7,818.0	27.9	40.6	179.95	-2,077.7	-926.6	2,386.2	2,327.9	40.954		
8,500.0	8,408.6	8,304.8	7,818.0	28.0	40.6	179.95	-2,077.7	-926.6	2,408.7	2,350.4	41.298		
8,600.0	8,508.6	8,304.8	7,818.0	28.0	40.6	179.95	-2,077.7	-926.6	2,435.2	2,376.8	41.750		
8,700.0	8,608.6	8,304.8	7,818.0	28.0	40.6	179.95	-2,077.7	-926.6	2,465.4	2,407.1	42.304		
8,757.4	8,666.0	8,304.8	7,818.0	28.1	40.6	179.95	-2,077.7	-926.6	2,484.4	2,426.2	42.672		

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Currier BCU 0993-16-06W - Slot 16-06W
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Reference Site:</b>	Currier 0993-16-07 Pad	<b>MD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Currier BCU 0993-16-06W	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	KLXDirectional-AD
<b>Reference Design:</b>	Design #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Currier 0993-16-07 Pad - Currier BCU 0993-16-14E - OH - Design #2												Offset Well Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard													
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 +N/-S (usft)	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	62.20	14.7	28.0	31.6				
100.0	100.0	100.0	100.0	0.8	0.8	62.20	14.7	28.0	31.6	30.0	19.959		
108.5	108.5	108.5	108.5	0.8	0.8	62.20	14.7	28.0	31.6	29.9	18.802	CC	
200.0	200.0	200.0	200.0	1.4	1.2	62.35	14.7	28.0	31.6	29.0	11.932		
300.0	300.0	299.7	299.7	1.9	2.4	67.77	12.1	29.7	32.1	28.4	8.828	ES	
400.0	400.0	399.0	398.7	2.2	4.0	79.92	6.0	33.7	34.2	29.5	7.238		
500.0	500.0	497.5	496.5	2.4	5.1	169.77	-3.6	40.0	40.6	34.5	6.640	SF	
600.0	599.9	594.4	592.1	3.1	6.0	-176.81	-16.5	48.4	55.1	47.0	6.773		
700.0	699.7	688.8	684.7	4.1	6.8	-168.13	-32.4	58.7	78.3	68.2	7.749		
800.0	799.2	780.3	773.4	4.9	7.5	-163.00	-50.7	70.7	109.2	97.6	9.385		
900.0	898.3	868.1	857.8	5.6	8.2	-159.90	-71.1	84.0	147.1	134.2	11.391		
1,000.0	996.8	951.9	937.4	6.3	8.7	-157.90	-93.1	98.3	191.3	177.2	13.646		
1,100.0	1,094.9	1,031.7	1,012.3	6.5	9.3	-156.77	-116.3	113.5	240.5	225.8	16.354		
1,200.0	1,193.0	1,108.5	1,083.3	6.8	9.8	-155.90	-140.6	129.4	292.7	277.3	19.026		
1,300.0	1,291.1	1,182.2	1,150.6	7.1	10.2	-155.15	-165.9	145.8	347.6	331.5	21.675		
1,400.0	1,389.1	1,252.9	1,214.1	7.4	10.7	-154.49	-191.7	162.7	405.0	388.3	24.310		
1,500.0	1,487.2	1,320.6	1,274.1	7.8	11.1	-153.91	-218.1	179.9	464.8	447.5	26.934		
1,600.0	1,585.3	1,385.5	1,330.6	8.1	11.5	-153.39	-244.7	197.3	526.8	509.0	29.552		
1,700.0	1,683.4	1,447.5	1,383.9	8.5	11.8	-152.92	-271.4	214.7	590.9	572.5	32.169		
1,800.0	1,781.4	1,500.0	1,428.2	8.9	12.1	-152.54	-294.9	230.0	657.0	638.3	35.020		
1,900.0	1,879.5	1,563.5	1,481.0	9.3	12.4	-152.11	-324.5	249.3	724.9	705.6	37.573		
2,000.0	1,977.6	1,631.8	1,537.1	9.7	12.6	-151.68	-357.2	270.7	794.1	774.3	40.055		
2,100.0	2,075.7	1,703.9	1,596.2	10.1	12.8	-151.30	-391.7	293.2	863.3	842.9	42.292		
2,200.0	2,173.7	1,776.0	1,655.3	10.5	13.1	-150.98	-426.2	315.7	932.5	911.5	44.368		
2,300.0	2,271.8	1,848.0	1,714.4	10.9	13.3	-150.70	-460.8	338.3	1,001.8	980.2	46.304		
2,400.0	2,369.9	1,920.1	1,773.5	11.3	13.6	-150.46	-495.3	360.8	1,071.1	1,048.8	48.103		
2,500.0	2,468.0	1,992.2	1,832.6	11.7	13.8	-150.24	-529.8	383.3	1,140.3	1,117.4	49.771		
2,600.0	2,566.0	2,064.2	1,891.7	12.1	14.1	-150.06	-564.3	405.9	1,209.6	1,186.1	51.368		
2,700.0	2,664.1	2,136.3	1,950.8	12.5	14.5	-149.89	-598.9	428.4	1,278.9	1,254.6	52.708		
2,800.0	2,762.2	2,208.3	2,009.9	13.0	15.3	-149.74	-633.4	450.9	1,348.2	1,323.3	54.132		
2,900.0	2,860.3	2,280.4	2,069.0	13.4	16.1	-149.60	-667.9	473.4	1,417.5	1,391.9	55.393		
3,000.0	2,958.3	2,352.5	2,128.1	13.8	16.8	-149.48	-702.4	496.0	1,486.8	1,460.5	56.580		
3,100.0	3,056.4	2,424.5	2,187.2	14.3	17.6	-149.36	-737.0	518.5	1,556.1	1,529.1	57.696		
3,200.0	3,154.5	2,496.6	2,246.3	14.7	18.4	-149.26	-771.5	541.0	1,625.4	1,597.7	58.742		
3,300.0	3,252.6	2,568.6	2,305.4	15.1	19.1	-149.17	-806.0	563.6	1,694.7	1,666.3	59.712		
3,400.0	3,350.6	2,640.7	2,364.5	15.6	19.9	-149.08	-840.5	586.1	1,764.0	1,734.9	60.628		
3,500.0	3,448.7	2,712.8	2,423.6	16.0	20.7	-149.00	-875.1	608.6	1,833.3	1,803.5	61.491		
3,600.0	3,546.8	2,784.8	2,482.7	16.5	21.5	-148.92	-909.6	631.1	1,902.6	1,872.1	62.300		
3,700.0	3,644.9	2,856.9	2,541.8	16.9	22.2	-148.85	-944.1	653.7	1,971.9	1,940.7	63.060		
3,800.0	3,743.0	2,928.9	2,600.9	17.4	23.0	-148.79	-978.6	676.2	2,041.2	2,009.2	63.779		
3,900.0	3,841.0	3,001.0	2,660.0	17.8	23.8	-148.73	-1,013.2	698.7	2,110.6	2,077.8	64.458		
4,000.0	3,939.1	3,073.1	2,719.1	18.3	24.6	-148.67	-1,047.7	721.3	2,179.9	2,146.4	65.096		
4,100.0	4,037.2	3,145.1	2,778.2	18.7	25.3	-148.62	-1,082.2	743.8	2,249.2	2,215.0	65.700		
4,200.0	4,135.3	3,217.2	2,837.3	19.2	26.1	-148.57	-1,116.7	766.3	2,318.5	2,283.5	66.272		
4,300.0	4,233.3	3,289.2	2,896.5	19.6	26.9	-148.52	-1,151.3	788.9	2,387.8	2,352.1	66.814		
4,400.0	4,331.4	3,361.3	2,955.6	20.1	27.7	-148.48	-1,185.8	811.4	2,457.2	2,420.7	67.325		
4,500.0	4,429.5	3,433.4	3,014.7	20.5	28.4	-148.44	-1,220.3	833.9	2,526.5	2,489.2	67.812		
4,600.0	4,527.6	3,505.4	3,073.8	21.0	29.2	-148.40	-1,254.8	856.4	2,595.8	2,557.8	68.274		
4,700.0	4,625.6	3,577.5	3,132.9	21.4	30.0	-148.36	-1,289.4	879.0	2,665.1	2,626.3	68.712		
4,800.0	4,723.7	3,649.5	3,192.0	21.9	30.8	-148.32	-1,323.9	901.5	2,734.4	2,694.9	69.128		
4,900.0	4,821.8	3,721.6	3,251.1	22.3	31.6	-148.29	-1,358.4	924.0	2,803.8	2,763.4	69.524		

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Currier BCU 0993-16-06W - Slot 16-06W
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Reference Site:</b>	Currier 0993-16-07 Pad	<b>MD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Currier BCU 0993-16-06W	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	KLXDirectional-AD
<b>Reference Design:</b>	Design #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design											Currier 0993-16-07 Pad - Currier BCU 0993-16-14E - OH - Design #2	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		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance		Separation Factor	Warning	
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)				Between Centres (usft)	Between Ellipses (usft)			
5,000.0	4,919.9	3,793.7	3,310.2	22.8	32.3	-148.26	-1,392.9	946.6	2,873.1	2,832.0	69.902		
5,100.0	5,017.9	3,865.7	3,369.3	23.3	33.1	-148.23	-1,427.5	969.1	2,942.4	2,900.5	70.260		
5,200.0	5,116.0	3,937.8	3,428.4	23.7	33.9	-148.20	-1,462.0	991.6	3,011.7	2,969.1	70.602		
5,300.0	5,214.1	4,009.8	3,487.5	24.2	34.7	-148.17	-1,496.5	1,014.1	3,081.1	3,037.6	70.929		
5,400.0	5,312.2	4,081.9	3,546.6	24.6	35.5	-148.19	-1,531.0	1,036.7	3,150.4	3,106.2	71.244		
5,500.0	5,410.6	4,155.1	3,606.6	25.1	36.3	-149.11	-1,566.1	1,059.5	3,218.5	3,173.5	71.450		
5,600.0	5,509.6	4,230.1	3,668.2	25.7	37.1	-149.91	-1,602.0	1,083.0	3,284.5	3,238.6	71.594		
5,700.0	5,609.0	4,307.1	3,731.3	26.2	37.9	-150.80	-1,638.9	1,107.1	3,348.1	3,301.4	71.695		
5,800.0	5,708.7	4,385.8	3,795.8	26.6	38.8	-151.20	-1,676.6	1,131.7	3,409.4	3,361.9	71.764		
5,900.0	5,808.6	4,466.1	3,861.7	27.0	39.6	-151.71	-1,715.1	1,156.8	3,468.2	3,419.9	71.823		
6,000.0	5,908.6	4,547.8	3,928.8	27.1	40.5	133.62	-1,754.3	1,182.3	3,524.8	3,475.9	72.123		
6,100.0	6,008.6	4,629.9	3,996.0	27.1	41.4	133.83	-1,793.6	1,208.0	3,581.0	3,531.6	72.468		
6,200.0	6,108.6	4,711.9	4,063.3	27.2	42.3	134.03	-1,832.8	1,233.6	3,637.2	3,587.2	72.797		
6,300.0	6,208.6	4,793.9	4,130.6	27.2	43.2	134.22	-1,872.1	1,259.3	3,693.5	3,642.9	73.117		
6,400.0	6,308.6	4,875.9	4,197.8	27.2	44.1	134.41	-1,911.4	1,284.9	3,749.7	3,698.7	73.426		
6,500.0	6,408.6	4,957.7	4,265.1	27.3	45.0	134.60	-1,950.7	1,310.5	3,805.9	3,754.5	73.735		
6,600.0	6,508.6	5,039.7	4,332.4	27.3	45.9	134.79	-1,990.0	1,336.1	3,862.1	3,810.3	74.044		
6,700.0	6,608.6	5,121.7	4,399.7	27.3	46.8	134.98	-2,029.3	1,361.7	3,918.3	3,866.1	74.353		
6,800.0	6,708.6	5,203.7	4,467.0	27.4	47.7	135.17	-2,068.6	1,387.3	3,974.5	3,921.9	74.662		
6,900.0	6,808.6	5,285.7	4,534.3	27.4	48.6	135.36	-2,107.9	1,412.9	4,030.7	3,977.7	74.971		
7,000.0	6,908.6	5,367.7	4,601.6	27.4	49.5	135.55	-2,147.2	1,438.5	4,086.9	4,033.5	75.280		
7,100.0	7,008.6	5,449.7	4,668.9	27.5	50.4	135.74	-2,186.5	1,464.1	4,143.1	4,089.3	75.589		
7,200.0	7,108.6	5,531.7	4,736.2	27.5	51.3	135.93	-2,225.8	1,489.7	4,199.3	4,145.1	75.898		
7,300.0	7,208.6	5,613.7	4,803.5	27.5	52.2	136.12	-2,265.1	1,515.3	4,255.5	4,200.9	76.207		
7,400.0	7,308.6	5,695.7	4,870.8	27.6	53.1	136.31	-2,304.4	1,540.9	4,311.7	4,256.7	76.516		
7,500.0	7,408.6	5,777.7	4,938.1	27.6	54.0	136.50	-2,343.7	1,566.5	4,367.9	4,312.5	76.825		
7,600.0	7,508.6	5,859.7	5,005.4	27.6	54.9	136.69	-2,383.0	1,592.1	4,424.1	4,368.3	77.134		
7,700.0	7,608.6	5,941.7	5,072.7	27.7	55.8	136.88	-2,422.3	1,617.7	4,480.3	4,424.1	77.443		
7,800.0	7,708.6	6,023.7	5,140.0	27.7	56.7	137.07	-2,461.6	1,643.3	4,536.5	4,479.9	77.752		
7,900.0	7,808.6	6,105.7	5,207.3	27.7	57.6	137.26	-2,500.9	1,668.9	4,592.7	4,535.7	78.061		
8,000.0	7,908.6	6,187.7	5,274.6	27.8	58.5	137.45	-2,540.2	1,694.5	4,648.9	4,591.5	78.370		
8,100.0	8,008.6	6,269.7	5,341.9	27.8	59.4	137.64	-2,579.5	1,720.1	4,705.1	4,647.3	78.679		
8,200.0	8,108.6	6,351.7	5,409.2	27.9	60.3	137.83	-2,618.8	1,745.7	4,761.3	4,703.1	78.988		
8,300.0	8,208.6	6,433.7	5,476.5	27.9	61.2	138.02	-2,658.1	1,771.3	4,817.5	4,758.9	79.297		
8,400.0	8,308.6	6,515.7	5,543.8	27.9	62.1	138.21	-2,697.4	1,796.9	4,873.7	4,814.7	79.606		
8,500.0	8,408.6	6,597.7	5,611.1	28.0	63.0	138.40	-2,736.7	1,822.5	4,929.9	4,870.5	79.915		
8,600.0	8,508.6	6,679.7	5,678.4	28.0	63.9	138.59	-2,776.0	1,848.1	4,986.1	4,926.3	80.224		
8,700.0	8,608.6	6,761.7	5,745.7	28.0	64.8	138.78	-2,815.3	1,873.7	5,042.3	4,982.1	80.533		
8,757.4	8,666.0	6,843.7	5,813.0	28.1	65.7	138.97	-2,854.6	1,899.3	5,098.5	5,037.9	80.842		

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Currier BCU 0993-16-06W - Slot 16-06W
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Reference Site:</b>	Currier 0993-16-07 Pad	<b>MD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Currier BCU 0993-16-06W	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	KLXDirectional-AD
<b>Reference Design:</b>	Design #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design											Currier 0993-16-07 Pad - Currier BCU 0993-16-14W - OH - Design #3		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	133.78	-6.9	7.2	10.0					
100.0	100.0	100.0	100.0	0.8	0.8	133.78	-6.9	7.2	10.0	8.4	6.311			
200.0	200.0	200.0	200.0	1.4	1.4	133.78	-6.9	7.2	10.0	7.2	3.534	CC, ES		
300.0	300.0	299.6	299.6	1.9	2.1	140.77	-9.1	7.4	11.7	7.8	3.020			
400.0	400.0	398.8	398.6	2.2	3.8	152.80	-15.5	8.0	17.5	11.7	3.011	SF		
500.0	500.0	497.4	496.6	2.4	4.5	-124.64	-26.1	8.9	27.9	21.2	4.130			
600.0	599.9	595.0	593.1	3.1	4.9	-121.15	-40.4	8.6	43.6	35.9	5.705			
700.0	699.7	691.2	687.7	4.1	5.8	-119.53	-58.1	6.5	64.1	55.2	7.230			
800.0	799.2	785.6	779.7	4.9	6.5	-118.68	-78.9	2.7	89.3	79.4	8.949			
900.0	898.3	877.9	868.7	5.6	7.2	-118.15	-102.5	-2.7	119.1	108.1	10.838			
1,000.0	996.8	967.9	954.6	6.3	7.9	-117.75	-128.5	-9.7	153.3	141.4	12.840			
1,100.0	1,094.9	1,055.5	1,037.1	6.5	8.5	-117.67	-156.7	-17.9	191.3	178.6	15.077			
1,200.0	1,193.0	1,140.9	1,116.5	6.8	9.1	-117.16	-186.8	-27.4	231.9	218.4	17.241			
1,300.0	1,291.1	1,224.1	1,192.6	7.1	9.6	-116.34	-218.6	-37.9	275.0	260.8	19.368			
1,400.0	1,389.1	1,300.0	1,260.9	7.4	10.1	-115.43	-249.8	-48.7	320.7	305.9	21.601			
1,500.0	1,487.2	1,383.2	1,334.6	7.8	10.6	-114.34	-286.2	-61.8	368.8	353.2	23.575			
1,600.0	1,585.3	1,458.9	1,400.3	8.1	11.0	-113.30	-321.4	-74.8	419.3	403.0	25.669			
1,700.0	1,683.4	1,533.8	1,464.2	8.5	11.4	-112.26	-358.0	-88.7	472.2	455.2	27.875			
1,800.0	1,781.4	1,617.8	1,535.3	8.9	11.7	-111.25	-399.8	-104.6	525.9	508.3	29.916			
1,900.0	1,879.5	1,701.8	1,606.4	9.3	12.0	-110.42	-441.6	-120.6	579.8	561.5	31.785			
2,000.0	1,977.6	1,785.8	1,677.5	9.7	12.3	-109.74	-483.3	-136.5	633.7	614.7	33.489			
2,100.0	2,075.7	1,869.8	1,748.6	10.1	12.6	-109.16	-525.1	-152.5	687.6	668.0	35.049			
2,200.0	2,173.7	1,953.8	1,819.8	10.5	12.9	-108.66	-566.9	-168.4	741.6	721.3	36.483			
2,300.0	2,271.8	2,037.8	1,890.9	10.9	13.3	-108.23	-608.7	-184.4	795.7	774.6	37.809			
2,400.0	2,369.9	2,121.8	1,962.0	11.3	13.7	-107.86	-650.4	-200.3	849.8	828.0	39.020			
2,500.0	2,468.0	2,205.8	2,033.1	11.7	14.2	-107.53	-692.2	-216.3	903.8	881.3	40.136			
2,600.0	2,566.0	2,289.8	2,104.2	12.1	14.8	-107.24	-734.0	-232.2	958.0	934.7	41.165			
2,700.0	2,664.1	2,373.8	2,175.3	12.5	15.5	-106.98	-775.8	-248.2	1,012.1	988.1	42.116			
2,800.0	2,762.2	2,457.8	2,246.4	13.0	16.2	-106.74	-817.6	-264.1	1,066.2	1,041.4	42.995			
2,900.0	2,860.3	2,541.8	2,317.5	13.4	16.9	-106.53	-859.3	-280.1	1,120.4	1,094.8	43.810			
3,000.0	2,958.3	2,625.8	2,388.6	13.8	17.6	-106.34	-901.1	-296.0	1,174.5	1,148.2	44.567			
3,100.0	3,056.4	2,709.8	2,459.7	14.3	18.4	-106.16	-942.9	-312.0	1,228.7	1,201.6	45.271			
3,200.0	3,154.5	2,793.8	2,530.8	14.7	19.1	-106.00	-984.7	-327.9	1,282.9	1,255.0	45.926			
3,300.0	3,252.6	2,877.8	2,601.9	15.1	19.9	-105.85	-1,026.4	-343.9	1,337.1	1,308.3	46.536			
3,400.0	3,350.6	2,961.8	2,673.0	15.6	20.7	-105.72	-1,068.2	-359.8	1,391.3	1,361.7	47.106			
3,500.0	3,448.7	3,045.8	2,744.1	16.0	21.4	-105.59	-1,110.0	-375.8	1,445.5	1,415.1	47.640			
3,600.0	3,546.8	3,129.8	2,815.2	16.5	22.2	-105.47	-1,151.8	-391.7	1,499.7	1,468.5	48.140			
3,700.0	3,644.9	3,213.8	2,886.4	16.9	23.0	-105.37	-1,193.6	-407.7	1,553.9	1,521.9	48.609			
3,800.0	3,743.0	3,297.8	2,957.5	17.4	23.7	-105.26	-1,235.3	-423.6	1,608.1	1,575.3	49.049			
3,900.0	3,841.0	3,381.8	3,028.6	17.8	24.5	-105.17	-1,277.1	-439.6	1,662.3	1,628.7	49.463			
4,000.0	3,939.1	3,465.8	3,099.7	18.3	25.3	-105.08	-1,318.9	-455.5	1,716.5	1,682.1	49.852			
4,100.0	4,037.2	3,549.8	3,170.8	18.7	26.0	-105.00	-1,360.7	-471.5	1,770.7	1,735.4	50.220			
4,200.0	4,135.3	3,633.8	3,241.9	19.2	26.8	-104.92	-1,402.5	-487.4	1,824.9	1,788.8	50.567			
4,300.0	4,233.3	3,717.8	3,313.0	19.6	27.6	-104.84	-1,444.2	-503.4	1,879.1	1,842.2	50.895			
4,400.0	4,331.4	3,801.8	3,384.1	20.1	28.4	-104.77	-1,486.0	-519.4	1,933.4	1,895.6	51.205			
4,500.0	4,429.5	3,885.8	3,455.2	20.5	29.1	-104.71	-1,527.8	-535.3	1,987.6	1,949.0	51.498			
4,600.0	4,527.6	3,969.8	3,526.3	21.0	29.9	-104.65	-1,569.6	-551.3	2,041.8	2,002.4	51.777			
4,700.0	4,625.6	4,053.8	3,597.4	21.4	30.7	-104.59	-1,611.3	-567.2	2,096.0	2,055.8	52.041			
4,800.0	4,723.7	4,137.8	3,668.5	21.9	31.4	-104.53	-1,653.1	-583.2	2,150.3	2,109.2	52.291			
4,900.0	4,821.8	4,221.8	3,739.6	22.3	32.2	-104.48	-1,694.9	-599.1	2,204.5	2,162.5	52.530			
5,000.0	4,919.9	4,305.8	3,810.7	22.8	33.0	-104.43	-1,736.7	-615.1	2,258.7	2,215.9	52.757			

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Currier BCU 0993-16-06W - Slot 16-06W
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Reference Site:</b>	Currier 0993-16-07 Pad	<b>MD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Currier BCU 0993-16-06W	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	KLXDirectional-AD
<b>Reference Design:</b>	Design #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design											Offset Site Error:	0.0 usft
Currier 0993-16-07 Pad - Currier BCU 0993-16-14W - OH - Design #3											Offset Well Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning
5,100.0	5,017.9	4,389.8	3,881.8	23.3	33.8	-104.38	-1,778.5	-631.0	2,313.0	2,269.3	52.973	
5,200.0	5,116.0	4,473.8	3,953.0	23.7	34.5	-104.33	-1,820.2	-647.0	2,367.2	2,322.7	53.178	
5,300.0	5,214.1	4,557.8	4,024.1	24.2	35.3	-104.29	-1,862.0	-662.9	2,421.4	2,376.1	53.374	
5,400.0	5,312.2	4,641.8	4,095.2	24.6	36.1	-104.30	-1,903.8	-678.9	2,475.7	2,429.5	53.565	
5,500.0	5,410.6	4,726.0	4,166.4	25.1	36.9	-105.45	-1,945.7	-694.9	2,529.5	2,482.4	53.716	
5,600.0	5,509.6	4,810.5	4,238.0	25.7	37.7	-106.48	-1,987.7	-710.9	2,582.6	2,534.7	53.945	
5,700.0	5,609.0	4,895.2	4,309.7	26.2	38.4	-107.40	-2,029.8	-727.0	2,634.8	2,586.2	54.206	
5,800.0	5,708.7	4,980.0	4,381.4	26.6	39.2	-108.22	-2,072.0	-743.1	2,686.2	2,636.9	54.499	
5,900.0	5,808.6	5,064.8	4,453.2	27.0	40.0	-108.94	-2,114.2	-759.2	2,736.8	2,686.8	54.826	
6,000.0	5,908.6	5,149.5	4,524.9	27.1	40.8	176.36	-2,156.3	-775.3	2,786.5	2,736.1	55.224	
6,100.0	6,008.6	6,722.2	6,008.6	27.1	48.4	179.99	-2,557.8	-928.6	2,815.3	2,757.4	48.628	
6,200.0	6,108.6	6,822.2	6,108.6	27.2	48.4	179.99	-2,557.8	-928.6	2,815.3	2,757.3	48.576	
6,300.0	6,208.6	6,922.2	6,208.6	27.2	48.4	179.99	-2,557.8	-928.6	2,815.3	2,757.3	48.525	
6,400.0	6,308.6	7,022.2	6,308.6	27.2	48.4	179.99	-2,557.8	-928.6	2,815.3	2,757.2	48.473	
6,500.0	6,408.6	7,122.2	6,408.6	27.3	48.4	179.99	-2,557.8	-928.6	2,815.3	2,757.1	48.421	
6,600.0	6,508.6	7,222.2	6,508.6	27.3	48.4	179.99	-2,557.8	-928.6	2,815.3	2,757.1	48.368	
6,700.0	6,608.6	7,322.2	6,608.6	27.3	48.4	179.99	-2,557.8	-928.6	2,815.3	2,757.0	48.316	
6,800.0	6,708.6	7,422.2	6,708.6	27.4	48.4	179.99	-2,557.8	-928.6	2,815.3	2,757.0	48.263	
6,900.0	6,808.6	7,522.2	6,808.6	27.4	48.4	179.99	-2,557.8	-928.6	2,815.3	2,756.9	48.210	
7,000.0	6,908.6	7,622.2	6,908.6	27.4	48.4	179.99	-2,557.8	-928.6	2,815.3	2,756.8	48.157	
7,100.0	7,008.6	7,722.2	7,008.6	27.5	48.4	179.99	-2,557.8	-928.6	2,815.3	2,756.8	48.104	
7,200.0	7,108.6	7,822.2	7,108.6	27.5	48.4	179.99	-2,557.8	-928.6	2,815.3	2,756.7	48.051	
7,300.0	7,208.6	7,922.2	7,208.6	27.5	48.4	179.99	-2,557.8	-928.6	2,815.3	2,756.6	47.997	
7,400.0	7,308.6	8,022.2	7,308.6	27.6	48.4	179.99	-2,557.8	-928.6	2,815.3	2,756.6	47.943	
7,500.0	7,408.6	8,122.2	7,408.6	27.6	48.5	179.99	-2,557.8	-928.6	2,815.3	2,756.5	47.889	
7,600.0	7,508.6	8,222.2	7,508.6	27.6	48.5	179.99	-2,557.8	-928.6	2,815.3	2,756.4	47.835	
7,700.0	7,608.6	8,322.2	7,608.6	27.7	48.5	179.99	-2,557.8	-928.6	2,815.3	2,756.4	47.781	
7,800.0	7,708.6	8,422.2	7,708.6	27.7	48.5	179.99	-2,557.8	-928.6	2,815.3	2,756.3	47.726	
7,900.0	7,808.6	8,522.2	7,808.6	27.7	48.5	179.99	-2,557.8	-928.6	2,815.3	2,756.2	47.672	
8,000.0	7,908.6	8,622.2	7,908.6	27.8	48.5	179.99	-2,557.8	-928.6	2,815.3	2,756.2	47.617	
8,100.0	8,008.6	8,722.2	8,008.6	27.8	48.5	179.99	-2,557.8	-928.6	2,815.3	2,756.1	47.562	
8,200.0	8,108.6	8,822.2	8,108.6	27.9	48.5	179.99	-2,557.8	-928.6	2,815.3	2,756.0	47.507	
8,300.0	8,208.6	8,922.2	8,208.6	27.9	48.5	179.99	-2,557.8	-928.6	2,815.3	2,756.0	47.451	
8,400.0	8,308.6	9,022.2	8,308.6	27.9	48.5	179.99	-2,557.8	-928.6	2,815.3	2,755.9	47.396	
8,500.0	8,408.6	9,122.2	8,408.6	28.0	48.5	179.99	-2,557.8	-928.6	2,815.3	2,755.8	47.340	
8,600.0	8,508.6	9,222.2	8,508.6	28.0	48.5	179.99	-2,557.8	-928.6	2,815.3	2,755.7	47.285	
8,700.0	8,608.6	9,322.2	8,608.6	28.0	48.5	179.99	-2,557.8	-928.6	2,815.3	2,755.7	47.230	
8,757.4	8,666.0	9,379.6	8,666.0	28.1	48.5	179.99	-2,557.8	-928.6	2,815.3	2,755.6	47.207	

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Currier BCU 0993-16-06W - Slot 16-06W
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Reference Site:</b>	Currier 0993-16-07 Pad	<b>MD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Currier BCU 0993-16-06W	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	KLXDirectional-AD
<b>Reference Design:</b>	Design #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Currier 0993-16-07 Pad - Currier BCU 0993-16-15E - OH - Design #3												Offset Well Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard													
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	70.34	7.5	21.1	22.4				
100.0	100.0	100.0	100.0	0.8	0.8	70.34	7.5	21.1	22.4	20.8	14.118		
200.0	200.0	200.0	200.0	1.4	1.4	70.34	7.5	21.1	22.4	19.5	7.905	CC	
300.0	300.0	299.8	299.7	1.9	2.1	75.71	5.6	22.1	22.8	19.2	6.195	ES	
400.0	400.0	399.2	398.9	2.2	3.8	90.00	0.0	25.3	25.3	20.5	5.177		
500.0	500.0	497.8	496.9	2.4	4.9	-178.62	-9.3	30.6	32.4	26.0	5.079	SF	
600.0	599.9	594.9	592.9	3.1	5.9	-166.23	-22.0	37.8	47.6	39.3	5.727		
700.0	699.7	689.8	686.0	4.1	6.7	-159.42	-37.8	46.8	70.8	60.7	7.002		
800.0	799.2	781.7	775.5	4.9	7.4	-155.83	-56.4	57.2	101.3	89.7	8.772		
900.0	898.3	870.2	860.7	5.6	8.0	-153.82	-77.1	69.0	138.3	125.6	10.839		
1,000.0	996.8	954.7	941.1	6.3	8.6	-152.58	-99.6	81.8	181.6	167.8	13.120		
1,100.0	1,094.9	1,035.4	1,017.0	6.5	9.2	-152.01	-123.5	95.3	229.9	215.3	15.817		
1,200.0	1,193.0	1,113.1	1,089.1	6.8	9.7	-151.52	-148.7	109.5	281.0	265.8	18.476		
1,300.0	1,291.1	1,187.7	1,157.4	7.1	10.1	-151.04	-174.8	124.3	334.9	319.1	21.110		
1,400.0	1,389.1	1,259.3	1,222.0	7.4	10.6	-150.56	-201.7	139.6	391.4	374.9	23.729		
1,500.0	1,487.2	1,328.0	1,283.0	7.8	11.0	-150.12	-229.2	155.1	450.3	433.2	26.336		
1,600.0	1,585.3	1,400.0	1,345.9	8.1	11.4	-149.66	-259.6	172.4	511.5	493.7	28.750		
1,700.0	1,683.4	1,456.8	1,394.8	8.5	11.7	-149.31	-284.9	186.7	574.7	556.5	31.536		
1,800.0	1,781.4	1,517.1	1,445.8	8.9	12.1	-148.94	-312.8	202.5	640.0	621.2	34.133		
1,900.0	1,879.5	1,574.7	1,493.8	9.3	12.4	-148.60	-340.6	218.2	707.2	687.9	36.733		
2,000.0	1,977.6	1,629.8	1,538.9	9.7	12.7	-148.28	-368.1	233.8	776.1	756.4	39.336		
2,100.0	2,075.7	1,682.5	1,581.3	10.1	12.9	-147.99	-395.4	249.2	846.7	826.5	41.939		
2,200.0	2,173.7	1,732.9	1,621.1	10.5	13.2	-147.72	-422.1	264.4	918.8	898.2	44.647		
2,300.0	2,271.8	1,783.9	1,660.8	10.9	13.4	-147.45	-450.1	280.2	992.3	971.4	47.342		
2,400.0	2,369.9	1,851.0	1,712.7	11.3	13.6	-147.13	-487.1	301.2	1,066.4	1,044.9	49.541		
2,500.0	2,468.0	1,918.1	1,764.6	11.7	13.8	-146.85	-524.1	322.2	1,140.5	1,118.4	51.588		
2,600.0	2,566.0	1,985.2	1,816.4	12.1	14.0	-146.60	-561.1	343.1	1,214.6	1,191.8	53.493		
2,700.0	2,664.1	2,052.2	1,868.3	12.5	14.2	-146.38	-598.1	364.1	1,288.6	1,265.4	55.322		
2,800.0	2,762.2	2,119.3	1,920.2	13.0	14.6	-146.19	-635.1	385.0	1,362.8	1,338.8	56.916		
2,900.0	2,860.3	2,186.4	1,972.0	13.4	15.3	-146.02	-672.1	406.0	1,436.9	1,412.3	58.427		
3,000.0	2,958.3	2,253.5	2,023.9	13.8	16.1	-145.86	-709.1	427.0	1,511.0	1,485.8	59.949		
3,100.0	3,056.4	2,320.6	2,075.8	14.3	16.9	-145.72	-746.1	447.9	1,585.1	1,559.3	61.342		
3,200.0	3,154.5	2,387.6	2,127.6	14.7	17.7	-145.59	-783.2	468.9	1,659.2	1,632.7	62.639		
3,300.0	3,252.6	2,454.7	2,179.5	15.1	18.5	-145.47	-820.2	489.9	1,733.3	1,706.2	63.850		
3,400.0	3,350.6	2,521.8	2,231.4	15.6	19.3	-145.36	-857.2	510.8	1,807.5	1,779.7	64.997		
3,500.0	3,448.7	2,588.9	2,283.2	16.0	20.1	-145.26	-894.2	531.8	1,881.6	1,853.1	66.074		
3,600.0	3,546.8	2,656.0	2,335.1	16.5	20.9	-145.17	-931.2	552.7	1,955.7	1,926.6	67.084		
3,700.0	3,644.9	2,723.0	2,387.0	16.9	21.7	-145.08	-968.2	573.7	2,029.9	2,000.0	68.041		
3,800.0	3,743.0	2,790.1	2,438.9	17.4	22.5	-145.00	-1,005.2	594.7	2,104.0	2,073.5	68.943		
3,900.0	3,841.0	2,857.2	2,490.7	17.8	23.3	-144.93	-1,042.2	615.6	2,178.2	2,146.9	69.790		
4,000.0	3,939.1	2,924.3	2,542.6	18.3	24.1	-144.86	-1,079.2	636.6	2,252.3	2,220.4	70.595		
4,100.0	4,037.2	2,991.4	2,594.5	18.7	24.9	-144.79	-1,116.3	657.6	2,326.4	2,293.8	71.356		
4,200.0	4,135.3	3,058.4	2,646.3	19.2	25.7	-144.73	-1,153.3	678.5	2,400.6	2,367.3	72.072		
4,300.0	4,233.3	3,125.5	2,698.2	19.6	26.5	-144.68	-1,190.3	699.5	2,474.7	2,440.7	72.754		
4,400.0	4,331.4	3,192.6	2,750.1	20.1	27.3	-144.62	-1,227.3	720.4	2,548.9	2,514.2	73.400		
4,500.0	4,429.5	3,259.7	2,801.9	20.5	28.1	-144.57	-1,264.3	741.4	2,623.0	2,587.6	74.010		
4,600.0	4,527.6	3,326.7	2,853.8	21.0	28.9	-144.52	-1,301.3	762.4	2,697.2	2,661.0	74.592		
4,700.0	4,625.6	3,393.8	2,905.7	21.4	29.7	-144.48	-1,338.3	783.3	2,771.3	2,734.4	75.144		
4,800.0	4,723.7	3,460.9	2,957.5	21.9	30.5	-144.43	-1,375.3	804.3	2,845.5	2,807.9	75.667		
4,900.0	4,821.8	3,528.0	3,009.4	22.3	31.4	-144.39	-1,412.4	825.3	2,919.6	2,881.3	76.166		
5,000.0	4,919.9	3,595.1	3,061.3	22.8	32.2	-144.35	-1,449.4	846.2	2,993.8	2,954.7	76.641		

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Currier BCU 0993-16-06W - Slot 16-06W
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Reference Site:</b>	Currier 0993-16-07 Pad	<b>MD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Currier BCU 0993-16-06W	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	KLXDirectional-AD
<b>Reference Design:</b>	Design #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design											Currier 0993-16-07 Pad - Currier BCU 0993-16-15E - OH - Design #3	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		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance		Separation Factor	Warning	
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)				Between Centres (usft)	Between Ellipses (usft)			
5,100.0	5,017.9	3,662.1	3,113.2	23.3	33.0	-144.32	-1,486.4	867.2	3,067.9	3,028.1	77.091		
5,200.0	5,116.0	3,729.2	3,165.0	23.7	33.8	-144.28	-1,523.4	888.1	3,142.1	3,101.6	77.522		
5,300.0	5,214.1	3,796.3	3,216.9	24.2	34.6	-144.25	-1,560.4	909.1	3,216.2	3,175.0	77.933		
5,400.0	5,312.2	3,863.4	3,268.8	24.6	35.4	-144.27	-1,597.4	930.1	3,290.4	3,248.4	78.326		
5,500.0	5,410.6	3,931.6	3,321.5	25.1	36.2	-145.45	-1,635.0	951.4	3,363.5	3,320.7	78.608		
5,600.0	5,509.6	4,001.7	3,375.7	25.7	37.1	-146.48	-1,673.7	973.3	3,434.6	3,391.0	78.831		
5,700.0	5,609.0	4,073.8	3,431.5	26.2	37.9	-147.38	-1,713.5	995.8	3,503.7	3,459.3	79.008		
5,800.0	5,708.7	4,147.7	3,488.6	26.6	38.8	-148.16	-1,754.3	1,018.9	3,570.6	3,525.5	79.153		
5,900.0	5,808.6	4,223.2	3,547.0	27.0	39.7	-148.84	-1,795.9	1,042.5	3,635.3	3,589.4	79.288		
6,000.0	5,908.6	4,300.3	3,606.6	27.1	40.7	136.41	-1,838.5	1,066.6	3,697.9	3,651.5	79.675		
6,100.0	6,008.6	4,377.6	3,666.4	27.1	41.6	136.64	-1,881.1	1,090.8	3,760.2	3,713.2	80.102		
6,200.0	6,108.6	4,454.9	3,726.2	27.2	42.5	136.86	-1,923.8	1,114.9	3,822.5	3,775.0	80.511		
6,300.0	6,208.6	4,532.3	3,786.0	27.2	43.5	137.08	-1,966.5	1,139.1	3,884.8	3,836.8	80.906		
6,400.0	6,308.6	4,609.6	3,845.7	27.2	44.4	137.29	-2,009.1	1,163.3	3,947.2	3,898.6	81.288		
6,500.0	6,408.6	4,686.9	3,905.5	27.3	45.3	137.50	-2,051.8	1,187.4	4,009.6	3,960.5	81.657		
6,600.0	6,508.6	4,764.0	3,965.3	27.3	46.2	137.71	-2,094.5	1,211.5	4,071.9	4,022.3	82.026		
6,700.0	6,608.6	4,841.1	4,025.1	27.3	47.1	137.92	-2,137.2	1,235.6	4,134.2	4,084.6	82.395		
6,800.0	6,708.6	4,918.2	4,084.9	27.3	48.0	138.13	-2,179.9	1,259.7	4,196.5	4,146.9	82.764		
6,900.0	6,808.6	5,000.0	4,144.7	27.3	48.9	138.34	-2,222.6	1,283.8	4,258.8	4,209.2	83.133		
7,000.0	6,908.6	5,081.7	4,204.5	27.3	49.8	138.55	-2,265.3	1,307.9	4,321.1	4,271.5	83.502		
7,100.0	7,008.6	5,163.4	4,264.3	27.3	50.7	138.76	-2,308.0	1,332.0	4,383.4	4,333.8	83.871		
7,200.0	7,108.6	5,245.1	4,324.1	27.3	51.6	138.97	-2,350.7	1,356.1	4,445.7	4,396.1	84.240		
7,300.0	7,208.6	5,326.8	4,383.9	27.3	52.5	139.18	-2,393.4	1,380.2	4,508.0	4,458.4	84.609		
7,400.0	7,308.6	5,408.5	4,443.7	27.3	53.4	139.39	-2,436.1	1,404.3	4,570.3	4,520.7	84.978		
7,500.0	7,408.6	5,490.2	4,503.5	27.3	54.3	139.60	-2,478.8	1,428.4	4,632.6	4,583.0	85.347		
7,600.0	7,508.6	5,571.9	4,563.3	27.3	55.2	139.81	-2,521.5	1,452.5	4,694.9	4,645.3	85.716		
7,700.0	7,608.6	5,653.6	4,623.1	27.3	56.1	140.02	-2,564.2	1,476.6	4,757.2	4,707.6	86.085		
7,800.0	7,708.6	5,735.3	4,682.9	27.3	57.0	140.23	-2,606.9	1,500.7	4,819.5	4,769.9	86.454		
7,900.0	7,808.6	5,817.0	4,742.7	27.3	57.9	140.44	-2,649.6	1,524.8	4,881.8	4,832.2	86.823		
8,000.0	7,908.6	5,898.7	4,802.5	27.3	58.8	140.65	-2,692.3	1,548.9	4,944.1	4,894.5	87.192		
8,100.0	8,008.6	5,980.4	4,862.3	27.3	59.7	140.86	-2,735.0	1,573.0	5,006.4	4,956.8	87.561		
8,200.0	8,108.6	6,062.1	4,922.1	27.3	60.6	141.07	-2,777.7	1,597.1	5,068.7	5,019.1	87.930		
8,300.0	8,208.6	6,143.8	4,981.9	27.3	61.5	141.28	-2,820.4	1,621.2	5,131.0	5,081.4	88.299		
8,400.0	8,308.6	6,225.5	5,041.7	27.3	62.4	141.49	-2,863.1	1,645.3	5,193.3	5,143.7	88.668		
8,500.0	8,408.6	6,307.2	5,101.5	27.3	63.3	141.70	-2,905.8	1,669.4	5,255.6	5,206.0	89.037		
8,600.0	8,508.6	6,388.9	5,161.3	27.3	64.2	141.91	-2,948.5	1,693.5	5,317.9	5,268.3	89.406		
8,700.0	8,608.6	6,470.6	5,221.1	27.3	65.1	142.12	-2,991.2	1,717.6	5,380.2	5,330.6	89.775		
8,757.4	8,666.0	6,528.0	5,266.0	28.1	63.1	140.50	-2,876.6	1,654.6	4,061.6	3,996.6	62.480		

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Currier BCU 0993-16-06W - Slot 16-06W
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Reference Site:</b>	Currier 0993-16-07 Pad	<b>MD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Currier BCU 0993-16-06W	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	KLXDirectional-AD
<b>Reference Design:</b>	Design #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Currier 0993-16-07 Pad - Currier BCU 0993-16-15W - OH - Design #2												Offset Well Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard													
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 +N/-S (usft)	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	88.77	0.3	14.2	14.2				
100.0	100.0	100.0	100.0	0.8	0.8	88.77	0.3	14.2	14.2	12.6	8.937		
113.0	113.0	113.0	113.0	0.9	0.9	88.77	0.3	14.2	14.2	12.4	8.138	CC	
200.0	200.0	200.0	200.0	1.4	1.3	88.86	0.3	14.2	14.2	11.4	5.183		
300.0	300.0	299.7	299.7	1.9	2.5	98.18	-2.2	15.1	15.2	11.2	3.828	ES	
400.0	400.0	399.0	398.7	2.2	4.0	116.41	-8.6	17.4	19.5	13.9	3.506	SF	
500.0	500.0	497.5	496.6	2.4	5.1	-153.75	-19.1	21.2	29.0	21.9	4.092		
600.0	599.9	595.5	593.4	3.1	5.5	-144.98	-33.2	25.1	44.9	36.7	5.465		
700.0	699.7	692.1	688.4	4.1	6.1	-139.34	-50.8	27.1	65.9	56.3	6.914		
800.0	799.2	787.0	781.0	4.9	6.7	-135.52	-71.5	27.1	91.7	81.0	8.597		
900.0	898.3	879.8	870.8	5.6	7.3	-132.76	-95.0	25.4	122.1	110.4	10.452		
1,000.0	996.8	970.3	957.4	6.3	7.9	-130.65	-120.9	22.0	157.0	144.4	12.441		
1,100.0	1,094.9	1,058.5	1,040.8	6.5	8.5	-129.20	-149.1	17.1	195.6	182.3	14.715		
1,200.0	1,193.0	1,144.7	1,121.3	6.8	9.0	-127.65	-179.3	10.7	236.5	222.5	16.905		
1,300.0	1,291.1	1,228.7	1,198.6	7.1	9.5	-126.01	-211.3	3.1	279.5	264.8	19.032		
1,400.0	1,389.1	1,310.5	1,272.7	7.4	10.0	-124.36	-244.8	-5.7	324.9	309.5	21.128		
1,500.0	1,487.2	1,389.8	1,343.4	7.8	10.5	-122.76	-279.5	-15.4	372.5	356.5	23.201		
1,600.0	1,585.3	1,466.7	1,410.7	8.1	10.9	-121.23	-315.1	-26.1	422.4	405.7	25.260		
1,700.0	1,683.4	1,541.1	1,474.6	8.5	11.4	-119.79	-351.4	-37.5	474.5	457.2	27.315		
1,800.0	1,781.4	1,612.9	1,535.1	8.9	11.8	-118.43	-388.1	-49.5	528.9	510.9	29.376		
1,900.0	1,879.5	1,682.1	1,592.3	9.3	12.2	-117.16	-425.0	-62.1	585.3	566.7	31.443		
2,000.0	1,977.6	1,751.3	1,648.3	9.7	12.4	-115.93	-463.4	-75.5	643.7	624.6	33.655		
2,100.0	2,075.7	1,831.0	1,712.4	10.1	12.7	-114.69	-508.1	-91.3	703.0	683.3	35.586		
2,200.0	2,173.7	1,910.7	1,776.4	10.5	13.1	-113.63	-552.7	-107.0	762.5	742.1	37.370		
2,300.0	2,271.8	1,990.3	1,840.5	10.9	13.5	-112.73	-597.4	-122.8	822.1	801.0	39.016		
2,400.0	2,369.9	2,070.0	1,904.5	11.3	13.9	-111.95	-642.1	-138.5	881.8	860.1	40.541		
2,500.0	2,468.0	2,149.6	1,968.6	11.7	14.4	-111.26	-686.7	-154.3	941.6	919.2	41.955		
2,600.0	2,566.0	2,229.3	2,032.6	12.1	15.1	-110.66	-731.4	-170.0	1,001.5	978.4	43.267		
2,700.0	2,664.1	2,308.9	2,096.7	12.5	15.7	-110.12	-776.0	-185.8	1,061.5	1,037.6	44.487		
2,800.0	2,762.2	2,388.6	2,160.7	13.0	16.5	-109.64	-820.7	-201.5	1,121.5	1,096.9	45.619		
2,900.0	2,860.3	2,468.2	2,224.8	13.4	17.2	-109.21	-865.4	-217.3	1,181.6	1,156.2	46.672		
3,000.0	2,958.3	2,547.9	2,288.8	13.8	18.0	-108.82	-910.0	-233.0	1,241.6	1,215.6	47.654		
3,100.0	3,056.4	2,627.6	2,352.9	14.3	18.7	-108.47	-954.7	-248.8	1,301.8	1,275.0	48.570		
3,200.0	3,154.5	2,707.2	2,416.9	14.7	19.5	-108.14	-999.4	-264.6	1,361.9	1,334.4	49.426		
3,300.0	3,252.6	2,786.9	2,480.9	15.1	20.3	-107.85	-1,044.0	-280.3	1,422.1	1,393.8	50.225		
3,400.0	3,350.6	2,866.5	2,545.0	15.6	21.1	-107.58	-1,088.7	-296.1	1,482.3	1,453.2	50.972		
3,500.0	3,448.7	2,946.2	2,609.0	16.0	21.9	-107.33	-1,133.3	-311.8	1,542.5	1,512.7	51.674		
3,600.0	3,546.8	3,025.8	2,673.1	16.5	22.7	-107.09	-1,178.0	-327.6	1,602.8	1,572.2	52.333		
3,700.0	3,644.9	3,105.5	2,737.1	16.9	23.5	-106.88	-1,222.7	-343.3	1,663.1	1,631.6	52.952		
3,800.0	3,743.0	3,185.1	2,801.2	17.4	24.3	-106.68	-1,267.3	-359.1	1,723.3	1,691.1	53.533		
3,900.0	3,841.0	3,264.8	2,865.2	17.8	25.1	-106.49	-1,312.0	-374.8	1,783.6	1,750.6	54.081		
4,000.0	3,939.1	3,344.4	2,929.3	18.3	25.9	-106.32	-1,356.6	-390.6	1,843.9	1,810.1	54.597		
4,100.0	4,037.2	3,424.1	2,993.3	18.7	26.7	-106.15	-1,401.3	-406.3	1,904.2	1,869.6	55.085		
4,200.0	4,135.3	3,503.8	3,057.4	19.2	27.5	-106.00	-1,446.0	-422.1	1,964.5	1,929.2	55.546		
4,300.0	4,233.3	3,583.4	3,121.4	19.6	28.3	-105.86	-1,490.6	-437.9	2,024.9	1,988.7	55.982		
4,400.0	4,331.4	3,663.1	3,185.5	20.1	29.1	-105.72	-1,535.3	-453.6	2,085.2	2,048.2	56.394		
4,500.0	4,429.5	3,742.7	3,249.5	20.5	29.9	-105.59	-1,580.0	-469.4	2,145.5	2,107.7	56.785		
4,600.0	4,527.6	3,822.4	3,313.5	21.0	30.7	-105.47	-1,624.6	-485.1	2,205.9	2,167.3	57.156		
4,700.0	4,625.6	3,902.0	3,377.6	21.4	31.5	-105.36	-1,669.3	-500.9	2,266.2	2,226.8	57.508		
4,800.0	4,723.7	3,981.7	3,441.6	21.9	32.3	-105.25	-1,713.9	-516.6	2,326.6	2,286.4	57.842		
4,900.0	4,821.8	4,061.3	3,505.7	22.3	33.2	-105.14	-1,758.6	-532.4	2,386.9	2,345.9	58.160		

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Currier BCU 0993-16-06W - Slot 16-06W
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Reference Site:</b>	Currier 0993-16-07 Pad	<b>MD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Currier BCU 0993-16-06W	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	KLXDirectional-AD
<b>Reference Design:</b>	Design #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Currier 0993-16-07 Pad - Currier BCU 0993-16-15W - OH - Design #2												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		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance		Separation Factor	Warning	
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)				Between Centres (usft)	Between Ellipses (usft)			
5,000.0	4,919.9	4,141.0	3,569.7	22.8	34.0	-105.04	-1,803.3	-548.1	2,447.3	2,405.4	58.463		
5,100.0	5,017.9	4,220.6	3,633.8	23.3	34.8	-104.95	-1,847.9	-563.9	2,507.7	2,465.0	58.751		
5,200.0	5,116.0	4,300.3	3,697.8	23.7	35.6	-104.86	-1,892.6	-579.7	2,568.1	2,524.5	59.026		
5,300.0	5,214.1	4,380.0	3,761.9	24.2	36.4	-104.78	-1,937.3	-595.4	2,628.4	2,584.1	59.287		
5,400.0	5,312.2	4,459.6	3,825.9	24.6	37.2	-104.76	-1,981.9	-611.2	2,688.8	2,643.7	59.541		
5,500.0	5,410.6	4,539.5	3,890.1	25.1	38.0	-106.08	-2,026.7	-627.0	2,748.8	2,702.8	59.751		
5,600.0	5,509.6	4,619.6	3,954.6	25.7	38.9	-107.29	-2,071.6	-642.8	2,808.0	2,761.3	60.045		
5,700.0	5,609.0	4,700.0	4,019.2	26.2	39.7	-108.38	-2,116.7	-658.7	2,866.5	2,819.0	60.373		
5,800.0	5,708.7	4,780.5	4,083.9	26.6	40.5	-109.37	-2,161.8	-674.6	2,924.0	2,875.9	60.736		
5,900.0	5,808.6	4,861.0	4,148.7	27.0	41.4	-110.27	-2,207.0	-690.6	2,980.8	2,932.0	61.135		
6,000.0	5,908.6	4,941.4	4,213.3	27.1	42.2	174.94	-2,252.1	-706.5	3,036.7	2,987.4	61.614		
6,100.0	6,008.6	5,021.8	4,278.0	27.1	43.0	175.38	-2,297.1	-722.4	3,092.6	3,042.8	62.090		
6,200.0	6,108.6	7,003.3	6,108.6	27.2	53.8	179.96	-2,875.7	-926.5	3,133.3	3,074.2	53.049		
6,300.0	6,208.6	7,103.3	6,208.6	27.2	53.8	179.96	-2,875.7	-926.5	3,133.3	3,074.1	52.994		
6,400.0	6,308.6	7,203.3	6,308.6	27.2	53.8	179.96	-2,875.7	-926.5	3,133.3	3,074.1	52.939		
6,500.0	6,408.6	7,303.3	6,408.6	27.3	53.8	179.96	-2,875.7	-926.5	3,133.3	3,074.0	52.884		
6,600.0	6,508.6	7,403.3	6,508.6	27.3	53.8	179.96	-2,875.7	-926.5	3,133.3	3,073.9	52.828		
6,700.0	6,608.6	7,503.3	6,608.6	27.3	53.8	179.96	-2,875.7	-926.5	3,133.3	3,073.9	52.772		
6,800.0	6,708.6	7,603.3	6,708.6	27.4	53.8	179.96	-2,875.7	-926.5	3,133.3	3,073.8	52.716		
6,900.0	6,808.6	7,703.3	6,808.6	27.4	53.8	179.96	-2,875.7	-926.5	3,133.3	3,073.8	52.660		
7,000.0	6,908.6	7,803.3	6,908.6	27.4	53.8	179.96	-2,875.7	-926.5	3,133.3	3,073.7	52.604		
7,100.0	7,008.6	7,903.3	7,008.6	27.5	53.8	179.96	-2,875.7	-926.5	3,133.3	3,073.6	52.547		
7,200.0	7,108.6	8,003.3	7,108.6	27.5	53.8	179.96	-2,875.7	-926.5	3,133.3	3,073.6	52.490		
7,300.0	7,208.6	8,103.3	7,208.6	27.5	53.8	179.96	-2,875.7	-926.5	3,133.3	3,073.5	52.433		
7,400.0	7,308.6	8,203.3	7,308.6	27.6	53.8	179.96	-2,875.7	-926.5	3,133.3	3,073.4	52.376		
7,500.0	7,408.6	8,303.3	7,408.6	27.6	53.8	179.96	-2,875.7	-926.5	3,133.3	3,073.4	52.319		
7,600.0	7,508.6	8,403.3	7,508.6	27.6	53.8	179.96	-2,875.7	-926.5	3,133.3	3,073.3	52.261		
7,700.0	7,608.6	8,503.3	7,608.6	27.7	53.8	179.96	-2,875.7	-926.5	3,133.3	3,073.2	52.203		
7,800.0	7,708.6	8,603.3	7,708.6	27.7	53.8	179.96	-2,875.7	-926.5	3,133.3	3,073.2	52.145		
7,813.5	7,722.2	8,616.8	7,722.2	27.7	53.8	179.96	-2,875.7	-926.5	3,133.3	3,073.2	52.138		
7,900.0	7,808.6	8,694.7	7,800.0	27.7	53.8	179.96	-2,875.7	-926.5	3,133.3	3,073.1	52.055		
8,000.0	7,908.6	8,694.7	7,800.0	27.8	53.8	179.96	-2,875.7	-926.5	3,135.1	3,074.5	51.665		
8,100.0	8,008.6	8,694.7	7,800.0	27.8	53.8	179.96	-2,875.7	-926.5	3,140.2	3,079.1	51.370		
8,200.0	8,108.6	8,694.7	7,800.0	27.9	53.8	179.96	-2,875.7	-926.5	3,148.4	3,086.9	51.167		
8,300.0	8,208.6	8,694.7	7,800.0	27.9	53.8	179.96	-2,875.7	-926.5	3,159.8	3,097.9	51.054		
8,400.0	8,308.6	8,694.7	7,800.0	27.9	53.8	179.96	-2,875.7	-926.5	3,174.3	3,112.1	51.027		
8,500.0	8,408.6	8,694.7	7,800.0	28.0	53.8	179.96	-2,875.7	-926.5	3,191.8	3,129.3	51.084		
8,600.0	8,508.6	8,694.7	7,800.0	28.0	53.8	179.96	-2,875.7	-926.5	3,212.4	3,149.7	51.221		
8,700.0	8,608.6	8,694.7	7,800.0	28.0	53.8	179.96	-2,875.7	-926.5	3,235.9	3,173.0	51.436		
8,757.4	8,666.0	8,694.7	7,800.0	28.1	53.8	179.96	-2,875.7	-926.5	3,250.7	3,187.7	51.599		

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Currier BCU 0993-16-06W - Slot 16-06W
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Reference Site:</b>	Currier 0993-16-07 Pad	<b>MD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Currier BCU 0993-16-06W	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	KLXDirectional-AD
<b>Reference Design:</b>	Design #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Currier 0993-16-07 Pad - Currier BCU Fed 0993-16-12W - OH - Design #3												Offset Well Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard													
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore +N/-S (usft)	Centre +E/-W (usft)	Distance		Separation Factor	Warning	
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)				Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	0.0	0.0	0.0	0.0	-154.67	-28.6	-13.5	31.6				
100.0	100.0	100.0	100.0	0.8	0.8	-154.67	-28.6	-13.5	31.6	30.0	19.967		
113.0	113.0	113.0	113.0	0.9	0.9	-154.67	-28.6	-13.5	31.6	29.9	18.184	CC	
200.0	200.0	199.9	199.9	1.4	1.3	-154.66	-28.6	-13.5	31.6	28.9	11.579	ES	
300.0	300.0	298.9	298.9	1.9	2.3	-152.92	-29.8	-15.2	33.5	29.3	8.116		
400.0	400.0	397.6	397.5	2.2	3.5	-149.10	-32.9	-19.7	38.4	32.9	6.929	SF	
500.0	500.0	495.9	495.3	2.4	3.8	-70.79	-38.1	-26.7	46.7	40.7	7.749		
600.0	599.9	593.6	592.3	3.1	4.3	-71.29	-46.3	-35.0	57.4	50.5	8.333		
700.0	699.7	690.5	688.1	4.1	5.0	-74.68	-57.4	-44.5	70.4	62.6	8.958		
800.0	799.2	786.4	782.4	4.9	5.7	-79.28	-71.4	-55.1	86.3	77.6	9.936		
900.0	898.3	880.9	874.7	5.6	6.4	-84.08	-88.0	-66.8	105.5	96.1	11.216		
1,000.0	996.8	974.0	964.9	6.3	7.0	-88.55	-107.1	-79.4	128.4	118.4	12.723		
1,100.0	1,094.9	1,065.3	1,052.7	6.5	7.5	-92.53	-128.5	-92.8	155.2	144.5	14.461		
1,200.0	1,193.0	1,155.1	1,138.2	6.8	8.1	-95.22	-152.0	-107.0	185.4	174.0	16.178		
1,300.0	1,291.1	1,243.2	1,221.2	7.1	8.6	-96.94	-177.5	-121.9	218.8	206.6	17.910		
1,400.0	1,389.1	1,331.9	1,303.8	7.4	9.1	-98.06	-205.4	-137.8	254.9	241.9	19.664		
1,500.0	1,487.2	1,424.8	1,390.2	7.8	9.5	-98.90	-235.2	-154.6	291.6	278.0	21.328		
1,600.0	1,585.3	1,517.7	1,476.6	8.1	9.8	-99.55	-264.9	-171.5	328.4	314.1	22.882		
1,700.0	1,683.4	1,610.7	1,563.0	8.5	10.2	-100.07	-294.7	-188.4	365.3	350.2	24.259		
1,800.0	1,781.4	1,703.6	1,649.4	8.9	10.5	-100.50	-324.5	-205.2	402.1	386.3	25.483		
1,900.0	1,879.5	1,796.5	1,735.8	9.3	10.9	-100.86	-354.3	-222.1	439.0	422.4	26.574		
2,000.0	1,977.6	1,889.4	1,822.2	9.7	11.3	-101.16	-384.1	-239.0	475.8	458.6	27.548		
2,100.0	2,075.7	1,982.4	1,908.6	10.1	11.7	-101.41	-413.8	-255.8	512.7	494.7	28.421		
2,200.0	2,173.7	2,075.3	1,995.0	10.5	12.1	-101.64	-443.6	-272.7	549.6	530.8	29.207		
2,300.0	2,271.8	2,168.2	2,081.4	10.9	12.5	-101.83	-473.4	-289.6	586.5	566.9	29.916		
2,400.0	2,369.9	2,261.1	2,167.8	11.3	12.9	-102.00	-503.2	-306.5	623.4	603.0	30.559		
2,500.0	2,468.0	2,354.1	2,254.2	11.7	13.3	-102.15	-532.9	-323.3	660.3	639.1	31.143		
2,600.0	2,566.0	2,447.0	2,340.5	12.1	13.8	-102.29	-562.7	-340.2	697.2	675.2	31.675		
2,700.0	2,664.1	2,539.9	2,426.9	12.5	14.2	-102.41	-592.5	-357.1	734.2	711.3	32.161		
2,800.0	2,762.2	2,632.9	2,513.3	13.0	14.7	-102.52	-622.3	-373.9	771.1	747.4	32.606		
2,900.0	2,860.3	2,725.8	2,599.7	13.4	15.1	-102.62	-652.0	-390.8	808.0	783.5	33.016		
3,000.0	2,958.3	2,818.7	2,686.1	13.8	15.6	-102.72	-681.8	-407.7	844.9	819.6	33.393		
3,100.0	3,056.4	2,911.6	2,772.5	14.3	16.1	-102.80	-711.6	-424.5	881.8	855.7	33.742		
3,200.0	3,154.5	3,004.6	2,858.9	14.7	16.5	-102.88	-741.4	-441.4	918.8	891.8	34.064		
3,300.0	3,252.6	3,097.5	2,945.3	15.1	17.0	-102.95	-771.1	-458.3	955.7	927.9	34.364		
3,400.0	3,350.6	3,190.4	3,031.7	15.6	17.6	-103.01	-800.9	-475.1	992.6	964.0	34.642		
3,500.0	3,448.7	3,283.3	3,118.1	16.0	18.1	-103.08	-830.7	-492.0	1,029.5	1,000.0	34.901		
3,600.0	3,546.8	3,376.3	3,204.5	16.5	18.6	-103.13	-860.5	-508.9	1,066.5	1,036.1	35.143		
3,700.0	3,644.9	3,469.2	3,290.9	16.9	19.2	-103.19	-890.3	-525.8	1,103.4	1,072.2	35.370		
3,800.0	3,743.0	3,562.1	3,377.3	17.4	19.8	-103.24	-920.0	-542.6	1,140.3	1,108.3	35.582		
3,900.0	3,841.0	3,655.0	3,463.7	17.8	20.3	-103.28	-949.8	-559.5	1,177.3	1,144.4	35.781		
4,000.0	3,939.1	3,748.0	3,550.1	18.3	20.9	-103.33	-979.6	-576.4	1,214.2	1,180.4	35.968		
4,100.0	4,037.2	3,840.9	3,636.5	18.7	21.5	-103.37	-1,009.4	-593.2	1,251.1	1,216.5	36.144		
4,200.0	4,135.3	3,933.8	3,722.9	19.2	22.1	-103.41	-1,039.1	-610.1	1,288.1	1,252.6	36.310		
4,300.0	4,233.3	4,026.7	3,809.3	19.6	22.7	-103.44	-1,068.9	-627.0	1,325.0	1,288.7	36.467		
4,400.0	4,331.4	4,119.7	3,895.7	20.1	23.3	-103.48	-1,098.7	-643.8	1,361.9	1,324.7	36.616		
4,500.0	4,429.5	4,212.6	3,982.1	20.5	23.8	-103.51	-1,128.5	-660.7	1,398.9	1,360.8	36.756		
4,600.0	4,527.6	4,305.5	4,068.5	21.0	24.4	-103.54	-1,158.2	-677.6	1,435.8	1,396.9	36.889		
4,700.0	4,625.6	4,398.5	4,154.8	21.4	25.0	-103.57	-1,188.0	-694.4	1,472.7	1,432.9	37.015		
4,800.0	4,723.7	4,491.4	4,241.2	21.9	25.6	-103.60	-1,217.8	-711.3	1,509.7	1,469.0	37.135		
4,900.0	4,821.8	4,584.3	4,327.6	22.3	26.2	-103.63	-1,247.6	-728.2	1,546.6	1,505.1	37.249		

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Currier BCU 0993-16-06W - Slot 16-06W
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Reference Site:</b>	Currier 0993-16-07 Pad	<b>MD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Currier BCU 0993-16-06W	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	KLXDirectional-AD
<b>Reference Design:</b>	Design #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Currier 0993-16-07 Pad - Currier BCU Fed 0993-16-12W - OH - Design #3												Offset Well Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard													
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance		Separation Factor	Warning	
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)				Between Centres (usft)	Between Ellipses (usft)			
5,000.0	4,919.9	4,677.2	4,414.0	22.8	26.8	-103.65	-1,277.3	-745.0	1,583.5	1,541.1	37.358		
5,100.0	5,017.9	4,770.2	4,500.4	23.3	27.4	-103.68	-1,307.1	-761.9	1,620.5	1,577.2	37.461		
5,200.0	5,116.0	4,863.1	4,586.8	23.7	28.0	-103.70	-1,336.9	-778.8	1,657.4	1,613.3	37.559		
5,300.0	5,214.1	4,956.0	4,673.2	24.2	28.6	-103.72	-1,366.7	-795.7	1,694.3	1,649.3	37.653		
5,400.0	5,312.2	5,048.9	4,759.6	24.6	29.2	-103.78	-1,396.5	-812.5	1,731.3	1,685.4	37.746		
5,500.0	5,410.6	5,159.6	4,862.6	25.1	29.9	-104.48	-1,431.8	-832.5	1,767.7	1,720.8	37.676		
5,600.0	5,509.6	5,365.6	5,057.5	25.7	31.1	-104.95	-1,489.8	-865.4	1,799.6	1,750.8	36.944		
5,700.0	5,609.0	5,580.4	5,265.1	26.2	32.0	-105.29	-1,537.1	-892.2	1,824.4	1,774.2	36.284		
5,800.0	5,708.7	5,802.0	5,483.1	26.6	32.8	-105.50	-1,571.7	-911.8	1,842.0	1,790.4	35.750		
5,900.0	5,808.6	6,028.3	5,708.2	27.0	33.2	-105.59	-1,591.7	-923.1	1,851.8	1,799.5	35.371		
6,000.0	5,908.6	6,228.9	5,908.6	27.1	33.4	179.91	-1,596.6	-925.9	1,854.1	1,801.6	35.316		
6,100.0	6,008.6	6,328.9	6,008.6	27.1	33.4	179.91	-1,596.6	-925.9	1,854.1	1,801.5	35.264		
6,200.0	6,108.6	6,428.9	6,108.6	27.2	33.4	179.91	-1,596.6	-925.9	1,854.1	1,801.5	35.221		
6,300.0	6,208.6	6,528.9	6,208.6	27.2	33.4	179.91	-1,596.6	-925.9	1,854.1	1,801.4	35.177		
6,400.0	6,308.6	6,628.9	6,308.6	27.2	33.4	179.91	-1,596.6	-925.9	1,854.1	1,801.3	35.134		
6,500.0	6,408.6	6,728.9	6,408.6	27.3	33.5	179.91	-1,596.6	-925.9	1,854.1	1,801.3	35.090		
6,600.0	6,508.6	6,828.9	6,508.6	27.3	33.5	179.91	-1,596.6	-925.9	1,854.1	1,801.2	35.047		
6,700.0	6,608.6	6,928.9	6,608.6	27.3	33.5	179.91	-1,596.6	-925.9	1,854.1	1,801.1	35.003		
6,800.0	6,708.6	7,028.9	6,708.6	27.4	33.5	179.91	-1,596.6	-925.9	1,854.1	1,801.1	34.959		
6,900.0	6,808.6	7,128.9	6,808.6	27.4	33.5	179.91	-1,596.6	-925.9	1,854.1	1,801.0	34.915		
7,000.0	6,908.6	7,228.9	6,908.6	27.4	33.5	179.91	-1,596.6	-925.9	1,854.1	1,800.9	34.870		
7,100.0	7,008.6	7,328.9	7,008.6	27.5	33.5	179.91	-1,596.6	-925.9	1,854.1	1,800.9	34.826		
7,200.0	7,108.6	7,428.9	7,108.6	27.5	33.5	179.91	-1,596.6	-925.9	1,854.1	1,800.8	34.781		
7,300.0	7,208.6	7,528.9	7,208.6	27.5	33.5	179.91	-1,596.6	-925.9	1,854.1	1,800.7	34.736		
7,400.0	7,308.6	7,628.9	7,308.6	27.6	33.5	179.91	-1,596.6	-925.9	1,854.1	1,800.7	34.692		
7,500.0	7,408.6	7,728.9	7,408.6	27.6	33.5	179.91	-1,596.6	-925.9	1,854.1	1,800.6	34.646		
7,600.0	7,508.6	7,828.9	7,508.6	27.6	33.5	179.91	-1,596.6	-925.9	1,854.1	1,800.5	34.601		
7,700.0	7,608.6	7,928.9	7,608.6	27.7	33.6	179.91	-1,596.6	-925.9	1,854.1	1,800.5	34.556		
7,800.0	7,708.6	8,028.9	7,708.6	27.7	33.6	179.91	-1,596.6	-925.9	1,854.1	1,800.4	34.511		
7,900.0	7,808.6	8,128.9	7,808.6	27.7	33.6	179.91	-1,596.6	-925.9	1,854.1	1,800.3	34.465		
8,000.0	7,908.6	8,228.9	7,908.6	27.8	33.6	179.91	-1,596.6	-925.9	1,854.1	1,800.2	34.419		
8,100.0	8,008.6	8,328.9	8,008.6	27.8	33.6	179.91	-1,596.6	-925.9	1,854.1	1,800.2	34.374		
8,200.0	8,108.6	8,428.9	8,108.6	27.9	33.6	179.91	-1,596.6	-925.9	1,854.1	1,800.1	34.328		
8,300.0	8,208.6	8,528.9	8,208.6	27.9	33.6	179.91	-1,596.6	-925.9	1,854.1	1,800.0	34.282		
8,400.0	8,308.6	8,628.9	8,308.6	27.9	33.6	179.91	-1,596.6	-925.9	1,854.1	1,799.9	34.236		
8,500.0	8,408.6	8,728.9	8,408.6	28.0	33.6	179.91	-1,596.6	-925.9	1,854.1	1,799.9	34.189		
8,600.0	8,508.6	8,828.9	8,508.6	28.0	33.7	179.91	-1,596.6	-925.9	1,854.1	1,799.8	34.143		
8,700.0	8,608.6	8,928.9	8,608.6	28.0	33.7	179.91	-1,596.6	-925.9	1,854.1	1,799.7	34.096		
8,757.4	8,666.0	8,986.2	8,666.0	28.1	33.7	179.91	-1,596.6	-925.9	1,854.1	1,799.7	34.075		

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

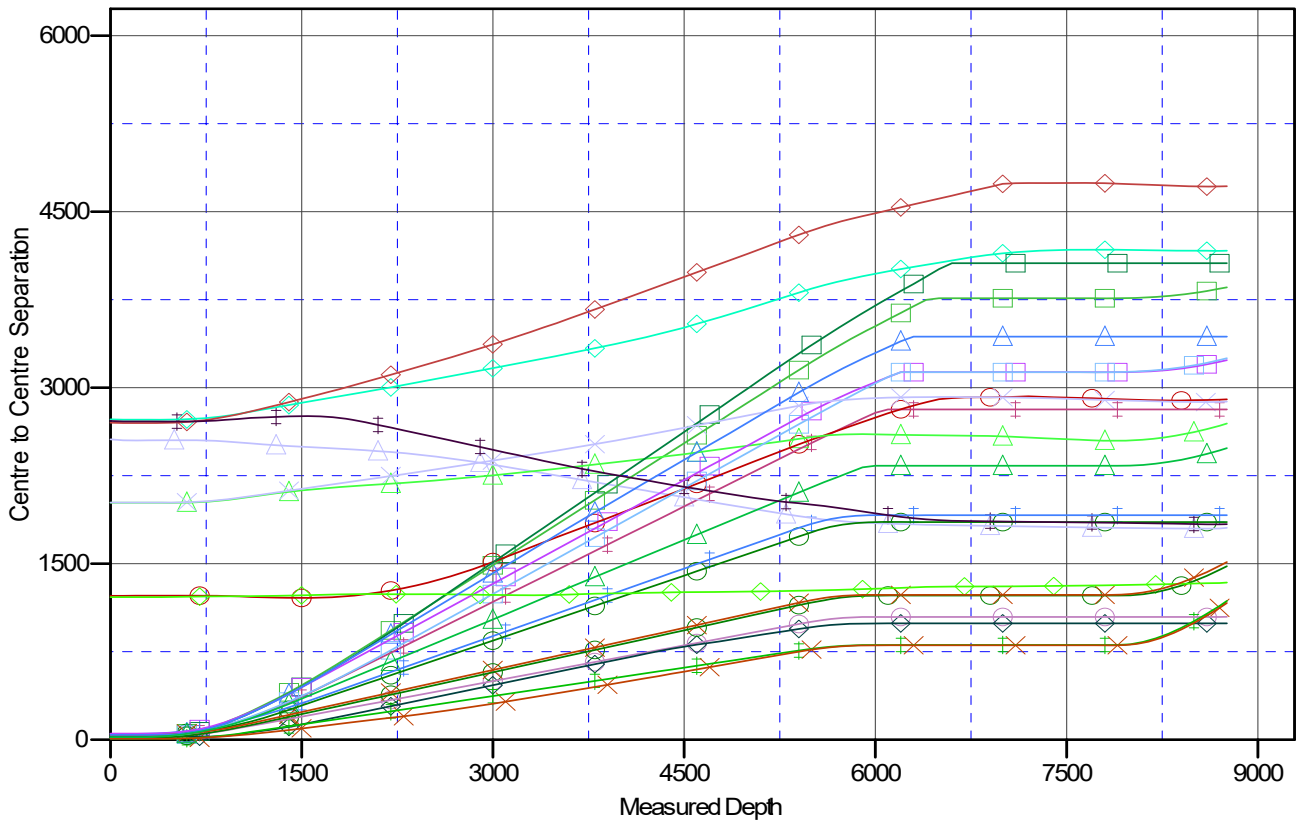


<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Currier BCU 0993-16-06W - Slot 16-06W
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Reference Site:</b>	Currier 0993-16-07 Pad	<b>MD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Currier BCU 0993-16-06W	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	KLXDirectional-AD
<b>Reference Design:</b>	Design #3	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to RKB=30' @ 7487.0usft (TBD)  
 Offset Depths are relative to Offset Datum  
 Central Meridian is -105.500000

Coordinates are relative to: Currier BCU 0993-16-06W - Slot 16-06W  
 Coordinate System is US State Plane 1983, Colorado Central Zone  
 Grid Convergence at Surface is: -1.43°

### Ladder Plot



### LEGEND

- er BCU 0993-16-14W, OH, Design #3 V0
- er Buzzard Creek 16-12, Wellbore #1, Wellbore #1 V0
- er BCU 0993-16-14E, OH, Design #2 V0
- er 0993-16-04M, OH, Design #4 V0
- er BCU Fed 0993-16-12W, OH, Design #3 V0
- er Buzzard Creek 15-12, Wellbore #1, Wellbore #1 V0
- er Currier 9-15, Wellbore #1, Wellbore #1 V0
- er Buzzard Creek 16-8, Wellbore #1, Wellbore #1 V0
- Currier 0993-16-01M, OH, Design #3 V0
- Currier BCU 0993-16-08M, OH, Design #3 V0
- Currier BCU 0993-16-15E, OH, Design #3 V0
- Currier BCU 0993-16-05M, OH, Design #2 V0
- Currier BCU 0993-16-11E, OH, Design #3 V0
- Currier BCU 0993-16-15W, OH, Design #2 V0
- Currier BCU 0993-16-09M, OH, Design #2 V0
- (Offset) Currier Family 16-3, Wellbore #1, Wellbore #1 V0
- (Offset) Buzzard Creek 16-1, Wellbore #1, Wellbore #1 V0
- (Offset) Buzzard Creek 21-1, Wellbore #1, Wellbore #1 V0
- Currier 0993-16-03M, OH, Design #2 V0
- Currier BCU 0993-16-13E, OH, Design #3 V0
- Currier BCU 0993-16-07M, OH, Design #2 V0
- Currier BCU 0993-16-13W, OH, Design #2 V0
- (Offset) Buzzard Creek 16-10, Wellbore #1, Wellbore #1 V0

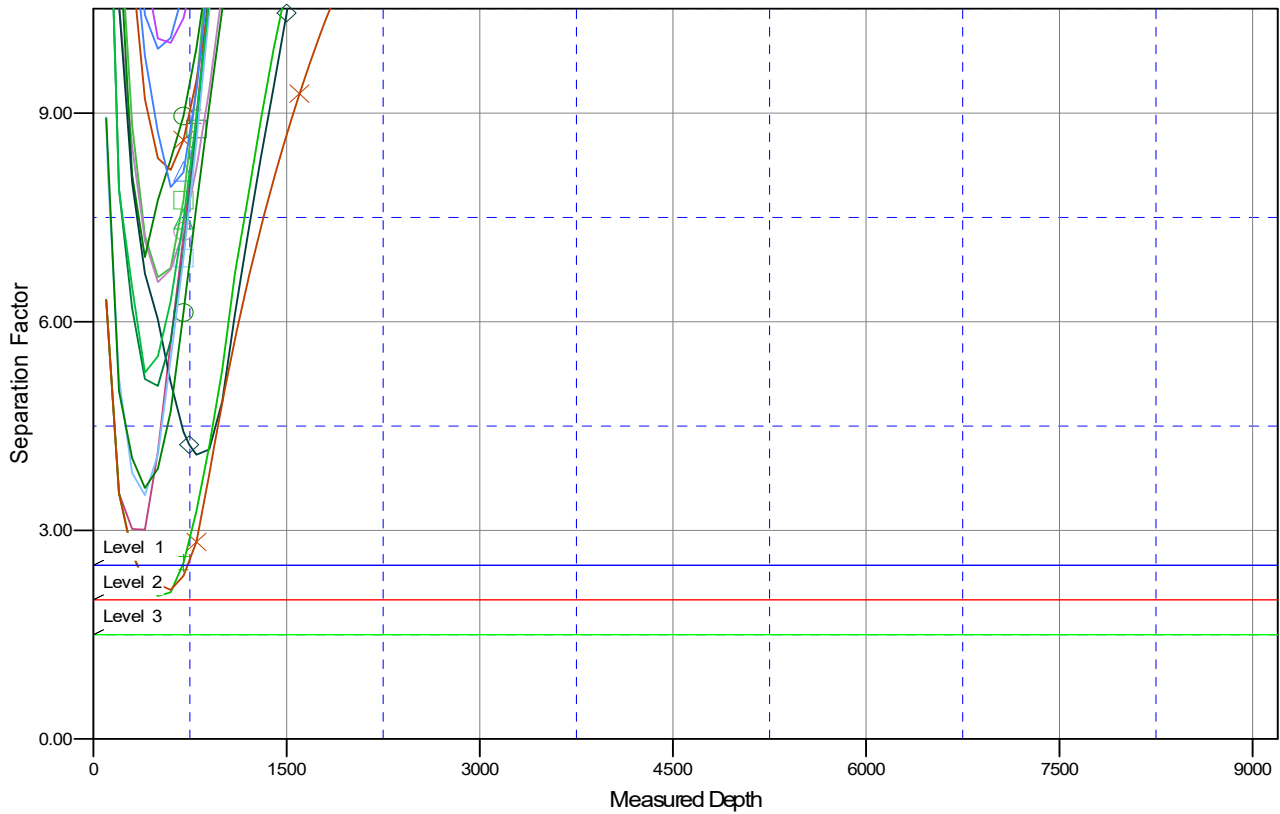


<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Currier BCU 0993-16-06W - Slot 16-06W
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Reference Site:</b>	Currier 0993-16-07 Pad	<b>MD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Currier BCU 0993-16-06W	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	KLXDirectional-AD
<b>Reference Design:</b>	Design #3	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to RKB=30' @ 7487.0usft (TBD)  
 Offset Depths are relative to Offset Datum  
 Central Meridian is -105.500000

Coordinates are relative to: Currier BCU 0993-16-06W - Slot 16-06W  
 Coordinate System is US State Plane 1983, Colorado Central Zone  
 Grid Convergence at Surface is: -1.43°

### Separation Factor Plot



#### LEGEND

er BCU 0993-16-14W, OH, Design #3 V0	—+— Currier 0993-16-01M, OH, Design #3 V0	—x— (Offset) Buzzard Creek 16-1, Wellbore #1, Well
er Buzzard Creek 16-12, Wellbore #1, Wellbore #1 V0	—o— Currier BCU 0993-16-08M, OH, Design #3 V0	—o— (Offset) Buzzard Creek 21-1, Wellbore #1, Well
er BCU 0993-16-14E, OH, Design #2 V0	—□— Currier BCU 0993-16-15E, OH, Design #3 V0	—x— Currier 0993-16-03M, OH, Design #2 V0
er 0993-16-04M, OH, Design #4 V0	—*— Currier BCU 0993-16-05M, OH, Design #2 V0	—+— Currier BCU 0993-16-13E, OH, Design #3 V0
er BCU Fed 0993-16-12W, OH, Design #3 V0	—◇— Currier BCU 0993-16-11E, OH, Design #3 V0	—x— Currier BCU 0993-16-07M, OH, Design #2 V0
er Buzzard Creek 15-12, Wellbore #1, Wellbore #1 V0	—□— Currier BCU 0993-16-15W, OH, Design #2 V0	—+— Currier BCU 0993-16-13W, OH, Design #2 V0
er Currier 9-15, Wellbore #1, Wellbore #1 V0	—o— Currier BCU 0993-16-09M, OH, Design #2 V0	—*— (Offset) Buzzard Creek 16-10, Wellbore #1, Wel
er Buzzard Creek 16-8, Wellbore #1, Wellbore #1 V0	—◇— (Offset) Currier Family 16-3, Wellbore #1, Wellbore #1 V0	