



# **Laramie Energy, LLC**

**Mesa County, CO**

**Currier 0993-16-07 Pad**

**Currier BCU Fed 0993-16-12W**

**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 Fed 0993-16-12W - Slot 16-12W
<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 Fed 0993-16-12W	<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	9,007.2	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 #	1,924.9	1,661.7	2,696.9	2,681.6	177.010	CC
(Offset) Buzzard Creek 15-12 - Wellbore #1 - Wellbore #	2,000.0	1,729.5	2,697.1	2,681.2	169.939	ES
(Offset) Buzzard Creek 15-12 - Wellbore #1 - Wellbore #	8,886.6	8,610.0	3,989.1	3,918.8	56.741	SF
(Offset) Buzzard Creek 16-1 - Wellbore #1 - Wellbore #1	200.0	192.7	2,045.7	2,043.0	762.775	CC, ES
(Offset) Buzzard Creek 16-1 - Wellbore #1 - Wellbore #1	8,800.0	8,559.7	4,062.7	3,999.0	63.761	SF
(Offset) Buzzard Creek 16-10 - Wellbore #1 - Wellbore #	8,800.0	8,669.0	1,367.1	1,292.3	18.290	SF
(Offset) Buzzard Creek 16-10 - Wellbore #1 - Wellbore #	8,891.5	8,743.0	1,366.4	1,291.7	18.295	CC, ES
(Offset) Buzzard Creek 16-12 - Wellbore #1 - Wellbore #	8,552.5	8,048.3	1,364.5	1,287.6	17.745	CC
(Offset) Buzzard Creek 16-12 - Wellbore #1 - Wellbore #	8,800.0	8,289.2	1,365.2	1,286.5	17.350	ES, SF
(Offset) Buzzard Creek 16-8 - Wellbore #1 - Wellbore #1	200.0	197.1	2,043.3	2,040.7	767.964	CC, ES
(Offset) Buzzard Creek 16-8 - Wellbore #1 - Wellbore #1	8,000.0	7,772.4	3,139.0	3,076.0	49.882	SF
(Offset) Buzzard Creek 21-1 - Wellbore #1 - Wellbore #1	139.3	0.0	2,688.6	2,687.6	2,691.595	CC
(Offset) Buzzard Creek 21-1 - Wellbore #1 - Wellbore #1	300.0	130.0	2,689.4	2,686.7	991.571	ES
(Offset) Buzzard Creek 21-1 - Wellbore #1 - Wellbore #1	9,000.0	8,660.0	3,325.8	3,256.3	47.848	SF
(Offset) Currier 9-15 - Wellbore #1 - Wellbore #1	0.0	0.0	1,256.6			
(Offset) Currier 9-15 - Wellbore #1 - Wellbore #1	300.0	298.5	1,258.4	1,254.0	283.602	ES
(Offset) Currier 9-15 - Wellbore #1 - Wellbore #1	9,007.2	8,867.5	4,645.8	4,582.7	73.617	SF
(Offset) Currier Family 16-3 - Wellbore #1 - Wellbore #1	0.0	0.0	1,244.7			
(Offset) Currier Family 16-3 - Wellbore #1 - Wellbore #1	200.0	198.8	1,244.9	1,242.4	498.827	ES
(Offset) Currier Family 16-3 - Wellbore #1 - Wellbore #1	9,000.0	8,650.0	3,191.6	3,121.2	45.339	SF
Currier 0993-16-01M - OH - Design #3	100.0	100.0	80.6	79.0	50.900	CC
Currier 0993-16-01M - OH - Design #3	200.0	200.0	80.7	77.9	29.510	ES
Currier 0993-16-01M - OH - Design #3	400.0	394.5	93.7	87.2	14.353	SF
Currier 0993-16-03M - OH - Design #2	100.0	100.0	70.7	69.1	44.647	CC
Currier 0993-16-03M - OH - Design #2	200.0	200.0	70.7	68.0	25.885	ES
Currier 0993-16-03M - OH - Design #2	500.0	495.0	92.1	85.4	13.787	SF
Currier 0993-16-04M - OH - Design #4	100.0	100.0	60.8	59.2	38.401	CC
Currier 0993-16-04M - OH - Design #4	200.0	200.0	60.8	58.1	22.264	ES
Currier 0993-16-04M - OH - Design #4	400.0	398.7	69.1	63.7	12.660	SF
Currier BCU 0993-16-05M - OH - Design #2	100.0	100.0	41.2	39.7	26.038	CC
Currier BCU 0993-16-05M - OH - Design #2	200.0	200.0	41.3	38.5	15.099	ES
Currier BCU 0993-16-05M - OH - Design #2	400.0	399.8	48.3	42.7	8.618	SF
Currier BCU 0993-16-06W - OH - Design #3	100.0	100.0	31.6	30.0	19.967	CC
Currier BCU 0993-16-06W - OH - Design #3	200.0	200.0	31.6	28.9	11.579	ES
Currier BCU 0993-16-06W - OH - Design #3	400.0	399.8	38.5	32.9	6.909	SF
Currier BCU 0993-16-07M - OH - Design #2	100.0	100.0	22.4	20.8	14.122	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 Fed 0993-16-12W - Slot 16-12W
<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 Fed 0993-16-12W	<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 0993-16-07M - OH - Design #2	200.0	200.0	22.4	19.7	8.191	ES
Currier BCU 0993-16-07M - OH - Design #2	400.0	399.8	28.8	23.3	5.235	SF
Currier BCU 0993-16-08M - OH - Design #3	292.5	292.5	9.7	6.0	2.581	CC
Currier BCU 0993-16-08M - OH - Design #3	300.0	300.0	9.7	5.9	2.532	ES
Currier BCU 0993-16-08M - OH - Design #3	400.0	399.8	11.3	6.4	2.307	Level 1, SF
Currier BCU 0993-16-09M - OH - Design #2	100.0	100.0	20.0	18.4	12.633	CC
Currier BCU 0993-16-09M - OH - Design #2	200.0	200.0	20.0	17.3	7.328	ES
Currier BCU 0993-16-09M - OH - Design #2	500.0	501.4	29.2	22.4	4.258	SF
Currier BCU 0993-16-11E - OH - Design #3	100.0	100.0	80.1	78.5	50.561	CC
Currier BCU 0993-16-11E - OH - Design #3	200.0	200.0	80.1	77.4	29.313	ES
Currier BCU 0993-16-11E - OH - Design #3	500.0	495.3	102.2	95.4	15.092	SF
Currier BCU 0993-16-13E - OH - Design #3	100.0	100.0	70.0	68.4	44.198	CC
Currier BCU 0993-16-13E - OH - Design #3	200.0	200.0	70.0	67.3	25.625	ES
Currier BCU 0993-16-13E - OH - Design #3	600.0	596.1	101.9	94.7	14.086	SF
Currier BCU 0993-16-13W - OH - Design #2	100.0	100.0	10.0	8.4	6.312	CC
Currier BCU 0993-16-13W - OH - Design #2	400.0	400.7	12.4	6.1	1.968	Level 2, ES, SF
Currier BCU 0993-16-14E - OH - Design #2	200.0	200.1	60.0	57.4	23.483	CC
Currier BCU 0993-16-14E - OH - Design #2	300.0	300.6	61.5	57.4	14.998	ES
Currier BCU 0993-16-14E - OH - Design #2	400.0	400.5	66.2	60.6	11.748	SF
Currier BCU 0993-16-14W - OH - Design #3	100.0	100.0	30.0	28.4	18.941	CC
Currier BCU 0993-16-14W - OH - Design #3	300.0	300.8	30.7	26.5	7.250	ES
Currier BCU 0993-16-14W - OH - Design #3	400.0	401.4	32.8	26.7	5.405	SF
Currier BCU 0993-16-15E - OH - Design #3	100.0	100.0	50.0	48.4	31.569	CC
Currier BCU 0993-16-15E - OH - Design #3	200.0	200.0	50.0	47.3	18.304	ES
Currier BCU 0993-16-15E - OH - Design #3	400.0	400.6	55.9	50.2	9.859	SF
Currier BCU 0993-16-15W - OH - Design #2	100.0	100.0	40.0	38.4	25.260	CC
Currier BCU 0993-16-15W - OH - Design #2	300.0	300.8	41.0	36.6	9.317	ES
Currier BCU 0993-16-15W - OH - Design #2	400.0	401.0	44.5	38.5	7.483	SF

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 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	133.37	-1,866.1	1,975.2	2,720.9			
100.0	100.0	0.0	0.0	0.8	0.0	133.37	-1,866.1	1,975.2	2,717.6	2,716.8	3,428.201	
139.2	139.2	0.0	0.0	1.0	0.0	-101.63	-1,866.1	1,975.2	2,717.3	2,716.3	2,720.919	
200.0	200.0	56.8	56.8	1.3	0.4	-101.63	-1,866.2	1,975.2	2,717.3	2,715.6	1,554.863	
300.0	300.0	151.3	151.3	2.3	1.1	-101.65	-1,866.4	1,975.2	2,718.0	2,714.8	867.571	
400.0	399.8	239.3	239.3	3.5	1.8	-101.72	-1,866.8	1,975.4	2,719.6	2,715.4	657.854	
500.0	499.4	311.0	311.0	3.8	2.2	-95.73	-1,867.2	1,976.2	2,722.3	2,717.7	588.438	
600.0	598.7	488.2	488.1	4.4	2.9	-89.79	-1,865.5	1,977.0	2,721.9	2,716.3	484.123	
700.0	697.5	544.9	544.9	5.1	3.0	-86.07	-1,864.6	1,977.5	2,720.9	2,714.8	441.876	
800.0	795.7	616.4	616.4	5.8	3.3	-83.75	-1,863.9	1,979.4	2,720.4	2,713.6	397.427	
900.0	893.3	725.8	725.6	6.5	3.9	-82.49	-1,861.1	1,983.4	2,718.7	2,711.0	353.644	
1,000.0	990.0	804.1	803.8	7.1	4.0	-81.61	-1,858.6	1,986.9	2,716.4	2,708.2	329.613	
1,100.0	1,085.8	879.4	878.9	7.7	4.2	-81.10	-1,856.4	1,990.9	2,714.2	2,705.4	308.397	
1,200.0	1,180.6	977.7	977.0	8.3	4.4	-81.07	-1,852.8	1,996.9	2,711.5	2,702.0	286.204	
1,300.0	1,274.2	1,071.1	1,070.2	8.9	4.6	-81.24	-1,849.0	2,002.8	2,708.2	2,698.0	265.289	

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



# Anticollision Report



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<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Currier BCU Fed 0993-16-12W	<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	
1,400.0	1,367.1	1,159.4	1,158.2	9.4	4.8	-82.04	-1,845.5	2,008.2	2,705.1	2,694.1	247.100		
1,500.0	1,460.1	1,249.4	1,248.0	9.7	5.1	-82.85	-1,841.9	2,013.9	2,702.7	2,691.0	231.591		
1,600.0	1,553.1	1,372.7	1,370.8	10.1	5.6	-84.00	-1,835.6	2,021.9	2,700.5	2,688.0	215.360		
1,700.0	1,646.1	1,458.9	1,456.7	10.5	6.0	-84.82	-1,830.0	2,027.4	2,698.4	2,685.0	202.152		
1,800.0	1,739.0	1,542.3	1,539.8	10.9	6.3	-85.61	-1,825.2	2,032.8	2,697.3	2,683.1	190.454		
1,900.0	1,832.0	1,638.9	1,636.0	11.3	6.7	-86.52	-1,819.5	2,039.1	2,696.9	2,681.9	179.522		
1,924.9	1,855.2	1,661.7	1,658.7	11.4	6.8	-86.74	-1,818.1	2,040.5	2,696.9	2,681.6	177.010	CC	
2,000.0	1,925.0	1,729.5	1,726.3	11.8	7.0	-87.39	-1,813.8	2,044.9	2,697.1	2,681.2	169.939	ES	
2,100.0	2,017.9	1,814.4	1,810.8	12.2	7.4	-88.19	-1,808.5	2,050.4	2,698.0	2,681.3	161.442		
2,200.0	2,110.9	1,895.9	1,892.0	12.6	7.7	-88.97	-1,803.5	2,055.9	2,699.9	2,682.4	153.831		
2,300.0	2,203.9	1,982.8	1,978.5	13.1	8.1	-89.79	-1,798.3	2,061.9	2,702.8	2,684.4	146.780		
2,400.0	2,296.9	2,064.8	2,060.2	13.6	8.4	-90.57	-1,793.4	2,067.6	2,706.5	2,687.2	140.461		
2,500.0	2,389.8	2,144.5	2,139.5	14.0	8.7	-91.32	-1,788.9	2,073.4	2,711.3	2,691.1	134.742		
2,600.0	2,482.8	2,231.4	2,226.1	14.5	9.0	-92.13	-1,784.2	2,079.9	2,717.0	2,696.0	129.344		
2,700.0	2,575.8	2,313.6	2,307.9	15.0	9.4	-92.90	-1,779.9	2,086.0	2,723.5	2,701.6	124.466		
2,800.0	2,668.7	2,396.0	2,390.0	15.5	9.7	-93.66	-1,775.8	2,092.4	2,731.1	2,708.3	119.975		
2,900.0	2,761.7	2,510.2	2,503.6	16.0	10.2	-94.72	-1,769.6	2,101.0	2,739.0	2,715.3	115.320		
3,000.0	2,854.7	2,602.8	2,595.8	16.5	10.5	-95.58	-1,764.1	2,107.6	2,747.2	2,722.5	111.368		
3,100.0	2,947.7	2,686.2	2,678.8	17.1	10.9	-96.35	-1,759.1	2,113.6	2,756.1	2,730.5	107.831		
3,200.0	3,040.6	2,765.2	2,757.5	17.6	11.2	-97.08	-1,754.3	2,119.7	2,766.0	2,739.6	104.614		
3,300.0	3,133.6	2,858.5	2,850.4	18.2	11.6	-97.94	-1,748.7	2,126.9	2,776.7	2,749.3	101.430		
3,400.0	3,226.6	2,943.1	2,934.6	18.8	11.9	-98.71	-1,743.6	2,133.4	2,788.1	2,759.8	98.567		
3,500.0	3,319.5	3,025.7	3,016.7	19.4	12.2	-99.47	-1,738.4	2,140.0	2,800.4	2,771.2	95.945		
3,600.0	3,412.5	3,112.0	3,102.5	20.0	12.6	-100.26	-1,732.5	2,147.2	2,813.4	2,783.3	93.516		
3,700.0	3,505.5	3,185.7	3,175.7	20.6	12.8	-100.94	-1,726.9	2,153.8	2,827.5	2,796.6	91.388		
3,800.0	3,598.5	3,260.5	3,249.9	21.2	13.1	-101.64	-1,720.8	2,160.9	2,842.7	2,810.9	89.327		
3,900.0	3,691.4	3,336.7	3,325.5	21.9	13.5	-102.35	-1,714.6	2,168.6	2,859.1	2,826.4	87.394		
4,000.0	3,784.4	3,418.5	3,406.5	22.5	13.8	-103.12	-1,707.5	2,177.1	2,876.4	2,842.8	85.552		
4,100.0	3,877.4	3,506.0	3,493.1	23.1	14.1	-103.94	-1,699.1	2,186.5	2,894.4	2,859.8	83.774		
4,200.0	3,970.3	3,560.5	3,547.0	23.8	14.4	-104.46	-1,693.4	2,192.7	2,913.6	2,878.3	82.431		
4,300.0	4,063.3	3,598.0	3,583.9	24.4	14.6	-104.82	-1,689.3	2,197.4	2,934.7	2,898.7	81.408		
4,400.0	4,156.3	3,667.6	3,652.3	25.0	14.9	-105.50	-1,681.1	2,207.1	2,957.4	2,920.4	80.053		
4,500.0	4,249.3	3,716.0	3,699.8	25.7	15.2	-105.98	-1,674.8	2,214.4	2,981.8	2,944.1	79.052		
4,600.0	4,342.2	3,759.3	3,742.1	26.3	15.4	-106.41	-1,668.9	2,221.7	3,008.0	2,969.6	78.210		
4,700.0	4,435.2	3,784.0	3,766.1	27.0	15.5	-106.66	-1,665.4	2,226.1	3,036.3	2,997.2	77.733		
4,800.0	4,528.2	3,840.9	3,821.3	27.6	15.9	-107.23	-1,657.2	2,237.0	3,066.3	3,026.4	76.867		
4,900.0	4,621.1	3,877.0	3,856.3	28.2	16.1	-107.59	-1,652.0	2,244.5	3,098.3	3,057.7	76.402		
5,000.0	4,714.1	3,920.8	3,898.6	28.9	16.3	-108.02	-1,645.6	2,254.1	3,132.1	3,090.8	75.883		
5,100.0	4,807.1	3,970.0	3,945.7	29.5	16.6	-108.52	-1,637.9	2,265.7	3,167.7	3,125.7	75.365		
5,200.0	4,900.4	4,005.5	3,979.6	30.1	16.8	-109.42	-1,632.2	2,274.5	3,204.6	3,162.0	75.207		
5,300.0	4,994.9	4,060.1	4,031.6	30.7	17.0	-110.69	-1,623.2	2,288.5	3,242.1	3,198.8	74.868		
5,400.0	5,090.4	4,124.0	4,092.2	31.2	17.3	-112.00	-1,611.9	2,305.3	3,279.5	3,235.4	74.489		
5,500.0	5,186.9	4,169.3	4,135.0	31.7	17.6	-113.12	-1,603.2	2,317.6	3,316.9	3,272.4	74.451		
5,600.0	5,284.3	4,216.0	4,178.8	32.1	17.8	-114.22	-1,593.9	2,330.7	3,354.5	3,309.5	74.491		
5,700.0	5,382.4	4,288.0	4,246.2	32.5	18.2	-115.45	-1,579.3	2,351.5	3,391.8	3,346.1	74.199		
5,800.0	5,481.1	4,365.0	4,318.2	32.8	18.6	-116.64	-1,563.9	2,374.0	3,428.4	3,382.0	73.910		
5,900.0	5,580.4	4,451.4	4,399.0	33.0	19.0	-117.80	-1,546.7	2,399.4	3,463.9	3,416.9	73.563		
6,000.0	5,679.9	4,549.1	4,490.2	33.2	19.5	-118.92	-1,526.8	2,428.1	3,498.1	3,450.3	73.101		
6,100.0	5,779.8	4,644.2	4,578.9	33.3	20.0	-119.95	-1,506.2	2,455.7	3,530.7	3,482.2	72.727		
6,200.0	5,879.8	4,732.2	4,660.7	33.4	20.4	-120.87	-1,486.4	2,481.1	3,561.8	3,512.8	72.591		
6,300.0	5,979.8	4,808.0	4,731.2	33.4	20.8	88.35	-1,469.3	2,503.3	3,592.4	3,543.0	72.710		

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 Fed 0993-16-12W - Slot 16-12W
<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 Fed 0993-16-12W	<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 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		
6,400.0	6,079.8	4,874.9	4,793.3	33.4	21.2	88.11	-1,454.7	2,523.2	3,623.6	3,574.0	72.964			
6,500.0	6,179.8	4,935.8	4,849.8	33.4	21.5	87.91	-1,441.8	2,542.0	3,655.7	3,605.9	73.314			
6,600.0	6,279.8	5,024.1	4,931.6	33.4	21.9	87.63	-1,423.6	2,569.7	3,688.5	3,638.2	73.270			
6,700.0	6,379.8	5,116.8	5,017.6	33.4	22.4	87.33	-1,404.5	2,598.6	3,721.2	3,670.3	73.159			
6,800.0	6,479.8	5,190.8	5,086.2	33.5	22.7	87.10	-1,389.0	2,622.0	3,754.3	3,703.1	73.323			
6,900.0	6,579.8	5,339.9	5,224.0	33.5	23.5	86.62	-1,356.3	2,668.2	3,787.3	3,735.0	72.431			
7,000.0	6,679.8	5,482.4	5,356.2	33.5	24.2	86.13	-1,323.0	2,709.9	3,818.5	3,765.2	71.650			
7,100.0	6,779.8	5,562.5	5,430.4	33.5	24.6	85.86	-1,303.8	2,732.9	3,849.7	3,796.0	71.698			
7,200.0	6,879.8	5,705.0	5,562.9	33.5	25.4	85.39	-1,270.8	2,773.7	3,880.8	3,826.1	70.935			
7,300.0	6,979.8	5,992.5	5,834.5	33.5	27.1	84.63	-1,214.3	2,849.1	3,909.5	3,852.4	68.392			
7,400.0	7,079.8	6,285.8	6,117.2	33.5	28.5	84.06	-1,170.1	2,913.3	3,933.2	3,874.0	66.382			
7,500.0	7,179.8	6,600.6	6,424.5	33.5	30.0	83.53	-1,128.3	2,966.8	3,952.2	3,891.0	64.551			
7,600.0	7,279.8	6,901.1	6,721.1	33.5	31.3	83.14	-1,097.0	3,003.3	3,966.0	3,903.2	63.154			
7,700.0	7,379.8	7,079.3	6,897.9	33.5	32.2	82.92	-1,080.0	3,018.4	3,975.6	3,912.0	62.467			
7,800.0	7,479.8	7,261.9	7,079.4	33.5	33.1	82.72	-1,064.6	3,030.3	3,983.2	3,918.6	61.665			
7,900.0	7,579.8	7,447.6	7,264.5	33.6	34.1	82.57	-1,053.0	3,039.0	3,988.7	3,923.2	60.880			
8,000.0	7,679.8	7,642.1	7,458.7	33.6	35.1	82.45	-1,043.4	3,044.1	3,991.9	3,925.5	60.134			
8,100.0	7,779.8	7,805.1	7,621.6	33.6	35.8	82.36	-1,036.8	3,045.0	3,992.9	3,925.9	59.606			
8,200.0	7,879.8	7,924.4	7,740.9	33.6	36.2	82.31	-1,033.3	3,044.8	3,993.1	3,925.9	59.366			
8,300.0	7,979.8	8,043.8	7,860.2	33.6	36.6	82.27	-1,031.1	3,044.2	3,992.9	3,925.3	59.122			
8,400.0	8,079.8	8,149.7	7,966.1	33.6	37.1	82.25	-1,029.9	3,043.3	3,992.2	3,924.2	58.735			
8,500.0	8,179.8	8,249.7	8,066.1	33.6	37.6	82.24	-1,028.9	3,042.5	3,991.6	3,923.1	58.291			
8,600.0	8,279.8	8,349.7	8,166.1	33.6	38.2	82.22	-1,027.9	3,041.7	3,990.9	3,921.9	57.854			
8,700.0	8,379.8	8,449.7	8,266.1	33.6	38.8	82.21	-1,026.8	3,040.9	3,990.2	3,920.7	57.422			
8,800.0	8,479.8	8,549.7	8,366.0	33.7	39.3	82.19	-1,025.8	3,040.1	3,989.6	3,919.6	56.997			
8,886.6	8,566.4	8,610.0	8,426.4	33.7	39.7	82.18	-1,025.2	3,039.6	3,989.1	3,918.8	56.741	SF		
8,900.0	8,579.8	8,610.0	8,426.4	33.7	39.7	82.18	-1,025.2	3,039.6	3,989.1	3,918.8	56.742			
9,000.0	8,679.8	8,610.0	8,426.4	33.7	39.7	82.18	-1,025.2	3,039.6	3,990.7	3,920.4	56.784			
9,007.2	8,687.0	8,610.0	8,426.4	33.7	39.7	82.18	-1,025.2	3,039.6	3,990.9	3,920.6	56.789			

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 Fed 0993-16-12W - Slot 16-12W
<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 Fed 0993-16-12W	<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	66.09	829.1	1,870.2	2,045.8				
100.0	100.0	91.8	91.8	0.8	0.7	66.09	829.2	1,870.2	2,045.7	2,044.3	1,419.002		
173.2	173.2	165.6	165.6	1.2	1.2	-168.92	829.3	1,870.0	2,045.8	2,043.4	870.609		
200.0	200.0	192.7	192.7	1.3	1.4	-168.92	829.4	1,870.0	2,045.7	2,043.0	762.775	CC, ES	
300.0	300.0	292.7	292.7	2.3	2.3	-168.94	829.8	1,869.7	2,047.7	2,043.0	441.006		
400.0	399.8	392.5	392.5	3.5	3.3	-168.96	830.1	1,869.5	2,053.1	2,046.3	302.821		
500.0	499.4	492.7	492.7	3.8	5.4	-162.87	830.6	1,869.2	2,061.7	2,052.6	226.235		
600.0	598.7	592.5	592.5	4.4	7.5	-156.44	831.1	1,868.8	2,072.9	2,061.2	176.835		
700.0	697.5	691.9	691.9	5.1	9.5	-152.51	831.8	1,868.3	2,086.6	2,072.2	144.523		
800.0	795.7	790.6	790.6	5.8	11.6	-149.91	832.5	1,867.8	2,102.9	2,085.8	123.017		
900.0	893.3	888.6	888.6	6.5	13.6	-148.09	833.4	1,867.2	2,121.6	2,101.9	107.678		
1,000.0	990.0	985.5	985.4	7.1	15.3	-146.77	834.4	1,866.5	2,143.0	2,120.9	97.237		
1,100.0	1,085.8	1,079.3	1,079.3	7.7	15.6	-145.78	835.2	1,866.0	2,166.9	2,144.1	95.079		
1,200.0	1,180.6	1,169.4	1,169.4	8.3	15.7	-144.99	835.8	1,865.7	2,193.6	2,170.1	93.302		
1,300.0	1,274.2	1,258.2	1,258.1	8.9	15.9	-144.37	836.5	1,865.5	2,223.1	2,198.9	91.738		
1,400.0	1,367.1	1,348.0	1,347.9	9.4	16.1	-144.90	837.4	1,865.5	2,254.3	2,229.4	90.680		
1,500.0	1,460.1	1,446.8	1,446.7	9.7	16.4	-145.48	838.5	1,865.3	2,285.5	2,260.0	89.550		
1,600.0	1,553.1	1,545.6	1,545.5	10.1	16.7	-146.05	839.7	1,864.7	2,316.7	2,290.5	88.424		
1,700.0	1,646.1	1,640.0	1,639.9	10.5	16.9	-146.58	840.9	1,863.9	2,347.9	2,321.0	87.343		
1,800.0	1,739.0	1,731.6	1,731.6	10.9	17.2	-147.09	842.2	1,863.1	2,379.3	2,351.7	86.309		
1,900.0	1,832.0	1,823.2	1,823.1	11.3	17.5	-147.59	843.5	1,862.3	2,410.9	2,382.6	85.309		
2,000.0	1,925.0	1,914.5	1,914.4	11.8	17.8	-148.08	845.0	1,861.5	2,442.7	2,413.7	84.368		
2,100.0	2,017.9	2,005.7	2,005.6	12.2	18.1	-148.55	846.6	1,860.6	2,474.7	2,445.1	83.467		
2,200.0	2,110.9	2,096.7	2,096.5	12.6	18.3	-149.02	848.4	1,859.7	2,507.0	2,476.6	82.606		
2,300.0	2,203.9	2,186.6	2,186.4	13.1	18.6	-149.48	850.3	1,858.8	2,539.5	2,508.4	81.806		
2,400.0	2,296.9	2,276.4	2,276.2	13.6	18.9	-149.93	852.3	1,858.0	2,572.2	2,540.5	81.041		
2,500.0	2,389.8	2,365.9	2,365.7	14.0	19.1	-150.36	854.5	1,857.1	2,605.2	2,572.7	80.316		
2,600.0	2,482.8	2,455.2	2,454.9	14.5	19.4	-150.79	856.6	1,856.4	2,638.4	2,605.3	79.633		
2,700.0	2,575.8	2,544.4	2,544.1	15.0	19.6	-151.20	858.7	1,855.9	2,671.9	2,638.1	78.979		
2,800.0	2,668.7	2,634.0	2,633.7	15.5	19.9	-151.59	860.7	1,855.6	2,705.6	2,671.1	78.345		
2,900.0	2,761.7	2,723.7	2,723.4	16.0	20.2	-151.98	862.7	1,855.3	2,739.6	2,704.3	77.731		
3,000.0	2,854.7	2,813.4	2,813.1	16.5	20.4	-152.36	864.7	1,855.1	2,773.7	2,737.7	77.144		
3,100.0	2,947.7	2,907.7	2,907.4	17.1	20.7	-152.75	866.8	1,855.0	2,808.0	2,771.3	76.616		
3,200.0	3,040.6	3,003.8	3,003.4	17.6	20.9	-153.14	868.8	1,854.9	2,842.2	2,804.9	76.114		
3,300.0	3,133.6	3,091.1	3,090.6	18.2	21.1	-153.48	870.6	1,854.6	2,876.6	2,838.6	75.777		
3,400.0	3,226.6	3,157.0	3,156.5	18.8	21.2	-153.75	872.7	1,854.3	2,911.4	2,872.9	75.679		
3,500.0	3,319.5	3,230.7	3,230.1	19.4	21.4	-154.07	876.5	1,853.5	2,947.0	2,908.0	75.577		
3,600.0	3,412.5	3,291.5	3,290.8	20.0	21.5	-154.36	881.1	1,852.5	2,983.7	2,944.2	75.566		
3,700.0	3,505.5	3,345.0	3,344.0	20.6	21.7	-154.63	886.4	1,851.3	3,021.5	2,981.5	75.631		
3,800.0	3,598.5	3,414.7	3,413.1	21.2	21.9	-155.02	894.9	1,849.4	3,060.2	3,019.8	75.622		
3,900.0	3,691.4	3,471.3	3,469.2	21.9	22.1	-155.34	903.1	1,847.6	3,100.0	3,059.0	75.728		
4,000.0	3,784.4	3,531.0	3,528.0	22.5	22.2	-155.70	912.6	1,845.7	3,140.9	3,099.5	75.852		
4,100.0	3,877.4	3,580.4	3,576.6	23.1	22.4	-156.00	921.3	1,844.3	3,183.0	3,141.2	76.074		
4,200.0	3,970.3	3,624.0	3,619.4	23.8	22.5	-156.27	929.5	1,842.9	3,226.2	3,183.9	76.376		
4,300.0	4,063.3	3,690.9	3,684.8	24.4	22.7	-156.70	943.4	1,840.6	3,270.3	3,227.5	76.501		
4,400.0	4,156.3	3,750.3	3,742.5	25.0	22.9	-157.10	957.2	1,838.0	3,315.5	3,272.3	76.706		
4,500.0	4,249.3	3,811.0	3,801.2	25.7	23.1	-157.52	972.3	1,834.9	3,361.5	3,317.8	76.914		
4,600.0	4,342.2	3,874.1	3,862.1	26.3	23.3	-157.97	988.9	1,831.5	3,408.3	3,364.1	77.125		
4,700.0	4,435.2	3,931.9	3,917.6	27.0	23.4	-158.38	1,004.7	1,828.3	3,455.9	3,411.3	77.396		
4,800.0	4,528.2	3,999.0	3,981.6	27.6	23.6	-158.86	1,024.1	1,824.3	3,504.5	3,459.3	77.593		
4,900.0	4,621.1	4,042.1	4,022.6	28.2	23.8	-159.18	1,037.1	1,821.6	3,553.9	3,508.4	78.026		

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 Fed 0993-16-12W - Slot 16-12W
<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 Fed 0993-16-12W	<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		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)			
5,000.0	4,714.1	4,092.0	4,070.0	28.9	23.9	-159.54	1,052.5	1,818.6	3,604.3	3,558.4	78.415		
5,100.0	4,807.1	4,167.1	4,141.1	29.5	24.1	-160.09	1,076.3	1,814.0	3,655.4	3,608.8	78.556		
5,200.0	4,900.4	4,232.8	4,203.2	30.1	24.3	-160.84	1,097.4	1,809.8	3,706.2	3,659.2	78.787		
5,300.0	4,994.9	4,302.1	4,268.5	30.7	24.5	-161.66	1,120.1	1,805.4	3,754.9	3,707.3	78.860		
5,400.0	5,090.4	4,430.6	4,389.7	31.2	24.9	-162.78	1,161.9	1,796.9	3,800.6	3,752.1	78.222		
5,500.0	5,186.9	4,516.0	4,470.4	31.7	25.1	-163.54	1,189.1	1,790.6	3,842.8	3,793.5	77.956		
5,600.0	5,284.3	4,564.0	4,515.8	32.1	25.3	-164.05	1,204.5	1,787.5	3,882.9	3,833.2	78.070		
5,700.0	5,382.4	4,657.4	4,603.9	32.5	25.5	-164.74	1,234.9	1,781.7	3,920.5	3,870.1	77.700		
5,800.0	5,481.1	4,764.9	4,705.3	32.8	25.9	-165.46	1,270.0	1,774.2	3,954.9	3,903.6	77.140		
5,900.0	5,580.4	4,870.4	4,804.6	33.0	26.2	-166.11	1,304.3	1,766.2	3,985.9	3,933.8	76.572		
6,000.0	5,679.9	4,977.3	4,905.3	33.2	26.6	-166.72	1,339.1	1,757.6	4,013.5	3,960.7	75.967		
6,100.0	5,779.8	5,143.4	5,062.5	33.3	27.2	-167.52	1,391.4	1,744.1	4,037.4	3,983.4	74.750		
6,200.0	5,879.8	5,611.7	5,518.5	33.4	29.0	-168.82	1,492.8	1,721.3	4,053.2	3,996.4	71.279		
6,300.0	5,979.8	5,724.8	5,630.5	33.4	29.4	40.53	1,508.1	1,718.0	4,061.6	4,004.4	71.008		
6,400.0	6,079.8	5,829.7	5,734.6	33.4	29.7	40.40	1,521.0	1,716.3	4,069.9	4,012.5	70.830		
6,500.0	6,179.8	6,215.0	6,118.8	33.4	30.8	40.17	1,546.5	1,716.4	4,075.9	4,016.9	69.107		
6,600.0	6,279.8	6,301.0	6,204.8	33.4	31.0	40.15	1,548.3	1,716.2	4,077.4	4,018.3	69.016		
6,700.0	6,379.8	6,390.0	6,293.8	33.4	31.2	40.13	1,550.4	1,716.3	4,079.2	4,020.0	68.906		
6,800.0	6,479.8	6,503.9	6,407.7	33.5	31.5	40.10	1,553.2	1,716.2	4,081.1	4,021.5	68.577		
6,900.0	6,579.8	6,629.5	6,533.2	33.5	31.9	40.06	1,556.3	1,714.8	4,082.3	4,022.4	68.183		
7,000.0	6,679.8	6,748.9	6,652.6	33.5	32.3	40.00	1,559.5	1,712.3	4,082.9	4,022.8	67.853		
7,100.0	6,779.8	6,859.2	6,762.8	33.5	32.6	39.95	1,562.2	1,709.6	4,083.2	4,022.9	67.622		
7,200.0	6,879.8	6,964.0	6,867.5	33.5	32.9	39.90	1,564.5	1,707.1	4,083.4	4,022.8	67.420		
7,300.0	6,979.8	7,066.7	6,970.2	33.5	33.2	39.87	1,566.2	1,705.1	4,083.4	4,022.7	67.232		
7,400.0	7,079.8	7,212.0	7,115.4	33.5	33.4	39.83	1,567.4	1,703.0	4,083.2	4,022.3	67.021		
7,500.0	7,179.8	7,361.2	7,264.6	33.5	33.7	39.83	1,565.3	1,700.8	4,081.1	4,020.0	66.792		
7,600.0	7,279.8	7,435.2	7,338.7	33.5	33.9	39.81	1,564.9	1,699.1	4,079.1	4,017.8	66.588		
7,700.0	7,379.8	7,509.2	7,412.6	33.5	34.2	39.78	1,565.7	1,696.6	4,077.7	4,016.3	66.396		
7,800.0	7,479.8	7,646.9	7,550.1	33.5	34.6	39.69	1,568.7	1,690.4	4,076.6	4,014.6	65.737		
7,900.0	7,579.8	7,797.4	7,700.4	33.6	35.1	39.60	1,569.5	1,682.8	4,073.7	4,011.1	65.042		
8,000.0	7,679.8	7,874.8	7,777.7	33.6	35.3	39.55	1,569.7	1,678.9	4,070.8	4,008.1	64.958		
8,100.0	7,779.8	7,952.1	7,854.9	33.6	35.4	39.51	1,570.4	1,675.3	4,068.5	4,005.8	64.885		
8,200.0	7,879.8	8,034.1	7,936.9	33.6	35.6	39.46	1,571.3	1,671.8	4,066.6	4,003.9	64.801		
8,300.0	7,979.8	8,120.3	8,022.9	33.6	35.8	39.42	1,572.4	1,668.6	4,065.2	4,002.4	64.704		
8,400.0	8,079.8	8,201.0	8,103.6	33.6	36.0	39.38	1,573.3	1,666.0	4,064.1	4,001.2	64.630		
8,500.0	8,179.8	8,294.5	8,197.1	33.6	36.3	39.34	1,574.5	1,663.3	4,063.3	4,000.2	64.382		
8,600.0	8,279.8	8,382.5	8,285.0	33.6	36.6	39.30	1,576.1	1,660.7	4,062.8	3,999.5	64.164		
8,700.0	8,379.8	8,470.4	8,372.9	33.6	36.9	39.25	1,578.1	1,658.0	4,062.6	3,999.1	63.952		
8,717.2	8,397.0	8,485.5	8,388.0	33.6	37.0	39.24	1,578.5	1,657.5	4,062.6	3,999.0	63.917		
8,800.0	8,479.8	8,559.7	8,462.1	33.7	37.2	39.20	1,580.6	1,655.1	4,062.7	3,999.0	63.761	SF	
8,900.0	8,579.8	8,590.0	8,492.4	33.7	37.3	39.18	1,581.4	1,654.1	4,063.5	3,999.9	63.871		
9,000.0	8,679.8	8,590.0	8,492.4	33.7	37.3	39.18	1,581.4	1,654.1	4,066.6	4,003.2	64.119		
9,007.2	8,687.0	8,590.0	8,492.4	33.7	37.3	39.18	1,581.4	1,654.1	4,067.0	4,003.6	64.139		

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 Fed 0993-16-12W - Slot 16-12W
<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 Fed 0993-16-12W	<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 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	133.66	-1,866.1	1,955.3	2,706.5			
100.0	100.0	0.0	0.0	0.8	0.0	133.66	-1,866.1	1,955.3	2,703.2	2,702.4	3,410.039	
157.2	157.2	17.6	17.6	1.1	0.1	-101.34	-1,866.1	1,955.3	2,702.9	2,701.7	2,250.204	
200.0	200.0	61.3	61.3	1.3	0.4	-101.34	-1,866.2	1,955.3	2,702.9	2,701.2	1,595.863	
300.0	300.0	163.2	163.2	2.3	1.0	-101.36	-1,866.5	1,954.9	2,703.2	2,700.3	905.418	
400.0	399.8	275.1	275.1	3.5	1.6	-101.47	-1,866.8	1,954.4	2,704.2	2,700.2	680.091	
500.0	499.4	409.3	409.3	3.8	2.2	-95.61	-1,866.4	1,952.1	2,704.1	2,699.5	582.917	
600.0	598.7	527.7	527.7	4.4	2.6	-89.50	-1,866.1	1,948.8	2,702.4	2,697.1	503.787	
700.0	697.5	662.1	661.9	5.1	3.1	-86.02	-1,864.3	1,944.3	2,698.3	2,692.2	441.661	
800.0	795.7	781.4	781.1	5.8	3.5	-83.94	-1,861.9	1,939.7	2,692.4	2,685.5	394.152	
900.0	893.3	907.7	907.2	6.5	3.9	-82.77	-1,858.2	1,934.2	2,684.4	2,676.8	352.925	
1,000.0	990.0	1,062.4	1,061.6	7.1	4.5	-82.34	-1,853.1	1,924.9	2,674.2	2,665.6	311.423	
1,100.0	1,085.8	1,239.2	1,237.5	7.7	5.3	-82.49	-1,846.3	1,909.0	2,660.6	2,650.9	272.850	
1,200.0	1,180.6	1,388.5	1,385.6	8.3	6.0	-82.89	-1,838.4	1,891.9	2,643.6	2,632.7	243.717	
1,300.0	1,274.2	1,501.6	1,497.6	8.9	6.5	-83.36	-1,831.1	1,878.0	2,624.6	2,612.7	221.310	
1,400.0	1,367.1	1,577.7	1,573.0	9.4	6.8	-83.94	-1,826.4	1,868.5	2,605.7	2,592.9	204.325	
1,500.0	1,460.1	1,692.5	1,686.6	9.7	7.3	-84.81	-1,819.8	1,853.8	2,587.3	2,573.5	187.727	
1,600.0	1,553.1	1,853.9	1,846.0	10.1	8.0	-86.06	-1,808.3	1,830.5	2,567.1	2,552.1	170.806	
1,700.0	1,646.1	2,093.7	2,080.9	10.5	9.1	-88.00	-1,784.4	1,789.2	2,543.8	2,527.1	152.446	
1,800.0	1,739.0	2,280.2	2,261.7	10.9	10.1	-89.58	-1,760.2	1,750.2	2,516.6	2,498.4	138.391	
1,900.0	1,832.0	2,448.0	2,422.8	11.3	10.9	-91.06	-1,735.3	1,710.5	2,486.7	2,467.2	127.214	
2,000.0	1,925.0	2,648.5	2,613.0	11.8	11.9	-92.92	-1,700.8	1,657.3	2,454.0	2,432.9	116.446	
2,100.0	2,017.9	2,837.5	2,789.5	12.2	12.9	-94.73	-1,665.2	1,600.1	2,418.2	2,395.7	107.227	
2,200.0	2,110.9	2,992.5	2,932.2	12.6	13.7	-96.28	-1,633.8	1,548.1	2,379.5	2,355.7	99.687	
2,300.0	2,203.9	3,079.4	3,011.6	13.1	14.2	-97.16	-1,616.1	1,517.8	2,340.3	2,315.4	93.830	
2,400.0	2,296.9	3,172.1	3,096.3	13.6	14.6	-98.13	-1,597.4	1,485.0	2,301.5	2,275.4	88.387	
2,500.0	2,389.8	3,260.7	3,177.1	14.0	15.0	-99.09	-1,579.2	1,453.7	2,262.9	2,235.8	83.406	
2,600.0	2,482.8	3,345.8	3,254.8	14.5	15.5	-100.03	-1,561.7	1,423.5	2,224.9	2,196.7	78.834	
2,700.0	2,575.8	3,425.6	3,327.6	15.0	15.9	-100.93	-1,545.8	1,395.0	2,187.6	2,158.3	74.643	
2,800.0	2,668.7	3,513.6	3,408.0	15.5	16.3	-101.93	-1,529.0	1,363.3	2,151.1	2,120.7	70.721	
2,900.0	2,761.7	3,609.5	3,495.4	16.0	16.8	-103.04	-1,511.2	1,328.2	2,114.9	2,083.4	67.042	
3,000.0	2,854.7	3,709.2	3,586.0	16.5	17.3	-104.22	-1,492.5	1,291.2	2,078.9	2,046.2	63.601	
3,100.0	2,947.7	3,795.2	3,664.1	17.1	17.7	-105.28	-1,476.0	1,258.9	2,043.1	2,009.3	60.437	
3,200.0	3,040.6	3,884.4	3,745.0	17.6	18.2	-106.41	-1,459.1	1,225.5	2,008.2	1,973.2	57.480	
3,300.0	3,133.6	3,974.8	3,826.9	18.2	18.6	-107.57	-1,442.4	1,191.1	1,973.7	1,937.6	54.714	
3,400.0	3,226.6	4,056.8	3,901.2	18.8	19.1	-108.65	-1,427.3	1,159.9	1,939.9	1,902.7	52.147	
3,500.0	3,319.5	4,140.0	3,976.7	19.4	19.5	-109.77	-1,412.3	1,128.3	1,907.2	1,868.9	49.750	
3,600.0	3,412.5	4,230.8	4,059.0	20.0	20.0	-111.02	-1,396.0	1,093.6	1,875.3	1,835.8	47.492	
3,700.0	3,505.5	4,319.7	4,139.5	20.6	20.5	-112.28	-1,380.0	1,059.5	1,844.0	1,803.4	45.375	
3,800.0	3,598.5	4,405.8	4,217.5	21.2	21.0	-113.53	-1,364.7	1,026.2	1,813.5	1,771.8	43.391	
3,900.0	3,691.4	4,481.0	4,285.7	21.9	21.5	-114.63	-1,352.0	997.2	1,784.3	1,741.4	41.554	
4,000.0	3,784.4	4,541.9	4,341.3	22.5	22.0	-115.52	-1,342.6	974.1	1,757.0	1,712.9	39.860	
4,100.0	3,877.4	4,612.9	4,406.4	23.1	22.5	-116.54	-1,332.6	947.9	1,731.8	1,686.6	38.292	
4,200.0	3,970.3	4,690.6	4,477.9	23.8	23.0	-117.69	-1,321.7	919.5	1,708.1	1,661.8	36.830	
4,300.0	4,063.3	4,761.0	4,543.0	24.4	23.5	-118.77	-1,311.2	894.5	1,686.3	1,638.8	35.493	
4,400.0	4,156.3	4,836.9	4,613.2	25.0	24.1	-119.98	-1,299.2	868.3	1,666.3	1,617.7	34.251	
4,500.0	4,249.3	4,913.8	4,684.4	25.7	24.6	-121.24	-1,286.6	842.3	1,648.1	1,598.3	33.100	
4,600.0	4,342.2	4,989.0	4,754.1	26.3	25.1	-122.50	-1,273.8	817.3	1,631.8	1,580.8	32.042	
4,700.0	4,435.2	5,071.8	4,831.1	27.0	25.7	-123.93	-1,259.2	790.4	1,617.4	1,565.3	31.061	
4,800.0	4,528.2	5,159.7	4,912.7	27.6	26.3	-125.45	-1,244.1	761.5	1,604.1	1,550.9	30.136	
4,900.0	4,621.1	5,224.0	4,972.6	28.2	26.7	-126.57	-1,233.0	740.8	1,593.0	1,538.7	29.329	

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 Fed 0993-16-12W - Slot 16-12W
<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 Fed 0993-16-12W	<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 16-10 - Wellbore #1 - Wellbore #1											Offset Site Error:	0.0 usft
Survey Program: 157-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
5,000.0	4,714.1	5,298.3	5,042.0	28.9	27.2	-127.89	-1,220.1	717.7	1,584.3	1,528.9	28.592	
5,100.0	4,807.1	5,375.0	5,113.9	29.5	27.7	-129.25	-1,206.6	694.6	1,577.9	1,521.4	27.927	
5,200.0	4,900.4	5,456.3	5,190.2	30.1	28.2	-130.64	-1,192.1	670.4	1,572.8	1,515.2	27.316	
5,300.0	4,994.9	5,538.8	5,267.5	30.7	28.7	-131.97	-1,177.1	646.0	1,567.2	1,508.6	26.721	
5,400.0	5,090.4	5,629.9	5,353.1	31.2	29.3	-133.38	-1,160.3	619.5	1,561.0	1,501.3	26.132	
5,500.0	5,186.9	5,733.6	5,450.3	31.7	29.9	-134.87	-1,142.3	588.4	1,552.8	1,491.9	25.518	
5,600.0	5,284.3	5,820.1	5,531.6	32.1	30.5	-136.00	-1,127.6	562.6	1,543.1	1,481.2	24.948	
5,700.0	5,382.4	5,878.0	5,586.2	32.5	30.8	-136.84	-1,118.6	545.6	1,532.4	1,469.8	24.461	
5,800.0	5,481.1	5,970.0	5,673.8	32.8	31.3	-137.62	-1,105.1	520.9	1,521.8	1,458.2	23.933	
5,900.0	5,580.4	6,027.8	5,729.2	33.0	31.6	-138.10	-1,097.0	506.8	1,510.9	1,446.7	23.519	
6,000.0	5,679.9	6,114.4	5,812.7	33.2	32.1	-138.78	-1,086.1	486.4	1,498.9	1,433.9	23.052	
6,100.0	5,779.8	6,184.0	5,880.0	33.3	32.4	-139.20	-1,077.9	470.7	1,485.3	1,419.7	22.647	
6,200.0	5,879.8	6,277.0	5,970.5	33.4	32.8	-139.67	-1,068.2	451.5	1,470.8	1,404.7	22.245	
6,300.0	5,979.8	6,332.7	6,025.0	33.4	33.0	-1062.9	-1,062.9	441.6	1,456.9	1,390.7	21.999	
6,400.0	6,079.8	6,402.8	6,093.9	33.4	33.2	69.15	-1,056.5	430.5	1,445.3	1,378.9	21.770	
6,500.0	6,179.8	6,478.1	6,168.3	33.4	33.4	68.77	-1,050.3	420.3	1,435.5	1,368.9	21.572	
6,600.0	6,279.8	6,557.0	6,246.5	33.4	33.6	68.46	-1,045.4	411.4	1,427.2	1,360.5	21.399	
6,700.0	6,379.8	6,637.6	6,326.7	33.4	33.7	68.20	-1,041.5	403.9	1,420.3	1,353.5	21.258	
6,800.0	6,479.8	6,712.3	6,401.1	33.5	33.8	68.02	-1,038.8	398.6	1,415.1	1,348.3	21.175	
6,900.0	6,579.8	6,796.2	6,484.9	33.5	33.9	67.89	-1,037.1	394.7	1,411.5	1,344.5	21.093	
7,000.0	6,679.8	6,885.6	6,574.3	33.5	34.0	67.86	-1,037.3	392.0	1,408.6	1,341.6	21.008	
7,100.0	6,779.8	6,974.9	6,663.5	33.5	34.1	67.85	-1,037.9	390.2	1,406.6	1,339.4	20.935	
7,200.0	6,879.8	7,078.1	6,766.7	33.5	34.3	67.86	-1,038.6	388.8	1,405.0	1,337.5	20.819	
7,300.0	6,979.8	7,196.8	6,885.5	33.5	34.6	67.88	-1,040.2	386.1	1,402.4	1,334.5	20.635	
7,400.0	7,079.8	7,303.8	6,992.3	33.5	34.8	67.90	-1,042.1	382.6	1,398.7	1,330.4	20.478	
7,500.0	7,179.8	7,396.4	7,084.8	33.5	35.1	67.92	-1,043.8	379.8	1,395.2	1,326.7	20.372	
7,600.0	7,279.8	7,491.9	7,180.4	33.5	35.3	67.95	-1,045.6	377.5	1,392.2	1,323.5	20.256	
7,700.0	7,379.8	7,591.8	7,280.1	33.5	35.7	67.97	-1,047.0	374.9	1,389.3	1,320.2	20.118	
7,800.0	7,479.8	7,691.6	7,379.9	33.5	36.0	67.96	-1,047.9	372.1	1,386.4	1,317.0	19.982	
7,900.0	7,579.8	7,790.6	7,478.9	33.6	36.3	67.92	-1,048.2	369.2	1,383.5	1,313.8	19.846	
8,000.0	7,679.8	7,887.6	7,575.9	33.6	36.8	67.88	-1,048.3	366.4	1,380.8	1,310.7	19.707	
8,100.0	7,779.8	7,984.6	7,672.8	33.6	37.2	67.85	-1,048.4	363.8	1,378.3	1,307.8	19.572	
8,200.0	7,879.8	8,082.0	7,770.2	33.6	37.6	67.81	-1,048.4	361.4	1,376.0	1,305.2	19.439	
8,300.0	7,979.8	8,178.4	7,866.6	33.6	38.3	67.77	-1,048.3	359.2	1,373.9	1,302.5	19.242	
8,400.0	8,079.8	8,275.2	7,963.3	33.6	39.0	67.72	-1,048.0	357.1	1,372.1	1,300.0	19.043	
8,500.0	8,179.8	8,372.0	8,060.1	33.6	39.7	67.67	-1,047.4	355.2	1,370.5	1,297.7	18.843	
8,600.0	8,279.8	8,468.8	8,156.9	33.6	40.5	67.61	-1,046.6	353.5	1,369.1	1,295.7	18.653	
8,700.0	8,379.8	8,565.6	8,253.7	33.6	41.2	67.55	-1,045.6	351.8	1,368.0	1,293.9	18.477	
8,800.0	8,479.8	8,669.0	8,357.1	33.7	42.0	67.47	-1,044.2	350.3	1,367.1	1,292.3	18.290	SF
8,891.5	8,571.3	8,743.0	8,431.1	33.7	42.1	67.41	-1,043.2	349.2	1,366.4	1,291.7	18.295	CC, ES
8,900.0	8,579.8	8,743.0	8,431.1	33.7	42.1	67.41	-1,043.2	349.2	1,366.4	1,291.8	18.315	
9,000.0	8,679.8	8,743.0	8,431.1	33.7	42.1	67.41	-1,043.2	349.2	1,370.7	1,297.2	18.650	
9,007.2	8,687.0	8,743.0	8,431.1	33.7	42.1	67.41	-1,043.2	349.2	1,371.3	1,297.9	18.681	

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 Fed 0993-16-12W - Slot 16-12W
<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 Fed 0993-16-12W	<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)	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	-107.20	-747.9	-2,415.6	2,537.6				
100.0	100.0	0.0	0.0	0.8	0.0	-107.20	-747.9	-2,415.6	2,531.2	2,530.4	3,172.268		
200.0	200.0	0.0	0.0	1.3	0.0	17.80	-747.9	-2,415.6	2,528.7	2,527.4	1,917.759		
300.0	300.0	0.0	0.0	2.3	0.0	17.80	-747.9	-2,415.6	2,528.2	2,525.9	1,094.587		
400.0	399.8	146.5	146.5	3.5	4.0	17.87	-748.4	-2,416.6	2,522.9	2,515.5	340.780		
500.0	499.4	224.8	224.8	3.8	6.1	24.07	-749.1	-2,418.1	2,516.4	2,506.6	256.631		
600.0	598.7	303.0	302.9	4.4	8.3	30.70	-750.1	-2,420.1	2,508.6	2,496.1	201.108		
700.0	697.5	381.0	380.9	5.1	10.4	34.93	-751.3	-2,422.8	2,499.4	2,484.1	164.056		
800.0	795.7	458.8	458.6	5.8	12.5	37.93	-752.9	-2,426.0	2,488.8	2,470.9	138.724		
900.0	893.3	536.3	536.0	6.5	14.6	40.24	-754.7	-2,429.9	2,477.0	2,456.4	120.206		
1,000.0	990.0	613.5	613.0	7.1	16.7	42.14	-756.8	-2,434.3	2,463.9	2,440.7	106.011		
1,100.0	1,085.8	690.3	689.6	7.7	18.8	43.80	-759.1	-2,439.2	2,449.7	2,423.8	94.739		
1,200.0	1,180.6	766.7	765.8	8.3	20.9	45.30	-761.7	-2,444.8	2,434.3	2,405.8	85.542		
1,300.0	1,274.2	920.0	918.4	8.9	25.1	47.18	-767.8	-2,457.6	2,419.4	2,386.3	73.046		
1,400.0	1,367.1	920.0	918.4	9.4	25.1	47.19	-767.8	-2,457.6	2,401.4	2,367.8	71.455		
1,500.0	1,460.1	1,020.3	1,018.2	9.7	25.6	47.75	-774.5	-2,466.1	2,385.4	2,351.0	69.281		
1,600.0	1,553.1	1,126.7	1,123.8	10.1	25.9	48.25	-785.2	-2,473.8	2,369.3	2,334.3	67.654		
1,700.0	1,646.1	1,222.2	1,218.5	10.5	25.9	48.72	-794.5	-2,480.6	2,353.3	2,317.7	66.230		
1,800.0	1,739.0	1,328.8	1,324.4	10.9	25.9	49.25	-804.8	-2,488.1	2,337.2	2,301.1	64.804		
1,900.0	1,832.0	1,435.3	1,430.1	11.3	26.0	49.79	-815.1	-2,495.0	2,320.8	2,284.2	63.383		
2,000.0	1,925.0	1,552.7	1,546.8	11.8	26.0	50.39	-826.4	-2,502.1	2,304.1	2,267.0	61.974		
2,100.0	2,017.9	1,680.4	1,673.6	12.2	26.1	51.03	-839.2	-2,508.0	2,286.3	2,248.6	60.581		
2,200.0	2,110.9	1,797.5	1,790.0	12.6	26.1	51.60	-852.0	-2,511.9	2,267.7	2,229.4	59.198		
2,300.0	2,203.9	1,961.1	1,952.5	13.1	26.3	52.37	-870.9	-2,514.3	2,247.7	2,208.9	57.879		
2,400.0	2,296.9	2,075.9	2,066.5	13.6	26.4	52.91	-884.4	-2,513.8	2,225.9	2,186.5	56.512		
2,500.0	2,389.8	2,223.6	2,213.2	14.0	26.6	53.61	-901.7	-2,510.3	2,202.4	2,162.5	55.247		
2,600.0	2,482.8	2,335.0	2,323.7	14.5	26.7	54.15	-914.8	-2,506.0	2,177.7	2,137.3	53.905		
2,700.0	2,575.8	2,456.4	2,444.2	15.0	26.8	54.78	-927.8	-2,500.0	2,151.8	2,110.9	52.617		
2,800.0	2,668.7	2,563.3	2,550.4	15.5	26.9	55.38	-938.2	-2,494.2	2,125.6	2,084.2	51.310		
2,900.0	2,761.7	2,680.1	2,666.6	16.0	27.0	56.08	-948.6	-2,486.9	2,098.7	2,056.8	50.063		
3,000.0	2,854.7	2,800.2	2,786.0	16.5	27.2	56.83	-958.5	-2,478.1	2,070.9	2,028.5	48.848		
3,100.0	2,947.7	2,909.2	2,894.2	17.1	27.3	57.56	-966.7	-2,468.9	2,042.3	1,999.4	47.600		
3,200.0	3,040.6	3,008.0	2,992.4	17.6	27.4	58.25	-973.6	-2,460.3	2,013.5	1,970.1	46.330		
3,300.0	3,133.6	3,108.1	3,091.9	18.2	27.4	58.97	-980.4	-2,451.2	1,984.7	1,940.7	45.089		
3,400.0	3,226.6	3,199.7	3,182.9	18.8	27.5	59.66	-986.7	-2,442.7	1,956.0	1,911.4	43.836		
3,500.0	3,319.5	3,291.4	3,274.1	19.4	27.6	60.38	-992.3	-2,434.5	1,927.7	1,882.5	42.619		
3,600.0	3,412.5	3,390.7	3,372.8	20.0	27.7	61.21	-997.5	-2,425.3	1,899.6	1,853.8	41.460		
3,700.0	3,505.5	3,483.1	3,464.7	20.6	27.8	62.03	-1,001.3	-2,416.6	1,871.6	1,825.2	40.286		
3,800.0	3,598.5	3,569.7	3,550.8	21.2	27.9	62.83	-1,004.9	-2,408.7	1,844.2	1,797.1	39.116		
3,900.0	3,691.4	3,665.4	3,646.0	21.9	28.0	63.73	-1,008.7	-2,400.0	1,817.3	1,769.5	38.018		
4,000.0	3,784.4	3,758.5	3,738.7	22.5	28.1	64.66	-1,011.8	-2,391.3	1,790.7	1,742.2	36.937		
4,100.0	3,877.4	3,845.8	3,825.6	23.1	28.2	65.56	-1,014.5	-2,383.3	1,764.6	1,715.4	35.870		
4,200.0	3,970.3	3,932.7	3,912.1	23.8	28.3	66.48	-1,017.1	-2,375.5	1,739.3	1,689.4	34.836		
4,300.0	4,063.3	4,029.6	4,008.6	24.4	28.4	67.54	-1,019.6	-2,367.0	1,714.7	1,664.1	33.873		
4,400.0	4,156.3	4,122.1	4,100.7	25.0	28.5	68.60	-1,021.4	-2,358.4	1,690.3	1,638.9	32.919		
4,500.0	4,249.3	4,219.1	4,197.3	25.7	28.6	69.76	-1,023.0	-2,349.4	1,666.5	1,614.5	32.010		
4,600.0	4,342.2	4,309.6	4,287.3	26.3	28.7	70.87	-1,024.2	-2,340.7	1,643.1	1,590.2	31.103		
4,700.0	4,435.2	4,403.6	4,380.9	27.0	28.8	72.05	-1,025.7	-2,331.8	1,620.5	1,566.9	30.240		
4,800.0	4,528.2	4,499.0	4,475.8	27.6	28.9	73.30	-1,026.6	-2,322.3	1,598.2	1,543.9	29.403		
4,900.0	4,621.1	4,587.6	4,564.0	28.2	29.0	74.50	-1,027.1	-2,313.4	1,576.8	1,521.6	28.580		
5,000.0	4,714.1	4,675.3	4,651.2	28.9	29.0	75.72	-1,027.4	-2,304.7	1,556.3	1,500.3	27.789		

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 Fed 0993-16-12W - Slot 16-12W
<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 Fed 0993-16-12W	<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 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	4,807.1	4,758.6	4,734.2	29.5	29.1	76.92	-1,027.4	-2,296.7	1,537.0	1,480.1	27.028		
5,200.0	4,900.4	4,850.2	4,825.3	30.1	29.2	77.97	-1,027.2	-2,288.2	1,519.2	1,461.5	26.338		
5,300.0	4,994.9	4,950.4	4,925.1	30.7	29.3	78.96	-1,027.5	-2,278.5	1,502.4	1,443.9	25.714		
5,400.0	5,090.4	5,041.5	5,015.7	31.2	29.4	79.77	-1,027.7	-2,269.5	1,486.8	1,427.7	25.130		
5,500.0	5,186.9	5,129.0	5,102.8	31.7	29.5	80.47	-1,027.9	-2,261.3	1,472.9	1,413.0	24.603		
5,600.0	5,284.3	5,218.7	5,192.2	32.1	29.6	81.12	-1,027.9	-2,253.3	1,460.4	1,400.0	24.141		
5,700.0	5,382.4	5,313.2	5,286.3	32.5	29.7	81.71	-1,028.2	-2,245.1	1,449.2	1,388.1	23.737		
5,800.0	5,481.1	5,414.0	5,386.8	32.8	29.8	82.25	-1,028.2	-2,236.5	1,438.8	1,377.3	23.382		
5,900.0	5,580.4	5,511.6	5,484.0	33.0	30.0	82.65	-1,028.6	-2,227.8	1,428.7	1,366.7	23.055		
6,000.0	5,679.9	5,594.7	5,566.8	33.2	30.1	82.87	-1,028.7	-2,221.0	1,419.9	1,357.5	22.761		
6,100.0	5,779.8	5,678.7	5,650.6	33.3	30.2	83.00	-1,028.9	-2,215.3	1,412.8	1,350.1	22.524		
6,200.0	5,879.8	5,775.4	5,747.1	33.4	30.3	83.05	-1,028.9	-2,209.2	1,406.7	1,343.7	22.345		
6,300.0	5,979.8	5,862.7	5,834.3	33.4	30.4	-67.36	-1,029.1	-2,204.3	1,401.4	1,338.3	22.194		
6,400.0	6,079.8	5,950.6	5,922.1	33.4	30.5	-67.29	-1,028.9	-2,200.0	1,397.0	1,333.7	22.062		
6,500.0	6,179.8	6,040.6	6,011.9	33.4	30.6	-67.21	-1,028.6	-2,196.4	1,393.4	1,329.9	21.943		
6,600.0	6,279.8	6,134.2	6,105.6	33.4	30.8	-67.15	-1,028.2	-2,193.2	1,390.5	1,326.8	21.837		
6,700.0	6,379.8	6,231.3	6,202.6	33.4	30.9	-67.09	-1,027.8	-2,190.3	1,387.8	1,324.0	21.741		
6,800.0	6,479.8	6,332.8	6,304.0	33.5	31.0	-67.02	-1,027.4	-2,187.1	1,385.2	1,321.2	21.649		
6,900.0	6,579.8	6,431.7	6,402.9	33.5	31.1	-66.96	-1,027.2	-2,184.2	1,382.5	1,318.4	21.554		
7,000.0	6,679.8	6,521.8	6,493.0	33.5	31.2	-66.92	-1,027.1	-2,181.9	1,380.2	1,315.9	21.466		
7,100.0	6,779.8	6,618.7	6,589.8	33.5	31.4	-66.89	-1,027.0	-2,180.0	1,378.5	1,314.0	21.379		
7,200.0	6,879.8	6,716.4	6,687.5	33.5	31.6	-66.85	-1,026.6	-2,178.2	1,376.9	1,312.2	21.273		
7,300.0	6,979.8	6,814.0	6,785.1	33.5	31.8	-66.79	-1,026.0	-2,176.4	1,375.5	1,310.5	21.171		
7,400.0	7,079.8	6,911.7	6,882.8	33.5	32.0	-66.72	-1,025.0	-2,174.6	1,374.2	1,309.0	21.071		
7,500.0	7,179.8	7,010.8	6,981.9	33.5	32.8	-66.65	-1,023.7	-2,172.9	1,373.1	1,307.0	20.773		
7,600.0	7,279.8	7,110.5	7,081.6	33.5	33.9	-66.58	-1,022.6	-2,171.2	1,372.0	1,304.8	20.404		
7,700.0	7,379.8	7,210.3	7,181.3	33.5	35.0	-66.51	-1,021.6	-2,169.6	1,370.9	1,302.5	20.046		
7,800.0	7,479.8	7,310.0	7,281.0	33.5	36.2	-66.45	-1,020.7	-2,168.1	1,369.9	1,300.4	19.700		
7,900.0	7,579.8	7,409.7	7,380.7	33.6	37.3	-66.40	-1,020.0	-2,166.7	1,368.9	1,298.2	19.365		
8,000.0	7,679.8	7,509.5	7,480.5	33.6	38.4	-66.35	-1,019.4	-2,165.3	1,367.8	1,296.0	19.040		
8,100.0	7,779.8	7,609.2	7,580.2	33.6	39.5	-66.31	-1,018.9	-2,164.0	1,366.9	1,293.9	18.726		
8,200.0	7,879.8	7,706.9	7,677.9	33.6	40.4	-66.27	-1,018.4	-2,162.8	1,365.9	1,292.0	18.477		
8,300.0	7,979.8	7,803.8	7,774.7	33.6	41.2	-66.24	-1,017.9	-2,161.8	1,365.2	1,290.5	18.260		
8,400.0	8,079.8	7,900.6	7,871.6	33.6	42.1	-66.20	-1,017.2	-2,161.0	1,364.8	1,289.2	18.051		
8,500.0	8,179.8	7,997.5	7,968.4	33.6	42.9	-66.15	-1,016.3	-2,160.4	1,364.5	1,288.1	17.849		
8,552.5	8,232.3	8,048.3	8,019.3	33.6	43.3	-66.13	-1,015.8	-2,160.2	1,364.5	1,287.6	17.745	CC	
8,600.0	8,279.8	8,094.3	8,065.3	33.6	43.7	-66.11	-1,015.4	-2,160.0	1,364.5	1,287.2	17.654		
8,700.0	8,379.8	8,191.2	8,162.1	33.6	44.5	-66.06	-1,014.3	-2,159.7	1,364.7	1,286.6	17.466		
8,800.0	8,479.8	8,289.2	8,260.1	33.7	45.1	-66.01	-1,013.0	-2,159.6	1,365.2	1,286.5	17.350	ES, SF	
8,900.0	8,579.8	8,325.0	8,295.9	33.7	45.1	-65.99	-1,012.5	-2,159.6	1,367.2	1,288.5	17.379		
9,000.0	8,679.8	8,325.0	8,295.9	33.7	45.1	-65.99	-1,012.5	-2,159.6	1,376.0	1,297.6	17.560		
9,007.2	8,687.0	8,325.0	8,295.9	33.7	45.1	-65.99	-1,012.5	-2,159.6	1,376.9	1,298.6	17.580		

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 Fed 0993-16-12W - Slot 16-12W
<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 Fed 0993-16-12W	<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 16-8 - Wellbore #1 - Wellbore #1	Offset Site Error:	0.0 usft
Survey Program: 184-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)	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	66.62	810.9	1,875.9	2,043.7				
100.0	100.0	94.3	94.3	0.8	0.6	66.62	810.8	1,875.8	2,043.6	2,042.1	1,430.524		
196.4	196.4	193.6	193.6	1.3	1.3	-168.37	810.6	1,875.6	2,043.5	2,040.9	781.350		
200.0	200.0	197.1	197.1	1.3	1.3	-168.37	810.6	1,875.6	2,043.3	2,040.7	767.964	CC, ES	
300.0	300.0	294.5	294.5	2.3	2.1	-168.37	810.2	1,875.6	2,045.1	2,040.7	463.009		
400.0	399.8	398.2	398.2	3.5	2.7	-168.36	809.6	1,875.6	2,050.4	2,044.3	333.958		
500.0	499.4	505.1	505.1	3.8	3.2	-162.27	809.3	1,875.1	2,058.6	2,051.7	299.059		
600.0	598.7	607.7	607.6	4.4	3.6	-155.83	808.7	1,874.5	2,069.1	2,061.2	262.118		
700.0	697.5	703.4	703.4	5.1	4.0	-151.86	807.7	1,874.0	2,082.0	2,073.1	232.121		
800.0	795.7	795.7	795.7	5.8	4.4	-149.22	807.1	1,873.7	2,097.8	2,087.8	210.332		
900.0	893.3	891.7	891.7	6.5	4.8	-147.37	806.8	1,873.4	2,116.2	2,105.3	193.232		
1,000.0	990.0	986.9	986.9	7.1	5.2	-146.02	806.8	1,873.1	2,137.3	2,125.4	179.557		
1,100.0	1,085.8	1,083.4	1,083.4	7.7	5.4	-145.03	806.9	1,872.8	2,160.9	2,148.2	169.756		
1,200.0	1,180.6	1,190.3	1,190.3	8.3	5.6	-144.32	806.5	1,872.3	2,186.9	2,173.4	161.900		
1,300.0	1,274.2	1,318.5	1,318.4	8.9	5.9	-143.91	804.5	1,870.9	2,214.4	2,200.0	154.347		
1,400.0	1,367.1	1,448.5	1,448.3	9.4	6.2	-144.56	799.9	1,868.7	2,242.0	2,226.9	148.479		
1,500.0	1,460.1	1,584.8	1,584.4	9.7	6.5	-145.20	792.6	1,864.8	2,267.9	2,252.0	143.111		
1,600.0	1,553.1	1,689.3	1,688.6	10.1	6.8	-145.64	785.3	1,861.7	2,293.2	2,276.6	138.642		
1,700.0	1,646.1	1,829.3	1,827.9	10.5	7.3	-146.16	772.8	1,856.4	2,317.0	2,299.6	133.201		
1,800.0	1,739.0	1,961.2	1,959.0	10.9	7.7	-146.62	759.3	1,850.2	2,339.5	2,321.2	128.167		
1,900.0	1,832.0	2,084.0	2,080.7	11.3	8.2	-146.97	744.0	1,844.2	2,360.9	2,341.8	123.618		
2,000.0	1,925.0	2,200.2	2,195.6	11.8	8.6	-147.27	727.6	1,837.9	2,381.1	2,361.2	119.356		
2,100.0	2,017.9	2,324.8	2,318.5	12.2	9.1	-147.57	709.2	1,830.6	2,400.7	2,379.8	115.115		
2,200.0	2,110.9	2,408.0	2,400.6	12.6	9.4	-147.75	696.1	1,825.9	2,420.0	2,398.4	111.886		
2,300.0	2,203.9	2,496.7	2,488.0	13.1	9.7	-147.92	681.9	1,821.4	2,439.8	2,417.4	108.836		
2,400.0	2,296.9	2,593.5	2,583.5	13.6	10.1	-148.11	666.4	1,816.8	2,459.8	2,436.5	105.842		
2,500.0	2,389.8	2,687.0	2,675.7	14.0	10.4	-148.29	651.5	1,812.4	2,479.9	2,455.9	103.068		
2,600.0	2,482.8	2,774.8	2,762.3	14.5	10.8	-148.46	637.9	1,808.3	2,500.4	2,475.5	100.543		
2,700.0	2,575.8	2,869.3	2,855.6	15.0	11.1	-148.64	623.4	1,804.1	2,521.1	2,495.4	98.071		
2,800.0	2,668.7	2,967.0	2,952.0	15.5	11.5	-148.82	608.1	1,799.9	2,541.7	2,515.1	95.684		
2,900.0	2,761.7	3,061.0	3,044.8	16.0	11.9	-149.00	593.8	1,795.8	2,562.6	2,535.2	93.481		
3,000.0	2,854.7	3,153.1	3,135.8	16.5	12.3	-149.17	580.1	1,791.9	2,583.8	2,555.5	91.438		
3,100.0	2,947.7	3,246.4	3,228.0	17.1	12.6	-149.36	566.6	1,787.8	2,605.0	2,575.9	89.482		
3,200.0	3,040.6	3,350.1	3,330.5	17.6	13.0	-149.56	551.8	1,783.0	2,626.2	2,596.2	87.485		
3,300.0	3,133.6	3,432.0	3,411.5	18.2	13.4	-149.72	540.0	1,779.6	2,647.7	2,616.9	85.871		
3,400.0	3,226.6	3,526.6	3,505.1	18.8	13.8	-149.89	526.4	1,776.0	2,669.6	2,637.9	84.214		
3,500.0	3,319.5	3,617.0	3,594.5	19.4	14.1	-150.06	513.6	1,772.4	2,691.6	2,659.0	82.683		
3,600.0	3,412.5	3,700.8	3,677.5	20.0	14.5	-150.23	502.4	1,769.1	2,713.9	2,680.5	81.310		
3,700.0	3,505.5	3,800.4	3,776.2	20.6	14.8	-150.44	489.8	1,765.0	2,736.5	2,702.3	79.842		
3,800.0	3,598.5	3,900.2	3,875.1	21.2	15.3	-150.64	476.9	1,761.0	2,759.1	2,723.9	78.433		
3,900.0	3,691.4	4,000.6	3,974.5	21.9	15.7	-150.83	463.7	1,756.9	2,781.5	2,745.4	77.080		
4,000.0	3,784.4	4,108.9	4,081.7	22.5	16.1	-151.04	449.4	1,752.3	2,803.8	2,766.8	75.696		
4,100.0	3,877.4	4,221.5	4,193.2	23.1	16.6	-151.26	434.6	1,746.7	2,825.5	2,787.5	74.303		
4,200.0	3,970.3	4,318.3	4,289.0	23.8	17.0	-151.45	421.4	1,741.8	2,847.1	2,808.1	73.111		
4,300.0	4,063.3	4,394.8	4,364.6	24.4	17.3	-151.57	410.6	1,738.5	2,868.9	2,829.2	72.173		
4,400.0	4,156.3	4,472.9	4,442.1	25.0	17.6	-151.71	400.1	1,735.8	2,891.8	2,851.2	71.294		
4,500.0	4,249.3	4,576.0	4,544.1	25.7	18.0	-151.87	385.9	1,731.9	2,914.3	2,872.8	70.238		
4,600.0	4,342.2	4,643.2	4,610.7	26.3	18.3	-151.99	377.1	1,729.8	2,937.7	2,895.4	69.543		
4,700.0	4,435.2	4,764.9	4,731.2	27.0	18.8	-152.17	360.6	1,726.1	2,960.9	2,917.6	68.440		
4,800.0	4,528.2	4,857.7	4,823.0	27.6	19.2	-152.31	347.8	1,723.2	2,984.0	2,939.8	67.598		
4,900.0	4,621.1	4,960.0	4,924.4	28.2	19.6	-152.47	334.2	1,719.8	3,007.2	2,962.1	66.713		

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 Fed 0993-16-12W - Slot 16-12W
<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 Fed 0993-16-12W	<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 16-8 - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 184-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)			
5,000.0	4,714.1	5,064.1	5,027.6	28.9	20.0	-152.66	321.4	1,715.1	3,030.0	2,983.9	65.820		
5,100.0	4,807.1	5,144.4	5,107.3	29.5	20.4	-152.84	312.9	1,710.7	3,053.0	3,006.1	65.133		
5,200.0	4,900.4	5,193.0	5,155.6	30.1	20.6	-153.11	308.4	1,707.9	3,076.1	3,028.6	64.729		
5,300.0	4,994.9	5,238.1	5,200.6	30.7	20.7	-153.41	305.0	1,705.7	3,097.9	3,049.7	64.297		
5,400.0	5,090.4	5,275.9	5,238.2	31.2	20.9	-153.68	303.1	1,704.4	3,118.7	3,069.9	63.945		
5,500.0	5,186.9	5,388.6	5,350.8	31.7	21.4	-154.02	297.0	1,701.4	3,137.1	3,087.3	62.957		
5,600.0	5,284.3	5,479.4	5,441.4	32.1	22.1	-154.27	291.7	1,699.1	3,152.4	3,101.3	61.756		
5,700.0	5,382.4	5,572.1	5,533.9	32.5	22.8	-154.46	286.6	1,696.9	3,164.7	3,112.5	60.594		
5,800.0	5,481.1	5,665.0	5,626.7	32.8	23.5	-154.62	281.9	1,694.5	3,174.2	3,120.8	59.457		
5,900.0	5,580.4	5,758.2	5,719.7	33.0	24.2	-154.72	277.5	1,692.2	3,180.7	3,126.2	58.347		
6,000.0	5,679.9	5,867.0	5,828.4	33.2	25.0	-154.78	272.8	1,689.4	3,184.3	3,128.5	57.105		
6,100.0	5,779.8	5,929.8	5,891.2	33.3	25.4	-154.80	270.5	1,687.9	3,185.0	3,128.6	56.471		
6,200.0	5,879.8	6,005.1	5,966.4	33.4	25.8	-154.78	268.3	1,686.3	3,183.4	3,126.5	55.925		
6,300.0	5,979.8	6,080.5	6,041.7	33.4	26.2	54.76	266.8	1,685.0	3,180.8	3,123.5	55.483		
6,400.0	6,079.8	6,174.0	6,135.2	33.4	26.8	54.76	265.8	1,683.7	3,179.1	3,121.2	54.919		
6,500.0	6,179.8	6,263.3	6,224.6	33.4	27.1	54.76	265.3	1,682.5	3,177.5	3,119.3	54.560		
6,600.0	6,279.8	6,381.1	6,342.3	33.4	27.6	54.76	263.9	1,680.5	3,175.6	3,116.8	54.006		
6,700.0	6,379.8	6,456.0	6,417.2	33.4	27.9	54.76	262.8	1,679.1	3,173.3	3,114.2	53.740		
6,800.0	6,479.8	6,559.3	6,520.4	33.5	28.0	54.76	261.7	1,677.3	3,171.2	3,111.9	53.492		
6,900.0	6,579.8	6,635.0	6,596.1	33.5	28.2	54.75	261.7	1,676.2	3,170.0	3,110.6	53.390		
7,000.0	6,679.8	6,733.0	6,694.1	33.5	28.3	54.72	262.6	1,675.2	3,169.7	3,110.1	53.197		
7,100.0	6,779.8	6,833.9	6,795.1	33.5	28.4	54.69	264.0	1,673.8	3,169.4	3,109.6	53.006		
7,200.0	6,879.8	6,976.9	6,938.0	33.5	28.6	54.62	265.7	1,670.1	3,168.0	3,107.7	52.609		
7,300.0	6,979.8	7,114.6	7,075.5	33.5	28.9	54.55	266.7	1,664.8	3,165.2	3,104.5	52.097		
7,400.0	7,079.8	7,252.1	7,212.9	33.5	29.2	54.48	267.0	1,658.0	3,161.3	3,100.0	51.579		
7,500.0	7,179.8	7,348.5	7,309.2	33.5	29.5	54.43	266.6	1,653.2	3,157.0	3,095.3	51.175		
7,600.0	7,279.8	7,451.7	7,412.3	33.5	29.9	54.39	265.7	1,648.2	3,152.6	3,090.5	50.756		
7,700.0	7,379.8	7,542.7	7,503.2	33.5	30.2	54.36	264.6	1,644.0	3,148.1	3,085.7	50.432		
7,800.0	7,479.8	7,618.5	7,578.8	33.5	30.3	54.33	264.3	1,640.6	3,144.3	3,081.7	50.232		
7,900.0	7,579.8	7,694.2	7,654.5	33.6	30.5	54.29	265.0	1,637.3	3,141.3	3,078.5	50.048		
8,000.0	7,679.8	7,772.4	7,732.6	33.6	30.7	54.23	266.5	1,634.0	3,139.0	3,076.0	49.882	SF	
8,100.0	7,779.8	7,820.0	7,780.1	33.6	30.7	54.19	267.6	1,632.0	3,137.4	3,074.6	49.939		
8,109.4	7,789.1	7,820.0	7,780.1	33.6	30.7	54.19	267.6	1,632.0	3,137.4	3,074.6	49.963		
8,200.0	7,879.8	7,820.0	7,780.1	33.6	30.7	54.19	267.6	1,632.0	3,138.7	3,076.3	50.235		
8,300.0	7,979.8	7,820.0	7,780.1	33.6	30.7	54.19	267.6	1,632.0	3,143.2	3,081.1	50.624		
8,400.0	8,079.8	7,820.0	7,780.1	33.6	30.7	54.19	267.6	1,632.0	3,150.9	3,089.2	51.108		
8,500.0	8,179.8	7,820.0	7,780.1	33.6	30.7	54.19	267.6	1,632.0	3,161.6	3,100.5	51.685		
8,600.0	8,279.8	7,820.0	7,780.1	33.6	30.7	54.19	267.6	1,632.0	3,175.6	3,114.9	52.356		
8,700.0	8,379.8	7,820.0	7,780.1	33.6	30.7	54.19	267.6	1,632.0	3,192.5	3,132.4	53.120		
8,800.0	8,479.8	7,820.0	7,780.1	33.7	30.7	54.19	267.6	1,632.0	3,212.5	3,153.0	53.978		
8,900.0	8,579.8	7,820.0	7,780.1	33.7	30.7	54.19	267.6	1,632.0	3,235.5	3,176.6	54.927		
9,000.0	8,679.8	7,820.0	7,780.1	33.7	30.7	54.19	267.6	1,632.0	3,261.4	3,203.1	55.965		
9,007.2	8,687.0	7,820.0	7,780.1	33.7	30.7	54.19	267.6	1,632.0	3,263.4	3,205.1	56.044		

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 Fed 0993-16-12W - Slot 16-12W
<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 Fed 0993-16-12W	<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)			
0.0	0.0	0.0	0.0	0.0	0.0	133.95	-1,866.1	1,935.5	2,692.3				
100.0	100.0	0.0	0.0	0.8	0.0	133.95	-1,866.1	1,935.5	2,688.9	2,688.1	3,391.989		
139.3	139.3	0.0	0.0	1.0	0.0	-101.05	-1,866.1	1,935.5	2,688.6	2,687.6	2,691.595	CC	
200.0	200.0	56.4	56.4	1.3	0.3	-101.04	-1,866.2	1,935.5	2,688.7	2,687.0	1,646.214		
300.0	300.0	130.0	130.0	2.3	0.7	-101.05	-1,866.6	1,935.4	2,689.4	2,686.7	991.571	ES	
400.0	399.8	219.0	219.0	3.5	1.5	-101.08	-1,868.1	1,935.4	2,691.7	2,687.9	711.442		
500.0	499.4	295.9	295.8	3.8	2.0	-95.05	-1,870.7	1,935.3	2,695.3	2,690.9	621.561		
600.0	598.7	359.8	359.7	4.4	2.3	-88.69	-1,873.7	1,935.0	2,698.6	2,693.6	545.624		
700.0	697.5	424.4	424.2	5.1	2.6	-84.83	-1,877.6	1,935.2	2,702.0	2,696.5	488.894		
800.0	795.7	490.0	489.6	5.8	3.0	-82.31	-1,882.4	1,935.6	2,705.4	2,699.3	442.457		
900.0	893.3	582.0	581.2	6.5	3.4	-80.67	-1,890.6	1,935.8	2,708.4	2,701.6	397.021		
1,000.0	990.0	654.2	653.0	7.1	3.7	-79.47	-1,898.3	1,935.6	2,711.1	2,703.6	363.257		
1,100.0	1,085.8	733.5	731.7	7.7	4.1	-78.65	-1,907.8	1,935.1	2,713.3	2,705.1	332.546		
1,200.0	1,180.6	810.3	807.9	8.3	4.5	-78.09	-1,918.0	1,934.5	2,715.2	2,706.3	305.073		
1,300.0	1,274.2	884.8	881.5	8.9	4.8	-77.72	-1,929.0	1,933.7	2,716.8	2,707.1	280.296		
1,400.0	1,367.1	961.7	957.4	9.4	5.2	-78.09	-1,941.5	1,932.7	2,718.9	2,708.4	258.578		
1,500.0	1,460.1	1,070.0	1,064.0	9.7	5.7	-78.60	-1,960.2	1,930.4	2,721.2	2,709.8	237.770		
1,600.0	1,553.1	1,154.6	1,147.1	10.1	6.1	-78.97	-1,975.8	1,927.9	2,723.8	2,711.5	221.590		
1,700.0	1,646.1	1,231.0	1,222.0	10.5	6.4	-79.28	-1,991.0	1,925.4	2,727.1	2,714.0	207.658		
1,800.0	1,739.0	1,313.3	1,302.3	10.9	6.8	-79.59	-2,008.6	1,922.3	2,731.3	2,717.3	194.676		
1,900.0	1,832.0	1,396.8	1,383.5	11.3	7.2	-79.88	-2,027.6	1,919.0	2,736.2	2,721.2	183.168		
2,000.0	1,925.0	1,490.2	1,474.3	11.8	7.6	-80.20	-2,049.3	1,915.3	2,741.5	2,725.7	172.763		
2,100.0	2,017.9	1,583.3	1,564.9	12.2	8.0	-80.54	-2,070.5	1,912.2	2,747.1	2,730.3	163.314		
2,200.0	2,110.9	1,676.7	1,655.8	12.6	8.5	-80.86	-2,092.0	1,909.1	2,753.1	2,735.3	154.716		
2,300.0	2,203.9	1,779.4	1,755.7	13.1	8.9	-81.22	-2,115.6	1,905.6	2,759.0	2,740.1	146.628		
2,400.0	2,296.9	1,853.0	1,827.1	13.6	9.3	-81.47	-2,133.0	1,903.1	2,765.4	2,745.6	140.276		
2,500.0	2,389.8	1,934.9	1,906.3	14.0	9.7	-81.73	-2,153.5	1,900.1	2,772.6	2,751.9	134.118		
2,600.0	2,482.8	2,022.0	1,990.3	14.5	10.1	-81.98	-2,176.3	1,896.9	2,780.5	2,758.8	128.320		
2,700.0	2,575.8	2,105.4	2,070.6	15.0	10.5	-82.21	-2,198.6	1,894.0	2,788.9	2,766.2	123.129		
2,800.0	2,668.7	2,184.5	2,146.5	15.5	10.9	-82.41	-2,220.7	1,891.1	2,798.0	2,774.4	118.433		
2,900.0	2,761.7	2,274.1	2,232.1	16.0	11.3	-82.62	-2,246.9	1,887.7	2,807.8	2,783.1	113.803		
3,000.0	2,854.7	2,366.3	2,320.1	16.5	11.8	-82.81	-2,274.6	1,883.8	2,817.7	2,791.9	109.445		
3,100.0	2,947.7	2,454.7	2,404.0	17.1	12.2	-82.98	-2,301.9	1,879.8	2,828.0	2,801.2	105.496		
3,200.0	3,040.6	2,538.4	2,483.2	17.6	12.6	-83.11	-2,328.8	1,875.7	2,838.8	2,810.9	101.905		
3,300.0	3,133.6	2,615.6	2,555.8	18.2	13.0	-83.21	-2,354.8	1,871.9	2,850.3	2,821.4	98.689		
3,400.0	3,226.6	2,700.7	2,635.6	18.8	13.5	-83.31	-2,384.2	1,867.6	2,862.4	2,832.5	95.510		
3,500.0	3,319.5	2,788.8	2,717.9	19.4	13.9	-83.41	-2,415.0	1,863.4	2,875.0	2,843.9	92.492		
3,600.0	3,412.5	2,889.2	2,811.5	20.0	14.4	-83.50	-2,450.9	1,858.3	2,887.8	2,855.5	89.424		
3,700.0	3,505.5	2,994.2	2,909.5	20.6	14.9	-83.60	-2,488.3	1,852.7	2,900.3	2,866.8	86.473		
3,800.0	3,598.5	3,080.5	2,990.0	21.2	15.4	-83.67	-2,519.2	1,848.3	2,913.0	2,878.4	84.052		
3,900.0	3,691.4	3,166.8	3,070.4	21.9	15.8	-83.75	-2,550.2	1,844.2	2,926.2	2,890.4	81.782		
4,000.0	3,784.4	3,248.0	3,146.1	22.5	16.2	-83.82	-2,579.6	1,840.8	2,939.9	2,903.1	79.740		
4,100.0	3,877.4	3,330.7	3,279.2	23.1	16.9	-83.96	-2,630.6	1,834.2	2,953.2	2,914.7	76.901		
4,200.0	3,970.3	3,501.4	3,383.0	23.8	17.5	-84.08	-2,668.7	1,828.9	2,965.4	2,925.7	74.717		
4,300.0	4,063.3	3,577.0	3,454.0	24.4	17.9	-84.18	-2,694.3	1,825.7	2,977.9	2,937.2	73.118		
4,400.0	4,156.3	3,658.4	3,530.6	25.0	18.3	-84.30	-2,721.8	1,823.3	2,991.3	2,949.5	71.553		
4,500.0	4,249.3	3,758.4	3,624.7	25.7	18.8	-84.44	-2,755.6	1,820.5	3,004.9	2,961.8	69.858		
4,600.0	4,342.2	3,845.7	3,706.7	26.3	19.3	-84.56	-2,785.3	1,817.9	3,018.5	2,974.4	68.399		
4,700.0	4,435.2	3,936.9	3,792.2	27.0	19.7	-84.68	-2,816.8	1,815.5	3,032.7	2,987.4	66.979		
4,800.0	4,528.2	4,043.7	3,892.6	27.6	20.3	-84.82	-2,853.1	1,812.8	3,046.7	3,000.2	65.464		
4,900.0	4,621.1	4,142.8	3,985.8	28.2	20.8	-84.96	-2,886.9	1,810.2	3,060.7	3,012.9	64.106		

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 Fed 0993-16-12W - Slot 16-12W
<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 Fed 0993-16-12W	<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		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)			
5,000.0	4,714.1	4,269.4	4,104.9	28.9	21.4	-85.13	-2,929.5	1,806.7	3,074.3	3,025.2	62.555		
5,100.0	4,807.1	4,356.0	4,186.6	29.5	21.9	-85.26	-2,958.3	1,804.3	3,087.7	3,037.5	61.443		
5,200.0	4,900.4	4,439.2	4,265.2	30.1	22.3	-85.58	-2,985.6	1,802.7	3,101.7	3,050.4	60.455		
5,300.0	4,994.9	4,584.2	4,402.4	30.7	23.0	-85.98	-3,032.1	1,799.2	3,115.0	3,062.3	59.060		
5,400.0	5,090.4	4,700.9	4,513.4	31.2	23.6	-86.28	-3,067.9	1,796.5	3,128.0	3,074.1	58.025		
5,500.0	5,186.9	4,771.3	4,580.8	31.7	24.0	-86.56	-3,088.4	1,795.4	3,141.1	3,086.4	57.421		
5,600.0	5,284.3	4,828.3	4,635.1	32.1	24.3	-86.82	-3,105.7	1,795.0	3,155.7	3,100.3	57.016		
5,700.0	5,382.4	4,925.1	4,726.7	32.5	24.9	-86.97	-3,136.9	1,794.0	3,171.2	3,115.0	56.385		
5,800.0	5,481.1	5,042.1	4,837.3	32.8	25.5	-87.00	-3,175.3	1,791.6	3,186.4	3,129.2	55.674		
5,900.0	5,580.4	5,145.6	4,935.0	33.0	26.0	-86.99	-3,209.4	1,789.3	3,201.9	3,143.8	55.139		
6,000.0	5,679.9	5,256.5	5,039.8	33.2	26.6	-86.89	-3,245.6	1,786.3	3,217.0	3,158.1	54.616		
6,100.0	5,779.8	5,343.1	5,121.6	33.3	27.0	-86.83	-3,273.7	1,784.0	3,232.5	3,172.9	54.322		
6,200.0	5,879.8	5,433.7	5,207.4	33.4	27.5	-86.73	-3,302.9	1,782.1	3,248.6	3,188.5	54.083		
6,300.0	5,979.8	5,545.2	5,312.9	33.4	28.0	-86.73	-3,338.8	1,779.6	3,265.0	3,204.2	53.754		
6,400.0	6,079.8	5,634.6	5,397.5	33.4	28.5	-86.73	-3,367.5	1,777.3	3,281.2	3,220.0	53.575		
6,500.0	6,179.8	5,723.3	5,481.4	33.4	29.0	-86.73	-3,396.2	1,775.1	3,298.0	3,236.2	53.408		
6,600.0	6,279.8	5,833.8	5,585.8	33.4	29.5	-86.73	-3,432.3	1,772.0	3,314.9	3,252.5	53.112		
6,700.0	6,379.8	5,997.3	5,740.7	33.4	30.4	-86.73	-3,484.2	1,765.8	3,330.7	3,267.2	52.520		
6,800.0	6,479.8	6,163.6	5,899.7	33.5	31.2	-86.73	-3,532.6	1,758.9	3,345.0	3,280.6	51.972		
6,900.0	6,579.8	6,330.5	6,256.7	33.5	33.1	-86.73	-3,613.4	1,737.8	3,352.7	3,286.8	50.864		
7,000.0	6,679.8	6,663.3	6,388.0	33.5	33.8	-86.73	-3,631.5	1,732.3	3,357.9	3,291.6	50.643		
7,100.0	6,779.8	6,905.9	6,629.6	33.5	34.7	-86.73	-3,652.3	1,724.2	3,361.0	3,294.3	50.438		
7,200.0	6,879.8	7,034.3	6,757.8	33.5	35.1	-86.73	-3,655.9	1,720.8	3,360.5	3,293.8	50.382		
7,300.0	6,979.8	7,128.9	6,852.4	33.5	35.4	-86.73	-3,657.7	1,718.8	3,360.1	3,293.3	50.293		
7,400.0	7,079.8	7,227.0	6,950.5	33.5	35.7	-86.73	-3,659.3	1,717.2	3,359.8	3,292.9	50.215		
7,500.0	7,179.8	7,329.7	7,053.2	33.5	36.1	-86.73	-3,661.0	1,715.4	3,359.5	3,292.3	49.999		
7,600.0	7,279.8	7,436.3	7,159.8	33.5	36.6	-86.73	-3,663.1	1,713.1	3,359.0	3,291.5	49.782		
7,700.0	7,379.8	7,543.0	7,266.3	33.5	37.1	-86.73	-3,665.4	1,710.3	3,358.3	3,290.5	49.567		
7,800.0	7,479.8	7,657.2	7,380.5	33.5	37.5	-86.73	-3,668.0	1,706.8	3,357.4	3,289.3	49.360		
7,900.0	7,579.8	7,782.0	7,505.2	33.6	38.0	-86.73	-3,669.8	1,702.8	3,355.8	3,287.5	49.157		
8,000.0	7,679.8	7,906.8	7,630.0	33.6	38.5	-86.73	-3,670.4	1,698.7	3,353.5	3,285.0	48.950		
8,100.0	7,779.8	8,031.1	7,754.2	33.6	38.8	-86.73	-3,669.7	1,694.4	3,350.4	3,281.8	48.809		
8,200.0	7,879.8	8,154.9	7,877.9	33.6	39.0	-86.73	-3,667.6	1,690.0	3,346.6	3,277.9	48.701		
8,300.0	7,979.8	8,278.7	8,001.6	33.6	39.2	-86.73	-3,664.1	1,685.7	3,342.1	3,273.4	48.586		
8,400.0	8,079.8	8,367.5	8,090.3	33.6	39.4	-86.73	-3,661.4	1,682.6	3,337.5	3,268.6	48.443		
8,500.0	8,179.8	8,458.8	8,181.5	33.6	39.5	-86.73	-3,658.9	1,679.5	3,333.1	3,264.1	48.308		
8,600.0	8,279.8	8,550.2	8,272.8	33.6	39.6	-86.73	-3,656.7	1,676.4	3,329.0	3,259.9	48.178		
8,700.0	8,379.8	8,646.8	8,369.4	33.6	39.7	-86.73	-3,654.7	1,673.2	3,325.1	3,256.0	48.127		
8,800.0	8,479.8	8,660.0	8,382.5	33.7	39.7	-86.73	-3,654.4	1,672.7	3,322.3	3,253.1	47.977		
8,842.7	8,522.5	8,660.0	8,382.5	33.7	39.7	-86.73	-3,654.4	1,672.7	3,322.1	3,252.7	47.924		
8,900.0	8,579.8	8,660.0	8,382.5	33.7	39.7	-86.73	-3,654.4	1,672.7	3,322.5	3,253.1	47.876		
9,000.0	8,679.8	8,660.0	8,382.5	33.7	39.7	-86.73	-3,654.4	1,672.7	3,325.8	3,256.3	47.848	SF	
9,007.2	8,687.0	8,660.0	8,382.5	33.7	39.7	-86.73	-3,654.4	1,672.7	3,326.1	3,256.6	47.849		

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 Fed 0993-16-12W - Slot 16-12W
<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 Fed 0993-16-12W	<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	5.13	1,251.5	112.4	1,256.6				
100.0	100.0	99.2	99.2	0.8	0.6	5.13	1,251.6	112.3	1,256.6	1,255.2	901.156		
200.0	200.0	198.2	198.2	1.3	1.3	130.12	1,251.8	112.1	1,256.8	1,254.2	473.898		
300.0	300.0	298.5	298.5	2.3	2.3	130.14	1,252.1	111.6	1,258.4	1,254.0	283.602	ES	
400.0	399.8	397.2	397.2	3.5	3.1	130.24	1,252.3	110.9	1,262.2	1,256.3	212.291		
500.0	499.4	494.6	494.6	3.8	3.8	136.49	1,252.8	109.6	1,268.7	1,261.9	186.514		
600.0	598.7	589.7	589.6	4.4	4.3	143.10	1,253.6	107.9	1,278.6	1,270.7	162.932		
700.0	697.5	683.3	683.3	5.1	4.8	147.25	1,254.7	106.3	1,292.3	1,283.3	143.764		
800.0	795.7	786.3	786.3	5.8	5.1	150.17	1,255.9	104.8	1,309.4	1,299.4	131.869		
900.0	893.3	897.4	897.3	6.5	5.3	152.46	1,256.3	104.7	1,329.1	1,318.3	123.560		
1,000.0	990.0	1,002.0	1,001.8	7.1	5.4	154.37	1,255.4	107.0	1,351.3	1,339.7	116.569		
1,100.0	1,085.8	1,097.5	1,097.4	7.7	5.5	155.98	1,254.2	110.5	1,376.7	1,364.4	111.507		
1,200.0	1,180.6	1,194.0	1,193.7	8.3	5.5	157.40	1,252.7	114.6	1,405.5	1,392.4	107.318		
1,300.0	1,274.2	1,287.2	1,286.8	8.9	5.6	158.66	1,251.2	119.0	1,437.6	1,423.7	103.860		
1,400.0	1,367.1	1,374.0	1,373.5	9.4	5.7	159.28	1,250.1	122.1	1,471.7	1,457.3	102.136		
1,500.0	1,460.1	1,455.3	1,454.8	9.7	5.9	159.80	1,249.7	124.3	1,506.4	1,491.5	101.128		
1,600.0	1,553.1	1,533.0	1,532.5	10.1	6.0	160.27	1,250.3	126.5	1,542.5	1,527.1	100.079		
1,700.0	1,646.1	1,593.0	1,592.4	10.5	6.0	160.63	1,251.6	128.5	1,580.0	1,564.1	99.868		
1,800.0	1,739.0	1,647.3	1,646.7	10.9	6.0	160.93	1,253.8	130.2	1,619.4	1,603.1	99.811		
1,900.0	1,832.0	1,699.4	1,698.6	11.3	6.1	161.22	1,257.0	132.3	1,660.9	1,644.2	99.892		
2,000.0	1,925.0	1,752.0	1,751.0	11.8	6.1	161.51	1,261.5	134.6	1,704.6	1,687.5	100.048		
2,100.0	2,017.9	1,795.8	1,794.4	12.2	6.2	161.72	1,266.3	136.4	1,750.4	1,733.0	100.495		
2,200.0	2,110.9	1,848.0	1,846.1	12.6	6.3	161.96	1,273.4	138.4	1,798.4	1,780.6	100.832		
2,300.0	2,203.9	1,912.0	1,909.4	13.1	6.4	162.21	1,283.2	140.4	1,848.0	1,829.6	100.959		
2,400.0	2,296.9	1,961.1	1,957.7	13.6	6.5	162.38	1,291.5	141.8	1,898.7	1,880.0	101.486		
2,500.0	2,389.8	2,008.0	2,003.8	14.0	6.5	162.53	1,300.4	142.9	1,951.2	1,932.1	102.097		
2,600.0	2,482.8	2,038.5	2,033.5	14.5	6.8	162.61	1,307.0	143.4	2,005.7	1,986.1	102.229		
2,700.0	2,575.8	2,070.9	2,065.0	15.0	7.1	162.67	1,314.8	143.7	2,062.3	2,042.2	102.296		
2,800.0	2,668.7	2,104.0	2,096.9	15.5	7.4	162.73	1,323.6	143.9	2,120.9	2,100.2	102.297		
2,900.0	2,761.7	2,139.4	2,130.8	16.0	7.9	162.78	1,333.9	144.0	2,181.3	2,159.8	101.765		
3,000.0	2,854.7	2,200.0	2,188.3	16.5	8.6	162.84	1,353.0	144.0	2,243.4	2,220.8	99.282		
3,100.0	2,947.7	2,200.0	2,188.3	17.1	8.6	162.84	1,353.0	144.0	2,306.5	2,283.8	101.800		
3,200.0	3,040.6	2,248.7	2,234.1	17.6	9.0	162.88	1,369.6	144.1	2,371.1	2,347.8	101.681		
3,300.0	3,133.6	2,296.0	2,278.2	18.2	9.3	162.91	1,386.7	144.4	2,437.1	2,413.1	101.693		
3,400.0	3,226.6	2,328.0	2,307.8	18.8	9.4	162.93	1,398.7	144.7	2,504.1	2,479.9	103.239		
3,500.0	3,319.5	2,360.0	2,337.3	19.4	9.5	162.95	1,411.1	145.1	2,572.3	2,547.8	104.850		
3,600.0	3,412.5	2,391.0	2,365.7	20.0	9.6	162.97	1,423.6	145.7	2,641.6	2,616.8	106.499		
3,700.0	3,505.5	2,424.0	2,395.7	20.6	9.7	163.00	1,437.2	146.8	2,712.1	2,687.0	108.084		
3,800.0	3,598.5	2,471.5	2,438.7	21.2	9.8	163.07	1,457.1	149.0	2,783.4	2,757.9	109.147		
3,900.0	3,691.4	2,553.3	2,513.0	21.9	10.0	163.19	1,491.2	153.4	2,854.6	2,828.4	108.910		
4,000.0	3,784.4	2,634.1	2,586.4	22.5	10.2	163.30	1,524.6	157.7	2,925.7	2,898.8	108.647		
4,100.0	3,877.4	2,685.5	2,633.1	23.1	10.4	163.37	1,545.8	160.4	2,996.7	2,969.3	109.365		
4,200.0	3,970.3	2,745.5	2,687.6	23.8	10.6	163.44	1,571.1	163.6	3,068.2	3,040.3	109.716		
4,300.0	4,063.3	2,893.4	2,822.3	24.4	11.1	163.61	1,631.7	171.2	3,139.1	3,109.7	106.781		
4,400.0	4,156.3	2,978.3	2,900.1	25.0	11.5	163.70	1,665.4	174.8	3,208.7	3,178.4	106.016		
4,500.0	4,249.3	3,061.9	2,976.8	25.7	11.8	163.76	1,698.4	177.9	3,278.0	3,246.9	105.294		
4,600.0	4,342.2	3,108.7	3,019.7	26.3	12.0	163.80	1,717.0	179.5	3,347.5	3,315.9	105.798		
4,700.0	4,435.2	3,167.0	3,072.9	27.0	12.3	163.84	1,740.6	181.8	3,417.7	3,385.4	105.921		
4,800.0	4,528.2	3,201.6	3,104.5	27.6	12.4	163.87	1,754.8	183.5	3,488.2	3,455.6	106.833		
4,900.0	4,621.1	3,263.0	3,160.3	28.2	12.7	163.94	1,780.0	187.2	3,559.2	3,525.9	106.863		
5,000.0	4,714.1	3,359.0	3,248.0	28.9	13.1	164.05	1,818.6	193.3	3,629.5	3,595.2	105.830		

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 Fed 0993-16-12W - Slot 16-12W
<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 Fed 0993-16-12W	<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		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	4,807.1	3,419.0	3,302.8	29.5	13.4	164.12	1,842.7	197.0	3,699.9	3,664.9	105.880		
5,200.0	4,900.4	3,572.2	3,443.1	30.1	14.1	164.66	1,903.4	207.3	3,769.5	3,732.9	102.981		
5,300.0	4,994.9	3,614.9	3,482.4	30.7	14.3	165.16	1,920.0	210.1	3,836.0	3,798.8	103.274		
5,400.0	5,090.4	3,663.0	3,526.5	31.2	14.6	165.61	1,939.1	213.3	3,900.4	3,862.7	103.369		
5,500.0	5,186.9	3,725.9	3,583.9	31.7	14.9	166.01	1,964.3	217.3	3,962.7	3,924.3	103.089		
5,600.0	5,284.3	3,803.3	3,654.5	32.1	15.2	166.37	1,995.6	222.1	4,022.5	3,983.3	102.422		
5,700.0	5,382.4	3,887.1	3,731.0	32.5	15.6	166.68	2,029.4	227.8	4,079.6	4,039.4	101.593		
5,800.0	5,481.1	3,954.9	3,792.8	32.8	16.0	166.95	2,056.7	232.3	4,133.8	4,093.0	101.165		
5,900.0	5,580.4	4,002.8	3,836.4	33.0	16.2	167.20	2,076.5	235.4	4,185.9	4,144.5	101.233		
6,000.0	5,679.9	4,159.2	3,978.8	33.2	17.2	167.34	2,140.6	244.6	4,234.7	4,191.7	98.547		
6,100.0	5,779.8	4,230.4	4,043.6	33.3	17.6	167.49	2,169.6	248.0	4,280.0	4,236.3	98.079		
6,200.0	5,879.8	4,315.0	4,120.9	33.4	18.1	167.61	2,203.9	251.9	4,322.0	4,277.8	97.778		
6,300.0	5,979.8	4,380.8	4,180.9	33.4	18.6	17.09	2,230.8	255.3	4,362.8	4,318.3	98.041		
6,400.0	6,079.8	4,574.0	4,357.3	33.4	19.8	16.91	2,308.8	266.0	4,403.3	4,357.2	95.536		
6,500.0	6,179.8	4,812.5	4,578.1	33.4	21.2	16.71	2,397.9	278.6	4,440.2	4,392.2	92.425		
6,600.0	6,279.8	4,889.0	4,649.2	33.4	21.7	16.66	2,425.8	282.7	4,476.7	4,428.2	92.474		
6,700.0	6,379.8	4,889.0	4,649.2	33.4	21.7	16.66	2,425.8	282.7	4,514.1	4,466.0	93.959		
6,800.0	6,479.8	4,948.5	4,704.2	33.5	22.1	16.61	2,448.4	285.8	4,552.3	4,504.0	94.293		
6,900.0	6,579.8	4,985.0	4,737.6	33.5	22.3	16.58	2,462.9	287.9	4,591.9	4,543.6	95.107		
7,000.0	6,679.8	5,056.8	4,803.2	33.5	22.8	16.52	2,491.9	292.0	4,632.3	4,583.7	95.213		
7,100.0	6,779.8	7,073.0	6,754.1	33.5	30.3	15.64	2,918.6	343.4	4,659.1	4,596.7	74.623		
7,200.0	6,879.8	7,123.0	6,804.1	33.5	30.4	15.63	2,919.2	343.2	4,660.2	4,597.7	74.523		
7,300.0	6,979.8	7,187.0	6,868.1	33.5	30.5	15.63	2,920.7	343.6	4,662.4	4,599.8	74.369		
7,400.0	7,079.8	7,226.6	6,907.7	33.5	30.7	15.63	2,922.0	344.0	4,665.7	4,602.8	74.289		
7,500.0	7,179.8	7,726.6	7,406.9	33.5	31.1	15.55	2,920.3	336.8	4,664.4	4,601.2	73.802		
7,600.0	7,279.8	7,764.0	7,444.3	33.5	31.0	15.54	2,919.2	335.4	4,660.3	4,597.1	73.740		
7,700.0	7,379.8	7,797.3	7,477.6	33.5	31.0	15.53	2,918.6	334.3	4,657.6	4,594.4	73.676		
7,800.0	7,479.8	7,859.0	7,539.2	33.5	31.0	15.50	2,918.3	332.2	4,656.1	4,592.9	73.665		
7,900.0	7,579.8	8,105.0	7,785.0	33.6	31.3	15.40	2,915.4	322.2	4,654.8	4,591.7	73.843		
8,000.0	7,679.8	8,196.0	7,875.9	33.6	31.2	15.37	2,912.4	319.3	4,650.7	4,587.8	73.968		
8,100.0	7,779.8	8,279.7	7,959.5	33.6	31.2	15.35	2,909.5	316.4	4,646.5	4,583.7	74.083		
8,200.0	7,879.8	8,337.3	8,017.0	33.6	31.2	15.34	2,907.7	315.6	4,643.1	4,580.4	74.138		
8,300.0	7,979.8	8,432.0	8,111.7	33.6	31.1	15.35	2,904.7	315.1	4,639.9	4,577.4	74.311		
8,400.0	8,079.8	8,490.5	8,170.1	33.6	31.1	15.35	2,903.2	314.6	4,637.3	4,574.9	74.366		
8,500.0	8,179.8	8,527.0	8,206.7	33.6	31.1	15.34	2,902.7	314.3	4,636.0	4,573.7	74.397		
8,561.8	8,241.6	8,557.1	8,236.8	33.6	31.1	15.34	2,902.6	314.2	4,635.8	4,573.5	74.362		
8,600.0	8,279.8	8,571.5	8,251.2	33.6	31.1	15.34	2,902.7	314.2	4,635.9	4,573.6	74.350		
8,700.0	8,379.8	8,622.0	8,301.7	33.6	31.2	15.34	2,903.4	314.3	4,637.3	4,574.9	74.326		
8,800.0	8,479.8	8,677.3	8,356.9	33.7	31.3	15.34	2,904.8	314.6	4,639.7	4,577.1	74.182		
8,900.0	8,579.8	8,763.4	8,443.0	33.7	31.4	15.34	2,907.2	315.1	4,642.5	4,579.7	73.931		
9,000.0	8,679.8	8,859.5	8,539.0	33.7	31.5	15.34	2,910.1	315.9	4,645.6	4,582.5	73.642		
9,007.2	8,687.0	8,867.5	8,547.1	33.7	31.5	15.34	2,910.3	315.9	4,645.8	4,582.7	73.617 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 Fed 0993-16-12W - Slot 16-12W
<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 Fed 0993-16-12W	<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)	Between Ellipses (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	4.66	1,240.6	101.1	1,244.7			
100.0	100.0	99.0	99.0	0.8	0.6	4.66	1,240.6	101.1	1,244.7	1,243.4	926.220	
200.0	200.0	198.8	198.8	1.3	1.2	129.67	1,240.7	101.2	1,244.9	1,242.4	498.827	ES
300.0	300.0	294.6	294.6	2.3	1.7	129.70	1,241.0	101.0	1,246.4	1,242.6	328.707	
400.0	399.8	386.0	386.0	3.5	2.2	129.73	1,241.8	99.3	1,250.7	1,245.7	249.023	
500.0	499.4	477.7	477.6	3.8	2.6	135.85	1,243.4	95.9	1,258.2	1,252.6	225.503	
600.0	598.7	572.8	572.6	4.4	3.0	142.30	1,245.7	90.8	1,269.3	1,263.0	198.938	
700.0	697.5	666.4	665.8	5.1	3.5	146.20	1,248.4	83.8	1,284.1	1,276.8	175.684	
800.0	795.7	754.5	753.4	5.8	4.0	148.74	1,251.7	75.3	1,302.8	1,294.6	158.791	
900.0	893.3	844.5	842.8	6.5	4.5	150.45	1,255.8	64.9	1,325.4	1,316.3	146.145	
1,000.0	990.0	945.1	942.2	7.1	5.1	151.58	1,260.8	50.4	1,351.3	1,341.3	135.291	
1,100.0	1,085.8	1,032.6	1,028.3	7.7	5.5	152.34	1,265.4	35.8	1,380.5	1,369.7	127.279	
1,200.0	1,180.6	1,117.2	1,111.3	8.3	5.9	152.83	1,270.5	20.3	1,413.5	1,401.9	120.970	
1,300.0	1,274.2	1,198.1	1,190.6	8.9	6.2	153.14	1,276.1	4.8	1,450.3	1,437.8	115.916	
1,400.0	1,367.1	1,284.7	1,275.3	9.4	6.5	153.03	1,282.7	-11.8	1,489.4	1,476.2	112.613	
1,500.0	1,460.1	1,376.1	1,364.7	9.7	6.9	152.92	1,289.7	-29.2	1,528.5	1,514.6	109.915	
1,600.0	1,553.1	1,459.7	1,446.6	10.1	7.2	152.83	1,296.3	-45.1	1,567.8	1,553.3	107.589	
1,700.0	1,646.1	1,543.9	1,529.0	10.5	7.5	152.75	1,303.5	-60.8	1,607.8	1,592.6	105.378	
1,800.0	1,739.0	1,654.8	1,637.7	10.9	8.0	152.68	1,312.6	-80.5	1,647.6	1,631.5	102.357	
1,900.0	1,832.0	1,787.2	1,767.6	11.3	8.5	152.60	1,321.0	-104.7	1,685.5	1,668.4	98.570	
2,000.0	1,925.0	1,865.6	1,844.6	11.8	8.9	152.56	1,325.2	-118.8	1,722.6	1,704.8	96.749	
2,100.0	2,017.9	1,952.7	1,930.3	12.2	9.2	152.54	1,330.5	-133.6	1,760.5	1,741.9	94.969	
2,200.0	2,110.9	2,091.2	2,066.5	12.6	9.8	152.52	1,337.4	-157.3	1,797.3	1,777.7	91.753	
2,300.0	2,203.9	2,171.0	2,144.9	13.1	10.1	152.49	1,340.9	-171.8	1,833.3	1,813.0	90.108	
2,400.0	2,296.9	2,237.4	2,210.1	13.6	10.4	152.45	1,344.4	-183.8	1,870.3	1,849.3	89.100	
2,500.0	2,389.8	2,356.7	2,327.4	14.0	10.9	152.41	1,351.0	-205.1	1,907.7	1,885.7	86.958	
2,600.0	2,482.8	2,449.5	2,418.5	14.5	11.3	152.36	1,355.2	-222.1	1,943.9	1,921.1	85.440	
2,700.0	2,575.8	2,528.3	2,496.0	15.0	11.7	152.34	1,359.0	-236.2	1,980.5	1,957.0	84.391	
2,800.0	2,668.7	2,630.6	2,596.5	15.5	12.1	152.32	1,364.2	-254.0	2,017.3	1,993.0	82.989	
2,900.0	2,761.7	2,756.5	2,720.0	16.0	12.7	152.25	1,369.0	-277.6	2,052.9	2,027.6	81.125	
3,000.0	2,854.7	2,843.2	2,805.2	16.5	13.1	152.20	1,371.9	-294.1	2,088.0	2,061.9	80.026	
3,100.0	2,947.7	2,919.0	2,879.7	17.1	13.4	152.17	1,375.0	-307.7	2,123.9	2,097.1	79.236	
3,200.0	3,040.6	3,031.9	2,990.6	17.6	13.9	152.14	1,379.4	-328.0	2,159.7	2,132.0	77.925	
3,300.0	3,133.6	3,121.1	3,078.2	18.2	14.3	152.11	1,382.4	-344.3	2,194.8	2,166.3	76.990	
3,400.0	3,226.6	3,196.0	3,151.9	18.8	14.6	152.09	1,385.9	-357.8	2,231.1	2,201.9	76.280	
3,500.0	3,319.5	3,274.2	3,228.6	19.4	15.0	152.06	1,390.1	-372.0	2,268.1	2,238.1	75.566	
3,600.0	3,412.5	3,340.3	3,293.5	20.0	15.2	152.04	1,393.7	-384.1	2,305.4	2,274.7	75.083	
3,700.0	3,505.5	3,399.6	3,351.8	20.6	15.5	152.03	1,397.8	-394.5	2,344.0	2,312.6	74.761	
3,800.0	3,598.5	3,476.0	3,426.8	21.2	15.9	152.03	1,404.3	-407.1	2,383.9	2,351.7	74.188	
3,900.0	3,691.4	3,565.3	3,514.6	21.9	16.3	152.04	1,412.2	-421.8	2,424.2	2,391.2	73.543	
4,000.0	3,784.4	3,672.1	3,619.4	22.5	16.7	152.03	1,420.8	-440.3	2,463.8	2,430.0	72.698	
4,100.0	3,877.4	3,771.4	3,716.8	23.1	17.2	152.00	1,428.3	-457.8	2,503.0	2,468.2	71.976	
4,200.0	3,970.3	3,858.0	3,801.7	23.8	17.6	151.97	1,435.1	-473.6	2,542.3	2,506.7	71.436	
4,300.0	4,063.3	3,990.0	3,930.9	24.4	18.2	151.89	1,443.4	-499.3	2,579.9	2,543.1	70.150	
4,400.0	4,156.3	4,057.3	3,996.8	25.0	18.5	151.85	1,448.0	-512.5	2,618.2	2,580.7	69.818	
4,500.0	4,249.3	4,137.6	4,075.3	25.7	18.9	151.80	1,454.0	-528.1	2,657.2	2,619.0	69.396	
4,600.0	4,342.2	4,232.5	4,168.1	26.3	19.3	151.74	1,461.3	-547.0	2,696.3	2,657.1	68.819	
4,700.0	4,435.2	4,313.6	4,247.2	27.0	19.7	151.69	1,467.6	-563.0	2,735.6	2,695.6	68.435	
4,800.0	4,528.2	4,429.2	4,360.4	27.6	20.2	151.63	1,476.2	-585.4	2,774.5	2,733.5	67.668	
4,900.0	4,621.1	4,554.1	4,482.8	28.2	20.8	151.58	1,484.8	-608.7	2,813.1	2,771.0	66.857	
5,000.0	4,714.1	4,669.6	4,596.3	28.9	21.3	151.58	1,490.8	-628.9	2,850.0	2,806.9	66.191	

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 Fed 0993-16-12W - Slot 16-12W
<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 Fed 0993-16-12W	<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)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning	
5,100.0	4,807.1	4,746.8	4,672.3	29.5	21.7	151.58	1,494.9	-642.2	2,887.0	2,843.2	65.921		
5,200.0	4,900.4	4,831.4	4,755.4	30.1	22.1	151.83	1,499.8	-657.3	2,923.8	2,879.2	65.588		
5,300.0	4,994.9	4,913.7	4,836.2	30.7	22.4	152.12	1,504.8	-672.2	2,958.0	2,912.6	65.178		
5,400.0	5,090.4	4,996.3	4,917.3	31.2	22.8	152.36	1,510.2	-686.7	2,989.8	2,943.6	64.732		
5,500.0	5,186.9	5,093.2	5,012.5	31.7	23.3	152.53	1,516.7	-703.5	3,018.8	2,971.7	64.142		
5,600.0	5,284.3	5,185.1	5,102.9	32.1	23.7	152.66	1,522.8	-719.1	3,044.7	2,996.8	63.588		
5,700.0	5,382.4	5,266.7	5,183.1	32.5	24.1	152.75	1,528.6	-732.6	3,068.1	3,019.5	63.129		
5,800.0	5,481.1	5,362.1	5,277.1	32.8	24.5	152.79	1,535.5	-747.2	3,088.8	3,039.4	62.554		
5,900.0	5,580.4	5,468.3	5,381.9	33.0	25.0	152.76	1,543.1	-763.1	3,106.3	3,056.1	61.889		
6,000.0	5,679.9	5,570.3	5,482.3	33.2	25.4	152.66	1,550.2	-779.7	3,120.6	3,069.7	61.241		
6,100.0	5,779.8	5,731.9	5,641.2	33.3	26.2	152.31	1,560.0	-807.3	3,131.0	3,079.0	60.136		
6,200.0	5,879.8	5,844.0	5,751.6	33.4	26.7	152.04	1,565.2	-826.1	3,137.0	3,084.4	59.614		
6,300.0	5,979.8	5,939.0	5,845.1	33.4	27.1	1.27	1,569.5	-842.6	3,141.1	3,088.1	59.274		
6,400.0	6,079.8	6,033.0	5,937.6	33.4	27.5	0.99	1,573.9	-858.1	3,145.6	3,092.3	58.996		
6,500.0	6,179.8	6,145.9	6,049.3	33.4	28.0	0.70	1,579.1	-873.8	3,150.0	3,096.3	58.630		
6,600.0	6,279.8	6,241.3	6,144.0	33.4	28.5	0.51	1,583.1	-884.1	3,154.2	3,100.2	58.413		
6,700.0	6,379.8	6,461.8	6,363.8	33.4	29.4	0.23	1,589.8	-899.9	3,157.9	3,103.1	57.653		
6,800.0	6,479.8	6,541.7	6,443.7	33.5	29.6	0.17	1,590.7	-902.9	3,158.9	3,104.0	57.548		
6,900.0	6,579.8	6,632.0	6,533.9	33.5	30.0	0.11	1,591.9	-906.1	3,160.2	3,105.1	57.378		
7,000.0	6,679.8	6,724.3	6,626.2	33.5	30.3	0.06	1,593.4	-909.0	3,161.8	3,106.5	57.196		
7,100.0	6,779.8	6,849.7	6,751.5	33.5	30.9	0.00	1,595.0	-912.5	3,163.1	3,107.3	56.698		
7,200.0	6,879.8	6,975.1	6,876.9	33.5	31.5	-0.05	1,595.6	-915.3	3,163.6	3,107.3	56.199		
7,300.0	6,979.8	7,100.6	7,002.4	33.5	32.0	-0.09	1,595.2	-917.6	3,163.3	3,106.5	55.698		
7,400.0	7,079.8	7,180.8	7,082.5	33.5	32.7	-0.12	1,595.0	-919.1	3,163.0	3,105.6	55.038		
7,423.9	7,103.6	7,201.9	7,103.6	33.5	32.9	-0.13	1,595.0	-919.5	3,163.0	3,105.4	54.891		
7,500.0	7,179.8	7,269.2	7,170.9	33.5	33.4	-0.16	1,595.1	-920.9	3,163.1	3,105.0	54.429		
7,600.0	7,279.8	7,357.5	7,259.2	33.5	34.0	-0.19	1,595.5	-923.0	3,163.6	3,104.8	53.840		
7,700.0	7,379.8	7,445.9	7,347.5	33.5	34.7	-0.23	1,596.3	-925.3	3,164.4	3,105.0	53.270		
7,800.0	7,479.8	7,534.2	7,435.8	33.5	35.4	-0.28	1,597.3	-927.8	3,165.6	3,105.6	52.719		
7,900.0	7,579.8	7,625.2	7,526.7	33.6	36.1	-0.33	1,598.7	-930.6	3,167.2	3,106.4	52.136		
8,000.0	7,679.8	7,719.8	7,621.3	33.6	36.8	-0.38	1,600.4	-933.1	3,169.0	3,107.4	51.505		
8,100.0	7,779.8	7,814.3	7,715.8	33.6	37.5	-0.41	1,602.2	-935.3	3,170.9	3,108.6	50.893		
8,200.0	7,879.8	7,909.0	7,810.4	33.6	38.2	-0.44	1,604.1	-937.0	3,173.0	3,109.9	50.299		
8,300.0	7,979.8	8,003.6	7,905.0	33.6	39.0	-0.47	1,606.3	-938.3	3,175.3	3,111.4	49.722		
8,400.0	8,079.8	8,100.9	8,002.2	33.6	39.8	-0.49	1,608.6	-939.3	3,177.7	3,112.9	49.085		
8,500.0	8,179.8	8,203.3	8,104.6	33.6	40.7	-0.50	1,611.1	-940.3	3,180.1	3,114.3	48.317		
8,600.0	8,279.8	8,305.8	8,207.1	33.6	41.7	-0.52	1,613.5	-941.5	3,182.4	3,115.5	47.573		
8,700.0	8,379.8	8,408.2	8,309.5	33.6	42.7	-0.55	1,615.7	-942.8	3,184.7	3,116.7	46.851		
8,800.0	8,479.8	8,510.7	8,411.9	33.7	43.6	-0.57	1,618.0	-944.3	3,186.8	3,117.8	46.150		
8,900.0	8,579.8	8,613.2	8,514.4	33.7	44.6	-0.60	1,620.1	-945.9	3,188.9	3,118.8	45.469		
9,000.0	8,679.8	8,650.0	8,551.2	33.7	44.9	-0.61	1,620.8	-946.5	3,191.6	3,121.2	45.339 SF		
9,007.2	8,687.0	8,650.0	8,551.2	33.7	44.9	-0.61	1,620.8	-946.5	3,191.9	3,121.5	45.353		

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 Fed 0993-16-12W - Slot 16-12W
<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 Fed 0993-16-12W	<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	
0.0	0.0	0.0	0.0	0.0	0.0	36.64	64.7	48.1	80.6				
100.0	100.0	100.0	100.0	0.8	0.8	36.64	64.7	48.1	80.6	79.0	50.900	CC	
107.4	107.4	107.4	107.4	0.8	0.8	161.64	64.7	48.1	80.6	79.0	48.304		
200.0	200.0	200.0	200.0	1.3	1.4	161.65	64.7	48.1	80.7	77.9	29.510	ES	
300.0	300.0	297.6	297.5	2.3	2.3	161.47	66.4	48.3	84.1	79.6	18.790		
400.0	399.8	394.5	394.4	3.5	3.4	160.88	71.3	48.7	93.7	87.2	14.353	SF	
500.0	499.4	490.3	489.8	3.8	4.3	166.08	79.3	49.4	109.5	102.0	14.469		
600.0	598.7	584.3	583.2	4.4	5.0	171.00	90.3	50.4	131.5	122.7	14.905		
700.0	697.5	676.9	674.7	5.1	5.7	173.07	104.1	51.2	159.5	149.4	15.718		
800.0	795.7	767.0	763.4	5.8	6.3	173.65	120.3	51.3	193.1	181.7	17.007		
900.0	893.3	854.1	848.6	6.5	6.8	173.52	138.4	50.6	232.2	219.7	18.627		
1,000.0	990.0	937.8	929.8	7.1	7.3	173.07	158.2	49.2	276.6	263.1	20.500		
1,100.0	1,085.8	1,017.7	1,007.0	7.7	7.8	172.50	179.2	47.4	326.3	311.9	22.581		
1,200.0	1,180.6	1,093.7	1,079.7	8.3	8.2	171.90	201.1	45.0	381.0	365.6	24.833		
1,300.0	1,274.2	1,165.6	1,147.9	8.9	8.6	171.30	223.5	42.3	440.3	424.2	27.230		
1,400.0	1,367.1	1,234.2	1,212.5	9.4	9.0	170.18	246.4	39.2	502.8	486.0	29.872		
1,500.0	1,460.1	1,300.0	1,273.9	9.7	9.4	169.20	269.7	35.9	566.9	549.5	32.579		
1,600.0	1,553.1	1,364.5	1,333.6	10.1	9.7	168.31	293.9	32.2	632.5	614.5	35.186		
1,700.0	1,646.1	1,426.3	1,390.2	10.5	10.0	167.50	318.3	28.3	699.6	681.1	37.810		
1,800.0	1,739.0	1,488.9	1,447.1	10.9	10.3	166.74	344.1	24.1	768.0	749.0	40.416		
1,900.0	1,832.0	1,560.9	1,512.3	11.3	10.5	165.97	374.3	19.0	836.9	817.3	42.669		
2,000.0	1,925.0	1,633.0	1,577.6	11.8	10.8	165.32	404.4	14.0	905.9	885.6	44.742		
2,100.0	2,017.9	1,705.0	1,642.8	12.2	11.1	164.75	434.6	9.0	974.9	954.0	46.650		
2,200.0	2,110.9	1,777.1	1,708.1	12.6	11.4	164.27	464.7	3.9	1,043.9	1,022.4	48.410		
2,300.0	2,203.9	1,849.2	1,773.3	13.1	11.6	163.84	494.9	-1.1	1,113.0	1,090.8	50.033		
2,400.0	2,296.9	1,921.2	1,838.6	13.6	11.9	163.46	525.0	-6.1	1,182.1	1,159.2	51.534		
2,500.0	2,389.8	1,993.3	1,903.9	14.0	12.2	163.12	555.2	-11.2	1,251.3	1,227.6	52.923		
2,600.0	2,482.8	2,065.3	1,969.1	14.5	12.5	162.82	585.3	-16.2	1,320.4	1,296.1	54.207		
2,700.0	2,575.8	2,137.4	2,034.4	15.0	12.8	162.55	615.5	-21.2	1,389.6	1,364.5	55.399		
2,800.0	2,668.7	2,209.4	2,099.6	15.5	13.2	162.30	645.6	-26.3	1,458.8	1,433.0	56.506		
2,900.0	2,761.7	2,281.5	2,164.9	16.0	13.5	162.08	675.7	-31.3	1,528.0	1,501.5	57.533		
3,000.0	2,854.7	2,353.6	2,230.1	16.5	13.8	161.87	705.9	-36.3	1,597.2	1,569.9	58.489		
3,100.0	2,947.7	2,425.6	2,295.4	17.1	14.1	161.69	736.0	-41.4	1,666.5	1,638.4	59.381		
3,200.0	3,040.6	2,497.7	2,360.6	17.6	14.5	161.51	766.2	-46.4	1,735.7	1,706.9	60.213		
3,300.0	3,133.6	2,569.7	2,425.9	18.2	14.8	161.35	796.3	-51.4	1,805.0	1,775.4	60.989		
3,400.0	3,226.6	2,641.8	2,491.2	18.8	15.2	161.21	826.5	-56.5	1,874.2	1,843.8	61.716		
3,500.0	3,319.5	2,713.8	2,556.4	19.4	15.5	161.07	856.6	-61.5	1,943.5	1,912.3	62.397		
3,600.0	3,412.5	2,785.9	2,621.7	20.0	15.9	160.94	886.8	-66.5	2,012.7	1,980.8	63.035		
3,700.0	3,505.5	2,858.0	2,686.9	20.6	16.3	160.82	916.9	-71.6	2,082.0	2,049.3	63.634		
3,800.0	3,598.5	2,930.0	2,752.2	21.2	16.7	160.71	947.0	-76.6	2,151.3	2,117.8	64.197		
3,900.0	3,691.4	3,002.1	2,817.4	21.9	17.1	160.61	977.2	-81.6	2,220.6	2,186.2	64.728		
4,000.0	3,784.4	3,074.1	2,882.7	22.5	17.6	160.51	1,007.3	-86.7	2,289.8	2,254.7	65.227		
4,100.0	3,877.4	3,146.2	2,948.0	23.1	18.1	160.42	1,037.5	-91.7	2,359.1	2,323.2	65.698		
4,200.0	3,970.3	3,218.3	3,013.2	23.8	18.6	160.33	1,067.6	-96.7	2,428.4	2,391.7	66.143		
4,300.0	4,063.3	3,290.3	3,078.5	24.4	19.0	160.25	1,097.8	-101.8	2,497.7	2,460.2	66.563		
4,400.0	4,156.3	3,362.4	3,143.7	25.0	19.5	160.17	1,127.9	-106.8	2,567.0	2,528.7	66.961		
4,500.0	4,249.3	3,434.4	3,209.0	25.7	20.0	160.09	1,158.1	-111.8	2,636.3	2,597.1	67.337		
4,600.0	4,342.2	3,506.5	3,274.2	26.3	20.5	160.02	1,188.2	-116.8	2,705.6	2,665.6	67.694		
4,700.0	4,435.2	3,578.5	3,339.5	27.0	21.0	159.96	1,218.3	-121.9	2,774.9	2,734.1	68.033		
4,800.0	4,528.2	3,650.6	3,404.7	27.6	21.5	159.89	1,248.5	-126.9	2,844.2	2,802.6	68.354		
4,900.0	4,621.1	3,722.7	3,470.0	28.2	22.1	159.83	1,278.6	-131.9	2,913.5	2,871.1	68.660		

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 Fed 0993-16-12W - Slot 16-12W
<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 Fed 0993-16-12W	<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)	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	4,714.1	3,794.7	3,535.3	28.9	22.6	159.78	1,308.8	-137.0	2,982.8	2,939.5	68.950		
5,100.0	4,807.1	3,866.8	3,600.5	29.5	23.1	159.72	1,338.9	-142.0	3,052.1	3,008.0	69.226		
5,200.0	4,900.4	3,939.4	3,666.3	30.1	23.6	160.13	1,369.3	-147.1	3,120.8	3,075.8	69.478		
5,300.0	4,994.9	4,014.2	3,734.0	30.7	24.1	160.64	1,400.6	-152.3	3,187.1	3,141.3	69.588		
5,400.0	5,090.4	4,091.0	3,803.6	31.2	24.7	161.08	1,432.7	-157.7	3,250.9	3,204.2	69.603		
5,500.0	5,186.9	4,169.8	3,874.9	31.7	25.2	161.44	1,465.7	-163.2	3,312.2	3,264.6	69.552		
5,600.0	5,284.3	4,250.5	3,948.0	32.1	25.8	161.75	1,499.4	-168.8	3,370.9	3,322.3	69.443		
5,700.0	5,382.4	4,332.9	4,022.7	32.5	26.4	162.01	1,533.9	-174.6	3,426.8	3,377.3	69.282		
5,800.0	5,481.1	4,417.1	4,098.9	32.8	27.0	162.21	1,569.2	-180.4	3,480.0	3,429.6	69.077		
5,900.0	5,580.4	4,502.9	4,176.6	33.0	27.6	162.37	1,605.0	-186.4	3,530.3	3,479.1	68.835		
6,000.0	5,679.9	4,590.1	4,255.6	33.2	28.2	162.49	1,641.5	-192.5	3,577.8	3,525.7	68.566		
6,100.0	5,779.8	4,678.7	4,335.8	33.3	28.9	162.56	1,678.6	-198.7	3,622.4	3,569.4	68.286		
6,200.0	5,879.8	4,768.6	4,417.2	33.4	29.5	162.60	1,716.2	-205.0	3,664.1	3,610.3	68.222		
6,300.0	5,979.8	4,859.2	4,499.2	33.4	30.1	11.92	1,754.1	-211.3	3,704.0	3,649.7	68.225		
6,400.0	6,079.8	4,949.0	4,579.8	33.4	30.6	10.02	2,085.4	-266.6	3,710.0	3,644.3	56.482		
6,500.0	6,179.8	5,040.0	4,659.8	33.4	31.0	10.02	2,085.4	-266.6	3,710.0	3,644.3	56.440		
6,600.0	6,279.8	5,130.0	4,739.8	33.4	31.4	10.02	2,085.4	-266.6	3,710.0	3,644.2	56.397		
6,700.0	6,379.8	5,219.0	4,819.8	33.4	31.8	10.02	2,085.4	-266.6	3,710.0	3,644.2	56.355		
6,800.0	6,479.8	5,308.0	4,899.8	33.5	32.2	10.02	2,085.4	-266.6	3,710.0	3,644.1	56.312		
6,900.0	6,579.8	5,397.0	4,979.8	33.5	32.6	10.02	2,085.4	-266.6	3,710.0	3,644.1	56.269		
7,000.0	6,679.8	5,486.0	5,059.8	33.5	33.0	10.02	2,085.4	-266.6	3,710.0	3,644.0	56.225		
7,100.0	6,779.8	5,575.0	5,139.8	33.5	33.4	10.02	2,085.4	-266.6	3,710.0	3,644.0	56.182		
7,200.0	6,879.8	5,664.0	5,219.8	33.5	33.8	10.02	2,085.4	-266.6	3,710.0	3,643.9	56.138		
7,300.0	6,979.8	5,753.0	5,299.8	33.5	34.2	10.02	2,085.4	-266.6	3,710.0	3,643.9	56.094		
7,400.0	7,079.8	5,842.0	5,379.8	33.5	34.6	10.02	2,085.4	-266.6	3,710.0	3,643.8	56.050		
7,500.0	7,179.8	5,931.0	5,459.8	33.5	35.0	10.02	2,085.4	-266.6	3,710.0	3,643.8	56.005		
7,600.0	7,279.8	6,020.0	5,539.8	33.5	35.4	10.02	2,085.4	-266.6	3,710.0	3,643.7	55.960		
7,700.0	7,379.8	6,109.0	5,619.8	33.5	35.8	10.02	2,085.4	-266.6	3,710.0	3,643.6	55.915		
7,800.0	7,479.8	6,198.0	5,699.8	33.5	36.2	10.02	2,085.4	-266.6	3,710.0	3,643.6	55.870		
7,900.0	7,579.8	6,287.0	5,779.8	33.6	36.6	10.02	2,085.4	-266.6	3,710.0	3,643.5	55.825		
8,000.0	7,679.8	6,376.0	5,859.8	33.6	37.0	10.02	2,085.4	-266.6	3,710.0	3,643.5	55.779		
8,100.0	7,779.8	6,465.0	5,939.8	33.6	37.4	10.02	2,085.4	-266.6	3,710.0	3,643.4	55.733		
8,200.0	7,879.8	6,554.0	6,019.8	33.6	37.8	10.02	2,085.4	-266.6	3,710.0	3,643.4	55.687		
8,300.0	7,979.8	6,643.0	6,099.8	33.6	38.2	10.02	2,085.4	-266.6	3,710.0	3,643.3	55.641		
8,400.0	8,079.8	6,732.0	6,179.8	33.6	38.6	10.02	2,085.4	-266.6	3,710.0	3,643.3	55.594		
8,500.0	8,179.8	6,821.0	6,259.8	33.6	39.0	10.02	2,085.4	-266.6	3,710.0	3,643.2	55.548		
8,600.0	8,279.8	6,910.0	6,339.8	33.6	39.4	10.02	2,085.4	-266.6	3,710.0	3,643.2	55.501		
8,700.0	8,379.8	7,000.0	6,419.8	33.6	39.8	10.02	2,085.4	-266.6	3,710.0	3,643.1	55.454		
8,800.0	8,479.8	7,090.0	6,499.8	33.7	40.2	10.02	2,085.4	-266.6	3,710.0	3,643.0	55.406		
8,900.0	8,579.8	7,180.0	6,579.8	33.7	40.6	10.02	2,085.4	-266.6	3,710.0	3,643.0	55.359		
8,904.5	8,584.3	7,184.5	6,584.3	33.7	40.6	10.02	2,085.4	-266.6	3,710.0	3,643.0	55.356		
9,000.0	8,679.8	7,270.0	6,659.8	33.7	41.0	10.02	2,085.4	-266.6	3,710.0	3,643.0	55.315		
9,007.2	8,687.0	7,277.2	6,667.0	33.7	41.0	10.02	2,085.4	-266.6	3,710.2	3,643.1	55.313		

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 Fed 0993-16-12W - Slot 16-12W
<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 Fed 0993-16-12W	<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 0993-16-03M - 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 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	35.64	57.5	41.2	70.7				
100.0	100.0	100.0	100.0	0.8	0.8	35.64	57.5	41.2	70.7	69.1	44.647	CC	
107.4	107.4	107.4	107.4	0.8	0.8	160.64	57.5	41.2	70.7	69.1	42.369		
200.0	200.0	200.0	200.0	1.3	1.4	160.65	57.5	41.2	70.7	68.0	25.885	ES	
300.0	300.0	299.6	299.6	2.3	1.7	161.14	57.5	41.2	72.8	68.7	18.046		
400.0	399.8	397.7	397.7	3.5	2.5	161.10	59.8	40.7	79.6	73.9	13.973		
500.0	499.4	495.0	494.8	3.8	3.6	166.10	65.3	39.5	92.1	85.4	13.787	SF	
600.0	598.7	590.9	590.3	4.4	4.4	170.23	73.9	37.6	110.2	102.3	13.955		
700.0	697.5	684.9	683.5	5.1	5.2	171.40	85.4	35.0	134.2	125.0	14.544		
800.0	795.7	776.4	773.9	5.8	5.8	171.32	99.3	31.9	164.2	153.7	15.677		
900.0	893.3	865.0	860.9	6.5	6.4	170.76	115.6	28.3	200.1	188.4	17.199		
1,000.0	990.0	950.2	944.1	7.1	7.0	170.05	133.7	24.3	241.7	229.0	19.015		
1,100.0	1,085.8	1,031.8	1,023.2	7.7	7.4	169.34	153.2	19.9	288.8	275.2	21.215		
1,200.0	1,180.6	1,117.3	1,105.8	8.3	7.6	168.67	174.9	15.1	340.2	325.8	23.587		
1,300.0	1,274.2	1,201.0	1,186.6	8.9	7.9	168.23	196.1	10.4	394.7	379.5	25.899		
1,400.0	1,367.1	1,283.7	1,266.5	9.4	8.2	167.46	217.0	5.7	450.7	434.8	28.301		
1,500.0	1,460.1	1,366.4	1,346.3	9.7	8.4	166.86	237.9	1.1	506.8	490.2	30.608		
1,600.0	1,553.1	1,449.1	1,426.2	10.1	8.7	166.37	258.9	-3.6	562.9	545.7	32.705		
1,700.0	1,646.1	1,531.8	1,506.0	10.5	9.0	165.97	279.8	-8.2	619.0	601.1	34.610		
1,800.0	1,739.0	1,614.5	1,585.9	10.9	9.4	165.64	300.8	-12.9	675.2	656.6	36.342		
1,900.0	1,832.0	1,697.2	1,665.8	11.3	9.7	165.36	321.7	-17.6	731.3	712.0	37.918		
2,000.0	1,925.0	1,779.8	1,745.6	11.8	10.0	165.12	342.7	-22.2	787.5	767.5	39.351		
2,100.0	2,017.9	1,862.5	1,825.5	12.2	10.3	164.91	363.6	-26.9	843.6	822.9	40.659		
2,200.0	2,110.9	1,945.2	1,905.4	12.6	10.7	164.73	384.5	-31.5	899.8	878.3	41.855		
2,300.0	2,203.9	2,027.9	1,985.2	13.1	11.0	164.57	405.5	-36.2	956.0	933.8	42.950		
2,400.0	2,296.9	2,110.6	2,065.1	13.6	11.4	164.43	426.4	-40.8	1,012.2	989.2	43.955		
2,500.0	2,389.8	2,193.3	2,145.0	14.0	11.7	164.30	447.4	-45.5	1,068.4	1,044.6	44.877		
2,600.0	2,482.8	2,276.0	2,224.8	14.5	12.1	164.18	468.3	-50.2	1,124.6	1,100.0	45.726		
2,700.0	2,575.8	2,358.7	2,304.7	15.0	12.4	164.08	489.3	-54.8	1,180.8	1,155.4	46.509		
2,800.0	2,668.7	2,441.4	2,384.6	15.5	12.8	163.98	510.2	-59.5	1,237.0	1,210.8	47.234		
2,900.0	2,761.7	2,524.1	2,464.4	16.0	13.2	163.90	531.1	-64.1	1,293.2	1,266.2	47.904		
3,000.0	2,854.7	2,606.8	2,544.3	16.5	13.5	163.82	552.1	-68.8	1,349.4	1,321.6	48.527		
3,100.0	2,947.7	2,689.5	2,624.1	17.1	13.9	163.75	573.0	-73.5	1,405.6	1,377.0	49.104		
3,200.0	3,040.6	2,772.2	2,704.0	17.6	14.3	163.68	594.0	-78.1	1,461.8	1,432.4	49.642		
3,300.0	3,133.6	2,854.9	2,783.9	18.2	14.7	163.62	614.9	-82.8	1,518.0	1,487.8	50.144		
3,400.0	3,226.6	2,937.6	2,863.7	18.8	15.0	163.56	635.8	-87.4	1,574.2	1,543.1	50.613		
3,500.0	3,319.5	3,020.3	2,943.6	19.4	15.4	163.50	656.8	-92.1	1,630.4	1,598.5	51.051		
3,600.0	3,412.5	3,103.0	3,023.5	20.0	15.8	163.45	677.7	-96.7	1,686.7	1,653.9	51.462		
3,700.0	3,505.5	3,185.7	3,103.3	20.6	16.2	163.41	698.7	-101.4	1,742.9	1,709.3	51.848		
3,800.0	3,598.5	3,268.4	3,183.2	21.2	16.6	163.36	719.6	-106.1	1,799.1	1,764.6	52.210		
3,900.0	3,691.4	3,351.1	3,263.1	21.9	16.9	163.32	740.6	-110.7	1,855.3	1,820.0	52.551		
4,000.0	3,784.4	3,433.8	3,342.9	22.5	17.3	163.28	761.5	-115.4	1,911.5	1,875.4	52.872		
4,100.0	3,877.4	3,516.5	3,422.8	23.1	17.7	163.24	782.4	-120.0	1,967.7	1,930.7	53.175		
4,200.0	3,970.3	3,599.2	3,502.7	23.8	18.1	163.21	803.4	-124.7	2,024.0	1,986.1	53.461		
4,300.0	4,063.3	3,681.9	3,582.5	24.4	18.5	163.18	824.3	-129.3	2,080.2	2,041.5	53.731		
4,400.0	4,156.3	3,764.6	3,662.4	25.0	18.9	163.14	845.3	-134.0	2,136.4	2,096.8	53.987		
4,500.0	4,249.3	3,847.3	3,742.3	25.7	19.3	163.12	866.2	-138.7	2,192.6	2,152.2	54.230		
4,600.0	4,342.2	3,929.9	3,822.1	26.3	19.7	163.09	887.2	-143.3	2,248.8	2,207.5	54.460		
4,700.0	4,435.2	4,012.6	3,902.0	27.0	20.1	163.06	908.1	-148.0	2,305.0	2,262.9	54.679		
4,800.0	4,528.2	4,095.3	3,981.8	27.6	20.5	163.04	929.0	-152.6	2,361.3	2,318.2	54.887		
4,900.0	4,621.1	4,178.0	4,061.7	28.2	20.9	163.01	950.0	-157.3	2,417.5	2,373.6	55.084		

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 Fed 0993-16-12W - Slot 16-12W
<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 Fed 0993-16-12W	<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		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	4,714.1	4,260.7	4,141.6	28.9	21.3	162.99	970.9	-162.0	2,473.7	2,428.9	55.273	
5,100.0	4,807.1	4,343.4	4,221.4	29.5	21.6	162.97	991.9	-166.6	2,529.9	2,484.3	55.452	
5,200.0	4,900.4	4,426.6	4,301.8	30.1	22.0	163.22	1,012.9	-171.3	2,585.4	2,538.9	55.611	
5,300.0	4,994.9	4,511.5	4,383.8	30.7	22.5	163.52	1,034.4	-176.1	2,638.2	2,590.8	55.640	
5,400.0	5,090.4	4,598.1	4,467.4	31.2	22.9	163.77	1,056.4	-181.0	2,688.1	2,639.7	55.583	
5,500.0	5,186.9	4,686.3	4,552.6	31.7	23.3	163.97	1,078.7	-185.9	2,735.0	2,685.7	55.468	
5,600.0	5,284.3	4,776.0	4,639.2	32.1	23.7	164.13	1,101.4	-191.0	2,779.0	2,728.8	55.300	
5,700.0	5,382.4	4,867.0	4,727.1	32.5	24.2	164.24	1,124.5	-196.1	2,820.0	2,768.8	55.085	
5,800.0	5,481.1	4,959.3	4,816.2	32.8	24.6	164.31	1,147.8	-201.3	2,857.9	2,805.8	54.829	
5,900.0	5,580.4	5,052.7	4,906.5	33.0	25.1	164.35	1,171.5	-206.6	2,892.7	2,839.6	54.539	
6,000.0	5,679.9	5,147.2	4,997.7	33.2	25.5	164.34	1,195.4	-211.9	2,924.3	2,870.4	54.222	
6,100.0	5,779.8	5,242.5	5,089.8	33.3	26.0	164.31	1,219.6	-217.3	2,952.7	2,898.0	53.896	
6,200.0	5,879.8	5,337.9	5,182.0	33.4	26.6	163.57	1,244.3	-223.0	2,977.9	2,924.3	53.522	
6,300.0	5,979.8	5,434.2	5,275.3	33.4	27.1	163.11	1,269.6	-228.8	2,999.6	2,946.1	53.100	
6,400.0	6,079.8	5,531.5	5,368.6	33.4	27.7	162.64	1,295.4	-234.7	3,017.9	2,963.4	52.630	
6,500.0	6,179.8	5,628.8	5,462.0	33.4	28.2	162.17	1,321.7	-240.7	3,032.9	2,977.4	52.110	
6,600.0	6,279.8	5,726.1	5,555.4	33.4	28.8	161.70	1,348.4	-246.8	3,045.6	2,988.5	51.590	
6,700.0	6,379.8	5,823.4	5,648.8	33.4	29.4	161.23	1,375.6	-253.0	3,055.0	2,996.7	51.070	
6,800.0	6,479.8	5,920.7	5,742.2	33.5	29.9	160.76	1,403.3	-259.3	3,061.1	2,999.0	50.550	
6,900.0	6,579.8	6,018.0	5,835.6	33.5	30.5	160.29	1,431.5	-265.7	3,063.9	2,995.3	50.030	
7,000.0	6,679.8	6,115.3	5,929.0	33.5	31.1	159.82	1,460.2	-272.2	3,063.4	2,985.7	49.510	
7,100.0	6,779.8	6,212.6	6,022.4	33.5	31.7	159.35	1,489.4	-278.8	3,059.6	2,970.1	48.990	
7,200.0	6,879.8	6,310.0	6,115.8	33.5	32.3	158.88	1,519.1	-285.5	3,052.5	2,949.5	48.470	
7,300.0	6,979.8	6,407.3	6,209.2	33.5	32.9	158.41	1,549.3	-292.3	3,042.1	2,923.9	47.950	
7,400.0	7,079.8	6,504.7	6,302.6	33.5	33.5	157.94	1,580.0	-299.2	3,028.4	2,893.3	47.430	
7,500.0	7,179.8	6,602.0	6,396.0	33.5	34.1	157.47	1,611.2	-306.2	3,011.5	2,857.7	46.910	
7,600.0	7,279.8	6,700.0	6,489.4	33.5	34.7	157.00	1,642.9	-313.3	2,991.5	2,817.1	46.390	
7,700.0	7,379.8	6,797.3	6,582.8	33.5	35.3	156.53	1,675.1	-320.5	2,968.4	2,771.5	45.870	
7,800.0	7,479.8	6,895.7	6,676.2	33.5	35.9	156.06	1,707.8	-327.8	2,942.1	2,720.9	45.350	
7,900.0	7,579.8	6,994.0	6,769.6	33.6	36.5	155.59	1,741.1	-335.2	2,912.6	2,665.3	44.830	
8,000.0	7,679.8	7,092.4	6,863.0	33.6	37.1	155.12	1,775.0	-342.7	2,880.0	2,604.7	44.310	
8,100.0	7,779.8	7,190.7	6,956.4	33.6	37.7	154.65	1,809.4	-350.3	2,844.3	2,539.1	43.790	
8,200.0	7,879.8	7,289.1	7,049.8	33.6	38.3	154.18	1,844.3	-358.0	2,805.6	2,468.5	43.270	
8,300.0	7,979.8	7,387.4	7,143.2	33.6	38.9	153.71	1,879.7	-365.8	2,763.9	2,392.9	42.750	
8,400.0	8,079.8	7,485.8	7,236.6	33.6	39.5	153.24	1,915.6	-373.7	2,719.2	2,312.3	42.230	
8,500.0	8,179.8	7,584.1	7,330.0	33.6	40.1	152.77	1,952.0	-381.7	2,671.5	2,221.7	41.710	
8,600.0	8,279.8	7,682.5	7,423.4	33.6	40.7	152.30	1,988.9	-389.8	2,620.8	2,121.1	41.190	
8,700.0	8,379.8	7,780.8	7,516.8	33.6	41.3	151.83	2,026.3	-398.0	2,567.1	2,010.5	40.670	
8,800.0	8,479.8	7,879.2	7,610.2	33.7	41.9	151.36	2,064.2	-406.3	2,510.4	1,899.9	40.150	
8,900.0	8,579.8	7,977.5	7,703.6	33.7	42.5	150.89	2,102.6	-414.7	2,451.7	1,789.3	39.630	
9,000.0	8,679.8	8,075.9	7,797.0	33.7	43.1	150.42	2,141.5	-423.2	2,390.0	1,678.7	39.110	
9,007.2	8,687.0	8,075.9	7,797.0	33.7	43.1	150.42	2,141.5	-423.2	3,098.7	3,039.6	52.420	

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 Fed 0993-16-12W - Slot 16-12W
<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 Fed 0993-16-12W	<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 0993-16-04M - 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 Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +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	34.30	50.3	34.3	60.8				
100.0	100.0	100.0	100.0	0.8	0.8	34.30	50.3	34.3	60.8	59.2	38.401	CC	
107.4	107.4	107.4	107.4	0.8	0.8	159.30	50.3	34.3	60.8	59.2	36.442		
200.0	200.0	200.0	200.0	1.3	1.4	159.30	50.3	34.3	60.8	58.1	22.264	ES	
300.0	300.0	299.7	299.7	2.3	1.7	159.78	50.4	34.2	62.9	58.9	15.887		
400.0	399.8	398.7	398.7	3.5	2.5	159.06	52.8	32.5	69.1	63.7	12.660	SF	
500.0	499.4	497.1	496.9	3.8	3.6	162.95	58.0	28.9	80.0	73.8	12.880		
600.0	598.7	593.4	592.7	4.4	4.0	166.02	65.8	24.1	96.2	89.1	13.499		
700.0	697.5	687.5	686.0	5.1	4.6	166.76	76.7	19.2	118.9	110.6	14.215		
800.0	795.7	779.1	776.5	5.8	5.3	166.70	90.1	14.4	148.1	138.5	15.439		
900.0	893.3	867.7	863.6	6.5	5.9	166.42	105.9	9.6	183.6	172.8	16.980		
1,000.0	990.0	956.2	950.0	7.1	6.4	166.10	123.9	4.7	224.7	212.8	18.892		
1,100.0	1,085.8	1,045.6	1,037.4	7.7	6.7	165.96	142.4	-0.2	269.3	256.5	21.013		
1,200.0	1,180.6	1,133.3	1,123.1	8.3	7.0	165.97	160.6	-5.0	317.1	303.4	23.183		
1,300.0	1,274.2	1,219.4	1,207.2	8.9	7.3	166.06	178.4	-9.8	367.9	353.3	25.317		
1,400.0	1,367.1	1,304.6	1,290.4	9.4	7.6	165.73	196.1	-14.5	420.2	405.0	27.569		
1,500.0	1,460.1	1,389.8	1,373.6	9.7	7.9	165.47	213.7	-19.1	472.6	456.7	29.724		
1,600.0	1,553.1	1,475.0	1,456.8	10.1	8.3	165.26	231.3	-23.8	524.9	508.4	31.668		
1,700.0	1,646.1	1,560.2	1,540.0	10.5	8.6	165.09	248.9	-28.5	577.3	560.0	33.423		
1,800.0	1,739.0	1,645.3	1,623.2	10.9	8.9	164.94	266.6	-33.2	629.7	611.7	35.010		
1,900.0	1,832.0	1,730.5	1,706.4	11.3	9.2	164.82	284.2	-37.9	682.0	663.3	36.448		
2,000.0	1,925.0	1,815.7	1,789.6	11.8	9.6	164.72	301.8	-42.6	734.4	714.9	37.752		
2,100.0	2,017.9	1,900.9	1,872.8	12.2	9.9	164.63	319.4	-47.3	786.8	766.6	38.939		
2,200.0	2,110.9	1,986.1	1,956.1	12.6	10.3	164.55	337.1	-52.0	839.1	818.2	40.019		
2,300.0	2,203.9	2,071.3	2,039.3	13.1	10.6	164.48	354.7	-56.6	891.5	869.8	41.006		
2,400.0	2,296.9	2,156.4	2,122.5	13.6	11.0	164.42	372.3	-61.3	943.9	921.4	41.910		
2,500.0	2,389.8	2,241.6	2,205.7	14.0	11.4	164.37	390.0	-66.0	996.3	973.0	42.740		
2,600.0	2,482.8	2,326.8	2,288.9	14.5	11.7	164.32	407.6	-70.7	1,048.6	1,024.5	43.502		
2,700.0	2,575.8	2,412.0	2,372.1	15.0	12.1	164.27	425.2	-75.4	1,101.0	1,076.1	44.205		
2,800.0	2,668.7	2,497.2	2,455.3	15.5	12.5	164.23	442.8	-80.1	1,153.4	1,127.7	44.855		
2,900.0	2,761.7	2,582.4	2,538.5	16.0	12.9	164.19	460.5	-84.8	1,205.8	1,179.3	45.455		
3,000.0	2,854.7	2,667.5	2,621.7	16.5	13.2	164.16	478.1	-89.5	1,258.2	1,230.8	46.012		
3,100.0	2,947.7	2,752.7	2,704.9	17.1	13.6	164.13	495.7	-94.1	1,310.5	1,282.4	46.530		
3,200.0	3,040.6	2,837.9	2,788.1	17.6	14.0	164.10	513.4	-98.8	1,362.9	1,333.9	47.012		
3,300.0	3,133.6	2,923.1	2,871.3	18.2	14.4	164.07	531.0	-103.5	1,415.3	1,385.5	47.461		
3,400.0	3,226.6	3,008.3	2,954.5	18.8	14.7	164.05	548.6	-108.2	1,467.7	1,437.0	47.881		
3,500.0	3,319.5	3,093.5	3,037.7	19.4	15.1	164.02	566.2	-112.9	1,520.1	1,488.6	48.274		
3,600.0	3,412.5	3,178.6	3,120.9	20.0	15.5	164.00	583.9	-117.6	1,572.4	1,540.1	48.642		
3,700.0	3,505.5	3,263.8	3,204.2	20.6	15.9	163.98	601.5	-122.3	1,624.8	1,591.7	48.988		
3,800.0	3,598.5	3,349.0	3,287.4	21.2	16.3	163.96	619.1	-126.9	1,677.2	1,643.2	49.313		
3,900.0	3,691.4	3,434.2	3,370.6	21.9	16.7	163.95	636.8	-131.6	1,729.6	1,694.7	49.619		
4,000.0	3,784.4	3,519.4	3,453.8	22.5	17.1	163.93	654.4	-136.3	1,782.0	1,746.3	49.907		
4,100.0	3,877.4	3,604.5	3,537.0	23.1	17.4	163.91	672.0	-141.0	1,834.3	1,797.8	50.179		
4,200.0	3,970.3	3,689.7	3,620.2	23.8	17.8	163.90	689.6	-145.7	1,886.7	1,849.3	50.436		
4,300.0	4,063.3	3,774.9	3,703.4	24.4	18.2	163.88	707.3	-150.4	1,939.1	1,900.8	50.680		
4,400.0	4,156.3	3,860.1	3,786.6	25.0	18.6	163.87	724.9	-155.1	1,991.5	1,952.4	50.910		
4,500.0	4,249.3	3,945.3	3,869.8	25.7	19.0	163.86	742.5	-159.8	2,043.9	2,003.9	51.129		
4,600.0	4,342.2	4,030.5	3,953.0	26.3	19.4	163.85	760.2	-164.4	2,096.2	2,055.4	51.337		
4,700.0	4,435.2	4,115.6	4,036.2	27.0	19.8	163.83	777.8	-169.1	2,148.6	2,106.9	51.534		
4,800.0	4,528.2	4,200.8	4,119.4	27.6	20.2	163.82	795.4	-173.8	2,201.0	2,158.5	51.722		
4,900.0	4,621.1	4,286.0	4,202.6	28.2	20.6	163.81	813.0	-178.5	2,253.4	2,210.0	51.900		

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 Fed 0993-16-12W - Slot 16-12W
<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 Fed 0993-16-12W	<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 0993-16-04M - OH - Design #4	Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Measured Depth (usft)	Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance		Separation Factor	Warning
	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Offset	Reference (usft)	Offset (usft)				Between Centres (usft)	Between Ellipses (usft)		
5,000.0	4,714.1	4,371.2	4,285.8	28.9	21.0	163.80	830.7	-183.2	2,305.8	2,261.5	52.071		
5,100.0	4,807.1	4,456.4	4,369.0	29.5	21.4	163.79	848.3	-187.9	2,358.2	2,313.0	52.233		
5,200.0	4,900.4	4,542.0	4,452.7	30.1	21.8	164.02	866.0	-192.6	2,409.8	2,363.8	52.375		
5,300.0	4,994.9	4,629.3	4,537.9	30.7	22.2	164.28	884.1	-197.4	2,458.6	2,411.6	52.388		
5,400.0	5,090.4	4,718.1	4,624.7	31.2	22.6	164.50	902.5	-202.3	2,504.4	2,456.6	52.316		
5,500.0	5,186.9	4,808.4	4,712.9	31.7	23.0	164.67	921.1	-207.2	2,547.3	2,498.5	52.185		
5,600.0	5,284.3	4,900.0	4,802.4	32.1	23.5	164.79	940.1	-212.3	2,587.1	2,537.3	52.002		
5,700.0	5,382.4	4,992.9	4,893.1	32.5	23.9	164.87	959.3	-217.4	2,623.7	2,573.1	51.771		
5,800.0	5,481.1	5,086.9	4,985.0	32.8	24.3	164.92	978.8	-222.6	2,657.3	2,605.7	51.499		
5,900.0	5,580.4	5,181.9	5,077.8	33.0	24.8	164.93	998.4	-227.8	2,687.7	2,635.1	51.193		
6,000.0	5,679.9	5,277.8	5,171.5	33.2	25.2	164.90	1,018.3	-233.1	2,714.8	2,661.4	50.858		
6,100.0	5,779.8	5,487.3	5,376.7	33.3	26.2	164.64	1,058.6	-243.8	2,738.3	2,683.0	49.519		
6,200.0	5,879.8	5,992.7	5,879.8	33.4	28.3	164.33	1,098.0	-254.3	2,746.0	2,687.4	46.850		
6,300.0	5,979.8	6,092.7	5,979.8	33.4	28.4	13.87	1,098.0	-254.3	2,746.0	2,687.3	46.781		
6,400.0	6,079.8	6,192.7	6,079.8	33.4	28.4	13.87	1,098.0	-254.3	2,746.0	2,687.3	46.736		
6,500.0	6,179.8	6,292.7	6,179.8	33.4	28.4	13.87	1,098.0	-254.3	2,746.0	2,687.2	46.690		
6,600.0	6,279.8	6,392.7	6,279.8	33.4	28.5	13.87	1,098.0	-254.3	2,746.0	2,687.1	46.644		
6,700.0	6,379.8	6,492.7	6,379.8	33.4	28.5	13.87	1,098.0	-254.3	2,746.0	2,687.1	46.598		
6,800.0	6,479.8	6,592.7	6,479.8	33.5	28.5	13.87	1,098.0	-254.3	2,746.0	2,687.0	46.551		
6,900.0	6,579.8	6,692.7	6,579.8	33.5	28.6	13.87	1,098.0	-254.3	2,746.0	2,687.0	46.505		
7,000.0	6,679.8	6,792.7	6,679.8	33.5	28.6	13.87	1,098.0	-254.3	2,746.0	2,686.9	46.458		
7,100.0	6,779.8	6,892.7	6,779.8	33.5	28.7	13.87	1,098.0	-254.3	2,746.0	2,686.8	46.410		
7,200.0	6,879.8	6,992.7	6,879.8	33.5	28.7	13.87	1,098.0	-254.3	2,746.0	2,686.8	46.363		
7,300.0	6,979.8	7,092.7	6,979.8	33.5	28.7	13.87	1,098.0	-254.3	2,746.0	2,686.7	46.316		
7,400.0	7,079.8	7,192.7	7,079.8	33.5	28.8	13.87	1,098.0	-254.3	2,746.0	2,686.7	46.268		
7,500.0	7,179.8	7,292.7	7,179.8	33.5	28.8	13.87	1,098.0	-254.3	2,746.0	2,686.6	46.220		
7,600.0	7,279.8	7,392.7	7,279.8	33.5	28.9	13.87	1,098.0	-254.3	2,746.0	2,686.5	46.172		
7,700.0	7,379.8	7,492.7	7,379.8	33.5	28.9	13.87	1,098.0	-254.3	2,746.0	2,686.5	46.123		
7,800.0	7,479.8	7,592.7	7,479.8	33.5	29.0	13.87	1,098.0	-254.3	2,746.0	2,686.4	46.075		
7,900.0	7,579.8	7,692.7	7,579.8	33.6	29.0	13.87	1,098.0	-254.3	2,746.0	2,686.3	46.026		
8,000.0	7,679.8	7,792.7	7,679.8	33.6	29.0	13.87	1,098.0	-254.3	2,746.0	2,686.3	45.977		
8,100.0	7,779.8	7,892.7	7,779.8	33.6	29.1	13.87	1,098.0	-254.3	2,746.0	2,686.2	45.928		
8,200.0	7,879.8	7,992.7	7,879.8	33.6	29.1	13.87	1,098.0	-254.3	2,746.0	2,686.2	45.879		
8,300.0	7,979.8	8,092.7	7,979.8	33.6	29.2	13.87	1,098.0	-254.3	2,746.0	2,686.1	45.830		
8,400.0	8,079.8	8,192.7	8,079.8	33.6	29.2	13.87	1,098.0	-254.3	2,746.0	2,686.0	45.780		
8,500.0	8,179.8	8,292.7	8,179.8	33.6	29.2	13.87	1,098.0	-254.3	2,746.0	2,686.0	45.730		
8,600.0	8,279.8	8,392.7	8,279.8	33.6	29.3	13.87	1,098.0	-254.3	2,746.0	2,685.9	45.681		
8,700.0	8,379.8	8,492.7	8,379.8	33.6	29.3	13.87	1,098.0	-254.3	2,746.0	2,685.8	45.631		
8,800.0	8,479.8	8,592.7	8,479.8	33.7	29.4	13.87	1,098.0	-254.3	2,746.0	2,685.8	45.580		
8,900.0	8,579.8	8,692.7	8,579.8	33.7	29.4	13.87	1,098.0	-254.3	2,746.0	2,685.7	45.530		
8,906.8	8,586.6	8,699.5	8,586.6	33.7	29.4	13.87	1,098.0	-254.3	2,746.0	2,685.7	45.526		
9,000.0	8,679.8	8,769.9	8,657.0	33.7	29.4	13.87	1,098.0	-254.3	2,746.1	2,685.8	45.521		
9,007.2	8,687.0	8,769.9	8,657.0	33.7	29.4	13.87	1,098.0	-254.3	2,746.2	2,685.9	45.530		

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 Fed 0993-16-12W - Slot 16-12W
<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 Fed 0993-16-12W	<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)	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	29.75	35.8	20.5	41.2				
100.0	100.0	100.0	100.0	0.8	0.8	29.75	35.8	20.5	41.2	39.7	26.038	CC	
107.4	107.4	107.4	107.4	0.8	0.8	154.75	35.8	20.5	41.2	39.6	24.710		
200.0	200.0	200.0	200.0	1.3	1.4	154.76	35.8	20.5	41.3	38.5	15.099	ES	
300.0	300.0	300.0	300.0	2.3	1.9	155.93	35.8	20.5	43.2	39.0	10.396		
400.0	399.8	399.8	399.8	3.5	2.2	158.59	35.8	20.5	48.3	42.7	8.618	SF	
500.0	499.4	499.4	499.4	3.8	2.5	167.65	35.8	20.5	56.9	50.6	9.130		
600.0	598.7	598.7	598.7	4.4	2.8	175.65	35.8	20.5	68.9	61.7	9.661		
700.0	697.5	697.2	697.2	5.1	3.0	-179.96	35.9	20.4	84.3	76.2	10.437		
800.0	795.7	793.5	793.5	5.8	3.5	-178.53	37.9	19.7	104.1	95.0	11.457		
900.0	893.3	888.0	887.8	6.5	4.3	-178.99	42.9	17.9	129.2	119.0	12.704		
1,000.0	990.0	980.2	979.7	7.1	5.0	179.74	50.6	15.1	159.6	148.4	14.229		
1,100.0	1,085.8	1,069.7	1,068.5	7.7	5.6	178.21	60.7	11.4	195.5	183.2	16.005		
1,200.0	1,180.6	1,159.4	1,157.2	8.3	6.1	176.74	72.8	7.1	236.3	223.1	17.874		
1,300.0	1,274.2	1,248.7	1,245.6	8.9	6.4	175.71	84.9	2.6	280.6	266.5	19.871		
1,400.0	1,367.1	1,337.2	1,333.2	9.4	6.6	174.38	97.0	-1.7	326.7	311.9	22.125		
1,500.0	1,460.1	1,425.7	1,420.8	9.7	6.9	173.38	109.0	-6.1	372.9	357.5	24.296		
1,600.0	1,553.1	1,514.3	1,508.4	10.1	7.1	172.60	121.1	-10.5	419.1	403.2	26.275		
1,700.0	1,646.1	1,602.8	1,596.0	10.5	7.4	171.98	133.1	-14.8	465.4	448.9	28.077		
1,800.0	1,739.0	1,691.3	1,683.6	10.9	7.7	171.46	145.2	-19.2	511.8	494.6	29.717		
1,900.0	1,832.0	1,779.9	1,771.2	11.3	8.0	171.03	157.2	-23.6	558.2	540.3	31.210		
2,000.0	1,925.0	1,868.4	1,858.8	11.8	8.3	170.67	169.3	-28.0	604.6	586.0	32.571		
2,100.0	2,017.9	1,956.9	1,946.4	12.2	8.6	170.36	181.3	-32.3	651.0	631.7	33.813		
2,200.0	2,110.9	2,045.4	2,034.0	12.6	8.9	170.09	193.4	-36.7	697.4	677.4	34.949		
2,300.0	2,203.9	2,134.0	2,121.6	13.1	9.2	169.86	205.4	-41.1	743.8	723.1	35.989		
2,400.0	2,296.9	2,222.5	2,209.2	13.6	9.6	169.65	217.4	-45.4	790.2	768.9	36.942		
2,500.0	2,389.8	2,311.0	2,296.8	14.0	9.9	169.46	229.5	-49.8	836.7	814.6	37.819		
2,600.0	2,482.8	2,399.6	2,384.4	14.5	10.2	169.30	241.5	-54.2	883.1	860.3	38.625		
2,700.0	2,575.8	2,488.1	2,472.0	15.0	10.6	169.15	253.6	-58.6	929.6	906.0	39.368		
2,800.0	2,668.7	2,576.6	2,559.6	15.5	10.9	169.01	265.6	-62.9	976.1	951.7	40.055		
2,900.0	2,761.7	2,665.1	2,647.1	16.0	11.2	168.89	277.7	-67.3	1,022.5	997.4	40.691		
3,000.0	2,854.7	2,753.7	2,734.7	16.5	11.6	168.78	289.7	-71.7	1,069.0	1,043.1	41.281		
3,100.0	2,947.7	2,842.2	2,822.3	17.1	11.9	168.67	301.8	-76.0	1,115.5	1,088.8	41.829		
3,200.0	3,040.6	2,930.7	2,909.9	17.6	12.3	168.58	313.8	-80.4	1,162.0	1,134.5	42.339		
3,300.0	3,133.6	3,019.2	2,997.5	18.2	12.6	168.49	325.9	-84.8	1,208.4	1,180.2	42.815		
3,400.0	3,226.6	3,107.8	3,085.1	18.8	13.0	168.41	337.9	-89.2	1,254.9	1,225.9	43.259		
3,500.0	3,319.5	3,196.3	3,172.7	19.4	13.3	168.34	350.0	-93.5	1,301.4	1,271.6	43.674		
3,600.0	3,412.5	3,284.8	3,260.3	20.0	13.7	168.27	362.0	-97.9	1,347.9	1,317.3	44.063		
3,700.0	3,505.5	3,373.4	3,347.9	20.6	14.1	168.20	374.1	-102.3	1,394.4	1,363.0	44.428		
3,800.0	3,598.5	3,461.9	3,435.5	21.2	14.4	168.14	386.1	-106.6	1,440.9	1,408.7	44.771		
3,900.0	3,691.4	3,550.4	3,523.1	21.9	14.8	168.08	398.2	-111.0	1,487.3	1,454.4	45.094		
4,000.0	3,784.4	3,638.9	3,610.7	22.5	15.2	168.03	410.2	-115.4	1,533.8	1,500.0	45.398		
4,100.0	3,877.4	3,727.5	3,698.3	23.1	15.5	167.98	422.2	-119.8	1,580.3	1,545.7	45.685		
4,200.0	3,970.3	3,816.0	3,785.9	23.8	15.9	167.93	434.3	-124.1	1,626.8	1,591.4	45.955		
4,300.0	4,063.3	3,904.5	3,873.5	24.4	16.3	167.89	446.3	-128.5	1,673.3	1,637.1	46.212		
4,400.0	4,156.3	3,993.1	3,961.1	25.0	16.6	167.84	458.4	-132.9	1,719.8	1,682.8	46.454		
4,500.0	4,249.3	4,081.6	4,048.7	25.7	17.0	167.80	470.4	-137.2	1,766.3	1,728.4	46.684		
4,600.0	4,342.2	4,170.1	4,136.3	26.3	17.4	167.77	482.5	-141.6	1,812.8	1,774.1	46.902		
4,700.0	4,435.2	4,258.6	4,223.9	27.0	17.7	167.73	494.5	-146.0	1,859.3	1,819.8	47.109		
4,800.0	4,528.2	4,347.2	4,311.5	27.6	18.1	167.70	506.6	-150.4	1,905.8	1,865.5	47.306		
4,900.0	4,621.1	4,435.7	4,399.1	28.2	18.5	167.66	518.6	-154.7	1,952.3	1,911.2	47.494		

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 Fed 0993-16-12W - Slot 16-12W
<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 Fed 0993-16-12W	<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)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
5,000.0	4,714.1	4,524.2	4,486.7	28.9	18.8	167.63	530.7	-159.1	1,998.8	1,956.8	47.672	
5,100.0	4,807.1	4,612.8	4,574.3	29.5	19.2	167.60	542.7	-163.5	2,045.3	2,002.5	47.842	
5,200.0	4,900.4	4,701.7	4,662.3	30.1	19.6	167.73	554.8	-167.9	2,090.9	2,047.4	47.990	
5,300.0	4,994.9	4,792.1	4,751.7	30.7	20.0	167.87	567.1	-172.3	2,133.7	2,089.2	48.002	
5,400.0	5,090.4	4,883.9	4,842.5	31.2	20.4	167.98	579.6	-176.9	2,173.3	2,127.9	47.923	
5,500.0	5,186.9	4,976.9	4,934.6	31.7	20.8	168.05	592.3	-181.4	2,209.8	2,163.5	47.782	
5,600.0	5,284.3	5,071.1	5,027.8	32.1	21.2	168.09	605.1	-186.1	2,243.1	2,195.9	47.585	
5,700.0	5,382.4	5,166.4	5,122.0	32.5	21.6	168.09	618.0	-190.8	2,273.1	2,225.1	47.336	
5,800.0	5,481.1	5,262.6	5,217.2	32.8	22.0	168.07	631.1	-195.6	2,299.9	2,251.0	47.043	
5,900.0	5,580.4	5,359.6	5,313.2	33.0	22.4	168.01	644.3	-200.3	2,323.4	2,273.6	46.711	
6,000.0	5,679.9	5,457.3	5,409.9	33.2	22.8	167.93	657.6	-205.2	2,343.6	2,293.0	46.347	
6,100.0	5,779.8	5,665.6	5,616.6	33.3	23.9	167.67	681.4	-213.8	2,359.1	2,306.6	44.973	
6,200.0	5,879.8	5,929.1	5,879.8	33.4	24.9	167.56	691.6	-217.5	2,364.0	2,310.0	43.764	
6,300.0	5,979.8	6,029.1	5,979.8	33.4	24.9	17.09	691.6	-217.5	2,364.0	2,309.9	43.684	
6,400.0	6,079.8	6,129.1	6,079.8	33.4	24.9	17.09	691.6	-217.5	2,364.0	2,309.8	43.632	
6,500.0	6,179.8	6,229.1	6,179.8	33.4	25.0	17.09	691.6	-217.5	2,364.0	2,309.7	43.579	
6,600.0	6,279.8	6,329.1	6,279.8	33.4	25.0	17.09	691.6	-217.5	2,364.0	2,309.7	43.525	
6,700.0	6,379.8	6,429.1	6,379.8	33.4	25.1	17.09	691.6	-217.5	2,364.0	2,309.6	43.472	
6,800.0	6,479.8	6,529.1	6,479.8	33.5	25.1	17.09	691.6	-217.5	2,364.0	2,309.5	43.418	
6,900.0	6,579.8	6,629.1	6,579.8	33.5	25.2	17.09	691.6	-217.5	2,364.0	2,309.5	43.364	
7,000.0	6,679.8	6,729.1	6,679.8	33.5	25.2	17.09	691.6	-217.5	2,364.0	2,309.4	43.310	
7,100.0	6,779.8	6,829.1	6,779.8	33.5	25.3	17.09	691.6	-217.5	2,364.0	2,309.3	43.256	
7,200.0	6,879.8	6,929.1	6,879.8	33.5	25.3	17.09	691.6	-217.5	2,364.0	2,309.3	43.201	
7,300.0	6,979.8	7,029.1	6,979.8	33.5	25.4	17.09	691.6	-217.5	2,364.0	2,309.2	43.147	
7,400.0	7,079.8	7,129.1	7,079.8	33.5	25.4	17.09	691.6	-217.5	2,364.0	2,309.1	43.092	
7,500.0	7,179.8	7,229.1	7,179.8	33.5	25.4	17.09	691.6	-217.5	2,364.0	2,309.1	43.037	
7,600.0	7,279.8	7,329.1	7,279.8	33.5	25.5	17.09	691.6	-217.5	2,364.0	2,309.0	42.982	
7,700.0	7,379.8	7,429.1	7,379.8	33.5	25.5	17.09	691.6	-217.5	2,364.0	2,308.9	42.927	
7,800.0	7,479.8	7,529.1	7,479.8	33.5	25.6	17.09	691.6	-217.5	2,364.0	2,308.8	42.871	
7,900.0	7,579.8	7,629.1	7,579.8	33.6	25.6	17.09	691.6	-217.5	2,364.0	2,308.8	42.816	
8,000.0	7,679.8	7,729.1	7,679.8	33.6	25.7	17.09	691.6	-217.5	2,364.0	2,308.7	42.760	
8,100.0	7,779.8	7,829.1	7,779.8	33.6	25.7	17.09	691.6	-217.5	2,364.0	2,308.6	42.708	
8,200.0	7,879.8	7,851.3	7,802.0	33.6	25.7	17.09	691.6	-217.5	2,365.3	2,310.1	42.894	
8,300.0	7,979.8	7,851.3	7,802.0	33.6	25.7	17.09	691.6	-217.5	2,370.7	2,315.9	43.265	
8,400.0	8,079.8	7,851.3	7,802.0	33.6	25.7	17.09	691.6	-217.5	2,380.2	2,325.9	43.769	
8,500.0	8,179.8	7,851.3	7,802.0	33.6	25.7	17.09	691.6	-217.5	2,394.0	2,340.1	44.406	
8,600.0	8,279.8	7,851.3	7,802.0	33.6	25.7	17.09	691.6	-217.5	2,411.8	2,358.4	45.175	
8,700.0	8,379.8	7,851.3	7,802.0	33.6	25.7	17.09	691.6	-217.5	2,433.6	2,380.7	46.074	
8,800.0	8,479.8	7,851.3	7,802.0	33.7	25.7	17.09	691.6	-217.5	2,459.2	2,407.0	47.099	
8,900.0	8,579.8	7,851.3	7,802.0	33.7	25.7	17.09	691.6	-217.5	2,488.6	2,437.1	48.248	
9,000.0	8,679.8	7,851.3	7,802.0	33.7	25.7	17.09	691.6	-217.5	2,521.7	2,470.8	49.515	
9,007.2	8,687.0	7,851.3	7,802.0	33.7	25.7	17.09	691.6	-217.5	2,524.2	2,473.3	49.611	

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 Fed 0993-16-12W - Slot 16-12W
<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 Fed 0993-16-12W	<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 0993-16-06W - 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)			
0.0	0.0	0.0	0.0	0.0	0.0	25.33	28.6	13.5	31.6				
100.0	100.0	100.0	100.0	0.8	0.8	25.33	28.6	13.5	31.6	30.0	19.967	CC	
107.4	107.4	107.4	107.4	0.8	0.8	150.33	28.6	13.5	31.6	30.0	18.949		
200.0	200.0	200.0	200.0	1.3	1.4	150.34	28.6	13.5	31.6	28.9	11.579	ES	
300.0	300.0	300.0	300.0	2.3	1.9	152.10	28.6	13.5	33.5	29.3	8.099		
400.0	399.8	399.8	399.8	3.5	2.2	155.95	28.6	13.5	38.5	32.9	6.909	SF	
500.0	499.4	499.6	499.6	3.8	2.4	165.80	28.7	13.3	46.9	40.8	7.752		
600.0	598.7	599.6	599.6	4.4	3.1	171.52	29.5	10.3	57.8	50.8	8.317		
700.0	697.5	699.3	699.0	5.1	4.1	171.79	31.3	3.9	71.1	63.1	8.926		
800.0	795.7	798.3	797.5	5.8	4.9	169.50	33.9	-5.7	87.4	78.6	9.903		
900.0	893.3	896.3	894.6	6.5	5.6	166.21	37.5	-18.4	107.2	97.7	11.177		
1,000.0	990.0	993.1	990.1	7.1	6.2	162.72	41.8	-34.1	131.0	120.7	12.671		
1,100.0	1,085.8	1,088.7	1,083.8	7.7	6.5	159.89	46.7	-52.0	158.8	147.8	14.392		
1,200.0	1,180.6	1,183.3	1,176.6	8.3	6.8	157.80	51.7	-69.8	190.4	178.6	16.095		
1,300.0	1,274.2	1,276.8	1,268.3	8.9	7.0	156.70	56.6	-87.3	225.4	212.7	17.793		
1,400.0	1,367.1	1,369.7	1,359.4	9.4	7.3	155.64	61.4	-104.8	262.1	248.7	19.595		
1,500.0	1,460.1	1,462.6	1,450.5	9.7	7.7	154.84	66.3	-122.3	298.8	284.8	21.297		
1,600.0	1,553.1	1,555.5	1,541.7	10.1	8.0	154.22	71.1	-139.8	335.6	320.9	22.806		
1,700.0	1,646.1	1,648.5	1,632.8	10.5	8.3	153.72	75.9	-157.3	372.5	357.1	24.147		
1,800.0	1,739.0	1,741.4	1,724.0	10.9	8.7	153.31	80.8	-174.8	409.3	393.2	25.343		
1,900.0	1,832.0	1,834.3	1,815.1	11.3	9.0	152.96	85.6	-192.2	446.2	429.3	26.411		
2,000.0	1,925.0	1,927.2	1,906.2	11.8	9.4	152.67	90.5	-209.7	483.1	465.4	27.369		
2,100.0	2,017.9	2,020.2	1,997.4	12.2	9.7	152.42	95.3	-227.2	520.0	501.5	28.230		
2,200.0	2,110.9	2,113.1	2,088.5	12.6	10.1	152.21	100.2	-244.7	556.8	537.7	29.006		
2,300.0	2,203.9	2,206.0	2,179.6	13.1	10.5	152.02	105.0	-262.2	593.7	573.8	29.709		
2,400.0	2,296.9	2,299.0	2,270.8	13.6	10.9	151.85	109.9	-279.6	630.7	609.9	30.347		
2,500.0	2,389.8	2,391.9	2,361.9	14.0	11.2	151.70	114.7	-297.1	667.6	646.0	30.928		
2,600.0	2,482.8	2,484.8	2,453.1	14.5	11.6	151.57	119.6	-314.6	704.5	682.1	31.458		
2,700.0	2,575.8	2,577.7	2,544.2	15.0	12.0	151.45	124.4	-332.1	741.4	718.2	31.944		
2,800.0	2,668.7	2,670.7	2,635.3	15.5	12.4	151.34	129.3	-349.6	778.3	754.3	32.391		
2,900.0	2,761.7	2,763.6	2,726.5	16.0	12.8	151.24	134.1	-367.1	815.2	790.4	32.801		
3,000.0	2,854.7	2,856.5	2,817.6	16.5	13.2	151.15	139.0	-384.5	852.1	826.5	33.181		
3,100.0	2,947.7	2,949.4	2,908.8	17.1	13.6	151.07	143.8	-402.0	889.1	862.6	33.532		
3,200.0	3,040.6	3,042.4	2,999.9	17.6	14.0	150.99	148.7	-419.5	926.0	898.6	33.858		
3,300.0	3,133.6	3,135.3	3,091.0	18.2	14.4	150.92	153.5	-437.0	962.9	934.7	34.160		
3,400.0	3,226.6	3,228.2	3,182.2	18.8	14.8	150.86	158.3	-454.5	999.8	970.8	34.442		
3,500.0	3,319.5	3,321.1	3,273.3	19.4	15.2	150.79	163.2	-471.9	1,036.8	1,006.9	34.705		
3,600.0	3,412.5	3,414.1	3,364.4	20.0	15.6	150.74	168.0	-489.4	1,073.7	1,043.0	34.951		
3,700.0	3,505.5	3,507.0	3,455.6	20.6	16.1	150.69	172.9	-506.9	1,110.6	1,079.1	35.182		
3,800.0	3,598.5	3,599.9	3,546.7	21.2	16.5	150.64	177.7	-524.4	1,147.6	1,115.1	35.398		
3,900.0	3,691.4	3,692.8	3,637.9	21.9	16.9	150.59	182.6	-541.9	1,184.5	1,151.2	35.601		
4,000.0	3,784.4	3,785.8	3,729.0	22.5	17.3	150.55	187.4	-559.4	1,221.4	1,187.3	35.793		
4,100.0	3,877.4	3,878.7	3,820.1	23.1	17.7	150.51	192.3	-576.8	1,258.4	1,223.4	35.973		
4,200.0	3,970.3	3,971.6	3,911.3	23.8	18.1	150.47	197.1	-594.3	1,295.3	1,259.5	36.144		
4,300.0	4,063.3	4,064.6	4,002.4	24.4	18.6	150.43	202.0	-611.8	1,332.2	1,295.5	36.305		
4,400.0	4,156.3	4,157.5	4,093.6	25.0	19.0	150.40	206.8	-629.3	1,369.2	1,331.6	36.457		
4,500.0	4,249.3	4,250.4	4,184.7	25.7	19.4	150.36	211.7	-646.8	1,406.1	1,367.7	36.602		
4,600.0	4,342.2	4,343.3	4,275.8	26.3	19.8	150.33	216.5	-664.3	1,443.0	1,403.8	36.739		
4,700.0	4,435.2	4,436.3	4,367.0	27.0	20.2	150.30	221.4	-681.7	1,480.0	1,439.8	36.869		
4,800.0	4,528.2	4,529.2	4,458.1	27.6	20.7	150.28	226.2	-699.2	1,516.9	1,475.9	36.993		
4,900.0	4,621.1	4,622.1	4,549.2	28.2	21.1	150.25	231.0	-716.7	1,553.8	1,512.0	37.111		

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 Fed 0993-16-12W - Slot 16-12W
<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 Fed 0993-16-12W	<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 0993-16-06W - 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	4,714.1	4,715.0	4,640.4	28.9	21.5	150.22	235.9	-734.2	1,590.8	1,548.0	37.223		
5,100.0	4,807.1	4,808.0	4,731.5	29.5	21.9	150.20	240.7	-751.7	1,627.7	1,584.1	37.331		
5,200.0	4,900.4	4,901.2	4,822.9	30.1	22.3	150.44	245.6	-769.2	1,663.9	1,619.4	37.423		
5,300.0	4,994.9	4,995.4	4,915.3	30.7	22.8	150.69	250.5	-786.9	1,697.3	1,652.0	37.417		
5,400.0	5,090.4	5,090.5	5,008.6	31.2	23.2	150.85	255.5	-804.8	1,727.9	1,681.6	37.346		
5,500.0	5,186.9	5,186.4	5,102.7	31.7	23.6	150.92	260.5	-822.9	1,755.5	1,708.4	37.227		
5,600.0	5,284.3	5,283.0	5,197.4	32.1	24.1	150.91	265.5	-841.0	1,780.3	1,732.3	37.064		
5,700.0	5,382.4	5,380.1	5,292.7	32.5	24.5	150.83	270.6	-859.3	1,802.1	1,753.2	36.864		
5,800.0	5,481.1	5,494.0	5,404.7	32.8	25.1	150.65	276.1	-879.1	1,820.6	1,770.8	36.500		
5,900.0	5,580.4	5,612.5	5,522.0	33.0	25.7	150.51	280.5	-895.2	1,835.2	1,784.4	36.152		
6,000.0	5,679.9	5,732.2	5,641.1	33.2	26.3	150.42	283.7	-906.7	1,845.6	1,794.1	35.819		
6,100.0	5,779.8	5,852.8	5,761.5	33.3	26.8	150.38	285.6	-913.4	1,851.9	1,799.8	35.505		
6,200.0	5,879.8	5,971.1	5,879.8	33.4	27.1	150.38	286.1	-915.3	1,854.1	1,801.6	35.335		
6,300.0	5,979.8	6,071.1	5,979.8	33.4	27.1	-0.09	286.1	-915.3	1,854.1	1,801.5	35.275		
6,400.0	6,079.8	6,171.1	6,079.8	33.4	27.2	-0.09	286.1	-915.3	1,854.1	1,801.5	35.233		
6,500.0	6,179.8	6,271.1	6,179.8	33.4	27.2	-0.09	286.1	-915.3	1,854.1	1,801.4	35.190		
6,600.0	6,279.8	6,371.1	6,279.8	33.4	27.2	-0.09	286.1	-915.3	1,854.1	1,801.4	35.147		
6,700.0	6,379.8	6,471.1	6,379.8	33.4	27.3	-0.09	286.1	-915.3	1,854.1	1,801.3	35.103		
6,800.0	6,479.8	6,571.1	6,479.8	33.5	27.3	-0.09	286.1	-915.3	1,854.1	1,801.2	35.059		
6,900.0	6,579.8	6,671.1	6,579.8	33.5	27.3	-0.09	286.1	-915.3	1,854.1	1,801.2	35.016		
7,000.0	6,679.8	6,771.1	6,679.8	33.5	27.4	-0.09	286.1	-915.3	1,854.1	1,801.1	34.972		
7,100.0	6,779.8	6,871.1	6,779.8	33.5	27.4	-0.09	286.1	-915.3	1,854.1	1,801.0	34.927		
7,200.0	6,879.8	6,971.1	6,879.8	33.5	27.4	-0.09	286.1	-915.3	1,854.1	1,801.0	34.883		
7,300.0	6,979.8	7,071.1	6,979.8	33.5	27.5	-0.09	286.1	-915.3	1,854.1	1,800.9	34.839		
7,400.0	7,079.8	7,171.1	7,079.8	33.5	27.5	-0.09	286.1	-915.3	1,854.1	1,800.8	34.794		
7,500.0	7,179.8	7,271.1	7,179.8	33.5	27.5	-0.09	286.1	-915.3	1,854.1	1,800.7	34.749		
7,600.0	7,279.8	7,371.1	7,279.8	33.5	27.6	-0.09	286.1	-915.3	1,854.1	1,800.7	34.704		
7,700.0	7,379.8	7,471.1	7,379.8	33.5	27.6	-0.09	286.1	-915.3	1,854.1	1,800.6	34.659		
7,800.0	7,479.8	7,571.1	7,479.8	33.5	27.6	-0.09	286.1	-915.3	1,854.1	1,800.5	34.614		
7,900.0	7,579.8	7,671.1	7,579.8	33.6	27.7	-0.09	286.1	-915.3	1,854.1	1,800.5	34.569		
8,000.0	7,679.8	7,771.1	7,679.8	33.6	27.7	-0.09	286.1	-915.3	1,854.1	1,800.4	34.524		
8,100.0	7,779.8	7,871.1	7,779.8	33.6	27.7	-0.09	286.1	-915.3	1,854.1	1,800.3	34.478		
8,200.0	7,879.8	7,971.1	7,879.8	33.6	27.8	-0.09	286.1	-915.3	1,854.1	1,800.3	34.433		
8,300.0	7,979.8	8,071.1	7,979.8	33.6	27.8	-0.09	286.1	-915.3	1,854.1	1,800.2	34.387		
8,400.0	8,079.8	8,171.1	8,079.8	33.6	27.8	-0.09	286.1	-915.3	1,854.1	1,800.1	34.341		
8,500.0	8,179.8	8,271.1	8,179.8	33.6	27.9	-0.09	286.1	-915.3	1,854.1	1,800.0	34.295		
8,600.0	8,279.8	8,371.1	8,279.8	33.6	27.9	-0.09	286.1	-915.3	1,854.1	1,800.0	34.249		
8,700.0	8,379.8	8,471.1	8,379.8	33.6	28.0	-0.09	286.1	-915.3	1,854.1	1,799.9	34.203		
8,800.0	8,479.8	8,571.1	8,479.8	33.7	28.0	-0.09	286.1	-915.3	1,854.1	1,799.8	34.156		
8,900.0	8,579.8	8,671.1	8,579.8	33.7	28.0	-0.09	286.1	-915.3	1,854.1	1,799.7	34.110		
8,911.3	8,591.1	8,682.5	8,591.1	33.7	28.0	-0.09	286.1	-915.3	1,854.1	1,799.7	34.105		
9,000.0	8,679.8	8,757.4	8,666.0	33.7	28.1	-0.09	286.1	-915.3	1,854.2	1,799.8	34.103		
9,007.2	8,687.0	8,757.4	8,666.0	33.7	28.1	-0.09	286.1	-915.3	1,854.2	1,799.9	34.118		

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 Fed 0993-16-12W - Slot 16-12W
<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 Fed 0993-16-12W	<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 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	17.22	21.4	6.6	22.4			
100.0	100.0	100.0	100.0	0.8	0.8	17.22	21.4	6.6	22.4	20.8	14.122	CC
107.4	107.4	107.4	107.4	0.8	0.8	142.23	21.4	6.6	22.4	20.7	13.402	
200.0	200.0	200.0	200.0	1.3	1.4	142.25	21.4	6.6	22.4	19.7	8.191	ES
300.0	300.0	300.0	300.0	2.3	1.9	145.28	21.4	6.6	24.1	20.0	5.877	
400.0	399.8	399.8	399.8	3.5	2.2	151.56	21.4	6.6	28.8	23.3	5.235	SF
500.0	499.4	500.1	500.0	3.8	2.8	161.48	21.4	4.9	36.2	30.1	5.905	
600.0	598.7	600.3	600.2	4.4	3.8	166.12	21.4	-0.4	45.3	38.1	6.307	
700.0	697.5	701.0	700.5	5.1	4.1	165.75	21.0	-9.0	56.1	48.1	7.045	
800.0	795.7	802.5	801.3	5.8	4.4	164.78	17.9	-19.6	67.4	58.4	7.465	
900.0	893.3	903.1	901.0	6.5	4.7	163.81	12.0	-31.8	79.2	69.3	8.030	
1,000.0	990.0	1,002.0	998.9	7.1	5.0	163.29	5.8	-44.0	94.0	83.3	8.779	
1,100.0	1,085.8	1,100.2	1,096.3	7.7	5.3	163.21	-0.5	-56.2	112.3	100.8	9.686	
1,200.0	1,180.6	1,197.8	1,192.9	8.3	5.6	163.43	-6.6	-68.3	134.1	121.6	10.726	
1,300.0	1,274.2	1,294.6	1,288.8	8.9	6.0	163.84	-12.8	-80.3	159.2	145.7	11.862	
1,400.0	1,367.1	1,391.0	1,384.2	9.4	6.3	163.78	-18.8	-92.3	186.0	171.8	13.116	
1,500.0	1,460.1	1,487.3	1,479.6	9.7	6.7	163.73	-24.9	-104.2	212.7	197.9	14.310	
1,600.0	1,553.1	1,583.7	1,575.0	10.1	7.0	163.69	-31.0	-116.1	239.5	224.0	15.379	
1,700.0	1,646.1	1,680.0	1,670.4	10.5	7.4	163.66	-37.1	-128.1	266.3	250.0	16.338	
1,800.0	1,739.0	1,776.4	1,765.8	10.9	7.8	163.63	-43.2	-140.0	293.1	276.1	17.200	
1,900.0	1,832.0	1,872.7	1,861.2	11.3	8.1	163.61	-49.3	-152.0	319.9	302.1	17.978	
2,000.0	1,925.0	1,969.0	1,956.6	11.8	8.5	163.59	-55.4	-163.9	346.7	328.1	18.681	
2,100.0	2,017.9	2,061.2	2,047.9	12.2	8.9	163.63	-61.0	-175.0	373.8	354.5	19.359	
2,200.0	2,110.9	2,149.1	2,135.3	12.6	9.4	163.93	-65.3	-183.3	402.6	382.6	20.040	
2,300.0	2,203.9	2,235.7	2,221.7	13.1	9.9	164.47	-68.3	-189.3	433.4	412.5	20.743	
2,400.0	2,296.9	2,321.0	2,306.9	13.6	10.3	165.18	-70.1	-192.8	466.2	444.5	21.505	
2,500.0	2,389.8	2,404.9	2,390.7	14.0	10.7	166.02	-70.8	-194.1	500.9	478.5	22.354	
2,600.0	2,482.8	2,496.9	2,482.8	14.5	10.8	166.96	-70.8	-194.1	536.8	513.8	23.311	
2,700.0	2,575.8	2,589.9	2,575.8	15.0	10.9	167.79	-70.8	-194.1	572.9	549.3	24.235	
2,800.0	2,668.7	2,682.9	2,668.7	15.5	10.9	168.52	-70.8	-194.1	609.0	584.8	25.121	
2,900.0	2,761.7	2,775.9	2,761.7	16.0	11.0	169.17	-70.8	-194.1	645.3	620.4	25.970	
3,000.0	2,854.7	2,868.8	2,854.7	16.5	11.0	169.75	-70.8	-194.1	681.6	656.1	26.786	
3,100.0	2,947.7	2,961.8	2,947.7	17.1	11.1	170.27	-70.8	-194.1	717.9	691.9	27.569	
3,200.0	3,040.6	3,054.8	3,040.6	17.6	11.2	170.74	-70.8	-194.1	754.3	727.7	28.320	
3,300.0	3,133.6	3,147.7	3,133.6	18.2	11.2	171.17	-70.8	-194.1	790.7	763.5	29.041	
3,400.0	3,226.6	3,240.7	3,226.6	18.8	11.3	171.56	-70.8	-194.1	827.2	799.4	29.734	
3,500.0	3,319.5	3,333.7	3,319.5	19.4	11.4	171.92	-70.8	-194.1	863.7	835.3	30.400	
3,600.0	3,412.5	3,426.7	3,412.5	20.0	11.4	172.25	-70.8	-194.1	900.2	871.2	31.041	
3,700.0	3,505.5	3,519.6	3,505.5	20.6	11.5	172.55	-70.8	-194.1	936.8	907.2	31.656	
3,800.0	3,598.5	3,612.6	3,598.5	21.2	11.6	172.83	-70.8	-194.1	973.3	943.1	32.249	
3,900.0	3,691.4	3,705.6	3,691.4	21.9	11.6	173.09	-70.8	-194.1	1,009.9	979.1	32.820	
4,000.0	3,784.4	3,798.5	3,784.4	22.5	11.7	173.34	-70.8	-194.1	1,046.5	1,015.2	33.369	
4,100.0	3,877.4	3,891.5	3,877.4	23.1	11.7	173.56	-70.8	-194.1	1,083.1	1,051.2	33.899	
4,200.0	3,970.3	3,984.5	3,970.3	23.8	11.8	173.77	-70.8	-194.1	1,119.8	1,087.2	34.409	
4,300.0	4,063.3	4,077.5	4,063.3	24.4	11.9	173.97	-70.8	-194.1	1,156.4	1,123.3	34.902	
4,400.0	4,156.3	4,170.4	4,156.3	25.0	11.9	174.16	-70.8	-194.1	1,193.1	1,159.4	35.377	
4,500.0	4,249.3	4,263.4	4,249.3	25.7	12.0	174.33	-70.8	-194.1	1,229.7	1,195.4	35.836	
4,600.0	4,342.2	4,356.4	4,342.2	26.3	12.1	174.49	-70.8	-194.1	1,266.4	1,231.5	36.279	
4,700.0	4,435.2	4,449.3	4,435.2	27.0	12.1	174.65	-70.8	-194.1	1,303.1	1,267.6	36.708	
4,800.0	4,528.2	4,542.3	4,528.2	27.6	12.2	174.80	-70.8	-194.1	1,339.8	1,303.7	37.122	
4,900.0	4,621.1	4,635.3	4,621.1	28.2	12.3	174.94	-70.8	-194.1	1,376.5	1,339.8	37.523	

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 Fed 0993-16-12W - Slot 16-12W
<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 Fed 0993-16-12W	<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 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	4,714.1	4,728.3	4,714.1	28.9	12.3	175.07	-70.8	-194.1	1,413.2	1,375.9	37.911	
5,100.0	4,807.1	4,821.2	4,807.1	29.5	12.4	175.19	-70.8	-194.1	1,449.9	1,412.1	38.286	
5,200.0	4,900.4	4,914.5	4,900.4	30.1	12.5	175.35	-70.8	-194.1	1,485.8	1,447.3	38.633	
5,300.0	4,994.9	5,009.0	4,994.9	30.7	12.5	175.51	-70.8	-194.1	1,518.5	1,479.4	38.833	
5,400.0	5,090.4	5,104.6	5,090.4	31.2	12.6	175.64	-70.8	-194.1	1,547.9	1,508.1	38.931	
5,500.0	5,186.9	5,201.1	5,186.9	31.7	12.7	175.75	-70.8	-194.1	1,573.9	1,533.5	38.954	
5,600.0	5,284.3	5,298.5	5,284.3	32.1	12.7	175.85	-70.8	-194.1	1,596.6	1,555.6	38.907	
5,700.0	5,382.4	5,396.6	5,382.4	32.5	12.8	175.93	-70.8	-194.1	1,615.9	1,574.2	38.796	
5,800.0	5,481.1	5,495.3	5,481.1	32.8	12.9	175.99	-70.8	-194.1	1,631.7	1,589.5	38.626	
5,900.0	5,580.4	5,594.5	5,580.4	33.0	12.9	176.04	-70.8	-194.1	1,644.1	1,601.3	38.402	
6,000.0	5,679.9	5,694.1	5,679.9	33.2	13.0	176.07	-70.8	-194.1	1,653.1	1,609.7	38.133	
6,100.0	5,779.8	5,793.9	5,779.8	33.3	13.1	176.09	-70.8	-194.1	1,658.6	1,614.7	37.830	
6,200.0	5,879.8	5,893.9	5,879.8	33.4	13.1	176.10	-70.8	-194.1	1,660.6	1,616.5	37.672	
6,300.0	5,979.8	5,993.9	5,979.8	33.4	13.2	25.63	-70.8	-194.1	1,660.6	1,616.4	37.566	
6,400.0	6,079.8	6,093.9	6,079.8	33.4	13.3	25.63	-70.8	-194.1	1,660.6	1,616.3	37.487	
6,500.0	6,179.8	6,193.9	6,179.8	33.4	13.4	25.63	-70.8	-194.1	1,660.6	1,616.2	37.407	
6,600.0	6,279.8	6,293.9	6,279.8	33.4	13.4	25.63	-70.8	-194.1	1,660.6	1,616.1	37.327	
6,700.0	6,379.8	6,393.9	6,379.8	33.4	13.5	25.63	-70.8	-194.1	1,660.6	1,616.0	37.248	
6,800.0	6,479.8	6,493.9	6,479.8	33.5	13.6	25.63	-70.8	-194.1	1,660.6	1,615.9	37.168	
6,900.0	6,579.8	6,593.9	6,579.8	33.5	13.6	25.63	-70.8	-194.1	1,660.6	1,615.8	37.089	
7,000.0	6,679.8	6,693.9	6,679.8	33.5	13.7	25.63	-70.8	-194.1	1,660.6	1,615.7	37.010	
7,100.0	6,779.8	6,793.9	6,779.8	33.5	13.8	25.63	-70.8	-194.1	1,660.6	1,615.6	36.931	
7,200.0	6,879.8	6,893.9	6,879.8	33.5	13.9	25.63	-70.8	-194.1	1,660.6	1,615.5	36.852	
7,300.0	6,979.8	6,993.9	6,979.8	33.5	13.9	25.63	-70.8	-194.1	1,660.6	1,615.4	36.774	
7,400.0	7,079.8	7,093.9	7,079.8	33.5	14.0	25.63	-70.8	-194.1	1,660.6	1,615.3	36.695	
7,500.0	7,179.8	7,193.9	7,179.8	33.5	14.1	25.63	-70.8	-194.1	1,660.6	1,615.2	36.617	
7,600.0	7,279.8	7,293.9	7,279.8	33.5	14.2	25.63	-70.8	-194.1	1,660.6	1,615.1	36.539	
7,700.0	7,379.8	7,393.9	7,379.8	33.5	14.2	25.63	-70.8	-194.1	1,660.6	1,615.0	36.461	
7,800.0	7,479.8	7,493.9	7,479.8	33.5	14.3	25.63	-70.8	-194.1	1,660.6	1,614.9	36.383	
7,900.0	7,579.8	7,593.9	7,579.8	33.6	14.4	25.63	-70.8	-194.1	1,660.6	1,614.8	36.305	
8,000.0	7,679.8	7,693.9	7,679.8	33.6	14.4	25.63	-70.8	-194.1	1,660.6	1,614.7	36.228	
8,100.0	7,779.8	7,793.9	7,779.8	33.6	14.5	25.63	-70.8	-194.1	1,660.6	1,614.6	36.150	
8,110.0	7,789.8	7,803.9	7,789.8	33.6	14.5	25.63	-70.8	-194.1	1,660.6	1,614.6	36.144	
8,200.0	7,879.8	7,838.2	7,824.0	33.6	14.5	25.63	-70.8	-194.1	1,661.5	1,615.9	36.407	
8,300.0	7,979.8	7,838.2	7,824.0	33.6	14.5	25.63	-70.8	-194.1	1,667.9	1,622.9	37.078	
8,400.0	8,079.8	7,838.2	7,824.0	33.6	14.5	25.63	-70.8	-194.1	1,680.1	1,635.9	37.968	
8,500.0	8,179.8	7,838.2	7,824.0	33.6	14.5	25.63	-70.8	-194.1	1,698.2	1,654.8	39.074	
8,600.0	8,279.8	7,838.2	7,824.0	33.6	14.5	25.63	-70.8	-194.1	1,722.0	1,679.3	40.393	
8,700.0	8,379.8	7,838.2	7,824.0	33.6	14.5	25.63	-70.8	-194.1	1,751.1	1,709.3	41.918	
8,800.0	8,479.8	7,838.2	7,824.0	33.7	14.5	25.63	-70.8	-194.1	1,785.4	1,744.4	43.638	
8,900.0	8,579.8	7,838.2	7,824.0	33.7	14.5	25.63	-70.8	-194.1	1,824.5	1,784.4	45.541	
9,000.0	8,679.8	7,838.2	7,824.0	33.7	14.5	25.63	-70.8	-194.1	1,868.1	1,828.9	47.608	
9,007.2	8,687.0	7,838.2	7,824.0	33.7	14.5	25.63	-70.8	-194.1	1,871.4	1,832.2	47.764	

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 Fed 0993-16-12W - Slot 16-12W
<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 Fed 0993-16-12W	<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)			
0.0	0.0	0.0	0.0	0.0	0.0	-45.69	6.9	-7.1	9.9				
100.0	100.0	100.0	100.0	0.8	0.8	-45.69	6.9	-7.1	9.9	8.3	6.244		
200.0	200.0	200.0	200.0	1.3	1.4	79.41	6.9	-7.1	9.9	7.2	3.618		
292.5	292.5	292.5	292.5	2.3	1.8	90.00	6.9	-7.1	9.7	6.0	2.581 CC		
300.0	300.0	300.0	300.0	2.3	1.9	91.63	6.9	-7.1	9.7	5.9	2.532 ES		
400.0	399.8	399.8	399.8	3.5	2.2	121.01	6.9	-7.1	11.3	6.4	2.307 Level 1, SF		
500.0	499.4	499.4	499.4	3.8	2.5	151.82	6.9	-7.1	17.9	11.9	2.995		
600.0	598.7	598.7	598.7	4.4	2.8	168.11	6.9	-7.1	29.4	22.3	4.180		
700.0	697.5	697.5	697.5	5.1	3.1	175.43	6.9	-7.1	44.6	36.5	5.508		
800.0	795.7	795.7	795.7	5.8	3.3	179.07	6.9	-7.1	63.3	54.2	6.975		
900.0	893.3	893.3	893.3	6.5	3.5	-178.98	6.9	-7.1	85.2	75.3	8.547		
1,000.0	990.0	990.0	990.0	7.1	3.8	-177.88	6.9	-7.1	110.6	99.7	10.205		
1,100.0	1,085.8	1,089.7	1,089.7	7.7	4.0	-177.52	6.2	-8.3	138.0	126.2	11.776		
1,200.0	1,180.6	1,190.5	1,190.3	8.3	4.7	-177.93	3.7	-12.6	165.7	152.8	12.800		
1,300.0	1,274.2	1,291.4	1,290.9	8.9	5.0	-178.70	-0.6	-19.6	193.9	180.1	14.069		
1,400.0	1,367.1	1,392.7	1,391.7	9.4	5.3	-179.46	-8.2	-26.4	221.4	206.9	15.293		
1,500.0	1,460.1	1,495.5	1,493.7	9.7	5.7	-179.45	-19.4	-32.4	246.4	231.1	16.107		
1,600.0	1,553.1	1,593.1	1,590.3	10.1	6.0	-179.14	-31.9	-37.7	270.1	254.0	16.833		
1,700.0	1,646.1	1,690.3	1,686.6	10.5	6.2	-178.88	-44.4	-42.9	293.7	277.0	17.556		
1,800.0	1,739.0	1,787.4	1,782.8	10.9	6.5	-178.66	-56.9	-48.1	317.4	299.9	18.199		
1,900.0	1,832.0	1,884.6	1,879.0	11.3	6.7	-178.47	-69.4	-53.3	341.0	322.8	18.766		
2,000.0	1,925.0	1,981.7	1,975.2	11.8	7.0	-178.31	-81.9	-58.5	364.7	345.7	19.267		
2,100.0	2,017.9	2,078.9	2,071.4	12.2	7.3	-178.16	-94.4	-63.7	388.3	368.6	19.710		
2,200.0	2,110.9	2,176.0	2,167.6	12.6	7.6	-178.04	-106.9	-68.9	412.0	391.5	20.102		
2,300.0	2,203.9	2,273.2	2,263.8	13.1	7.9	-177.92	-119.4	-74.1	435.7	414.4	20.451		
2,400.0	2,296.9	2,370.3	2,360.0	13.6	8.3	-177.82	-131.9	-79.3	459.3	437.2	20.762		
2,500.0	2,389.8	2,467.5	2,456.2	14.0	8.6	-177.73	-144.4	-84.5	483.0	460.0	21.040		
2,600.0	2,482.8	2,564.7	2,552.4	14.5	9.0	-177.64	-156.8	-89.7	506.7	482.9	21.288		
2,700.0	2,575.8	2,661.8	2,648.7	15.0	9.3	-177.57	-169.3	-94.9	530.3	505.7	21.512		
2,800.0	2,668.7	2,759.0	2,744.9	15.5	9.7	-177.50	-181.8	-100.1	554.0	528.5	21.713		
2,900.0	2,761.7	2,856.1	2,841.1	16.0	10.0	-177.43	-194.3	-105.3	577.7	551.3	21.894		
3,000.0	2,854.7	2,953.3	2,937.3	16.5	10.4	-177.37	-206.8	-110.5	601.3	574.1	22.058		
3,100.0	2,947.7	3,050.4	3,033.5	17.1	10.8	-177.32	-219.3	-115.7	625.0	596.9	22.207		
3,200.0	3,040.6	3,147.6	3,129.7	17.6	11.2	-177.27	-231.8	-120.9	648.7	619.6	22.343		
3,300.0	3,133.6	3,244.8	3,225.9	18.2	11.6	-177.22	-244.3	-126.1	672.3	642.4	22.466		
3,400.0	3,226.6	3,341.9	3,322.1	18.8	11.9	-177.18	-256.8	-131.3	696.0	665.2	22.579		
3,500.0	3,319.5	3,439.1	3,418.3	19.4	12.3	-177.14	-269.2	-136.5	719.7	688.0	22.682		
3,600.0	3,412.5	3,536.2	3,514.5	20.0	12.7	-177.10	-281.7	-141.7	743.4	710.7	22.777		
3,700.0	3,505.5	3,633.4	3,610.8	20.6	13.1	-177.06	-294.2	-146.9	767.0	733.5	22.864		
3,800.0	3,598.5	3,730.5	3,707.0	21.2	13.5	-177.03	-306.7	-152.1	790.7	756.2	22.945		
3,900.0	3,691.4	3,827.7	3,803.2	21.9	13.9	-177.00	-319.2	-157.3	814.4	779.0	23.019		
4,000.0	3,784.4	3,924.9	3,899.4	22.5	14.3	-176.97	-331.7	-162.5	838.1	801.8	23.087		
4,100.0	3,877.4	4,022.0	3,995.6	23.1	14.7	-176.94	-344.2	-167.7	861.7	824.5	23.151		
4,200.0	3,970.3	4,119.2	4,091.8	23.8	15.1	-176.91	-356.7	-172.9	885.4	847.3	23.214		
4,300.0	4,063.3	4,200.0	4,171.9	24.4	15.4	-176.90	-366.4	-176.9	909.9	871.0	23.388		
4,400.0	4,156.3	4,270.2	4,241.7	25.0	15.7	-176.91	-373.2	-179.7	936.9	897.2	23.648		
4,500.0	4,249.3	4,342.2	4,313.5	25.7	16.1	-176.93	-378.5	-182.0	966.2	925.9	23.957		
4,600.0	4,342.2	4,413.1	4,384.3	26.3	16.4	-176.98	-382.1	-183.5	997.9	956.9	24.333		
4,700.0	4,435.2	4,482.8	4,454.0	27.0	16.8	-177.04	-384.1	-184.3	1,031.8	990.2	24.793		
4,800.0	4,528.2	4,557.0	4,528.2	27.6	16.9	-177.11	-384.5	-184.5	1,068.0	1,025.9	25.382		
4,900.0	4,621.1	4,650.0	4,621.1	28.2	16.9	-177.21	-384.5	-184.5	1,104.8	1,062.1	25.927		

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 Fed 0993-16-12W - Slot 16-12W
<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 Fed 0993-16-12W	<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 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)		
5,000.0	4,714.1	4,742.9	4,714.1	28.9	16.9	-177.30	-384.5	-184.5	1,141.5	1,098.4	26.454	
5,100.0	4,807.1	4,835.9	4,807.1	29.5	17.0	-177.38	-384.5	-184.5	1,178.3	1,134.6	26.965	
5,200.0	4,900.4	4,929.2	4,900.4	30.1	17.0	-177.49	-384.5	-184.5	1,214.3	1,170.0	27.447	
5,300.0	4,994.9	5,023.7	4,994.9	30.7	17.0	-177.58	-384.5	-184.5	1,247.0	1,202.2	27.812	
5,400.0	5,090.4	5,119.2	5,090.4	31.2	17.1	-177.66	-384.5	-184.5	1,276.5	1,231.0	28.085	
5,500.0	5,186.9	5,215.7	5,186.9	31.7	17.1	-177.73	-384.5	-184.5	1,302.6	1,256.5	28.285	
5,600.0	5,284.3	5,313.1	5,284.3	32.1	17.1	-177.79	-384.5	-184.5	1,325.3	1,278.7	28.416	
5,700.0	5,382.4	5,411.2	5,382.4	32.5	17.2	-177.84	-384.5	-184.5	1,344.6	1,297.4	28.481	
5,800.0	5,481.1	5,510.0	5,481.1	32.8	17.2	-177.87	-384.5	-184.5	1,360.5	1,312.7	28.484	
5,900.0	5,580.4	5,609.2	5,580.4	33.0	17.3	-177.90	-384.5	-184.5	1,372.9	1,324.6	28.431	
6,000.0	5,679.9	5,708.8	5,679.9	33.2	17.3	-177.92	-384.5	-184.5	1,381.9	1,333.1	28.325	
6,100.0	5,779.8	5,808.6	5,779.8	33.3	17.3	-177.93	-384.5	-184.5	1,387.4	1,338.1	28.177	
6,200.0	5,879.8	5,908.6	5,879.8	33.4	17.4	-177.94	-384.5	-184.5	1,389.4	1,339.9	28.105	
6,300.0	5,979.8	6,008.6	5,979.8	33.4	17.4	31.59	-384.5	-184.5	1,389.4	1,339.9	28.059	
6,400.0	6,079.8	6,108.6	6,079.8	33.4	17.4	31.59	-384.5	-184.5	1,389.4	1,339.8	28.029	
6,500.0	6,179.8	6,208.6	6,179.8	33.4	17.5	31.59	-384.5	-184.5	1,389.4	1,339.8	27.998	
6,600.0	6,279.8	6,308.6	6,279.8	33.4	17.5	31.59	-384.5	-184.5	1,389.4	1,339.7	27.968	
6,700.0	6,379.8	6,408.6	6,379.8	33.4	17.6	31.59	-384.5	-184.5	1,389.4	1,339.6	27.936	
6,800.0	6,479.8	6,508.6	6,479.8	33.5	17.6	31.59	-384.5	-184.5	1,389.4	1,339.6	27.905	
6,900.0	6,579.8	6,608.6	6,579.8	33.5	17.7	31.59	-384.5	-184.5	1,389.4	1,339.5	27.874	
7,000.0	6,679.8	6,708.6	6,679.8	33.5	17.7	31.59	-384.5	-184.5	1,389.4	1,339.5	27.842	
7,100.0	6,779.8	6,808.6	6,779.8	33.5	17.7	31.59	-384.5	-184.5	1,389.4	1,339.4	27.810	
7,200.0	6,879.8	6,908.6	6,879.8	33.5	17.8	31.59	-384.5	-184.5	1,389.4	1,339.4	27.778	
7,300.0	6,979.8	7,008.6	6,979.8	33.5	17.8	31.59	-384.5	-184.5	1,389.4	1,339.3	27.746	
7,400.0	7,079.8	7,108.6	7,079.8	33.5	17.9	31.59	-384.5	-184.5	1,389.4	1,339.2	27.714	
7,500.0	7,179.8	7,208.6	7,179.8	33.5	17.9	31.59	-384.5	-184.5	1,389.4	1,339.2	27.681	
7,600.0	7,279.8	7,308.6	7,279.8	33.5	17.9	31.59	-384.5	-184.5	1,389.4	1,339.1	27.648	
7,700.0	7,379.8	7,408.6	7,379.8	33.5	18.0	31.59	-384.5	-184.5	1,389.4	1,339.1	27.615	
7,800.0	7,479.8	7,508.6	7,479.8	33.5	18.0	31.59	-384.5	-184.5	1,389.4	1,339.0	27.582	
7,900.0	7,579.8	7,608.6	7,579.8	33.6	18.1	31.59	-384.5	-184.5	1,389.4	1,338.9	27.549	
8,000.0	7,679.8	7,708.6	7,679.8	33.6	18.1	31.59	-384.5	-184.5	1,389.4	1,338.9	27.515	
8,100.0	7,779.8	7,808.6	7,779.8	33.6	18.2	31.59	-384.5	-184.5	1,389.4	1,338.8	27.482	
8,200.0	7,879.8	7,908.6	7,879.8	33.6	18.2	31.59	-384.5	-184.5	1,389.4	1,338.8	27.448	
8,300.0	7,979.8	8,008.6	7,979.8	33.6	18.3	31.59	-384.5	-184.5	1,389.4	1,338.7	27.414	
8,400.0	8,079.8	8,108.6	8,079.8	33.6	18.3	31.59	-384.5	-184.5	1,389.4	1,338.6	27.380	
8,500.0	8,179.8	8,208.6	8,179.8	33.6	18.4	31.59	-384.5	-184.5	1,389.4	1,338.6	27.345	
8,600.0	8,279.8	8,308.6	8,279.8	33.6	18.4	31.59	-384.5	-184.5	1,389.4	1,338.5	27.311	
8,700.0	8,379.8	8,408.6	8,379.8	33.6	18.4	31.59	-384.5	-184.5	1,389.4	1,338.4	27.276	
8,800.0	8,479.8	8,508.6	8,479.8	33.7	18.5	31.59	-384.5	-184.5	1,389.4	1,338.4	27.242	
8,900.0	8,579.8	8,608.6	8,579.8	33.7	18.5	31.59	-384.5	-184.5	1,389.4	1,338.3	27.207	
9,000.0	8,679.8	8,708.6	8,679.8	33.7	18.6	31.59	-384.5	-184.5	1,389.4	1,338.2	27.172	
9,007.2	8,687.0	8,715.8	8,687.0	33.7	18.6	31.59	-384.5	-184.5	1,389.4	1,338.2	27.171	

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 Fed 0993-16-12W - Slot 16-12W
<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 Fed 0993-16-12W	<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 0993-16-09M - 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 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	43.77	14.5	13.8	20.0				
100.0	100.0	100.0	100.0	0.8	0.8	43.77	14.5	13.8	20.0	18.4	12.633	CC	
107.4	107.4	107.4	107.4	0.8	0.8	168.77	14.5	13.8	20.0	18.3	11.989		
200.0	200.0	200.0	200.0	1.3	1.4	168.78	14.5	13.8	20.0	17.3	7.328	ES	
300.0	300.0	300.2	300.2	2.3	1.7	170.04	14.3	13.8	22.0	17.9	5.484		
400.0	399.8	400.8	400.7	3.5	2.5	175.49	11.6	13.1	25.1	19.3	4.295		
500.0	499.4	501.4	501.1	3.8	3.6	-170.41	5.4	11.4	29.2	22.4	4.258	SF	
600.0	598.7	601.9	601.2	4.4	4.5	-157.19	-4.1	8.9	34.2	26.3	4.356		
700.0	697.5	702.2	700.6	5.1	4.9	-147.99	-16.8	5.5	39.9	31.4	4.680		
800.0	795.7	801.9	799.3	5.8	5.2	-143.89	-30.2	2.0	47.7	38.4	5.121		
900.0	893.3	901.4	897.9	6.5	5.5	-143.57	-43.5	-1.6	57.8	47.5	5.616		
1,000.0	990.0	1,000.5	996.0	7.1	5.8	-145.26	-56.8	-5.1	70.3	58.9	6.183		
1,100.0	1,085.8	1,099.2	1,093.8	7.7	6.1	-147.83	-70.0	-8.7	85.6	73.1	6.842		
1,200.0	1,180.6	1,197.3	1,190.9	8.3	6.4	-150.63	-83.2	-12.2	103.9	90.2	7.603		
1,300.0	1,274.2	1,294.7	1,287.4	8.9	6.8	-153.32	-96.2	-15.6	125.3	110.5	8.463		
1,400.0	1,367.1	1,391.7	1,383.5	9.4	7.1	-156.25	-109.2	-19.1	148.6	132.8	9.423		
1,500.0	1,460.1	1,488.8	1,479.6	9.7	7.5	-158.40	-122.2	-22.6	172.1	155.5	10.359		
1,600.0	1,553.1	1,585.8	1,575.6	10.1	7.9	-160.03	-135.2	-26.0	195.8	178.4	11.224		
1,700.0	1,646.1	1,682.8	1,671.7	10.5	8.2	-161.31	-148.2	-29.5	219.6	201.4	12.019		
1,800.0	1,739.0	1,779.8	1,767.8	10.9	8.6	-162.34	-161.2	-33.0	243.5	224.4	12.747		
1,900.0	1,832.0	1,876.8	1,863.9	11.3	9.0	-163.18	-174.2	-36.4	267.5	247.6	13.415		
2,000.0	1,925.0	1,973.8	1,959.9	11.8	9.4	-163.89	-187.2	-39.9	291.5	270.8	14.027		
2,100.0	2,017.9	2,070.9	2,056.0	12.2	9.8	-164.49	-200.2	-43.3	315.6	294.0	14.589		
2,200.0	2,110.9	2,167.9	2,152.1	12.6	10.2	-165.00	-213.2	-46.8	339.7	317.2	15.106		
2,300.0	2,203.9	2,264.9	2,248.2	13.1	10.6	-165.45	-226.2	-50.3	363.8	340.4	15.582		
2,400.0	2,296.9	2,361.9	2,344.3	13.6	10.9	-165.84	-239.2	-53.7	387.9	363.7	16.021		
2,500.0	2,389.8	2,458.9	2,440.3	14.0	11.3	-166.18	-252.2	-57.2	412.0	387.0	16.426		
2,600.0	2,482.8	2,555.9	2,536.4	14.5	11.7	-166.49	-265.2	-60.7	436.2	410.2	16.802		
2,700.0	2,575.8	2,652.9	2,632.5	15.0	12.1	-166.76	-278.2	-64.1	460.3	433.5	17.150		
2,800.0	2,668.7	2,750.0	2,728.6	15.5	12.5	-167.01	-291.2	-67.6	484.5	456.8	17.473		
2,900.0	2,761.7	2,847.0	2,824.6	16.0	12.9	-167.23	-304.2	-71.1	508.7	480.1	17.775		
3,000.0	2,854.7	2,944.0	2,920.7	16.5	13.3	-167.44	-317.2	-74.5	532.9	503.4	18.056		
3,100.0	2,947.7	3,041.0	3,016.8	17.1	13.7	-167.62	-330.2	-78.0	557.1	526.7	18.318		
3,200.0	3,040.6	3,138.0	3,112.9	17.6	14.2	-167.79	-343.2	-81.4	581.3	550.0	18.564		
3,300.0	3,133.6	3,235.0	3,209.0	18.2	14.6	-167.95	-356.2	-84.9	605.5	573.2	18.794		
3,400.0	3,226.6	3,332.0	3,305.0	18.8	15.0	-168.09	-369.2	-88.4	629.7	596.5	19.011		
3,500.0	3,319.5	3,429.1	3,401.1	19.4	15.4	-168.23	-382.2	-91.8	653.9	619.8	19.214		
3,600.0	3,412.5	3,526.1	3,497.2	20.0	15.8	-168.35	-395.2	-95.3	678.1	643.1	19.406		
3,700.0	3,505.5	3,623.1	3,593.3	20.6	16.2	-168.47	-408.2	-98.8	702.3	666.4	19.586		
3,800.0	3,598.5	3,720.1	3,689.3	21.2	16.6	-168.57	-421.2	-102.2	726.5	689.7	19.757		
3,900.0	3,691.4	3,817.1	3,785.4	21.9	17.0	-168.68	-434.2	-105.7	750.7	713.0	19.918		
4,000.0	3,784.4	3,914.1	3,881.5	22.5	17.4	-168.77	-447.2	-109.2	774.9	736.3	20.071		
4,100.0	3,877.4	4,011.2	3,977.6	23.1	17.8	-168.86	-460.2	-112.6	799.2	759.6	20.216		
4,200.0	3,970.3	4,108.2	4,073.7	23.8	18.2	-168.94	-473.2	-116.1	823.4	782.9	20.353		
4,300.0	4,063.3	4,205.2	4,169.7	24.4	18.6	-169.02	-486.2	-119.5	847.6	806.2	20.484		
4,400.0	4,156.3	4,302.2	4,265.8	25.0	19.1	-169.10	-499.2	-123.0	871.8	829.5	20.608		
4,500.0	4,249.3	4,399.2	4,361.9	25.7	19.5	-169.17	-512.2	-126.5	896.1	852.8	20.727		
4,600.0	4,342.2	4,496.2	4,458.0	26.3	19.9	-169.23	-525.2	-129.9	920.3	876.1	20.840		
4,700.0	4,435.2	4,593.2	4,554.0	27.0	20.3	-169.30	-538.2	-133.4	944.5	899.4	20.947		
4,800.0	4,528.2	4,690.3	4,650.1	27.6	20.7	-169.36	-551.2	-136.9	968.7	922.7	21.050		
4,900.0	4,621.1	4,787.3	4,746.2	28.2	21.1	-169.41	-564.2	-140.3	993.0	946.0	21.148		

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 Fed 0993-16-12W - Slot 16-12W
<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 Fed 0993-16-12W	<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	4,714.1	4,884.3	4,842.3	28.9	21.5	-169.47	-577.2	-143.8	1,017.2	969.3	21.243		
5,100.0	4,807.1	4,981.3	4,938.4	29.5	22.0	-169.52	-590.2	-147.2	1,041.4	992.6	21.333		
5,200.0	4,900.4	5,078.5	5,034.6	30.1	22.4	-169.62	-603.3	-150.7	1,064.8	1,015.0	21.404		
5,300.0	4,994.9	5,176.5	5,131.6	30.7	22.8	-169.70	-616.4	-154.2	1,084.9	1,034.2	21.386		
5,400.0	5,090.4	5,275.1	5,229.3	31.2	23.2	-169.74	-629.6	-157.7	1,101.6	1,049.9	21.300		
5,500.0	5,186.9	5,374.2	5,327.4	31.7	23.6	-169.73	-642.9	-161.3	1,115.0	1,062.3	21.159		
5,600.0	5,284.3	5,473.7	5,425.9	32.1	24.1	-169.67	-656.2	-164.8	1,124.9	1,071.2	20.968		
5,700.0	5,382.4	5,569.4	5,520.8	32.5	24.5	-169.58	-669.0	-168.2	1,131.4	1,076.9	20.748		
5,800.0	5,481.1	5,642.9	5,593.7	32.8	24.8	-169.51	-677.7	-170.5	1,136.0	1,080.8	20.590		
5,900.0	5,580.4	5,716.4	5,666.9	33.0	25.1	-169.46	-684.5	-172.4	1,139.5	1,083.7	20.431		
6,000.0	5,679.9	5,800.0	5,750.3	33.2	25.5	-169.41	-690.1	-173.9	1,142.0	1,085.5	20.231		
6,100.0	5,779.8	5,863.3	5,813.5	33.3	25.8	-169.39	-692.8	-174.6	1,143.2	1,086.4	20.142		
6,200.0	5,879.8	5,936.8	5,887.0	33.4	26.0	-169.37	-694.2	-175.0	1,143.4	1,086.5	20.122		
6,255.7	5,935.5	5,985.3	5,935.5	33.4	26.0	-169.37	-694.3	-175.0	1,143.4	1,086.6	20.134		
6,300.0	5,979.8	6,029.6	5,979.8	33.4	26.0	40.16	-694.3	-175.0	1,143.3	1,086.5	20.126		
6,400.0	6,079.8	6,129.6	6,079.8	33.4	26.0	40.16	-694.3	-175.0	1,143.3	1,086.5	20.117		
6,500.0	6,179.8	6,229.6	6,179.8	33.4	26.0	40.16	-694.3	-175.0	1,143.3	1,086.4	20.107		
6,600.0	6,279.8	6,329.6	6,279.8	33.4	26.0	40.16	-694.3	-175.0	1,143.3	1,086.4	20.097		
6,700.0	6,379.8	6,429.6	6,379.8	33.4	26.0	40.16	-694.3	-175.0	1,143.3	1,086.4	20.087		
6,800.0	6,479.8	6,529.6	6,479.8	33.5	26.1	40.16	-694.3	-175.0	1,143.3	1,086.3	20.076		
6,900.0	6,579.8	6,629.6	6,579.8	33.5	26.1	40.16	-694.3	-175.0	1,143.3	1,086.3	20.066		
7,000.0	6,679.8	6,729.6	6,679.8	33.5	26.1	40.16	-694.3	-175.0	1,143.3	1,086.3	20.055		
7,100.0	6,779.8	6,829.6	6,779.8	33.5	26.1	40.16	-694.3	-175.0	1,143.3	1,086.3	20.044		
7,200.0	6,879.8	6,929.6	6,879.8	33.5	26.1	40.16	-694.3	-175.0	1,143.3	1,086.2	20.033		
7,300.0	6,979.8	7,029.6	6,979.8	33.5	26.1	40.16	-694.3	-175.0	1,143.3	1,086.2	20.022		
7,400.0	7,079.8	7,129.6	7,079.8	33.5	26.2	40.16	-694.3	-175.0	1,143.3	1,086.2	20.011		
7,500.0	7,179.8	7,229.6	7,179.8	33.5	26.2	40.16	-694.3	-175.0	1,143.3	1,086.1	19.999		
7,600.0	7,279.8	7,329.6	7,279.8	33.5	26.2	40.16	-694.3	-175.0	1,143.3	1,086.1	19.988		
7,700.0	7,379.8	7,429.6	7,379.8	33.5	26.2	40.16	-694.3	-175.0	1,143.3	1,086.1	19.976		
7,800.0	7,479.8	7,529.6	7,479.8	33.5	26.2	40.16	-694.3	-175.0	1,143.3	1,086.0	19.964		
7,900.0	7,579.8	7,629.6	7,579.8	33.6	26.3	40.16	-694.3	-175.0	1,143.3	1,086.0	19.952		
8,000.0	7,679.8	7,729.6	7,679.8	33.6	26.3	40.16	-694.3	-175.0	1,143.3	1,086.0	19.940		
8,100.0	7,779.8	7,829.6	7,779.8	33.6	26.3	40.16	-694.3	-175.0	1,143.3	1,085.9	19.928		
8,110.0	7,789.8	7,839.6	7,789.8	33.6	26.3	40.16	-694.3	-175.0	1,143.3	1,085.9	19.927		
8,200.0	7,879.8	7,892.8	7,843.0	33.6	26.3	40.16	-694.3	-175.0	1,143.9	1,086.9	20.069		
8,300.0	7,979.8	7,892.8	7,843.0	33.6	26.3	40.16	-694.3	-175.0	1,151.4	1,095.7	20.667		
8,400.0	8,079.8	7,892.8	7,843.0	33.6	26.3	40.16	-694.3	-175.0	1,167.5	1,113.4	21.555		
8,500.0	8,179.8	7,892.8	7,843.0	33.6	26.3	40.16	-694.3	-175.0	1,191.9	1,139.4	22.736		
8,600.0	8,279.8	7,892.8	7,843.0	33.6	26.3	40.16	-694.3	-175.0	1,223.9	1,173.3	24.205		
8,700.0	8,379.8	7,892.8	7,843.0	33.6	26.3	40.16	-694.3	-175.0	1,263.0	1,214.4	25.956		
8,800.0	8,479.8	7,892.8	7,843.0	33.7	26.3	40.16	-694.3	-175.0	1,308.7	1,261.9	27.972		
8,900.0	8,579.8	7,892.8	7,843.0	33.7	26.3	40.16	-694.3	-175.0	1,360.1	1,315.1	30.233		
9,000.0	8,679.8	7,892.8	7,843.0	33.7	26.3	40.16	-694.3	-175.0	1,416.8	1,373.5	32.711		
9,007.2	8,687.0	7,892.8	7,843.0	33.7	26.3	40.16	-694.3	-175.0	1,421.1	1,377.9	32.898		

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 Fed 0993-16-12W - Slot 16-12W
<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 Fed 0993-16-12W	<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		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	43.84	57.8	55.5	80.1				
100.0	100.0	100.0	100.0	0.8	0.8	43.84	57.8	55.5	80.1	78.5	50.561	CC	
107.4	107.4	107.4	107.4	0.8	0.8	168.84	57.8	55.5	80.1	78.4	47.982		
200.0	200.0	200.0	200.0	1.3	1.4	168.84	57.8	55.5	80.1	77.4	29.313	ES	
300.0	300.0	299.3	299.3	2.3	2.2	170.58	56.6	57.3	82.6	78.4	19.823		
400.0	399.8	397.9	397.6	3.5	3.8	175.16	53.0	62.6	89.7	83.8	15.313		
500.0	499.4	495.3	494.4	3.8	4.9	-172.76	47.2	71.2	102.2	95.4	15.092	SF	
600.0	598.7	592.8	591.1	4.4	5.2	-161.16	39.6	82.4	119.7	111.9	15.460		
700.0	697.5	689.3	686.4	5.1	5.5	-153.74	31.3	94.2	140.8	132.0	16.096		
800.0	795.7	783.9	779.4	5.8	6.2	-147.96	20.4	108.2	165.8	156.0	16.869		
900.0	893.3	876.9	869.9	6.5	6.9	-143.25	6.9	124.5	194.7	183.9	17.885		
1,000.0	990.0	967.9	957.7	7.1	7.6	-139.34	-9.1	142.8	227.6	215.6	19.120		
1,100.0	1,085.8	1,056.9	1,042.5	7.7	8.3	-136.02	-27.2	162.8	264.1	251.2	20.507		
1,200.0	1,180.6	1,143.8	1,124.1	8.3	8.9	-133.16	-47.2	184.4	304.2	290.3	21.990		
1,300.0	1,274.2	1,228.4	1,202.6	8.9	9.5	-130.64	-69.0	207.4	347.7	332.9	23.518		
1,400.0	1,367.1	1,310.9	1,277.9	9.4	10.0	-129.62	-92.3	231.7	393.6	377.9	25.153		
1,500.0	1,460.1	1,395.9	1,354.5	9.7	10.3	-128.47	-118.1	258.2	440.9	424.4	26.820		
1,600.0	1,553.1	1,483.6	1,433.3	10.1	10.6	-127.48	-144.8	285.7	488.4	471.1	28.187		
1,700.0	1,646.1	1,571.3	1,512.2	10.5	10.9	-126.67	-171.6	313.1	536.0	517.7	29.363		
1,800.0	1,739.0	1,659.0	1,591.1	10.9	11.2	-125.98	-198.4	340.6	583.7	564.5	30.384		
1,900.0	1,832.0	1,746.7	1,670.0	11.3	11.5	-125.40	-225.1	368.1	631.4	611.2	31.272		
2,000.0	1,925.0	1,834.4	1,748.8	11.8	11.9	-124.90	-251.9	395.6	679.2	658.0	32.047		
2,100.0	2,017.9	1,922.1	1,827.7	12.2	12.2	-124.47	-278.7	423.0	727.0	704.8	32.726		
2,200.0	2,110.9	2,009.8	1,906.6	12.6	12.6	-124.09	-305.4	450.5	774.9	751.6	33.323		
2,300.0	2,203.9	2,097.5	1,985.4	13.1	13.0	-123.75	-332.2	478.0	822.7	798.4	33.849		
2,400.0	2,296.9	2,185.2	2,064.3	13.6	13.4	-123.45	-358.9	505.4	870.6	845.2	34.311		
2,500.0	2,389.8	2,272.9	2,143.2	14.0	13.8	-123.18	-385.7	532.9	918.5	892.1	34.721		
2,600.0	2,482.8	2,360.6	2,222.1	14.5	14.3	-122.94	-412.5	560.4	966.4	938.9	35.081		
2,700.0	2,575.8	2,448.3	2,300.9	15.0	14.8	-122.72	-439.2	587.9	1,014.4	985.7	35.427		
2,800.0	2,668.7	2,536.0	2,379.8	15.5	15.5	-122.53	-466.0	615.3	1,062.3	1,032.6	35.718		
2,900.0	2,761.7	2,623.7	2,458.7	16.0	16.2	-122.34	-492.8	642.8	1,110.3	1,079.4	35.983		
3,000.0	2,854.7	2,711.4	2,537.5	16.5	16.8	-122.18	-519.5	670.3	1,158.2	1,126.3	36.222		
3,100.0	2,947.7	2,799.1	2,616.4	17.1	17.5	-122.02	-546.3	697.8	1,206.2	1,173.1	36.440		
3,200.0	3,040.6	2,886.8	2,695.3	17.6	18.2	-121.88	-573.1	725.2	1,254.2	1,219.9	36.637		
3,300.0	3,133.6	2,974.5	2,774.1	18.2	19.0	-121.75	-599.8	752.7	1,302.1	1,266.8	36.818		
3,400.0	3,226.6	3,062.2	2,853.0	18.8	19.7	-121.63	-626.6	780.2	1,350.1	1,313.6	36.982		
3,500.0	3,319.5	3,149.9	2,931.9	19.4	20.4	-121.51	-653.3	807.6	1,398.1	1,360.5	37.133		
3,600.0	3,412.5	3,237.6	3,010.8	20.0	21.1	-121.41	-680.1	835.1	1,446.1	1,407.3	37.271		
3,700.0	3,505.5	3,325.3	3,089.6	20.6	21.8	-121.31	-706.9	862.6	1,494.1	1,454.1	37.399		
3,800.0	3,598.5	3,413.0	3,168.5	21.2	22.5	-121.21	-733.6	890.1	1,542.1	1,501.0	37.516		
3,900.0	3,691.4	3,500.8	3,247.4	21.9	23.2	-121.13	-760.4	917.5	1,590.1	1,547.8	37.625		
4,000.0	3,784.4	3,588.5	3,326.2	22.5	23.9	-121.04	-787.2	945.0	1,638.1	1,594.7	37.726		
4,100.0	3,877.4	3,676.2	3,405.1	23.1	24.7	-120.97	-813.9	972.5	1,686.1	1,641.5	37.819		
4,200.0	3,970.3	3,763.9	3,484.0	23.8	25.4	-120.89	-840.7	1,000.0	1,734.1	1,688.4	37.906		
4,300.0	4,063.3	3,851.6	3,562.8	24.4	26.1	-120.82	-867.5	1,027.4	1,782.1	1,735.2	37.986		
4,400.0	4,156.3	3,939.3	3,641.7	25.0	26.8	-120.76	-894.2	1,054.9	1,830.1	1,782.0	38.062		
4,500.0	4,249.3	4,027.0	3,720.6	25.7	27.5	-120.70	-921.0	1,082.4	1,878.1	1,828.9	38.132		
4,600.0	4,342.2	4,114.7	3,799.5	26.3	28.2	-120.64	-947.8	1,109.8	1,926.2	1,875.7	38.198		
4,700.0	4,435.2	4,202.4	3,878.3	27.0	29.0	-120.58	-974.5	1,137.3	1,974.2	1,922.6	38.260		
4,800.0	4,528.2	4,290.1	3,957.2	27.6	29.7	-120.53	-1,001.3	1,164.8	2,022.2	1,969.4	38.317		
4,900.0	4,621.1	4,377.8	4,036.1	28.2	30.4	-120.47	-1,028.0	1,192.3	2,070.2	2,016.3	38.372		

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 Fed 0993-16-12W - Slot 16-12W
<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 Fed 0993-16-12W	<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)		
5,000.0	4,714.1	4,465.5	4,114.9	28.9	31.1	-120.43	-1,054.8	1,219.7	2,118.2	2,063.1	38.423	
5,100.0	4,807.1	4,553.2	4,193.8	29.5	31.8	-120.38	-1,081.6	1,247.2	2,166.3	2,109.9	38.471	
5,200.0	4,900.4	4,641.1	4,272.9	30.1	32.6	-120.99	-1,108.4	1,274.7	2,213.9	2,156.4	38.521	
5,300.0	4,994.9	4,729.7	4,352.5	30.7	33.3	-121.73	-1,135.4	1,302.5	2,259.9	2,201.3	38.551	
5,400.0	5,090.4	4,818.9	4,432.8	31.2	34.0	-122.35	-1,162.7	1,330.4	2,304.4	2,244.7	38.573	
5,500.0	5,186.9	4,908.6	4,513.4	31.7	34.8	-122.85	-1,190.0	1,358.5	2,347.2	2,286.4	38.593	
5,600.0	5,284.3	4,998.7	4,594.5	32.1	35.5	-123.25	-1,217.5	1,386.8	2,388.4	2,326.5	38.613	
5,700.0	5,382.4	5,089.1	4,675.7	32.5	36.2	-123.55	-1,245.1	1,415.1	2,427.9	2,365.1	38.634	
5,800.0	5,481.1	5,179.6	4,757.2	32.8	37.0	-123.76	-1,272.7	1,443.4	2,465.8	2,402.0	38.659	
5,900.0	5,580.4	5,270.2	4,838.7	33.0	37.7	-123.88	-1,300.4	1,471.8	2,502.0	2,437.3	38.690	
6,000.0	5,679.9	5,362.1	4,921.3	33.2	38.5	-123.91	-1,328.4	1,500.6	2,536.6	2,471.1	38.723	
6,100.0	5,779.8	5,455.5	5,004.8	33.3	41.1	-122.31	-1,428.0	1,602.8	2,564.2	2,494.5	36.821	
6,200.0	5,879.8	5,549.0	5,088.3	33.4	42.5	-121.41	-1,483.3	1,659.6	2,577.7	2,505.5	35.713	
6,300.0	5,979.8	5,642.5	5,171.8	33.4	42.8	88.24	-1,488.9	1,665.4	2,578.9	2,506.4	35.560	
6,400.0	6,079.8	5,735.9	5,255.3	33.4	42.8	88.24	-1,488.9	1,665.4	2,578.9	2,506.4	35.539	
6,500.0	6,179.8	5,829.4	5,338.8	33.4	42.8	88.24	-1,488.9	1,665.4	2,578.9	2,506.4	35.531	
6,600.0	6,279.8	5,922.9	5,422.3	33.4	42.8	88.24	-1,488.9	1,665.4	2,578.9	2,506.3	35.523	
6,700.0	6,379.8	6,016.4	5,505.8	33.4	42.8	88.24	-1,488.9	1,665.4	2,578.9	2,506.3	35.514	
6,800.0	6,479.8	6,109.9	5,589.3	33.5	42.8	88.24	-1,488.9	1,665.4	2,578.9	2,506.3	35.506	
6,900.0	6,579.8	6,202.4	5,672.8	33.5	42.9	88.24	-1,488.9	1,665.4	2,578.9	2,506.3	35.497	
7,000.0	6,679.8	6,295.9	5,755.3	33.5	42.9	88.24	-1,488.9	1,665.4	2,578.9	2,506.3	35.488	
7,100.0	6,779.8	6,388.4	5,837.8	33.5	42.9	88.24	-1,488.9	1,665.4	2,578.9	2,506.3	35.479	
7,200.0	6,879.8	6,480.9	5,920.3	33.5	42.9	88.24	-1,488.9	1,665.4	2,578.9	2,506.2	35.469	
7,300.0	6,979.8	6,573.4	6,002.8	33.5	42.9	88.24	-1,488.9	1,665.4	2,578.9	2,506.2	35.460	
7,400.0	7,079.8	6,665.9	6,085.3	33.5	42.9	88.24	-1,488.9	1,665.4	2,578.9	2,506.2	35.450	
7,500.0	7,179.8	6,758.4	6,167.8	33.5	42.9	88.24	-1,488.9	1,665.4	2,578.9	2,506.2	35.440	
7,600.0	7,279.8	6,850.9	6,250.3	33.5	43.0	88.24	-1,488.9	1,665.4	2,578.9	2,506.2	35.430	
7,700.0	7,379.8	6,942.4	6,332.8	33.5	43.0	88.24	-1,488.9	1,665.4	2,578.9	2,506.1	35.420	
7,800.0	7,479.8	7,034.9	6,415.3	33.5	43.0	88.24	-1,488.9	1,665.4	2,578.9	2,506.1	35.409	
7,900.0	7,579.8	7,127.4	6,497.8	33.6	43.0	88.24	-1,488.9	1,665.4	2,578.9	2,506.1	35.399	
8,000.0	7,679.8	7,219.9	6,580.3	33.6	43.0	88.24	-1,488.9	1,665.4	2,578.9	2,506.1	35.388	
8,100.0	7,779.8	7,312.4	6,662.8	33.6	43.0	88.24	-1,488.9	1,665.4	2,578.9	2,506.0	35.377	
8,107.4	7,787.2	7,320.2	6,670.6	33.6	43.0	88.24	-1,488.9	1,665.4	2,578.9	2,506.0	35.376	
8,200.0	7,879.8	7,404.9	6,745.3	33.6	43.0	88.24	-1,488.9	1,665.4	2,579.0	2,506.1	35.361	
8,300.0	7,979.8	7,497.4	6,827.8	33.6	43.0	88.24	-1,488.9	1,665.4	2,581.8	2,508.8	35.374	
8,400.0	8,079.8	7,590.9	6,910.3	33.6	43.0	88.24	-1,488.9	1,665.4	2,588.5	2,515.5	35.480	
8,500.0	8,179.8	7,683.4	6,992.8	33.6	43.0	88.24	-1,488.9	1,665.4	2,598.9	2,526.1	35.679	
8,600.0	8,279.8	7,775.9	7,075.3	33.6	43.0	88.24	-1,488.9	1,665.4	2,613.2	2,540.6	35.969	
8,700.0	8,379.8	7,868.4	7,157.8	33.6	43.0	88.24	-1,488.9	1,665.4	2,631.2	2,558.8	36.348	
8,800.0	8,479.8	7,960.9	7,240.3	33.7	43.0	88.24	-1,488.9	1,665.4	2,652.8	2,580.8	36.814	
8,900.0	8,579.8	8,053.4	7,322.8	33.7	43.0	88.24	-1,488.9	1,665.4	2,678.0	2,606.4	37.366	
9,000.0	8,679.8	8,145.9	7,405.3	33.7	43.0	88.24	-1,488.9	1,665.4	2,706.7	2,635.5	38.000	
9,007.2	8,687.0	8,153.7	7,413.1	33.7	43.0	88.24	-1,488.9	1,665.4	2,708.9	2,637.7	38.049	

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 Fed 0993-16-12W - Slot 16-12W
<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 Fed 0993-16-12W	<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 +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	43.77	50.6	48.4	70.0			
100.0	100.0	100.0	100.0	0.8	0.8	43.77	50.6	48.4	70.0	68.4	44.198	CC
107.4	107.4	107.4	107.4	0.8	0.8	168.77	50.6	48.4	70.0	68.3	41.943	
200.0	200.0	200.0	200.0	1.3	1.4	168.77	50.6	48.4	70.0	67.3	25.625	ES
300.0	300.0	300.0	300.0	2.3	1.7	169.52	50.2	48.8	72.1	68.1	18.251	
400.0	399.8	399.7	399.6	3.5	2.9	173.47	47.0	51.8	77.6	72.2	14.181	
500.0	499.4	498.5	498.0	3.8	4.3	-174.30	40.9	57.8	87.5	81.3	14.169	
600.0	598.7	596.1	594.8	4.4	5.3	-161.70	31.8	66.6	101.9	94.7	14.086	SF
700.0	697.5	692.3	689.6	5.1	6.2	-152.27	20.0	78.0	121.1	112.6	14.329	
800.0	795.7	786.9	782.0	5.8	7.0	-145.05	5.5	91.9	144.9	135.3	15.101	
900.0	893.3	879.6	871.7	6.5	7.7	-139.44	-11.3	108.1	173.2	162.5	16.232	
1,000.0	990.0	970.2	958.4	7.1	8.4	-134.99	-30.2	126.4	205.7	194.0	17.601	
1,100.0	1,085.8	1,058.6	1,042.0	7.7	9.0	-131.39	-51.0	146.5	242.2	229.5	19.123	
1,200.0	1,180.6	1,144.7	1,122.2	8.3	9.5	-128.42	-73.5	168.2	282.4	268.8	20.736	
1,300.0	1,274.2	1,228.4	1,198.9	8.9	10.1	-125.89	-97.4	191.3	326.2	311.6	22.388	
1,400.0	1,367.1	1,309.8	1,272.4	9.4	10.6	-124.96	-122.6	215.6	372.6	357.1	24.094	
1,500.0	1,460.1	1,389.2	1,342.8	9.7	11.0	-123.90	-148.9	241.1	420.9	404.5	25.736	
1,600.0	1,553.1	1,466.4	1,410.1	10.1	11.4	-122.76	-176.2	267.4	471.0	453.8	27.393	
1,700.0	1,646.1	1,550.9	1,482.8	10.5	11.7	-121.57	-207.2	297.3	522.3	504.2	28.805	
1,800.0	1,739.0	1,636.2	1,556.3	10.9	11.9	-120.58	-238.4	327.5	573.8	554.7	30.016	
1,900.0	1,832.0	1,721.6	1,629.8	11.3	12.2	-119.75	-269.6	357.6	625.4	605.2	31.069	
2,000.0	1,925.0	1,806.9	1,703.3	11.8	12.5	-119.05	-300.9	387.8	677.0	655.9	31.991	
2,100.0	2,017.9	1,892.3	1,776.7	12.2	12.8	-118.45	-332.1	418.0	728.7	706.5	32.798	
2,200.0	2,110.9	1,977.6	1,850.2	12.6	13.1	-117.92	-363.3	448.1	780.5	757.2	33.507	
2,300.0	2,203.9	2,063.0	1,923.7	13.1	13.5	-117.46	-394.6	478.3	832.3	807.9	34.133	
2,400.0	2,296.9	2,148.3	1,997.2	13.6	13.8	-117.06	-425.8	508.5	884.2	858.7	34.685	
2,500.0	2,389.8	2,233.7	2,070.7	14.0	14.3	-116.70	-457.0	538.6	936.0	909.4	35.205	
2,600.0	2,482.8	2,319.0	2,144.2	14.5	15.1	-116.37	-488.3	568.8	987.9	960.2	35.638	
2,700.0	2,575.8	2,404.4	2,217.6	15.0	15.9	-116.08	-519.5	598.9	1,039.9	1,011.0	36.035	
2,800.0	2,668.7	2,489.7	2,291.1	15.5	16.7	-115.82	-550.7	629.1	1,091.8	1,061.8	36.393	
2,900.0	2,761.7	2,575.1	2,364.6	16.0	17.5	-115.58	-582.0	659.3	1,143.7	1,112.6	36.716	
3,000.0	2,854.7	2,660.5	2,438.1	16.5	18.4	-115.36	-613.2	689.4	1,195.7	1,163.4	37.009	
3,100.0	2,947.7	2,745.8	2,511.6	17.1	19.2	-115.16	-644.4	719.6	1,247.7	1,214.2	37.275	
3,200.0	3,040.6	2,831.2	2,585.0	17.6	20.0	-114.98	-675.7	749.8	1,299.7	1,265.0	37.518	
3,300.0	3,133.6	2,916.5	2,658.5	18.2	20.8	-114.81	-706.9	779.9	1,351.7	1,315.9	37.741	
3,400.0	3,226.6	3,027.3	2,753.9	18.8	21.9	-114.59	-747.9	818.6	1,403.4	1,366.0	37.553	
3,500.0	3,319.5	3,176.8	2,882.7	19.4	23.4	-114.11	-807.9	865.0	1,451.6	1,412.1	36.750	
3,600.0	3,412.5	3,265.0	2,958.6	20.0	24.2	-113.78	-844.7	890.7	1,498.3	1,457.6	36.799	
3,700.0	3,505.5	3,353.1	3,034.5	20.6	25.0	-113.48	-881.4	916.3	1,545.0	1,503.1	36.839	
3,800.0	3,598.5	3,441.2	3,110.3	21.2	25.9	-113.20	-918.2	942.0	1,591.8	1,548.6	36.874	
3,900.0	3,691.4	3,529.3	3,186.2	21.9	26.7	-112.93	-955.0	967.7	1,638.6	1,594.2	36.904	
4,000.0	3,784.4	3,617.5	3,262.1	22.5	27.5	-112.68	-991.7	993.3	1,685.4	1,639.7	36.931	
4,100.0	3,877.4	3,705.6	3,338.0	23.1	28.4	-112.44	-1,028.5	1,019.0	1,732.2	1,685.3	36.954	
4,200.0	3,970.3	3,793.7	3,413.8	23.8	29.2	-112.21	-1,065.2	1,044.6	1,779.1	1,731.0	36.975	
4,300.0	4,063.3	3,881.8	3,489.7	24.4	30.0	-111.99	-1,102.0	1,070.3	1,826.0	1,776.6	36.993	
4,400.0	4,156.3	3,970.0	3,565.6	25.0	30.8	-111.79	-1,138.8	1,095.9	1,872.9	1,822.3	37.010	
4,500.0	4,249.3	4,058.1	3,641.4	25.7	31.7	-111.60	-1,175.5	1,121.6	1,919.8	1,867.9	37.024	
4,600.0	4,342.2	4,146.2	3,717.3	26.3	32.5	-111.41	-1,212.3	1,147.3	1,966.7	1,913.6	37.036	
4,700.0	4,435.2	4,234.3	3,793.2	27.0	33.3	-111.23	-1,249.0	1,172.9	2,013.7	1,959.3	37.047	
4,800.0	4,528.2	4,322.5	3,869.0	27.6	34.2	-111.06	-1,285.8	1,198.6	2,060.6	2,005.0	37.057	
4,900.0	4,621.1	4,410.6	3,944.9	28.2	35.0	-110.90	-1,322.6	1,224.2	2,107.6	2,050.8	37.065	

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 Fed 0993-16-12W - Slot 16-12W
<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 Fed 0993-16-12W	<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		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	4,714.1	4,498.7	4,020.8	28.9	35.8	-110.75	-1,359.3	1,249.9	2,154.6	2,096.5	37.073	
5,100.0	4,807.1	4,586.8	4,096.7	29.5	36.7	-110.60	-1,396.1	1,275.5	2,201.6	2,142.2	37.079	
5,200.0	4,900.4	4,675.1	4,172.6	30.1	37.5	-111.16	-1,432.9	1,301.2	2,248.3	2,187.7	37.093	
5,300.0	4,994.9	4,763.6	4,248.8	30.7	38.4	-111.86	-1,469.8	1,327.0	2,294.0	2,232.2	37.111	
5,400.0	5,090.4	4,852.3	4,325.2	31.2	39.2	-112.46	-1,506.8	1,352.8	2,338.6	2,275.6	37.140	
5,500.0	5,186.9	4,941.1	4,401.7	31.7	40.0	-112.96	-1,543.9	1,378.7	2,382.0	2,317.9	37.184	
5,600.0	5,284.3	5,030.0	4,478.2	32.1	40.9	-113.35	-1,580.9	1,404.6	2,424.3	2,359.2	37.243	
5,700.0	5,382.4	5,118.7	4,554.6	32.5	41.7	-113.66	-1,617.9	1,430.4	2,465.5	2,399.5	37.318	
5,800.0	5,481.1	5,207.2	4,630.7	32.8	42.6	-113.89	-1,654.8	1,456.2	2,505.7	2,438.7	37.412	
5,900.0	5,580.4	5,295.3	4,706.6	33.0	43.4	-114.04	-1,691.6	1,481.8	2,544.8	2,476.9	37.526	
6,000.0	5,679.9	5,383.5	4,782.5	33.2	44.0	-114.11	-1,728.3	1,507.6	2,583.9	2,515.0	37.650	
6,100.0	5,779.8	5,471.2	4,858.4	33.3	44.2	-114.13	-1,765.0	1,533.4	2,623.0	2,554.1	37.783	
6,200.0	5,879.8	5,558.9	4,934.3	33.3	44.2	-114.13	-1,801.7	1,559.5	2,662.1	2,593.2	37.926	
6,300.0	5,979.8	5,646.6	5,010.2	33.4	44.6	-114.16	-1,838.4	1,585.6	2,701.2	2,632.3	38.079	
6,400.0	6,079.8	5,734.3	5,086.1	33.4	44.6	-114.16	-1,875.1	1,611.7	2,740.3	2,671.4	38.242	
6,500.0	6,179.8	5,822.0	5,162.0	33.4	44.6	-114.16	-1,911.8	1,637.8	2,779.4	2,710.5	38.415	
6,600.0	6,279.8	5,909.7	5,237.9	33.4	44.6	-114.16	-1,948.5	1,663.9	2,818.5	2,749.6	38.598	
6,700.0	6,379.8	5,997.4	5,313.8	33.4	44.6	-114.16	-1,985.2	1,690.0	2,857.6	2,788.7	38.791	
6,800.0	6,479.8	6,085.1	5,389.7	33.5	44.6	-114.16	-2,021.9	1,716.1	2,896.7	2,827.8	38.994	
6,900.0	6,579.8	6,172.8	5,465.6	33.5	44.6	-114.16	-2,058.6	1,742.2	2,935.8	2,866.9	39.207	
7,000.0	6,679.8	6,260.5	5,541.5	33.5	44.6	-114.16	-2,095.3	1,768.3	2,974.9	2,906.0	39.430	
7,100.0	6,779.8	6,348.2	5,617.4	33.5	44.6	-114.16	-2,132.0	1,794.4	3,014.0	2,945.1	39.663	
7,200.0	6,879.8	6,435.9	5,693.3	33.5	44.6	-114.16	-2,168.7	1,820.5	3,053.1	2,984.2	39.916	
7,300.0	6,979.8	6,523.6	5,769.2	33.5	44.6	-114.16	-2,205.4	1,846.6	3,092.2	3,023.3	40.189	
7,400.0	7,079.8	6,611.3	5,845.1	33.5	44.6	-114.16	-2,242.1	1,872.7	3,131.3	3,062.4	40.482	
7,500.0	7,179.8	6,699.0	5,921.0	33.5	44.6	-114.16	-2,278.8	1,898.8	3,170.4	3,101.5	40.795	
7,600.0	7,279.8	6,786.7	5,996.9	33.5	44.6	-114.16	-2,315.5	1,924.9	3,209.5	3,140.6	41.128	
7,700.0	7,379.8	6,874.4	6,072.8	33.5	44.6	-114.16	-2,352.2	1,951.0	3,248.6	3,179.7	41.481	
7,800.0	7,479.8	6,962.1	6,148.7	33.5	44.6	-114.16	-2,388.9	1,977.1	3,287.7	3,218.8	41.854	
7,900.0	7,579.8	7,049.8	6,224.6	33.6	44.6	-114.16	-2,425.6	2,003.2	3,326.8	3,257.9	42.247	
8,000.0	7,679.8	7,137.5	6,300.5	33.6	44.6	-114.16	-2,462.3	2,029.3	3,365.9	3,297.0	42.660	
8,100.0	7,779.8	7,225.2	6,376.4	33.6	44.6	-114.16	-2,499.0	2,055.4	3,405.0	3,336.1	43.093	
8,200.0	7,879.8	7,312.9	6,452.3	33.6	44.6	-114.16	-2,535.7	2,081.5	3,444.1	3,375.2	43.546	
8,300.0	7,979.8	7,400.6	6,528.2	33.6	44.6	-114.16	-2,572.4	2,107.6	3,483.2	3,414.3	44.019	
8,400.0	8,079.8	7,488.3	6,604.1	33.6	44.6	-114.16	-2,609.1	2,133.7	3,522.3	3,453.4	44.512	
8,500.0	8,179.8	7,576.0	6,679.9	33.6	44.6	-114.16	-2,645.8	2,159.8	3,561.4	3,492.5	45.025	
8,600.0	8,279.8	7,663.7	6,755.8	33.6	44.6	-114.16	-2,682.5	2,185.9	3,600.5	3,531.6	45.558	
8,700.0	8,379.8	7,751.4	6,831.7	33.6	44.6	-114.16	-2,719.2	2,212.0	3,639.6	3,570.7	46.111	
8,800.0	8,479.8	7,839.1	6,907.6	33.7	44.6	-114.16	-2,755.9	2,238.1	3,678.7	3,609.8	46.684	
8,900.0	8,579.8	7,926.8	6,983.5	33.7	44.6	-114.16	-2,792.6	2,264.2	3,717.8	3,648.9	47.277	
9,000.0	8,679.8	8,014.5	7,059.4	33.7	44.6	-114.16	-2,829.3	2,290.3	3,756.9	3,688.0	47.890	
9,007.2	8,687.0	8,021.7	7,066.6	33.7	44.6	-114.16	-2,836.5	2,297.5	3,764.1	3,695.2	47.927	

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 Fed 0993-16-12W - Slot 16-12W
<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 Fed 0993-16-12W	<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 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	43.70	7.2	6.9	10.0			
100.0	100.0	100.0	100.0	0.8	0.8	43.70	7.2	6.9	10.0	8.4	6.312	CC
107.4	107.4	107.4	107.4	0.8	0.8	168.70	7.2	6.9	10.0	8.3	5.990	
200.0	200.0	200.0	200.0	1.3	1.4	168.72	7.2	6.9	10.0	7.3	3.665	
300.0	300.0	300.3	300.3	2.3	1.7	172.41	6.4	6.5	11.2	7.2	2.775	
400.0	399.8	400.7	400.5	3.5	3.2	-174.86	1.8	4.5	12.4	6.1	1.968	Level 2, ES, SF
500.0	499.4	501.0	500.4	3.8	4.5	-150.95	-6.8	0.6	14.4	7.5	2.098	Level 1
600.0	598.7	601.2	599.6	4.4	5.5	-128.97	-19.4	-5.0	17.1	10.1	2.459	Level 1
700.0	697.5	701.2	698.0	5.1	6.4	-111.85	-35.9	-12.4	20.4	13.5	2.957	
800.0	795.7	801.1	795.4	5.8	7.2	-98.00	-56.3	-21.5	24.5	17.3	3.416	
900.0	893.3	900.7	891.4	6.5	8.0	-86.56	-80.4	-32.3	29.2	21.3	3.676	
1,000.0	990.0	1,000.0	985.9	7.1	8.7	-76.99	-108.2	-44.8	34.7	25.5	3.770	
1,100.0	1,085.8	1,099.1	1,078.7	7.7	9.3	-68.91	-139.7	-58.8	41.0	30.2	3.802	
1,200.0	1,180.6	1,197.7	1,169.7	8.3	10.0	-62.04	-174.6	-74.5	48.0	35.5	3.840	
1,300.0	1,274.2	1,296.2	1,258.7	8.9	10.4	-56.18	-213.0	-91.6	55.8	41.6	3.933	
1,400.0	1,367.1	1,395.8	1,348.1	9.4	10.7	-52.43	-253.2	-109.6	63.8	48.1	4.072	
1,500.0	1,460.1	1,495.4	1,437.5	9.7	11.0	-49.53	-293.3	-127.5	71.9	54.9	4.236	
1,600.0	1,553.1	1,595.0	1,526.8	10.1	11.4	-47.23	-333.4	-145.5	80.2	62.0	4.401	
1,700.0	1,646.1	1,694.6	1,616.2	10.5	11.7	-45.36	-373.6	-163.5	88.7	69.2	4.561	
1,800.0	1,739.0	1,794.2	1,705.6	10.9	12.1	-43.81	-413.7	-181.4	97.1	76.5	4.713	
1,900.0	1,832.0	1,893.8	1,795.0	11.3	12.5	-42.52	-453.8	-199.4	105.7	83.9	4.855	
2,000.0	1,925.0	1,993.5	1,884.4	11.8	12.9	-41.41	-493.9	-217.3	114.3	91.4	4.987	
2,100.0	2,017.9	2,093.1	1,973.7	12.2	13.3	-40.47	-534.1	-235.3	122.9	98.9	5.110	
2,200.0	2,110.9	2,192.7	2,063.1	12.6	13.7	-39.64	-574.2	-253.2	131.6	106.4	5.224	
2,300.0	2,203.9	2,292.3	2,152.5	13.1	14.1	-38.92	-614.3	-271.2	140.3	114.0	5.329	
2,400.0	2,296.9	2,391.9	2,241.9	13.6	14.5	-38.29	-654.5	-289.1	149.0	121.5	5.425	
2,500.0	2,389.8	2,491.5	2,331.3	14.0	14.9	-37.72	-694.6	-307.1	157.7	129.1	5.515	
2,600.0	2,482.8	2,591.1	2,420.6	14.5	15.4	-37.21	-734.7	-325.1	166.5	136.7	5.598	
2,700.0	2,575.8	2,690.7	2,510.0	15.0	16.1	-36.76	-774.9	-343.0	175.2	144.3	5.676	
2,800.0	2,668.7	2,790.3	2,599.4	15.5	16.9	-36.34	-815.0	-361.0	184.0	151.9	5.747	
2,900.0	2,761.7	2,889.9	2,688.8	16.0	17.6	-35.97	-855.1	-378.9	192.7	159.6	5.813	
3,000.0	2,854.7	2,989.5	2,778.2	16.5	18.4	-35.62	-895.3	-396.9	201.5	167.2	5.874	
3,100.0	2,947.7	3,089.1	2,867.5	17.1	19.2	-35.31	-935.4	-414.8	210.3	174.8	5.932	
3,200.0	3,040.6	3,188.7	2,956.9	17.6	19.9	-35.02	-975.5	-432.8	219.1	182.5	5.986	
3,300.0	3,133.6	3,288.3	3,046.3	18.2	20.7	-34.75	-1,015.7	-450.8	227.9	190.1	6.036	
3,400.0	3,226.6	3,388.0	3,135.7	18.8	21.4	-34.51	-1,055.8	-468.7	236.7	197.7	6.083	
3,500.0	3,319.5	3,487.6	3,225.0	19.4	22.2	-34.28	-1,095.9	-486.7	245.5	205.4	6.127	
3,600.0	3,412.5	3,587.2	3,314.4	20.0	23.0	-34.06	-1,136.1	-504.6	254.3	213.0	6.168	
3,700.0	3,505.5	3,686.8	3,403.8	20.6	23.7	-33.87	-1,176.2	-522.6	263.1	220.7	6.207	
3,800.0	3,598.5	3,786.4	3,493.2	21.2	24.5	-33.68	-1,216.3	-540.5	271.9	228.3	6.244	
3,900.0	3,691.4	3,886.0	3,582.6	21.9	25.3	-33.51	-1,256.4	-558.5	280.7	236.0	6.278	
4,000.0	3,784.4	3,985.6	3,671.9	22.5	26.0	-33.34	-1,296.6	-576.4	289.5	243.6	6.311	
4,100.0	3,877.4	4,085.2	3,761.3	23.1	26.8	-33.19	-1,336.7	-594.4	298.3	251.3	6.341	
4,200.0	3,970.3	4,184.8	3,850.7	23.8	27.6	-33.04	-1,376.8	-612.4	307.1	258.9	6.371	
4,300.0	4,063.3	4,284.4	3,940.1	24.4	28.3	-32.90	-1,417.0	-630.3	316.0	266.6	6.398	
4,400.0	4,156.3	4,384.0	4,029.5	25.0	29.1	-32.78	-1,457.1	-648.3	324.8	274.2	6.424	
4,500.0	4,249.3	4,483.6	4,118.8	25.7	29.9	-32.65	-1,497.2	-666.2	333.6	281.9	6.449	
4,600.0	4,342.2	4,583.2	4,208.2	26.3	30.6	-32.54	-1,537.4	-684.2	342.4	289.5	6.473	
4,700.0	4,435.2	4,682.9	4,297.6	27.0	31.4	-32.42	-1,577.5	-702.1	351.3	297.2	6.495	
4,800.0	4,528.2	4,782.5	4,387.0	27.6	32.2	-32.32	-1,617.6	-720.1	360.1	304.8	6.517	
4,900.0	4,621.1	4,882.1	4,476.4	28.2	32.9	-32.22	-1,657.8	-738.0	368.9	312.5	6.537	

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 Fed 0993-16-12W - Slot 16-12W
<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 Fed 0993-16-12W	<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
Measured Depth (usft)	Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning
	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Offset	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		
5,000.0	4,714.1	4,981.7	4,565.7	28.9	33.7	-32.12	-1,697.9	-756.0	377.8	320.1	6.557		
5,100.0	4,807.1	5,081.3	4,655.1	29.5	34.5	-32.03	-1,738.0	-774.0	386.6	327.8	6.575		
5,200.0	4,900.4	5,180.8	4,744.4	30.1	35.2	-31.95	-1,778.1	-791.9	396.2	336.3	6.609		
5,300.0	4,994.9	5,280.0	4,833.4	30.7	36.0	-31.68	-1,818.1	-809.8	408.7	347.6	6.687		
5,400.0	5,090.4	5,390.4	4,932.9	31.2	36.8	-31.20	-1,861.7	-829.3	423.3	360.9	6.782		
5,500.0	5,186.9	5,509.5	5,042.7	31.7	37.6	-30.74	-1,904.1	-848.2	436.7	372.9	6.847		
5,600.0	5,284.3	5,629.8	5,155.7	32.1	38.3	-30.36	-1,941.5	-865.0	448.5	383.5	6.899		
5,700.0	5,382.4	5,751.1	5,271.7	32.5	39.0	-30.06	-1,973.8	-879.4	458.5	392.4	6.944		
5,800.0	5,481.1	5,873.1	5,390.1	32.8	39.5	-29.82	-2,000.5	-891.4	466.7	399.8	6.982		
5,900.0	5,580.4	5,995.8	5,510.7	33.0	39.9	-29.64	-2,021.6	-900.8	473.1	405.6	7.015		
6,000.0	5,679.9	6,119.0	5,632.7	33.2	40.2	-29.52	-2,036.8	-907.6	477.6	409.8	7.045		
6,100.0	5,779.8	6,242.6	5,755.8	33.3	40.4	-29.46	-2,045.9	-911.7	480.3	412.4	7.074		
6,200.0	5,879.8	6,366.3	5,879.5	33.4	40.5	-29.44	-2,049.1	-913.1	481.1	413.7	7.135		
6,280.5	5,960.3	6,447.1	5,960.3	33.4	40.5	-29.45	-2,049.1	-913.1	481.0	413.5	7.130		
6,300.0	5,979.8	6,466.6	5,979.8	33.4	40.5	-179.91	-2,049.1	-913.1	481.1	413.6	7.130		
6,400.0	6,079.8	6,566.6	6,079.8	33.4	40.5	-179.91	-2,049.1	-913.1	481.1	413.6	7.127		
6,500.0	6,179.8	6,666.6	6,179.8	33.4	40.5	-179.91	-2,049.1	-913.1	481.1	413.5	7.124		
6,600.0	6,279.8	6,766.6	6,279.8	33.4	40.5	-179.91	-2,049.1	-913.1	481.1	413.5	7.121		
6,700.0	6,379.8	6,866.6	6,379.8	33.4	40.5	-179.91	-2,049.1	-913.1	481.1	413.5	7.118		
6,800.0	6,479.8	6,966.6	6,479.8	33.5	40.6	-179.91	-2,049.1	-913.1	481.1	413.5	7.115		
6,900.0	6,579.8	7,066.6	6,579.8	33.5	40.6	-179.91	-2,049.1	-913.1	481.1	413.4	7.111		
7,000.0	6,679.8	7,166.6	6,679.8	33.5	40.6	-179.91	-2,049.1	-913.1	481.1	413.4	7.108		
7,100.0	6,779.8	7,266.6	6,779.8	33.5	40.6	-179.91	-2,049.1	-913.1	481.1	413.4	7.105		
7,200.0	6,879.8	7,366.6	6,879.8	33.5	40.6	-179.91	-2,049.1	-913.1	481.1	413.3	7.101		
7,300.0	6,979.8	7,466.6	6,979.8	33.5	40.6	-179.91	-2,049.1	-913.1	481.1	413.3	7.098		
7,400.0	7,079.8	7,566.6	7,079.8	33.5	40.6	-179.91	-2,049.1	-913.1	481.1	413.3	7.095		
7,500.0	7,179.8	7,666.6	7,179.8	33.5	40.6	-179.91	-2,049.1	-913.1	481.1	413.2	7.091		
7,600.0	7,279.8	7,766.6	7,279.8	33.5	40.6	-179.91	-2,049.1	-913.1	481.1	413.2	7.088		
7,700.0	7,379.8	7,866.6	7,379.8	33.5	40.6	-179.91	-2,049.1	-913.1	481.1	413.2	7.084		
7,800.0	7,479.8	7,966.6	7,479.8	33.5	40.6	-179.91	-2,049.1	-913.1	481.1	413.1	7.080		
7,900.0	7,579.8	8,066.6	7,579.8	33.6	40.6	-179.91	-2,049.1	-913.1	481.1	413.1	7.077		
8,000.0	7,679.8	8,166.6	7,679.8	33.6	40.6	-179.91	-2,049.1	-913.1	481.1	413.1	7.073		
8,100.0	7,779.8	8,266.6	7,779.8	33.6	40.6	-179.91	-2,049.1	-913.1	481.1	413.0	7.069		
8,110.0	7,789.8	8,276.6	7,789.8	33.6	40.6	-179.91	-2,049.1	-913.1	481.1	413.0	7.069		
8,200.0	7,879.8	8,304.8	7,818.0	33.6	40.6	-179.91	-2,049.1	-913.1	485.0	415.0	6.929		
8,300.0	7,979.8	8,304.8	7,818.0	33.6	40.6	-179.91	-2,049.1	-913.1	507.5	436.4	7.134		
8,400.0	8,079.8	8,304.8	7,818.0	33.6	40.6	-179.91	-2,049.1	-913.1	547.7	477.4	7.791		
8,500.0	8,179.8	8,304.8	7,818.0	33.6	40.6	-179.91	-2,049.1	-913.1	601.9	533.7	8.818		
8,600.0	8,279.8	8,304.8	7,818.0	33.6	40.6	-179.91	-2,049.1	-913.1	666.8	601.1	10.140		
8,700.0	8,379.8	8,304.8	7,818.0	33.6	40.6	-179.91	-2,049.1	-913.1	739.6	676.4	11.694		
8,800.0	8,479.8	8,304.8	7,818.0	33.7	40.6	-179.91	-2,049.1	-913.1	818.1	757.2	13.430		
8,900.0	8,579.8	8,304.8	7,818.0	33.7	40.6	-179.91	-2,049.1	-913.1	901.0	842.1	15.306		
9,000.0	8,679.8	8,304.8	7,818.0	33.7	40.6	-179.91	-2,049.1	-913.1	987.0	929.9	17.289		
9,007.2	8,687.0	8,304.8	7,818.0	33.7	40.6	-179.91	-2,049.1	-913.1	993.3	936.3	17.436		

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 Fed 0993-16-12W - Slot 16-12W
<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 Fed 0993-16-12W	<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		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	43.3	41.5	60.0			
100.0	100.0	100.0	100.0	0.8	0.8	43.76	43.3	41.5	60.0	58.4	37.877	
167.9	167.9	167.9	167.9	1.1	1.1	168.77	43.3	41.5	60.1	57.8	26.139	
200.0	200.0	200.1	200.1	1.3	1.2	168.84	43.3	41.5	60.0	57.4	23.483	CC
300.0	300.0	300.6	300.5	2.3	2.5	172.02	40.7	43.2	61.5	57.4	14.998	ES
400.0	399.8	400.5	400.1	3.5	4.0	179.04	34.5	47.3	66.2	60.6	11.748	SF
500.0	499.4	499.4	498.3	3.8	5.1	-166.06	24.7	53.6	75.5	69.2	12.034	
600.0	598.7	597.1	594.8	4.4	6.0	-151.65	11.6	62.2	89.5	82.2	12.244	
700.0	697.5	693.6	689.3	5.1	6.8	-141.22	-4.6	72.8	108.1	99.7	12.740	
800.0	795.7	788.5	781.4	5.8	7.6	-133.52	-23.9	85.4	131.1	121.5	13.675	
900.0	893.3	881.8	870.9	6.5	8.3	-127.74	-46.0	99.8	158.0	147.4	14.891	
1,000.0	990.0	973.4	957.6	7.1	8.9	-123.30	-70.5	115.8	188.6	177.1	16.276	
1,100.0	1,085.8	1,063.0	1,041.3	7.7	9.5	-119.80	-97.4	133.3	222.7	210.2	17.751	
1,200.0	1,180.6	1,150.7	1,121.9	8.3	10.0	-116.95	-126.3	152.2	260.0	246.5	19.260	
1,300.0	1,274.2	1,236.3	1,199.3	8.9	10.6	-114.58	-156.9	172.2	300.3	285.8	20.758	
1,400.0	1,367.1	1,320.0	1,273.5	9.4	11.1	-113.76	-189.2	193.3	343.0	327.6	22.246	
1,500.0	1,460.1	1,400.0	1,343.2	9.7	11.5	-112.75	-222.2	214.8	387.7	371.4	23.712	
1,600.0	1,553.1	1,481.3	1,412.5	10.1	12.0	-111.59	-257.8	238.0	434.3	417.0	25.007	
1,700.0	1,646.1	1,558.7	1,477.0	10.5	12.4	-110.38	-293.6	261.4	483.0	464.7	26.370	
1,800.0	1,739.0	1,642.4	1,545.7	10.9	12.6	-109.11	-333.6	287.5	533.1	513.7	27.554	
1,900.0	1,832.0	1,728.3	1,616.2	11.3	12.9	-108.02	-374.8	314.4	583.4	562.9	28.549	
2,000.0	1,925.0	1,814.2	1,686.7	11.8	13.2	-107.10	-416.0	341.2	633.8	612.3	29.417	
2,100.0	2,017.9	1,900.2	1,757.1	12.2	13.5	-106.31	-457.2	368.1	684.3	661.7	30.180	
2,200.0	2,110.9	1,986.1	1,827.6	12.6	13.8	-105.63	-498.3	395.0	735.0	711.1	30.852	
2,300.0	2,203.9	2,072.0	1,898.1	13.1	14.1	-105.04	-539.5	421.8	785.7	760.7	31.451	
2,400.0	2,296.9	2,157.9	1,968.6	13.6	14.7	-104.52	-580.7	448.7	836.4	810.2	31.964	
2,500.0	2,389.8	2,243.9	2,039.1	14.0	15.7	-104.06	-621.8	475.6	887.2	859.9	32.449	
2,600.0	2,482.8	2,329.8	2,109.5	14.5	16.6	-103.65	-663.0	502.4	938.0	909.5	32.876	
2,700.0	2,575.8	2,415.7	2,180.0	15.0	17.5	-103.28	-704.2	529.3	988.9	959.2	33.260	
2,800.0	2,668.7	2,501.7	2,250.5	15.5	18.4	-102.95	-745.3	556.2	1,039.8	1,008.9	33.606	
2,900.0	2,761.7	2,587.6	2,321.0	16.0	19.3	-102.65	-786.5	583.0	1,090.7	1,058.6	33.918	
3,000.0	2,854.7	2,673.5	2,391.5	16.5	20.3	-102.37	-827.7	609.9	1,141.6	1,108.3	34.202	
3,100.0	2,947.7	2,759.5	2,461.9	17.1	21.2	-102.12	-868.8	636.8	1,192.6	1,158.0	34.461	
3,200.0	3,040.6	2,845.4	2,532.4	17.6	22.1	-101.89	-910.0	663.6	1,243.6	1,207.7	34.699	
3,300.0	3,133.6	2,931.3	2,602.9	18.2	23.0	-101.68	-951.2	690.5	1,294.6	1,257.5	34.916	
3,400.0	3,226.6	3,017.3	2,673.4	18.8	24.0	-101.48	-992.4	717.4	1,345.6	1,307.2	35.117	
3,500.0	3,319.5	3,103.2	2,743.9	19.4	24.9	-101.30	-1,033.5	744.2	1,396.6	1,357.0	35.301	
3,600.0	3,412.5	3,189.1	2,814.3	20.0	25.8	-101.13	-1,074.7	771.1	1,447.6	1,406.8	35.471	
3,700.0	3,505.5	3,275.1	2,884.8	20.6	26.7	-100.97	-1,115.9	797.9	1,498.6	1,456.5	35.629	
3,800.0	3,598.5	3,361.0	2,955.3	21.2	27.7	-100.82	-1,157.0	824.8	1,549.6	1,506.3	35.775	
3,900.0	3,691.4	3,446.9	3,025.8	21.9	28.6	-100.68	-1,198.2	851.7	1,600.7	1,556.1	35.911	
4,000.0	3,784.4	3,532.8	3,096.3	22.5	29.5	-100.55	-1,239.4	878.5	1,651.7	1,605.9	36.038	
4,100.0	3,877.4	3,618.8	3,166.7	23.1	30.5	-100.43	-1,280.5	905.4	1,702.8	1,655.7	36.156	
4,200.0	3,970.3	3,704.7	3,237.2	23.8	31.4	-100.32	-1,321.7	932.3	1,753.8	1,705.5	36.267	
4,300.0	4,063.3	3,790.6	3,307.7	24.4	32.3	-100.21	-1,362.9	959.1	1,804.9	1,755.3	36.370	
4,400.0	4,156.3	3,876.6	3,378.2	25.0	33.2	-100.11	-1,404.1	986.0	1,856.0	1,805.1	36.467	
4,500.0	4,249.3	3,962.5	3,448.7	25.7	34.2	-100.01	-1,445.2	1,012.9	1,907.0	1,854.9	36.559	
4,600.0	4,342.2	4,048.4	3,519.1	26.3	35.1	-99.92	-1,486.4	1,039.7	1,958.1	1,904.7	36.645	
4,700.0	4,435.2	4,134.4	3,589.6	27.0	36.0	-99.83	-1,527.6	1,066.6	2,009.2	1,954.5	36.725	
4,800.0	4,528.2	4,220.3	3,660.1	27.6	37.0	-99.75	-1,568.7	1,093.5	2,060.3	2,004.3	36.802	
4,900.0	4,621.1	4,306.2	3,730.6	28.2	37.9	-99.67	-1,609.9	1,120.3	2,111.4	2,054.1	36.874	

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 Fed 0993-16-12W - Slot 16-12W
<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 Fed 0993-16-12W	<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		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)			
5,000.0	4,714.1	4,392.2	3,801.1	28.9	38.8	-99.59	-1,651.1	1,147.2	2,162.4	2,103.9	36.942		
5,100.0	4,807.1	4,478.1	3,871.5	29.5	39.8	-99.52	-1,692.2	1,174.1	2,213.5	2,153.7	37.007		
5,200.0	4,900.4	4,564.1	3,942.1	30.1	40.7	-100.28	-1,733.4	1,200.9	2,264.5	2,203.4	37.081		
5,300.0	4,994.9	4,650.2	4,012.7	30.7	41.6	-101.24	-1,774.7	1,227.9	2,314.9	2,252.7	37.175		
5,400.0	5,090.4	4,736.3	4,083.3	31.2	42.6	-102.10	-1,815.9	1,254.8	2,364.8	2,301.4	37.292		
5,500.0	5,186.9	4,822.3	4,153.9	31.7	43.5	-102.85	-1,857.2	1,281.7	2,414.1	2,349.7	37.435		
5,600.0	5,284.3	4,908.2	4,224.3	32.1	44.4	-103.51	-1,898.3	1,308.5	2,462.9	2,397.4	37.603		
5,700.0	5,382.4	4,993.7	4,294.4	32.5	45.4	-104.09	-1,939.3	1,335.3	2,511.0	2,444.6	37.798		
5,800.0	5,481.1	5,078.8	4,364.3	32.8	46.3	-104.59	-1,980.1	1,361.9	2,558.6	2,491.3	38.019		
5,900.0	5,580.4	5,163.5	4,433.7	33.0	47.2	-105.02	-2,020.6	1,388.4	2,605.6	2,537.5	38.268		
6,000.0	5,679.9	5,247.5	4,502.6	33.2	48.1	-105.38	-2,060.9	1,414.6	2,652.0	2,583.2	38.546		
6,100.0	5,779.8	5,330.9	4,571.0	33.3	49.0	-105.68	-2,100.8	1,440.7	2,698.0	2,628.6	38.855		
6,200.0	5,879.8	5,414.2	4,640.4	33.4	49.9	-105.99	-2,141.1	1,466.9	2,743.5	2,674.1	39.184		
6,300.0	5,979.8	5,497.6	4,710.8	33.4	50.7	-106.29	-2,181.9	1,493.2	2,788.6	2,719.6	39.532		
6,400.0	6,079.8	5,580.9	4,782.2	33.4	51.5	-106.59	-2,223.1	1,519.5	2,833.3	2,765.1	39.899		
6,500.0	6,179.8	5,664.2	4,853.6	33.4	52.3	-106.89	-2,264.6	1,545.8	2,877.6	2,810.6	40.284		
6,600.0	6,279.8	5,747.5	4,924.9	33.4	53.1	-107.19	-2,306.4	1,572.1	2,921.6	2,856.1	40.687		
6,700.0	6,379.8	5,830.8	5,000.0	33.4	53.9	-107.49	-2,348.5	1,598.4	2,965.3	2,901.6	41.107		
6,800.0	6,479.8	5,914.1	5,075.0	33.5	54.7	-107.79	-2,390.9	1,624.7	3,008.7	2,947.1	41.543		
6,900.0	6,579.8	6,000.0	5,150.0	33.5	55.5	-108.09	-2,433.6	1,651.0	3,051.8	2,992.6	42.005		
7,000.0	6,679.8	6,085.9	5,225.0	33.5	56.3	-108.39	-2,476.6	1,677.3	3,094.6	3,038.1	42.493		
7,100.0	6,779.8	6,171.8	5,300.0	33.5	57.1	-108.69	-2,519.8	1,703.6	3,137.1	3,083.6	43.007		
7,200.0	6,879.8	6,257.7	5,375.0	33.5	57.9	-108.99	-2,563.2	1,729.9	3,179.3	3,129.1	43.547		
7,300.0	6,979.8	6,343.6	5,450.0	33.5	58.7	-109.29	-2,606.7	1,756.2	3,221.2	3,174.6	44.113		
7,400.0	7,079.8	6,429.5	5,525.0	33.5	59.5	-109.59	-2,650.3	1,782.5	3,262.8	3,220.1	44.705		
7,500.0	7,179.8	6,515.4	5,600.0	33.5	60.3	-109.89	-2,694.0	1,808.8	3,304.1	3,265.6	45.323		
7,600.0	7,279.8	6,601.3	5,675.0	33.5	61.1	-110.19	-2,737.8	1,835.1	3,345.1	3,310.6	45.967		
7,700.0	7,379.8	6,687.2	5,750.0	33.5	61.9	-110.49	-2,781.6	1,861.4	3,385.8	3,355.6	46.637		
7,800.0	7,479.8	6,773.1	5,825.0	33.5	62.7	-110.79	-2,825.5	1,887.7	3,426.2	3,400.6	47.333		
7,900.0	7,579.8	6,859.0	5,900.0	33.6	63.5	-111.09	-2,869.4	1,914.0	3,466.5	3,445.6	48.055		
8,000.0	7,679.8	6,944.9	5,975.0	33.6	64.3	-111.39	-2,913.4	1,940.3	3,506.6	3,490.6	48.803		
8,100.0	7,779.8	7,030.8	6,050.0	33.6	65.1	-111.69	-2,957.4	1,966.6	3,546.4	3,535.6	49.577		
8,110.0	7,789.8	7,040.8	6,060.0	33.6	65.2	-111.71	-2,961.4	1,968.5	3,549.3	3,538.5	49.617		
8,200.0	7,879.8	7,126.7	6,135.0	33.6	66.0	-112.01	-3,005.4	1,994.9	3,588.9	3,583.1	50.421		
8,300.0	7,979.8	7,212.6	6,210.0	33.6	66.8	-112.31	-3,049.4	2,021.2	3,628.2	3,627.6	51.251		
8,400.0	8,079.8	7,297.5	6,285.0	33.6	67.6	-112.61	-3,093.4	2,047.5	3,667.2	3,672.1	52.107		
8,500.0	8,179.8	7,383.4	6,360.0	33.6	68.4	-112.91	-3,137.4	2,073.8	3,705.9	3,716.6	52.989		
8,600.0	8,279.8	7,469.3	6,435.0	33.6	69.2	-113.21	-3,181.4	2,100.1	3,744.4	3,761.1	53.897		
8,700.0	8,379.8	7,555.2	6,510.0	33.6	70.0	-113.51	-3,225.4	2,126.4	3,782.6	3,805.6	54.831		
8,800.0	8,479.8	7,641.1	6,585.0	33.7	70.8	-113.81	-3,269.4	2,152.7	3,820.5	3,850.1	55.791		
8,900.0	8,579.8	7,727.0	6,660.0	33.7	71.6	-114.11	-3,313.4	2,179.0	3,858.1	3,894.6	56.777		
9,000.0	8,679.8	7,812.9	6,735.0	33.7	72.4	-114.41	-3,357.4	2,205.3	3,895.6	3,939.1	57.789		
9,007.2	8,687.0	7,825.0	6,750.0	33.7	72.5	-114.44	-3,361.4	2,208.2	3,900.4	3,944.0	57.907		

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 Fed 0993-16-12W - Slot 16-12W
<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 Fed 0993-16-12W	<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	43.75	21.7	20.7	30.0				
100.0	100.0	100.0	100.0	0.8	0.8	43.75	21.7	20.7	30.0	28.4	18.941	CC	
107.4	107.4	107.4	107.4	0.8	0.8	168.75	21.7	20.7	30.0	28.3	17.975		
200.0	200.0	200.0	200.0	1.3	1.4	168.76	21.7	20.7	30.0	27.3	10.985		
300.0	300.0	300.8	300.8	2.3	2.1	172.64	19.5	20.9	30.7	26.5	7.250	ES	
400.0	399.8	401.4	401.1	3.5	3.8	-176.84	12.9	21.5	32.8	26.7	5.405	SF	
500.0	499.4	501.6	500.7	3.8	4.5	-157.04	1.9	22.4	37.8	31.6	6.076		
600.0	598.7	602.2	600.2	4.4	5.0	-139.21	-13.1	22.1	44.5	37.6	6.469		
700.0	697.5	702.7	698.9	5.1	5.8	-126.25	-31.9	19.7	51.7	44.1	6.791		
800.0	795.7	803.0	796.5	5.8	6.7	-116.16	-54.5	15.3	59.3	51.1	7.232		
900.0	893.3	903.2	892.9	6.5	7.4	-107.88	-80.9	9.0	67.1	58.3	7.605		
1,000.0	990.0	1,003.1	987.9	7.1	8.1	-100.79	-110.9	0.7	75.2	65.6	7.859		
1,100.0	1,085.8	1,102.8	1,081.2	7.7	8.8	-94.53	-144.4	-9.4	83.4	72.9	7.978		
1,200.0	1,180.6	1,202.1	1,172.6	8.3	9.5	-88.88	-181.4	-21.5	91.8	80.3	7.972		
1,300.0	1,274.2	1,301.1	1,261.9	8.9	10.1	-83.71	-221.7	-35.4	100.4	87.7	7.872		
1,400.0	1,367.1	1,399.5	1,348.8	9.4	10.7	-78.82	-265.0	-51.0	109.9	95.7	7.744		
1,500.0	1,460.1	1,496.8	1,432.8	9.7	11.3	-72.88	-311.1	-68.1	121.3	105.5	7.672		
1,600.0	1,553.1	1,594.4	1,515.5	10.1	11.6	-66.80	-359.6	-86.6	135.0	117.6	7.746		
1,700.0	1,646.1	1,692.5	1,598.6	10.5	11.9	-61.80	-408.3	-105.3	150.1	131.1	7.905		
1,800.0	1,739.0	1,790.6	1,681.6	10.9	12.3	-57.72	-457.1	-123.9	166.0	145.6	8.122		
1,900.0	1,832.0	1,888.7	1,764.6	11.3	12.7	-54.36	-505.9	-142.5	182.7	160.8	8.371		
2,000.0	1,925.0	1,986.8	1,847.7	11.8	13.1	-51.57	-554.7	-161.1	199.8	176.7	8.639		
2,100.0	2,017.9	2,084.9	1,930.7	12.2	13.5	-49.22	-603.5	-179.8	217.4	193.0	8.907		
2,200.0	2,110.9	2,183.0	2,013.7	12.6	14.1	-47.22	-652.3	-198.4	235.2	209.6	9.171		
2,300.0	2,203.9	2,281.0	2,096.7	13.1	14.7	-45.50	-701.0	-217.0	253.3	226.4	9.429		
2,400.0	2,296.9	2,379.1	2,179.8	13.6	15.5	-44.02	-749.8	-235.7	271.6	243.5	9.678		
2,500.0	2,389.8	2,477.2	2,262.8	14.0	16.3	-42.72	-798.6	-254.3	290.0	260.8	9.915		
2,600.0	2,482.8	2,575.3	2,345.8	14.5	17.2	-41.57	-847.4	-272.9	308.6	278.2	10.141		
2,700.0	2,575.8	2,673.4	2,428.9	15.0	18.1	-40.56	-896.2	-291.5	327.3	295.7	10.356		
2,800.0	2,668.7	2,771.5	2,511.9	15.5	18.9	-39.65	-945.0	-310.2	346.0	313.3	10.559		
2,900.0	2,761.7	2,869.6	2,594.9	16.0	19.8	-38.84	-993.7	-328.8	364.9	330.9	10.751		
3,000.0	2,854.7	2,967.6	2,677.9	16.5	20.7	-38.11	-1,042.5	-347.4	383.8	348.7	10.932		
3,100.0	2,947.7	3,065.7	2,761.0	17.1	21.6	-37.44	-1,091.3	-366.0	402.7	366.4	11.103		
3,200.0	3,040.6	3,163.8	2,844.0	17.6	22.5	-36.84	-1,140.1	-384.7	421.7	384.3	11.265		
3,300.0	3,133.6	3,261.9	2,927.0	18.2	23.4	-36.29	-1,188.9	-403.3	440.8	402.2	11.418		
3,400.0	3,226.6	3,360.0	3,010.1	18.8	24.3	-35.78	-1,237.7	-421.9	459.8	420.1	11.563		
3,500.0	3,319.5	3,458.1	3,093.1	19.4	25.2	-35.31	-1,286.4	-440.5	479.0	438.0	11.700		
3,600.0	3,412.5	3,556.1	3,176.1	20.0	26.1	-34.88	-1,335.2	-459.2	498.1	456.0	11.830		
3,700.0	3,505.5	3,654.2	3,259.2	20.6	27.0	-34.48	-1,384.0	-477.8	517.3	474.0	11.953		
3,800.0	3,598.5	3,752.3	3,342.2	21.2	27.9	-34.11	-1,432.8	-496.4	536.4	492.0	12.070		
3,900.0	3,691.4	3,850.4	3,425.2	21.9	28.8	-33.77	-1,481.6	-515.0	555.6	510.0	12.181		
4,000.0	3,784.4	3,948.5	3,508.2	22.5	29.7	-33.45	-1,530.4	-533.7	574.9	528.1	12.286		
4,100.0	3,877.4	4,046.6	3,591.3	23.1	30.6	-33.15	-1,579.1	-552.3	594.1	546.1	12.386		
4,200.0	3,970.3	4,144.7	3,674.3	23.8	31.5	-32.87	-1,627.9	-570.9	613.4	564.2	12.481		
4,300.0	4,063.3	4,242.7	3,757.3	24.4	32.4	-32.60	-1,676.7	-589.5	632.6	582.3	12.572		
4,400.0	4,156.3	4,340.8	3,840.4	25.0	33.3	-32.35	-1,725.5	-608.2	651.9	600.4	12.659		
4,500.0	4,249.3	4,438.9	3,923.4	25.7	34.2	-32.12	-1,774.3	-626.8	671.2	618.5	12.741		
4,600.0	4,342.2	4,537.0	4,006.4	26.3	35.1	-31.90	-1,823.1	-645.4	690.5	636.7	12.820		
4,700.0	4,435.2	4,635.1	4,089.5	27.0	36.0	-31.69	-1,871.8	-664.1	709.8	654.8	12.895		
4,800.0	4,528.2	4,733.2	4,172.5	27.6	36.9	-31.49	-1,920.6	-682.7	729.2	672.9	12.967		
4,900.0	4,621.1	4,831.3	4,255.5	28.2	37.9	-31.30	-1,969.4	-701.3	748.5	691.1	13.036		

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 Fed 0993-16-12W - Slot 16-12W
<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 Fed 0993-16-12W	<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 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)			
5,000.0	4,714.1	4,929.3	4,338.5	28.9	38.8	-31.12	-2,018.2	-719.9	767.8	709.2	13.102		
5,100.0	4,807.1	5,027.4	4,421.6	29.5	39.7	-30.95	-2,067.0	-738.6	787.2	727.4	13.166		
5,200.0	4,900.4	5,125.3	4,504.5	30.1	40.6	-30.91	-2,115.7	-757.2	807.3	746.3	13.244		
5,300.0	4,994.9	5,222.6	4,586.8	30.7	41.5	-30.84	-2,164.0	-775.6	830.3	768.1	13.364		
5,400.0	5,090.4	5,331.1	4,678.8	31.2	42.5	-30.65	-2,217.8	-796.2	856.0	792.6	13.488		
5,500.0	5,186.9	5,480.3	4,808.7	31.7	43.8	-30.31	-2,286.3	-822.3	880.6	815.3	13.478		
5,600.0	5,284.3	5,633.1	4,946.4	32.1	44.9	-30.03	-2,348.0	-845.9	902.2	835.2	13.468		
5,700.0	5,382.4	5,789.0	5,091.2	32.5	45.9	-29.80	-2,402.1	-866.5	920.7	852.3	13.469		
5,800.0	5,481.1	5,947.8	5,242.3	32.8	46.8	-29.62	-2,447.6	-883.9	935.8	866.4	13.485		
5,900.0	5,580.4	6,108.9	5,398.7	33.0	47.5	-29.49	-2,483.6	-897.6	947.5	877.4	13.518		
6,000.0	5,679.9	6,271.8	5,559.2	33.2	48.0	-29.41	-2,509.5	-907.5	955.7	885.3	13.576		
6,100.0	5,779.8	6,435.8	5,722.3	33.3	48.3	-29.37	-2,524.8	-913.4	960.3	890.0	13.662		
6,200.0	5,879.8	6,593.4	5,879.8	33.4	48.4	-29.37	-2,529.2	-915.0	961.2	891.7	13.829		
6,280.5	5,960.3	6,673.9	5,960.3	33.4	48.4	-29.38	-2,529.2	-915.0	961.1	891.5	13.817		
6,300.0	5,979.8	6,693.4	5,979.8	33.4	48.4	-179.84	-2,529.2	-915.0	961.2	891.6	13.816		
6,400.0	6,079.8	6,793.4	6,079.8	33.4	48.4	-179.84	-2,529.2	-915.0	961.2	891.6	13.811		
6,500.0	6,179.8	6,893.4	6,179.8	33.4	48.4	-179.84	-2,529.2	-915.0	961.2	891.6	13.805		
6,600.0	6,279.8	6,993.4	6,279.8	33.4	48.4	-179.84	-2,529.2	-915.0	961.2	891.5	13.799		
6,700.0	6,379.8	7,093.4	6,379.8	33.4	48.4	-179.84	-2,529.2	-915.0	961.2	891.5	13.793		
6,800.0	6,479.8	7,193.4	6,479.8	33.5	48.4	-179.84	-2,529.2	-915.0	961.2	891.5	13.788		
6,900.0	6,579.8	7,293.4	6,579.8	33.5	48.4	-179.84	-2,529.2	-915.0	961.2	891.4	13.782		
7,000.0	6,679.8	7,393.4	6,679.8	33.5	48.4	-179.84	-2,529.2	-915.0	961.2	891.4	13.776		
7,100.0	6,779.8	7,493.4	6,779.8	33.5	48.4	-179.84	-2,529.2	-915.0	961.2	891.4	13.770		
7,200.0	6,879.8	7,593.4	6,879.8	33.5	48.4	-179.84	-2,529.2	-915.0	961.2	891.3	13.764		
7,300.0	6,979.8	7,693.4	6,979.8	33.5	48.4	-179.84	-2,529.2	-915.0	961.2	891.3	13.757		
7,400.0	7,079.8	7,793.4	7,079.8	33.5	48.4	-179.84	-2,529.2	-915.0	961.2	891.3	13.751		
7,500.0	7,179.8	7,893.4	7,179.8	33.5	48.4	-179.84	-2,529.2	-915.0	961.2	891.3	13.745		
7,600.0	7,279.8	7,993.4	7,279.8	33.5	48.4	-179.84	-2,529.2	-915.0	961.2	891.2	13.738		
7,700.0	7,379.8	8,093.4	7,379.8	33.5	48.4	-179.84	-2,529.2	-915.0	961.2	891.2	13.732		
7,800.0	7,479.8	8,193.4	7,479.8	33.5	48.5	-179.84	-2,529.2	-915.0	961.2	891.2	13.725		
7,900.0	7,579.8	8,293.4	7,579.8	33.6	48.5	-179.84	-2,529.2	-915.0	961.2	891.1	13.719		
8,000.0	7,679.8	8,393.4	7,679.8	33.6	48.5	-179.84	-2,529.2	-915.0	961.2	891.1	13.712		
8,100.0	7,779.8	8,493.4	7,779.8	33.6	48.5	-179.84	-2,529.2	-915.0	961.2	891.1	13.706		
8,200.0	7,879.8	8,593.4	7,879.8	33.6	48.5	-179.84	-2,529.2	-915.0	961.2	891.0	13.699		
8,300.0	7,979.8	8,693.4	7,979.8	33.6	48.5	-179.84	-2,529.2	-915.0	961.2	891.0	13.692		
8,400.0	8,079.8	8,793.4	8,079.8	33.6	48.5	-179.84	-2,529.2	-915.0	961.2	890.9	13.685		
8,500.0	8,179.8	8,893.4	8,179.8	33.6	48.5	-179.84	-2,529.2	-915.0	961.2	890.9	13.678		
8,600.0	8,279.8	8,993.4	8,279.8	33.6	48.5	-179.84	-2,529.2	-915.0	961.2	890.9	13.671		
8,700.0	8,379.8	9,093.4	8,379.8	33.6	48.5	-179.84	-2,529.2	-915.0	961.2	890.8	13.664		
8,800.0	8,479.8	9,193.4	8,479.8	33.7	48.5	-179.84	-2,529.2	-915.0	961.2	890.8	13.657		
8,900.0	8,579.8	9,293.4	8,579.8	33.7	48.5	-179.84	-2,529.2	-915.0	961.2	890.8	13.650		
8,912.6	8,592.4	9,306.0	8,592.4	33.7	48.5	-179.84	-2,529.2	-915.0	961.2	890.8	13.649		
9,000.0	8,679.8	9,382.6	8,669.0	33.7	48.5	-179.84	-2,529.2	-915.0	961.2	890.6	13.598		
9,007.2	8,687.0	9,382.6	8,669.0	33.7	48.5	-179.84	-2,529.2	-915.0	961.4	890.5	13.570		

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 Fed 0993-16-12W - Slot 16-12W
<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 Fed 0993-16-12W	<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	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	31.569	CC
107.4	107.4	107.4	107.4	0.8	0.8	168.77	36.1	34.6	50.0	48.3	29.959	
200.0	200.0	200.0	200.0	1.3	1.4	168.77	36.1	34.6	50.0	47.3	18.304	ES
300.0	300.0	300.5	300.5	2.3	2.2	171.57	34.2	35.7	51.5	47.4	12.544	
400.0	399.8	400.6	400.4	3.5	3.8	178.97	28.5	38.9	55.9	50.2	9.859	SF
500.0	499.4	499.8	499.0	3.8	4.9	-165.42	19.1	44.2	64.5	58.3	10.323	
600.0	598.7	598.0	596.0	4.4	5.9	-150.46	6.1	51.6	77.6	70.4	10.768	
700.0	697.5	695.1	691.2	5.1	6.7	-139.69	-10.2	60.8	95.1	86.8	11.428	
800.0	795.7	790.8	784.2	5.8	7.5	-131.82	-29.8	71.9	116.7	107.3	12.448	
900.0	893.3	885.0	874.8	6.5	8.1	-125.96	-52.3	84.7	142.0	131.6	13.699	
1,000.0	990.0	977.6	962.7	7.1	8.8	-121.49	-77.6	99.0	170.8	159.5	15.087	
1,100.0	1,085.8	1,068.5	1,047.8	7.7	9.4	-117.98	-105.4	114.7	202.9	190.7	16.541	
1,200.0	1,180.6	1,157.5	1,129.9	8.3	10.0	-115.14	-135.4	131.7	238.1	224.9	18.012	
1,300.0	1,274.2	1,244.7	1,208.9	8.9	10.5	-112.79	-167.5	149.9	276.2	262.0	19.458	
1,400.0	1,367.1	1,330.1	1,284.8	9.4	11.0	-111.91	-201.4	169.1	316.6	301.5	20.877	
1,500.0	1,460.1	1,413.6	1,357.7	9.7	11.5	-110.79	-237.0	189.3	359.0	342.9	22.224	
1,600.0	1,553.1	1,495.0	1,427.2	10.1	11.9	-109.53	-273.9	210.2	403.4	386.2	23.498	
1,700.0	1,646.1	1,574.4	1,493.5	10.5	12.4	-108.20	-311.8	231.7	449.8	431.6	24.718	
1,800.0	1,739.0	1,651.4	1,556.3	10.9	12.8	-106.86	-350.6	253.6	498.2	478.9	25.915	
1,900.0	1,832.0	1,726.2	1,615.9	11.3	13.1	-105.52	-390.0	275.9	548.6	528.4	27.135	
2,000.0	1,925.0	1,802.8	1,675.4	11.8	13.4	-104.16	-431.9	299.7	601.0	579.8	28.326	
2,100.0	2,017.9	1,886.7	1,740.3	12.2	13.7	-102.85	-478.2	325.9	654.0	631.6	29.259	
2,200.0	2,110.9	1,970.6	1,805.1	12.6	14.0	-101.74	-524.4	352.1	707.2	683.7	30.091	
2,300.0	2,203.9	2,054.5	1,870.0	13.1	14.2	-100.77	-570.7	378.3	760.6	736.0	30.842	
2,400.0	2,296.9	2,138.4	1,934.9	13.6	14.8	-99.94	-617.0	404.5	814.2	788.3	31.485	
2,500.0	2,389.8	2,222.3	1,999.8	14.0	15.8	-99.20	-663.3	430.7	867.8	840.8	32.104	
2,600.0	2,482.8	2,306.2	2,064.6	14.5	16.8	-98.55	-709.6	457.0	921.5	893.3	32.654	
2,700.0	2,575.8	2,390.0	2,129.5	15.0	17.7	-97.97	-755.9	483.2	975.3	945.9	33.150	
2,800.0	2,668.7	2,473.9	2,194.4	15.5	18.7	-97.45	-802.2	509.4	1,029.2	998.6	33.601	
2,900.0	2,761.7	2,557.8	2,259.3	16.0	19.7	-96.99	-848.5	535.6	1,083.1	1,051.3	34.013	
3,000.0	2,854.7	2,641.7	2,324.1	16.5	20.7	-96.56	-894.8	561.8	1,137.1	1,104.1	34.391	
3,100.0	2,947.7	2,725.6	2,389.0	17.1	21.7	-96.18	-941.1	588.1	1,191.1	1,156.8	34.738	
3,200.0	3,040.6	2,809.5	2,453.9	17.6	22.7	-95.82	-987.4	614.3	1,245.2	1,209.7	35.057	
3,300.0	3,133.6	2,893.4	2,518.7	18.2	23.7	-95.50	-1,033.6	640.5	1,299.3	1,262.5	35.351	
3,400.0	3,226.6	2,977.3	2,583.6	18.8	24.7	-95.20	-1,079.9	666.7	1,353.4	1,315.4	35.622	
3,500.0	3,319.5	3,061.2	2,648.5	19.4	25.7	-94.93	-1,126.2	692.9	1,407.5	1,368.3	35.874	
3,600.0	3,412.5	3,145.1	2,713.4	20.0	26.8	-94.68	-1,172.5	719.1	1,461.7	1,421.2	36.108	
3,700.0	3,505.5	3,229.0	2,778.2	20.6	27.8	-94.44	-1,218.8	745.4	1,515.8	1,474.1	36.325	
3,800.0	3,598.5	3,312.9	2,843.1	21.2	28.8	-94.22	-1,265.1	771.6	1,570.0	1,527.0	36.528	
3,900.0	3,691.4	3,396.8	2,908.0	21.9	29.8	-94.01	-1,311.4	797.8	1,624.2	1,580.0	36.718	
4,000.0	3,784.4	3,480.7	2,972.9	22.5	30.8	-93.82	-1,357.7	824.0	1,678.4	1,632.9	36.895	
4,100.0	3,877.4	3,564.6	3,037.7	23.1	31.8	-93.64	-1,404.0	850.2	1,732.7	1,685.9	37.061	
4,200.0	3,970.3	3,648.5	3,102.6	23.8	32.8	-93.47	-1,450.3	876.5	1,786.9	1,738.9	37.217	
4,300.0	4,063.3	3,732.4	3,167.5	24.4	33.8	-93.31	-1,496.5	902.7	1,841.2	1,791.9	37.363	
4,400.0	4,156.3	3,816.3	3,232.3	25.0	34.8	-93.16	-1,542.8	928.9	1,895.4	1,844.9	37.501	
4,500.0	4,249.3	3,900.2	3,297.2	25.7	35.8	-93.02	-1,589.1	955.1	1,949.7	1,897.9	37.632	
4,600.0	4,342.2	3,984.1	3,362.1	26.3	36.9	-92.89	-1,635.4	981.3	2,004.0	1,950.9	37.754	
4,700.0	4,435.2	4,068.0	3,427.0	27.0	37.9	-92.76	-1,681.7	1,007.5	2,058.3	2,003.9	37.870	
4,800.0	4,528.2	4,151.9	3,491.8	27.6	38.9	-92.64	-1,728.0	1,033.8	2,112.6	2,056.9	37.980	
4,900.0	4,621.1	4,235.8	3,556.7	28.2	39.9	-92.52	-1,774.3	1,060.0	2,166.9	2,110.0	38.085	

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 Fed 0993-16-12W - Slot 16-12W
<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 Fed 0993-16-12W	<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		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	4,714.1	4,319.7	3,621.6	28.9	40.9	-92.42	-1,820.6	1,086.2	2,221.2	2,163.0	38.183		
5,100.0	4,807.1	4,403.6	3,686.5	29.5	41.9	-92.31	-1,866.9	1,112.4	2,275.5	2,216.0	38.277		
5,200.0	4,900.4	4,487.4	3,751.3	30.1	42.9	-93.13	-1,913.1	1,138.6	2,329.7	2,269.1	38.383		
5,300.0	4,994.9	4,571.2	3,816.1	30.7	43.9	-94.20	-1,959.3	1,164.8	2,383.9	2,322.0	38.519		
5,400.0	5,090.4	4,654.7	3,880.6	31.2	44.9	-95.18	-2,005.4	1,190.9	2,437.8	2,374.8	38.690		
5,500.0	5,186.9	4,737.8	3,944.9	31.7	45.9	-96.07	-2,051.3	1,216.9	2,491.6	2,427.6	38.896		
5,600.0	5,284.3	4,820.5	4,008.9	32.1	46.9	-96.88	-2,096.9	1,242.7	2,545.2	2,480.1	39.137		
5,700.0	5,382.4	4,902.7	4,072.4	32.5	47.9	-97.61	-2,142.3	1,268.4	2,598.5	2,532.6	39.413		
5,800.0	5,481.1	4,984.2	4,135.4	32.8	48.9	-98.28	-2,187.2	1,293.9	2,651.6	2,584.9	39.725		
5,900.0	5,580.4	5,065.0	4,197.9	33.0	49.9	-98.89	-2,231.8	1,319.1	2,704.5	2,637.0	40.072		
6,000.0	5,679.9	5,144.9	4,259.7	33.2	50.9	-99.45	-2,275.9	1,344.1	2,757.3	2,689.1	40.455		
6,100.0	5,779.8	5,223.9	4,320.8	33.3	51.8	-99.96	-2,319.5	1,368.8	2,809.8	2,741.1	40.875		
6,200.0	5,879.8	5,301.9	4,381.1	33.4	52.8	-100.43	-2,362.5	1,393.1	2,862.3	2,793.1	41.344		
6,300.0	5,979.8	5,352.2	4,435.2	33.4	63.0	116.38	-2,848.0	1,668.1	2,880.5	2,799.9	35.751		
6,400.0	6,079.8	5,402.2	4,489.2	33.4	63.0	116.38	-2,848.0	1,668.1	2,880.5	2,799.9	35.746		
6,500.0	6,179.8	5,473.2	4,543.2	33.4	63.0	116.38	-2,848.0	1,668.1	2,880.5	2,799.9	35.741		
6,600.0	6,279.8	5,543.2	4,597.2	33.4	63.0	116.38	-2,848.0	1,668.1	2,880.5	2,799.9	35.735		
6,700.0	6,379.8	5,613.2	4,651.2	33.4	63.0	116.38	-2,848.0	1,668.1	2,880.5	2,799.9	35.729		
6,800.0	6,479.8	5,683.2	4,705.2	33.5	63.0	116.38	-2,848.0	1,668.1	2,880.5	2,799.9	35.723		
6,900.0	6,579.8	5,753.2	4,759.2	33.5	63.0	116.38	-2,848.0	1,668.1	2,880.5	2,799.9	35.717		
7,000.0	6,679.8	5,823.2	4,813.2	33.5	63.0	116.38	-2,848.0	1,668.1	2,880.5	2,799.8	35.711		
7,100.0	6,779.8	5,893.2	4,867.2	33.5	63.0	116.38	-2,848.0	1,668.1	2,880.5	2,799.8	35.705		
7,200.0	6,879.8	5,963.2	4,921.2	33.5	63.0	116.38	-2,848.0	1,668.1	2,880.5	2,799.8	35.698		
7,300.0	6,979.8	6,033.2	4,975.2	33.5	63.0	116.38	-2,848.0	1,668.1	2,880.5	2,799.8	35.692		
7,400.0	7,079.8	6,103.2	5,029.2	33.5	63.0	116.38	-2,848.0	1,668.1	2,880.5	2,799.8	35.685		
7,500.0	7,179.8	6,173.2	5,083.2	33.5	63.0	116.38	-2,848.0	1,668.1	2,880.5	2,799.8	35.678		
7,600.0	7,279.8	6,243.2	5,137.2	33.5	63.1	116.38	-2,848.0	1,668.1	2,880.5	2,799.8	35.671		
7,700.0	7,379.8	6,313.2	5,191.2	33.5	63.1	116.38	-2,848.0	1,668.1	2,880.5	2,799.7	35.663		
7,800.0	7,479.8	6,383.2	5,245.2	33.5	63.1	116.38	-2,848.0	1,668.1	2,880.5	2,799.7	35.656		
7,900.0	7,579.8	6,453.2	5,299.2	33.6	63.1	116.38	-2,848.0	1,668.1	2,880.5	2,799.7	35.648		
8,000.0	7,679.8	6,523.2	5,353.2	33.6	63.1	116.38	-2,848.0	1,668.1	2,880.5	2,799.7	35.641		
8,100.0	7,779.8	6,593.2	5,407.2	33.6	63.1	116.38	-2,848.0	1,668.1	2,880.5	2,799.7	35.633		
8,200.0	7,879.8	6,663.2	5,461.2	33.6	63.1	116.38	-2,848.0	1,668.1	2,880.5	2,799.6	35.625		
8,300.0	7,979.8	6,733.2	5,515.2	33.6	63.1	116.38	-2,848.0	1,668.1	2,880.5	2,799.6	35.617		
8,400.0	8,079.8	6,803.2	5,569.2	33.6	63.1	116.38	-2,848.0	1,668.1	2,880.5	2,799.6	35.609		
8,500.0	8,179.8	6,873.2	5,623.2	33.6	63.1	116.38	-2,848.0	1,668.1	2,880.5	2,799.6	35.600		
8,600.0	8,279.8	6,943.2	5,677.2	33.6	63.1	116.38	-2,848.0	1,668.1	2,880.5	2,799.6	35.592		
8,700.0	8,379.8	7,013.2	5,731.2	33.6	63.1	116.38	-2,848.0	1,668.1	2,880.5	2,799.6	35.583		
8,800.0	8,479.8	7,083.2	5,785.2	33.7	63.1	116.38	-2,848.0	1,668.1	2,880.5	2,799.5	35.574		
8,900.0	8,579.8	7,153.2	5,839.2	33.7	63.1	116.38	-2,848.0	1,668.1	2,880.5	2,799.5	35.565		
9,000.0	8,679.8	7,223.2	5,893.2	33.7	63.1	116.38	-2,848.0	1,668.1	2,880.5	2,799.5	35.557		
9,007.2	8,687.0	7,230.4	5,900.4	33.7	63.1	116.38	-2,848.0	1,668.1	2,880.5	2,799.5	35.545		

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 Fed 0993-16-12W - Slot 16-12W
<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 Fed 0993-16-12W	<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 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	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	25.260	CC	
107.4	107.4	107.4	107.4	0.8	0.8	168.78	28.9	27.7	40.0	38.4	24.021		
200.0	200.0	200.1	200.1	1.3	1.3	168.81	28.9	27.7	40.0	37.4	15.175		
300.0	300.0	300.8	300.7	2.3	2.5	172.71	26.4	28.6	41.0	36.6	9.317	ES	
400.0	399.8	401.0	400.7	3.5	4.0	-177.95	19.8	31.0	44.5	38.5	7.483	SF	
500.0	499.4	500.5	499.6	3.8	5.1	-160.25	9.2	34.9	51.9	45.6	8.162		
600.0	598.7	601.1	599.0	4.4	5.5	-144.07	-5.6	38.8	62.2	54.9	8.508		
700.0	697.5	702.0	698.1	5.1	6.1	-132.72	-24.2	40.7	72.9	64.3	8.523		
800.0	795.7	802.8	796.4	5.8	6.8	-124.13	-46.7	40.5	83.7	74.2	8.805		
900.0	893.3	903.6	893.6	6.5	7.5	-117.22	-72.9	38.2	94.4	84.1	9.171		
1,000.0	990.0	1,004.3	989.7	7.1	8.1	-111.39	-102.9	33.8	105.0	94.0	9.547		
1,100.0	1,085.8	1,104.8	1,084.2	7.7	8.8	-106.29	-136.4	27.4	115.4	103.7	9.843		
1,200.0	1,180.6	1,205.2	1,177.1	8.3	9.4	-101.70	-173.5	18.9	125.6	113.0	10.004		
1,300.0	1,274.2	1,305.3	1,268.0	8.9	10.0	-97.47	-214.1	8.5	135.6	122.1	10.032		
1,400.0	1,367.1	1,405.0	1,356.8	9.4	10.6	-93.61	-257.8	-3.9	145.6	131.0	9.960		
1,500.0	1,460.1	1,503.8	1,442.7	9.7	11.2	-88.73	-304.4	-18.1	156.2	140.3	9.837		
1,600.0	1,553.1	1,601.3	1,525.4	10.1	11.7	-83.13	-353.5	-34.0	168.2	150.9	9.728		
1,700.0	1,646.1	1,697.2	1,604.6	10.5	12.2	-77.11	-404.7	-51.4	182.5	163.7	9.701		
1,800.0	1,739.0	1,792.8	1,681.7	10.9	12.6	-71.10	-458.1	-70.2	199.6	179.3	9.830		
1,900.0	1,832.0	1,889.1	1,759.1	11.3	13.0	-65.92	-512.1	-89.2	218.8	197.0	10.046		
2,000.0	1,925.0	1,985.4	1,836.6	11.8	13.4	-61.58	-566.1	-108.3	239.5	216.3	10.328		
2,100.0	2,017.9	2,081.8	1,914.0	12.2	14.0	-57.92	-620.1	-127.3	261.3	236.7	10.652		
2,200.0	2,110.9	2,178.1	1,991.4	12.6	14.7	-54.83	-674.1	-146.4	283.9	258.1	10.998		
2,300.0	2,203.9	2,274.4	2,068.9	13.1	15.4	-52.19	-728.1	-165.4	307.3	280.2	11.353		
2,400.0	2,296.9	2,370.7	2,146.3	13.6	16.3	-49.92	-782.1	-184.5	331.2	302.9	11.707		
2,500.0	2,389.8	2,467.0	2,223.8	14.0	17.2	-47.96	-836.1	-203.5	355.5	326.1	12.056		
2,600.0	2,482.8	2,563.3	2,301.2	14.5	18.1	-46.24	-890.1	-222.6	380.2	349.6	12.394		
2,700.0	2,575.8	2,659.6	2,378.6	15.0	19.0	-44.74	-944.1	-241.6	405.2	373.3	12.721		
2,800.0	2,668.7	2,755.9	2,456.1	15.5	20.0	-43.40	-998.1	-260.7	430.4	397.4	13.035		
2,900.0	2,761.7	2,852.2	2,533.5	16.0	20.9	-42.22	-1,052.1	-279.7	455.8	421.6	13.335		
3,000.0	2,854.7	2,948.6	2,611.0	16.5	21.9	-41.16	-1,106.1	-298.8	481.4	446.0	13.622		
3,100.0	2,947.7	3,044.9	2,688.4	17.1	22.9	-40.20	-1,160.1	-317.8	507.1	470.6	13.894		
3,200.0	3,040.6	3,141.2	2,765.8	17.6	23.8	-39.34	-1,214.1	-336.9	532.9	495.2	14.154		
3,300.0	3,133.6	3,237.5	2,843.3	18.2	24.8	-38.56	-1,268.1	-355.9	558.8	520.0	14.401		
3,400.0	3,226.6	3,333.8	2,920.7	18.8	25.8	-37.84	-1,322.1	-375.0	584.8	544.8	14.635		
3,500.0	3,319.5	3,430.1	2,998.2	19.4	26.7	-37.19	-1,376.1	-394.0	610.9	569.8	14.858		
3,600.0	3,412.5	3,526.4	3,075.6	20.0	27.7	-36.59	-1,430.1	-413.1	637.1	594.8	15.070		
3,700.0	3,505.5	3,622.7	3,153.0	20.6	28.7	-36.03	-1,484.1	-432.1	663.3	619.8	15.272		
3,800.0	3,598.5	3,719.0	3,230.5	21.2	29.7	-35.52	-1,538.1	-451.2	689.5	645.0	15.464		
3,900.0	3,691.4	3,815.4	3,307.9	21.9	30.6	-35.05	-1,592.1	-470.2	715.9	670.1	15.646		
4,000.0	3,784.4	3,911.7	3,385.3	22.5	31.6	-34.61	-1,646.1	-489.3	742.2	695.3	15.820		
4,100.0	3,877.4	4,008.0	3,462.8	23.1	32.6	-34.20	-1,700.1	-508.3	768.6	720.5	15.986		
4,200.0	3,970.3	4,104.3	3,540.2	23.8	33.6	-33.82	-1,754.1	-527.4	795.1	745.8	16.145		
4,300.0	4,063.3	4,200.6	3,617.7	24.4	34.6	-33.46	-1,808.1	-546.4	821.5	771.1	16.296		
4,400.0	4,156.3	4,296.9	3,695.1	25.0	35.6	-33.12	-1,862.1	-565.5	848.0	796.4	16.440		
4,500.0	4,249.3	4,393.2	3,772.5	25.7	36.5	-32.81	-1,916.1	-584.5	874.5	821.8	16.577		
4,600.0	4,342.2	4,489.5	3,850.0	26.3	37.5	-32.51	-1,970.1	-603.5	901.1	847.1	16.709		
4,700.0	4,435.2	4,585.8	3,927.4	27.0	38.5	-32.23	-2,024.1	-622.6	927.6	872.5	16.835		
4,800.0	4,528.2	4,682.2	4,004.9	27.6	39.5	-31.97	-2,078.1	-641.6	954.2	897.9	16.956		
4,900.0	4,621.1	4,778.5	4,082.3	28.2	40.5	-31.72	-2,132.1	-660.7	980.8	923.4	17.072		

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 Fed 0993-16-12W - Slot 16-12W
<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 Fed 0993-16-12W	<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 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	4,714.1	4,874.8	4,159.7	28.9	41.5	-31.48	-2,186.1	-679.7	1,007.4	948.8	17.183		
5,100.0	4,807.1	4,971.1	4,237.2	29.5	42.5	-31.25	-2,240.1	-698.8	1,034.1	974.3	17.289		
5,200.0	4,900.4	5,067.2	4,314.4	30.1	43.5	-31.23	-2,294.0	-717.8	1,061.5	1,000.5	17.410		
5,300.0	4,994.9	5,162.3	4,390.9	30.7	44.5	-31.24	-2,347.3	-736.6	1,091.7	1,029.6	17.570		
5,400.0	5,090.4	5,256.4	4,466.6	31.2	45.4	-31.20	-2,400.1	-755.2	1,124.8	1,061.5	17.781		
5,500.0	5,186.9	5,395.0	4,579.2	31.7	46.9	-30.92	-2,476.3	-782.1	1,159.7	1,094.6	17.819		
5,600.0	5,284.3	5,577.1	4,733.9	32.1	48.5	-30.51	-2,566.7	-814.0	1,191.3	1,124.0	17.697		
5,700.0	5,382.4	5,766.7	4,902.6	32.5	50.0	-30.17	-2,648.2	-842.8	1,218.6	1,149.4	17.610		
5,800.0	5,481.1	5,963.1	5,084.2	32.8	51.3	-29.90	-2,718.5	-867.6	1,241.3	1,170.6	17.569		
5,900.0	5,580.4	6,165.3	5,277.2	33.0	52.4	-29.70	-2,775.4	-887.6	1,258.8	1,187.3	17.585		
6,000.0	5,679.9	6,372.2	5,479.3	33.2	53.2	-29.57	-2,816.6	-902.2	1,271.1	1,199.2	17.669		
6,100.0	5,779.8	6,582.0	5,687.5	33.3	53.6	-29.50	-2,840.8	-910.7	1,277.9	1,206.2	17.835		
6,200.0	5,879.8	6,774.4	5,879.8	33.4	53.8	-29.51	-2,847.1	-912.9	1,279.2	1,208.5	18.110		
6,280.5	5,960.3	6,854.9	5,960.3	33.4	53.8	-29.51	-2,847.1	-912.9	1,279.1	1,208.4	18.097		
6,300.0	5,979.8	6,874.4	5,979.8	33.4	53.8	-179.97	-2,847.1	-912.9	1,279.1	1,208.5	18.095		
6,400.0	6,079.8	6,974.4	6,079.8	33.4	53.8	-179.97	-2,847.1	-912.9	1,279.1	1,208.4	18.089		
6,500.0	6,179.8	7,074.4	6,179.8	33.4	53.8	-179.97	-2,847.1	-912.9	1,279.1	1,208.4	18.081		
6,600.0	6,279.8	7,174.4	6,279.8	33.4	53.8	-179.97	-2,847.1	-912.9	1,279.1	1,208.4	18.074		
6,700.0	6,379.8	7,274.4	6,379.8	33.4	53.8	-179.97	-2,847.1	-912.9	1,279.1	1,208.3	18.067		
6,800.0	6,479.8	7,374.4	6,479.8	33.5	53.8	-179.97	-2,847.1	-912.9	1,279.1	1,208.3	18.059		
6,900.0	6,579.8	7,474.4	6,579.8	33.5	53.8	-179.97	-2,847.1	-912.9	1,279.1	1,208.3	18.052		
7,000.0	6,679.8	7,574.4	6,679.8	33.5	53.8	-179.97	-2,847.1	-912.9	1,279.1	1,208.3	18.044		
7,100.0	6,779.8	7,674.4	6,779.8	33.5	53.8	-179.97	-2,847.1	-912.9	1,279.1	1,208.2	18.037		
7,200.0	6,879.8	7,774.4	6,879.8	33.5	53.8	-179.97	-2,847.1	-912.9	1,279.1	1,208.2	18.029		
7,300.0	6,979.8	7,874.4	6,979.8	33.5	53.8	-179.97	-2,847.1	-912.9	1,279.1	1,208.2	18.021		
7,400.0	7,079.8	7,974.4	7,079.8	33.5	53.8	-179.97	-2,847.1	-912.9	1,279.1	1,208.1	18.013		
7,500.0	7,179.8	8,074.4	7,179.8	33.5	53.8	-179.97	-2,847.1	-912.9	1,279.1	1,208.1	18.005		
7,600.0	7,279.8	8,174.4	7,279.8	33.5	53.8	-179.97	-2,847.1	-912.9	1,279.1	1,208.1	17.997		
7,700.0	7,379.8	8,274.4	7,379.8	33.5	53.8	-179.97	-2,847.1	-912.9	1,279.1	1,208.0	17.989		
7,800.0	7,479.8	8,374.4	7,479.8	33.5	53.8	-179.97	-2,847.1	-912.9	1,279.1	1,208.0	17.981		
7,900.0	7,579.8	8,474.4	7,579.8	33.6	53.8	-179.97	-2,847.1	-912.9	1,279.1	1,208.0	17.972		
8,000.0	7,679.8	8,574.4	7,679.8	33.6	53.8	-179.97	-2,847.1	-912.9	1,279.1	1,207.9	17.964		
8,100.0	7,779.8	8,674.4	7,779.8	33.6	53.8	-179.97	-2,847.1	-912.9	1,279.1	1,207.9	17.956		
8,200.0	7,879.8	8,694.7	7,800.0	33.6	53.8	-179.97	-2,847.1	-912.9	1,281.6	1,209.0	17.643		
8,300.0	7,979.8	8,694.7	7,800.0	33.6	53.8	-179.97	-2,847.1	-912.9	1,291.7	1,217.7	17.442		
8,400.0	8,079.8	8,694.7	7,800.0	33.6	53.8	-179.97	-2,847.1	-912.9	1,309.4	1,234.3	17.436		
8,500.0	8,179.8	8,694.7	7,800.0	33.6	53.8	-179.97	-2,847.1	-912.9	1,334.3	1,258.6	17.610		
8,600.0	8,279.8	8,694.7	7,800.0	33.6	53.8	-179.97	-2,847.1	-912.9	1,366.2	1,290.1	17.950		
8,700.0	8,379.8	8,694.7	7,800.0	33.6	53.8	-179.97	-2,847.1	-912.9	1,404.4	1,328.3	18.442		
8,800.0	8,479.8	8,694.7	7,800.0	33.7	53.8	-179.97	-2,847.1	-912.9	1,448.6	1,372.6	19.073		
8,900.0	8,579.8	8,694.7	7,800.0	33.7	53.8	-179.97	-2,847.1	-912.9	1,498.1	1,422.5	19.830		
9,000.0	8,679.8	8,694.7	7,800.0	33.7	53.8	-179.97	-2,847.1	-912.9	1,552.5	1,477.5	20.701		
9,007.2	8,687.0	8,694.7	7,800.0	33.7	53.8	-179.97	-2,847.1	-912.9	1,556.6	1,481.6	20.769		

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

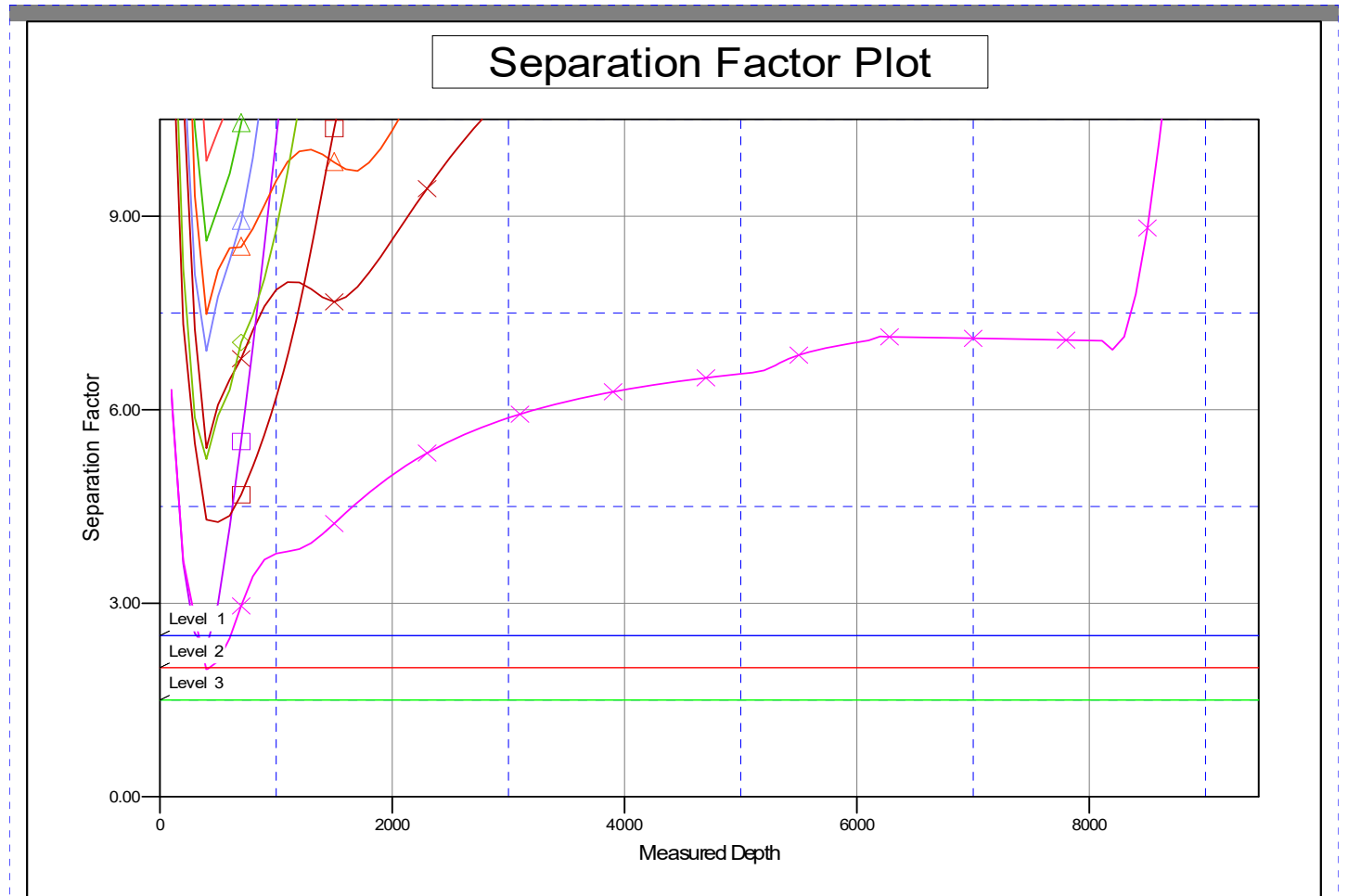




<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Currier BCU Fed 0993-16-12W - Slot 16-12W
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Reference Site:</b>	Currier 0993-16-07 Pad	<b>MD Reference:</b>	RKB=30' @ 7487.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Currier BCU Fed 0993-16-12W	<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 Fed 0993-16-12W - Slot 16-12W  
 Coordinate System is US State Plane 1983, Colorado Central Zone  
 Grid Convergence at Surface is: -1.43°



LEGEND

er BCU 0993-16-14W, OH, Design #3 V0	▲ Currier 0993-16-01M, OH, Design #3 V0	◆ (Offset) Buzzard Creek 16-1, Wellbore #1, Well
er) Buzzard Creek 16-12, Wellbore #1, Wellbore #1 V0	■ Currier BCU 0993-16-08M, OH, Design #3 V0	○ (Offset) Buzzard Creek 21-1, Wellbore #1, Well
er BCU 0993-16-06W, OH, Design #3 V0	▲ Currier BCU 0993-16-15E, OH, Design #3 V0	● Currier 0993-16-03M, OH, Design #2 V0
er BCU 0993-16-14E, OH, Design #2 V0	▲ Currier BCU 0993-16-05M, OH, Design #2 V0	◆ Currier BCU 0993-16-13E, OH, Design #3 V0
er) 0993-16-04M, OH, Design #4 V0	▲ Currier BCU 0993-16-11E, OH, Design #3 V0	◆ 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	■ 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	