



# **Laramie Energy, LLC**

**Mesa County, CO**

**Laramie 0993-29-01**

**Laramie 0993-20-13E**

**OH**

**Design #1**

## **KLX Anticollision Report**

**23 August, 2023**





Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Laramie 0993-20-13E - Slot A-5
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-13E	<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>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Reference</b>	Design #1		
<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>	8/23/2023		
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.0	8,601.1	Design #1 (OH)	OWSG (REV5) MWD HD	OWSG MWD - Standard

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Laramie 0993-29-01						
Laramie 0993-20-11E - OH - Design #1	200.0	200.0	32.2	29.7	13.023	CC, ES
Laramie 0993-20-11E - OH - Design #1	500.0	495.4	41.6	33.6	5.210	SF
Laramie 0993-20-12E - OH - Design #1	283.3	283.2	15.9	12.8	5.114	CC
Laramie 0993-20-12E - OH - Design #1	500.0	498.5	17.4	10.4	2.471	Level 1, ES
Laramie 0993-20-12E - OH - Design #1	1,000.0	993.9	25.2	12.7	2.020	Level 1, SF
Laramie 0993-20-14E - OH - Design #1	200.0	200.0	16.1	13.6	6.520	CC
Laramie 0993-20-14E - OH - Design #1	300.0	300.0	16.1	12.7	4.769	ES
Laramie 0993-20-14E - OH - Design #1	600.0	601.7	24.3	16.2	2.984	SF
Laramie 0993-20-15E - OH - Design #1	200.0	200.0	32.1	29.6	12.974	CC
Laramie 0993-20-15E - OH - Design #1	300.0	300.0	32.1	28.7	9.483	ES
Laramie 0993-20-15E - OH - Design #1	600.0	601.8	46.7	39.1	6.142	SF
Laramie 0993-20-16E - OH - Design #1	200.0	200.0	48.0	45.5	19.425	CC
Laramie 0993-20-16E - OH - Design #1	300.0	300.0	48.0	44.6	14.196	ES
Laramie 0993-20-16E - OH - Design #1	800.0	805.6	85.5	75.2	8.292	SF
Laramie 0993-20-17E - OH - Design #1	200.0	200.0	63.9	61.5	25.880	CC
Laramie 0993-20-17E - OH - Design #1	300.0	300.0	64.0	60.6	18.911	ES
Laramie 0993-20-17E - OH - Design #1	1,000.0	1,017.1	96.0	84.4	8.237	SF
Laramie 0993-20-18E - OH - Design #1	357.7	359.8	79.3	75.3	19.707	CC
Laramie 0993-20-18E - OH - Design #1	500.0	504.7	81.0	74.4	12.311	ES
Laramie 0993-20-18E - OH - Design #1	1,000.0	1,018.0	113.1	102.0	10.189	SF
Laramie Fed 0993-21-11W - OH - Design #1	200.0	200.0	24.1	21.6	9.754	CC
Laramie Fed 0993-21-11W - OH - Design #1	400.0	399.1	24.5	19.8	5.240	ES
Laramie Fed 0993-21-11W - OH - Design #1	500.0	497.5	27.8	21.2	4.180	SF
Laramie Fed 0993-21-12W - OH - Design #1	200.0	200.0	8.0	5.5	3.243	CC
Laramie Fed 0993-21-12W - OH - Design #1	300.0	299.9	8.6	5.1	2.439	Level 1, ES
Laramie Fed 0993-21-12W - OH - Design #1	400.0	399.3	12.0	6.3	2.114	Level 1, SF
Laramie Fed 0993-21-13W - OH - Design #1	200.0	200.0	8.0	5.6	3.252	CC
Laramie Fed 0993-21-13W - OH - Design #1	300.0	299.9	8.4	5.0	2.480	Level 1, ES, SF
Laramie Fed 0993-21-14W - OH - Design #1	200.0	200.0	24.0	21.5	9.705	CC
Laramie Fed 0993-21-14W - OH - Design #1	300.0	299.9	24.2	21.0	7.644	ES
Laramie Fed 0993-21-14W - OH - Design #1	500.0	497.5	40.2	32.9	5.492	SF
Laramie Fed 0993-21-15W - OH - Design #1	200.0	200.0	40.1	37.7	16.243	CC
Laramie Fed 0993-21-15W - OH - Design #1	300.0	299.8	40.3	37.2	12.915	ES
Laramie Fed 0993-21-15W - OH - Design #1	500.0	497.0	55.2	48.2	7.875	SF
Laramie Fed 0993-21-16W - OH - Design #1	200.0	200.0	56.1	53.6	22.694	CC
Laramie Fed 0993-21-16W - OH - Design #1	300.0	299.4	56.5	53.3	17.785	ES
Laramie Fed 0993-21-16W - OH - Design #1	500.0	495.4	72.8	65.6	10.158	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 Laramie 0993-20-13E - Slot A-5
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-13E	<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>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
<b>Summary</b>						
<b>Offset Well - Wellbore - Design</b>						
Laramie 0993-29-01						
Laramie 29-01 Fed 0993-21-17W - OH - Design #1	200.0	200.0	72.0	69.5	29.148	CC
Laramie 29-01 Fed 0993-21-17W - OH - Design #1	300.0	298.9	72.6	69.4	22.738	ES
Laramie 29-01 Fed 0993-21-17W - OH - Design #1	500.0	493.8	89.9	82.6	12.379	SF
Laramie 29-01 Fed 0993-21-18W - OH - Design #1	200.0	200.0	88.0	85.5	35.600	CC, ES
Laramie 29-01 Fed 0993-21-18W - OH - Design #1	500.0	490.8	109.1	101.4	14.124	SF

Offset Design											Offset Site Error:	0.0 usft
Laramie 0993-29-01 - Laramie 0993-20-11E - OH - Design #1											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	-46.72	22.1	-23.4	32.2			
100.0	100.0	100.0	100.0	0.4	0.4	-46.72	22.1	-23.4	32.2	31.4	40.619	
200.0	200.0	200.0	200.0	1.2	1.2	-46.72	22.1	-23.4	32.2	29.7	13.023	CC, ES
300.0	300.0	298.9	298.9	1.6	2.4	27.70	24.2	-23.6	33.8	30.0	8.920	
400.0	400.0	397.5	397.2	2.5	3.9	35.83	30.5	-24.2	36.9	31.0	6.263	
500.0	499.7	495.4	494.6	4.0	4.9	47.29	40.6	-26.2	41.6	33.6	5.210	SF
600.0	599.1	592.9	591.1	4.6	5.7	54.60	53.7	-30.8	49.1	40.1	5.502	
700.0	697.9	690.3	686.8	5.1	6.5	54.02	70.0	-38.0	58.1	48.2	5.883	
800.0	796.1	787.6	781.6	5.9	7.2	54.06	89.5	-47.8	67.5	56.5	6.133	
900.0	893.5	884.7	875.3	6.6	7.9	54.21	111.9	-60.1	76.9	65.0	6.433	
1,000.0	989.8	981.8	967.8	7.4	8.6	54.32	137.4	-75.0	86.2	73.3	6.704	
1,100.0	1,084.9	1,078.7	1,058.9	8.1	9.2	54.36	165.8	-92.3	95.1	81.4	6.903	
1,200.0	1,178.6	1,175.6	1,148.4	8.8	9.8	54.31	197.1	-112.1	103.7	88.9	7.026	
1,300.0	1,270.7	1,272.4	1,236.2	9.4	10.4	54.19	231.2	-134.4	111.7	95.9	7.071	
1,400.0	1,361.1	1,369.1	1,322.1	10.1	11.0	54.01	268.1	-158.9	119.3	102.3	7.044	
1,500.0	1,449.6	1,465.7	1,406.0	10.7	11.5	53.76	307.7	-185.8	126.3	108.1	6.952	
1,600.0	1,536.0	1,562.3	1,487.8	11.3	12.1	53.45	349.9	-215.0	132.7	113.2	6.804	
1,700.0	1,620.4	1,658.7	1,567.3	11.6	12.6	53.26	394.7	-246.3	139.0	118.2	6.687	
1,800.0	1,704.6	1,757.1	1,646.4	12.0	13.0	52.44	442.3	-280.1	146.9	124.7	6.609	
1,900.0	1,788.8	1,856.7	1,726.4	12.4	13.3	51.62	490.8	-314.5	155.1	131.4	6.533	
2,000.0	1,873.1	1,956.4	1,806.4	12.8	13.8	50.87	539.3	-348.8	163.3	138.0	6.460	
2,100.0	1,957.3	2,056.0	1,886.4	13.3	14.3	50.20	587.7	-383.2	171.5	144.7	6.401	
2,200.0	2,041.5	2,155.6	1,966.4	14.0	15.0	49.59	636.2	-417.6	179.8	151.4	6.339	
2,300.0	2,125.7	2,255.3	2,046.4	14.8	15.9	49.03	684.7	-451.9	188.0	158.1	6.282	
2,400.0	2,209.9	2,354.9	2,126.4	15.7	16.9	48.52	733.1	-486.3	196.3	164.8	6.230	
2,500.0	2,294.1	2,454.6	2,206.3	16.7	17.9	48.05	781.6	-520.7	204.6	171.5	6.183	
2,600.0	2,378.4	2,554.2	2,286.3	17.7	19.0	47.62	830.1	-555.0	212.9	178.2	6.139	
2,700.0	2,462.6	2,653.8	2,366.3	18.6	20.1	47.22	878.5	-589.4	221.2	184.9	6.099	
2,800.0	2,546.8	2,753.5	2,446.3	19.6	21.2	46.84	927.0	-623.8	229.5	191.7	6.062	
2,900.0	2,631.0	2,853.1	2,526.3	20.6	22.3	46.50	975.5	-658.1	237.9	198.4	6.027	
3,000.0	2,715.2	2,952.8	2,606.3	21.6	23.4	46.18	1,023.9	-692.5	246.2	205.1	5.995	
3,100.0	2,799.4	3,052.4	2,686.3	22.6	24.5	45.88	1,072.4	-726.9	254.6	211.9	5.965	
3,200.0	2,883.6	3,152.1	2,766.3	23.7	25.7	45.59	1,120.9	-761.2	262.9	218.6	5.937	
3,300.0	2,967.9	3,251.7	2,846.3	24.7	26.8	45.33	1,169.3	-795.6	271.3	225.4	5.911	
3,400.0	3,052.1	3,351.3	2,926.3	25.7	27.9	45.08	1,217.8	-830.0	279.7	232.1	5.886	
3,500.0	3,136.3	3,451.0	3,006.2	26.7	29.0	44.85	1,266.3	-864.3	288.0	238.9	5.863	
3,600.0	3,220.5	3,550.6	3,086.2	27.7	30.2	44.63	1,314.7	-898.7	296.4	245.7	5.842	
3,700.0	3,304.7	3,650.3	3,166.2	28.7	31.3	44.42	1,363.2	-933.1	304.8	252.4	5.821	

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 Laramie 0993-20-13E - Slot A-5
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-13E	<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>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
3,800.0	3,388.9	3,749.9	3,246.2	29.7	32.4	44.22	1,411.7	-967.4	313.2	259.2	5.802		
3,900.0	3,473.2	3,849.6	3,326.2	30.8	33.5	44.03	1,460.1	-1,001.8	321.6	266.0	5.784		
4,000.0	3,557.4	3,949.2	3,406.2	31.8	34.7	43.85	1,508.6	-1,036.2	330.0	272.7	5.767		
4,100.0	3,641.6	4,048.8	3,486.2	32.8	35.8	43.69	1,557.1	-1,070.5	338.3	279.5	5.750		
4,200.0	3,725.8	4,148.5	3,566.2	33.8	36.9	43.53	1,605.5	-1,104.9	346.7	286.3	5.735		
4,300.0	3,810.0	4,248.1	3,646.2	34.8	38.1	43.37	1,654.0	-1,139.3	355.1	293.1	5.720		
4,400.0	3,894.2	4,347.8	3,726.2	35.9	39.2	43.23	1,702.5	-1,173.6	363.6	299.8	5.706		
4,500.0	3,978.4	4,447.4	3,806.1	36.9	40.3	43.09	1,750.9	-1,208.0	372.0	306.6	5.693		
4,600.0	4,062.7	4,547.0	3,886.1	37.9	41.4	42.95	1,799.4	-1,242.4	380.4	313.4	5.680		
4,700.0	4,146.9	4,646.7	3,966.1	38.9	42.6	42.83	1,847.9	-1,276.8	388.8	320.2	5.668		
4,800.0	4,231.1	4,746.3	4,046.1	40.0	43.7	42.70	1,896.3	-1,311.1	397.2	327.0	5.657		
4,900.0	4,315.3	4,846.0	4,126.1	41.0	44.9	42.59	1,944.8	-1,345.5	405.6	333.8	5.646		
5,000.0	4,399.5	4,945.6	4,206.1	42.0	46.0	42.47	1,993.3	-1,379.9	414.0	340.5	5.635		
5,100.0	4,483.7	5,045.3	4,286.1	43.0	47.1	42.37	2,041.7	-1,414.2	422.4	347.3	5.625		
5,200.0	4,567.9	5,144.9	4,366.1	44.1	48.3	42.26	2,090.2	-1,448.6	430.8	354.1	5.615		
5,300.0	4,652.2	5,244.5	4,446.1	45.1	49.4	42.16	2,138.7	-1,483.0	439.3	360.9	5.606		
5,400.0	4,736.4	5,344.2	4,526.1	46.1	50.5	42.07	2,187.1	-1,517.3	447.7	367.7	5.597		
5,500.0	4,820.6	5,443.8	4,606.0	47.1	51.7	41.97	2,235.6	-1,551.7	456.1	374.5	5.588		
5,600.0	4,905.5	5,543.4	4,685.9	48.1	52.8	41.90	2,284.0	-1,586.0	465.5	382.4	5.598		
5,700.0	4,992.6	5,654.4	4,775.7	49.0	54.0	41.58	2,337.3	-1,623.8	477.4	392.6	5.632		
5,800.0	5,081.8	5,773.7	4,875.5	49.9	55.3	41.23	2,390.8	-1,661.7	488.8	402.3	5.655		
5,900.0	5,172.9	5,893.9	4,979.2	50.6	56.4	40.93	2,440.2	-1,696.8	499.3	411.3	5.678		
6,000.0	5,265.6	6,014.9	5,086.7	51.3	57.4	40.66	2,485.5	-1,728.9	508.8	419.6	5.703		
6,100.0	5,360.0	6,136.5	5,197.5	51.9	58.3	40.42	2,526.3	-1,757.8	517.5	427.2	5.729		
6,200.0	5,455.6	6,258.8	5,311.5	52.4	59.1	40.22	2,562.4	-1,783.4	525.1	433.9	5.757		
6,300.0	5,552.5	6,381.7	5,428.3	52.8	59.7	40.04	2,593.7	-1,805.6	531.8	439.9	5.787		
6,400.0	5,650.3	6,505.0	5,547.3	53.2	60.3	39.89	2,619.8	-1,824.1	537.4	445.0	5.819		
6,500.0	5,749.0	6,628.8	5,668.4	53.4	60.7	39.77	2,640.8	-1,839.0	542.0	449.4	5.853		
6,600.0	5,848.2	6,752.9	5,791.0	53.6	61.0	39.67	2,656.5	-1,850.1	545.4	452.8	5.889		
6,700.0	5,947.9	6,877.2	5,914.7	53.8	61.2	39.60	2,666.7	-1,857.4	547.8	455.4	5.929		
6,800.0	6,047.9	7,001.7	6,039.0	53.8	61.4	39.55	2,671.5	-1,860.7	549.1	457.2	5.973		
6,900.0	6,147.9	7,110.6	6,147.9	53.9	61.4	-0.70	2,671.8	-1,861.0	549.3	457.6	5.994		
7,000.0	6,247.9	7,210.6	6,247.9	53.9	61.4	-0.70	2,671.8	-1,861.0	549.3	457.6	5.991		
7,100.0	6,347.9	7,310.6	6,347.9	53.9	61.4	-0.70	2,671.8	-1,861.0	549.3	457.5	5.987		
7,200.0	6,447.9	7,410.6	6,447.9	53.9	61.4	-0.70	2,671.8	-1,861.0	549.3	457.5	5.984		
7,300.0	6,547.9	7,510.6	6,547.9	53.9	61.4	-0.70	2,671.8	-1,861.0	549.3	457.4	5.980		
7,400.0	6,647.9	7,610.6	6,647.9	53.9	61.4	-0.70	2,671.8	-1,861.0	549.3	457.4	5.977		
7,500.0	6,747.9	7,710.6	6,747.9	54.0	61.5	-0.70	2,671.8	-1,861.0	549.3	457.3	5.974		
7,600.0	6,847.9	7,810.6	6,847.9	54.0	61.5	-0.70	2,671.8	-1,861.0	549.3	457.3	5.970		
7,700.0	6,947.9	7,910.6	6,947.9	54.0	61.5	-0.70	2,671.8	-1,861.0	549.3	457.2	5.967		
7,800.0	7,047.9	8,010.6	7,047.9	54.0	61.5	-0.70	2,671.8	-1,861.0	549.3	457.2	5.963		
7,900.0	7,147.9	8,110.6	7,147.9	54.0	61.5	-0.70	2,671.8	-1,861.0	549.3	457.1	5.960		
8,000.0	7,247.9	8,210.6	7,247.9	54.1	61.5	-0.70	2,671.8	-1,861.0	549.3	457.1	5.956		
8,100.0	7,347.9	8,310.6	7,347.9	54.1	61.6	-0.70	2,671.8	-1,861.0	549.3	457.0	5.953		
8,200.0	7,447.9	8,410.6	7,447.9	54.1	61.6	-0.70	2,671.8	-1,861.0	549.3	457.0	5.949		
8,300.0	7,547.9	8,510.6	7,547.9	54.1	61.6	-0.70	2,671.8	-1,861.0	549.3	456.9	5.946		
8,400.0	7,647.9	8,610.6	7,647.9	54.1	61.6	-0.70	2,671.8	-1,861.0	549.3	456.8	5.942		
8,500.0	7,747.9	8,710.6	7,747.9	54.2	61.6	-0.70	2,671.8	-1,861.0	549.3	456.8	5.939		
8,600.0	7,847.9	8,810.6	7,847.9	54.2	61.6	-0.70	2,671.8	-1,861.0	549.3	456.7	5.935		
8,601.1	7,849.0	8,811.7	7,849.0	54.2	61.6	-0.70	2,671.8	-1,861.0	549.3	456.7	5.935		

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 Laramie 0993-20-13E - Slot A-5
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-13E	<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>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N/-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	-45.99	11.1	-11.5	16.0				
100.0	100.0	100.0	100.0	0.4	0.4	-45.99	11.1	-11.5	16.0	15.2	20.230		
200.0	200.0	200.0	200.0	1.2	1.2	-45.99	11.1	-11.5	16.0	13.6	6.486		
283.3	283.3	283.2	283.2	1.6	1.5	26.23	11.1	-11.5	15.9	12.8	5.114 CC		
300.0	300.0	299.8	299.8	1.6	1.6	25.85	11.2	-11.7	16.1	12.9	5.042		
400.0	400.0	399.2	399.1	2.5	2.6	25.26	12.3	-14.7	16.7	11.8	3.366		
500.0	499.7	498.5	498.1	4.0	3.4	25.45	14.9	-21.7	17.4	10.4	2.471	Level 1, ES	
600.0	599.1	597.7	596.7	4.6	4.0	28.23	20.5	-31.5	18.4	10.5	2.345	Level 1	
700.0	697.9	696.8	694.7	5.1	5.0	27.44	29.7	-43.6	19.7	10.8	2.206	Level 1	
800.0	796.1	795.9	791.8	5.9	5.9	28.79	42.5	-58.0	21.4	11.1	2.078	Level 1	
900.0	893.5	894.9	888.1	6.6	6.7	30.93	58.8	-74.5	23.2	11.8	2.028	Level 1	
1,000.0	989.8	993.9	983.2	7.4	7.5	33.28	78.6	-93.2	25.2	12.7	2.020	Level 1, SF	
1,100.0	1,084.9	1,092.8	1,077.0	8.1	8.2	35.59	101.9	-114.1	27.3	13.9	2.033	Level 1	
1,200.0	1,178.6	1,191.6	1,169.4	8.8	8.9	37.76	128.6	-137.1	29.6	15.2	2.055	Level 1	
1,300.0	1,270.7	1,290.4	1,260.1	9.4	9.5	39.76	158.6	-162.1	31.9	16.5	2.077	Level 1	
1,400.0	1,361.1	1,389.1	1,349.0	10.1	10.2	41.60	192.0	-189.1	34.2	17.9	2.094	Level 1	
1,500.0	1,449.6	1,487.8	1,435.9	10.7	10.8	43.29	228.5	-218.1	36.5	19.1	2.101	Level 1	
1,600.0	1,536.0	1,586.5	1,520.8	11.3	11.3	44.83	268.2	-249.0	38.9	20.3	2.097	Level 1	
1,700.0	1,620.4	1,685.0	1,603.3	11.6	11.9	46.03	311.0	-281.7	41.7	22.1	2.123	Level 1	
1,800.0	1,704.6	1,784.5	1,684.9	12.0	12.3	45.28	356.4	-316.1	46.7	25.7	2.220	Level 1	
1,900.0	1,788.8	1,884.4	1,766.8	12.4	12.6	44.57	402.1	-350.6	51.8	29.3	2.304	Level 1	
2,000.0	1,873.1	1,984.3	1,848.6	12.8	13.0	44.00	447.7	-385.1	56.8	32.9	2.376	Level 1	
2,100.0	1,957.3	2,084.2	1,930.4	13.3	13.5	43.51	493.4	-419.6	61.9	36.5	2.439	Level 1	
2,200.0	2,041.5	2,184.0	2,012.3	14.0	14.1	43.10	539.1	-454.2	67.0	40.1	2.494	Level 1	
2,300.0	2,125.7	2,283.9	2,094.1	14.8	15.0	42.75	584.7	-488.7	72.1	43.7	2.542		
2,400.0	2,209.9	2,383.8	2,175.9	15.7	16.0	42.44	630.4	-523.2	77.2	47.3	2.584		
2,500.0	2,294.1	2,483.6	2,257.8	16.7	17.1	42.18	676.1	-557.7	82.3	50.9	2.622		
2,600.0	2,378.4	2,583.5	2,339.6	17.7	18.1	41.94	721.7	-592.3	87.4	54.5	2.655		
2,700.0	2,462.6	2,683.4	2,421.4	18.6	19.2	41.73	767.4	-626.8	92.5	58.0	2.684		
2,800.0	2,546.8	2,783.2	2,503.3	19.6	20.2	41.54	813.1	-661.3	97.6	61.6	2.710		
2,900.0	2,631.0	2,883.1	2,585.1	20.6	21.3	41.37	858.7	-695.8	102.7	65.1	2.734		
3,000.0	2,715.2	2,983.0	2,666.9	21.6	22.4	41.22	904.4	-730.4	107.8	68.7	2.756		
3,100.0	2,799.4	3,082.8	2,748.8	22.6	23.5	41.08	950.1	-764.9	112.9	72.2	2.775		
3,200.0	2,883.6	3,182.7	2,830.6	23.7	24.5	40.95	995.7	-799.4	118.0	75.7	2.792		
3,300.0	2,967.9	3,282.6	2,912.4	24.7	25.6	40.83	1,041.4	-833.9	123.1	79.2	2.808		
3,400.0	3,052.1	3,382.5	2,994.3	25.7	26.7	40.72	1,087.1	-868.5	128.2	82.8	2.823		
3,500.0	3,136.3	3,482.3	3,076.1	26.7	27.8	40.62	1,132.7	-903.0	133.3	86.3	2.836		
3,600.0	3,220.5	3,582.2	3,157.9	27.7	28.9	40.53	1,178.4	-937.5	138.4	89.8	2.849		
3,700.0	3,304.7	3,682.1	3,239.8	28.7	30.0	40.45	1,224.1	-972.0	143.5	93.3	2.860		
3,800.0	3,388.9	3,781.9	3,321.6	29.7	31.0	40.37	1,269.7	-1,006.6	148.6	96.8	2.871		
3,900.0	3,473.2	3,881.8	3,403.4	30.8	32.1	40.29	1,315.4	-1,041.1	153.7	100.3	2.880		
4,000.0	3,557.4	3,981.7	3,485.3	31.8	33.2	40.22	1,361.1	-1,075.6	158.8	103.8	2.889		
4,100.0	3,641.6	4,081.5	3,567.1	32.8	34.3	40.16	1,406.7	-1,110.1	163.9	107.3	2.898		
4,200.0	3,725.8	4,181.4	3,648.9	33.8	35.4	40.10	1,452.4	-1,144.7	169.0	110.8	2.906		
4,300.0	3,810.0	4,281.3	3,730.7	34.8	36.5	40.04	1,498.1	-1,179.2	174.1	114.3	2.913		
4,400.0	3,894.2	4,381.2	3,812.6	35.9	37.6	39.98	1,543.7	-1,213.7	179.2	117.8	2.920		
4,500.0	3,978.4	4,481.0	3,894.4	36.9	38.7	39.93	1,589.4	-1,248.2	184.3	121.3	2.926		
4,600.0	4,062.7	4,580.9	3,976.2	37.9	39.8	39.88	1,635.1	-1,282.8	189.4	124.8	2.932		
4,700.0	4,146.9	4,680.8	4,058.1	38.9	40.8	39.84	1,680.7	-1,317.3	194.5	128.3	2.938		
4,800.0	4,231.1	4,780.6	4,139.9	40.0	41.9	39.79	1,726.4	-1,351.8	199.6	131.8	2.943		
4,900.0	4,315.3	4,880.5	4,221.7	41.0	43.0	39.75	1,772.1	-1,386.3	204.7	135.3	2.948		
5,000.0	4,399.5	4,980.4	4,303.6	42.0	44.1	39.71	1,817.7	-1,420.9	209.8	138.8	2.953		

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 Laramie 0993-20-13E - Slot A-5
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-13E	<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>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
5,100.0	4,483.7	5,080.2	4,385.4	43.0	45.2	39.67	1,863.4	-1,455.4	214.9	142.2	2.957		
5,200.0	4,567.9	5,180.1	4,467.2	44.1	46.3	39.64	1,909.1	-1,489.9	220.0	145.7	2.961		
5,300.0	4,652.2	5,280.0	4,549.1	45.1	47.4	39.60	1,954.7	-1,524.4	225.1	149.2	2.965		
5,400.0	4,736.4	5,379.8	4,630.9	46.1	48.5	39.57	2,000.4	-1,559.0	230.2	152.7	2.969		
5,500.0	4,820.6	5,479.7	4,712.7	47.1	49.6	39.54	2,046.1	-1,593.5	235.3	156.2	2.973		
5,600.0	4,905.5	5,582.8	4,797.4	48.1	50.7	39.41	2,093.0	-1,629.0	241.3	160.5	2.987		
5,700.0	4,992.6	5,692.0	4,889.3	49.0	51.8	39.19	2,140.0	-1,664.4	247.4	165.0	3.002		
5,800.0	5,081.8	5,801.4	4,984.2	49.9	52.8	39.00	2,183.5	-1,697.4	253.2	169.2	3.015		
5,900.0	5,172.9	5,911.2	5,081.8	50.6	53.7	38.83	2,223.5	-1,727.6	258.5	173.1	3.029		
6,000.0	5,265.6	6,021.2	5,182.0	51.3	54.6	38.68	2,259.7	-1,755.0	263.3	176.7	3.043		
6,100.0	5,360.0	6,131.5	5,284.5	51.9	55.3	38.55	2,292.2	-1,779.5	267.6	180.0	3.057		
6,200.0	5,455.6	6,242.0	5,389.0	52.4	55.9	38.43	2,320.8	-1,801.1	271.4	183.0	3.072		
6,300.0	5,552.5	6,352.7	5,495.4	52.8	56.4	38.33	2,345.3	-1,819.7	274.7	185.7	3.087		
6,400.0	5,650.3	6,463.6	5,603.2	53.2	56.9	38.24	2,365.7	-1,835.1	277.4	188.0	3.103		
6,500.0	5,749.0	6,574.6	5,712.3	53.4	57.2	38.17	2,382.0	-1,847.5	279.7	190.0	3.119		
6,600.0	5,848.2	6,685.7	5,822.4	53.6	57.5	38.11	2,394.1	-1,856.6	281.4	191.6	3.136		
6,700.0	5,947.9	6,796.9	5,933.2	53.8	57.6	38.06	2,401.9	-1,862.5	282.5	192.9	3.153		
6,800.0	6,047.9	6,908.2	6,044.4	53.8	57.7	38.02	2,405.4	-1,865.1	283.1	193.9	3.174		
6,900.0	6,147.9	7,011.7	6,147.9	53.9	57.7	-2.23	2,405.6	-1,865.3	283.2	194.2	3.182		
7,000.0	6,247.9	7,111.7	6,247.9	53.9	57.7	-2.23	2,405.6	-1,865.3	283.2	194.2	3.180		
7,100.0	6,347.9	7,211.7	6,347.9	53.9	57.8	-2.23	2,405.6	-1,865.3	283.2	194.1	3.178		
7,200.0	6,447.9	7,311.7	6,447.9	53.9	57.8	-2.23	2,405.6	-1,865.3	283.2	194.0	3.176		
7,300.0	6,547.9	7,411.7	6,547.9	53.9	57.8	-2.23	2,405.6	-1,865.3	283.2	194.0	3.174		
7,400.0	6,647.9	7,511.7	6,647.9	53.9	57.8	-2.23	2,405.6	-1,865.3	283.2	193.9	3.172		
7,500.0	6,747.9	7,611.7	6,747.9	54.0	57.8	-2.23	2,405.6	-1,865.3	283.2	193.9	3.170		
7,600.0	6,847.9	7,711.7	6,847.9	54.0	57.8	-2.23	2,405.6	-1,865.3	283.2	193.8	3.169		
7,700.0	6,947.9	7,811.7	6,947.9	54.0	57.9	-2.23	2,405.6	-1,865.3	283.2	193.8	3.167		
7,800.0	7,047.9	7,911.7	7,047.9	54.0	57.9	-2.23	2,405.6	-1,865.3	283.2	193.7	3.165		
7,900.0	7,147.9	8,011.7	7,147.9	54.0	57.9	-2.23	2,405.6	-1,865.3	283.2	193.7	3.163		
8,000.0	7,247.9	8,111.7	7,247.9	54.1	57.9	-2.23	2,405.6	-1,865.3	283.2	193.6	3.161		
8,100.0	7,347.9	8,211.7	7,347.9	54.1	57.9	-2.23	2,405.6	-1,865.3	283.2	193.6	3.159		
8,200.0	7,447.9	8,311.7	7,447.9	54.1	57.9	-2.23	2,405.6	-1,865.3	283.2	193.5	3.157		
8,300.0	7,547.9	8,411.7	7,547.9	54.1	58.0	-2.23	2,405.6	-1,865.3	283.2	193.4	3.155		
8,400.0	7,647.9	8,511.7	7,647.9	54.1	58.0	-2.23	2,405.6	-1,865.3	283.2	193.4	3.153		
8,500.0	7,747.9	8,611.7	7,747.9	54.2	58.0	-2.23	2,405.6	-1,865.3	283.2	193.3	3.151		
8,600.0	7,847.9	8,711.7	7,847.9	54.2	58.0	-2.23	2,405.6	-1,865.3	283.2	193.3	3.149		
8,601.1	7,849.0	8,712.8	7,849.0	54.2	58.0	-2.23	2,405.6	-1,865.3	283.2	193.3	3.149		

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 Laramie 0993-20-13E - Slot A-5
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-13E	<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>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	133.46	-11.1	11.7	16.1				
100.0	100.0	100.0	100.0	0.4	0.4	133.46	-11.1	11.7	16.1	15.3	20.336		
200.0	200.0	200.0	200.0	1.2	1.2	133.46	-11.1	11.7	16.1	13.6	6.520	CC	
207.4	207.4	207.4	207.4	1.3	1.3	-154.54	-11.1	11.7	16.1	13.6	6.347		
300.0	300.0	300.0	300.0	1.6	1.7	-154.57	-11.1	11.7	16.1	12.7	4.769	ES	
400.0	400.0	400.3	400.3	2.5	1.9	-157.05	-11.0	11.1	18.1	13.7	4.102		
500.0	499.7	500.9	500.8	4.0	3.1	-157.42	-10.6	6.7	21.0	14.2	3.120		
600.0	599.1	601.7	601.2	4.6	4.5	-158.84	-9.9	-2.1	24.3	16.2	2.984	SF	
700.0	697.9	702.6	701.3	5.1	4.7	-161.43	-7.9	-14.8	28.3	19.7	3.298		
800.0	796.1	803.9	801.2	5.9	5.3	-161.78	-2.4	-30.2	32.5	22.7	3.315		
900.0	893.5	905.3	900.6	6.6	6.1	-161.26	6.7	-48.2	36.8	25.7	3.297		
1,000.0	989.8	1,006.9	999.2	7.4	6.8	-160.32	19.5	-68.8	41.3	28.8	3.303		
1,100.0	1,084.9	1,108.7	1,097.0	8.1	7.5	-159.17	35.9	-91.9	45.8	32.0	3.328		
1,200.0	1,178.6	1,210.6	1,193.6	8.8	8.2	-157.92	55.8	-117.5	50.3	35.4	3.362		
1,300.0	1,270.7	1,312.8	1,289.0	9.4	8.9	-156.62	79.4	-145.5	54.9	38.8	3.399		
1,400.0	1,361.1	1,415.1	1,382.8	10.1	9.5	-155.30	106.6	-176.0	59.6	42.2	3.436		
1,500.0	1,449.6	1,517.6	1,474.9	10.7	10.2	-153.97	137.3	-208.8	64.2	45.7	3.469		
1,600.0	1,536.0	1,620.3	1,565.1	11.3	10.7	-152.65	171.4	-243.9	68.9	49.2	3.504		
1,700.0	1,620.4	1,721.1	1,652.0	11.6	11.1	-151.21	207.6	-280.1	73.9	53.4	3.611		
1,800.0	1,704.6	1,821.0	1,738.0	12.0	11.5	-149.81	243.6	-316.1	79.1	57.7	3.696		
1,900.0	1,788.8	1,920.8	1,823.9	12.4	11.9	-148.59	279.6	-352.0	84.4	61.9	3.756		
2,000.0	1,873.1	2,020.7	1,909.8	12.8	12.3	-147.50	315.6	-388.0	89.7	66.1	3.798		
2,100.0	1,957.3	2,120.5	1,995.7	13.3	12.8	-146.54	351.6	-423.9	95.0	70.2	3.826		
2,200.0	2,041.5	2,220.4	2,081.6	14.0	13.5	-145.68	387.6	-459.9	100.4	74.3	3.842		
2,300.0	2,125.7	2,320.2	2,167.5	14.8	14.2	-144.91	423.5	-495.9	105.8	78.3	3.850		
2,400.0	2,209.9	2,420.0	2,253.4	15.7	15.1	-144.22	459.5	-531.8	111.2	82.3	3.851		
2,500.0	2,294.1	2,519.9	2,339.3	16.7	15.9	-143.58	495.5	-567.8	116.6	86.3	3.848		
2,600.0	2,378.4	2,619.7	2,425.3	17.7	16.8	-143.01	531.5	-603.7	122.0	90.3	3.841		
2,700.0	2,462.6	2,719.6	2,511.2	18.6	17.8	-142.48	567.5	-639.7	127.5	94.2	3.832		
2,800.0	2,546.8	2,819.4	2,597.1	19.6	18.7	-142.00	603.5	-675.6	132.9	98.1	3.821		
2,900.0	2,631.0	2,919.3	2,683.0	20.6	19.6	-141.55	639.5	-711.6	138.4	102.0	3.809		
3,000.0	2,715.2	3,019.1	2,768.9	21.6	20.5	-141.14	675.5	-747.6	143.8	105.9	3.796		
3,100.0	2,799.4	3,119.0	2,854.8	22.6	21.5	-140.76	711.5	-783.5	149.3	109.8	3.782		
3,200.0	2,883.6	3,218.8	2,940.7	23.7	22.4	-140.40	747.5	-819.5	154.8	113.7	3.769		
3,300.0	2,967.9	3,318.7	3,026.6	24.7	23.4	-140.07	783.4	-855.4	160.3	117.6	3.755		
3,400.0	3,052.1	3,418.5	3,112.5	25.7	24.3	-139.77	819.4	-891.4	165.8	121.5	3.741		
3,500.0	3,136.3	3,518.3	3,198.5	26.7	25.3	-139.48	855.4	-927.4	171.2	125.3	3.728		
3,600.0	3,220.5	3,618.2	3,284.4	27.7	26.2	-139.21	891.4	-963.3	176.7	129.2	3.715		
3,700.0	3,304.7	3,718.0	3,370.3	28.7	27.2	-138.95	927.4	-999.3	182.2	133.0	3.702		
3,800.0	3,388.9	3,817.9	3,456.2	29.7	28.1	-138.71	963.4	-1,035.2	187.7	136.9	3.690		
3,900.0	3,473.2	3,917.7	3,542.1	30.8	29.1	-138.49	999.4	-1,071.2	193.3	140.7	3.678		
4,000.0	3,557.4	4,017.6	3,628.0	31.8	30.1	-138.27	1,035.4	-1,107.2	198.8	144.5	3.666		
4,100.0	3,641.6	4,117.4	3,713.9	32.8	31.0	-138.07	1,071.4	-1,143.1	204.3	148.4	3.655		
4,200.0	3,725.8	4,217.3	3,799.8	33.8	32.0	-137.88	1,107.4	-1,179.1	209.8	152.2	3.644		
4,300.0	3,810.0	4,317.1	3,885.7	34.8	32.9	-137.70	1,143.3	-1,215.0	215.3	156.0	3.633		
4,400.0	3,894.2	4,417.0	3,971.7	35.9	33.9	-137.53	1,179.3	-1,251.0	220.8	159.9	3.623		
4,500.0	3,978.4	4,516.8	4,057.6	36.9	34.9	-137.36	1,215.3	-1,286.9	226.3	163.7	3.613		
4,600.0	4,062.7	4,616.6	4,143.5	37.9	35.8	-137.21	1,251.3	-1,322.9	231.9	167.5	3.603		
4,700.0	4,146.9	4,716.5	4,229.4	38.9	36.8	-137.06	1,287.3	-1,358.9	237.4	171.3	3.594		
4,800.0	4,231.1	4,816.3	4,315.3	40.0	37.8	-136.92	1,323.3	-1,394.8	242.9	175.2	3.585		
4,900.0	4,315.3	4,916.2	4,401.2	41.0	38.7	-136.78	1,359.3	-1,430.8	248.4	179.0	3.577		
5,000.0	4,399.5	5,016.0	4,487.1	42.0	39.7	-136.65	1,395.3	-1,466.7	254.0	182.8	3.569		

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 Laramie 0993-20-13E - Slot A-5
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-13E	<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>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
5,100.0	4,483.7	5,115.9	4,573.0	43.0	40.7	-136.53	1,431.3	-1,502.7	259.5	186.6	3.561		
5,200.0	4,567.9	5,215.7	4,659.0	44.1	41.6	-136.41	1,467.3	-1,538.7	265.0	190.4	3.553		
5,300.0	4,652.2	5,315.6	4,744.9	45.1	42.6	-136.29	1,503.2	-1,574.6	270.6	194.2	3.545		
5,400.0	4,736.4	5,415.4	4,830.8	46.1	43.6	-136.18	1,539.2	-1,610.6	276.1	198.1	3.538		
5,500.0	4,820.6	5,513.5	4,915.3	47.1	44.5	-136.09	1,574.5	-1,645.9	281.7	202.0	3.533		
5,600.0	4,905.5	5,605.6	4,995.8	48.1	45.4	-136.31	1,606.1	-1,677.4	288.2	207.0	3.549		
5,700.0	4,992.6	5,700.0	5,080.2	49.0	46.1	-136.55	1,636.0	-1,707.3	294.3	211.7	3.560		
5,800.0	5,081.8	5,789.4	5,161.6	49.9	46.8	-136.76	1,662.1	-1,733.3	300.0	216.1	3.575		
5,900.0	5,172.9	5,881.1	5,246.6	50.6	47.4	-136.96	1,686.4	-1,757.6	305.2	220.1	3.588		
6,000.0	5,265.6	5,972.6	5,332.8	51.3	48.0	-137.13	1,708.3	-1,779.5	309.8	223.8	3.600		
6,100.0	5,360.0	6,064.1	5,420.0	51.9	48.5	-137.29	1,727.8	-1,799.0	314.1	227.1	3.613		
6,200.0	5,455.6	6,155.5	5,508.1	52.4	48.9	-137.43	1,744.7	-1,815.9	317.8	230.1	3.625		
6,300.0	5,552.5	6,246.8	5,597.1	52.8	49.2	-137.56	1,759.2	-1,830.3	321.0	232.7	3.637		
6,400.0	5,650.3	6,338.0	5,686.8	53.2	49.5	-137.67	1,771.1	-1,842.2	323.7	235.0	3.649		
6,500.0	5,749.0	6,429.1	5,776.9	53.4	49.7	-137.76	1,780.5	-1,851.6	325.9	236.8	3.661		
6,600.0	5,848.2	6,520.2	5,867.5	53.6	49.9	-137.85	1,787.3	-1,858.4	327.5	238.3	3.672		
6,700.0	5,947.9	6,611.3	5,958.4	53.8	50.0	-137.91	1,791.6	-1,862.7	328.7	239.5	3.683		
6,800.0	6,047.9	6,702.4	6,049.4	53.8	50.1	-137.97	1,793.3	-1,864.4	329.3	240.2	3.696		
6,900.0	6,147.9	6,800.8	6,147.9	53.9	50.1	-178.22	1,793.3	-1,864.4	329.4	240.3	3.698		
7,000.0	6,247.9	6,900.8	6,247.9	53.9	50.1	-178.22	1,793.3	-1,864.4	329.4	240.3	3.696		
7,100.0	6,347.9	7,000.8	6,347.9	53.9	50.1	-178.22	1,793.3	-1,864.4	329.4	240.2	3.693		
7,200.0	6,447.9	7,100.8	6,447.9	53.9	50.2	-178.22	1,793.3	-1,864.4	329.4	240.2	3.691		
7,300.0	6,547.9	7,200.8	6,547.9	53.9	50.2	-178.22	1,793.3	-1,864.4	329.4	240.1	3.689		
7,400.0	6,647.9	7,300.8	6,647.9	53.9	50.2	-178.22	1,793.3	-1,864.4	329.4	240.1	3.687		
7,500.0	6,747.9	7,400.8	6,747.9	54.0	50.2	-178.22	1,793.3	-1,864.4	329.4	240.0	3.685		
7,600.0	6,847.9	7,500.8	6,847.9	54.0	50.2	-178.22	1,793.3	-1,864.4	329.4	240.0	3.682		
7,700.0	6,947.9	7,600.8	6,947.9	54.0	50.3	-178.22	1,793.3	-1,864.4	329.4	239.9	3.680		
7,800.0	7,047.9	7,700.8	7,047.9	54.0	50.3	-178.22	1,793.3	-1,864.4	329.4	239.8	3.678		
7,900.0	7,147.9	7,800.8	7,147.9	54.0	50.3	-178.22	1,793.3	-1,864.4	329.4	239.8	3.676		
8,000.0	7,247.9	7,900.8	7,247.9	54.1	50.3	-178.22	1,793.3	-1,864.4	329.4	239.7	3.673		
8,100.0	7,347.9	8,000.8	7,347.9	54.1	50.4	-178.22	1,793.3	-1,864.4	329.4	239.7	3.671		
8,200.0	7,447.9	8,100.8	7,447.9	54.1	50.4	-178.22	1,793.3	-1,864.4	329.4	239.6	3.669		
8,300.0	7,547.9	8,200.8	7,547.9	54.1	50.4	-178.22	1,793.3	-1,864.4	329.4	239.6	3.666		
8,400.0	7,647.9	8,300.8	7,647.9	54.1	50.4	-178.22	1,793.3	-1,864.4	329.4	239.5	3.664		
8,500.0	7,747.9	8,400.8	7,747.9	54.2	50.4	-178.22	1,793.3	-1,864.4	329.4	239.5	3.662		
8,600.0	7,847.9	8,500.8	7,847.9	54.2	50.5	-178.22	1,793.3	-1,864.4	329.4	239.4	3.660		
8,601.1	7,849.0	8,502.0	7,849.0	54.2	50.5	-178.22	1,793.3	-1,864.4	329.4	239.4	3.660		

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 Laramie 0993-20-13E - Slot A-5
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-13E	<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>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N/-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	133.37	-22.0	23.3	32.1				
100.0	100.0	100.0	100.0	0.4	0.4	133.37	-22.0	23.3	32.1	31.3	40.467		
200.0	200.0	200.0	200.0	1.2	1.2	133.37	-22.0	23.3	32.1	29.6	12.974	CC	
207.4	207.4	207.4	207.4	1.3	1.3	-154.63	-22.0	23.3	32.1	29.5	12.629		
300.0	300.0	300.0	300.0	1.6	1.7	-154.65	-22.0	23.3	32.1	28.7	9.483	ES	
400.0	400.0	400.0	400.0	2.5	2.1	-156.49	-22.0	23.3	34.5	29.9	7.515		
500.0	499.7	500.7	500.7	4.0	2.4	-159.16	-22.1	22.1	40.0	33.8	6.404		
600.0	599.1	601.8	601.7	4.6	3.7	-162.78	-22.6	16.5	46.7	39.1	6.142	SF	
700.0	697.9	703.3	702.7	5.1	4.2	-167.70	-23.2	6.6	54.3	46.0	6.543		
800.0	796.1	805.5	804.0	5.9	4.7	-169.10	-21.2	-6.7	62.1	52.6	6.533		
900.0	893.5	908.1	905.1	6.6	5.4	-169.14	-15.7	-23.0	70.1	59.1	6.367		
1,000.0	989.8	1,011.0	1,005.7	7.4	6.2	-168.41	-6.7	-42.3	78.2	65.7	6.271		
1,100.0	1,084.9	1,114.3	1,105.8	8.1	7.0	-167.21	5.7	-64.6	86.3	72.5	6.242		
1,200.0	1,178.6	1,217.9	1,205.0	8.8	7.7	-165.72	21.7	-90.0	94.6	79.5	6.256		
1,300.0	1,270.7	1,321.8	1,303.0	9.4	8.4	-164.04	41.1	-118.3	103.0	86.7	6.299		
1,400.0	1,361.1	1,426.0	1,399.8	10.1	9.1	-162.23	63.9	-149.5	111.5	94.0	6.359		
1,500.0	1,449.6	1,530.6	1,495.1	10.7	9.8	-160.33	90.3	-183.7	120.2	101.5	6.429		
1,600.0	1,536.0	1,635.5	1,588.5	11.3	10.3	-158.38	120.0	-220.7	129.1	109.4	6.532		
1,700.0	1,620.4	1,735.7	1,676.5	11.6	10.7	-156.44	150.5	-257.7	139.1	118.6	6.791		
1,800.0	1,704.6	1,835.0	1,763.8	12.0	11.0	-154.62	180.7	-294.4	149.6	128.3	7.017		
1,900.0	1,788.8	1,934.3	1,851.0	12.4	11.4	-153.04	211.0	-331.1	160.3	138.0	7.193		
2,000.0	1,873.1	2,033.7	1,938.2	12.8	11.8	-151.65	241.2	-367.8	171.1	147.7	7.329		
2,100.0	1,957.3	2,133.0	2,025.4	13.3	12.2	-150.43	271.5	-404.5	181.9	157.4	7.436		
2,200.0	2,041.5	2,232.4	2,112.6	14.0	12.8	-149.35	301.7	-441.2	192.8	167.1	7.506		
2,300.0	2,125.7	2,331.7	2,199.8	14.8	13.4	-148.38	331.9	-477.9	203.8	176.9	7.562		
2,400.0	2,209.9	2,431.0	2,287.0	15.7	14.2	-147.52	362.2	-514.6	214.9	186.6	7.599		
2,500.0	2,294.1	2,530.4	2,374.3	16.7	15.0	-146.74	392.4	-551.3	226.0	196.3	7.624		
2,600.0	2,378.4	2,629.7	2,461.5	17.7	15.8	-146.03	422.6	-588.0	237.1	206.0	7.638		
2,700.0	2,462.6	2,729.0	2,548.7	18.6	16.6	-145.38	452.9	-624.7	248.2	215.8	7.644		
2,800.0	2,546.8	2,828.4	2,635.9	19.6	17.5	-144.79	483.1	-661.4	259.4	225.5	7.644		
2,900.0	2,631.0	2,927.7	2,723.1	20.6	18.4	-144.25	513.4	-698.1	270.6	235.2	7.640		
3,000.0	2,715.2	3,027.1	2,810.3	21.6	19.2	-143.75	543.6	-734.8	281.9	244.9	7.632		
3,100.0	2,799.4	3,126.4	2,897.5	22.6	20.1	-143.29	573.8	-771.6	293.1	254.7	7.621		
3,200.0	2,883.6	3,225.7	2,984.8	23.7	21.0	-142.87	604.1	-808.3	304.4	264.4	7.608		
3,300.0	2,967.9	3,325.1	3,072.0	24.7	21.9	-142.47	634.3	-845.0	315.7	274.1	7.595		
3,400.0	3,052.1	3,424.4	3,159.2	25.7	22.7	-142.10	664.5	-881.7	327.0	283.8	7.580		
3,500.0	3,136.3	3,523.8	3,246.4	26.7	23.6	-141.76	694.8	-918.4	338.3	293.6	7.564		
3,600.0	3,220.5	3,623.1	3,333.6	27.7	24.5	-141.44	725.0	-955.1	349.6	303.3	7.549		
3,700.0	3,304.7	3,722.4	3,420.8	28.7	25.4	-141.14	755.3	-991.8	360.9	313.0	7.533		
3,800.0	3,388.9	3,821.8	3,508.1	29.7	26.3	-140.86	785.5	-1,028.5	372.3	322.7	7.517		
3,900.0	3,473.2	3,921.1	3,595.3	30.8	27.2	-140.59	815.7	-1,065.2	383.6	332.5	7.501		
4,000.0	3,557.4	4,020.4	3,682.5	31.8	28.1	-140.34	846.0	-1,101.9	395.0	342.2	7.485		
4,100.0	3,641.6	4,119.8	3,769.7	32.8	29.0	-140.10	876.2	-1,138.6	406.3	351.9	7.470		
4,200.0	3,725.8	4,219.1	3,856.9	33.8	29.9	-139.88	906.4	-1,175.3	417.7	361.7	7.454		
4,300.0	3,810.0	4,318.5	3,944.1	34.8	30.8	-139.67	936.7	-1,212.0	429.1	371.4	7.440		
4,400.0	3,894.2	4,417.8	4,031.3	35.9	31.7	-139.47	966.9	-1,248.8	440.5	381.1	7.425		
4,500.0	3,978.4	4,517.1	4,118.6	36.9	32.6	-139.27	997.2	-1,285.5	451.8	390.9	7.411		
4,600.0	4,062.7	4,616.5	4,205.8	37.9	33.5	-139.09	1,027.4	-1,322.2	463.2	400.6	7.397		
4,700.0	4,146.9	4,715.8	4,293.0	38.9	34.4	-138.92	1,057.6	-1,358.9	474.6	410.4	7.384		
4,800.0	4,231.1	4,815.2	4,380.2	40.0	35.3	-138.76	1,087.9	-1,395.6	486.0	420.1	7.371		
4,900.0	4,315.3	4,914.5	4,467.4	41.0	36.2	-138.60	1,118.1	-1,432.3	497.4	429.8	7.358		
5,000.0	4,399.5	5,013.8	4,554.6	42.0	37.1	-138.45	1,148.3	-1,469.0	508.8	439.6	7.346		

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 Laramie 0993-20-13E - Slot A-5
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-13E	<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>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
5,100.0	4,483.7	5,113.2	4,641.8	43.0	38.0	-138.30	1,178.6	-1,505.7	520.3	449.3	7.334		
5,200.0	4,567.9	5,212.5	4,729.1	44.1	38.9	-138.17	1,208.8	-1,542.4	531.7	459.1	7.323		
5,300.0	4,652.2	5,311.8	4,816.3	45.1	39.8	-138.04	1,239.0	-1,579.1	543.1	468.8	7.311		
5,400.0	4,736.4	5,411.2	4,903.5	46.1	40.7	-137.91	1,269.3	-1,615.8	554.5	478.6	7.301		
5,500.0	4,820.6	5,500.0	4,981.5	47.1	41.5	-137.81	1,296.3	-1,648.6	566.1	488.6	7.306		
5,600.0	4,905.5	5,591.9	5,063.5	48.1	42.3	-138.00	1,322.7	-1,680.6	578.4	499.5	7.326		
5,700.0	4,992.6	5,677.5	5,141.2	49.0	43.0	-138.22	1,345.4	-1,708.2	590.0	509.7	7.349		
5,800.0	5,081.8	5,763.0	5,220.2	49.9	43.6	-138.43	1,366.2	-1,733.5	600.6	519.1	7.371		
5,900.0	5,172.9	5,848.3	5,300.1	50.6	44.1	-138.61	1,385.1	-1,756.5	610.3	527.8	7.391		
6,000.0	5,265.6	5,933.5	5,381.1	51.3	44.6	-138.78	1,402.1	-1,777.1	619.1	535.6	7.411		
6,100.0	5,360.0	6,018.6	5,462.8	51.9	45.0	-138.93	1,417.2	-1,795.4	627.0	542.6	7.431		
6,200.0	5,455.6	6,100.0	5,541.8	52.4	45.4	-139.07	1,429.7	-1,810.6	633.9	548.9	7.456		
6,300.0	5,552.5	6,188.5	5,628.4	52.8	45.7	-139.19	1,441.4	-1,824.8	639.9	554.2	7.468		
6,400.0	5,650.3	6,273.4	5,712.0	53.2	45.9	-139.30	1,450.5	-1,835.9	644.9	558.7	7.486		
6,500.0	5,749.0	6,358.2	5,796.0	53.4	46.1	-139.39	1,457.7	-1,844.6	648.9	562.4	7.503		
6,600.0	5,848.2	6,442.9	5,880.4	53.6	46.2	-139.46	1,462.9	-1,850.9	652.0	565.2	7.519		
6,700.0	5,947.9	6,527.6	5,964.9	53.8	46.3	-139.52	1,466.1	-1,854.8	654.0	567.2	7.535		
6,800.0	6,047.9	6,612.3	6,049.6	53.8	46.4	-139.57	1,467.3	-1,856.2	655.1	568.4	7.552		
6,900.0	6,147.9	6,710.6	6,147.9	53.9	46.4	-179.82	1,467.3	-1,856.3	655.2	568.5	7.552		
7,000.0	6,247.9	6,810.6	6,247.9	53.9	46.4	-179.82	1,467.3	-1,856.3	655.2	568.4	7.548		
7,100.0	6,347.9	6,910.6	6,347.9	53.9	46.5	-179.82	1,467.3	-1,856.3	655.2	568.4	7.543		
7,200.0	6,447.9	7,010.6	6,447.9	53.9	46.5	-179.82	1,467.3	-1,856.3	655.2	568.3	7.538		
7,300.0	6,547.9	7,110.6	6,547.9	53.9	46.5	-179.82	1,467.3	-1,856.3	655.2	568.3	7.534		
7,400.0	6,647.9	7,210.6	6,647.9	53.9	46.5	-179.82	1,467.3	-1,856.3	655.2	568.2	7.529		
7,500.0	6,747.9	7,310.6	6,747.9	54.0	46.5	-179.82	1,467.3	-1,856.3	655.2	568.1	7.524		
7,600.0	6,847.9	7,410.6	6,847.9	54.0	46.6	-179.82	1,467.3	-1,856.3	655.2	568.1	7.519		
7,700.0	6,947.9	7,510.6	6,947.9	54.0	46.6	-179.82	1,467.3	-1,856.3	655.2	568.0	7.514		
7,800.0	7,047.9	7,610.6	7,047.9	54.0	46.6	-179.82	1,467.3	-1,856.3	655.2	568.0	7.510		
7,900.0	7,147.9	7,710.6	7,147.9	54.0	46.6	-179.82	1,467.3	-1,856.3	655.2	567.9	7.505		
8,000.0	7,247.9	7,810.6	7,247.9	54.1	46.7	-179.82	1,467.3	-1,856.3	655.2	567.9	7.500		
8,100.0	7,347.9	7,910.6	7,347.9	54.1	46.7	-179.82	1,467.3	-1,856.3	655.2	567.8	7.495		
8,200.0	7,447.9	8,010.6	7,447.9	54.1	46.7	-179.82	1,467.3	-1,856.3	655.2	567.8	7.490		
8,300.0	7,547.9	8,110.6	7,547.9	54.1	46.7	-179.82	1,467.3	-1,856.3	655.2	567.7	7.485		
8,400.0	7,647.9	8,210.6	7,647.9	54.1	46.8	-179.82	1,467.3	-1,856.3	655.2	567.6	7.480		
8,500.0	7,747.9	8,310.6	7,747.9	54.2	46.8	-179.82	1,467.3	-1,856.3	655.2	567.6	7.475		
8,511.3	7,759.2	8,321.9	7,759.2	54.2	46.8	-179.82	1,467.3	-1,856.3	655.2	567.6	7.475		
8,600.0	7,847.9	8,396.7	7,834.0	54.2	46.8	-179.82	1,467.3	-1,856.3	655.4	568.0	7.504		
8,601.1	7,849.0	8,396.7	7,834.0	54.2	46.8	-179.82	1,467.3	-1,856.3	655.4	568.1	7.507		

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 Laramie 0993-20-13E - Slot A-5
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-13E	<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>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	133.33	-32.9	34.9	48.0				
100.0	100.0	100.0	100.0	0.4	0.4	133.33	-32.9	34.9	48.0	47.2	60.589		
200.0	200.0	200.0	200.0	1.2	1.2	133.33	-32.9	34.9	48.0	45.5	19.425	CC	
207.4	207.4	207.4	207.4	1.3	1.3	-154.67	-32.9	34.9	48.0	45.5	18.909		
300.0	300.0	300.0	300.0	1.6	1.7	-154.68	-32.9	34.9	48.0	44.6	14.196	ES	
400.0	400.0	400.0	400.0	2.5	2.1	-155.93	-32.9	34.9	50.4	45.8	10.999		
500.0	499.7	499.7	499.7	4.0	2.5	-158.74	-32.9	34.9	56.8	50.5	8.995		
600.0	599.1	601.4	601.4	4.6	3.1	-164.54	-32.9	32.7	65.7	58.3	8.867		
700.0	697.9	703.5	703.2	5.1	4.4	-172.14	-32.9	25.9	75.3	66.4	8.487		
800.0	796.1	805.6	804.7	5.9	5.4	-173.96	-32.9	14.6	85.5	75.2	8.292	SF	
900.0	893.5	908.6	906.6	6.6	5.7	-173.02	-31.7	-0.9	96.7	85.5	8.657		
1,000.0	989.8	1,012.4	1,008.4	7.4	6.3	-171.45	-27.3	-19.8	108.2	95.8	8.753		
1,100.0	1,084.9	1,116.5	1,109.9	8.1	7.0	-169.55	-19.5	-42.1	119.9	106.3	8.818		
1,200.0	1,178.6	1,221.2	1,210.7	8.8	7.7	-167.46	-8.4	-67.7	132.0	117.2	8.928		
1,300.0	1,270.7	1,326.3	1,310.7	9.4	8.4	-165.27	6.1	-96.6	144.4	128.5	9.065		
1,400.0	1,361.1	1,431.8	1,409.6	10.1	9.1	-163.02	23.9	-128.9	157.2	140.2	9.217		
1,500.0	1,449.6	1,537.7	1,507.1	10.7	9.7	-160.74	45.1	-164.5	170.3	152.2	9.373		
1,600.0	1,536.0	1,643.4	1,602.4	11.3	10.2	-158.48	69.5	-203.0	183.8	164.7	9.586		
1,700.0	1,620.4	1,741.9	1,690.4	11.6	10.5	-156.45	93.5	-240.0	199.5	179.6	10.031		
1,800.0	1,704.6	1,840.3	1,778.4	12.0	10.9	-154.57	117.5	-277.1	215.9	195.2	10.417		
1,900.0	1,788.8	1,938.7	1,866.3	12.4	11.2	-152.96	141.5	-314.1	232.5	210.8	10.723		
2,000.0	1,873.1	2,037.1	1,954.3	12.8	11.6	-151.56	165.5	-351.2	249.2	226.5	10.963		
2,100.0	1,957.3	2,135.5	2,042.2	13.3	12.0	-150.34	189.5	-388.2	266.1	242.2	11.151		
2,200.0	2,041.5	2,234.0	2,130.2	14.0	12.5	-149.26	213.5	-425.3	283.1	258.0	11.293		
2,300.0	2,125.7	2,332.4	2,218.2	14.8	13.0	-148.31	237.5	-462.4	300.1	273.8	11.401		
2,400.0	2,209.9	2,430.8	2,306.1	15.7	13.6	-147.45	261.5	-499.4	317.2	289.6	11.483		
2,500.0	2,294.1	2,529.2	2,394.1	16.7	14.2	-146.69	285.5	-536.5	334.4	305.5	11.543		
2,600.0	2,378.4	2,627.6	2,482.1	17.7	14.9	-146.00	309.4	-573.5	351.7	321.3	11.586		
2,700.0	2,462.6	2,726.0	2,570.0	18.6	15.7	-145.37	333.4	-610.6	369.0	337.2	11.615		
2,800.0	2,546.8	2,824.5	2,658.0	19.6	16.4	-144.80	357.4	-647.6	386.3	353.1	11.634		
2,900.0	2,631.0	2,922.9	2,746.0	20.6	17.2	-144.28	381.4	-684.7	403.6	369.0	11.644		
3,000.0	2,715.2	3,021.3	2,833.9	21.6	18.0	-143.80	405.4	-721.7	421.0	384.9	11.649		
3,100.0	2,799.4	3,119.7	2,921.9	22.6	18.8	-143.36	429.4	-758.8	438.4	400.8	11.648		
3,200.0	2,883.6	3,218.1	3,009.9	23.7	19.6	-142.96	453.4	-795.8	455.9	416.7	11.644		
3,300.0	2,967.9	3,316.6	3,097.8	24.7	20.4	-142.58	477.4	-832.9	473.3	432.7	11.636		
3,400.0	3,052.1	3,415.0	3,185.8	25.7	21.3	-142.23	501.4	-869.9	490.8	448.6	11.627		
3,500.0	3,136.3	3,513.4	3,273.8	26.7	22.1	-141.90	525.3	-907.0	508.3	464.5	11.615		
3,600.0	3,220.5	3,611.8	3,361.7	27.7	22.9	-141.60	549.3	-944.0	525.8	480.5	11.603		
3,700.0	3,304.7	3,710.2	3,449.7	28.7	23.7	-141.31	573.3	-981.1	543.3	496.5	11.590		
3,800.0	3,388.9	3,808.6	3,537.6	29.7	24.6	-141.05	597.3	-1,018.1	560.9	512.4	11.576		
3,900.0	3,473.2	3,907.1	3,625.6	30.8	25.4	-140.80	621.3	-1,055.2	578.4	528.4	11.561		
4,000.0	3,557.4	4,005.5	3,713.6	31.8	26.2	-140.56	645.3	-1,092.3	596.0	544.4	11.547		
4,100.0	3,641.6	4,103.9	3,801.5	32.8	27.0	-140.34	669.3	-1,129.3	613.5	560.3	11.532		
4,200.0	3,725.8	4,202.3	3,889.5	33.8	27.9	-140.13	693.3	-1,166.4	631.1	576.3	11.517		
4,300.0	3,810.0	4,300.7	3,977.5	34.8	28.7	-139.93	717.3	-1,203.4	648.7	592.3	11.502		
4,400.0	3,894.2	4,399.2	4,065.4	35.9	29.5	-139.74	741.2	-1,240.5	666.3	608.3	11.488		
4,500.0	3,978.4	4,497.6	4,153.4	36.9	30.4	-139.56	765.2	-1,277.5	683.9	624.3	11.474		
4,600.0	4,062.7	4,596.0	4,241.4	37.9	31.2	-139.39	789.2	-1,314.6	701.5	640.3	11.459		
4,700.0	4,146.9	4,694.4	4,329.3	38.9	32.0	-139.23	813.2	-1,351.6	719.1	656.3	11.445		
4,800.0	4,231.1	4,792.8	4,417.3	40.0	32.9	-139.08	837.2	-1,388.7	736.7	672.3	11.432		
4,900.0	4,315.3	4,891.2	4,505.3	41.0	33.7	-138.93	861.2	-1,425.7	754.3	688.3	11.419		
5,000.0	4,399.5	4,989.7	4,593.2	42.0	34.6	-138.79	885.2	-1,462.8	771.9	704.3	11.405		

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 Laramie 0993-20-13E - Slot A-5
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-13E	<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>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design											Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard											Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning
5,100.0	4,483.7	5,088.1	4,681.2	43.0	35.4	-138.66	909.2	-1,499.8	789.6	720.3	11.393	
5,200.0	4,567.9	5,186.5	4,769.1	44.1	36.2	-138.53	933.2	-1,536.9	807.2	736.3	11.380	
5,300.0	4,652.2	5,284.9	4,857.1	45.1	37.1	-138.41	957.2	-1,573.9	824.8	752.3	11.368	
5,400.0	4,736.4	5,383.3	4,945.1	46.1	37.9	-138.29	981.1	-1,611.0	842.5	768.3	11.356	
5,500.0	4,820.6	5,479.7	5,031.2	47.1	38.7	-138.18	1,004.6	-1,647.2	860.1	784.3	11.350	
5,600.0	4,905.5	5,561.1	5,104.7	48.1	39.4	-138.38	1,023.6	-1,676.5	878.0	800.9	11.387	
5,700.0	4,992.6	5,642.4	5,179.4	49.0	40.0	-138.63	1,041.1	-1,703.6	894.6	816.2	11.414	
5,800.0	5,081.8	5,723.6	5,255.1	49.9	40.5	-138.85	1,057.1	-1,728.4	909.9	830.3	11.438	
5,900.0	5,172.9	5,800.0	5,327.1	50.6	41.0	-139.06	1,070.9	-1,749.6	923.9	843.3	11.471	
6,000.0	5,265.6	5,886.0	5,409.2	51.3	41.4	-139.25	1,084.8	-1,771.1	936.5	855.0	11.483	
6,100.0	5,360.0	5,967.0	5,487.4	51.9	41.8	-139.42	1,096.3	-1,788.9	947.8	865.4	11.505	
6,200.0	5,455.6	6,048.1	5,566.3	52.4	42.1	-139.57	1,106.4	-1,804.5	957.7	874.6	11.526	
6,300.0	5,552.5	6,129.1	5,645.8	52.8	42.4	-139.70	1,114.9	-1,817.6	966.3	882.6	11.545	
6,400.0	5,650.3	6,210.1	5,725.7	53.2	42.6	-139.82	1,121.9	-1,828.4	973.4	889.2	11.562	
6,500.0	5,749.0	6,300.0	5,815.0	53.4	42.8	-139.92	1,127.9	-1,837.6	979.2	894.5	11.559	
6,600.0	5,848.2	6,371.9	5,886.7	53.6	42.9	-140.00	1,131.3	-1,842.9	983.5	898.7	11.595	
6,700.0	5,947.9	6,452.8	5,967.4	53.8	43.0	-140.07	1,133.6	-1,846.5	986.5	901.5	11.610	
6,800.0	6,047.9	6,535.4	6,050.0	53.8	43.1	-140.12	1,134.4	-1,847.8	988.0	903.0	11.624	
6,900.0	6,147.9	6,633.3	6,147.9	53.9	43.1	179.63	1,134.4	-1,847.8	988.1	903.1	11.623	
7,000.0	6,247.9	6,733.3	6,247.9	53.9	43.1	179.63	1,134.4	-1,847.8	988.1	903.1	11.615	
7,100.0	6,347.9	6,833.3	6,347.9	53.9	43.1	179.63	1,134.4	-1,847.8	988.1	903.0	11.608	
7,200.0	6,447.9	6,933.3	6,447.9	53.9	43.2	179.63	1,134.4	-1,847.8	988.1	903.0	11.600	
7,300.0	6,547.9	7,033.3	6,547.9	53.9	43.2	179.63	1,134.4	-1,847.8	988.1	902.9	11.593	
7,400.0	6,647.9	7,133.3	6,647.9	53.9	43.2	179.63	1,134.4	-1,847.8	988.1	902.8	11.585	
7,500.0	6,747.9	7,233.3	6,747.9	54.0	43.2	179.63	1,134.4	-1,847.8	988.1	902.8	11.577	
7,600.0	6,847.9	7,333.3	6,847.9	54.0	43.3	179.63	1,134.4	-1,847.8	988.1	902.7	11.570	
7,700.0	6,947.9	7,433.3	6,947.9	54.0	43.3	179.63	1,134.4	-1,847.8	988.1	902.7	11.562	
7,800.0	7,047.9	7,533.3	7,047.9	54.0	43.3	179.63	1,134.4	-1,847.8	988.1	902.6	11.554	
7,900.0	7,147.9	7,633.3	7,147.9	54.0	43.3	179.63	1,134.4	-1,847.8	988.1	902.6	11.547	
8,000.0	7,247.9	7,733.3	7,247.9	54.1	43.4	179.63	1,134.4	-1,847.8	988.1	902.5	11.539	
8,100.0	7,347.9	7,833.3	7,347.9	54.1	43.4	179.63	1,134.4	-1,847.8	988.1	902.4	11.531	
8,200.0	7,447.9	7,933.3	7,447.9	54.1	43.4	179.63	1,134.4	-1,847.8	988.1	902.4	11.523	
8,300.0	7,547.9	8,033.3	7,547.9	54.1	43.5	179.63	1,134.4	-1,847.8	988.1	902.3	11.515	
8,400.0	7,647.9	8,133.3	7,647.9	54.1	43.5	179.63	1,134.4	-1,847.8	988.1	902.3	11.507	
8,500.0	7,747.9	8,233.3	7,747.9	54.2	43.5	179.63	1,134.4	-1,847.8	988.1	902.2	11.499	
8,600.0	7,847.9	8,333.3	7,847.9	54.2	43.5	179.63	1,134.4	-1,847.8	988.1	902.2	11.492	
8,601.1	7,849.0	8,334.4	7,849.0	54.2	43.5	179.63	1,134.4	-1,847.8	988.1	902.2	11.491	

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 Laramie 0993-20-13E - Slot A-5
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-13E	<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>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	133.32	-43.9	46.5	63.9				
100.0	100.0	100.0	100.0	0.4	0.4	133.32	-43.9	46.5	63.9	63.1	80.721		
200.0	200.0	200.0	200.0	1.2	1.2	133.32	-43.9	46.5	63.9	61.5	25.880	CC	
207.4	207.4	207.4	207.4	1.3	1.3	-154.68	-43.9	46.5	63.9	61.4	25.191		
300.0	300.0	300.0	300.0	1.6	1.7	-154.69	-43.9	46.5	64.0	60.6	18.911	ES	
400.0	400.0	401.4	401.4	2.5	2.1	-154.84	-44.0	45.2	65.5	61.0	14.606		
500.0	499.7	503.4	503.2	4.0	3.5	-153.80	-44.5	39.6	68.1	61.4	10.217		
600.0	599.1	605.2	604.5	4.6	4.7	-155.12	-45.4	29.5	71.8	64.0	9.218		
700.0	697.9	707.8	706.0	5.1	5.1	-159.34	-46.0	14.9	76.9	68.6	9.288		
800.0	796.1	810.8	807.4	5.9	5.6	-159.75	-44.1	-3.4	82.5	73.1	8.750		
900.0	893.5	914.0	908.1	6.6	6.4	-158.11	-39.4	-25.3	88.8	78.2	8.346		
1,000.0	989.8	1,017.1	1,007.8	7.4	7.1	-155.30	-31.9	-50.7	96.0	84.4	8.237	SF	
1,100.0	1,084.9	1,120.2	1,106.2	8.1	7.8	-151.84	-21.5	-79.6	104.4	91.8	8.308		
1,200.0	1,178.6	1,223.3	1,203.2	8.8	8.5	-148.07	-8.3	-112.0	114.0	100.6	8.494		
1,300.0	1,270.7	1,326.3	1,298.5	9.4	9.1	-144.23	7.6	-147.6	125.0	110.8	8.784		
1,400.0	1,361.1	1,425.5	1,389.2	10.1	9.4	-141.12	24.5	-184.0	138.6	123.5	9.194		
1,500.0	1,449.6	1,523.8	1,479.1	10.7	9.8	-139.33	41.3	-220.0	156.3	140.1	9.668		
1,600.0	1,536.0	1,621.4	1,568.3	11.3	10.1	-138.61	58.0	-255.7	177.8	160.4	10.196		
1,700.0	1,620.4	1,718.3	1,657.0	11.6	10.5	-138.48	74.6	-291.2	202.4	183.8	10.876		
1,800.0	1,704.6	1,815.1	1,745.5	12.0	10.9	-138.35	91.2	-326.7	227.4	207.6	11.463		
1,900.0	1,788.8	1,912.0	1,834.1	12.4	11.3	-138.26	107.8	-362.2	252.4	231.3	11.955		
2,000.0	1,873.1	2,008.8	1,922.6	12.8	11.7	-138.18	124.3	-397.7	277.4	255.0	12.373		
2,100.0	1,957.3	2,105.6	2,011.2	13.3	12.1	-138.11	140.9	-433.2	302.4	278.6	12.729		
2,200.0	2,041.5	2,202.4	2,099.8	14.0	12.6	-138.05	157.5	-468.7	327.3	302.2	13.035		
2,300.0	2,125.7	2,299.3	2,188.3	14.8	13.1	-138.01	174.0	-504.1	352.3	325.8	13.299		
2,400.0	2,209.9	2,396.1	2,276.9	15.7	13.7	-137.96	190.6	-539.6	377.3	349.4	13.530		
2,500.0	2,294.1	2,492.9	2,365.4	16.7	14.3	-137.93	207.2	-575.1	402.3	373.0	13.731		
2,600.0	2,378.4	2,589.8	2,454.0	17.7	14.9	-137.89	223.7	-610.6	427.2	396.5	13.908		
2,700.0	2,462.6	2,686.6	2,542.5	18.6	15.6	-137.86	240.3	-646.1	452.2	420.1	14.065		
2,800.0	2,546.8	2,783.4	2,631.1	19.6	16.3	-137.84	256.9	-681.6	477.2	443.6	14.205		
2,900.0	2,631.0	2,880.2	2,719.7	20.6	17.0	-137.82	273.4	-717.1	502.2	467.1	14.329		
3,000.0	2,715.2	2,977.1	2,808.2	21.6	17.7	-137.79	290.0	-752.5	527.2	490.7	14.441		
3,100.0	2,799.4	3,073.9	2,896.8	22.6	18.4	-137.78	306.6	-788.0	552.2	514.2	14.542		
3,200.0	2,883.6	3,170.7	2,985.3	23.7	19.1	-137.76	323.1	-823.5	577.1	537.7	14.633		
3,300.0	2,967.9	3,267.6	3,073.9	24.7	19.8	-137.74	339.7	-859.0	602.1	561.2	14.716		
3,400.0	3,052.1	3,364.4	3,162.4	25.7	20.6	-137.73	356.3	-894.5	627.1	584.7	14.792		
3,500.0	3,136.3	3,461.2	3,251.0	26.7	21.3	-137.71	372.9	-930.0	652.1	608.2	14.861		
3,600.0	3,220.5	3,558.1	3,339.5	27.7	22.0	-137.70	389.4	-965.4	677.1	631.7	14.924		
3,700.0	3,304.7	3,654.9	3,428.1	28.7	22.7	-137.69	406.0	-1,000.9	702.0	655.2	14.982		
3,800.0	3,388.9	3,751.7	3,516.7	29.7	23.5	-137.68	422.6	-1,036.4	727.0	678.7	15.036		
3,900.0	3,473.2	3,848.5	3,605.2	30.8	24.2	-137.67	439.1	-1,071.9	752.0	702.1	15.086		
4,000.0	3,557.4	3,945.4	3,693.8	31.8	24.9	-137.66	455.7	-1,107.4	777.0	725.6	15.132		
4,100.0	3,641.6	4,042.2	3,782.3	32.8	25.7	-137.65	472.3	-1,142.9	802.0	749.1	15.174		
4,200.0	3,725.8	4,139.0	3,870.9	33.8	26.4	-137.64	488.8	-1,178.4	826.9	772.6	15.214		
4,300.0	3,810.0	4,235.9	3,959.4	34.8	27.1	-137.63	505.4	-1,213.8	851.9	796.1	15.251		
4,400.0	3,894.2	4,332.7	4,048.0	35.9	27.9	-137.63	522.0	-1,249.3	876.9	819.5	15.286		
4,500.0	3,978.4	4,429.5	4,136.6	36.9	28.6	-137.62	538.5	-1,284.8	901.9	843.0	15.319		
4,600.0	4,062.7	4,526.3	4,225.1	37.9	29.3	-137.61	555.1	-1,320.3	926.9	866.5	15.349		
4,700.0	4,146.9	4,623.2	4,313.7	38.9	30.1	-137.60	571.7	-1,355.8	951.8	889.9	15.378		
4,800.0	4,231.1	4,720.0	4,402.2	40.0	30.8	-137.60	588.2	-1,391.3	976.8	913.4	15.405		
4,900.0	4,315.3	4,816.8	4,490.8	41.0	31.5	-137.59	604.8	-1,426.7	1,001.8	936.9	15.430		
5,000.0	4,399.5	4,913.7	4,579.3	42.0	32.3	-137.59	621.4	-1,462.2	1,026.8	960.3	15.454		

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 Laramie 0993-20-13E - Slot A-5
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-13E	<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>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
5,100.0	4,483.7	5,010.5	4,667.9	43.0	33.0	-137.58	638.0	-1,497.7	1,051.8	983.8	15.477		
5,200.0	4,567.9	5,107.3	4,756.4	44.1	33.8	-137.58	654.5	-1,533.2	1,076.8	1,007.3	15.498		
5,300.0	4,652.2	5,204.2	4,845.0	45.1	34.5	-137.57	671.1	-1,568.7	1,101.7	1,030.7	15.519		
5,400.0	4,736.4	5,301.0	4,933.6	46.1	35.2	-137.57	687.7	-1,604.2	1,126.7	1,054.2	15.538		
5,500.0	4,820.6	5,397.8	5,022.1	47.1	36.0	-137.56	704.2	-1,639.7	1,151.7	1,077.7	15.556		
5,600.0	4,905.5	5,494.9	5,110.9	48.1	36.7	-137.84	720.8	-1,675.2	1,175.7	1,100.1	15.561		
5,700.0	4,992.6	5,575.5	5,185.1	49.0	37.3	-138.11	734.1	-1,703.7	1,197.3	1,120.4	15.582		
5,800.0	5,081.8	5,655.4	5,259.8	49.9	37.8	-138.36	746.2	-1,729.6	1,217.2	1,139.1	15.601		
5,900.0	5,172.9	5,735.4	5,335.4	50.6	38.3	-138.58	757.2	-1,753.2	1,235.3	1,156.2	15.617		
6,000.0	5,265.6	5,815.5	5,412.0	51.3	38.7	-138.79	767.1	-1,774.3	1,251.7	1,171.6	15.632		
6,100.0	5,360.0	5,900.0	5,493.7	51.9	39.1	-138.97	776.3	-1,794.0	1,266.3	1,185.4	15.636		
6,200.0	5,455.6	5,976.0	5,567.7	52.4	39.4	-139.14	783.5	-1,809.4	1,279.2	1,197.5	15.661		
6,300.0	5,552.5	6,056.3	5,646.6	52.8	39.7	-139.29	789.9	-1,823.2	1,290.2	1,207.9	15.674		
6,400.0	5,650.3	6,136.7	5,726.0	53.2	39.9	-139.42	795.2	-1,834.5	1,299.4	1,216.6	15.685		
6,500.0	5,749.0	6,217.1	5,805.8	53.4	40.1	-139.53	799.3	-1,843.3	1,306.8	1,223.6	15.693		
6,600.0	5,848.2	6,300.0	5,888.4	53.6	40.2	-139.62	802.3	-1,849.7	1,312.4	1,228.8	15.695		
6,700.0	5,947.9	6,378.0	5,966.3	53.8	40.3	-139.69	803.9	-1,853.2	1,316.1	1,232.3	15.708		
6,800.0	6,047.9	6,459.6	6,047.9	53.8	40.3	-139.75	804.5	-1,854.3	1,318.0	1,234.1	15.716		
6,900.0	6,147.9	6,559.6	6,147.9	53.9	40.4	-180.00	804.5	-1,854.3	1,318.1	1,234.2	15.707		
7,000.0	6,247.9	6,659.6	6,247.9	53.9	40.4	-180.00	804.5	-1,854.3	1,318.1	1,234.1	15.697		
7,100.0	6,347.9	6,759.6	6,347.9	53.9	40.4	-180.00	804.5	-1,854.3	1,318.1	1,234.1	15.686		
7,200.0	6,447.9	6,859.6	6,447.9	53.9	40.4	-180.00	804.5	-1,854.3	1,318.1	1,234.0	15.676		
7,300.0	6,547.9	6,959.6	6,547.9	53.9	40.5	-180.00	804.5	-1,854.3	1,318.1	1,234.0	15.666		
7,400.0	6,647.9	7,059.6	6,647.9	53.9	40.5	-180.00	804.5	-1,854.3	1,318.1	1,233.9	15.655		
7,500.0	6,747.9	7,159.6	6,747.9	54.0	40.5	-180.00	804.5	-1,854.3	1,318.1	1,233.9	15.645		
7,600.0	6,847.9	7,259.6	6,847.9	54.0	40.6	-180.00	804.5	-1,854.3	1,318.1	1,233.8	15.634		
7,700.0	6,947.9	7,359.6	6,947.9	54.0	40.6	-180.00	804.5	-1,854.3	1,318.1	1,233.7	15.623		
7,800.0	7,047.9	7,459.6	7,047.9	54.0	40.6	-180.00	804.5	-1,854.3	1,318.1	1,233.7	15.613		
7,900.0	7,147.9	7,559.6	7,147.9	54.0	40.6	-180.00	804.5	-1,854.3	1,318.1	1,233.6	15.602		
8,000.0	7,247.9	7,659.6	7,247.9	54.1	40.7	-180.00	804.5	-1,854.3	1,318.1	1,233.6	15.591		
8,100.0	7,347.9	7,759.6	7,347.9	54.1	40.7	-180.00	804.5	-1,854.3	1,318.1	1,233.5	15.581		
8,200.0	7,447.9	7,859.6	7,447.9	54.1	40.7	-180.00	804.5	-1,854.3	1,318.1	1,233.4	15.570		
8,300.0	7,547.9	7,959.6	7,547.9	54.1	40.8	-180.00	804.5	-1,854.3	1,318.1	1,233.4	15.559		
8,400.0	7,647.9	8,059.6	7,647.9	54.1	40.8	-180.00	804.5	-1,854.3	1,318.1	1,233.3	15.548		
8,500.0	7,747.9	8,159.6	7,747.9	54.2	40.8	-180.00	804.5	-1,854.3	1,318.1	1,233.3	15.537		
8,501.8	7,749.7	8,161.4	7,749.7	54.2	40.8	-180.00	804.5	-1,854.3	1,318.1	1,233.3	15.537		
8,600.0	7,847.9	8,228.7	7,817.0	54.2	40.8	-180.00	804.5	-1,854.3	1,318.5	1,233.9	15.596		
8,601.1	7,849.0	8,228.7	7,817.0	54.2	40.8	-180.00	804.5	-1,854.3	1,318.5	1,234.0	15.599		

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



Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Laramie 0993-20-13E - Slot A-5
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-13E	<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>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	133.30	-54.8	58.1	79.9				
100.0	100.0	100.0	100.0	0.4	0.4	133.30	-54.8	58.1	79.9	79.1	100.852		
200.0	200.0	200.0	200.0	1.2	1.2	133.30	-54.8	58.1	79.9	77.4	32.334		
300.0	300.0	301.0	301.0	1.6	1.5	-154.37	-54.9	57.6	79.6	76.4	25.324		
357.7	357.7	359.8	359.8	2.2	2.3	-153.46	-55.3	55.6	79.3	75.3	19.707	CC	
400.0	400.0	402.9	402.8	2.5	2.9	-152.51	-55.8	53.1	79.5	74.8	17.036		
500.0	499.7	504.7	504.1	4.0	4.3	-149.41	-57.7	44.3	81.0	74.4	12.311	ES	
600.0	599.1	606.1	604.7	4.6	5.4	-148.81	-60.5	31.1	84.4	77.1	11.558		
700.0	697.9	709.2	706.3	5.1	5.7	-151.89	-62.7	13.6	89.6	81.8	11.468		
800.0	796.1	812.3	807.1	5.9	6.3	-151.38	-62.3	-7.8	95.9	86.9	10.604		
900.0	893.5	915.2	906.9	6.6	7.0	-148.93	-59.4	-32.8	103.7	93.5	10.224		
1,000.0	989.8	1,018.0	1,005.4	7.4	7.7	-145.49	-54.0	-61.6	113.1	102.0	10.189	SF	
1,100.0	1,084.9	1,120.5	1,102.3	8.1	8.4	-141.64	-46.0	-93.8	124.4	112.4	10.394		
1,200.0	1,178.6	1,222.4	1,197.2	8.8	9.0	-137.73	-35.7	-129.4	137.7	124.9	10.748		
1,300.0	1,270.7	1,320.5	1,288.0	9.4	9.3	-134.87	-24.7	-165.1	154.4	140.6	11.227		
1,400.0	1,361.1	1,418.1	1,378.3	10.1	9.6	-133.33	-13.8	-200.6	175.0	160.1	11.772		
1,500.0	1,449.6	1,515.1	1,467.9	10.7	9.9	-132.81	-3.0	-235.9	199.2	183.1	12.366		
1,600.0	1,536.0	1,611.3	1,556.8	11.3	10.3	-133.01	7.7	-270.9	226.7	209.3	12.998		
1,700.0	1,620.4	1,706.5	1,644.9	11.6	10.7	-133.58	18.4	-305.5	257.0	238.4	13.775		
1,800.0	1,704.6	1,801.7	1,732.9	12.0	11.1	-134.06	29.0	-340.2	287.7	267.8	14.453		
1,900.0	1,788.8	1,896.8	1,820.9	12.4	11.5	-134.45	39.6	-374.8	318.4	297.2	15.029		
2,000.0	1,873.1	1,992.0	1,908.9	12.8	11.9	-134.77	50.3	-409.4	349.1	326.6	15.525		
2,100.0	1,957.3	2,087.1	1,996.9	13.3	12.3	-135.04	60.9	-444.0	379.8	356.0	15.955		
2,200.0	2,041.5	2,182.3	2,084.9	14.0	12.8	-135.27	71.5	-478.6	410.6	385.4	16.329		
2,300.0	2,125.7	2,277.4	2,172.9	14.8	13.3	-135.47	82.1	-513.2	441.3	414.8	16.658		
2,400.0	2,209.9	2,372.6	2,260.9	15.7	13.8	-135.64	92.8	-547.8	472.1	444.2	16.947		
2,500.0	2,294.1	2,467.7	2,348.9	16.7	14.3	-135.79	103.4	-582.4	502.8	473.6	17.204		
2,600.0	2,378.4	2,562.9	2,436.9	17.7	14.9	-135.92	114.0	-617.1	533.5	502.9	17.432		
2,700.0	2,462.6	2,658.0	2,524.9	18.6	15.5	-136.04	124.7	-651.7	564.3	532.3	17.636		
2,800.0	2,546.8	2,753.2	2,612.9	19.6	16.1	-136.14	135.3	-686.3	595.0	561.6	17.820		
2,900.0	2,631.0	2,848.3	2,700.8	20.6	16.7	-136.24	145.9	-720.9	625.8	591.0	17.985		
3,000.0	2,715.2	2,943.5	2,788.8	21.6	17.4	-136.33	156.5	-755.5	656.5	620.3	18.135		
3,100.0	2,799.4	3,038.6	2,876.8	22.6	18.0	-136.40	167.2	-790.1	687.3	649.7	18.271		
3,200.0	2,883.6	3,133.8	2,964.8	23.7	18.7	-136.48	177.8	-824.7	718.1	679.0	18.395		
3,300.0	2,967.9	3,228.9	3,052.8	24.7	19.3	-136.54	188.4	-859.3	748.8	708.4	18.509		
3,400.0	3,052.1	3,324.1	3,140.8	25.7	20.0	-136.60	199.1	-894.0	779.6	737.7	18.613		
3,500.0	3,136.3	3,419.2	3,228.8	26.7	20.6	-136.66	209.7	-928.6	810.3	767.0	18.709		
3,600.0	3,220.5	3,514.4	3,316.8	27.7	21.3	-136.71	220.3	-963.2	841.1	796.3	18.798		
3,700.0	3,304.7	3,609.5	3,404.8	28.7	22.0	-136.76	230.9	-997.8	871.8	825.7	18.880		
3,800.0	3,388.9	3,704.7	3,492.8	29.7	22.6	-136.81	241.6	-1,032.4	902.6	855.0	18.956		
3,900.0	3,473.2	3,799.8	3,580.8	30.8	23.3	-136.85	252.2	-1,067.0	933.4	884.3	19.027		
4,000.0	3,557.4	3,895.0	3,668.7	31.8	24.0	-136.89	262.8	-1,101.6	964.1	913.6	19.093		
4,100.0	3,641.6	3,990.1	3,756.7	32.8	24.6	-136.93	273.5	-1,136.2	994.9	942.9	19.154		
4,200.0	3,725.8	4,085.3	3,844.7	33.8	25.3	-136.96	284.1	-1,170.8	1,025.6	972.3	19.212		
4,300.0	3,810.0	4,180.4	3,932.7	34.8	26.0	-136.99	294.7	-1,205.5	1,056.4	1,001.6	19.266		
4,400.0	3,894.2	4,275.6	4,020.7	35.9	26.7	-137.02	305.3	-1,240.1	1,087.2	1,030.9	19.316		
4,500.0	3,978.4	4,370.7	4,108.7	36.9	27.3	-137.05	316.0	-1,274.7	1,117.9	1,060.2	19.364		
4,600.0	4,062.7	4,465.9	4,196.7	37.9	28.0	-137.08	326.6	-1,309.3	1,148.7	1,089.5	19.409		
4,700.0	4,146.9	4,561.0	4,284.7	38.9	28.7	-137.11	337.2	-1,343.9	1,179.5	1,118.8	19.451		
4,800.0	4,231.1	4,656.2	4,372.7	40.0	29.4	-137.13	347.9	-1,378.5	1,210.2	1,148.1	19.491		
4,900.0	4,315.3	4,751.3	4,460.7	41.0	30.0	-137.16	358.5	-1,413.1	1,241.0	1,177.4	19.529		
5,000.0	4,399.5	4,846.5	4,548.7	42.0	30.7	-137.18	369.1	-1,447.7	1,271.7	1,206.7	19.565		

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 Laramie 0993-20-13E - Slot A-5
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-13E	<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>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning	
5,100.0	4,483.7	4,941.6	4,636.7	43.0	31.4	-137.20	379.7	-1,482.4	1,302.5	1,236.0	19.599		
5,200.0	4,567.9	5,036.8	4,724.6	44.1	32.1	-137.22	390.4	-1,517.0	1,333.3	1,265.4	19.631		
5,300.0	4,652.2	5,131.9	4,812.6	45.1	32.7	-137.24	401.0	-1,551.6	1,364.0	1,294.7	19.662		
5,400.0	4,736.4	5,227.1	4,900.6	46.1	33.4	-137.26	411.6	-1,586.2	1,394.8	1,324.0	19.691		
5,500.0	4,820.6	5,322.2	4,988.6	47.1	34.1	-137.28	422.2	-1,620.8	1,425.6	1,353.3	19.719		
5,600.0	4,905.5	5,417.6	5,076.9	48.1	34.8	-137.67	432.9	-1,655.5	1,455.4	1,381.6	19.733		
5,700.0	4,992.6	5,509.6	5,161.9	49.0	35.4	-138.01	443.2	-1,689.0	1,482.1	1,407.0	19.712		
5,800.0	5,081.8	5,600.0	5,246.2	49.9	36.1	-138.26	452.8	-1,720.3	1,506.4	1,429.8	19.680		
5,900.0	5,172.9	5,675.2	5,317.2	50.6	36.5	-138.52	460.0	-1,743.9	1,528.5	1,450.9	19.703		
6,000.0	5,265.6	5,756.6	5,395.0	51.3	36.9	-138.74	467.1	-1,766.9	1,548.5	1,469.9	19.703		
6,100.0	5,360.0	5,838.4	5,473.9	51.9	37.3	-138.94	473.4	-1,787.3	1,566.3	1,486.8	19.702		
6,200.0	5,455.6	5,920.4	5,553.8	52.4	37.7	-139.12	478.9	-1,805.1	1,581.9	1,501.6	19.700		
6,300.0	5,552.5	6,000.0	5,631.9	52.8	37.9	-139.28	483.4	-1,819.8	1,595.3	1,514.3	19.703		
6,400.0	5,650.3	6,085.1	5,715.9	53.2	38.2	-139.41	487.3	-1,832.6	1,606.5	1,524.9	19.694		
6,500.0	5,749.0	6,167.6	5,797.8	53.4	38.4	-139.53	490.2	-1,842.1	1,615.4	1,533.4	19.690		
6,600.0	5,848.2	6,250.3	5,880.2	53.6	38.5	-139.63	492.3	-1,848.8	1,622.1	1,539.7	19.684		
6,700.0	5,947.9	6,333.0	5,962.8	53.8	38.6	-139.71	493.5	-1,852.7	1,626.5	1,543.9	19.674		
6,800.0	6,047.9	6,418.1	6,047.9	53.8	38.6	-139.77	493.8	-1,853.8	1,628.7	1,545.8	19.656		
6,900.0	6,147.9	6,518.1	6,147.9	53.9	38.7	179.98	493.8	-1,853.8	1,628.8	1,545.8	19.636		
7,000.0	6,247.9	6,618.1	6,247.9	53.9	38.7	179.98	493.8	-1,853.8	1,628.8	1,545.8	19.623		
7,100.0	6,347.9	6,718.1	6,347.9	53.9	38.8	179.98	493.8	-1,853.8	1,628.8	1,545.7	19.610		
7,200.0	6,447.9	6,818.1	6,447.9	53.9	38.8	179.98	493.8	-1,853.8	1,628.8	1,545.7	19.597		
7,300.0	6,547.9	6,918.1	6,547.9	53.9	38.8	179.98	493.8	-1,853.8	1,628.8	1,545.6	19.584		
7,400.0	6,647.9	7,018.1	6,647.9	53.9	38.8	179.98	493.8	-1,853.8	1,628.8	1,545.6	19.571		
7,500.0	6,747.9	7,118.1	6,747.9	54.0	38.9	179.98	493.8	-1,853.8	1,628.8	1,545.5	19.558		
7,600.0	6,847.9	7,218.1	6,847.9	54.0	38.9	179.98	493.8	-1,853.8	1,628.8	1,545.4	19.544		
7,700.0	6,947.9	7,318.1	6,947.9	54.0	38.9	179.98	493.8	-1,853.8	1,628.8	1,545.4	19.531		
7,800.0	7,047.9	7,418.1	7,047.9	54.0	39.0	179.98	493.8	-1,853.8	1,628.8	1,545.3	19.518		
7,900.0	7,147.9	7,518.1	7,147.9	54.0	39.0	179.98	493.8	-1,853.8	1,628.8	1,545.3	19.504		
8,000.0	7,247.9	7,618.1	7,247.9	54.1	39.0	179.98	493.8	-1,853.8	1,628.8	1,545.2	19.491		
8,100.0	7,347.9	7,718.1	7,347.9	54.1	39.0	179.98	493.8	-1,853.8	1,628.8	1,545.2	19.477		
8,200.0	7,447.9	7,818.1	7,447.9	54.1	39.1	179.98	493.8	-1,853.8	1,628.8	1,545.1	19.464		
8,300.0	7,547.9	7,918.1	7,547.9	54.1	39.1	179.98	493.8	-1,853.8	1,628.8	1,545.0	19.450		
8,400.0	7,647.9	8,018.1	7,647.9	54.1	39.1	179.98	493.8	-1,853.8	1,628.8	1,545.0	19.436		
8,500.0	7,747.9	8,118.1	7,747.9	54.2	39.2	179.98	493.8	-1,853.8	1,628.8	1,544.9	19.423		
8,600.0	7,847.9	8,218.1	7,847.9	54.2	39.2	179.98	493.8	-1,853.8	1,628.8	1,544.9	19.409		
8,601.1	7,849.0	8,219.2	7,849.0	54.2	39.2	179.98	493.8	-1,853.8	1,628.8	1,544.9	19.409		

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 Laramie 0993-20-13E - Slot A-5
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-13E	<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>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	-46.47	16.6	-17.5	24.1				
100.0	100.0	100.0	100.0	0.4	0.4	-46.47	16.6	-17.5	24.1	23.3	30.424		
200.0	200.0	200.0	200.0	1.2	1.2	-46.47	16.6	-17.5	24.1	21.6	9.754	CC	
300.0	300.0	299.8	299.8	1.6	1.7	28.33	17.7	-16.9	24.4	21.2	7.665		
400.0	400.0	399.1	399.0	2.5	3.3	43.45	22.3	-14.2	24.5	19.8	5.240	ES	
500.0	499.7	497.5	496.9	4.0	4.5	70.88	30.7	-9.5	27.8	21.2	4.180	SF	
600.0	599.1	594.2	592.6	4.6	5.5	92.60	42.4	-2.8	40.2	32.1	4.969		
700.0	697.9	689.3	686.1	5.1	6.4	99.28	57.3	5.7	60.0	50.4	6.248		
800.0	796.1	782.5	777.0	5.9	7.1	102.93	75.2	15.9	85.2	74.3	7.818		
900.0	893.5	873.7	865.1	6.6	7.8	105.05	95.9	27.6	114.9	103.1	9.693		
1,000.0	989.8	962.8	950.1	7.4	8.5	106.33	118.9	40.7	148.7	136.0	11.717		
1,100.0	1,084.9	1,049.6	1,031.9	8.1	9.1	107.09	144.2	55.1	186.4	172.9	13.797		
1,200.0	1,178.6	1,134.0	1,110.3	8.8	9.6	107.50	171.3	70.5	227.7	213.4	15.896		
1,300.0	1,270.7	1,216.0	1,185.4	9.4	10.1	107.65	200.0	86.8	272.4	257.2	17.982		
1,400.0	1,361.1	1,300.0	1,261.0	10.1	10.7	107.71	231.8	104.9	320.3	304.2	19.911		
1,500.0	1,449.6	1,372.5	1,325.1	10.7	11.1	107.36	261.2	121.6	371.3	354.4	21.998		
1,600.0	1,536.0	1,447.0	1,389.9	11.3	11.5	106.97	293.2	139.8	425.1	407.3	23.887		
1,700.0	1,620.4	1,519.1	1,451.5	11.6	11.9	107.58	325.9	158.4	481.5	462.8	25.782		
1,800.0	1,704.6	1,593.5	1,513.8	12.0	12.2	108.80	361.2	178.5	539.8	520.2	27.548		
1,900.0	1,788.8	1,674.0	1,580.9	12.4	12.4	109.82	399.8	200.4	598.6	577.9	28.944		
2,000.0	1,873.1	1,754.5	1,648.1	12.8	12.7	110.67	438.4	222.3	657.4	635.6	30.135		
2,100.0	1,957.3	1,835.0	1,715.2	13.3	13.0	111.37	477.0	244.3	716.4	693.4	31.156		
2,200.0	2,041.5	1,915.5	1,782.4	14.0	13.2	111.97	515.6	266.2	775.4	751.2	32.035		
2,300.0	2,125.7	1,996.0	1,849.5	14.8	13.5	112.49	554.1	288.1	834.4	809.0	32.796		
2,400.0	2,209.9	2,076.5	1,916.7	15.7	13.8	112.94	592.7	310.1	893.5	866.8	33.455		
2,500.0	2,294.1	2,157.0	1,983.8	16.7	14.1	113.33	631.3	332.0	952.6	924.6	34.031		
2,600.0	2,378.4	2,237.5	2,051.0	17.7	14.4	113.67	669.9	354.0	1,011.8	982.5	34.537		
2,700.0	2,462.6	2,318.0	2,118.1	18.6	14.8	113.98	708.5	375.9	1,070.9	1,040.3	34.981		
2,800.0	2,546.8	2,398.5	2,185.3	19.6	15.4	114.26	747.1	397.8	1,130.1	1,098.2	35.374		
2,900.0	2,631.0	2,479.0	2,252.4	20.6	16.1	114.51	785.6	419.8	1,189.3	1,156.0	35.722		
3,000.0	2,715.2	2,559.5	2,319.6	21.6	16.9	114.73	824.2	441.7	1,248.5	1,213.9	36.032		
3,100.0	2,799.4	2,639.9	2,386.7	22.6	17.7	114.94	862.8	463.6	1,307.7	1,271.7	36.311		
3,200.0	2,883.6	2,720.4	2,453.9	23.7	18.4	115.13	901.4	485.6	1,367.0	1,329.6	36.561		
3,300.0	2,967.9	2,800.9	2,521.0	24.7	19.2	115.30	940.0	507.5	1,426.2	1,387.4	36.786		
3,400.0	3,052.1	2,881.4	2,588.2	25.7	19.9	115.45	978.6	529.4	1,485.5	1,445.3	36.989		
3,500.0	3,136.3	2,961.9	2,655.3	26.7	20.7	115.60	1,017.1	551.4	1,544.7	1,503.2	37.174		
3,600.0	3,220.5	3,042.4	2,722.5	27.7	21.5	115.74	1,055.7	573.3	1,604.0	1,561.0	37.342		
3,700.0	3,304.7	3,122.9	2,789.6	28.7	22.2	115.86	1,094.3	595.3	1,663.2	1,618.9	37.495		
3,800.0	3,388.9	3,203.4	2,856.8	29.7	23.0	115.98	1,132.9	617.2	1,722.5	1,676.7	37.635		
3,900.0	3,473.2	3,283.9	2,923.9	30.8	23.7	116.09	1,171.5	639.1	1,781.8	1,734.6	37.764		
4,000.0	3,557.4	3,364.4	2,991.1	31.8	24.5	116.19	1,210.0	661.1	1,841.1	1,792.5	37.882		
4,100.0	3,641.6	3,444.9	3,058.2	32.8	25.3	116.28	1,248.6	683.0	1,900.4	1,850.3	37.991		
4,200.0	3,725.8	3,525.4	3,125.4	33.8	26.0	116.37	1,287.2	704.9	1,959.6	1,908.2	38.092		
4,300.0	3,810.0	3,605.9	3,192.5	34.8	26.8	116.46	1,325.8	726.9	2,018.9	1,966.1	38.185		
4,400.0	3,894.2	3,686.4	3,259.7	35.9	27.6	116.54	1,364.4	748.8	2,078.2	2,023.9	38.271		
4,500.0	3,978.4	3,766.8	3,326.8	36.9	28.3	116.61	1,403.0	770.7	2,137.5	2,081.8	38.351		
4,600.0	4,062.7	3,847.3	3,394.0	37.9	29.1	116.69	1,441.5	792.7	2,196.8	2,139.6	38.426		
4,700.0	4,146.9	3,927.8	3,461.1	38.9	29.8	116.75	1,480.1	814.6	2,256.1	2,197.5	38.496		
4,800.0	4,231.1	4,008.3	3,528.3	40.0	30.6	116.82	1,518.7	836.5	2,315.4	2,255.4	38.561		
4,900.0	4,315.3	4,088.8	3,595.4	41.0	31.4	116.88	1,557.3	858.5	2,374.7	2,313.2	38.621		
5,000.0	4,399.5	4,169.3	3,662.6	42.0	32.1	116.94	1,595.9	880.4	2,434.0	2,371.1	38.678		
5,100.0	4,483.7	4,249.8	3,729.7	43.0	32.9	116.99	1,634.5	902.4	2,493.3	2,429.0	38.732		

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 Laramie 0993-20-13E - Slot A-5
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-13E	<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>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design											Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard											Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning
5,200.0	4,567.9	4,330.3	3,796.9	44.1	33.7	117.04	1,673.0	924.3	2,552.6	2,486.8	38.782	
5,300.0	4,652.2	4,410.8	3,864.1	45.1	34.4	117.09	1,711.6	946.2	2,611.9	2,544.7	38.829	
5,400.0	4,736.4	4,491.3	3,931.2	46.1	35.2	117.14	1,750.2	968.2	2,671.3	2,602.5	38.874	
5,500.0	4,820.6	4,571.8	3,998.4	47.1	36.0	117.19	1,788.8	990.1	2,730.6	2,660.4	38.916	
5,600.0	4,905.5	4,652.7	4,065.8	48.1	36.7	118.47	1,827.6	1,012.1	2,789.4	2,717.8	38.956	
5,700.0	4,992.6	4,734.6	4,134.2	49.0	37.5	119.91	1,866.9	1,034.5	2,846.5	2,773.5	38.983	
5,800.0	5,081.8	4,817.6	4,203.5	49.9	38.3	121.17	1,906.6	1,057.1	2,901.9	2,827.5	39.002	
5,900.0	5,172.9	4,901.4	4,273.4	50.6	39.1	122.28	1,946.8	1,079.9	2,955.4	2,879.6	39.017	
6,000.0	5,265.6	4,985.9	4,343.8	51.3	39.9	123.22	1,987.3	1,103.0	3,006.9	2,929.9	39.029	
6,100.0	5,360.0	5,070.9	4,414.7	51.9	40.7	124.03	2,028.0	1,126.1	3,056.5	2,978.2	39.038	
6,200.0	5,455.6	5,156.2	4,485.9	52.4	41.5	124.71	2,068.9	1,149.4	3,104.1	3,024.6	39.047	
6,300.0	5,552.5	5,241.7	4,557.3	52.8	42.3	125.27	2,109.9	1,172.7	3,149.6	3,069.0	39.057	
6,400.0	5,650.3	5,327.3	4,628.6	53.2	43.2	125.72	2,150.9	1,196.0	3,193.1	3,111.4	39.069	
6,500.0	5,749.0	5,412.7	4,699.9	53.4	44.0	126.07	2,191.9	1,219.3	3,234.6	3,151.9	39.086	
6,600.0	5,848.2	5,497.8	4,770.9	53.6	44.8	126.32	2,232.7	1,242.5	3,274.1	3,190.4	39.108	
6,700.0	5,947.9	5,582.4	4,841.5	53.8	45.6	126.49	2,273.2	1,265.5	3,311.6	3,227.0	39.140	
6,800.0	6,047.9	6,259.2	5,452.0	53.8	50.5	123.16	2,521.9	1,406.9	3,339.0	3,245.7	35.799	
6,900.0	6,147.9	6,964.6	6,147.9	53.9	52.2	81.68	2,606.2	1,454.9	3,344.2	3,247.7	34.646	
7,000.0	6,247.9	7,064.6	6,247.9	53.9	52.2	81.68	2,606.2	1,454.9	3,344.2	3,247.7	34.635	
7,100.0	6,347.9	7,164.6	6,347.9	53.9	52.2	81.68	2,606.2	1,454.9	3,344.2	3,247.7	34.623	
7,200.0	6,447.9	7,264.6	6,447.9	53.9	52.2	81.68	2,606.2	1,454.9	3,344.2	3,247.6	34.611	
7,300.0	6,547.9	7,364.6	6,547.9	53.9	52.2	81.68	2,606.2	1,454.9	3,344.2	3,247.6	34.599	
7,400.0	6,647.9	7,464.6	6,647.9	53.9	52.2	81.68	2,606.2	1,454.9	3,344.2	3,247.5	34.587	
7,500.0	6,747.9	7,564.6	6,747.9	54.0	52.3	81.68	2,606.2	1,454.9	3,344.2	3,247.5	34.574	
7,600.0	6,847.9	7,664.6	6,847.9	54.0	52.3	81.68	2,606.2	1,454.9	3,344.2	3,247.5	34.562	
7,700.0	6,947.9	7,764.6	6,947.9	54.0	52.3	81.68	2,606.2	1,454.9	3,344.2	3,247.4	34.549	
7,800.0	7,047.9	7,864.6	7,047.9	54.0	52.3	81.68	2,606.2	1,454.9	3,344.2	3,247.4	34.537	
7,900.0	7,147.9	7,964.6	7,147.9	54.0	52.3	81.68	2,606.2	1,454.9	3,344.2	3,247.4	34.524	
8,000.0	7,247.9	8,064.6	7,247.9	54.1	52.3	81.68	2,606.2	1,454.9	3,344.2	3,247.3	34.511	
8,100.0	7,347.9	8,164.6	7,347.9	54.1	52.4	81.68	2,606.2	1,454.9	3,344.2	3,247.3	34.498	
8,200.0	7,447.9	8,264.6	7,447.9	54.1	52.4	81.68	2,606.2	1,454.9	3,344.2	3,247.3	34.485	
8,300.0	7,547.9	8,364.6	7,547.9	54.1	52.4	81.68	2,606.2	1,454.9	3,344.2	3,247.2	34.472	
8,400.0	7,647.9	8,464.6	7,647.9	54.1	52.4	81.68	2,606.2	1,454.9	3,344.2	3,247.2	34.459	
8,500.0	7,747.9	8,564.6	7,747.9	54.2	52.4	81.68	2,606.2	1,454.9	3,344.2	3,247.2	34.446	
8,600.0	7,847.9	8,664.6	7,847.9	54.2	52.4	81.68	2,606.2	1,454.9	3,344.2	3,247.1	34.433	
8,601.1	7,849.0	8,665.7	7,849.0	54.2	52.4	81.68	2,606.2	1,454.9	3,344.2	3,247.1	34.433	

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 Laramie 0993-20-13E - Slot A-5
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-13E	<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>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	-46.79	5.5	-5.8	8.0				
100.0	100.0	100.0	100.0	0.4	0.4	-46.79	5.5	-5.8	8.0	7.2	10.115		
200.0	200.0	200.0	200.0	1.2	1.2	-46.79	5.5	-5.8	8.0	5.5	3.243	CC	
300.0	300.0	299.9	299.9	1.6	2.4	39.75	7.3	-4.6	8.6	5.1	2.439	Level 1, ES	
400.0	400.0	399.3	399.0	2.5	3.9	79.33	12.6	-0.9	12.0	6.3	2.114	Level 1, SF	
500.0	499.7	497.5	496.7	4.0	5.0	108.88	21.4	5.1	23.5	15.9	3.090		
600.0	599.1	593.9	592.0	4.6	5.9	118.10	33.4	13.2	43.1	34.2	4.807		
700.0	697.9	688.4	684.7	5.1	6.7	116.12	48.3	23.4	68.0	57.8	6.688		
800.0	796.1	780.9	774.7	5.9	7.5	114.87	65.9	35.5	97.0	85.7	8.569		
900.0	893.5	871.1	861.6	6.6	8.1	114.08	86.0	49.3	130.1	117.9	10.619		
1,000.0	989.8	958.9	945.1	7.4	8.7	113.50	108.2	64.5	167.2	154.1	12.766		
1,100.0	1,084.9	1,044.2	1,025.3	8.1	9.3	113.01	132.4	81.0	208.0	194.1	14.953		
1,200.0	1,178.6	1,126.9	1,101.8	8.8	9.8	112.52	158.1	98.6	252.4	237.7	17.153		
1,300.0	1,270.7	1,206.9	1,174.8	9.4	10.3	111.99	185.1	117.1	300.3	284.8	19.341		
1,400.0	1,361.1	1,284.1	1,244.1	10.1	10.8	111.41	213.2	136.3	351.5	335.1	21.492		
1,500.0	1,449.6	1,358.6	1,309.9	10.7	11.3	110.75	242.1	156.1	405.7	388.5	23.557		
1,600.0	1,536.0	1,433.7	1,375.1	11.3	11.7	110.10	272.9	177.1	462.7	444.6	25.508		
1,700.0	1,620.4	1,513.9	1,444.4	11.6	12.0	110.89	306.1	199.9	521.1	502.0	27.300		
1,800.0	1,704.6	1,593.9	1,513.6	12.0	12.2	112.43	339.2	222.6	579.8	559.8	28.902		
1,900.0	1,788.8	1,673.9	1,582.7	12.4	12.5	113.70	372.4	245.2	638.8	617.7	30.287		
2,000.0	1,873.1	1,753.9	1,651.9	12.8	12.7	114.76	405.5	267.9	698.0	675.8	31.494		
2,100.0	1,957.3	1,833.9	1,721.1	13.3	13.0	115.65	438.7	290.6	757.3	734.0	32.549		
2,200.0	2,041.5	1,913.9	1,790.3	14.0	13.3	116.42	471.9	313.3	816.6	792.3	33.471		
2,300.0	2,125.7	1,993.9	1,859.4	14.8	13.6	117.08	505.0	336.0	876.1	850.6	34.280		
2,400.0	2,209.9	2,073.9	1,928.6	15.7	13.9	117.66	538.2	358.7	935.7	908.9	34.990		
2,500.0	2,294.1	2,153.9	1,997.8	16.7	14.2	118.17	571.4	381.4	995.3	967.3	35.618		
2,600.0	2,378.4	2,233.9	2,067.0	17.7	14.5	118.62	604.5	404.1	1,054.9	1,025.7	36.175		
2,700.0	2,462.6	2,313.9	2,136.2	18.6	14.9	119.02	637.7	426.8	1,114.6	1,084.2	36.671		
2,800.0	2,546.8	2,393.9	2,205.3	19.6	15.2	119.39	670.8	449.5	1,174.3	1,142.7	37.114		
2,900.0	2,631.0	2,473.9	2,274.5	20.6	15.7	119.72	704.0	472.2	1,234.0	1,201.1	37.516		
3,000.0	2,715.2	2,553.9	2,343.7	21.6	16.4	120.01	737.2	494.9	1,293.8	1,259.6	37.869		
3,100.0	2,799.4	2,633.9	2,412.9	22.6	17.1	120.29	770.3	517.6	1,353.6	1,318.1	38.191		
3,200.0	2,883.6	2,713.9	2,482.1	23.7	17.8	120.54	803.5	540.3	1,413.4	1,376.7	38.482		
3,300.0	2,967.9	2,793.9	2,551.2	24.7	18.5	120.77	836.6	563.0	1,473.2	1,435.2	38.747		
3,400.0	3,052.1	2,873.9	2,620.4	25.7	19.1	120.98	869.8	585.7	1,533.0	1,493.7	38.989		
3,500.0	3,136.3	2,953.9	2,689.6	26.7	19.8	121.17	903.0	608.3	1,592.9	1,552.3	39.209		
3,600.0	3,220.5	3,033.9	2,758.8	27.7	20.5	121.35	936.1	631.0	1,652.7	1,610.8	39.411		
3,700.0	3,304.7	3,113.9	2,827.9	28.7	21.2	121.52	969.3	653.7	1,712.6	1,669.4	39.596		
3,800.0	3,388.9	3,193.9	2,897.1	29.7	21.9	121.68	1,002.4	676.4	1,772.5	1,727.9	39.767		
3,900.0	3,473.2	3,273.9	2,966.3	30.8	22.6	121.83	1,035.6	699.1	1,832.4	1,786.5	39.924		
4,000.0	3,557.4	3,353.9	3,035.5	31.8	23.3	121.96	1,068.8	721.8	1,892.3	1,845.0	40.070		
4,100.0	3,641.6	3,433.9	3,104.7	32.8	24.0	122.09	1,101.9	744.5	1,952.2	1,903.6	40.205		
4,200.0	3,725.8	3,513.9	3,173.8	33.8	24.7	122.21	1,135.1	767.2	2,012.1	1,962.2	40.330		
4,300.0	3,810.0	3,593.9	3,243.0	34.8	25.4	122.33	1,168.2	789.9	2,072.0	2,020.7	40.447		
4,400.0	3,894.2	3,673.9	3,312.2	35.9	26.1	122.44	1,201.4	812.6	2,131.9	2,079.3	40.555		
4,500.0	3,978.4	3,753.9	3,381.4	36.9	26.8	122.54	1,234.6	835.3	2,191.8	2,137.9	40.657		
4,600.0	4,062.7	3,833.9	3,450.5	37.9	27.5	122.64	1,267.7	858.0	2,251.7	2,196.5	40.751		
4,700.0	4,146.9	3,913.9	3,519.7	38.9	28.2	122.73	1,300.9	880.7	2,311.7	2,255.0	40.840		
4,800.0	4,231.1	3,993.9	3,588.9	40.0	28.9	122.81	1,334.1	903.4	2,371.6	2,313.6	40.923		
4,900.0	4,315.3	4,073.9	3,658.1	41.0	29.6	122.90	1,367.2	926.1	2,431.5	2,372.2	41.002		
5,000.0	4,399.5	4,153.9	3,727.3	42.0	30.3	122.98	1,400.4	948.7	2,491.5	2,430.8	41.075		
5,100.0	4,483.7	4,233.9	3,796.4	43.0	31.0	123.05	1,433.5	971.4	2,551.4	2,489.4	41.144		

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 Laramie 0993-20-13E - Slot A-5
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-13E	<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>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
5,200.0	4,567.9	4,313.9	3,865.6	44.1	31.7	123.12	1,466.7	994.1	2,611.3	2,548.0	41.210		
5,300.0	4,652.2	4,393.9	3,934.8	45.1	32.4	123.19	1,499.9	1,016.8	2,671.3	2,606.6	41.271		
5,400.0	4,736.4	4,473.9	4,004.0	46.1	33.1	123.26	1,533.0	1,039.5	2,731.2	2,665.1	41.329		
5,500.0	4,820.6	4,553.9	4,073.2	47.1	33.8	123.32	1,566.2	1,062.2	2,791.2	2,723.7	41.385		
5,600.0	4,905.5	4,634.4	4,142.7	48.1	34.5	124.56	1,599.5	1,085.0	2,850.5	2,781.7	41.434		
5,700.0	4,992.6	4,716.3	4,213.5	49.0	35.2	125.93	1,633.5	1,108.3	2,907.9	2,837.7	41.456		
5,800.0	5,081.8	4,799.4	4,285.4	49.9	35.9	127.13	1,667.9	1,131.8	2,963.2	2,891.7	41.459		
5,900.0	5,172.9	4,883.6	4,358.3	50.6	36.6	128.16	1,702.8	1,155.7	3,016.2	2,943.5	41.448		
6,000.0	5,265.6	4,968.8	4,431.9	51.3	37.4	129.04	1,738.2	1,179.9	3,067.0	2,993.0	41.424		
6,100.0	5,360.0	5,054.8	4,506.3	51.9	38.1	129.78	1,773.8	1,204.3	3,115.5	3,040.3	41.390		
6,200.0	5,455.6	5,141.4	4,581.1	52.4	38.9	130.39	1,809.7	1,228.9	3,161.7	3,085.2	41.347		
6,300.0	5,552.5	5,228.5	4,656.4	52.8	39.7	130.87	1,845.8	1,253.6	3,205.4	3,127.8	41.297		
6,400.0	5,650.3	5,315.8	4,732.0	53.2	40.4	131.25	1,882.0	1,278.3	3,246.7	3,168.0	41.243		
6,500.0	5,749.0	5,403.3	4,807.6	53.4	41.2	131.52	1,918.2	1,303.1	3,285.7	3,205.9	41.186		
6,600.0	5,848.2	5,490.7	4,883.2	53.6	41.9	131.70	1,954.5	1,327.9	3,322.2	3,241.5	41.128		
6,700.0	5,947.9	5,578.0	4,958.6	53.8	42.7	131.78	1,990.6	1,352.7	3,356.4	3,274.7	41.075		
6,800.0	6,047.9	6,275.0	5,604.8	53.8	47.1	128.84	2,200.4	1,496.2	3,380.4	3,290.6	37.609		
6,900.0	6,147.9	6,822.3	6,147.9	53.9	48.1	87.89	2,247.1	1,528.2	3,384.7	3,292.6	36.745		
7,000.0	6,247.9	6,922.3	6,247.9	53.9	48.1	87.89	2,247.1	1,528.2	3,384.7	3,292.6	36.732		
7,100.0	6,347.9	7,022.3	6,347.9	53.9	48.1	87.89	2,247.1	1,528.2	3,384.7	3,292.5	36.718		
7,200.0	6,447.9	7,122.3	6,447.9	53.9	48.1	87.89	2,247.1	1,528.2	3,384.7	3,292.5	36.704		
7,300.0	6,547.9	7,222.3	6,547.9	53.9	48.2	87.89	2,247.1	1,528.2	3,384.7	3,292.5	36.689		
7,400.0	6,647.9	7,322.3	6,647.9	53.9	48.2	87.89	2,247.1	1,528.2	3,384.7	3,292.4	36.675		
7,500.0	6,747.9	7,422.3	6,747.9	54.0	48.2	87.89	2,247.1	1,528.2	3,384.7	3,292.4	36.661		
7,600.0	6,847.9	7,522.3	6,847.9	54.0	48.2	87.89	2,247.1	1,528.2	3,384.7	3,292.4	36.646		
7,700.0	6,947.9	7,622.3	6,947.9	54.0	48.2	87.89	2,247.1	1,528.2	3,384.7	3,292.3	36.631		
7,800.0	7,047.9	7,722.3	7,047.9	54.0	48.2	87.89	2,247.1	1,528.2	3,384.7	3,292.3	36.616		
7,900.0	7,147.9	7,822.3	7,147.9	54.0	48.3	87.89	2,247.1	1,528.2	3,384.7	3,292.3	36.602		
8,000.0	7,247.9	7,922.3	7,247.9	54.1	48.3	87.89	2,247.1	1,528.2	3,384.7	3,292.2	36.587		
8,100.0	7,347.9	8,022.3	7,347.9	54.1	48.3	87.89	2,247.1	1,528.2	3,384.7	3,292.2	36.572		
8,200.0	7,447.9	8,122.3	7,447.9	54.1	48.3	87.89	2,247.1	1,528.2	3,384.7	3,292.1	36.556		
8,300.0	7,547.9	8,222.3	7,547.9	54.1	48.3	87.89	2,247.1	1,528.2	3,384.7	3,292.1	36.541		
8,400.0	7,647.9	8,322.3	7,647.9	54.1	48.4	87.89	2,247.1	1,528.2	3,384.7	3,292.1	36.526		
8,500.0	7,747.9	8,422.3	7,747.9	54.2	48.4	87.89	2,247.1	1,528.2	3,384.7	3,292.0	36.510		
8,600.0	7,847.9	8,522.3	7,847.9	54.2	48.4	87.89	2,247.1	1,528.2	3,384.7	3,292.0	36.495		
8,601.1	7,849.0	8,523.4	7,849.0	54.2	48.4	87.89	2,247.1	1,528.2	3,384.7	3,292.0	36.495		

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 Laramie 0993-20-13E - Slot A-5
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-13E	<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>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	134.37	-5.6	5.7	8.0				
100.0	100.0	100.0	100.0	0.4	0.4	134.37	-5.6	5.7	8.0	7.2	10.142		
200.0	200.0	200.0	200.0	1.2	1.2	134.37	-5.6	5.7	8.0	5.6	3.252	CC	
200.0	200.0	200.0	200.0	1.2	1.2	134.37	-5.6	5.7	8.0	5.6	3.252		
300.0	300.0	299.9	299.9	1.6	2.3	-168.74	-4.1	7.3	8.4	5.0	2.480	Level 1, ES, SF	
400.0	400.0	399.3	399.1	2.5	3.9	163.46	0.4	11.9	14.5	8.9	2.597		
500.0	499.7	497.4	496.6	4.0	5.0	152.01	7.8	19.5	29.3	21.2	3.633		
600.0	599.1	593.5	591.5	4.6	5.9	144.71	17.9	29.9	51.5	42.2	5.519		
700.0	697.9	687.2	683.6	5.1	6.7	135.47	30.4	42.7	79.2	68.8	7.586		
800.0	796.1	778.6	772.5	5.9	7.4	130.42	45.1	57.8	111.5	99.9	9.583		
900.0	893.5	867.3	857.9	6.6	8.1	127.33	61.7	74.8	148.4	135.7	11.730		
1,000.0	989.8	953.1	939.6	7.4	8.7	125.23	80.0	93.5	189.6	176.0	13.987		
1,100.0	1,084.9	1,035.8	1,017.4	8.1	9.2	123.64	99.6	113.7	234.9	220.5	16.309		
1,200.0	1,178.6	1,115.4	1,091.2	8.8	9.8	122.32	120.3	134.9	284.3	269.1	18.675		
1,300.0	1,270.7	1,191.7	1,161.0	9.4	10.2	121.13	141.9	157.0	337.4	321.4	21.063		
1,400.0	1,361.1	1,264.7	1,226.8	10.1	10.7	119.99	164.0	179.6	394.1	377.3	23.448		
1,500.0	1,449.6	1,334.4	1,288.7	10.7	11.1	118.84	186.4	202.7	454.1	436.5	25.813		
1,600.0	1,536.0	1,400.0	1,345.9	11.3	11.5	117.62	208.8	225.6	517.2	498.8	28.172		
1,700.0	1,620.4	1,469.3	1,405.5	11.6	11.7	117.83	233.5	250.9	582.9	563.9	30.598		
1,800.0	1,704.6	1,543.5	1,469.2	12.0	11.9	119.08	260.1	278.2	649.2	629.3	32.627		
1,900.0	1,788.8	1,617.7	1,532.8	12.4	12.1	120.10	286.7	305.5	715.6	694.8	34.413		
2,000.0	1,873.1	1,691.9	1,596.5	12.8	12.4	120.95	313.3	332.8	782.1	760.4	35.984		
2,100.0	1,957.3	1,766.1	1,660.1	13.3	12.7	121.67	339.9	360.1	848.7	826.0	37.368		
2,200.0	2,041.5	1,840.3	1,723.8	14.0	12.9	122.28	366.6	387.4	915.4	891.7	38.595		
2,300.0	2,125.7	1,914.5	1,787.5	14.8	13.2	122.82	393.2	414.6	982.1	957.4	39.685		
2,400.0	2,209.9	1,988.7	1,851.1	15.7	13.5	123.28	419.8	441.9	1,048.9	1,023.1	40.652		
2,500.0	2,294.1	2,062.9	1,914.8	16.7	13.7	123.69	446.4	469.2	1,115.7	1,088.8	41.509		
2,600.0	2,378.4	2,137.1	1,978.4	17.7	14.0	124.05	473.0	496.5	1,182.5	1,154.5	42.276		
2,700.0	2,462.6	2,211.3	2,042.1	18.6	14.3	124.38	499.7	523.8	1,249.3	1,220.2	42.956		
2,800.0	2,546.8	2,285.5	2,105.7	19.6	14.7	124.67	526.3	551.1	1,316.2	1,286.0	43.581		
2,900.0	2,631.0	2,359.7	2,169.4	20.6	15.3	124.93	552.9	578.4	1,383.1	1,351.7	44.158		
3,000.0	2,715.2	2,433.9	2,233.0	21.6	16.0	125.17	579.5	605.7	1,450.0	1,417.5	44.652		
3,100.0	2,799.4	2,508.1	2,296.7	22.6	16.6	125.39	606.1	633.0	1,516.9	1,483.2	45.106		
3,200.0	2,883.6	2,582.3	2,360.3	23.7	17.3	125.59	632.8	660.3	1,583.8	1,549.0	45.521		
3,300.0	2,967.9	2,656.5	2,424.0	24.7	18.0	125.78	659.4	687.6	1,650.7	1,614.8	45.898		
3,400.0	3,052.1	2,730.7	2,487.6	25.7	18.7	125.95	686.0	714.9	1,717.7	1,680.5	46.242		
3,500.0	3,136.3	2,804.9	2,551.3	26.7	19.4	126.10	712.6	742.2	1,784.6	1,746.3	46.557		
3,600.0	3,220.5	2,879.1	2,615.0	27.7	20.0	126.25	739.3	769.5	1,851.6	1,812.0	46.847		
3,700.0	3,304.7	2,953.3	2,678.6	28.7	20.7	126.38	765.9	796.8	1,918.5	1,877.8	47.113		
3,800.0	3,388.9	3,027.5	2,742.3	29.7	21.4	126.51	792.5	824.1	1,985.5	1,943.6	47.358		
3,900.0	3,473.2	3,101.7	2,805.9	30.8	22.1	126.63	819.1	851.4	2,052.5	2,009.3	47.585		
4,000.0	3,557.4	3,175.9	2,869.6	31.8	22.8	126.74	845.7	878.7	2,119.4	2,075.1	47.795		
4,100.0	3,641.6	3,250.1	2,933.2	32.8	23.5	126.84	872.4	906.0	2,186.4	2,140.8	47.989		
4,200.0	3,725.8	3,324.3	2,996.9	33.8	24.2	126.94	899.0	933.3	2,253.4	2,206.6	48.170		
4,300.0	3,810.0	3,398.5	3,060.5	34.8	24.8	127.03	925.6	960.6	2,320.4	2,272.4	48.338		
4,400.0	3,894.2	3,472.7	3,124.2	35.9	25.5	127.12	952.2	987.9	2,387.4	2,338.1	48.494		
4,500.0	3,978.4	3,546.9	3,187.8	36.9	26.2	127.20	978.8	1,015.1	2,454.4	2,403.9	48.641		
4,600.0	4,062.7	3,621.1	3,251.5	37.9	26.9	127.28	1,005.5	1,042.4	2,521.3	2,469.7	48.778		
4,700.0	4,146.9	3,695.3	3,315.1	38.9	27.6	127.35	1,032.1	1,069.7	2,588.3	2,535.4	48.906		
4,800.0	4,231.1	3,769.5	3,378.8	40.0	28.3	127.42	1,058.7	1,097.0	2,655.3	2,601.2	49.026		
4,900.0	4,315.3	3,843.7	3,442.5	41.0	29.0	127.49	1,085.3	1,124.3	2,722.3	2,666.9	49.138		
5,000.0	4,399.5	3,917.9	3,506.1	42.0	29.7	127.55	1,111.9	1,151.6	2,789.3	2,732.7	49.245		

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 Laramie 0993-20-13E - Slot A-5
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-13E	<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>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
5,100.0	4,483.7	3,992.1	3,569.8	43.0	30.3	127.61	1,138.6	1,178.9	2,856.4	2,798.5	49.344		
5,200.0	4,567.9	4,066.3	3,633.4	44.1	31.0	127.67	1,165.2	1,206.2	2,923.4	2,864.2	49.438		
5,300.0	4,652.2	4,140.5	3,697.1	45.1	31.7	127.73	1,191.8	1,233.5	2,990.4	2,930.0	49.527		
5,400.0	4,736.4	4,214.7	3,760.7	46.1	32.4	127.78	1,218.4	1,260.8	3,057.4	2,995.7	49.611		
5,500.0	4,820.6	4,288.9	3,824.4	47.1	33.1	127.83	1,245.0	1,288.1	3,124.4	3,061.5	49.690		
5,600.0	4,905.5	4,363.7	3,888.5	48.1	33.8	129.22	1,271.9	1,315.6	3,190.8	3,126.6	49.761		
5,700.0	4,992.6	4,440.2	3,954.2	49.0	34.5	130.77	1,299.3	1,343.8	3,255.1	3,189.7	49.789		
5,800.0	5,081.8	4,518.3	4,021.2	49.9	35.2	132.13	1,327.4	1,372.5	3,317.2	3,250.6	49.790		
5,900.0	5,172.9	4,597.9	4,089.5	50.6	36.0	133.32	1,355.9	1,401.8	3,377.1	3,309.2	49.770		
6,000.0	5,265.6	4,678.9	4,158.9	51.3	36.7	134.33	1,385.0	1,431.6	3,434.5	3,365.4	49.731		
6,100.0	5,360.0	4,761.0	4,229.4	51.9	37.5	135.20	1,414.4	1,461.8	3,489.5	3,419.2	49.675		
6,200.0	5,455.6	4,844.1	4,300.7	52.4	38.3	135.94	1,444.2	1,492.3	3,541.9	3,470.5	49.606		
6,300.0	5,552.5	4,928.1	4,372.7	52.8	39.1	136.55	1,474.4	1,523.2	3,591.8	3,519.3	49.525		
6,400.0	5,650.3	5,012.8	4,445.4	53.2	39.8	137.05	1,504.8	1,554.4	3,639.0	3,565.4	49.434		
6,500.0	5,749.0	5,098.0	4,518.5	53.4	40.6	137.44	1,535.3	1,585.7	3,683.6	3,609.0	49.338		
6,600.0	5,848.2	5,183.6	4,591.9	53.6	41.4	137.73	1,566.0	1,617.2	3,725.6	3,649.9	49.238		
6,700.0	5,947.9	5,269.4	4,665.5	53.8	42.2	137.93	1,596.8	1,648.8	3,764.8	3,688.2	49.139		
6,800.0	6,047.9	5,355.2	4,739.2	53.8	43.0	138.05	1,627.6	1,680.4	3,801.4	3,723.9	49.048		
6,900.0	6,147.9	5,441.0	4,812.8	53.9	43.8	97.42	1,658.4	1,711.9	3,836.1	3,757.9	49.040		
7,000.0	6,247.9	6,955.9	6,247.9	53.9	50.9	92.74	1,937.9	1,998.5	3,857.2	3,765.9	42.263		
7,100.0	6,347.9	7,055.9	6,347.9	53.9	50.9	92.74	1,937.9	1,998.5	3,857.2	3,765.9	42.247		
7,200.0	6,447.9	7,155.9	6,447.9	53.9	51.0	92.74	1,937.9	1,998.5	3,857.2	3,765.8	42.230		
7,300.0	6,547.9	7,255.9	6,547.9	53.9	51.0	92.74	1,937.9	1,998.5	3,857.2	3,765.8	42.213		
7,400.0	6,647.9	7,355.9	6,647.9	53.9	51.0	92.74	1,937.9	1,998.5	3,857.2	3,765.8	42.196		
7,500.0	6,747.9	7,455.9	6,747.9	54.0	51.0	92.74	1,937.9	1,998.5	3,857.2	3,765.7	42.179		
7,600.0	6,847.9	7,555.9	6,847.9	54.0	51.0	92.74	1,937.9	1,998.5	3,857.2	3,765.7	42.162		
7,700.0	6,947.9	7,655.9	6,947.9	54.0	51.1	92.74	1,937.9	1,998.5	3,857.2	3,765.7	42.144		
7,800.0	7,047.9	7,755.9	7,047.9	54.0	51.1	92.74	1,937.9	1,998.5	3,857.2	3,765.6	42.127		
7,900.0	7,147.9	7,855.9	7,147.9	54.0	51.1	92.74	1,937.9	1,998.5	3,857.2	3,765.6	42.109		
8,000.0	7,247.9	7,955.9	7,247.9	54.1	51.1	92.74	1,937.9	1,998.5	3,857.2	3,765.5	42.092		
8,100.0	7,347.9	8,055.9	7,347.9	54.1	51.1	92.74	1,937.9	1,998.5	3,857.2	3,765.5	42.074		
8,200.0	7,447.9	8,155.9	7,447.9	54.1	51.2	92.74	1,937.9	1,998.5	3,857.2	3,765.5	42.056		
8,300.0	7,547.9	8,255.9	7,547.9	54.1	51.2	92.74	1,937.9	1,998.5	3,857.2	3,765.4	42.038		
8,400.0	7,647.9	8,355.9	7,647.9	54.1	51.2	92.74	1,937.9	1,998.5	3,857.2	3,765.4	42.020		
8,500.0	7,747.9	8,455.9	7,747.9	54.2	51.2	92.74	1,937.9	1,998.5	3,857.2	3,765.3	42.002		
8,600.0	7,847.9	8,555.9	7,847.9	54.2	51.2	92.74	1,937.9	1,998.5	3,857.2	3,765.3	41.983		
8,601.1	7,849.0	8,557.1	7,849.0	54.2	51.2	92.74	1,937.9	1,998.5	3,857.2	3,765.3	41.983		

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 Laramie 0993-20-13E - Slot A-5
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-13E	<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>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	133.64	-16.5	17.4	24.0				
100.0	100.0	100.0	100.0	0.4	0.4	133.64	-16.5	17.4	24.0	23.2	30.272		
200.0	200.0	200.0	200.0	1.2	1.2	133.64	-16.5	17.4	24.0	21.5	9.705	CC	
200.0	200.0	200.0	200.0	1.2	1.2	133.64	-16.5	17.4	24.0	21.5	9.705		
300.0	300.0	299.9	299.9	1.6	1.7	-157.26	-15.8	18.3	24.2	21.0	7.644	ES	
400.0	400.0	399.3	399.1	2.5	3.3	-170.20	-12.3	22.5	28.2	23.5	6.007		
500.0	499.7	497.5	496.8	4.0	4.5	175.29	-6.3	29.8	40.2	32.9	5.492	SF	
600.0	599.1	593.6	592.0	4.6	5.5	162.15	2.2	40.2	60.6	51.7	6.852		
700.0	697.9	687.4	684.3	5.1	6.4	148.89	13.0	53.3	87.6	77.5	8.699		
800.0	796.1	778.7	773.3	5.9	7.1	141.32	25.7	68.8	120.1	108.7	10.543		
900.0	893.5	867.2	858.8	6.6	7.8	136.58	40.2	86.4	157.5	145.0	12.600		
1,000.0	989.8	952.6	940.5	7.4	8.4	133.34	56.2	105.8	199.6	186.1	14.808		
1,100.0	1,084.9	1,034.8	1,018.0	8.1	9.0	130.93	73.4	126.7	246.1	231.7	17.116		
1,200.0	1,178.6	1,113.6	1,091.5	8.8	9.5	129.00	91.5	148.7	296.9	281.6	19.497		
1,300.0	1,270.7	1,188.9	1,160.8	9.4	10.0	127.34	110.4	171.6	351.6	335.5	21.924		
1,400.0	1,361.1	1,260.7	1,225.9	10.1	10.4	125.80	129.6	195.0	410.0	393.2	24.371		
1,500.0	1,449.6	1,329.1	1,286.9	10.7	10.8	124.32	149.2	218.8	471.9	454.4	26.891		
1,600.0	1,536.0	1,398.4	1,347.9	11.3	11.0	122.94	170.1	244.1	537.0	518.7	29.406		
1,700.0	1,620.4	1,472.2	1,412.7	11.6	11.3	123.15	192.5	271.4	603.6	584.6	31.746		
1,800.0	1,704.6	1,545.8	1,477.3	12.0	11.5	124.33	214.8	298.6	670.6	650.8	33.837		
1,900.0	1,788.8	1,619.4	1,542.0	12.4	11.7	125.31	237.2	325.7	737.7	717.0	35.693		
2,000.0	1,873.1	1,693.0	1,606.6	12.8	12.0	126.12	259.6	352.9	804.9	783.3	37.345		
2,100.0	1,957.3	1,766.6	1,671.3	13.3	12.3	126.81	281.9	380.1	872.2	849.7	38.810		
2,200.0	2,041.5	1,840.2	1,735.9	14.0	12.5	127.40	304.3	407.3	939.5	916.1	40.120		
2,300.0	2,125.7	1,913.8	1,800.6	14.8	12.8	127.91	326.7	434.5	1,006.9	982.5	41.292		
2,400.0	2,209.9	1,987.4	1,865.2	15.7	13.1	128.36	349.0	461.6	1,074.3	1,048.9	42.338		
2,500.0	2,294.1	2,061.0	1,929.9	16.7	13.4	128.75	371.4	488.8	1,141.8	1,115.4	43.273		
2,600.0	2,378.4	2,134.6	1,994.5	17.7	13.7	129.10	393.8	516.0	1,209.2	1,181.8	44.115		
2,700.0	2,462.6	2,208.2	2,059.2	18.6	14.0	129.42	416.1	543.2	1,276.7	1,248.3	44.878		
2,800.0	2,546.8	2,281.8	2,123.8	19.6	14.3	129.70	438.5	570.4	1,344.3	1,314.8	45.561		
2,900.0	2,631.0	2,355.5	2,188.4	20.6	14.6	129.96	460.9	597.5	1,411.8	1,381.2	46.168		
3,000.0	2,715.2	2,429.1	2,253.1	21.6	15.2	130.19	483.2	624.7	1,479.4	1,447.7	46.759		
3,100.0	2,799.4	2,502.7	2,317.7	22.6	15.8	130.40	505.6	651.9	1,546.9	1,514.2	47.265		
3,200.0	2,883.6	2,576.3	2,382.4	23.7	16.4	130.60	527.9	679.1	1,614.5	1,580.7	47.736		
3,300.0	2,967.9	2,649.9	2,447.0	24.7	17.1	130.78	550.3	706.3	1,682.1	1,647.2	48.163		
3,400.0	3,052.1	2,723.5	2,511.7	25.7	17.7	130.94	572.7	733.4	1,749.7	1,713.6	48.556		
3,500.0	3,136.3	2,797.1	2,576.3	26.7	18.3	131.10	595.0	760.6	1,817.3	1,780.1	48.916		
3,600.0	3,220.5	2,870.7	2,641.0	27.7	19.0	131.24	617.4	787.8	1,884.9	1,846.6	49.249		
3,700.0	3,304.7	2,944.3	2,705.6	28.7	19.6	131.37	639.8	815.0	1,952.5	1,913.1	49.556		
3,800.0	3,388.9	3,017.9	2,770.2	29.7	20.2	131.49	662.1	842.1	2,020.1	1,979.6	49.840		
3,900.0	3,473.2	3,091.5	2,834.9	30.8	20.9	131.61	684.5	869.3	2,087.7	2,046.1	50.103		
4,000.0	3,557.4	3,165.1	2,899.5	31.8	21.5	131.72	706.9	896.5	2,155.4	2,112.5	50.347		
4,100.0	3,641.6	3,238.7	2,964.2	32.8	22.1	131.82	729.2	923.7	2,223.0	2,179.0	50.574		
4,200.0	3,725.8	3,312.3	3,028.8	33.8	22.8	131.91	751.6	950.9	2,290.6	2,245.5	50.785		
4,300.0	3,810.0	3,385.9	3,093.5	34.8	23.4	132.00	774.0	978.0	2,358.3	2,312.0	50.982		
4,400.0	3,894.2	3,459.5	3,158.1	35.9	24.1	132.09	796.3	1,005.2	2,425.9	2,378.5	51.167		
4,500.0	3,978.4	3,533.1	3,222.8	36.9	24.7	132.17	818.7	1,032.4	2,493.5	2,445.0	51.339		
4,600.0	4,062.7	3,606.8	3,287.4	37.9	25.3	132.25	841.0	1,059.6	2,561.2	2,511.5	51.501		
4,700.0	4,146.9	3,680.4	3,352.0	38.9	26.0	132.32	863.4	1,086.8	2,628.8	2,577.9	51.652		
4,800.0	4,231.1	3,754.0	3,416.7	40.0	26.6	132.39	885.8	1,113.9	2,696.5	2,644.4	51.795		
4,900.0	4,315.3	3,827.6	3,481.3	41.0	27.2	132.45	908.1	1,141.1	2,764.1	2,710.9	51.929		
5,000.0	4,399.5	3,901.2	3,546.0	42.0	27.9	132.52	930.5	1,168.3	2,831.8	2,777.4	52.055		

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 Laramie 0993-20-13E - Slot A-5
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-13E	<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>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design											Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard											Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N/-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning
5,100.0	4,483.7	3,974.8	3,610.6	43.0	28.5	132.58	952.9	1,195.5	2,899.5	2,843.9	52.175	
5,200.0	4,567.9	4,048.4	3,675.3	44.1	29.2	132.63	975.2	1,222.7	2,967.1	2,910.4	52.287	
5,300.0	4,652.2	4,122.0	3,739.9	45.1	29.8	132.69	997.6	1,249.8	3,034.8	2,976.9	52.393	
5,400.0	4,736.4	4,195.6	3,804.6	46.1	30.4	132.74	1,020.0	1,277.0	3,102.4	3,043.3	52.494	
5,500.0	4,820.6	4,269.2	3,869.2	47.1	31.1	132.79	1,042.3	1,304.2	3,170.1	3,109.8	52.589	
5,600.0	4,905.5	4,343.5	3,934.4	48.1	31.7	134.10	1,064.9	1,331.6	3,237.1	3,175.6	52.672	
5,700.0	4,992.6	4,419.6	4,001.3	49.0	32.4	135.56	1,088.0	1,359.7	3,301.8	3,239.1	52.697	
5,800.0	5,081.8	4,497.7	4,069.8	49.9	33.1	136.82	1,111.7	1,388.5	3,364.1	3,300.3	52.682	
5,900.0	5,172.9	4,577.4	4,139.8	50.6	33.8	137.92	1,136.0	1,418.0	3,424.0	3,358.9	52.637	
6,000.0	5,265.6	4,658.6	4,211.2	51.3	34.5	138.85	1,160.6	1,448.0	3,481.2	3,415.0	52.565	
6,100.0	5,360.0	4,741.2	4,283.7	51.9	35.2	139.65	1,185.7	1,478.5	3,535.7	3,468.4	52.469	
6,200.0	5,455.6	4,825.0	4,357.4	52.4	35.9	140.31	1,211.2	1,509.4	3,587.6	3,519.0	52.352	
6,300.0	5,552.5	4,909.9	4,431.9	52.8	36.7	140.85	1,237.0	1,540.8	3,636.6	3,566.9	52.216	
6,400.0	5,650.3	4,995.7	4,507.3	53.2	37.4	141.28	1,263.1	1,572.5	3,682.7	3,612.0	52.066	
6,500.0	5,749.0	5,082.2	4,583.3	53.4	38.2	141.61	1,289.4	1,604.4	3,726.0	3,654.2	51.904	
6,600.0	5,848.2	5,169.3	4,659.8	53.6	38.9	141.85	1,315.8	1,636.6	3,766.3	3,693.5	51.733	
6,700.0	5,947.9	5,256.9	4,736.6	53.8	39.7	142.00	1,342.4	1,668.9	3,803.7	3,730.0	51.560	
6,800.0	6,047.9	5,344.6	4,813.7	53.8	40.4	142.07	1,369.1	1,701.3	3,838.2	3,763.5	51.394	
6,900.0	6,147.9	5,432.4	4,890.8	53.9	41.2	101.45	1,395.8	1,733.7	3,870.6	3,795.2	51.331	
7,000.0	6,247.9	6,854.0	6,247.9	53.9	47.4	97.46	1,617.4	2,003.1	3,890.3	3,802.8	44.497	
7,100.0	6,347.9	6,954.0	6,347.9	53.9	47.5	97.46	1,617.4	2,003.1	3,890.3	3,802.8	44.478	
7,200.0	6,447.9	7,054.0	6,447.9	53.9	47.5	97.46	1,617.4	2,003.1	3,890.3	3,802.8	44.459	
7,300.0	6,547.9	7,154.0	6,547.9	53.9	47.5	97.46	1,617.4	2,003.1	3,890.3	3,802.7	44.439	
7,400.0	6,647.9	7,254.0	6,647.9	53.9	47.5	97.46	1,617.4	2,003.1	3,890.3	3,802.7	44.419	
7,500.0	6,747.9	7,354.0	6,747.9	54.0	47.5	97.46	1,617.4	2,003.1	3,890.3	3,802.6	44.399	
7,600.0	6,847.9	7,454.0	6,847.9	54.0	47.6	97.46	1,617.4	2,003.1	3,890.3	3,802.6	44.379	
7,700.0	6,947.9	7,554.0	6,947.9	54.0	47.6	97.46	1,617.4	2,003.1	3,890.3	3,802.6	44.359	
7,800.0	7,047.9	7,654.0	7,047.9	54.0	47.6	97.46	1,617.4	2,003.1	3,890.3	3,802.5	44.339	
7,900.0	7,147.9	7,754.0	7,147.9	54.0	47.6	97.46	1,617.4	2,003.1	3,890.3	3,802.5	44.318	
8,000.0	7,247.9	7,854.0	7,247.9	54.1	47.7	97.46	1,617.4	2,003.1	3,890.3	3,802.4	44.298	
8,100.0	7,347.9	7,954.0	7,347.9	54.1	47.7	97.46	1,617.4	2,003.1	3,890.3	3,802.4	44.277	
8,200.0	7,447.9	8,054.0	7,447.9	54.1	47.7	97.46	1,617.4	2,003.1	3,890.3	3,802.4	44.256	
8,300.0	7,547.9	8,154.0	7,547.9	54.1	47.7	97.46	1,617.4	2,003.1	3,890.3	3,802.3	44.235	
8,400.0	7,647.9	8,254.0	7,647.9	54.1	47.7	97.46	1,617.4	2,003.1	3,890.3	3,802.3	44.214	
8,500.0	7,747.9	8,354.0	7,747.9	54.2	47.8	97.46	1,617.4	2,003.1	3,890.3	3,802.2	44.193	
8,600.0	7,847.9	8,454.0	7,847.9	54.2	47.8	97.46	1,617.4	2,003.1	3,890.3	3,802.2	44.172	
8,601.1	7,849.0	8,455.1	7,849.0	54.2	47.8	97.46	1,617.4	2,003.1	3,890.3	3,802.2	44.172	

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 Laramie 0993-20-13E - Slot A-5
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-13E	<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>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	133.21	-27.5	29.2	40.1				
100.0	100.0	100.0	100.0	0.4	0.4	133.21	-27.5	29.2	40.1	39.3	50.663		
200.0	200.0	200.0	200.0	1.2	1.2	133.21	-27.5	29.2	40.1	37.7	16.243	CC	
200.0	200.0	200.0	200.0	1.2	1.2	133.21	-27.5	29.2	40.1	37.7	16.243		
300.0	300.0	299.8	299.7	1.6	1.6	-155.89	-27.0	29.9	40.3	37.2	12.915	ES	
400.0	400.0	399.0	398.8	2.5	3.0	-163.21	-24.4	33.8	44.2	39.7	9.700		
500.0	499.7	497.0	496.4	4.0	4.3	-173.95	-19.4	41.2	55.2	48.2	7.875	SF	
600.0	599.1	592.9	591.5	4.6	5.4	173.07	-12.3	51.7	74.4	65.8	8.675		
700.0	697.9	686.4	683.6	5.1	6.2	158.59	-3.2	65.2	100.9	91.0	10.197		
800.0	796.1	777.3	772.4	5.9	7.0	149.79	7.6	81.2	133.4	122.1	11.806		
900.0	893.5	865.3	857.5	6.6	7.7	144.10	19.9	99.5	171.4	159.0	13.723		
1,000.0	989.8	949.9	938.6	7.4	8.3	140.13	33.5	119.7	214.5	201.0	15.852		
1,100.0	1,084.9	1,031.1	1,015.5	8.1	8.8	137.17	48.1	141.3	262.4	247.9	18.126		
1,200.0	1,178.6	1,108.8	1,088.1	8.8	9.4	134.81	63.5	164.1	314.6	299.3	20.507		
1,300.0	1,270.7	1,182.7	1,156.3	9.4	9.8	132.80	79.4	187.7	371.1	354.9	22.964		
1,400.0	1,361.1	1,252.9	1,220.2	10.1	10.2	130.98	95.7	211.8	431.4	414.5	25.526		
1,500.0	1,449.6	1,324.5	1,284.6	10.7	10.5	129.35	113.2	237.8	495.2	477.5	28.095		
1,600.0	1,536.0	1,399.3	1,351.7	11.3	10.7	128.04	131.7	265.2	560.9	542.5	30.501		
1,700.0	1,620.4	1,472.5	1,417.4	11.6	11.0	128.23	149.8	292.0	628.2	609.1	32.879		
1,800.0	1,704.6	1,545.4	1,482.9	12.0	11.2	129.37	167.8	318.7	695.9	676.0	35.037		
1,900.0	1,788.8	1,618.4	1,548.3	12.4	11.5	130.32	185.8	345.4	763.7	743.0	36.975		
2,000.0	1,873.1	1,691.4	1,613.8	12.8	11.7	131.11	203.8	372.1	831.6	810.1	38.716		
2,100.0	1,957.3	1,764.4	1,679.3	13.3	12.0	131.79	221.8	398.8	899.5	877.2	40.275		
2,200.0	2,041.5	1,837.4	1,744.8	14.0	12.3	132.37	239.9	425.5	967.5	944.3	41.680		
2,300.0	2,125.7	1,910.3	1,810.3	14.8	12.5	132.87	257.9	452.2	1,035.6	1,011.5	42.949		
2,400.0	2,209.9	1,983.3	1,875.8	15.7	12.8	133.31	275.9	478.9	1,103.7	1,078.6	44.088		
2,500.0	2,294.1	2,056.3	1,941.2	16.7	13.1	133.71	293.9	505.6	1,171.8	1,145.8	45.117		
2,600.0	2,378.4	2,129.3	2,006.7	17.7	13.4	134.06	311.9	532.3	1,240.0	1,213.0	46.050		
2,700.0	2,462.6	2,202.3	2,072.2	18.6	13.7	134.37	329.9	559.0	1,308.1	1,280.2	46.900		
2,800.0	2,546.8	2,275.2	2,137.7	19.6	14.0	134.65	348.0	585.7	1,376.3	1,347.5	47.666		
2,900.0	2,631.0	2,348.2	2,203.2	20.6	14.3	134.91	366.0	612.4	1,444.5	1,414.7	48.363		
3,000.0	2,715.2	2,421.2	2,268.7	21.6	14.6	135.14	384.0	639.1	1,512.8	1,481.9	48.996		
3,100.0	2,799.4	2,494.2	2,334.1	22.6	15.0	135.35	402.0	665.9	1,581.0	1,549.1	49.592		
3,200.0	2,883.6	2,567.2	2,399.6	23.7	15.6	135.55	420.0	692.6	1,649.3	1,616.4	50.169		
3,300.0	2,967.9	2,640.1	2,465.1	24.7	16.1	135.73	438.1	719.3	1,717.5	1,683.6	50.632		
3,400.0	3,052.1	2,713.1	2,530.6	25.7	16.7	135.89	456.1	746.0	1,785.8	1,750.8	51.083		
3,500.0	3,136.3	2,786.1	2,596.1	26.7	17.3	136.05	474.1	772.7	1,854.1	1,818.1	51.503		
3,600.0	3,220.5	2,859.1	2,661.5	27.7	17.9	136.19	492.1	799.4	1,922.3	1,885.3	51.891		
3,700.0	3,304.7	2,932.0	2,727.0	28.7	18.5	136.32	510.1	826.1	1,990.6	1,952.5	52.250		
3,800.0	3,388.9	3,005.0	2,792.5	29.7	19.0	136.45	528.1	852.8	2,058.9	2,019.8	52.583		
3,900.0	3,473.2	3,078.0	2,858.0	30.8	19.6	136.56	546.2	879.5	2,127.2	2,087.0	52.894		
4,000.0	3,557.4	3,151.0	2,923.5	31.8	20.2	136.67	564.2	906.2	2,195.5	2,154.2	53.183		
4,100.0	3,641.6	3,224.0	2,989.0	32.8	20.8	136.77	582.2	932.9	2,263.8	2,221.5	53.452		
4,200.0	3,725.8	3,296.9	3,054.4	33.8	21.4	136.87	600.2	959.6	2,332.1	2,288.7	53.704		
4,300.0	3,810.0	3,369.9	3,119.9	34.8	22.0	136.96	618.2	986.3	2,400.4	2,355.9	53.939		
4,400.0	3,894.2	3,442.9	3,185.4	35.9	22.6	137.05	636.2	1,013.1	2,468.8	2,423.2	54.160		
4,500.0	3,978.4	3,515.9	3,250.9	36.9	23.1	137.13	654.3	1,039.8	2,537.1	2,490.4	54.367		
4,600.0	4,062.7	3,588.9	3,316.4	37.9	23.7	137.20	672.3	1,066.5	2,605.4	2,557.6	54.562		
4,700.0	4,146.9	3,661.8	3,381.9	38.9	24.3	137.28	690.3	1,093.2	2,673.7	2,624.9	54.745		
4,800.0	4,231.1	3,734.8	3,447.3	40.0	24.9	137.35	708.3	1,119.9	2,742.0	2,692.1	54.917		
4,900.0	4,315.3	3,807.8	3,512.8	41.0	25.5	137.41	726.3	1,146.6	2,810.4	2,759.3	55.080		
5,000.0	4,399.5	3,880.8	3,578.3	42.0	26.1	137.48	744.4	1,173.3	2,878.7	2,826.6	55.233		

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 Laramie 0993-20-13E - Slot A-5
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-13E	<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>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N/-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
5,100.0	4,483.7	3,953.7	3,643.8	43.0	26.7	137.54	762.4	1,200.0	2,947.0	2,893.8	55.378		
5,200.0	4,567.9	4,026.7	3,709.3	44.1	27.2	137.59	780.4	1,226.7	3,015.4	2,961.0	55.516		
5,300.0	4,652.2	4,099.7	3,774.8	45.1	27.8	137.65	798.4	1,253.4	3,083.7	3,028.3	55.646		
5,400.0	4,736.4	4,172.7	3,840.2	46.1	28.4	137.70	816.4	1,280.1	3,152.0	3,095.5	55.769		
5,500.0	4,820.6	4,245.7	3,905.7	47.1	29.0	137.75	834.4	1,306.8	3,220.4	3,162.7	55.886		
5,600.0	4,905.5	4,319.3	3,971.8	48.1	29.6	138.98	852.6	1,333.8	3,288.0	3,229.2	55.985		
5,700.0	4,992.6	4,395.2	4,039.9	49.0	30.2	140.33	871.4	1,361.5	3,353.1	3,293.3	56.009		
5,800.0	5,081.8	4,473.0	4,109.7	49.9	30.8	141.50	890.6	1,390.0	3,415.7	3,354.7	55.981		
5,900.0	5,172.9	4,552.7	4,181.2	50.6	31.5	142.50	910.3	1,419.2	3,475.6	3,413.5	55.913		
6,000.0	5,265.6	4,634.2	4,254.3	51.3	32.1	143.35	930.4	1,449.0	3,532.8	3,469.5	55.808		
6,100.0	5,360.0	4,717.2	4,328.8	51.9	32.8	144.07	950.9	1,479.4	3,587.0	3,522.6	55.671		
6,200.0	5,455.6	4,801.7	4,404.6	52.4	33.5	144.66	971.7	1,510.3	3,638.4	3,572.8	55.505		
6,300.0	5,552.5	4,887.4	4,481.5	52.8	34.2	145.14	992.9	1,541.7	3,686.7	3,620.0	55.315		
6,400.0	5,650.3	4,974.2	4,559.4	53.2	34.9	145.52	1,014.3	1,573.4	3,731.9	3,664.2	55.102		
6,500.0	5,749.0	5,061.9	4,638.1	53.4	35.6	145.80	1,036.0	1,605.5	3,774.0	3,705.3	54.873		
6,600.0	5,848.2	5,150.4	4,717.5	53.6	36.3	145.99	1,057.8	1,637.9	3,813.0	3,743.2	54.631		
6,700.0	5,947.9	5,239.5	4,797.5	53.8	37.0	146.10	1,079.8	1,670.5	3,848.8	3,778.1	54.382		
6,800.0	6,047.9	5,329.0	4,877.8	53.8	37.7	146.13	1,101.9	1,703.3	3,881.5	3,809.8	54.141		
6,900.0	6,147.9	5,418.7	4,958.3	53.9	38.5	105.54	1,124.1	1,736.1	3,911.9	3,839.5	54.026		
7,000.0	6,247.9	6,761.3	6,247.9	53.9	44.0	102.13	1,296.2	1,991.2	3,933.2	3,849.7	47.065		
7,100.0	6,347.9	6,861.3	6,347.9	53.9	44.0	102.13	1,296.2	1,991.2	3,933.2	3,849.6	47.042		
7,200.0	6,447.9	6,961.3	6,447.9	53.9	44.0	102.13	1,296.2	1,991.2	3,933.2	3,849.6	47.019		
7,300.0	6,547.9	7,061.3	6,547.9	53.9	44.1	102.13	1,296.2	1,991.2	3,933.2	3,849.6	46.996		
7,400.0	6,647.9	7,161.3	6,647.9	53.9	44.1	102.13	1,296.2	1,991.2	3,933.2	3,849.5	46.973		
7,500.0	6,747.9	7,261.3	6,747.9	54.0	44.1	102.13	1,296.2	1,991.2	3,933.2	3,849.5	46.950		
7,600.0	6,847.9	7,361.3	6,847.9	54.0	44.1	102.13	1,296.2	1,991.2	3,933.2	3,849.4	46.926		
7,700.0	6,947.9	7,461.3	6,947.9	54.0	44.2	102.13	1,296.2	1,991.2	3,933.2	3,849.4	46.902		
7,800.0	7,047.9	7,561.3	7,047.9	54.0	44.2	102.13	1,296.2	1,991.2	3,933.2	3,849.3	46.878		
7,900.0	7,147.9	7,661.3	7,147.9	54.0	44.2	102.13	1,296.2	1,991.2	3,933.2	3,849.3	46.854		
8,000.0	7,247.9	7,761.3	7,247.9	54.1	44.2	102.13	1,296.2	1,991.2	3,933.2	3,849.3	46.830		
8,100.0	7,347.9	7,861.3	7,347.9	54.1	44.3	102.13	1,296.2	1,991.2	3,933.2	3,849.2	46.806		
8,200.0	7,447.9	7,961.3	7,447.9	54.1	44.3	102.13	1,296.2	1,991.2	3,933.2	3,849.2	46.782		
8,300.0	7,547.9	8,061.3	7,547.9	54.1	44.3	102.13	1,296.2	1,991.2	3,933.2	3,849.1	46.757		
8,400.0	7,647.9	8,161.3	7,647.9	54.1	44.3	102.13	1,296.2	1,991.2	3,933.2	3,849.1	46.732		
8,500.0	7,747.9	8,261.3	7,747.9	54.2	44.4	102.13	1,296.2	1,991.2	3,933.2	3,849.0	46.708		
8,600.0	7,847.9	8,361.3	7,847.9	54.2	44.4	102.13	1,296.2	1,991.2	3,933.2	3,849.0	46.682		
8,601.1	7,849.0	8,362.4	7,849.0	54.2	44.4	102.13	1,296.2	1,991.2	3,933.2	3,849.0	46.682		

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 Laramie 0993-20-13E - Slot A-5
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-13E	<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>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard													Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	133.22	-38.4	40.9	56.1					
100.0	100.0	100.0	100.0	0.4	0.4	133.22	-38.4	40.9	56.1	55.3	70.785			
200.0	200.0	200.0	200.0	1.2	1.2	133.22	-38.4	40.9	56.1	53.6	22.694	CC		
200.0	200.0	200.0	200.0	1.2	1.2	133.22	-38.4	40.9	56.1	53.6	22.694			
300.0	300.0	299.4	299.4	1.6	1.7	-155.94	-37.8	41.9	56.5	53.3	17.785	ES		
400.0	400.0	398.1	397.9	2.5	3.3	-161.59	-35.4	46.7	61.1	56.4	12.925			
500.0	499.7	495.4	494.8	4.0	4.5	-169.96	-31.0	55.0	72.8	65.6	10.158	SF		
600.0	599.1	590.6	589.1	4.6	5.5	178.44	-25.0	66.7	92.6	83.9	10.617			
700.0	697.9	683.2	680.2	5.1	6.3	164.20	-17.3	81.4	120.0	109.9	11.925			
800.0	796.1	772.9	767.7	5.9	7.1	155.20	-8.3	98.7	153.8	142.3	13.368			
900.0	893.5	859.4	851.4	6.6	7.7	149.19	1.9	118.3	193.5	180.8	15.190			
1,000.0	989.8	942.4	930.8	7.4	8.3	144.94	13.0	139.7	238.5	224.7	17.274			
1,100.0	1,084.9	1,021.7	1,005.8	8.1	8.9	141.73	24.9	162.5	288.5	273.7	19.542			
1,200.0	1,178.6	1,100.0	1,078.9	8.8	9.4	139.16	37.7	187.3	343.1	327.4	21.869			
1,300.0	1,270.7	1,168.6	1,142.2	9.4	9.8	136.94	50.0	210.8	402.0	385.6	24.529			
1,400.0	1,361.1	1,243.7	1,210.8	10.1	10.0	135.09	64.1	237.9	464.4	447.3	27.146			
1,500.0	1,449.6	1,319.8	1,280.2	10.7	10.3	133.62	78.4	265.5	528.9	511.1	29.644			
1,600.0	1,536.0	1,393.8	1,347.8	11.3	10.5	132.40	92.3	292.3	595.4	576.8	32.011			
1,700.0	1,620.4	1,466.1	1,413.8	11.6	10.7	130.61	106.0	318.5	663.7	644.4	34.427			
1,800.0	1,704.6	1,538.1	1,479.5	12.0	11.0	133.76	119.5	344.6	732.3	712.3	36.647			
1,900.0	1,788.8	1,610.1	1,545.2	12.4	11.2	134.72	133.1	370.6	801.1	780.3	38.659			
2,000.0	1,873.1	1,682.1	1,611.0	12.8	11.5	135.53	146.6	396.7	869.9	848.4	40.480			
2,100.0	1,957.3	1,754.1	1,676.7	13.3	11.8	136.22	160.2	422.8	938.8	916.6	42.131			
2,200.0	2,041.5	1,826.1	1,742.4	14.0	12.0	136.82	173.8	448.9	1,007.8	984.7	43.633			
2,300.0	2,125.7	1,898.1	1,808.2	14.8	12.3	137.34	187.3	475.0	1,076.9	1,052.9	44.998			
2,400.0	2,209.9	1,970.2	1,873.9	15.7	12.6	137.80	200.9	501.1	1,146.0	1,121.2	46.233			
2,500.0	2,294.1	2,042.2	1,939.6	16.7	12.9	138.21	214.5	527.2	1,215.1	1,189.4	47.361			
2,600.0	2,378.4	2,114.2	2,005.4	17.7	13.2	138.57	228.0	553.2	1,284.2	1,257.7	48.392			
2,700.0	2,462.6	2,186.2	2,071.1	18.6	13.5	138.90	241.6	579.3	1,353.4	1,326.0	49.332			
2,800.0	2,546.8	2,258.2	2,136.8	19.6	13.8	139.19	255.2	605.4	1,422.6	1,394.3	50.190			
2,900.0	2,631.0	2,330.2	2,202.6	20.6	14.1	139.46	268.7	631.5	1,491.8	1,462.6	50.979			
3,000.0	2,715.2	2,402.2	2,268.3	21.6	14.4	139.70	282.3	657.6	1,561.0	1,530.9	51.707			
3,100.0	2,799.4	2,474.2	2,334.0	22.6	14.7	139.93	295.8	683.7	1,630.3	1,599.2	52.371			
3,200.0	2,883.6	2,546.2	2,399.8	23.7	15.1	140.13	309.4	709.8	1,699.5	1,667.5	52.982			
3,300.0	2,967.9	2,618.2	2,465.5	24.7	15.5	140.32	323.0	735.8	1,768.8	1,735.8	53.543			
3,400.0	3,052.1	2,690.2	2,531.2	25.7	15.9	140.50	336.5	761.9	1,838.1	1,804.1	54.093			
3,500.0	3,136.3	2,762.3	2,597.0	26.7	16.5	140.66	350.1	788.0	1,907.4	1,872.4	54.580			
3,600.0	3,220.5	2,834.3	2,662.7	27.7	17.0	140.81	363.7	814.1	1,976.6	1,940.7	55.029			
3,700.0	3,304.7	2,906.3	2,728.4	28.7	17.5	140.95	377.2	840.2	2,045.9	2,009.0	55.449			
3,800.0	3,388.9	2,978.3	2,794.2	29.7	18.1	141.09	390.8	866.3	2,115.2	2,077.4	55.843			
3,900.0	3,473.2	3,050.3	2,859.9	30.8	18.6	141.21	404.4	892.4	2,184.5	2,145.7	56.209			
4,000.0	3,557.4	3,122.3	2,925.6	31.8	19.1	141.32	417.9	918.5	2,253.9	2,214.0	56.552			
4,100.0	3,641.6	3,194.3	2,991.4	32.8	19.7	141.43	431.5	944.5	2,323.2	2,282.3	56.873			
4,200.0	3,725.8	3,266.3	3,057.1	33.8	20.2	141.54	445.1	970.6	2,392.5	2,350.7	57.174			
4,300.0	3,810.0	3,338.3	3,122.8	34.8	20.7	141.63	458.6	996.7	2,461.8	2,419.0	57.456			
4,400.0	3,894.2	3,410.3	3,188.6	35.9	21.3	141.72	472.2	1,022.8	2,531.2	2,487.3	57.721			
4,500.0	3,978.4	3,482.3	3,254.3	36.9	21.8	141.81	485.7	1,048.9	2,600.5	2,555.6	57.971			
4,600.0	4,062.7	3,554.4	3,320.0	37.9	22.3	141.89	499.3	1,075.0	2,669.8	2,623.9	58.207			
4,700.0	4,146.9	3,626.4	3,385.8	38.9	22.9	141.97	512.9	1,101.1	2,739.2	2,692.3	58.429			
4,800.0	4,231.1	3,698.4	3,451.5	40.0	23.4	142.05	526.4	1,127.1	2,808.5	2,760.6	58.638			
4,900.0	4,315.3	3,770.4	3,517.2	41.0	24.0	142.12	540.0	1,153.2	2,877.8	2,828.9	58.836			
5,000.0	4,399.5	3,842.4	3,583.0	42.0	24.5	142.18	553.6	1,179.3	2,947.2	2,897.2	59.024			

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 Laramie 0993-20-13E - Slot A-5
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-13E	<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>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft	
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft	
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning		
5,100.0	4,483.7	3,914.4	3,648.7	43.0	25.0	142.25	567.1	1,205.4	3,016.5	2,965.6	59.202			
5,200.0	4,567.9	3,986.4	3,714.4	44.1	25.6	142.31	580.7	1,231.5	3,085.9	3,033.9	59.370			
5,300.0	4,652.2	4,058.4	3,780.2	45.1	26.1	142.37	594.3	1,257.6	3,155.2	3,102.2	59.530			
5,400.0	4,736.4	4,130.4	3,845.9	46.1	26.6	142.42	607.8	1,283.7	3,224.6	3,170.5	59.682			
5,500.0	4,820.6	4,202.4	3,911.6	47.1	27.2	142.48	621.4	1,309.7	3,293.9	3,238.9	59.827			
5,600.0	4,905.5	4,275.2	3,978.1	48.1	27.7	143.62	635.1	1,336.1	3,362.5	3,306.4	59.949			
5,700.0	4,992.6	4,350.3	4,046.6	49.0	28.3	144.88	649.2	1,363.3	3,428.5	3,371.3	59.975			
5,800.0	5,081.8	4,427.6	4,117.2	49.9	28.9	145.96	663.8	1,391.3	3,491.8	3,433.6	59.937			
5,900.0	5,172.9	4,507.0	4,189.7	50.6	29.5	146.89	678.7	1,420.1	3,552.3	3,492.9	59.848			
6,000.0	5,265.6	4,588.3	4,263.9	51.3	30.1	147.67	694.1	1,449.5	3,609.8	3,549.4	59.714			
6,100.0	5,360.0	4,671.4	4,339.8	51.9	30.7	148.32	709.7	1,479.6	3,664.3	3,602.8	59.538			
6,200.0	5,455.6	4,756.1	4,417.1	52.4	31.3	148.86	725.7	1,510.3	3,715.7	3,653.1	59.327			
6,300.0	5,552.5	4,842.3	4,495.7	52.8	32.0	149.30	741.9	1,541.5	3,763.9	3,700.2	59.082			
6,400.0	5,650.3	4,929.8	4,575.6	53.2	32.6	149.64	758.4	1,573.2	3,808.9	3,744.2	58.811			
6,500.0	5,749.0	5,018.3	4,656.4	53.4	33.3	149.89	775.1	1,605.3	3,850.6	3,784.8	58.517			
6,600.0	5,848.2	5,107.9	4,738.1	53.6	34.0	150.06	791.9	1,637.7	3,889.0	3,822.1	58.205			
6,700.0	5,947.9	5,198.2	4,820.6	53.8	34.6	150.15	808.9	1,670.5	3,923.9	3,856.1	57.884			
6,800.0	6,047.9	5,289.1	4,903.6	53.8	35.3	150.16	826.1	1,703.4	3,955.5	3,886.8	57.570			
6,900.0	6,147.9	5,380.4	4,986.9	53.9	36.0	109.61	843.3	1,736.5	3,984.7	3,915.3	57.416			
7,000.0	6,247.9	6,688.0	6,247.9	53.9	41.2	106.62	975.3	1,990.4	4,012.2	3,932.0	50.060			
7,100.0	6,347.9	6,788.0	6,347.9	53.9	41.2	106.62	975.3	1,990.4	4,012.2	3,932.0	50.034			
7,200.0	6,447.9	6,888.0	6,447.9	53.9	41.2	106.62	975.3	1,990.4	4,012.2	3,931.9	50.007			
7,300.0	6,547.9	6,988.0	6,547.9	53.9	41.3	106.62	975.3	1,990.4	4,012.2	3,931.9	49.980			
7,400.0	6,647.9	7,088.0	6,647.9	53.9	41.3	106.62	975.3	1,990.4	4,012.2	3,931.8	49.952			
7,500.0	6,747.9	7,188.0	6,747.9	54.0	41.3	106.62	975.3	1,990.4	4,012.2	3,931.8	49.925			
7,600.0	6,847.9	7,288.0	6,847.9	54.0	41.4	106.62	975.3	1,990.4	4,012.2	3,931.7	49.897			
7,700.0	6,947.9	7,388.0	6,947.9	54.0	41.4	106.62	975.3	1,990.4	4,012.2	3,931.7	49.870			
7,800.0	7,047.9	7,488.0	7,047.9	54.0	41.4	106.62	975.3	1,990.4	4,012.2	3,931.7	49.842			
7,900.0	7,147.9	7,588.0	7,147.9	54.0	41.4	106.62	975.3	1,990.4	4,012.2	3,931.6	49.814			
8,000.0	7,247.9	7,688.0	7,247.9	54.1	41.5	106.62	975.3	1,990.4	4,012.2	3,931.6	49.785			
8,100.0	7,347.9	7,788.0	7,347.9	54.1	41.5	106.62	975.3	1,990.4	4,012.2	3,931.5	49.757			
8,200.0	7,447.9	7,888.0	7,447.9	54.1	41.5	106.62	975.3	1,990.4	4,012.2	3,931.5	49.728			
8,300.0	7,547.9	7,988.0	7,547.9	54.1	41.5	106.62	975.3	1,990.4	4,012.2	3,931.4	49.700			
8,400.0	7,647.9	8,088.0	7,647.9	54.1	41.6	106.62	975.3	1,990.4	4,012.2	3,931.4	49.671			
8,500.0	7,747.9	8,188.0	7,747.9	54.2	41.6	106.62	975.3	1,990.4	4,012.2	3,931.3	49.642			
8,600.0	7,847.9	8,288.0	7,847.9	54.2	41.6	106.62	975.3	1,990.4	4,012.2	3,931.3	49.612			
8,601.1	7,849.0	8,289.1	7,849.0	54.2	41.6	106.62	975.3	1,990.4	4,012.2	3,931.3	49.612			

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 Laramie 0993-20-13E - Slot A-5
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-13E	<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>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	133.23	-49.3	52.5	72.0				
100.0	100.0	100.0	100.0	0.4	0.4	133.23	-49.3	52.5	72.0	71.2	90.916		
200.0	200.0	200.0	200.0	1.2	1.2	133.23	-49.3	52.5	72.0	69.5	29.148	CC	
200.0	200.0	200.0	200.0	1.2	1.2	133.23	-49.3	52.5	72.0	69.5	29.145		
300.0	300.0	298.9	298.9	1.6	1.7	-155.61	-48.9	53.6	72.6	69.4	22.738	ES	
400.0	400.0	397.0	396.9	2.5	3.2	-159.80	-47.1	58.5	77.7	72.8	16.075		
500.0	499.7	493.8	493.1	4.0	4.5	-166.30	-43.9	67.3	89.9	82.6	12.379	SF	
600.0	599.1	588.2	586.7	4.6	5.5	-176.58	-39.5	79.5	110.1	101.3	12.509		
700.0	697.9	679.9	677.0	5.1	6.3	169.69	-33.9	94.8	138.1	127.9	13.594		
800.0	796.1	768.6	763.6	5.9	7.0	160.77	-27.4	112.8	172.8	161.2	14.851		
900.0	893.5	853.9	846.0	6.6	7.7	154.68	-20.0	133.0	213.7	200.8	16.557		
1,000.0	989.8	935.4	924.1	7.4	8.3	150.29	-12.0	155.1	260.2	246.2	18.577		
1,100.0	1,084.9	1,012.9	997.5	8.1	8.8	146.94	-3.4	178.5	311.9	296.9	20.822		
1,200.0	1,178.6	1,086.4	1,066.2	8.8	9.3	144.23	5.4	202.8	368.4	352.6	23.239		
1,300.0	1,270.7	1,160.8	1,135.1	9.4	9.6	141.97	15.0	229.2	429.2	412.7	25.950		
1,400.0	1,361.1	1,238.0	1,206.5	10.1	9.8	140.19	25.1	256.9	492.5	475.3	28.535		
1,500.0	1,449.6	1,313.2	1,276.0	10.7	10.0	138.75	34.9	283.9	558.1	540.1	31.024		
1,600.0	1,536.0	1,386.2	1,343.5	11.3	10.2	137.51	44.5	310.0	625.8	607.1	33.420		
1,700.0	1,620.4	1,457.2	1,409.1	11.6	10.5	137.65	53.7	335.5	695.4	676.1	35.924		
1,800.0	1,704.6	1,527.9	1,474.5	12.0	10.7	138.74	63.0	360.8	765.4	745.4	38.250		
1,900.0	1,788.8	1,598.7	1,539.9	12.4	11.0	139.64	72.2	386.2	835.5	814.8	40.376		
2,000.0	1,873.1	1,669.4	1,605.3	12.8	11.2	140.41	81.4	411.5	905.7	884.3	42.313		
2,100.0	1,957.3	1,740.1	1,670.7	13.3	11.5	141.07	90.7	436.9	976.0	953.9	44.087		
2,200.0	2,041.5	1,810.9	1,736.0	14.0	11.8	141.64	99.9	462.2	1,046.3	1,023.4	45.712		
2,300.0	2,125.7	1,881.6	1,801.4	14.8	12.0	142.14	109.1	487.6	1,116.7	1,093.0	47.196		
2,400.0	2,209.9	1,952.3	1,866.8	15.7	12.3	142.58	118.3	513.0	1,187.1	1,162.6	48.554		
2,500.0	2,294.1	2,023.0	1,932.2	16.7	12.6	142.97	127.6	538.3	1,257.5	1,232.3	49.801		
2,600.0	2,378.4	2,093.8	1,997.6	17.7	12.9	143.32	136.8	563.7	1,328.0	1,301.9	50.947		
2,700.0	2,462.6	2,164.5	2,062.9	18.6	13.2	143.63	146.0	589.0	1,398.5	1,371.6	51.997		
2,800.0	2,546.8	2,235.2	2,128.3	19.6	13.5	143.92	155.3	614.4	1,469.0	1,441.3	52.965		
2,900.0	2,631.0	2,306.0	2,193.7	20.6	13.8	144.18	164.5	639.7	1,539.5	1,510.9	53.861		
3,000.0	2,715.2	2,376.7	2,259.1	21.6	14.1	144.41	173.7	665.1	1,610.1	1,580.6	54.684		
3,100.0	2,799.4	2,447.4	2,324.5	22.6	14.4	144.63	183.0	690.4	1,680.6	1,650.3	55.446		
3,200.0	2,883.6	2,518.2	2,389.9	23.7	14.7	144.83	192.2	715.8	1,751.2	1,720.0	56.154		
3,300.0	2,967.9	2,588.9	2,455.2	24.7	15.1	145.01	201.4	741.1	1,821.7	1,789.7	56.811		
3,400.0	3,052.1	2,659.6	2,520.6	25.7	15.4	145.18	210.7	766.5	1,892.3	1,859.4	57.418		
3,500.0	3,136.3	2,730.4	2,586.0	26.7	15.7	145.34	219.9	791.9	1,962.9	1,929.1	57.985		
3,600.0	3,220.5	2,801.1	2,651.4	27.7	16.1	145.49	229.1	817.2	2,033.5	1,998.8	58.517		
3,700.0	3,304.7	2,871.8	2,716.8	28.7	16.6	145.62	238.4	842.6	2,104.1	2,068.5	59.003		
3,800.0	3,388.9	2,942.6	2,782.1	29.7	17.1	145.75	247.6	867.9	2,174.7	2,138.2	59.483		
3,900.0	3,473.2	3,013.3	2,847.5	30.8	17.6	145.87	256.8	893.3	2,245.3	2,207.9	59.908		
4,000.0	3,557.4	3,084.0	2,912.9	31.8	18.1	145.99	266.1	918.6	2,316.0	2,277.6	60.314		
4,100.0	3,641.6	3,154.8	2,978.3	32.8	18.5	146.09	275.3	944.0	2,386.6	2,347.3	60.695		
4,200.0	3,725.8	3,225.5	3,043.7	33.8	19.0	146.19	284.5	969.3	2,457.2	2,417.0	61.052		
4,300.0	3,810.0	3,296.2	3,109.1	34.8	19.5	146.29	293.8	994.7	2,527.8	2,486.7	61.388		
4,400.0	3,894.2	3,366.9	3,174.4	35.9	20.0	146.38	303.0	1,020.1	2,598.5	2,556.4	61.706		
4,500.0	3,978.4	3,437.7	3,239.8	36.9	20.5	146.46	312.2	1,045.4	2,669.1	2,626.1	62.005		
4,600.0	4,062.7	3,508.4	3,305.2	37.9	21.0	146.54	321.5	1,070.8	2,739.7	2,695.8	62.288		
4,700.0	4,146.9	3,579.1	3,370.6	38.9	21.5	146.62	330.7	1,096.1	2,810.4	2,765.5	62.555		
4,800.0	4,231.1	3,649.9	3,436.0	40.0	22.0	146.69	339.9	1,121.5	2,881.0	2,835.2	62.808		
4,900.0	4,315.3	3,720.6	3,501.4	41.0	22.5	146.76	349.2	1,146.8	2,951.7	2,904.9	63.047		
5,000.0	4,399.5	3,791.3	3,566.7	42.0	23.0	146.83	358.4	1,172.2	3,022.3	2,974.6	63.274		

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 Laramie 0993-20-13E - Slot A-5
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-13E	<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>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
5,100.0	4,483.7	3,862.1	3,632.1	43.0	23.5	146.89	367.6	1,197.5	3,093.0	3,044.3	63.490		
5,200.0	4,567.9	3,932.8	3,697.5	44.1	24.0	146.95	376.8	1,222.9	3,163.6	3,114.0	63.695		
5,300.0	4,652.2	4,003.5	3,762.9	45.1	24.5	147.01	386.1	1,248.2	3,234.3	3,183.7	63.889		
5,400.0	4,736.4	4,074.3	3,828.3	46.1	25.0	147.06	395.3	1,273.6	3,304.9	3,253.4	64.074		
5,500.0	4,820.6	4,145.0	3,893.6	47.1	25.5	147.11	404.5	1,299.0	3,375.6	3,323.0	64.251		
5,600.0	4,905.5	4,216.5	3,959.8	48.1	26.0	148.17	413.9	1,324.6	3,445.4	3,391.9	64.399		
5,700.0	4,992.6	4,290.6	4,028.2	49.0	26.5	149.33	423.6	1,351.1	3,512.6	3,458.1	64.431		
5,800.0	5,081.8	4,367.0	4,098.9	49.9	27.0	150.32	433.5	1,378.6	3,577.0	3,521.4	64.383		
5,900.0	5,172.9	4,445.8	4,171.7	50.6	27.6	151.17	443.8	1,406.8	3,638.4	3,581.8	64.274		
6,000.0	5,265.6	4,526.6	4,246.4	51.3	28.1	151.88	454.4	1,435.7	3,696.8	3,639.1	64.110		
6,100.0	5,360.0	4,609.4	4,322.9	51.9	28.7	152.48	465.2	1,465.4	3,752.0	3,693.3	63.896		
6,200.0	5,455.6	4,694.0	4,401.1	52.4	29.3	152.97	476.2	1,495.8	3,804.0	3,744.2	63.638		
6,300.0	5,552.5	4,780.2	4,480.9	52.8	29.9	153.37	487.5	1,526.7	3,852.7	3,791.9	63.340		
6,400.0	5,650.3	4,868.0	4,561.9	53.2	30.5	153.67	498.9	1,558.1	3,898.0	3,836.1	63.009		
6,500.0	5,749.0	4,957.0	4,644.2	53.4	31.2	153.90	510.5	1,590.0	3,939.9	3,877.0	62.650		
6,600.0	5,848.2	5,047.2	4,727.6	53.6	31.8	154.05	522.3	1,622.4	3,978.2	3,914.3	62.270		
6,700.0	5,947.9	5,138.3	4,811.9	53.8	32.4	154.13	534.2	1,655.0	4,013.0	3,948.2	61.877		
6,800.0	6,047.9	5,230.3	4,896.8	53.8	33.1	154.15	546.2	1,688.0	4,044.3	3,978.5	61.494		
6,900.0	6,147.9	5,322.7	4,982.3	53.9	33.7	113.63	558.3	1,721.1	4,072.9	4,006.5	61.309		
7,000.0	6,247.9	5,415.1	5,067.7	53.9	34.4	113.28	570.3	1,754.2	4,101.6	4,034.5	61.137		
7,100.0	6,347.9	5,507.2	5,153.1	53.9	35.0	110.94	582.5	1,787.2	4,129.7	4,062.5	53.231		
7,200.0	6,447.9	5,600.2	5,240.6	53.9	35.6	110.94	594.7	1,820.2	4,157.7	4,090.5	53.063		
7,300.0	6,547.9	5,693.2	5,328.0	53.9	36.2	110.94	606.9	1,853.2	4,185.7	4,117.5	52.895		
7,400.0	6,647.9	5,786.2	5,415.4	53.9	36.8	110.94	619.1	1,886.2	4,213.7	4,144.5	52.727		
7,500.0	6,747.9	5,879.2	5,502.8	54.0	37.4	110.94	631.3	1,919.2	4,241.7	4,171.5	52.559		
7,600.0	6,847.9	5,972.2	5,590.2	54.0	38.0	110.94	643.5	1,952.2	4,269.7	4,198.5	52.391		
7,700.0	6,947.9	6,065.2	5,677.6	54.0	38.6	110.94	655.7	1,985.2	4,297.7	4,225.5	52.223		
7,800.0	7,047.9	6,158.2	5,765.0	54.0	39.2	110.94	667.9	2,018.2	4,325.7	4,252.5	52.055		
7,900.0	7,147.9	6,251.2	5,852.4	54.0	39.8	110.94	680.1	2,051.2	4,353.7	4,279.5	51.887		
8,000.0	7,247.9	6,344.2	5,939.8	54.1	40.4	110.94	692.3	2,084.2	4,381.7	4,306.5	51.719		
8,100.0	7,347.9	6,437.2	6,027.2	54.1	41.0	110.94	704.5	2,117.2	4,409.7	4,333.5	51.551		
8,200.0	7,447.9	6,530.2	6,114.6	54.1	41.6	110.94	716.7	2,150.2	4,437.7	4,360.5	51.383		
8,300.0	7,547.9	6,623.2	6,202.0	54.1	42.2	110.94	728.9	2,183.2	4,465.7	4,387.5	51.215		
8,400.0	7,647.9	6,716.2	6,289.4	54.1	42.8	110.94	741.1	2,216.2	4,493.7	4,414.5	51.047		
8,500.0	7,747.9	6,809.2	6,376.8	54.2	43.4	110.94	753.3	2,249.2	4,521.7	4,441.5	50.879		
8,600.0	7,847.9	6,902.2	6,464.2	54.2	44.0	110.94	765.5	2,282.2	4,549.7	4,468.5	50.711		
8,601.1	7,849.0	8,233.3	7,849.0	54.2	39.4	110.94	654.1	1,984.2	4,109.7	4,031.8	52.743		

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 Laramie 0993-20-13E - Slot A-5
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-13E	<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>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N/-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	133.24	-60.2	64.1	88.0				
100.0	100.0	100.0	100.0	0.4	0.4	133.24	-60.2	64.1	88.0	87.2	111.038		
200.0	200.0	200.0	200.0	1.2	1.2	133.24	-60.2	64.1	88.0	85.5	35.600	CC, ES	
300.0	300.0	297.8	297.8	1.6	2.2	-155.88	-59.8	66.1	89.2	85.7	25.867		
400.0	400.0	395.1	394.9	2.5	3.8	-159.51	-58.4	72.2	95.5	90.2	18.040		
500.0	499.7	490.8	490.0	4.0	4.9	-164.84	-56.2	82.0	109.1	101.4	14.124	SF	
600.0	599.1	584.1	582.3	4.6	5.8	-173.99	-53.2	95.4	130.9	121.6	14.170		
700.0	697.9	674.5	671.1	5.1	6.6	172.95	-49.5	111.8	160.3	149.8	15.186		
800.0	796.1	761.6	756.0	5.9	7.3	164.36	-45.2	130.9	196.8	184.8	16.368		
900.0	893.5	845.1	836.6	6.6	7.9	158.41	-40.4	152.0	239.5	226.2	18.028		
1,000.0	989.8	924.5	912.5	7.4	8.5	154.07	-35.2	174.9	288.1	273.7	20.029		
1,100.0	1,084.9	1,000.0	983.9	8.1	9.0	150.72	-29.8	198.9	341.9	326.6	22.276		
1,200.0	1,178.6	1,073.7	1,052.7	8.8	9.2	148.00	-24.0	224.5	400.7	384.7	25.006		
1,300.0	1,270.7	1,152.3	1,125.9	9.4	9.4	145.87	-17.8	252.3	462.5	445.7	27.611		
1,400.0	1,361.1	1,228.7	1,197.2	10.1	9.7	144.19	-11.6	279.4	526.7	509.2	30.145		
1,500.0	1,449.6	1,303.0	1,266.4	10.7	9.9	142.78	-5.7	305.6	593.3	575.1	32.611		
1,600.0	1,536.0	1,374.8	1,333.3	11.3	10.1	141.54	0.0	331.1	662.3	643.4	35.012		
1,700.0	1,620.4	1,444.5	1,398.3	11.6	10.4	141.65	5.6	355.7	733.2	713.7	37.570		
1,800.0	1,704.6	1,513.9	1,463.0	12.0	10.6	142.69	11.1	380.3	804.5	784.4	39.966		
1,900.0	1,788.8	1,583.4	1,527.7	12.4	10.9	143.56	16.7	404.9	875.9	855.1	42.165		
2,000.0	1,873.1	1,652.8	1,592.3	12.8	11.1	144.30	22.2	429.5	947.4	925.9	44.188		
2,100.0	1,957.3	1,722.2	1,657.0	13.3	11.4	144.94	27.8	454.1	1,018.9	996.8	46.052		
2,200.0	2,041.5	1,791.7	1,721.7	14.0	11.6	145.49	33.3	478.6	1,090.5	1,067.7	47.767		
2,300.0	2,125.7	1,861.1	1,786.4	14.8	11.9	145.98	38.9	503.2	1,162.2	1,138.6	49.343		
2,400.0	2,209.9	1,930.5	1,851.1	15.7	12.2	146.41	44.4	527.8	1,233.9	1,209.6	50.797		
2,500.0	2,294.1	2,000.0	1,915.8	16.7	12.5	146.80	50.0	552.4	1,305.6	1,280.6	52.139		
2,600.0	2,378.4	2,069.4	1,980.5	17.7	12.8	147.14	55.5	577.0	1,377.4	1,351.6	53.374		
2,700.0	2,462.6	2,138.8	2,045.2	18.6	13.1	147.45	61.1	601.5	1,449.1	1,422.5	54.516		
2,800.0	2,546.8	2,208.2	2,109.9	19.6	13.3	147.74	66.6	626.1	1,520.9	1,493.6	55.575		
2,900.0	2,631.0	2,277.7	2,174.6	20.6	13.6	147.99	72.2	650.7	1,592.7	1,564.6	56.554		
3,000.0	2,715.2	2,347.1	2,239.3	21.6	13.9	148.23	77.7	675.3	1,664.5	1,635.6	57.462		
3,100.0	2,799.4	2,416.5	2,304.0	22.6	14.3	148.44	83.3	699.9	1,736.4	1,706.6	58.307		
3,200.0	2,883.6	2,486.0	2,368.7	23.7	14.6	148.64	88.8	724.4	1,808.2	1,777.6	59.092		
3,300.0	2,967.9	2,555.4	2,433.4	24.7	14.9	148.82	94.4	749.0	1,880.1	1,848.6	59.823		
3,400.0	3,052.1	2,624.8	2,498.1	25.7	15.2	148.99	99.9	773.6	1,951.9	1,919.7	60.506		
3,500.0	3,136.3	2,694.3	2,562.8	26.7	15.5	149.15	105.5	798.2	2,023.8	1,990.7	61.144		
3,600.0	3,220.5	2,763.7	2,627.5	27.7	15.8	149.30	111.0	822.8	2,095.7	2,061.7	61.739		
3,700.0	3,304.7	2,833.1	2,692.2	28.7	16.2	149.43	116.6	847.3	2,167.6	2,132.8	62.297		
3,800.0	3,388.9	2,902.5	2,756.9	29.7	16.6	149.56	122.1	871.9	2,239.4	2,203.8	62.822		
3,900.0	3,473.2	2,972.0	2,821.6	30.8	17.0	149.68	127.7	896.5	2,311.3	2,274.8	63.312		
4,000.0	3,557.4	3,041.4	2,886.3	31.8	17.4	149.80	133.2	921.1	2,383.2	2,345.9	63.773		
4,100.0	3,641.6	3,110.8	2,951.0	32.8	17.9	149.90	138.8	945.7	2,455.1	2,416.9	64.204		
4,200.0	3,725.8	3,180.3	3,015.7	33.8	18.3	150.00	144.3	970.2	2,527.0	2,487.9	64.616		
4,300.0	3,810.0	3,249.7	3,080.3	34.8	18.8	150.10	149.9	994.8	2,598.9	2,559.0	65.012		
4,400.0	3,894.2	3,319.1	3,145.0	35.9	19.2	150.19	155.4	1,019.4	2,670.9	2,630.0	65.372		
4,500.0	3,978.4	3,388.6	3,209.7	36.9	19.7	150.27	161.0	1,044.0	2,742.8	2,701.0	65.717		
4,600.0	4,062.7	3,458.0	3,274.4	37.9	20.2	150.35	166.5	1,068.6	2,814.7	2,772.1	66.043		
4,700.0	4,146.9	3,527.4	3,339.1	38.9	20.6	150.43	172.1	1,093.2	2,886.6	2,843.1	66.352		
4,800.0	4,231.1	3,596.8	3,403.8	40.0	21.1	150.50	177.6	1,117.7	2,958.5	2,914.1	66.645		
4,900.0	4,315.3	3,666.3	3,468.5	41.0	21.5	150.57	183.2	1,142.3	3,030.5	2,985.2	66.923		
5,000.0	4,399.5	3,735.7	3,533.2	42.0	22.0	150.64	188.7	1,166.9	3,102.4	3,056.2	67.187		
5,100.0	4,483.7	3,805.1	3,597.9	43.0	22.5	150.70	194.3	1,191.5	3,174.3	3,127.2	67.438		

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



# Anticollision Report



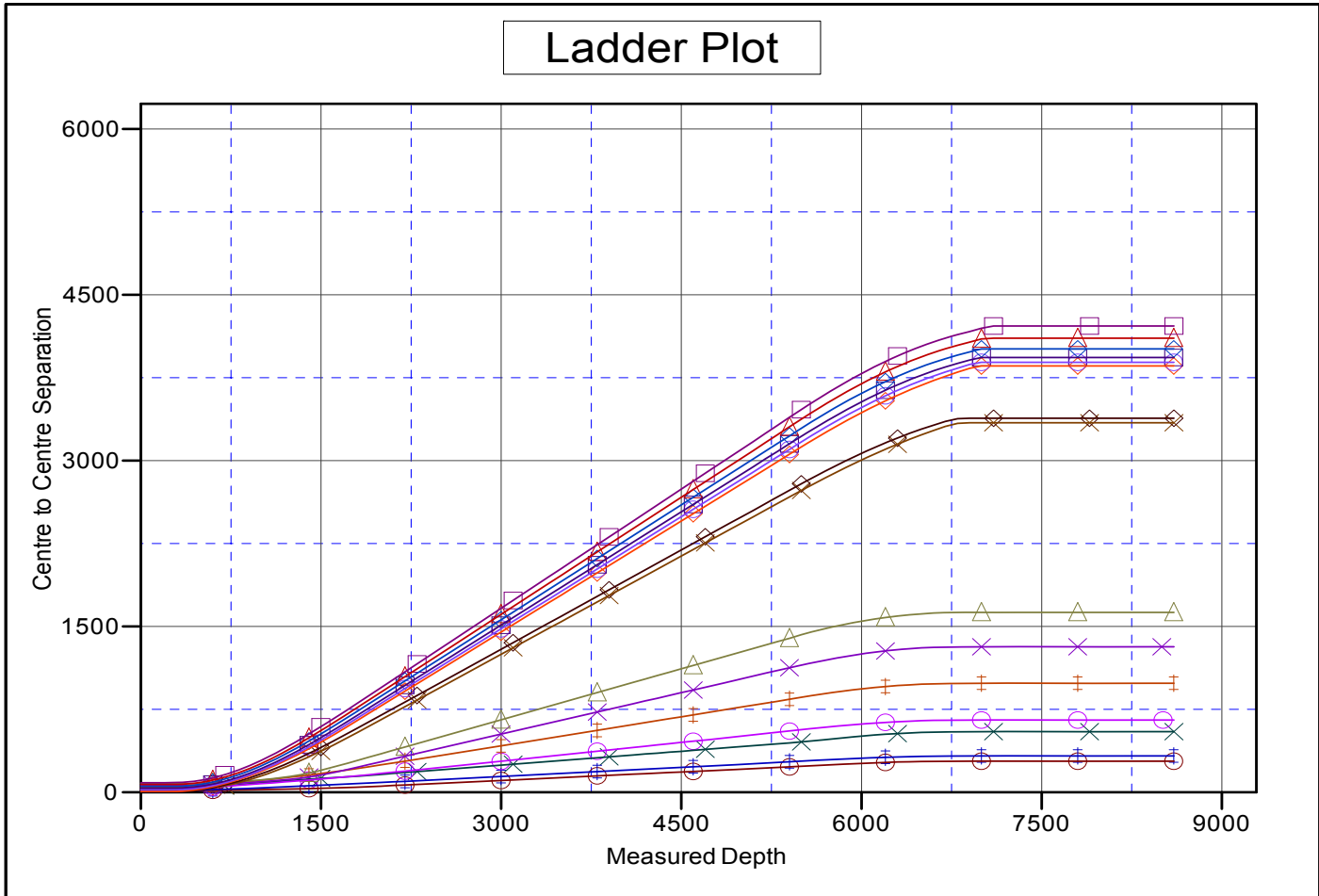
<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Laramie 0993-20-13E - Slot A-5
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-13E	<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>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
5,200.0	4,567.9	3,874.6	3,662.6	44.1	22.9	150.76	199.8	1,216.1	3,246.2	3,198.3	67.677		
5,300.0	4,652.2	3,944.0	3,727.3	45.1	23.4	150.82	205.4	1,240.6	3,318.2	3,269.3	67.904		
5,400.0	4,736.4	4,013.4	3,792.0	46.1	23.9	150.88	210.9	1,265.2	3,390.1	3,340.3	68.120		
5,500.0	4,820.6	4,082.8	3,856.7	47.1	24.3	150.93	216.5	1,289.8	3,462.0	3,411.4	68.327		
5,600.0	4,905.5	4,153.1	3,922.2	48.1	24.8	151.92	222.1	1,314.7	3,533.1	3,481.6	68.501		
5,700.0	4,992.6	4,226.1	3,990.2	49.0	25.3	152.99	227.9	1,340.5	3,601.5	3,549.0	68.539		
5,800.0	5,081.8	4,301.6	4,060.5	49.9	25.8	153.91	234.0	1,367.2	3,667.0	3,613.5	68.485		
5,900.0	5,172.9	4,379.5	4,133.1	50.6	26.3	154.69	240.2	1,394.8	3,729.5	3,675.0	68.361		
6,000.0	5,265.6	4,459.7	4,207.9	51.3	26.9	155.35	246.6	1,423.2	3,788.9	3,733.4	68.173		
6,100.0	5,360.0	4,542.0	4,284.6	51.9	27.4	155.90	253.2	1,452.3	3,845.1	3,788.5	67.928		
6,200.0	5,455.6	4,626.3	4,363.1	52.4	28.0	156.35	259.9	1,482.2	3,897.9	3,840.3	67.632		
6,300.0	5,552.5	4,712.4	4,443.3	52.8	28.5	156.72	266.8	1,512.7	3,947.4	3,888.7	67.290		
6,400.0	5,650.3	4,800.1	4,525.0	53.2	29.1	157.00	273.8	1,543.7	3,993.4	3,933.7	66.910		
6,500.0	5,749.0	4,889.3	4,608.1	53.4	29.7	157.22	280.9	1,575.3	4,035.8	3,975.1	66.498		
6,600.0	5,848.2	4,979.7	4,692.4	53.6	30.3	157.36	288.2	1,607.3	4,074.6	4,012.9	66.061		
6,700.0	5,947.9	5,071.3	4,777.8	53.8	31.0	157.44	295.5	1,639.7	4,109.8	4,047.1	65.611		
6,800.0	6,047.9	5,163.9	4,864.0	53.8	31.6	157.46	302.9	1,672.5	4,141.2	4,077.7	65.171		
6,900.0	6,147.9	5,257.1	4,950.9	53.9	32.2	116.98	310.3	1,705.5	4,170.0	4,105.8	64.967		
7,000.0	6,247.9	5,350.3	5,037.7	53.9	32.8	116.67	317.8	1,738.5	4,198.8	4,133.9	64.778		
7,100.0	6,347.9	5,443.5	5,124.5	53.9	33.4	116.50	325.3	1,771.5	4,227.6	4,162.0	64.589		
7,200.0	6,447.9	5,536.7	5,211.3	53.9	34.0	116.50	332.8	1,804.5	4,256.4	4,190.0	64.400		
7,300.0	6,547.9	5,629.9	5,298.1	53.9	34.6	116.50	340.3	1,837.5	4,285.2	4,218.0	64.211		
7,400.0	6,647.9	5,723.1	5,384.9	53.9	35.2	116.50	347.8	1,870.5	4,314.0	4,246.0	64.022		
7,500.0	6,747.9	5,816.3	5,471.7	54.0	35.8	116.50	355.3	1,903.5	4,342.8	4,274.0	63.833		
7,600.0	6,847.9	5,909.5	5,558.5	54.0	36.4	116.50	362.8	1,936.5	4,371.6	4,302.0	63.644		
7,700.0	6,947.9	6,002.7	5,645.3	54.0	37.0	116.50	370.3	1,969.5	4,400.4	4,330.0	63.455		
7,800.0	7,047.9	6,095.9	5,732.1	54.0	37.6	116.50	377.8	1,984.2	4,428.8	4,358.0	63.266		
7,900.0	7,147.9	6,189.1	5,818.9	54.0	38.2	116.50	385.3	1,984.2	4,457.2	4,386.0	63.077		
8,000.0	7,247.9	6,282.3	5,905.7	54.1	38.8	116.50	392.8	1,984.2	4,485.6	4,414.0	62.888		
8,100.0	7,347.9	6,375.5	5,992.5	54.1	39.4	116.50	400.3	1,984.2	4,514.0	4,442.0	62.699		
8,200.0	7,447.9	6,468.7	6,079.3	54.1	40.0	116.50	407.8	1,984.2	4,542.4	4,470.0	62.510		
8,300.0	7,547.9	6,561.9	6,166.1	54.1	40.6	116.50	415.3	1,984.2	4,570.8	4,498.0	62.321		
8,400.0	7,647.9	6,655.1	6,252.9	54.1	41.2	116.50	422.8	1,984.2	4,599.2	4,526.0	62.132		
8,500.0	7,747.9	6,748.3	6,339.7	54.2	41.8	116.50	430.3	1,984.2	4,627.6	4,554.0	61.943		
8,600.0	7,847.9	6,841.5	6,426.5	54.2	42.4	116.50	437.8	1,984.2	4,656.0	4,582.0	61.754		
8,601.1	7,849.0	6,843.0	6,428.0	54.2	42.4	116.50	437.8	1,984.2	4,656.0	4,582.0	61.754		



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Laramie 0993-20-13E - Slot A-5
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-13E	<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>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to RKB=30' @ 7493.0usft (TBD)      Coordinates are relative to: Laramie 0993-20-13E - Slot A-5  
 Offset Depths are relative to Offset Datum      Coordinate System is US State Plane 1983, Colorado Central Zone  
 Central Meridian is -105.500000      Grid Convergence at Surface is: -1.44°



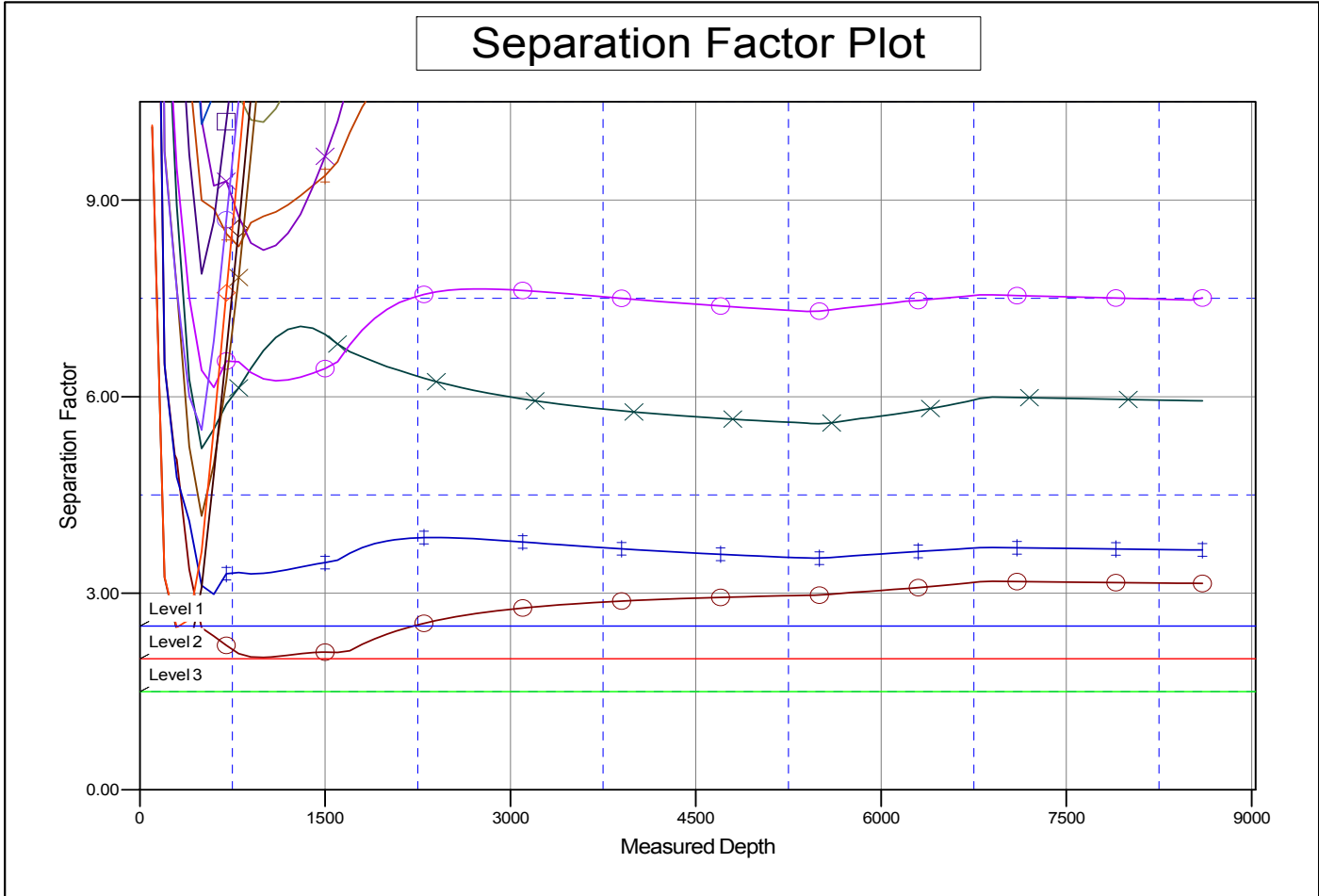
LEGEND

- |                                     |   |                                 |
|-------------------------------------|---|---------------------------------|
| 29-01 0993-20-11E, OH, Design #1 V0 | ✖ Laramie 0993-20-17E, OH, Design #1 V0     | ⊖ Laramie Fed 0993-21-14W, CH,  |
| 29-01 0993-20-12E, OH, Design #1 V0 | ▲ Laramie 0993-20-18E, OH, Design #1 V0     | ⊞ Laramie Fed 0993-21-15W, CH,  |
| 29-01 0993-20-14E, OH, Design #1 V0 | ✕ Laramie Fed 0993-21-11W, OH, Design #1 V0 | ⊠ Laramie 2Fed 0993-21-16W, CH, |
| 29-01 0993-20-15E, OH, Design #1 V0 | ◆ Laramie Fed 0993-21-12W, OH, Design #1 V0 | ▲ Laramie Fed 0993-21-17W, CH,  |
| 29-01 0993-20-16E, OH, Design #1 V0 | ◇ Laramie Fed 0993-21-13W, OH, Design #1 V0 | ⊞ Laramie Fed 0993-21-18W, OH,  |



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Laramie 0993-20-13E - Slot A-5
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-13E	<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>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to RKB=30' @ 7493.0usft (TBD)      Coordinates are relative to: Laramie 0993-20-13E - Slot A-5  
 Offset Depths are relative to Offset Datum      Coordinate System is US State Plane 1983, Colorado Central Zone  
 Central Meridian is -105.500000      Grid Convergence at Surface is: -1.44°



LEGEND

- |                                     |   |                                |
|-------------------------------------|---|--------------------------------|
| 29-01 0993-20-11E, OH, Design #1 V0 | ✖ Laramie 0993-20-17E, OH, Design #1 V0     | ⊖ Laramie Fed 0993-21-14W, CH, |
| 29-01 0993-20-12E, OH, Design #1 V0 | ▲ Laramie 0993-20-18E, OH, Design #1 V0     | ⊞ Laramie Fed 0993-21-15W, CH, |
| 29-01 0993-20-14E, OH, Design #1 V0 | ✙ Laramie Fed 0993-21-11W, OH, Design #1 V0 | ⬠ Laramie Fed 0993-21-16W, CH, |
| 29-01 0993-20-15E, OH, Design #1 V0 | ◆ Laramie Fed 0993-21-12W, OH, Design #1 V0 | ▲ Laramie Fed 0993-21-17W, CH, |
| 29-01 0993-20-16E, OH, Design #1 V0 | ◇ Laramie Fed 0993-21-13W, OH, Design #1 V0 | ⊞ Laramie Fed 0993-21-18W, OH, |