



# **Laramie Energy, LLC**

**Mesa County, CO**

**Laramie 0993-29-01**

**Laramie 29-01 Fed 0993-21-15W**

**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 29-01 Fed 0993-21-15W - Slot A-10
<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 29-01 Fed 0993-21-15W	<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	9,222.4	Design #1 (OH)	OWSG (REV5) MWD HD(OWSG MWD - Standard	

Summary						
Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Laramie 0993-29-01						
Laramie 29-01 0993-20-11E - OH - Design #1	200.0	200.0	72.3	69.8	29.266	CC, ES
Laramie 29-01 0993-20-11E - OH - Design #1	600.0	585.6	106.0	98.4	13.925	SF
Laramie 29-01 0993-20-12E - OH - Design #1	200.0	200.0	56.2	53.7	22.728	CC
Laramie 29-01 0993-20-12E - OH - Design #1	300.0	299.4	56.5	53.4	18.656	ES
Laramie 29-01 0993-20-12E - OH - Design #1	500.0	493.1	71.6	65.4	11.513	SF
Laramie 29-01 0993-20-13E - OH - Design #1	200.0	200.0	40.1	37.7	16.243	CC
Laramie 29-01 0993-20-13E - OH - Design #1	300.0	299.8	40.3	37.2	12.914	ES
Laramie 29-01 0993-20-13E - OH - Design #1	500.0	494.8	55.0	48.1	7.917	SF
Laramie 29-01 0993-20-14E - OH - Design #1	200.0	200.0	24.0	21.6	9.723	CC
Laramie 29-01 0993-20-14E - OH - Design #1	300.0	300.0	24.2	21.0	7.541	ES
Laramie 29-01 0993-20-14E - OH - Design #1	500.0	497.3	35.6	29.2	5.527	SF
Laramie 29-01 0993-20-15E - OH - Design #1	200.0	200.0	8.1	5.6	3.269	CC
Laramie 29-01 0993-20-15E - OH - Design #1	300.0	300.0	8.3	5.1	2.581	ES
Laramie 29-01 0993-20-15E - OH - Design #1	400.0	399.9	10.8	6.2	2.350	Level 1, SF
Laramie 29-01 0993-20-16E - OH - Design #1	326.6	326.6	7.7	4.2	2.221	Level 1, CC, ES
Laramie 29-01 0993-20-16E - OH - Design #1	400.0	399.9	8.6	4.3	2.012	Level 1, SF
Laramie 29-01 0993-20-17E - OH - Design #1	422.4	422.6	22.6	18.5	5.511	CC, ES
Laramie 29-01 0993-20-17E - OH - Design #1	500.0	499.3	25.3	19.7	4.580	SF
Laramie 29-01 0993-20-18E - OH - Design #1	436.4	437.0	36.6	32.4	8.771	CC, ES
Laramie 29-01 0993-20-18E - OH - Design #1	600.0	595.3	52.6	44.2	6.279	SF
Laramie 29-01 Fed 0993-21-11W - OH - Design #1	200.0	200.0	64.2	61.8	25.997	CC
Laramie 29-01 Fed 0993-21-11W - OH - Design #1	300.0	299.5	64.7	61.7	21.533	ES
Laramie 29-01 Fed 0993-21-11W - OH - Design #1	800.0	794.1	96.0	88.8	13.314	SF
Laramie 29-01 Fed 0993-21-12W - OH - Design #1	200.0	200.0	48.1	45.7	19.486	CC
Laramie 29-01 Fed 0993-21-12W - OH - Design #1	300.0	299.6	48.7	45.4	15.008	ES
Laramie 29-01 Fed 0993-21-12W - OH - Design #1	700.0	696.8	67.2	60.6	10.290	SF
Laramie 29-01 Fed 0993-21-13W - OH - Design #1	200.0	200.0	32.1	29.6	12.992	CC
Laramie 29-01 Fed 0993-21-13W - OH - Design #1	300.0	300.0	32.2	29.0	10.091	ES
Laramie 29-01 Fed 0993-21-13W - OH - Design #1	1,600.0	1,591.2	107.3	90.0	6.208	SF
Laramie 29-01 Fed 0993-21-14W - OH - Design #1	200.0	200.0	16.2	13.7	6.538	CC
Laramie 29-01 Fed 0993-21-14W - OH - Design #1	400.0	400.1	16.6	12.7	4.307	ES
Laramie 29-01 Fed 0993-21-14W - OH - Design #1	1,600.0	1,598.2	54.3	37.5	3.218	SF
Laramie 29-01 Fed 0993-21-16W - OH - Design #1	200.0	200.0	15.9	13.5	6.451	CC
Laramie 29-01 Fed 0993-21-16W - OH - Design #1	400.0	399.6	16.9	12.8	4.089	ES
Laramie 29-01 Fed 0993-21-16W - OH - Design #1	700.0	698.5	22.0	15.0	3.134	SF
Laramie 29-01 Fed 0993-21-17W - OH - Design #1	200.0	200.0	31.9	29.4	12.905	CC

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



Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Laramie 29-01 Fed 0993-21-15W - Slot A-10
<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 29-01 Fed 0993-21-15W	<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

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
<b>Offet Well - Wellbore - Design</b>						
Laramie 0993-29-01						
Laramie 29-01 Fed 0993-21-17W - OH - Design #1	300.0	299.5	32.3	29.2	10.681	ES
Laramie 29-01 Fed 0993-21-17W - OH - Design #1	700.0	696.5	43.7	36.8	6.307	SF
Laramie 29-01 Fed 0993-21-18W - OH - Design #1	200.0	200.0	47.8	45.4	19.357	CC, ES
Laramie 29-01 Fed 0993-21-18W - OH - Design #1	700.0	692.7	67.7	60.0	8.844	SF

Offset Design											Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard											Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-46.76	49.5	-52.7	72.3			
100.0	100.0	100.0	100.0	0.4	0.4	-46.76	49.5	-52.7	72.3	71.5	91.282	
200.0	200.0	200.0	200.0	1.2	1.2	-46.76	49.5	-52.7	72.3	69.8	29.266	CC, ES
300.0	300.0	297.7	297.6	1.6	2.4	-102.22	51.6	-52.9	74.1	70.5	20.673	
400.0	399.9	395.0	394.8	3.0	3.9	-102.42	57.8	-53.4	79.9	74.7	15.486	
500.0	499.4	491.0	490.2	4.4	4.9	-103.96	67.5	-55.3	90.3	83.8	13.997	
600.0	598.5	585.6	583.9	5.4	5.7	-106.80	80.1	-59.6	106.0	98.4	13.925	SF
700.0	696.9	678.4	675.2	6.3	6.4	-110.01	95.4	-66.2	127.3	118.6	14.570	
800.0	794.4	769.0	763.6	7.2	7.1	-113.01	113.0	-75.0	154.4	144.5	15.692	
900.0	890.9	856.9	848.6	7.9	7.7	-115.53	132.6	-85.6	187.1	176.2	17.160	
1,000.0	986.1	941.7	929.8	8.6	8.3	-117.51	154.0	-97.8	225.3	213.4	18.887	
1,100.0	1,080.0	1,023.3	1,007.0	9.3	8.8	-118.98	176.7	-111.4	268.9	256.0	20.804	
1,200.0	1,172.2	1,100.0	1,078.6	9.9	9.3	-119.96	199.9	-125.7	317.4	303.6	22.901	
1,300.0	1,262.6	1,175.8	1,148.6	10.5	9.8	-120.80	224.6	-141.4	370.7	355.9	25.081	
1,400.0	1,352.4	1,247.4	1,213.6	10.7	10.3	-122.28	249.6	-157.6	427.2	411.6	27.424	
1,500.0	1,442.1	1,316.7	1,275.8	11.1	10.7	-123.24	275.3	-174.6	485.9	469.5	29.680	
1,600.0	1,531.8	1,383.7	1,334.9	11.4	11.1	-123.84	301.4	-192.1	546.7	529.5	31.860	
1,700.0	1,621.5	1,448.4	1,391.1	11.8	11.4	-124.19	327.9	-210.1	609.3	591.3	33.964	
1,800.0	1,711.3	1,510.8	1,444.5	12.1	11.8	-124.36	354.6	-228.4	673.6	654.9	36.008	
1,900.0	1,801.0	1,571.0	1,495.1	12.5	12.1	-124.40	381.4	-247.0	739.6	720.1	37.988	
2,000.0	1,890.7	1,629.0	1,543.1	12.9	12.4	-124.34	408.1	-265.7	807.2	786.9	39.934	
2,100.0	1,980.5	1,695.0	1,596.6	13.3	12.8	-124.20	439.6	-287.9	876.2	855.1	41.480	
2,200.0	2,070.2	1,753.2	1,643.3	13.7	13.0	-124.04	467.9	-308.0	946.1	924.3	43.387	
2,300.0	2,159.9	1,824.6	1,700.6	14.1	13.2	-123.87	502.6	-332.7	1,016.1	993.3	44.687	
2,400.0	2,249.6	1,896.0	1,758.0	14.6	13.5	-123.73	537.4	-357.3	1,086.0	1,062.3	45.829	
2,500.0	2,339.4	1,967.4	1,815.3	15.1	13.8	-123.60	572.1	-381.9	1,156.0	1,131.3	46.853	
2,600.0	2,429.1	2,038.9	1,872.6	15.8	14.2	-123.48	606.9	-406.6	1,226.0	1,200.3	47.757	
2,700.0	2,518.8	2,110.3	1,930.0	16.6	14.6	-123.38	641.6	-431.2	1,295.9	1,269.3	48.570	
2,800.0	2,608.5	2,181.7	1,987.3	17.4	15.2	-123.29	676.3	-455.8	1,365.9	1,338.2	49.301	
2,900.0	2,698.3	2,253.1	2,044.6	18.2	15.9	-123.21	711.1	-480.4	1,435.9	1,407.2	49.961	
3,000.0	2,788.0	2,324.5	2,102.0	19.0	16.6	-123.14	745.8	-505.1	1,505.9	1,476.1	50.561	
3,100.0	2,877.7	2,396.0	2,159.3	19.8	17.3	-123.07	780.6	-529.7	1,575.9	1,545.0	51.104	
3,200.0	2,967.5	2,467.4	2,216.6	20.6	18.1	-123.01	815.3	-554.3	1,645.9	1,614.0	51.594	
3,300.0	3,057.2	2,538.8	2,274.0	21.4	18.9	-122.95	850.0	-579.0	1,715.8	1,682.9	52.042	
3,400.0	3,146.9	2,610.2	2,331.3	22.2	19.6	-122.90	884.8	-603.6	1,785.8	1,751.8	52.452	
3,500.0	3,236.6	2,681.6	2,388.6	23.0	20.4	-122.85	919.5	-628.2	1,855.8	1,820.7	52.825	
3,600.0	3,326.4	2,753.0	2,446.0	23.8	21.2	-122.80	954.2	-652.9	1,925.8	1,889.6	53.168	
3,700.0	3,416.1	2,824.5	2,503.3	24.6	22.0	-122.76	989.0	-677.5	1,995.8	1,958.5	53.484	

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 29-01 Fed 0993-21-15W - Slot A-10
<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 29-01 Fed 0993-21-15W	<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
Laramie 0993-29-01 - Laramie 29-01 0993-20-11E - OH - Design #1												
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
3,800.0	3,505.8	2,895.9	2,560.6	25.4	22.8	-122.72	1,023.7	-702.1	2,065.8	2,027.4	53.775	
3,900.0	3,595.6	2,967.3	2,618.0	26.2	23.6	-122.69	1,058.5	-726.8	2,135.8	2,096.3	54.042	
4,000.0	3,685.3	3,038.7	2,675.3	27.0	24.4	-122.65	1,093.2	-751.4	2,205.8	2,165.1	54.290	
4,100.0	3,775.0	3,110.1	2,732.6	27.8	25.2	-122.62	1,127.9	-776.0	2,275.7	2,234.0	54.521	
4,200.0	3,864.7	3,181.6	2,790.0	28.6	26.0	-122.59	1,162.7	-800.7	2,345.7	2,302.9	54.734	
4,300.0	3,954.5	3,253.0	2,847.3	29.4	26.8	-122.56	1,197.4	-825.3	2,415.7	2,371.8	54.932	
4,400.0	4,044.2	3,324.4	2,904.6	30.3	27.6	-122.53	1,232.2	-849.9	2,485.7	2,440.6	55.117	
4,500.0	4,133.9	3,395.8	2,962.0	31.1	28.4	-122.51	1,266.9	-874.6	2,555.7	2,509.5	55.289	
4,600.0	4,223.7	3,467.2	3,019.3	31.9	29.2	-122.48	1,301.6	-899.2	2,625.7	2,578.4	55.450	
4,700.0	4,313.4	3,538.7	3,076.6	32.7	30.0	-122.46	1,336.4	-923.8	2,695.7	2,647.2	55.600	
4,800.0	4,403.1	3,610.1	3,134.0	33.5	30.8	-122.44	1,371.1	-948.5	2,765.7	2,716.1	55.742	
4,900.0	4,492.8	3,681.5	3,191.3	34.3	31.6	-122.42	1,405.9	-973.1	2,835.7	2,784.9	55.874	
5,000.0	4,582.6	3,752.9	3,248.6	35.1	32.4	-122.40	1,440.6	-997.7	2,905.7	2,853.8	55.998	
5,100.0	4,672.3	3,824.3	3,306.0	35.9	33.2	-122.38	1,475.3	-1,022.4	2,975.7	2,922.6	56.114	
5,200.0	4,762.0	3,895.7	3,363.3	36.7	34.1	-122.36	1,510.1	-1,047.0	3,045.7	2,991.5	56.224	
5,300.0	4,851.8	3,967.2	3,420.6	37.5	34.9	-122.35	1,544.8	-1,071.6	3,115.6	3,060.3	56.327	
5,400.0	4,941.5	4,038.6	3,478.0	38.3	35.7	-122.33	1,579.6	-1,096.3	3,185.6	3,129.2	56.425	
5,500.0	5,031.2	4,110.0	3,535.3	39.1	36.5	-122.31	1,614.3	-1,120.9	3,255.6	3,198.0	56.517	
5,600.0	5,121.0	4,181.4	3,592.6	39.9	37.3	-122.66	1,649.0	-1,145.5	3,325.6	3,266.9	56.608	
5,700.0	5,212.0	4,253.9	3,650.8	40.7	38.1	-124.56	1,684.3	-1,170.5	3,394.4	3,334.6	56.685	
5,800.0	5,304.7	4,327.8	3,710.1	41.3	39.0	-126.25	1,720.2	-1,196.0	3,461.5	3,400.5	56.741	
5,900.0	5,398.9	4,403.0	3,770.5	41.9	39.8	-127.75	1,756.8	-1,222.0	3,526.6	3,464.5	56.792	
6,000.0	5,494.5	4,479.4	3,831.8	42.5	40.7	-129.06	1,794.0	-1,248.3	3,589.7	3,526.5	56.841	
6,100.0	5,591.3	4,556.7	3,893.9	42.9	41.6	-130.21	1,831.6	-1,275.0	3,650.7	3,586.5	56.889	
6,200.0	5,689.1	4,635.0	3,956.7	43.3	42.4	-131.21	1,869.6	-1,301.9	3,709.6	3,644.4	56.939	
6,300.0	5,787.7	4,713.9	4,020.1	43.5	43.3	-132.08	1,908.0	-1,329.2	3,766.2	3,700.1	56.992	
6,400.0	5,887.0	4,793.4	4,083.9	43.8	44.3	-132.81	1,946.7	-1,356.6	3,820.6	3,753.6	57.052	
6,500.0	5,986.7	4,873.3	4,148.0	43.9	45.2	-133.44	1,985.6	-1,384.2	3,872.7	3,804.9	57.123	
6,600.0	6,086.6	4,953.5	4,212.4	44.0	46.1	-133.96	2,024.6	-1,411.8	3,922.4	3,853.9	57.213	
6,700.0	6,186.6	5,033.8	4,276.8	44.0	47.0	-77.73	2,063.6	-1,439.5	3,970.5	3,901.3	57.402	
6,800.0	6,286.6	5,114.0	4,341.3	44.0	47.9	-77.20	2,102.7	-1,467.2	4,018.7	3,949.0	57.594	
6,900.0	6,386.6	5,194.3	4,405.7	44.0	48.8	-76.69	2,141.7	-1,494.9	4,067.3	3,996.9	57.787	
7,000.0	6,486.6	5,274.3	4,470.1	44.1	49.7	-76.16	2,180.7	-1,522.6	4,115.3	4,044.8	57.980	
7,100.0	6,586.6	5,354.3	4,534.5	44.1	50.6	-75.63	2,219.7	-1,550.3	4,163.3	4,092.7	58.173	
7,200.0	6,686.6	5,434.3	4,598.9	44.1	51.5	-75.10	2,258.7	-1,578.0	4,211.3	4,140.6	58.366	
7,300.0	6,786.6	5,514.3	4,663.3	44.1	52.4	-74.57	2,297.7	-1,605.7	4,259.3	4,188.5	58.559	
7,400.0	6,886.6	5,594.3	4,727.7	44.2	53.3	-74.04	2,336.7	-1,633.4	4,307.3	4,236.4	58.752	
7,500.0	6,986.6	5,674.3	4,792.1	44.2	54.2	-73.51	2,375.7	-1,661.1	4,355.3	4,284.3	58.945	
7,600.0	7,086.6	5,754.3	4,856.5	44.2	55.1	-72.98	2,414.7	-1,688.8	4,403.3	4,332.2	59.138	
7,700.0	7,186.6	5,834.3	4,920.9	44.2	56.0	-72.45	2,453.7	-1,716.5	4,451.3	4,380.1	59.331	
7,800.0	7,286.6	5,914.3	4,985.3	44.3	56.9	-71.92	2,492.7	-1,744.2	4,499.3	4,428.0	59.524	
7,900.0	7,386.6	5,994.3	5,049.7	44.3	57.8	-71.39	2,531.7	-1,771.9	4,547.3	4,475.9	59.717	
8,000.0	7,486.6	6,074.3	5,114.1	44.3	58.7	-70.86	2,570.7	-1,799.6	4,595.3	4,523.8	59.910	
8,100.0	7,586.6	6,154.3	5,178.5	44.3	59.6	-70.33	2,609.7	-1,827.3	4,643.3	4,571.7	60.103	
8,200.0	7,686.6	6,234.3	5,242.9	44.4	60.5	-69.80	2,648.7	-1,855.0	4,691.3	4,619.6	60.296	
8,300.0	7,786.6	6,314.3	5,307.3	44.4	61.4	-69.27	2,687.7	-1,882.7	4,739.3	4,667.5	60.489	
8,400.0	7,886.6	6,394.3	5,371.7	44.4	62.3	-68.74	2,726.7	-1,910.4	4,787.3	4,715.4	60.682	
8,500.0	7,986.6	6,474.3	5,436.1	44.4	63.2	-68.21	2,765.7	-1,938.1	4,835.3	4,763.3	60.875	
8,600.0	8,086.6	6,554.3	5,500.5	44.5	64.1	-67.68	2,804.7	-1,965.8	4,883.3	4,811.2	61.068	
8,700.0	8,186.6	6,634.3	5,564.9	44.5	65.0	-67.15	2,843.7	-1,993.5	4,931.3	4,859.1	61.261	

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 29-01 Fed 0993-21-15W - Slot A-10
<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 29-01 Fed 0993-21-15W	<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	
Laramie 0993-29-01 - Laramie 29-01 0993-20-11E - OH - Design #1												Offset Well Error:	0.0 usft	
Survey Program: 0-OWSG (REV5) MWD HDGM Standard														
Reference	Offset			Semi Major Axis		Highside	Offset Wellbore Centre		Distance		Separation	Warning		
Measured	Vertical	Measured	Vertical	Reference	Offset		+N/-S	+E/-W	Between	Between			Factor	
Depth	Depth	Depth	Depth	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses				
(usft)	(usft)	(usft)	(usft)						(usft)	(usft)				
8,800.0	8,286.6	8,821.7	7,859.0	44.5	61.6	-70.35	2,699.3	-1,890.2	4,112.8	4,024.1	46.398			
8,900.0	8,386.6	8,821.7	7,859.0	44.5	61.6	-70.35	2,699.3	-1,890.2	4,124.3	4,035.7	46.541			
9,000.0	8,486.6	8,821.7	7,859.0	44.6	61.6	-70.35	2,699.3	-1,890.2	4,138.3	4,049.8	46.731			
9,100.0	8,586.6	8,821.7	7,859.0	44.6	61.6	-70.35	2,699.3	-1,890.2	4,154.7	4,066.2	46.966			
9,200.0	8,686.6	8,821.7	7,859.0	44.6	61.6	-70.35	2,699.3	-1,890.2	4,173.3	4,085.0	47.247			
9,222.4	8,709.0	8,821.7	7,859.0	44.6	61.6	-70.35	2,699.3	-1,890.2	4,177.8	4,089.5	47.318			



Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Laramie 29-01 Fed 0993-21-15W - Slot A-10
<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 29-01 Fed 0993-21-15W	<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	Offset	Semi Major Axis	Reference		Highside	Offset Wellbore	Centre	Distance		Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Factor	
0.0	0.0	0.0	0.0	0.0	0.0	-46.56	38.6	-40.8	56.2			
100.0	100.0	100.0	100.0	0.4	0.4	-46.56	38.6	-40.8	56.2	55.4	70.891	
200.0	200.0	200.0	200.0	1.2	1.2	-46.56	38.6	-40.8	56.2	53.7	22.728 CC	
201.0	201.0	201.0	201.0	1.2	1.2	-102.56	38.6	-40.8	56.2	53.7	22.665	
300.0	300.0	299.4	299.4	1.6	1.6	-103.37	38.7	-40.9	56.5	53.4	18.656 ES	
400.0	399.9	396.8	396.8	3.0	2.6	-108.69	39.7	-43.8	60.8	56.2	13.300	
500.0	499.4	493.1	492.8	4.4	3.4	-116.87	42.2	-50.5	71.6	65.4	11.513 SF	
600.0	598.5	588.1	587.2	5.4	3.9	-123.94	47.3	-59.7	89.6	82.0	11.709	
700.0	696.9	681.3	679.4	6.3	4.8	-128.73	55.5	-70.8	114.3	105.0	12.271	
800.0	794.4	772.4	768.9	7.2	5.6	-131.72	66.6	-83.6	145.2	134.4	13.473	
900.0	890.9	860.9	855.1	7.9	6.4	-133.48	80.3	-97.8	181.8	169.7	15.098	
1,000.0	986.1	946.5	937.8	8.6	7.1	-134.42	96.2	-113.2	223.6	210.5	16.989	
1,100.0	1,080.0	1,029.0	1,016.7	9.3	7.7	-134.80	114.0	-129.7	270.5	256.3	19.059	
1,200.0	1,172.2	1,108.1	1,091.5	9.9	8.3	-134.80	133.3	-146.8	322.1	307.0	21.252	
1,300.0	1,262.6	1,183.8	1,162.1	10.5	8.8	-134.64	153.8	-164.4	378.1	362.1	23.618	
1,400.0	1,352.4	1,256.9	1,229.5	10.7	9.3	-135.17	175.5	-182.6	436.8	420.1	26.116	
1,500.0	1,442.1	1,328.0	1,294.2	11.1	9.8	-135.32	198.4	-201.4	496.9	479.5	28.486	
1,600.0	1,531.8	1,400.0	1,358.7	11.4	10.2	-135.20	223.3	-221.5	558.6	540.4	30.671	
1,700.0	1,621.5	1,464.5	1,415.5	11.8	10.6	-134.93	247.0	-240.3	621.6	602.7	32.892	
1,800.0	1,711.3	1,529.6	1,472.1	12.1	11.0	-134.53	272.4	-260.2	686.0	666.4	34.945	
1,900.0	1,801.0	1,600.0	1,532.2	12.5	11.4	-134.01	301.4	-282.7	751.7	731.3	36.696	
2,000.0	1,890.7	1,653.8	1,577.4	12.9	11.7	-133.55	324.6	-300.4	818.7	797.6	38.804	
2,100.0	1,980.5	1,713.5	1,626.7	13.3	12.0	-133.01	351.4	-320.7	886.9	865.1	40.674	
2,200.0	2,070.2	1,785.6	1,685.8	13.7	12.3	-132.38	384.4	-345.7	955.8	933.1	42.166	
2,300.0	2,159.9	1,857.8	1,744.9	14.1	12.5	-131.83	417.4	-370.6	1,024.7	1,001.1	43.489	
2,400.0	2,249.6	1,929.9	1,804.1	14.6	12.8	-131.35	450.4	-395.6	1,093.6	1,069.1	44.677	
2,500.0	2,339.4	2,002.1	1,863.2	15.1	13.1	-130.93	483.4	-420.5	1,162.6	1,137.1	45.743	
2,600.0	2,429.1	2,074.3	1,922.3	15.8	13.4	-130.56	516.4	-445.5	1,231.5	1,205.2	46.698	
2,700.0	2,518.8	2,146.4	1,981.5	16.6	13.8	-130.22	549.4	-470.4	1,300.6	1,273.2	47.569	
2,800.0	2,608.5	2,218.6	2,040.6	17.4	14.4	-129.92	582.3	-495.4	1,369.6	1,341.3	48.334	
2,900.0	2,698.3	2,290.7	2,099.7	18.2	15.1	-129.65	615.3	-520.3	1,438.7	1,409.3	49.041	
3,000.0	2,788.0	2,362.9	2,158.8	19.0	15.8	-129.40	648.3	-545.3	1,507.7	1,477.4	49.679	
3,100.0	2,877.7	2,435.1	2,218.0	19.8	16.6	-129.17	681.3	-570.2	1,576.8	1,545.5	50.262	
3,200.0	2,967.5	2,507.2	2,277.1	20.6	17.3	-128.96	714.3	-595.1	1,645.9	1,613.5	50.795	
3,300.0	3,057.2	2,579.4	2,336.2	21.4	18.1	-128.77	747.3	-620.1	1,715.0	1,681.6	51.278	
3,400.0	3,146.9	2,651.5	2,395.4	22.2	18.8	-128.60	780.3	-645.0	1,784.2	1,749.7	51.721	
3,500.0	3,236.6	2,723.7	2,454.5	23.0	19.6	-128.43	813.3	-670.0	1,853.3	1,817.7	52.128	
3,600.0	3,326.4	2,795.9	2,513.6	23.8	20.4	-128.28	846.3	-694.9	1,922.4	1,885.8	52.503	
3,700.0	3,416.1	2,868.0	2,572.7	24.6	21.2	-128.14	879.3	-719.9	1,991.6	1,953.9	52.847	
3,800.0	3,505.8	2,940.2	2,631.9	25.4	21.9	-128.01	912.3	-744.8	2,060.7	2,022.0	53.164	
3,900.0	3,595.6	3,012.4	2,691.0	26.2	22.7	-127.89	945.3	-769.8	2,129.9	2,090.0	53.459	
4,000.0	3,685.3	3,084.5	2,750.1	27.0	23.5	-127.77	978.3	-794.7	2,199.0	2,158.1	53.731	
4,100.0	3,775.0	3,156.7	2,809.3	27.8	24.3	-127.66	1,011.3	-819.7	2,268.2	2,226.2	53.983	
4,200.0	3,864.7	3,228.8	2,868.4	28.6	25.0	-127.56	1,044.3	-844.6	2,337.4	2,294.3	54.218	
4,300.0	3,954.5	3,301.0	2,927.5	29.4	25.8	-127.47	1,077.3	-869.6	2,406.5	2,362.3	54.437	
4,400.0	4,044.2	3,373.2	2,986.6	30.3	26.6	-127.38	1,110.3	-894.5	2,475.7	2,430.4	54.640	
4,500.0	4,133.9	3,445.3	3,045.8	31.1	27.4	-127.29	1,143.3	-919.4	2,544.9	2,498.5	54.830	
4,600.0	4,223.7	3,517.5	3,104.9	31.9	28.2	-127.21	1,176.3	-944.4	2,614.1	2,566.5	55.008	
4,700.0	4,313.4	3,589.6	3,164.0	32.7	29.0	-127.13	1,209.3	-969.3	2,683.2	2,634.6	55.174	
4,800.0	4,403.1	3,661.8	3,223.2	33.5	29.7	-127.06	1,242.3	-994.3	2,752.4	2,702.7	55.330	
4,900.0	4,492.8	3,734.0	3,282.3	34.3	30.5	-126.99	1,275.3	-1,019.2	2,821.6	2,770.8	55.476	

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Laramie 29-01 Fed 0993-21-15W - Slot A-10
<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 29-01 Fed 0993-21-15W	<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 Centre +N-S (usft)	Centre +E-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning
5,000.0	4,582.6	3,806.1	3,341.4	35.1	31.3	-126.92	1,308.3	-1,044.2	2,890.8	2,838.8	55.614	
5,100.0	4,672.3	3,878.3	3,400.5	35.9	32.1	-126.86	1,341.3	-1,069.1	2,960.0	2,906.9	55.743	
5,200.0	4,762.0	3,950.4	3,459.7	36.7	32.9	-126.80	1,374.3	-1,094.1	3,029.2	2,975.0	55.864	
5,300.0	4,851.8	4,022.6	3,518.8	37.5	33.7	-126.74	1,407.3	-1,119.0	3,098.4	3,043.0	55.979	
5,400.0	4,941.5	4,094.8	3,577.9	38.3	34.4	-126.69	1,440.3	-1,144.0	3,167.6	3,111.1	56.087	
5,500.0	5,031.2	4,166.9	3,637.1	39.1	35.2	-126.64	1,473.3	-1,168.9	3,236.8	3,179.2	56.189	
5,600.0	5,121.0	4,239.1	3,696.2	39.9	36.0	-126.92	1,506.3	-1,193.9	3,305.9	3,247.2	56.289	
5,700.0	5,212.0	4,312.4	3,756.2	40.7	36.8	-128.84	1,539.8	-1,219.2	3,373.8	3,314.0	56.369	
5,800.0	5,304.7	4,387.2	3,817.5	41.3	37.6	-130.16	1,574.0	-1,245.0	3,439.7	3,378.8	56.414	
5,900.0	5,398.9	4,463.4	3,880.0	41.9	38.5	-131.49	1,608.8	-1,271.4	3,503.5	3,441.4	56.448	
6,000.0	5,494.5	4,540.8	3,943.4	42.5	39.3	-132.65	1,644.2	-1,298.2	3,565.1	3,501.9	56.473	
6,100.0	5,591.3	4,619.4	4,007.8	42.9	40.2	-133.65	1,680.2	-1,325.3	3,624.4	3,560.2	56.491	
6,200.0	5,689.1	4,698.9	4,072.9	43.3	41.0	-134.51	1,716.5	-1,352.8	3,681.3	3,616.2	56.504	
6,300.0	5,787.7	4,779.2	4,138.7	43.5	41.9	-135.24	1,753.2	-1,380.6	3,735.8	3,669.7	56.516	
6,400.0	5,887.0	4,860.1	4,205.0	43.8	42.8	-135.85	1,790.2	-1,408.5	3,787.9	3,720.9	56.531	
6,500.0	5,986.7	4,941.6	4,271.8	43.9	43.7	-136.35	1,827.5	-1,436.7	3,837.6	3,769.7	56.553	
6,600.0	6,086.6	5,023.3	4,338.8	44.0	44.6	-136.75	1,864.9	-1,465.0	3,884.7	3,816.0	56.591	
6,700.0	6,186.6	5,105.3	4,405.9	44.0	45.5	-80.49	1,902.3	-1,493.3	3,929.9	3,860.7	56.739	
6,800.0	6,286.6	5,187.2	4,473.1	44.0	46.4	-79.97	1,939.8	-1,521.6	3,975.4	3,905.5	56.892	
6,900.0	6,386.6	7,250.4	6,386.6	44.0	57.8	-73.95	2,433.0	-1,894.5	4,012.9	3,926.8	46.646	
7,000.0	6,486.6	7,350.4	6,486.6	44.1	57.8	-73.95	2,433.0	-1,894.5	4,012.9	3,926.8	46.624	
7,100.0	6,586.6	7,450.4	6,586.6	44.1	57.8	-73.95	2,433.0	-1,894.5	4,012.9	3,926.8	46.603	
7,200.0	6,686.6	7,550.4	6,686.6	44.1	57.8	-73.95	2,433.0	-1,894.5	4,012.9	3,926.7	46.581	
7,300.0	6,786.6	7,650.4	6,786.6	44.1	57.8	-73.95	2,433.0	-1,894.5	4,012.9	3,926.7	46.559	
7,400.0	6,886.6	7,750.4	6,886.6	44.2	57.8	-73.95	2,433.0	-1,894.5	4,012.9	3,926.6	46.537	
7,500.0	6,986.6	7,850.4	6,986.6	44.2	57.9	-73.95	2,433.0	-1,894.5	4,012.9	3,926.6	46.514	
7,600.0	7,086.6	7,950.4	7,086.6	44.2	57.9	-73.95	2,433.0	-1,894.5	4,012.9	3,926.6	46.492	
7,700.0	7,186.6	8,050.4	7,186.6	44.2	57.9	-73.95	2,433.0	-1,894.5	4,012.9	3,926.5	46.469	
7,800.0	7,286.6	8,150.4	7,286.6	44.3	57.9	-73.95	2,433.0	-1,894.5	4,012.9	3,926.5	46.447	
7,900.0	7,386.6	8,250.4	7,386.6	44.3	57.9	-73.95	2,433.0	-1,894.5	4,012.9	3,926.4	46.424	
8,000.0	7,486.6	8,350.4	7,486.6	44.3	58.0	-73.95	2,433.0	-1,894.5	4,012.9	3,926.4	46.401	
8,100.0	7,586.6	8,450.4	7,586.6	44.3	58.0	-73.95	2,433.0	-1,894.5	4,012.9	3,926.3	46.378	
8,200.0	7,686.6	8,550.4	7,686.6	44.4	58.0	-73.95	2,433.0	-1,894.5	4,012.9	3,926.3	46.355	
8,300.0	7,786.6	8,650.4	7,786.6	44.4	58.0	-73.95	2,433.0	-1,894.5	4,012.9	3,926.3	46.332	
8,400.0	7,886.6	8,750.4	7,886.6	44.4	58.0	-73.95	2,433.0	-1,894.5	4,012.9	3,926.2	46.308	
8,500.0	7,986.6	8,850.4	7,986.6	44.4	58.0	-73.95	2,433.0	-1,894.5	4,012.9	3,926.2	46.285	
8,600.0	8,086.6	8,950.4	8,086.6	44.5	58.1	-73.95	2,433.0	-1,894.5	4,012.9	3,926.1	46.261	
8,700.0	8,186.6	9,050.4	8,186.6	44.5	58.1	-73.95	2,433.0	-1,894.5	4,012.9	3,926.1	46.237	
8,800.0	8,286.6	9,150.4	8,286.6	44.5	58.1	-73.95	2,433.0	-1,894.5	4,012.9	3,926.0	46.213	
8,900.0	8,386.6	9,250.4	8,386.6	44.5	58.1	-73.95	2,433.0	-1,894.5	4,012.9	3,926.0	46.189	
9,000.0	8,486.6	9,350.4	8,486.6	44.6	58.1	-73.95	2,433.0	-1,894.5	4,012.9	3,925.9	46.165	
9,100.0	8,586.6	9,450.4	8,586.6	44.6	58.2	-73.95	2,433.0	-1,894.5	4,012.9	3,925.9	46.141	
9,110.5	8,597.1	9,460.9	8,597.1	44.6	58.2	-73.95	2,433.0	-1,894.5	4,012.9	3,925.9	46.138	
9,200.0	8,686.6	9,534.8	8,671.0	44.6	58.2	-73.95	2,433.0	-1,894.5	4,012.9	3,925.9	46.111	
9,222.4	8,709.0	9,534.8	8,671.0	44.6	58.2	-73.95	2,433.0	-1,894.5	4,013.1	3,926.0	46.100	

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 29-01 Fed 0993-21-15W - Slot A-10
<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 29-01 Fed 0993-21-15W	<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
Laramie 0993-29-01 - Laramie 29-01 0993-20-13E - OH - Design #1													
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	-46.79	27.5	-29.2	40.1				
100.0	100.0	100.0	100.0	0.4	0.4	-46.79	27.5	-29.2	40.1	39.3	50.663		
200.0	200.0	200.0	200.0	1.2	1.2	-46.79	27.5	-29.2	40.1	37.7	16.243	CC	
200.0	200.0	200.0	200.0	1.2	1.2	-46.79	27.5	-29.2	40.1	37.7	16.242		
300.0	300.0	299.8	299.8	1.6	1.6	-103.88	27.5	-29.3	40.3	37.2	12.914	ES	
400.0	399.9	397.9	397.9	3.0	2.5	-111.07	28.3	-31.7	44.2	39.6	9.724		
500.0	499.4	494.8	494.6	4.4	4.0	-121.60	30.3	-37.9	55.0	48.1	7.917	SF	
600.0	598.5	589.9	589.1	5.4	4.6	-130.74	33.6	-47.9	74.0	65.5	8.625		
700.0	696.9	683.5	681.6	6.3	5.0	-136.29	39.4	-60.2	100.4	90.5	10.158		
800.0	794.4	774.8	771.5	7.2	5.7	-139.14	48.1	-74.2	133.0	121.7	11.800		
900.0	890.9	863.6	858.1	7.9	6.4	-140.48	59.5	-89.6	171.1	158.6	13.670		
1,000.0	986.1	949.4	941.2	8.6	7.0	-140.95	73.2	-106.2	214.5	200.9	15.743		
1,100.0	1,080.0	1,032.1	1,020.4	9.3	7.6	-140.90	88.8	-123.8	262.9	248.2	17.957		
1,200.0	1,172.2	1,111.3	1,095.5	9.9	8.2	-140.52	106.1	-142.1	315.8	300.2	20.270		
1,300.0	1,262.6	1,187.0	1,166.5	10.5	8.7	-140.04	124.7	-160.8	373.2	356.8	22.746		
1,400.0	1,352.4	1,260.1	1,234.2	10.7	9.2	-140.23	144.5	-180.1	433.0	415.9	25.351		
1,500.0	1,442.1	1,331.3	1,299.3	11.1	9.6	-140.09	165.6	-200.0	494.2	476.4	27.819		
1,600.0	1,531.8	1,400.0	1,361.1	11.4	10.1	-139.76	187.5	-220.1	556.7	538.3	30.188		
1,700.0	1,621.5	1,468.0	1,421.5	11.8	10.5	-139.28	210.8	-241.0	620.5	601.4	32.399		
1,800.0	1,711.3	1,533.4	1,478.6	12.1	10.9	-138.72	234.6	-261.9	685.6	665.7	34.529		
1,900.0	1,801.0	1,600.0	1,536.0	12.5	11.3	-138.08	260.4	-284.1	751.9	731.3	36.476		
2,000.0	1,890.7	1,660.4	1,587.1	12.9	11.5	-137.45	284.9	-305.0	819.4	798.2	38.644		
2,100.0	1,980.5	1,733.4	1,648.5	13.3	11.7	-136.76	314.9	-330.4	887.3	865.3	40.313		
2,200.0	2,070.2	1,806.4	1,710.0	13.7	12.0	-136.16	345.0	-355.8	955.3	932.5	41.810		
2,300.0	2,159.9	1,879.4	1,771.5	14.1	12.3	-135.65	375.0	-381.2	1,023.4	999.7	43.141		
2,400.0	2,249.6	1,952.3	1,832.9	14.6	12.6	-135.19	405.1	-406.7	1,091.5	1,066.9	44.340		
2,500.0	2,339.4	2,025.3	1,894.4	15.1	12.9	-134.79	435.1	-432.1	1,159.6	1,134.1	45.424		
2,600.0	2,429.1	2,098.3	1,955.8	15.8	13.3	-134.44	465.1	-457.5	1,227.8	1,201.3	46.404		
2,700.0	2,518.8	2,171.3	2,017.3	16.6	13.8	-134.12	495.2	-482.9	1,295.9	1,268.5	47.284		
2,800.0	2,608.5	2,244.3	2,078.8	17.4	14.3	-133.83	525.2	-508.3	1,364.1	1,335.7	48.085		
2,900.0	2,698.3	2,317.2	2,140.2	18.2	15.0	-133.57	555.2	-533.8	1,432.3	1,403.0	48.814		
3,000.0	2,788.0	2,390.2	2,201.7	19.0	15.6	-133.33	585.3	-559.2	1,500.5	1,470.2	49.477		
3,100.0	2,877.7	2,463.2	2,263.1	19.8	16.3	-133.12	615.3	-584.6	1,568.8	1,537.5	50.080		
3,200.0	2,967.5	2,536.2	2,324.6	20.6	17.0	-132.92	645.4	-610.0	1,637.0	1,604.7	50.632		
3,300.0	3,057.2	2,609.1	2,386.1	21.4	17.8	-132.74	675.4	-635.5	1,705.3	1,671.9	51.139		
3,400.0	3,146.9	2,682.1	2,447.5	22.2	18.5	-132.57	705.4	-660.9	1,773.6	1,739.2	51.602		
3,500.0	3,236.6	2,755.1	2,509.0	23.0	19.2	-132.41	735.5	-686.3	1,841.8	1,806.4	52.029		
3,600.0	3,326.4	2,828.1	2,570.4	23.8	19.9	-132.27	765.5	-711.7	1,910.1	1,873.7	52.422		
3,700.0	3,416.1	2,901.1	2,631.9	24.6	20.6	-132.13	795.6	-737.1	1,978.4	1,940.9	52.786		
3,800.0	3,505.8	2,974.0	2,693.4	25.4	21.4	-132.01	825.6	-762.6	2,046.7	2,008.2	53.121		
3,900.0	3,595.6	3,047.0	2,754.8	26.2	22.1	-131.89	855.6	-788.0	2,115.0	2,075.4	53.432		
4,000.0	3,685.3	3,120.0	2,816.3	27.0	22.8	-131.78	885.7	-813.4	2,183.3	2,142.6	53.720		
4,100.0	3,775.0	3,193.0	2,877.7	27.8	23.6	-131.68	915.7	-838.8	2,251.6	2,209.9	53.989		
4,200.0	3,864.7	3,266.0	2,939.2	28.6	24.3	-131.58	945.8	-864.3	2,319.9	2,277.1	54.238		
4,300.0	3,954.5	3,338.9	3,000.6	29.4	25.1	-131.49	975.8	-889.7	2,388.2	2,344.4	54.471		
4,400.0	4,044.2	3,411.9	3,062.1	30.3	25.8	-131.40	1,005.8	-915.1	2,456.5	2,411.6	54.689		
4,500.0	4,133.9	3,484.9	3,123.6	31.1	26.5	-131.32	1,035.9	-940.5	2,524.8	2,478.8	54.892		
4,600.0	4,223.7	3,557.9	3,185.0	31.9	27.3	-131.24	1,065.9	-966.0	2,593.2	2,546.1	55.082		
4,700.0	4,313.4	3,630.8	3,246.5	32.7	28.0	-131.17	1,096.0	-991.4	2,661.5	2,613.3	55.260		
4,800.0	4,403.1	3,703.8	3,307.9	33.5	28.8	-131.10	1,126.0	-1,016.8	2,729.8	2,680.6	55.428		
4,900.0	4,492.8	3,776.8	3,369.4	34.3	29.5	-131.03	1,156.0	-1,042.2	2,798.1	2,747.8	55.585		

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Laramie 29-01 Fed 0993-21-15W - Slot A-10
<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 29-01 Fed 0993-21-15W	<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>Offset Design</b> Laramie 0993-29-01 - Laramie 29-01 0993-20-13E - OH - Design #1												<b>Offset Site Error:</b>	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												<b>Offset Well Error:</b>	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance		Separation Factor	Warning	
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)				Between Centres (usft)	Between Ellipses (usft)			
5,000.0	4,582.6	3,849.8	3,430.9	35.1	30.2	-130.97	1,186.1	-1,067.6	2,866.5	2,815.0	55.733		
5,100.0	4,672.3	3,922.8	3,492.3	35.9	31.0	-130.91	1,216.1	-1,093.1	2,934.8	2,882.3	55.873		
5,200.0	4,762.0	3,995.7	3,553.8	36.7	31.7	-130.85	1,246.2	-1,118.5	3,003.1	2,949.5	56.004		
5,300.0	4,851.8	4,068.7	3,615.2	37.5	32.5	-130.79	1,276.2	-1,143.9	3,071.5	3,016.7	56.128		
5,400.0	4,941.5	4,141.7	3,676.7	38.3	33.2	-130.74	1,306.2	-1,169.3	3,139.8	3,084.0	56.245		
5,500.0	5,031.2	4,214.7	3,738.2	39.1	34.0	-130.69	1,336.3	-1,194.8	3,208.1	3,151.2	56.356		
5,600.0	5,121.0	4,287.7	3,799.6	39.9	34.7	-130.95	1,366.3	-1,220.2	3,276.4	3,218.4	56.465		
5,700.0	5,212.0	4,361.9	3,862.1	40.7	35.5	-132.53	1,396.9	-1,246.0	3,343.3	3,284.2	56.544		
5,800.0	5,304.7	4,437.8	3,926.0	41.3	36.2	-133.91	1,428.1	-1,272.5	3,408.0	3,347.8	56.577		
5,900.0	5,398.9	4,515.2	3,991.2	41.9	37.0	-135.11	1,460.0	-1,299.4	3,470.4	3,409.1	56.591		
6,000.0	5,494.5	4,594.0	4,057.6	42.5	37.8	-136.14	1,492.4	-1,326.9	3,530.4	3,468.0	56.587		
6,100.0	5,591.3	4,674.0	4,125.0	42.9	38.7	-137.03	1,525.3	-1,354.8	3,587.9	3,524.5	56.570		
6,200.0	5,689.1	4,755.2	4,193.3	43.3	39.5	-137.78	1,558.7	-1,383.0	3,642.9	3,578.4	56.542		
6,300.0	5,787.7	4,837.3	4,262.5	43.5	40.3	-138.40	1,592.5	-1,411.6	3,695.2	3,629.8	56.507		
6,400.0	5,887.0	4,920.1	4,332.3	43.8	41.2	-138.91	1,626.6	-1,440.5	3,745.0	3,678.6	56.469		
6,500.0	5,986.7	5,003.6	4,402.6	43.9	42.0	-139.32	1,661.0	-1,469.6	3,792.0	3,724.8	56.433		
6,600.0	6,086.6	5,087.6	4,473.3	44.0	42.9	-139.63	1,695.6	-1,498.8	3,836.3	3,768.3	56.411		
6,700.0	6,186.6	5,171.8	4,544.2	44.0	43.8	-83.36	1,730.2	-1,528.2	3,878.7	3,810.0	56.512		
6,800.0	6,286.6	5,256.0	4,615.1	44.0	44.6	-82.85	1,764.9	-1,557.5	3,921.1	3,851.9	56.619		
6,900.0	6,386.6	5,338.7	4,686.6	44.0	53.9	-77.87	2,150.0	-1,883.5	3,933.2	3,849.6	47.033		
7,000.0	6,486.6	5,421.4	4,758.1	44.1	53.9	-77.87	2,150.0	-1,883.5	3,933.2	3,849.6	47.010		
7,100.0	6,586.6	5,504.1	4,829.6	44.1	53.9	-77.87	2,150.0	-1,883.5	3,933.2	3,849.5	46.987		
7,200.0	6,686.6	5,586.8	4,901.1	44.1	54.0	-77.87	2,150.0	-1,883.5	3,933.2	3,849.5	46.964		
7,300.0	6,786.6	5,669.5	4,972.6	44.1	54.0	-77.87	2,150.0	-1,883.5	3,933.2	3,849.5	46.940		
7,400.0	6,886.6	5,752.2	5,044.1	44.2	54.0	-77.87	2,150.0	-1,883.5	3,933.2	3,849.4	46.917		
7,500.0	6,986.6	5,834.9	5,115.6	44.2	54.0	-77.87	2,150.0	-1,883.5	3,933.2	3,849.4	46.893		
7,600.0	7,086.6	5,917.6	5,187.1	44.2	54.0	-77.87	2,150.0	-1,883.5	3,933.2	3,849.3	46.869		
7,700.0	7,186.6	6,000.3	5,258.6	44.2	54.1	-77.87	2,150.0	-1,883.5	3,933.2	3,849.3	46.845		
7,800.0	7,286.6	6,083.0	5,330.1	44.3	54.1	-77.87	2,150.0	-1,883.5	3,933.2	3,849.2	46.821		
7,900.0	7,386.6	6,165.7	5,401.6	44.3	54.1	-77.87	2,150.0	-1,883.5	3,933.2	3,849.2	46.797		
8,000.0	7,486.6	6,248.4	5,473.1	44.3	54.1	-77.87	2,150.0	-1,883.5	3,933.2	3,849.2	46.772		
8,100.0	7,586.6	6,331.1	5,544.6	44.3	54.1	-77.87	2,150.0	-1,883.5	3,933.2	3,849.1	46.748		
8,200.0	7,686.6	6,413.8	5,616.1	44.4	54.2	-77.87	2,150.0	-1,883.5	3,933.2	3,849.1	46.723		
8,300.0	7,786.6	6,496.5	5,687.6	44.4	54.2	-77.87	2,150.0	-1,883.5	3,933.2	3,849.0	46.698		
8,306.6	7,793.2	6,503.1	5,694.2	44.4	54.2	-77.87	2,150.0	-1,883.5	3,933.2	3,849.0	46.696		
8,400.0	7,886.6	6,586.8	5,765.7	44.4	54.2	-77.87	2,150.0	-1,883.5	3,933.4	3,849.1	46.665		
8,500.0	7,986.6	6,669.5	5,837.2	44.4	54.2	-77.87	2,150.0	-1,883.5	3,935.7	3,851.3	46.655		
8,600.0	8,086.6	6,752.2	5,908.7	44.5	54.2	-77.87	2,150.0	-1,883.5	3,940.4	3,856.0	46.699		
8,700.0	8,186.6	6,834.9	5,980.2	44.5	54.2	-77.87	2,150.0	-1,883.5	3,947.7	3,863.3	46.796		
8,800.0	8,286.6	6,917.6	6,051.7	44.5	54.2	-77.87	2,150.0	-1,883.5	3,957.5	3,873.2	46.945		
8,900.0	8,386.6	7,000.3	6,123.2	44.5	54.2	-77.87	2,150.0	-1,883.5	3,969.8	3,885.6	47.145		
9,000.0	8,486.6	7,083.0	6,194.7	44.6	54.2	-77.87	2,150.0	-1,883.5	3,984.6	3,900.5	47.397		
9,100.0	8,586.6	7,165.7	6,266.2	44.6	54.2	-77.87	2,150.0	-1,883.5	4,001.8	3,917.9	47.699		
9,200.0	8,686.6	7,248.4	6,337.7	44.6	54.2	-77.87	2,150.0	-1,883.5	4,021.4	3,937.8	48.051		
9,222.4	8,709.0	7,261.0	6,350.3	44.6	54.2	-77.87	2,150.0	-1,883.5	4,026.2	3,942.5	48.138		

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 29-01 Fed 0993-21-15W - Slot A-10
<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 29-01 Fed 0993-21-15W	<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	-46.96	16.4	-17.6	24.0					
100.0	100.0	100.0	100.0	0.4	0.4	-46.96	16.4	-17.6	24.0	23.2	30.327			
200.0	200.0	200.0	200.0	1.2	1.2	-46.96	16.4	-17.6	24.0	21.6	9.723	CC		
200.0	200.0	200.0	200.0	1.2	1.2	-46.96	16.4	-17.6	24.0	21.6	9.723			
300.0	300.0	300.0	300.0	1.6	1.7	-104.76	16.4	-17.6	24.2	21.0	7.541	ES		
400.0	399.9	399.4	399.4	3.0	1.9	-115.49	16.4	-18.1	26.3	22.3	6.458			
500.0	499.4	497.3	497.2	4.4	3.1	-131.55	16.8	-22.3	35.6	29.2	5.527	SF		
600.0	598.5	593.3	592.8	5.4	4.4	-143.23	17.5	-30.4	54.1	45.2	6.043			
700.0	696.9	687.3	686.1	6.3	4.7	-149.46	19.1	-41.9	81.1	70.9	7.928			
800.0	794.4	779.6	777.3	7.2	5.2	-151.73	23.4	-55.6	114.2	102.8	9.951			
900.0	890.9	869.4	865.5	7.9	5.8	-152.20	30.6	-70.8	152.8	140.1	12.016			
1,000.0	986.1	956.3	950.2	8.6	6.4	-151.86	40.1	-87.5	196.6	182.7	14.186			
1,100.0	1,080.0	1,039.9	1,031.1	9.3	7.0	-151.12	51.9	-105.3	245.3	230.4	16.478			
1,200.0	1,172.2	1,120.0	1,107.8	9.9	7.6	-150.16	65.4	-123.9	298.7	282.9	18.875			
1,300.0	1,262.6	1,196.5	1,180.4	10.5	8.1	-149.19	80.3	-143.0	356.5	339.9	21.449			
1,400.0	1,352.4	1,270.5	1,249.7	10.7	8.6	-148.81	96.7	-162.8	416.8	399.5	24.164			
1,500.0	1,442.1	1,342.6	1,316.5	11.1	9.1	-148.23	114.5	-183.4	478.2	460.3	26.736			
1,600.0	1,531.8	1,412.8	1,380.7	11.4	9.5	-147.51	133.4	-204.5	540.9	522.4	29.185			
1,700.0	1,621.5	1,481.0	1,442.3	11.8	9.9	-146.73	153.4	-226.0	604.8	585.6	31.515			
1,800.0	1,711.3	1,547.2	1,501.2	12.1	10.3	-145.91	174.3	-247.9	669.8	650.0	33.736			
1,900.0	1,801.0	1,611.4	1,557.5	12.5	10.7	-145.07	195.8	-270.0	736.1	715.6	35.899			
2,000.0	1,890.7	1,677.0	1,614.1	12.9	11.0	-144.20	219.2	-293.5	803.5	782.4	38.031			
2,100.0	1,980.5	1,750.0	1,676.9	13.3	11.2	-143.33	245.5	-319.7	871.3	849.4	39.815			
2,200.0	2,070.2	1,822.9	1,739.6	13.7	11.5	-142.59	271.8	-346.0	939.2	916.5	41.429			
2,300.0	2,159.9	1,895.8	1,802.4	14.1	11.8	-141.95	298.0	-372.3	1,007.1	983.6	42.884			
2,400.0	2,249.6	1,968.7	1,865.1	14.6	12.1	-141.39	324.3	-398.5	1,075.1	1,050.8	44.192			
2,500.0	2,339.4	2,041.7	1,927.9	15.1	12.4	-140.89	350.6	-424.8	1,143.2	1,118.0	45.381			
2,600.0	2,429.1	2,114.6	1,990.6	15.8	12.8	-140.45	376.9	-451.1	1,211.3	1,185.2	46.464			
2,700.0	2,518.8	2,187.5	2,053.4	16.6	13.2	-140.05	403.2	-477.3	1,279.4	1,252.5	47.454			
2,800.0	2,608.5	2,260.4	2,116.1	17.4	13.8	-139.70	429.5	-503.6	1,347.6	1,319.7	48.343			
2,900.0	2,698.3	2,333.4	2,178.9	18.2	14.3	-139.38	455.8	-529.8	1,415.8	1,387.0	49.157			
3,000.0	2,788.0	2,406.3	2,241.6	19.0	14.9	-139.09	482.1	-556.1	1,484.0	1,454.2	49.903			
3,100.0	2,877.7	2,479.2	2,304.4	19.8	15.6	-138.82	508.3	-582.4	1,552.2	1,521.5	50.583			
3,200.0	2,967.5	2,552.1	2,367.1	20.6	16.2	-138.58	534.6	-608.6	1,620.5	1,588.8	51.206			
3,300.0	3,057.2	2,625.1	2,429.8	21.4	16.9	-138.35	560.9	-634.9	1,688.7	1,656.1	51.780			
3,400.0	3,146.9	2,698.0	2,492.6	22.2	17.6	-138.14	587.2	-661.2	1,757.0	1,723.4	52.309			
3,500.0	3,236.6	2,770.9	2,555.3	23.0	18.2	-137.95	613.5	-687.4	1,825.3	1,790.7	52.795			
3,600.0	3,326.4	2,843.9	2,618.1	23.8	18.9	-137.78	639.8	-713.7	1,893.6	1,858.0	53.244			
3,700.0	3,416.1	2,916.8	2,680.8	24.6	19.6	-137.61	666.1	-740.0	1,961.9	1,925.3	53.660			
3,800.0	3,505.8	2,989.7	2,743.6	25.4	20.3	-137.46	692.3	-766.2	2,030.2	1,992.6	54.046			
3,900.0	3,595.6	3,062.6	2,806.3	26.2	21.0	-137.31	718.6	-792.5	2,098.5	2,059.9	54.403			
4,000.0	3,685.3	3,135.6	2,869.1	27.0	21.6	-137.18	744.9	-818.7	2,166.8	2,127.2	54.736			
4,100.0	3,775.0	3,208.5	2,931.8	27.8	22.3	-137.05	771.2	-845.0	2,235.2	2,194.5	55.046			
4,200.0	3,864.7	3,281.4	2,994.6	28.6	23.0	-136.93	797.5	-871.3	2,303.5	2,261.9	55.334			
4,300.0	3,954.5	3,354.3	3,057.3	29.4	23.7	-136.82	823.8	-897.5	2,371.8	2,329.2	55.604			
4,400.0	4,044.2	3,427.3	3,120.1	30.3	24.4	-136.71	850.1	-923.8	2,440.2	2,396.5	55.856			
4,500.0	4,133.9	3,500.2	3,182.8	31.1	25.1	-136.61	876.4	-950.1	2,508.5	2,463.8	56.093			
4,600.0	4,223.7	3,573.1	3,245.6	31.9	25.8	-136.52	902.6	-976.3	2,576.9	2,531.1	56.314			
4,700.0	4,313.4	3,646.0	3,308.3	32.7	26.5	-136.43	928.9	-1,002.6	2,645.2	2,598.4	56.522			
4,800.0	4,403.1	3,719.0	3,371.1	33.5	27.2	-136.34	955.2	-1,028.9	2,713.6	2,665.8	56.718			
4,900.0	4,492.8	3,791.9	3,433.8	34.3	27.9	-136.26	981.5	-1,055.1	2,782.0	2,733.1	56.902			

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 29-01 Fed 0993-21-15W - Slot A-10
<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 29-01 Fed 0993-21-15W	<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 Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning		
5,000.0	4,582.6	3,864.8	3,496.6	35.1	28.6	-136.18	1,007.8	-1,081.4	2,850.3	2,800.4	57.075			
5,100.0	4,672.3	3,937.7	3,559.3	35.9	29.3	-136.11	1,034.1	-1,107.7	2,918.7	2,867.7	57.239			
5,200.0	4,762.0	4,010.7	3,622.1	36.7	30.0	-136.04	1,060.4	-1,133.9	2,987.1	2,935.0	57.393			
5,300.0	4,851.8	4,083.6	3,684.8	37.5	30.7	-135.97	1,086.6	-1,160.2	3,055.4	3,002.3	57.539			
5,400.0	4,941.5	4,156.5	3,747.6	38.3	31.4	-135.90	1,112.9	-1,186.4	3,123.8	3,069.7	57.677			
5,500.0	5,031.2	4,229.4	3,810.3	39.1	32.1	-135.84	1,139.2	-1,212.7	3,192.2	3,137.0	57.807			
5,600.0	5,121.0	4,302.4	3,873.1	39.9	32.8	-136.07	1,165.5	-1,239.0	3,260.5	3,204.3	57.935			
5,700.0	5,212.0	4,376.7	3,937.0	40.7	33.5	-137.50	1,192.3	-1,265.7	3,327.4	3,270.0	58.022			
5,800.0	5,304.7	4,452.8	4,002.5	41.3	34.3	-138.74	1,219.7	-1,293.1	3,391.8	3,333.3	58.045			
5,900.0	5,398.9	4,530.7	4,069.5	41.9	35.0	-139.80	1,247.8	-1,321.2	3,453.6	3,394.1	58.038			
6,000.0	5,494.5	4,610.1	4,137.9	42.5	35.8	-140.71	1,276.4	-1,349.8	3,512.9	3,452.3	58.004			
6,100.0	5,591.3	4,691.0	4,207.4	42.9	36.6	-141.48	1,305.6	-1,378.9	3,569.5	3,507.9	57.948			
6,200.0	5,689.1	4,773.1	4,278.1	43.3	37.3	-142.12	1,335.2	-1,408.5	3,623.3	3,560.7	57.873			
6,300.0	5,787.7	4,856.4	4,349.7	43.5	38.2	-142.64	1,365.2	-1,438.5	3,674.3	3,610.7	57.785			
6,400.0	5,887.0	4,940.6	4,422.2	43.8	39.0	-143.06	1,395.5	-1,468.8	3,722.4	3,657.9	57.687			
6,500.0	5,986.7	5,025.6	4,495.3	43.9	39.8	-143.38	1,426.2	-1,499.4	3,767.6	3,702.2	57.586			
6,600.0	6,086.6	5,111.2	4,569.0	44.0	40.6	-143.61	1,457.1	-1,530.3	3,809.9	3,743.7	57.497			
6,700.0	6,186.6	5,197.2	4,643.1	44.0	41.5	-87.33	1,488.1	-1,561.3	3,850.0	3,783.1	57.553			
6,800.0	6,286.6	6,939.6	6,286.6	44.0	50.1	-82.65	1,820.8	-1,893.7	3,887.6	3,806.9	48.182			
6,900.0	6,386.6	7,039.6	6,386.6	44.0	50.1	-82.65	1,820.8	-1,893.7	3,887.6	3,806.9	48.157			
7,000.0	6,486.6	7,139.6	6,486.6	44.1	50.2	-82.65	1,820.8	-1,893.7	3,887.6	3,806.8	48.131			
7,100.0	6,586.6	7,239.6	6,586.6	44.1	50.2	-82.65	1,820.8	-1,893.7	3,887.6	3,806.8	48.106			
7,200.0	6,686.6	7,339.6	6,686.6	44.1	50.2	-82.65	1,820.8	-1,893.7	3,887.6	3,806.7	48.080			
7,300.0	6,786.6	7,439.6	6,786.6	44.1	50.2	-82.65	1,820.8	-1,893.7	3,887.6	3,806.7	48.054			
7,400.0	6,886.6	7,539.6	6,886.6	44.2	50.3	-82.65	1,820.8	-1,893.7	3,887.6	3,806.6	48.028			
7,500.0	6,986.6	7,639.6	6,986.6	44.2	50.3	-82.65	1,820.8	-1,893.7	3,887.6	3,806.6	48.002			
7,600.0	7,086.6	7,739.6	7,086.6	44.2	50.3	-82.65	1,820.8	-1,893.7	3,887.6	3,806.6	47.975			
7,700.0	7,186.6	7,839.6	7,186.6	44.2	50.3	-82.65	1,820.8	-1,893.7	3,887.6	3,806.5	47.949			
7,800.0	7,286.6	7,939.6	7,286.6	44.3	50.3	-82.65	1,820.8	-1,893.7	3,887.6	3,806.5	47.922			
7,900.0	7,386.6	8,039.6	7,386.6	44.3	50.4	-82.65	1,820.8	-1,893.7	3,887.6	3,806.4	47.895			
8,000.0	7,486.6	8,139.6	7,486.6	44.3	50.4	-82.65	1,820.8	-1,893.7	3,887.6	3,806.4	47.868			
8,100.0	7,586.6	8,239.6	7,586.6	44.3	50.4	-82.65	1,820.8	-1,893.7	3,887.6	3,806.3	47.841			
8,200.0	7,686.6	8,339.6	7,686.6	44.4	50.4	-82.65	1,820.8	-1,893.7	3,887.6	3,806.3	47.814			
8,300.0	7,786.6	8,439.6	7,786.6	44.4	50.5	-82.65	1,820.8	-1,893.7	3,887.6	3,806.2	47.787			
8,400.0	7,886.6	8,539.6	7,886.6	44.4	50.5	-82.65	1,820.8	-1,893.7	3,887.6	3,806.2	47.759			
8,500.0	7,986.6	8,639.6	7,986.6	44.4	50.5	-82.65	1,820.8	-1,893.7	3,887.6	3,806.1	47.731			
8,600.0	8,086.6	8,739.6	8,086.6	44.5	50.5	-82.65	1,820.8	-1,893.7	3,887.6	3,806.1	47.703			
8,700.0	8,186.6	8,839.6	8,186.6	44.5	50.5	-82.65	1,820.8	-1,893.7	3,887.6	3,806.0	47.675			
8,800.0	8,286.6	8,939.6	8,286.6	44.5	50.6	-82.65	1,820.8	-1,893.7	3,887.6	3,806.0	47.647			
8,900.0	8,386.6	9,039.6	8,386.6	44.5	50.6	-82.65	1,820.8	-1,893.7	3,887.6	3,805.9	47.619			
9,000.0	8,486.6	9,139.6	8,486.6	44.6	50.6	-82.65	1,820.8	-1,893.7	3,887.6	3,805.9	47.591			
9,100.0	8,586.6	9,239.6	8,586.6	44.6	50.6	-82.65	1,820.8	-1,893.7	3,887.6	3,805.8	47.562			
9,102.6	8,589.3	9,242.2	8,589.3	44.6	50.6	-82.65	1,820.8	-1,893.7	3,887.6	3,805.8	47.561			
9,200.0	8,686.6	9,310.0	8,657.0	44.6	50.7	-82.65	1,820.8	-1,893.7	3,887.7	3,805.9	47.532			
9,222.4	8,709.0	9,310.0	8,657.0	44.6	50.7	-82.65	1,820.8	-1,893.7	3,887.9	3,806.1	47.531			

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 29-01 Fed 0993-21-15W - Slot A-10
<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 29-01 Fed 0993-21-15W	<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	-47.44	5.5	-5.9	8.1			
100.0	100.0	100.0	100.0	0.4	0.4	-47.44	5.5	-5.9	8.1	7.3	10.196	
200.0	200.0	200.0	200.0	1.2	1.2	-47.44	5.5	-5.9	8.1	5.6	3.269	CC
200.2	200.2	200.2	200.2	1.2	1.2	-47.44	5.5	-5.9	8.1	5.6	3.266	
300.0	300.0	300.0	300.0	1.6	1.7	-108.72	5.5	-5.9	8.3	5.1	2.581	ES
400.0	399.9	399.9	399.9	3.0	2.1	-133.45	5.5	-5.9	10.8	6.2	2.350	Level 1, SF
500.0	499.4	498.8	498.8	4.4	2.4	-154.23	5.4	-7.1	19.6	13.1	3.017	
600.0	598.5	596.0	595.8	5.4	3.6	-162.54	4.9	-12.3	37.4	28.6	4.242	
700.0	696.9	690.8	690.2	6.3	4.2	-165.30	4.2	-21.2	63.5	53.3	6.241	
800.0	794.4	784.3	782.9	7.2	4.6	-165.11	5.6	-32.9	95.8	84.4	8.461	
900.0	890.9	875.2	872.7	7.9	5.2	-163.77	9.7	-46.7	133.4	120.8	10.610	
1,000.0	986.1	963.1	959.0	8.6	5.8	-162.13	16.2	-62.2	176.3	162.5	12.803	
1,100.0	1,080.0	1,047.7	1,041.4	9.3	6.5	-160.44	24.8	-79.1	224.3	209.5	15.167	
1,200.0	1,172.2	1,128.6	1,119.6	9.9	7.1	-158.79	35.2	-97.2	277.2	261.5	17.628	
1,300.0	1,262.6	1,205.6	1,193.3	10.5	7.6	-157.28	47.1	-116.1	334.8	318.3	20.278	
1,400.0	1,352.4	1,280.0	1,263.7	10.7	8.1	-156.33	60.3	-135.8	395.0	377.9	23.085	
1,500.0	1,442.1	1,352.3	1,331.5	11.1	8.6	-155.31	74.9	-156.4	456.4	438.7	25.750	
1,600.0	1,531.8	1,422.6	1,396.6	11.4	9.1	-154.26	90.6	-177.7	519.1	500.7	28.296	
1,700.0	1,621.5	1,490.8	1,459.0	11.8	9.5	-153.21	107.3	-199.6	583.0	564.1	30.732	
1,800.0	1,711.3	1,556.9	1,518.7	12.1	9.9	-152.18	124.9	-221.9	648.3	628.7	33.061	
1,900.0	1,801.0	1,620.9	1,575.7	12.5	10.3	-151.18	143.2	-244.6	714.7	694.5	35.368	
2,000.0	1,890.7	1,688.7	1,635.3	12.9	10.5	-150.14	163.7	-269.5	782.3	761.5	37.583	
2,100.0	1,980.5	1,761.5	1,699.2	13.3	10.7	-149.17	185.8	-296.4	850.1	828.6	39.485	
2,200.0	2,070.2	1,834.2	1,763.1	13.7	11.0	-148.35	208.0	-323.3	918.1	895.8	41.216	
2,300.0	2,159.9	1,907.0	1,827.0	14.1	11.3	-147.64	230.1	-350.2	986.1	963.1	42.792	
2,400.0	2,249.6	1,979.8	1,890.9	14.6	11.6	-147.02	252.3	-377.1	1,054.2	1,030.4	44.218	
2,500.0	2,339.4	2,052.5	1,954.7	15.1	11.9	-146.47	274.4	-404.0	1,122.4	1,097.7	45.516	
2,600.0	2,429.1	2,125.3	2,018.6	15.8	12.2	-145.99	296.6	-430.9	1,190.6	1,165.1	46.688	
2,700.0	2,518.8	2,198.1	2,082.5	16.6	12.6	-145.56	318.7	-457.8	1,258.8	1,232.5	47.797	
2,800.0	2,608.5	2,270.9	2,146.4	17.4	13.0	-145.17	340.9	-484.7	1,327.1	1,299.9	48.796	
2,900.0	2,698.3	2,343.6	2,210.3	18.2	13.5	-144.82	363.0	-511.6	1,395.4	1,367.4	49.697	
3,000.0	2,788.0	2,416.4	2,274.2	19.0	14.0	-144.50	385.2	-538.4	1,463.8	1,434.8	50.528	
3,100.0	2,877.7	2,489.2	2,338.1	19.8	14.6	-144.21	407.3	-565.3	1,532.2	1,502.3	51.293	
3,200.0	2,967.5	2,561.9	2,402.0	20.6	15.2	-143.94	429.5	-592.2	1,600.5	1,569.8	51.996	
3,300.0	3,057.2	2,634.7	2,465.9	21.4	15.8	-143.70	451.6	-619.1	1,668.9	1,637.2	52.644	
3,400.0	3,146.9	2,707.5	2,529.7	22.2	16.4	-143.48	473.8	-646.0	1,737.4	1,704.7	53.243	
3,500.0	3,236.6	2,780.2	2,593.6	23.0	17.1	-143.27	495.9	-672.9	1,805.8	1,772.2	53.796	
3,600.0	3,326.4	2,853.0	2,657.5	23.8	17.7	-143.08	518.1	-699.8	1,874.2	1,839.7	54.308	
3,700.0	3,416.1	2,925.8	2,721.4	24.6	18.3	-142.90	540.2	-726.7	1,942.7	1,907.2	54.784	
3,800.0	3,505.8	2,998.5	2,785.3	25.4	19.0	-142.73	562.4	-753.6	2,011.1	1,974.7	55.227	
3,900.0	3,595.6	3,071.3	2,849.2	26.2	19.6	-142.58	584.5	-780.5	2,079.6	2,042.2	55.637	
4,000.0	3,685.3	3,144.1	2,913.1	27.0	20.3	-142.43	606.7	-807.3	2,148.1	2,109.7	56.020	
4,100.0	3,775.0	3,216.9	2,977.0	27.8	20.9	-142.29	628.8	-834.2	2,216.6	2,177.3	56.378	
4,200.0	3,864.7	3,289.6	3,040.9	28.6	21.5	-142.16	651.0	-861.1	2,285.1	2,244.8	56.713	
4,300.0	3,954.5	3,362.4	3,104.7	29.4	22.2	-142.04	673.1	-888.0	2,353.6	2,312.3	57.025	
4,400.0	4,044.2	3,435.2	3,168.6	30.3	22.8	-141.93	695.3	-914.9	2,422.1	2,379.8	57.319	
4,500.0	4,133.9	3,507.9	3,232.5	31.1	23.5	-141.82	717.4	-941.8	2,490.6	2,447.3	57.594	
4,600.0	4,223.7	3,580.7	3,296.4	31.9	24.1	-141.72	739.6	-968.7	2,559.1	2,514.8	57.852	
4,700.0	4,313.4	3,653.5	3,360.3	32.7	24.8	-141.62	761.7	-995.6	2,627.6	2,582.4	58.095	
4,800.0	4,403.1	3,726.2	3,424.2	33.5	25.4	-141.53	783.9	-1,022.5	2,696.1	2,649.9	58.325	
4,900.0	4,492.8	3,799.0	3,488.1	34.3	26.1	-141.44	806.0	-1,049.3	2,764.6	2,717.4	58.541	

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 29-01 Fed 0993-21-15W - Slot A-10
<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 29-01 Fed 0993-21-15W	<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	Offset			Semi Major Axis		Highside	Offset Wellbore	Centre	Distance		Separation	Warning	
Measured	Vertical	Measured	Vertical	Reference	Offset				+N/-S	+E/-W			Between
Depth	Depth	Depth	Depth	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)				(usft)	(usft)			
5,000.0	4,582.6	3,871.8	3,552.0	35.1	26.8	-141.36	828.2	-1,076.2	2,833.2	2,784.9	58.744		
5,100.0	4,672.3	3,944.6	3,615.9	35.9	27.4	-141.28	850.3	-1,103.1	2,901.7	2,852.5	58.937		
5,200.0	4,762.0	4,017.3	3,679.7	36.7	28.1	-141.20	872.5	-1,130.0	2,970.2	2,920.0	59.119		
5,300.0	4,851.8	4,090.1	3,743.6	37.5	28.7	-141.13	894.6	-1,156.9	3,038.8	2,987.5	59.291		
5,400.0	4,941.5	4,162.9	3,807.5	38.3	29.4	-141.06	916.8	-1,183.8	3,107.3	3,055.0	59.454		
5,500.0	5,031.2	4,235.6	3,871.4	39.1	30.0	-141.00	938.9	-1,210.7	3,175.8	3,122.6	59.609		
5,600.0	5,121.0	4,308.4	3,935.3	39.9	30.7	-141.19	961.1	-1,237.6	3,244.3	3,190.0	59.760		
5,700.0	5,212.0	4,382.7	4,000.5	40.7	31.4	-142.47	983.7	-1,265.0	3,311.2	3,255.9	59.857		
5,800.0	5,304.7	4,459.0	4,067.5	41.3	32.1	-143.58	1,006.9	-1,293.2	3,375.4	3,319.0	59.871		
5,900.0	5,398.9	4,537.2	4,136.1	41.9	32.8	-144.51	1,030.7	-1,322.1	3,437.0	3,379.5	59.844		
6,000.0	5,494.5	4,617.1	4,206.3	42.5	33.5	-145.31	1,055.1	-1,351.7	3,495.7	3,437.2	59.780		
6,100.0	5,591.3	4,698.7	4,278.0	42.9	34.2	-145.97	1,079.9	-1,381.8	3,551.5	3,492.0	59.685		
6,200.0	5,689.1	4,781.7	4,350.9	43.3	35.0	-146.51	1,105.2	-1,412.5	3,604.4	3,543.9	59.563		
6,300.0	5,787.7	4,866.1	4,424.9	43.5	35.8	-146.95	1,130.8	-1,443.6	3,654.3	3,592.8	59.418		
6,400.0	5,887.0	4,951.6	4,500.0	43.8	36.5	-147.28	1,156.9	-1,475.2	3,701.1	3,638.6	59.259		
6,500.0	5,986.7	5,038.0	4,575.8	43.9	37.3	-147.53	1,183.2	-1,507.2	3,744.8	3,681.4	59.091		
6,600.0	6,086.6	5,125.3	4,652.5	44.0	38.1	-147.69	1,209.7	-1,539.4	3,785.3	3,721.0	58.933		
6,700.0	6,186.6	5,213.0	4,729.5	44.0	38.9	-91.41	1,236.4	-1,571.8	3,823.4	3,758.6	58.947		
6,800.0	6,286.6	6,849.3	6,286.6	44.0	46.4	-87.45	1,494.8	-1,885.5	3,851.3	3,773.6	49.571		
6,900.0	6,386.6	6,949.3	6,386.6	44.0	46.5	-87.45	1,494.8	-1,885.5	3,851.3	3,773.5	49.543		
7,000.0	6,486.6	7,049.3	6,486.6	44.1	46.5	-87.45	1,494.8	-1,885.5	3,851.3	3,773.5	49.514		
7,100.0	6,586.6	7,149.3	6,586.6	44.1	46.5	-87.45	1,494.8	-1,885.5	3,851.3	3,773.5	49.486		
7,200.0	6,686.6	7,249.3	6,686.6	44.1	46.5	-87.45	1,494.8	-1,885.5	3,851.3	3,773.4	49.457		
7,300.0	6,786.6	7,349.3	6,786.6	44.1	46.6	-87.45	1,494.8	-1,885.5	3,851.3	3,773.4	49.428		
7,400.0	6,886.6	7,449.3	6,886.6	44.2	46.6	-87.45	1,494.8	-1,885.5	3,851.3	3,773.3	49.399		
7,500.0	6,986.6	7,549.3	6,986.6	44.2	46.6	-87.45	1,494.8	-1,885.5	3,851.3	3,773.3	49.369		
7,600.0	7,086.6	7,649.3	7,086.6	44.2	46.6	-87.45	1,494.8	-1,885.5	3,851.3	3,773.2	49.340		
7,700.0	7,186.6	7,749.3	7,186.6	44.2	46.7	-87.45	1,494.8	-1,885.5	3,851.3	3,773.2	49.310		
7,800.0	7,286.6	7,849.3	7,286.6	44.3	46.7	-87.45	1,494.8	-1,885.5	3,851.3	3,773.1	49.280		
7,900.0	7,386.6	7,949.3	7,386.6	44.3	46.7	-87.45	1,494.8	-1,885.5	3,851.3	3,773.1	49.250		
8,000.0	7,486.6	8,049.3	7,486.6	44.3	46.7	-87.45	1,494.8	-1,885.5	3,851.3	3,773.0	49.220		
8,100.0	7,586.6	8,149.3	7,586.6	44.3	46.8	-87.45	1,494.8	-1,885.5	3,851.3	3,773.0	49.190		
8,200.0	7,686.6	8,249.3	7,686.6	44.4	46.8	-87.45	1,494.8	-1,885.5	3,851.3	3,772.9	49.160		
8,300.0	7,786.6	8,349.3	7,786.6	44.4	46.8	-87.45	1,494.8	-1,885.5	3,851.3	3,772.9	49.129		
8,309.7	7,796.3	8,359.0	7,796.3	44.4	46.8	-87.45	1,494.8	-1,885.5	3,851.3	3,772.9	49.126		
8,400.0	7,886.6	8,396.7	7,834.0	44.4	46.8	-87.45	1,494.8	-1,885.5	3,851.6	3,773.2	49.114		
8,500.0	7,986.6	8,396.7	7,834.0	44.4	46.8	-87.45	1,494.8	-1,885.5	3,854.3	3,775.9	49.158		
8,600.0	8,086.6	8,396.7	7,834.0	44.5	46.8	-87.45	1,494.8	-1,885.5	3,859.6	3,781.2	49.260		
8,700.0	8,186.6	8,396.7	7,834.0	44.5	46.8	-87.45	1,494.8	-1,885.5	3,867.4	3,789.1	49.420		
8,800.0	8,286.6	8,396.7	7,834.0	44.5	46.8	-87.45	1,494.8	-1,885.5	3,877.8	3,799.7	49.637		
8,900.0	8,386.6	8,396.7	7,834.0	44.5	46.8	-87.45	1,494.8	-1,885.5	3,890.7	3,812.8	49.911		
9,000.0	8,486.6	8,396.7	7,834.0	44.6	46.8	-87.45	1,494.8	-1,885.5	3,906.2	3,828.4	50.241		
9,100.0	8,586.6	8,396.7	7,834.0	44.6	46.8	-87.45	1,494.8	-1,885.5	3,924.1	3,846.6	50.626		
9,200.0	8,686.6	8,396.7	7,834.0	44.6	46.8	-87.45	1,494.8	-1,885.5	3,944.5	3,867.3	51.066		
9,222.4	8,709.0	8,396.7	7,834.0	44.6	46.8	-87.45	1,494.8	-1,885.5	3,949.4	3,872.3	51.174		

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 29-01 Fed 0993-21-15W - Slot A-10
<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 29-01 Fed 0993-21-15W	<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	Offset			Semi Major Axis		Highside	Offset Wellbore	Centre	Distance		Separation	Warning	
Measured	Vertical	Measured	Vertical	Reference	Offset				Between	Between			
Depth	Depth	Depth	Depth	(usft)	(usft)	Centres	Ellipses	(usft)	(usft)	Factor			
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S	+E/-W	(usft)	(usft)			
0.0	0.0	0.0	0.0	0.0	0.0	133.97	-5.5	5.7	7.9				
100.0	100.0	100.0	100.0	0.4	0.4	133.97	-5.5	5.7	7.9	7.1	9.927		
200.0	200.0	200.0	200.0	1.2	1.2	133.97	-5.5	5.7	7.9	5.4	3.183		
300.0	300.0	300.0	300.0	1.6	1.7	83.68	-5.5	5.7	7.7	4.5	2.412	Level 1	
326.6	326.6	326.6	326.6	1.9	1.8	90.00	-5.5	5.7	7.7	4.2	2.221	Level 1, CC, ES	
400.0	399.9	399.9	399.9	3.0	2.1	117.10	-5.5	5.7	8.6	4.3	2.012	Level 1, SF	
500.0	499.4	499.4	499.4	4.4	2.5	149.41	-5.5	5.7	15.2	8.8	2.372	Level 1	
600.0	598.5	597.7	597.7	5.4	3.1	166.80	-5.5	3.6	29.1	20.9	3.575		
700.0	696.9	693.7	693.5	6.3	4.3	176.39	-5.5	-2.5	51.4	41.3	5.087		
800.0	794.4	786.6	785.8	7.2	5.3	-178.27	-5.5	-12.2	81.8	70.0	6.942		
900.0	890.9	877.2	875.5	7.9	5.6	-174.78	-5.0	-25.1	119.4	106.6	9.309		
1,000.0	986.1	965.5	962.5	8.6	6.0	-171.80	-2.2	-40.2	162.4	148.5	11.683		
1,100.0	1,080.0	1,050.4	1,045.6	9.3	6.6	-169.21	2.6	-56.8	210.7	195.8	14.074		
1,200.0	1,172.2	1,131.5	1,124.4	9.9	7.1	-166.92	9.3	-74.8	264.1	248.1	16.552		
1,300.0	1,262.6	1,208.6	1,198.6	10.5	7.6	-164.93	17.6	-93.7	322.2	305.5	19.239		
1,400.0	1,352.4	1,282.8	1,269.5	10.7	8.1	-163.48	27.2	-113.5	382.9	365.6	22.103		
1,500.0	1,442.1	1,355.0	1,337.8	11.1	8.6	-162.08	38.1	-134.4	444.9	427.0	24.835		
1,600.0	1,531.8	1,425.2	1,403.4	11.4	9.0	-160.75	50.2	-156.0	508.2	489.7	27.457		
1,700.0	1,621.5	1,493.2	1,466.3	11.8	9.4	-159.49	63.3	-178.4	572.7	553.6	29.978		
1,800.0	1,711.3	1,559.1	1,526.5	12.1	9.8	-158.28	77.3	-201.2	638.5	618.8	32.401		
1,900.0	1,801.0	1,622.8	1,584.0	12.5	10.2	-157.14	92.0	-224.5	705.5	685.3	34.830		
2,000.0	1,890.7	1,693.4	1,647.1	12.9	10.4	-155.96	109.2	-251.0	773.5	752.6	37.092		
2,100.0	1,980.5	1,765.8	1,711.8	13.3	10.6	-154.94	126.9	-278.3	841.6	820.1	39.105		
2,200.0	2,070.2	1,838.3	1,776.6	13.7	10.9	-154.06	144.5	-305.6	909.8	887.6	40.955		
2,300.0	2,159.9	1,910.7	1,841.3	14.1	11.1	-153.31	162.2	-332.9	978.1	955.2	42.655		
2,400.0	2,249.6	1,983.1	1,906.0	14.6	11.4	-152.65	179.8	-360.1	1,046.6	1,022.9	44.210		
2,500.0	2,339.4	2,055.6	1,970.8	15.1	11.7	-152.08	197.5	-387.4	1,115.0	1,090.6	45.633		
2,600.0	2,429.1	2,128.0	2,035.5	15.8	12.0	-151.57	215.1	-414.7	1,183.6	1,158.4	46.942		
2,700.0	2,518.8	2,200.5	2,100.3	16.6	12.3	-151.11	232.8	-441.9	1,252.1	1,226.1	48.157		
2,800.0	2,608.5	2,272.9	2,165.0	17.4	12.7	-150.70	250.5	-469.2	1,320.8	1,294.0	49.282		
2,900.0	2,698.3	2,345.3	2,229.8	18.2	13.1	-150.34	268.1	-496.5	1,389.4	1,361.8	50.287		
3,000.0	2,788.0	2,417.8	2,294.5	19.0	13.5	-150.00	285.8	-523.8	1,458.1	1,429.6	51.225		
3,100.0	2,877.7	2,490.2	2,359.3	19.8	13.9	-149.70	303.4	-551.0	1,526.8	1,497.5	52.093		
3,200.0	2,967.5	2,562.6	2,424.0	20.6	14.4	-149.42	321.1	-578.3	1,595.5	1,565.3	52.895		
3,300.0	3,057.2	2,635.1	2,488.7	21.4	15.0	-149.17	338.7	-605.6	1,664.2	1,633.2	53.637		
3,400.0	3,146.9	2,707.5	2,553.5	22.2	15.5	-148.93	356.4	-632.8	1,733.0	1,701.1	54.326		
3,500.0	3,236.6	2,780.0	2,618.2	23.0	16.1	-148.71	374.0	-660.1	1,801.8	1,769.0	54.965		
3,600.0	3,326.4	2,852.4	2,683.0	23.8	16.7	-148.51	391.7	-687.4	1,870.5	1,836.9	55.558		
3,700.0	3,416.1	2,924.8	2,747.7	24.6	17.2	-148.33	409.4	-714.7	1,939.3	1,904.8	56.111		
3,800.0	3,505.8	2,997.3	2,812.5	25.4	17.8	-148.15	427.0	-741.9	2,008.1	1,972.7	56.627		
3,900.0	3,595.6	3,069.7	2,877.2	26.2	18.4	-147.99	444.7	-769.2	2,076.9	2,040.6	57.107		
4,000.0	3,685.3	3,142.1	2,941.9	27.0	19.0	-147.84	462.3	-796.5	2,145.8	2,108.5	57.557		
4,100.0	3,775.0	3,214.6	3,006.7	27.8	19.6	-147.69	480.0	-823.7	2,214.6	2,176.4	57.978		
4,200.0	3,864.7	3,287.0	3,071.4	28.6	20.2	-147.56	497.6	-851.0	2,283.4	2,244.3	58.372		
4,300.0	3,954.5	3,359.5	3,136.2	29.4	20.8	-147.43	515.3	-878.3	2,352.3	2,312.2	58.742		
4,400.0	4,044.2	3,431.9	3,200.9	30.3	21.4	-147.31	533.0	-905.6	2,421.1	2,380.1	59.089		
4,500.0	4,133.9	3,504.3	3,265.7	31.1	22.0	-147.20	550.6	-932.8	2,490.0	2,448.1	59.417		
4,600.0	4,223.7	3,576.8	3,330.4	31.9	22.6	-147.09	568.3	-960.1	2,558.8	2,516.0	59.724		
4,700.0	4,313.4	3,649.2	3,395.1	32.7	23.2	-146.99	585.9	-987.4	2,627.7	2,583.9	60.014		
4,800.0	4,403.1	3,721.7	3,459.9	33.5	23.8	-146.90	603.6	-1,014.6	2,696.5	2,651.8	60.288		
4,900.0	4,492.8	3,794.1	3,524.6	34.3	24.4	-146.81	621.2	-1,041.9	2,765.4	2,719.7	60.546		

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 29-01 Fed 0993-21-15W - Slot A-10
<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 29-01 Fed 0993-21-15W	<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		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance		Separation Factor	Warning	
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)				Between Centres (usft)	Between Ellipses (usft)			
5,000.0	4,582.6	3,866.5	3,589.4	35.1	25.0	-146.72	638.9	-1,069.2	2,834.3	2,787.7	60.790		
5,100.0	4,672.3	3,939.0	3,654.1	35.9	25.6	-146.64	656.6	-1,096.5	2,903.2	2,855.6	61.021		
5,200.0	4,762.0	4,011.4	3,718.9	36.7	26.3	-146.56	674.2	-1,123.7	2,972.0	2,923.5	61.240		
5,300.0	4,851.8	4,083.8	3,783.6	37.5	26.9	-146.48	691.9	-1,151.0	3,040.9	2,991.4	61.448		
5,400.0	4,941.5	4,156.3	3,848.4	38.3	27.5	-146.41	709.5	-1,178.3	3,109.8	3,059.4	61.645		
5,500.0	5,031.2	4,228.7	3,913.1	39.1	28.1	-146.34	727.2	-1,205.5	3,178.7	3,127.3	61.832		
5,600.0	5,121.0	4,301.2	3,977.9	39.9	28.7	-146.50	744.8	-1,232.8	3,247.5	3,195.2	62.014		
5,700.0	5,212.0	4,375.2	4,044.0	40.7	29.3	-147.63	762.9	-1,260.7	3,314.6	3,261.3	62.128		
5,800.0	5,304.7	4,451.5	4,112.2	41.3	30.0	-148.59	781.5	-1,289.4	3,378.9	3,324.6	62.138		
5,900.0	5,398.9	4,529.9	4,182.3	41.9	30.6	-149.40	800.6	-1,318.9	3,440.4	3,385.0	62.095		
6,000.0	5,494.5	4,610.2	4,254.0	42.5	31.3	-150.08	820.2	-1,349.2	3,498.8	3,442.4	62.004		
6,100.0	5,591.3	4,692.3	4,327.4	42.9	32.0	-150.64	840.2	-1,380.1	3,554.2	3,496.8	61.871		
6,200.0	5,689.1	4,776.0	4,402.3	43.3	32.7	-151.10	860.6	-1,411.6	3,606.5	3,548.0	61.703		
6,300.0	5,787.7	4,861.3	4,478.5	43.5	33.5	-151.45	881.4	-1,443.7	3,655.5	3,596.1	61.505		
6,400.0	5,887.0	4,947.8	4,555.8	43.8	34.2	-151.72	902.5	-1,476.3	3,701.3	3,640.9	61.285		
6,500.0	5,986.7	5,035.6	4,634.2	43.9	34.9	-151.90	923.8	-1,509.3	3,743.8	3,682.4	61.051		
6,600.0	6,086.6	5,124.3	4,713.5	44.0	35.7	-152.01	945.5	-1,542.7	3,782.8	3,720.6	60.825		
6,700.0	6,186.6	5,213.6	4,793.4	44.0	36.5	-95.75	967.2	-1,576.3	3,819.4	3,756.6	60.804		
6,800.0	6,286.6	5,302.0	4,873.6	44.0	37.1	-92.41	1,161.9	-1,877.0	3,842.4	3,767.5	51.295		
6,900.0	6,386.6	5,391.3	4,954.0	44.0	37.7	-92.41	1,161.9	-1,877.0	3,842.4	3,767.5	51.263		
7,000.0	6,486.6	5,480.6	5,034.4	44.1	38.2	-92.41	1,161.9	-1,877.0	3,842.4	3,767.4	51.231		
7,100.0	6,586.6	5,570.0	5,114.8	44.1	38.7	-92.41	1,161.9	-1,877.0	3,842.4	3,767.4	51.199		
7,200.0	6,686.6	5,659.4	5,195.2	44.1	39.2	-92.41	1,161.9	-1,877.0	3,842.4	3,767.3	51.167		
7,300.0	6,786.6	5,748.8	5,275.6	44.1	39.7	-92.41	1,161.9	-1,877.0	3,842.4	3,767.3	51.134		
7,400.0	6,886.6	5,838.2	5,356.0	44.2	40.2	-92.41	1,161.9	-1,877.0	3,842.4	3,767.2	51.101		
7,500.0	6,986.6	5,927.6	5,436.4	44.2	40.7	-92.41	1,161.9	-1,877.0	3,842.4	3,767.2	51.068		
7,600.0	7,086.6	6,017.0	5,516.8	44.2	41.2	-92.41	1,161.9	-1,877.0	3,842.4	3,767.1	51.035		
7,700.0	7,186.6	6,106.4	5,597.2	44.2	41.7	-92.41	1,161.9	-1,877.0	3,842.4	3,767.1	51.002		
7,800.0	7,286.6	6,195.8	5,677.6	44.3	42.2	-92.41	1,161.9	-1,877.0	3,842.4	3,767.0	50.968		
7,900.0	7,386.6	6,285.2	5,758.0	44.3	42.7	-92.41	1,161.9	-1,877.0	3,842.4	3,767.0	50.934		
8,000.0	7,486.6	6,374.6	5,838.4	44.3	43.2	-92.41	1,161.9	-1,877.0	3,842.4	3,766.9	50.901		
8,100.0	7,586.6	6,464.0	5,918.8	44.3	43.7	-92.41	1,161.9	-1,877.0	3,842.4	3,766.9	50.867		
8,200.0	7,686.6	6,553.4	6,000.0	44.4	44.2	-92.41	1,161.9	-1,877.0	3,842.4	3,766.8	50.832		
8,300.0	7,786.6	6,642.8	6,080.4	44.4	44.7	-92.41	1,161.9	-1,877.0	3,842.4	3,766.8	50.798		
8,400.0	7,886.6	6,732.2	6,160.8	44.4	45.2	-92.41	1,161.9	-1,877.0	3,842.4	3,766.7	50.763		
8,500.0	7,986.6	6,821.6	6,241.2	44.4	45.7	-92.41	1,161.9	-1,877.0	3,842.4	3,766.7	50.729		
8,600.0	8,086.6	6,911.0	6,321.6	44.5	46.2	-92.41	1,161.9	-1,877.0	3,842.4	3,766.6	50.694		
8,700.0	8,186.6	7,000.4	6,402.0	44.5	46.7	-92.41	1,161.9	-1,877.0	3,842.4	3,766.6	50.659		
8,800.0	8,286.6	7,089.8	6,482.4	44.5	47.2	-92.41	1,161.9	-1,877.0	3,842.4	3,766.5	50.624		
8,900.0	8,386.6	7,179.2	6,562.8	44.5	47.7	-92.41	1,161.9	-1,877.0	3,842.4	3,766.5	50.588		
9,000.0	8,486.6	7,268.6	6,643.2	44.6	48.2	-92.41	1,161.9	-1,877.0	3,842.4	3,766.4	50.553		
9,100.0	8,586.6	7,358.0	6,723.6	44.6	48.7	-92.41	1,161.9	-1,877.0	3,842.4	3,766.4	50.517		
9,109.8	8,596.4	7,367.8	6,733.4	44.6	48.7	-92.41	1,161.9	-1,877.0	3,842.4	3,766.3	50.514		
9,200.0	8,686.6	7,457.4	6,808.0	44.6	49.2	-92.41	1,161.9	-1,877.0	3,842.7	3,766.6	50.507		
9,222.4	8,709.0	7,471.8	6,822.4	44.6	49.3	-92.41	1,161.9	-1,877.0	3,843.0	3,766.9	50.518		

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 29-01 Fed 0993-21-15W - Slot A-10
<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 29-01 Fed 0993-21-15W	<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 Centre +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	133.51	-16.4	17.3	23.8				
100.0	100.0	100.0	100.0	0.4	0.4	133.51	-16.4	17.3	23.8	23.0	30.058		
200.0	200.0	200.0	200.0	1.2	1.2	133.51	-16.4	17.3	23.8	21.3	9.637		
300.0	300.0	300.0	300.0	1.6	1.7	79.38	-16.4	17.3	23.7	20.4	7.371		
400.0	399.9	400.2	400.2	3.0	2.1	93.87	-16.5	16.0	22.7	18.8	5.876		
422.4	422.2	422.6	422.5	3.3	2.4	100.04	-16.6	15.2	22.6	18.5	5.511	CC, ES	
500.0	499.4	499.3	499.2	4.4	3.5	127.28	-17.0	10.7	25.3	19.7	4.580	SF	
600.0	598.5	596.2	595.6	5.4	4.7	156.83	-17.8	1.3	40.3	31.7	4.677		
700.0	696.9	690.7	689.1	6.3	5.0	171.97	-18.6	-11.6	67.1	56.6	6.381		
800.0	794.4	782.9	780.0	7.2	5.5	-179.52	-17.5	-27.3	101.5	89.5	8.464		
900.0	890.9	871.7	867.0	7.9	6.1	-173.96	-14.2	-45.1	142.4	129.1	10.701		
1,000.0	986.1	956.8	949.6	8.6	6.7	-169.98	-9.1	-64.6	189.3	174.9	13.074		
1,100.0	1,080.0	1,037.6	1,027.4	9.3	7.3	-166.91	-2.5	-85.4	241.9	226.5	15.631		
1,200.0	1,172.2	1,114.0	1,100.3	9.9	7.8	-164.40	5.3	-107.0	299.8	283.4	18.292		
1,300.0	1,262.6	1,185.9	1,168.1	10.5	8.3	-162.34	14.0	-129.1	362.6	345.5	21.141		
1,400.0	1,352.4	1,254.5	1,232.2	10.7	8.7	-161.01	23.7	-151.6	428.1	410.4	24.160		
1,500.0	1,442.1	1,320.8	1,293.4	11.1	9.1	-159.79	34.1	-174.9	494.9	476.7	27.137		
1,600.0	1,531.8	1,391.2	1,357.9	11.4	9.3	-158.61	46.1	-200.6	562.9	544.1	30.039		
1,700.0	1,621.5	1,464.1	1,424.5	11.8	9.6	-157.64	58.6	-227.3	630.9	611.6	32.660		
1,800.0	1,711.3	1,537.0	1,491.2	12.1	9.8	-156.86	71.1	-254.0	699.1	679.1	35.077		
1,900.0	1,801.0	1,609.9	1,557.8	12.5	10.1	-156.21	83.5	-280.8	767.3	746.7	37.305		
2,000.0	1,890.7	1,682.8	1,624.5	12.9	10.4	-155.67	96.0	-307.5	835.5	814.3	39.350		
2,100.0	1,980.5	1,755.6	1,691.1	13.3	10.6	-155.21	108.5	-334.2	903.8	881.9	41.231		
2,200.0	2,070.2	1,828.5	1,757.8	13.7	10.9	-154.81	120.9	-360.9	972.1	949.5	42.964		
2,300.0	2,159.9	1,901.4	1,824.4	14.1	11.2	-154.47	133.4	-387.6	1,040.5	1,017.1	44.563		
2,400.0	2,249.6	1,974.3	1,891.1	14.6	11.5	-154.17	145.9	-414.3	1,108.8	1,084.7	46.016		
2,500.0	2,339.4	2,047.1	1,957.7	15.1	11.9	-153.90	158.4	-441.0	1,177.2	1,152.4	47.398		
2,600.0	2,429.1	2,120.0	2,024.4	15.8	12.2	-153.66	170.8	-467.7	1,245.6	1,220.0	48.634		
2,700.0	2,518.8	2,192.9	2,091.0	16.6	12.6	-153.45	183.3	-494.4	1,314.0	1,287.6	49.787		
2,800.0	2,608.5	2,265.8	2,157.7	17.4	12.9	-153.26	195.8	-521.1	1,382.4	1,355.2	50.852		
2,900.0	2,698.3	2,338.6	2,224.3	18.2	13.3	-153.09	208.2	-547.8	1,450.8	1,422.8	51.838		
3,000.0	2,788.0	2,411.5	2,291.0	19.0	13.8	-152.93	220.7	-574.5	1,519.2	1,490.4	52.754		
3,100.0	2,877.7	2,484.4	2,357.6	19.8	14.2	-152.78	233.2	-601.2	1,587.6	1,558.0	53.603		
3,200.0	2,967.5	2,557.3	2,424.3	20.6	14.7	-152.65	245.6	-627.9	1,656.0	1,625.6	54.392		
3,300.0	3,057.2	2,630.1	2,490.9	21.4	15.2	-152.53	258.1	-654.6	1,724.4	1,693.2	55.127		
3,400.0	3,146.9	2,703.0	2,557.6	22.2	15.7	-152.42	270.6	-681.4	1,792.9	1,760.7	55.813		
3,500.0	3,236.6	2,775.9	2,624.2	23.0	16.2	-152.31	283.1	-708.1	1,861.3	1,828.3	56.452		
3,600.0	3,326.4	2,848.8	2,690.9	23.8	16.8	-152.21	295.5	-734.8	1,929.7	1,895.9	57.050		
3,700.0	3,416.1	2,921.6	2,757.5	24.6	17.3	-152.12	308.0	-761.5	1,998.2	1,963.5	57.610		
3,800.0	3,505.8	2,994.5	2,824.2	25.4	17.8	-152.04	320.5	-788.2	2,066.6	2,031.1	58.134		
3,900.0	3,595.6	3,067.4	2,890.8	26.2	18.4	-151.96	332.9	-814.9	2,135.1	2,098.7	58.626		
4,000.0	3,685.3	3,140.3	2,957.4	27.0	18.9	-151.89	345.4	-841.6	2,203.5	2,166.2	59.088		
4,100.0	3,775.0	3,213.1	3,024.1	27.8	19.4	-151.82	357.9	-868.3	2,272.0	2,233.8	59.523		
4,200.0	3,864.7	3,286.0	3,090.7	28.6	20.0	-151.75	370.3	-895.0	2,340.4	2,301.4	59.932		
4,300.0	3,954.5	3,358.9	3,157.4	29.4	20.5	-151.69	382.8	-921.7	2,408.9	2,368.9	60.318		
4,400.0	4,044.2	3,431.8	3,224.0	30.3	21.1	-151.63	395.3	-948.4	2,477.3	2,436.5	60.682		
4,500.0	4,133.9	3,504.6	3,290.7	31.1	21.6	-151.57	407.8	-975.1	2,545.8	2,504.1	61.027		
4,600.0	4,223.7	3,577.5	3,357.3	31.9	22.2	-151.52	420.2	-1,001.8	2,614.2	2,571.6	61.352		
4,700.0	4,313.4	3,650.4	3,424.0	32.7	22.7	-151.47	432.7	-1,028.5	2,682.7	2,639.2	61.660		
4,800.0	4,403.1	3,723.3	3,490.6	33.5	23.3	-151.42	445.2	-1,055.2	2,751.1	2,706.7	61.952		
4,900.0	4,492.8	3,796.1	3,557.3	34.3	23.8	-151.38	457.6	-1,081.9	2,819.6	2,774.3	62.229		

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 29-01 Fed 0993-21-15W - Slot A-10
<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 29-01 Fed 0993-21-15W	<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		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance		Separation Factor	Warning	
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)				Between Centres (usft)	Between Ellipses (usft)			
5,000.0	4,582.6	3,869.0	3,623.9	35.1	24.4	-151.34	470.1	-1,108.7	2,888.1	2,841.8	62.491		
5,100.0	4,672.3	3,941.9	3,690.6	35.9	24.9	-151.30	482.6	-1,135.4	2,956.5	2,909.4	62.741		
5,200.0	4,762.0	4,014.8	3,757.2	36.7	25.5	-151.26	495.0	-1,162.1	3,025.0	2,977.0	62.978		
5,300.0	4,851.8	4,087.6	3,823.9	37.5	26.0	-151.22	507.5	-1,188.8	3,093.4	3,044.5	63.204		
5,400.0	4,941.5	4,160.5	3,890.5	38.3	26.6	-151.18	520.0	-1,215.5	3,161.9	3,112.1	63.419		
5,500.0	5,031.2	4,233.4	3,957.2	39.1	27.1	-151.15	532.5	-1,242.2	3,230.4	3,179.6	63.624		
5,600.0	5,121.0	4,306.3	4,023.9	39.9	27.7	-151.31	544.9	-1,268.9	3,298.8	3,247.1	63.824		
5,700.0	5,212.0	4,380.9	4,092.1	40.7	28.2	-152.30	557.7	-1,296.2	3,365.3	3,312.7	63.946		
5,800.0	5,304.7	4,457.9	4,162.5	41.3	28.8	-153.14	570.9	-1,324.4	3,429.0	3,375.3	63.945		
5,900.0	5,398.9	4,537.1	4,235.0	41.9	29.4	-153.85	584.4	-1,353.5	3,489.6	3,434.9	63.881		
6,000.0	5,494.5	4,618.5	4,309.4	42.5	30.0	-154.44	598.4	-1,383.3	3,547.0	3,491.4	63.762		
6,100.0	5,591.3	4,701.8	4,385.6	42.9	30.7	-154.92	612.6	-1,413.8	3,601.2	3,544.6	63.592		
6,200.0	5,689.1	4,786.9	4,463.4	43.3	31.3	-155.31	627.2	-1,445.0	3,652.1	3,594.5	63.379		
6,300.0	5,787.7	4,873.7	4,542.8	43.5	32.0	-155.61	642.0	-1,476.8	3,699.6	3,641.0	63.130		
6,400.0	5,887.0	4,961.9	4,623.4	43.8	32.7	-155.84	657.1	-1,509.2	3,743.6	3,684.0	62.851		
6,500.0	5,986.7	5,051.4	4,705.3	43.9	33.3	-155.99	672.4	-1,542.0	3,784.1	3,723.6	62.555		
6,600.0	6,086.6	5,142.1	4,788.2	44.0	34.0	-156.07	687.9	-1,575.2	3,821.0	3,759.6	62.264		
6,700.0	6,186.6	5,233.5	4,871.8	44.0	34.7	-99.85	703.6	-1,608.7	3,855.2	3,793.2	62.205		
6,800.0	6,286.6	6,698.3	6,286.6	44.0	40.4	-97.29	831.9	-1,883.6	3,876.9	3,803.8	53.102		
6,900.0	6,386.6	6,798.3	6,386.6	44.0	40.4	-97.29	831.9	-1,883.6	3,876.9	3,803.8	53.067		
7,000.0	6,486.6	6,898.3	6,486.6	44.1	40.5	-97.29	831.9	-1,883.6	3,876.9	3,803.7	53.032		
7,100.0	6,586.6	6,998.3	6,586.6	44.1	40.5	-97.29	831.9	-1,883.6	3,876.9	3,803.7	52.997		
7,200.0	6,686.6	7,098.3	6,686.6	44.1	40.5	-97.29	831.9	-1,883.6	3,876.9	3,803.7	52.961		
7,300.0	6,786.6	7,198.3	6,786.6	44.1	40.5	-97.29	831.9	-1,883.6	3,876.9	3,803.6	52.926		
7,400.0	6,886.6	7,298.3	6,886.6	44.2	40.6	-97.29	831.9	-1,883.6	3,876.9	3,803.6	52.890		
7,500.0	6,986.6	7,398.3	6,986.6	44.2	40.6	-97.29	831.9	-1,883.6	3,876.9	3,803.5	52.854		
7,600.0	7,086.6	7,498.3	7,086.6	44.2	40.6	-97.29	831.9	-1,883.6	3,876.9	3,803.5	52.818		
7,700.0	7,186.6	7,598.3	7,186.6	44.2	40.7	-97.29	831.9	-1,883.6	3,876.9	3,803.4	52.781		
7,800.0	7,286.6	7,698.3	7,286.6	44.3	40.7	-97.29	831.9	-1,883.6	3,876.9	3,803.3	52.745		
7,900.0	7,386.6	7,798.3	7,386.6	44.3	40.7	-97.29	831.9	-1,883.6	3,876.9	3,803.3	52.708		
8,000.0	7,486.6	7,898.3	7,486.6	44.3	40.7	-97.29	831.9	-1,883.6	3,876.9	3,803.2	52.671		
8,100.0	7,586.6	7,998.3	7,586.6	44.3	40.8	-97.29	831.9	-1,883.6	3,876.9	3,803.2	52.634		
8,200.0	7,686.6	8,098.3	7,686.6	44.4	40.8	-97.29	831.9	-1,883.6	3,876.9	3,803.1	52.597		
8,300.0	7,786.6	8,198.3	7,786.6	44.4	40.8	-97.29	831.9	-1,883.6	3,876.9	3,803.1	52.560		
8,400.0	7,886.6	8,228.7	7,817.0	44.4	40.8	-97.29	831.9	-1,883.6	3,877.5	3,803.7	52.580		
8,500.0	7,986.6	8,228.7	7,817.0	44.4	40.8	-97.29	831.9	-1,883.6	3,880.6	3,806.9	52.673		
8,600.0	8,086.6	8,228.7	7,817.0	44.5	40.8	-97.29	831.9	-1,883.6	3,886.2	3,812.7	52.829		
8,700.0	8,186.6	8,228.7	7,817.0	44.5	40.8	-97.29	831.9	-1,883.6	3,894.4	3,821.0	53.045		
8,800.0	8,286.6	8,228.7	7,817.0	44.5	40.8	-97.29	831.9	-1,883.6	3,905.2	3,832.0	53.322		
8,900.0	8,386.6	8,228.7	7,817.0	44.5	40.8	-97.29	831.9	-1,883.6	3,918.5	3,845.4	53.660		
9,000.0	8,486.6	8,228.7	7,817.0	44.6	40.8	-97.29	831.9	-1,883.6	3,934.3	3,861.5	54.057		
9,100.0	8,586.6	8,228.7	7,817.0	44.6	40.8	-97.29	831.9	-1,883.6	3,952.5	3,880.0	54.513		
9,200.0	8,686.6	8,228.7	7,817.0	44.6	40.8	-97.29	831.9	-1,883.6	3,973.2	3,901.0	55.026		
9,222.4	8,709.0	8,228.7	7,817.0	44.6	40.8	-97.29	831.9	-1,883.6	3,978.1	3,906.0	55.152		

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 29-01 Fed 0993-21-15W - Slot A-10
<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 29-01 Fed 0993-21-15W	<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	133.40	-27.3	28.9	39.8			
100.0	100.0	100.0	100.0	0.4	0.4	133.40	-27.3	28.9	39.8	39.0	50.189	
200.0	200.0	200.0	200.0	1.2	1.2	133.40	-27.3	28.9	39.8	37.3	16.091	
300.0	300.0	300.5	300.5	1.6	1.5	79.21	-27.4	28.3	39.3	36.3	13.258	
400.0	399.9	400.8	400.7	3.0	2.9	92.42	-28.3	24.0	37.0	33.1	9.499	
436.4	436.2	437.0	436.8	3.5	3.4	100.77	-28.9	21.4	36.6	32.4	8.771	CC, ES
500.0	499.4	499.4	498.9	4.4	4.3	118.70	-30.1	15.6	38.5	33.4	7.451	
600.0	598.5	595.3	594.0	5.4	5.3	145.56	-32.7	3.5	52.6	44.2	6.279	SF
700.0	696.9	689.4	686.8	6.3	5.6	162.79	-35.0	-12.0	79.4	68.6	7.364	
800.0	794.4	780.5	776.1	7.2	6.1	173.25	-35.2	-30.0	114.8	102.3	9.138	
900.0	890.9	867.9	861.1	7.9	6.7	-179.93	-33.6	-50.1	157.5	143.6	11.288	
1,000.0	986.1	951.0	941.3	8.6	7.3	-175.14	-30.3	-71.7	206.7	191.6	13.676	
1,100.0	1,080.0	1,029.6	1,016.4	9.3	7.8	-171.54	-25.7	-94.3	261.8	245.7	16.242	
1,200.0	1,172.2	1,100.0	1,083.1	9.9	8.3	-168.79	-20.4	-116.4	322.3	305.4	19.029	
1,300.0	1,262.6	1,172.5	1,151.0	10.5	8.7	-166.37	-13.6	-140.8	387.7	370.0	21.865	
1,400.0	1,352.4	1,240.9	1,214.4	10.7	9.0	-164.76	-6.2	-165.4	455.8	437.6	25.042	
1,500.0	1,442.1	1,313.3	1,281.3	11.1	9.2	-163.44	1.9	-191.8	524.2	505.5	28.033	
1,600.0	1,531.8	1,385.8	1,348.3	11.4	9.5	-162.41	10.0	-218.1	592.8	573.6	30.809	
1,700.0	1,621.5	1,458.2	1,415.3	11.8	9.7	-161.60	18.1	-244.5	661.4	641.6	33.385	
1,800.0	1,711.3	1,530.6	1,482.3	12.1	10.0	-160.94	26.2	-270.8	730.2	709.7	35.777	
1,900.0	1,801.0	1,603.0	1,549.2	12.5	10.3	-160.39	34.3	-297.2	798.9	777.9	37.994	
2,000.0	1,890.7	1,675.5	1,616.2	12.9	10.5	-159.93	42.4	-323.5	867.7	846.0	40.042	
2,100.0	1,980.5	1,747.9	1,683.2	13.3	10.8	-159.54	50.5	-349.8	936.5	914.2	41.938	
2,200.0	2,070.2	1,820.3	1,750.2	13.7	11.1	-159.20	58.6	-376.2	1,005.3	982.3	43.695	
2,300.0	2,159.9	1,892.7	1,817.1	14.1	11.4	-158.90	66.6	-402.5	1,074.2	1,050.5	45.321	
2,400.0	2,249.6	1,965.2	1,884.1	14.6	11.8	-158.64	74.7	-428.9	1,143.0	1,118.6	46.824	
2,500.0	2,339.4	2,037.6	1,951.1	15.1	12.1	-158.41	82.8	-455.2	1,211.9	1,186.8	48.218	
2,600.0	2,429.1	2,110.0	2,018.1	15.8	12.4	-158.21	90.9	-481.6	1,280.8	1,254.9	49.513	
2,700.0	2,518.8	2,182.4	2,085.0	16.6	12.8	-158.02	99.0	-507.9	1,349.7	1,323.0	50.713	
2,800.0	2,608.5	2,254.8	2,152.0	17.4	13.1	-157.85	107.1	-534.3	1,418.6	1,391.2	51.829	
2,900.0	2,698.3	2,327.3	2,219.0	18.2	13.5	-157.70	115.2	-560.6	1,487.4	1,459.3	52.868	
3,000.0	2,788.0	2,399.7	2,286.0	19.0	13.9	-157.56	123.3	-586.9	1,556.4	1,527.4	53.836	
3,100.0	2,877.7	2,472.1	2,352.9	19.8	14.3	-157.44	131.4	-613.3	1,625.3	1,595.6	54.738	
3,200.0	2,967.5	2,544.5	2,419.9	20.6	14.8	-157.32	139.5	-639.6	1,694.2	1,663.7	55.580	
3,300.0	3,057.2	2,617.0	2,486.9	21.4	15.2	-157.21	147.5	-666.0	1,763.1	1,731.8	56.368	
3,400.0	3,146.9	2,689.4	2,553.9	22.2	15.7	-157.11	155.6	-692.3	1,832.0	1,799.9	57.106	
3,500.0	3,236.6	2,761.8	2,620.8	23.0	16.2	-157.02	163.7	-718.7	1,900.9	1,868.0	57.796	
3,600.0	3,326.4	2,834.2	2,687.8	23.8	16.6	-156.94	171.8	-745.0	1,969.9	1,936.1	58.445	
3,700.0	3,416.1	2,906.7	2,754.8	24.6	17.1	-156.86	179.9	-771.4	2,038.8	2,004.3	59.054	
3,800.0	3,505.8	2,979.1	2,821.8	25.4	17.6	-156.78	188.0	-797.7	2,107.7	2,072.4	59.627	
3,900.0	3,595.6	3,051.5	2,888.7	26.2	18.1	-156.71	196.1	-824.1	2,176.6	2,140.5	60.166	
4,000.0	3,685.3	3,123.9	2,955.7	27.0	18.6	-156.65	204.2	-850.4	2,245.6	2,208.6	60.674	
4,100.0	3,775.0	3,196.4	3,022.7	27.8	19.1	-156.59	212.3	-876.7	2,314.5	2,276.7	61.154	
4,200.0	3,864.7	3,268.8	3,089.7	28.6	19.6	-156.53	220.4	-903.1	2,383.4	2,344.7	61.607	
4,300.0	3,954.5	3,341.2	3,156.6	29.4	20.1	-156.47	228.4	-929.4	2,452.4	2,412.8	62.035	
4,400.0	4,044.2	3,413.6	3,223.6	30.3	20.6	-156.42	236.5	-955.8	2,521.3	2,480.9	62.441	
4,500.0	4,133.9	3,486.0	3,290.6	31.1	21.1	-156.37	244.6	-982.1	2,590.2	2,549.0	62.825	
4,600.0	4,223.7	3,558.5	3,357.6	31.9	21.6	-156.32	252.7	-1,008.5	2,659.2	2,617.1	63.188	
4,700.0	4,313.4	3,630.9	3,424.5	32.7	22.1	-156.28	260.8	-1,034.8	2,728.1	2,685.2	63.534	
4,800.0	4,403.1	3,703.3	3,491.5	33.5	22.6	-156.24	268.9	-1,061.2	2,797.1	2,753.3	63.862	
4,900.0	4,492.8	3,775.7	3,558.5	34.3	23.1	-156.20	277.0	-1,087.5	2,866.0	2,821.3	64.174	

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 29-01 Fed 0993-21-15W - Slot A-10
<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 29-01 Fed 0993-21-15W	<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		Semi Major Axis		Highside Toolface (°)	Offset Wellbore +N/-S (usft)	Centre +E/-W (usft)	Distance		Separation Factor	Warning	
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)				Between Centres (usft)	Between Ellipses (usft)			
5,000.0	4,582.6	3,848.2	3,625.5	35.1	23.6	-156.16	285.1	-1,113.9	2,934.9	2,889.4	64.471		
5,100.0	4,672.3	3,920.6	3,692.4	35.9	24.1	-156.12	293.2	-1,140.2	3,003.9	2,957.5	64.753		
5,200.0	4,762.0	3,993.0	3,759.4	36.7	24.7	-156.09	301.3	-1,166.5	3,072.8	3,025.6	65.022		
5,300.0	4,851.8	4,065.4	3,826.4	37.5	25.2	-156.06	309.3	-1,192.9	3,141.8	3,093.6	65.279		
5,400.0	4,941.5	4,137.9	3,893.4	38.3	25.7	-156.02	317.4	-1,219.2	3,210.7	3,161.7	65.524		
5,500.0	5,031.2	4,210.3	3,960.3	39.1	26.2	-155.99	325.5	-1,245.6	3,279.7	3,229.8	65.758		
5,600.0	5,121.0	4,282.7	4,027.4	39.9	26.7	-156.13	333.6	-1,271.9	3,348.6	3,297.8	65.986		
5,700.0	5,212.0	4,357.0	4,096.0	40.7	27.2	-156.97	341.9	-1,298.9	3,415.5	3,363.9	66.125		
5,800.0	5,304.7	4,433.7	4,167.0	41.3	27.8	-157.69	350.5	-1,326.9	3,479.4	3,426.8	66.124		
5,900.0	5,398.9	4,512.9	4,240.2	41.9	28.3	-158.28	359.3	-1,355.7	3,540.2	3,486.6	66.051		
6,000.0	5,494.5	4,594.3	4,315.5	42.5	28.9	-158.78	368.4	-1,385.3	3,597.8	3,543.2	65.914		
6,100.0	5,591.3	4,677.9	4,392.8	42.9	29.5	-159.18	377.8	-1,415.7	3,651.9	3,596.4	65.719		
6,200.0	5,689.1	4,763.3	4,471.8	43.3	30.1	-159.51	387.3	-1,446.8	3,702.7	3,646.1	65.473		
6,300.0	5,787.7	4,850.6	4,552.5	43.5	30.7	-159.75	397.0	-1,478.5	3,749.9	3,692.4	65.185		
6,400.0	5,887.0	4,939.5	4,634.7	43.8	31.4	-159.94	407.0	-1,510.8	3,793.5	3,735.0	64.863		
6,500.0	5,986.7	5,029.8	4,718.2	43.9	32.0	-160.05	417.1	-1,543.7	3,833.4	3,774.0	64.519		
6,600.0	6,086.6	5,121.3	4,802.9	44.0	32.7	-160.11	427.3	-1,577.0	3,869.7	3,809.4	64.180		
6,700.0	6,186.6	5,213.8	4,888.3	44.0	33.3	-103.93	437.6	-1,610.6	3,903.1	3,842.2	64.103		
6,800.0	6,286.6	6,656.8	6,286.6	44.0	38.7	-101.79	521.3	-1,883.0	3,927.8	3,856.2	54.861		
6,900.0	6,386.6	6,756.8	6,386.6	44.0	38.8	-101.79	521.3	-1,883.0	3,927.8	3,856.2	54.824		
7,000.0	6,486.6	6,856.8	6,486.6	44.1	38.8	-101.79	521.3	-1,883.0	3,927.8	3,856.1	54.786		
7,100.0	6,586.6	6,956.8	6,586.6	44.1	38.8	-101.79	521.3	-1,883.0	3,927.8	3,856.1	54.749		
7,200.0	6,686.6	7,056.8	6,686.6	44.1	38.9	-101.79	521.3	-1,883.0	3,927.8	3,856.0	54.711		
7,300.0	6,786.6	7,156.8	6,786.6	44.1	38.9	-101.79	521.3	-1,883.0	3,927.8	3,856.0	54.673		
7,400.0	6,886.6	7,256.8	6,886.6	44.2	38.9	-101.79	521.3	-1,883.0	3,927.8	3,855.9	54.635		
7,500.0	6,986.6	7,356.8	6,986.6	44.2	38.9	-101.79	521.3	-1,883.0	3,927.8	3,855.9	54.596		
7,600.0	7,086.6	7,456.8	7,086.6	44.2	39.0	-101.79	521.3	-1,883.0	3,927.8	3,855.8	54.558		
7,700.0	7,186.6	7,556.8	7,186.6	44.2	39.0	-101.79	521.3	-1,883.0	3,927.8	3,855.8	54.519		
7,800.0	7,286.6	7,656.8	7,286.6	44.3	39.0	-101.79	521.3	-1,883.0	3,927.8	3,855.7	54.480		
7,900.0	7,386.6	7,756.8	7,386.6	44.3	39.1	-101.79	521.3	-1,883.0	3,927.8	3,855.7	54.441		
8,000.0	7,486.6	7,856.8	7,486.6	44.3	39.1	-101.79	521.3	-1,883.0	3,927.8	3,855.6	54.401		
8,100.0	7,586.6	7,956.8	7,586.6	44.3	39.1	-101.79	521.3	-1,883.0	3,927.8	3,855.6	54.362		
8,200.0	7,686.6	8,056.8	7,686.6	44.4	39.2	-101.79	521.3	-1,883.0	3,927.8	3,855.5	54.322		
8,300.0	7,786.6	8,156.8	7,786.6	44.4	39.2	-101.79	521.3	-1,883.0	3,927.8	3,855.5	54.282		
8,400.0	7,886.6	8,256.8	7,886.6	44.4	39.2	-101.79	521.3	-1,883.0	3,927.8	3,855.4	54.242		
8,500.0	7,986.6	8,356.8	7,986.6	44.4	39.2	-101.79	521.3	-1,883.0	3,927.8	3,855.4	54.201		
8,600.0	8,086.6	8,456.8	8,086.6	44.5	39.3	-101.79	521.3	-1,883.0	3,927.8	3,855.3	54.161		
8,700.0	8,186.6	8,556.8	8,186.6	44.5	39.3	-101.79	521.3	-1,883.0	3,927.8	3,855.3	54.120		
8,800.0	8,286.6	8,656.8	8,286.6	44.5	39.3	-101.79	521.3	-1,883.0	3,927.8	3,855.2	54.079		
8,900.0	8,386.6	8,756.8	8,386.6	44.5	39.4	-101.79	521.3	-1,883.0	3,927.8	3,855.1	54.038		
9,000.0	8,486.6	8,856.8	8,486.6	44.6	39.4	-101.79	521.3	-1,883.0	3,927.8	3,855.1	53.997		
9,100.0	8,586.6	8,956.8	8,586.6	44.6	39.4	-101.79	521.3	-1,883.0	3,927.8	3,855.0	53.958		
9,105.4	8,592.0	8,962.2	8,592.0	44.6	39.4	-101.79	521.3	-1,883.0	3,927.8	3,855.0	53.956		
9,200.0	8,686.6	8,996.2	8,626.0	44.6	39.4	-101.79	521.3	-1,883.0	3,928.3	3,855.5	53.965		
9,222.4	8,709.0	8,996.2	8,626.0	44.6	39.4	-101.79	521.3	-1,883.0	3,928.7	3,855.9	53.982		

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 29-01 Fed 0993-21-15W - Slot A-10
<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 29-01 Fed 0993-21-15W	<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 Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-46.67	44.1	-46.7	64.2			
100.0	100.0	100.0	100.0	0.4	0.4	-46.67	44.1	-46.7	64.2	63.4	81.087	
200.0	200.0	200.0	200.0	1.2	1.2	-46.67	44.1	-46.7	64.2	61.8	25.997	CC
300.0	300.0	299.5	299.5	1.6	1.7	-102.29	45.1	-46.1	64.7	61.7	21.533	ES
400.0	399.9	398.8	398.6	3.0	3.3	-101.75	49.8	-43.5	67.0	63.1	16.865	
500.0	499.4	497.9	497.3	4.4	4.5	-101.28	58.2	-38.7	71.4	66.5	14.647	
600.0	598.5	596.9	595.2	5.4	5.6	-100.89	70.2	-31.8	77.6	72.0	13.689	
700.0	696.9	695.6	692.3	6.3	6.4	-100.58	85.9	-22.9	85.9	79.4	13.338	
800.0	794.4	794.1	788.2	7.2	7.2	-100.33	105.2	-12.0	96.0	88.8	13.314	SF
900.0	890.9	892.2	882.8	7.9	8.0	-100.13	127.9	0.9	108.1	100.1	13.460	
1,000.0	986.1	989.9	975.8	8.6	8.7	-99.96	154.0	15.8	122.0	113.1	13.682	
1,100.0	1,080.0	1,087.3	1,067.1	9.3	9.3	-99.80	183.4	32.5	137.8	127.9	13.920	
1,200.0	1,172.2	1,184.1	1,156.4	9.9	9.9	-99.64	216.0	51.0	155.4	144.4	14.139	
1,300.0	1,262.6	1,280.5	1,243.6	10.5	10.5	-99.52	251.7	71.3	174.7	162.5	14.355	
1,400.0	1,352.4	1,376.5	1,328.6	10.7	11.1	-99.08	290.3	93.3	195.3	181.8	14.516	
1,500.0	1,442.1	1,471.7	1,411.1	11.1	11.7	-97.69	331.6	116.8	217.0	202.1	14.610	
1,600.0	1,531.8	1,566.0	1,490.8	11.4	12.1	-95.64	375.5	141.7	240.0	223.7	14.733	
1,700.0	1,621.5	1,662.6	1,571.4	11.8	12.4	-93.50	421.8	168.0	264.0	246.1	14.807	
1,800.0	1,711.3	1,759.3	1,652.0	12.1	12.7	-91.73	468.2	194.4	288.2	268.8	14.863	
1,900.0	1,801.0	1,856.0	1,732.7	12.5	13.0	-90.22	514.5	220.7	312.6	291.7	14.914	
2,000.0	1,890.7	1,952.6	1,813.3	12.9	13.4	-88.93	560.8	247.1	337.2	314.7	14.963	
2,100.0	1,980.5	2,049.3	1,894.0	13.3	13.7	-87.82	607.2	273.4	362.0	337.9	15.010	
2,200.0	2,070.2	2,146.0	1,974.6	13.7	14.1	-86.85	653.5	299.8	386.9	361.2	15.056	
2,300.0	2,159.9	2,242.6	2,055.3	14.1	14.5	-86.00	699.8	326.1	411.8	384.5	15.096	
2,400.0	2,249.6	2,339.3	2,135.9	14.6	14.9	-85.24	746.2	352.5	436.8	408.0	15.156	
2,500.0	2,339.4	2,435.9	2,216.5	15.1	15.7	-84.57	792.5	378.8	461.9	431.5	15.194	
2,600.0	2,429.1	2,532.6	2,297.2	15.8	16.7	-83.97	838.8	405.1	487.1	455.1	15.230	
2,700.0	2,518.8	2,629.3	2,377.8	16.6	17.6	-83.42	885.2	431.5	512.3	478.7	15.266	
2,800.0	2,608.5	2,725.9	2,458.5	17.4	18.5	-82.93	931.5	457.8	537.5	502.4	15.300	
2,900.0	2,698.3	2,822.6	2,539.1	18.2	19.4	-82.48	977.8	484.2	562.8	526.1	15.332	
3,000.0	2,788.0	2,919.3	2,619.7	19.0	20.3	-82.07	1,024.2	510.5	588.1	549.8	15.362	
3,100.0	2,877.7	3,015.9	2,700.4	19.8	21.2	-81.69	1,070.5	536.9	613.4	573.6	15.391	
3,200.0	2,967.5	3,112.6	2,781.0	20.6	22.1	-81.34	1,116.8	563.2	638.8	597.4	15.418	
3,300.0	3,057.2	3,209.3	2,861.7	21.4	23.0	-81.02	1,163.2	589.5	664.2	621.2	15.444	
3,400.0	3,146.9	3,305.9	2,942.3	22.2	23.9	-80.72	1,209.5	615.9	689.5	645.0	15.468	
3,500.0	3,236.6	3,402.6	3,023.0	23.0	24.9	-80.45	1,255.8	642.2	714.9	668.8	15.491	
3,600.0	3,326.4	3,499.2	3,103.6	23.8	25.8	-80.19	1,302.2	668.6	740.4	692.6	15.512	
3,700.0	3,416.1	3,595.9	3,184.2	24.6	26.7	-79.95	1,348.5	694.9	765.8	716.5	15.533	
3,800.0	3,505.8	3,692.6	3,264.9	25.4	27.6	-79.72	1,394.8	721.3	791.2	740.4	15.552	
3,900.0	3,595.6	3,789.2	3,345.5	26.2	28.5	-79.51	1,441.2	747.6	816.7	764.2	15.570	
4,000.0	3,685.3	3,885.9	3,426.2	27.0	29.4	-79.31	1,487.5	773.9	842.2	788.1	15.587	
4,100.0	3,775.0	3,982.6	3,506.8	27.8	30.4	-79.13	1,533.8	800.3	867.6	812.0	15.604	
4,200.0	3,864.7	4,079.2	3,587.4	28.6	31.3	-78.95	1,580.2	826.6	893.1	835.9	15.619	
4,300.0	3,954.5	4,175.9	3,668.1	29.4	32.2	-78.79	1,626.5	853.0	918.6	859.9	15.634	
4,400.0	4,044.2	4,272.6	3,748.7	30.3	33.1	-78.63	1,672.8	879.3	944.1	883.8	15.648	
4,500.0	4,133.9	4,369.2	3,829.4	31.1	34.0	-78.48	1,719.2	905.7	969.6	907.7	15.661	
4,600.0	4,223.7	4,465.9	3,910.0	31.9	35.0	-78.34	1,765.5	932.0	995.1	931.6	15.674	
4,700.0	4,313.4	4,562.5	3,990.7	32.7	35.9	-78.20	1,811.8	958.3	1,020.6	955.6	15.686	
4,800.0	4,403.1	4,659.2	4,071.3	33.5	36.8	-78.08	1,858.2	984.7	1,046.2	979.5	15.698	
4,900.0	4,492.8	4,755.9	4,151.9	34.3	37.7	-77.96	1,904.5	1,011.0	1,071.7	1,003.5	15.709	
5,000.0	4,582.6	4,852.5	4,232.6	35.1	38.6	-77.84	1,950.8	1,037.4	1,097.2	1,027.4	15.720	

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 29-01 Fed 0993-21-15W - Slot A-10
<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 29-01 Fed 0993-21-15W	<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
Laramie 0993-29-01 - Laramie 29-01 Fed 0993-21-11W - 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		Highside Toolface (°)	Offset Wellbore Centre +N-S (usft)	Offset Wellbore Centre +E-W (usft)	Distance		Separation Factor	Warning
				Reference (usft)	Offset (usft)				Between Centres (usft)	Between Ellipses (usft)		
5,100.0	4,672.3	4,949.2	4,313.2	35.9	39.6	-77.73	1,997.2	1,063.7	1,122.7	1,051.4	15.730	
5,200.0	4,762.0	5,045.9	4,393.9	36.7	40.5	-77.62	2,043.5	1,090.1	1,148.3	1,075.3	15.740	
5,300.0	4,851.8	5,142.5	4,474.5	37.5	41.4	-77.52	2,089.8	1,116.4	1,173.8	1,099.3	15.749	
5,400.0	4,941.5	5,239.2	4,555.1	38.3	42.3	-77.43	2,136.2	1,142.7	1,199.4	1,123.2	15.758	
5,500.0	5,031.2	5,335.9	4,635.8	39.1	43.2	-77.33	2,182.5	1,169.1	1,224.9	1,147.2	15.766	
5,600.0	5,121.0	5,432.5	4,716.4	39.9	44.2	-77.35	2,228.8	1,195.4	1,250.5	1,171.2	15.776	
5,700.0	5,212.0	5,528.9	4,796.8	40.7	45.1	-77.80	2,275.0	1,221.7	1,276.6	1,195.9	15.808	
5,800.0	5,304.7	5,643.4	4,892.8	41.3	46.2	-78.01	2,329.5	1,252.6	1,303.5	1,221.0	15.811	
5,900.0	5,398.9	5,790.4	5,019.7	41.9	47.4	-78.06	2,393.8	1,289.2	1,328.3	1,243.8	15.722	
6,000.0	5,494.5	5,940.5	5,153.9	42.5	48.6	-78.10	2,452.1	1,322.3	1,350.3	1,264.0	15.646	
6,100.0	5,591.3	6,093.5	5,295.1	42.9	49.6	-78.14	2,503.5	1,351.6	1,369.3	1,281.4	15.583	
6,200.0	5,689.1	6,249.2	5,442.3	43.3	50.4	-78.17	2,547.3	1,376.5	1,385.2	1,296.0	15.539	
6,300.0	5,787.7	6,407.0	5,594.8	43.5	51.1	-78.19	2,582.7	1,396.6	1,397.8	1,307.7	15.509	
6,400.0	5,887.0	6,566.6	5,751.4	43.8	51.7	-78.22	2,609.2	1,411.7	1,407.1	1,316.3	15.501	
6,500.0	5,986.7	6,727.4	5,911.0	43.9	52.0	-78.24	2,626.2	1,421.3	1,413.0	1,321.9	15.509	
6,600.0	6,086.6	6,888.9	6,072.2	44.0	52.2	-78.26	2,633.4	1,425.5	1,415.5	1,324.4	15.538	
6,700.0	6,186.6	7,003.3	6,186.6	44.0	52.2	-22.27	2,633.7	1,425.6	1,415.6	1,324.5	15.547	
6,800.0	6,286.6	7,103.3	6,286.6	44.0	52.2	-22.27	2,633.7	1,425.6	1,415.6	1,324.5	15.539	
6,900.0	6,386.6	7,203.3	6,386.6	44.0	52.2	-22.27	2,633.7	1,425.6	1,415.6	1,324.5	15.531	
7,000.0	6,486.6	7,303.3	6,486.6	44.1	52.2	-22.27	2,633.7	1,425.6	1,415.6	1,324.4	15.523	
7,100.0	6,586.6	7,403.3	6,586.6	44.1	52.2	-22.27	2,633.7	1,425.6	1,415.6	1,324.4	15.515	
7,200.0	6,686.6	7,503.3	6,686.6	44.1	52.3	-22.27	2,633.7	1,425.6	1,415.6	1,324.3	15.507	
7,300.0	6,786.6	7,603.3	6,786.6	44.1	52.3	-22.27	2,633.7	1,425.6	1,415.6	1,324.3	15.499	
7,400.0	6,886.6	7,703.3	6,886.6	44.2	52.3	-22.27	2,633.7	1,425.6	1,415.6	1,324.2	15.490	
7,500.0	6,986.6	7,803.3	6,986.6	44.2	52.3	-22.27	2,633.7	1,425.6	1,415.6	1,324.2	15.482	
7,600.0	7,086.6	7,903.3	7,086.6	44.2	52.3	-22.27	2,633.7	1,425.6	1,415.6	1,324.1	15.474	
7,700.0	7,186.6	8,003.3	7,186.6	44.2	52.3	-22.27	2,633.7	1,425.6	1,415.6	1,324.1	15.466	
7,800.0	7,286.6	8,103.3	7,286.6	44.3	52.4	-22.27	2,633.7	1,425.6	1,415.6	1,324.0	15.457	
7,900.0	7,386.6	8,203.3	7,386.6	44.3	52.4	-22.27	2,633.7	1,425.6	1,415.6	1,324.0	15.449	
8,000.0	7,486.6	8,303.3	7,486.6	44.3	52.4	-22.27	2,633.7	1,425.6	1,415.6	1,323.9	15.441	
8,100.0	7,586.6	8,403.3	7,586.6	44.3	52.4	-22.27	2,633.7	1,425.6	1,415.6	1,323.9	15.432	
8,200.0	7,686.6	8,503.3	7,686.6	44.4	52.4	-22.27	2,633.7	1,425.6	1,415.6	1,323.8	15.424	
8,300.0	7,786.6	8,603.3	7,786.6	44.4	52.4	-22.27	2,633.7	1,425.6	1,415.6	1,323.8	15.415	
8,400.0	7,886.6	8,703.3	7,886.6	44.4	52.5	-22.27	2,633.7	1,425.6	1,415.6	1,323.7	15.407	
8,500.0	7,986.6	8,803.3	7,986.6	44.4	52.5	-22.27	2,633.7	1,425.6	1,415.6	1,323.7	15.398	
8,600.0	8,086.6	8,903.3	8,086.6	44.5	52.5	-22.27	2,633.7	1,425.6	1,415.6	1,323.6	15.389	
8,700.0	8,186.6	9,003.3	8,186.6	44.5	52.5	-22.27	2,633.7	1,425.6	1,415.6	1,323.6	15.381	
8,800.0	8,286.6	9,103.3	8,286.6	44.5	52.5	-22.27	2,633.7	1,425.6	1,415.6	1,323.5	15.372	
8,900.0	8,386.6	9,203.3	8,386.6	44.5	52.5	-22.27	2,633.7	1,425.6	1,415.6	1,323.5	15.363	
9,000.0	8,486.6	9,303.3	8,486.6	44.6	52.6	-22.27	2,633.7	1,425.6	1,415.6	1,323.4	15.355	
9,100.0	8,586.6	9,403.3	8,586.6	44.6	52.6	-22.27	2,633.7	1,425.6	1,415.6	1,323.4	15.346	
9,200.0	8,686.6	9,503.3	8,686.6	44.6	52.6	-22.27	2,633.7	1,425.6	1,415.6	1,323.3	15.337	
9,200.3	8,686.9	9,503.6	8,686.9	44.6	52.6	-22.27	2,633.7	1,425.6	1,415.6	1,323.3	15.337	
9,222.4	8,709.0	9,518.7	8,702.0	44.6	52.6	-22.27	2,633.7	1,425.6	1,415.6	1,323.3	15.328	

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 29-01 Fed 0993-21-15W - Slot A-10
<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 29-01 Fed 0993-21-15W	<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 Centre +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	33.0	-35.1	48.1					
100.0	100.0	100.0	100.0	0.4	0.4	-46.79	33.0	-35.1	48.1	47.3	60.778			
200.0	200.0	200.0	200.0	1.2	1.2	-46.79	33.0	-35.1	48.1	45.7	19.486	CC		
300.0	300.0	299.6	299.6	1.6	2.4	-101.15	34.7	-33.9	48.7	45.4	15.008	ES		
400.0	399.9	399.2	398.9	3.0	3.9	-99.19	40.1	-30.2	50.8	46.6	12.205			
500.0	499.4	498.6	497.7	4.4	5.0	-97.47	49.0	-24.1	54.6	49.6	10.928			
600.0	598.5	597.8	595.8	5.4	6.0	-96.08	61.4	-15.6	60.1	54.3	10.413			
700.0	696.9	696.8	692.9	6.3	6.8	-95.03	77.2	-4.8	67.2	60.6	10.290	SF		
800.0	794.4	795.5	788.9	7.2	7.6	-94.28	96.5	8.4	75.8	68.5	10.383			
900.0	890.9	894.0	883.4	7.9	8.3	-93.77	119.0	23.8	86.1	77.9	10.590			
1,000.0	986.1	992.2	976.5	8.6	9.0	-93.45	144.8	41.5	97.8	88.8	10.841			
1,100.0	1,080.0	1,090.0	1,067.8	9.3	9.6	-93.24	173.8	61.3	111.1	101.0	11.092			
1,200.0	1,172.2	1,187.4	1,157.2	9.9	10.2	-93.11	205.8	83.2	125.8	114.7	11.315			
1,300.0	1,262.6	1,284.5	1,244.5	10.5	10.8	-93.07	240.8	107.1	141.9	129.6	11.519			
1,400.0	1,352.4	1,381.2	1,329.6	10.7	11.4	-92.49	278.6	133.0	159.3	145.7	11.644			
1,500.0	1,442.1	1,478.9	1,414.1	11.1	11.8	-91.08	319.0	160.7	177.7	162.5	11.722			
1,600.0	1,531.8	1,577.1	1,499.1	11.4	12.2	-89.89	359.7	188.5	196.2	179.5	11.779			
1,700.0	1,621.5	1,675.3	1,584.0	11.8	12.5	-88.90	400.5	216.4	214.7	196.6	11.821			
1,800.0	1,711.3	1,773.5	1,668.9	12.1	12.8	-88.08	441.2	244.3	233.3	213.6	11.852			
1,900.0	1,801.0	1,871.7	1,753.8	12.5	13.2	-87.37	481.9	272.1	252.0	230.7	11.875			
2,000.0	1,890.7	1,969.9	1,838.7	12.9	13.5	-86.76	522.6	300.0	270.6	247.9	11.892			
2,100.0	1,980.5	2,068.1	1,923.6	13.3	13.9	-86.23	563.3	327.8	289.3	265.0	11.906			
2,200.0	2,070.2	2,166.3	2,008.6	13.7	14.3	-85.77	604.0	355.7	308.0	282.2	11.916			
2,300.0	2,159.9	2,264.5	2,093.5	14.1	14.7	-85.35	644.7	383.5	326.8	299.4	11.923			
2,400.0	2,249.6	2,362.7	2,178.4	14.6	15.1	-84.99	685.4	411.4	345.5	316.5	11.925			
2,500.0	2,339.4	2,460.9	2,263.3	15.1	15.6	-84.66	726.1	439.3	364.3	333.8	11.954			
2,600.0	2,429.1	2,559.1	2,348.2	15.8	16.4	-84.36	766.8	467.1	383.1	351.0	11.943			
2,700.0	2,518.8	2,657.3	2,433.1	16.6	17.3	-84.09	807.5	495.0	401.8	368.2	11.944			
2,800.0	2,608.5	2,755.5	2,518.1	17.4	18.1	-83.84	848.2	522.8	420.6	385.4	11.946			
2,900.0	2,698.3	2,853.7	2,603.0	18.2	19.0	-83.62	888.9	550.7	439.4	402.6	11.947			
3,000.0	2,788.0	2,951.9	2,687.9	19.0	19.8	-83.41	929.6	578.5	458.2	419.9	11.947			
3,100.0	2,877.7	3,050.1	2,772.8	19.8	20.7	-83.22	970.3	606.4	477.0	437.1	11.948			
3,200.0	2,967.5	3,148.3	2,857.7	20.6	21.5	-83.05	1,011.0	634.3	495.8	454.3	11.947			
3,300.0	3,057.2	3,246.6	2,942.7	21.4	22.4	-82.89	1,051.7	662.1	514.7	471.6	11.947			
3,400.0	3,146.9	3,344.8	3,027.6	22.2	23.2	-82.73	1,092.4	690.0	533.5	488.8	11.947			
3,500.0	3,236.6	3,443.0	3,112.5	23.0	24.1	-82.59	1,133.2	717.8	552.3	506.1	11.946			
3,600.0	3,326.4	3,541.2	3,197.4	23.8	24.9	-82.46	1,173.9	745.7	571.1	523.3	11.945			
3,700.0	3,416.1	3,639.4	3,282.3	24.6	25.8	-82.34	1,214.6	773.5	590.0	540.6	11.944			
3,800.0	3,505.8	3,737.6	3,367.2	25.4	26.6	-82.22	1,255.3	801.4	608.8	557.8	11.943			
3,900.0	3,595.6	3,835.8	3,452.2	26.2	27.5	-82.11	1,296.0	829.3	627.6	575.1	11.942			
4,000.0	3,685.3	3,934.0	3,537.1	27.0	28.4	-82.01	1,336.7	857.1	646.5	592.3	11.941			
4,100.0	3,775.0	4,032.2	3,622.0	27.8	29.2	-81.92	1,377.4	885.0	665.3	609.6	11.940			
4,200.0	3,864.7	4,130.4	3,706.9	28.6	30.1	-81.82	1,418.1	912.8	684.1	626.8	11.939			
4,300.0	3,954.5	4,228.6	3,791.8	29.4	30.9	-81.74	1,458.8	940.7	703.0	644.1	11.937			
4,400.0	4,044.2	4,326.8	3,876.7	30.3	31.8	-81.66	1,499.5	968.5	721.8	661.3	11.936			
4,500.0	4,133.9	4,425.0	3,961.7	31.1	32.6	-81.58	1,540.2	996.4	740.7	678.6	11.935			
4,600.0	4,223.7	4,523.2	4,046.6	31.9	33.5	-81.51	1,580.9	1,024.2	759.5	695.9	11.933			
4,700.0	4,313.4	4,621.4	4,131.5	32.7	34.3	-81.43	1,621.6	1,052.1	778.4	713.1	11.932			
4,800.0	4,403.1	4,719.6	4,216.4	33.5	35.2	-81.37	1,662.3	1,080.0	797.2	730.4	11.931			
4,900.0	4,492.8	4,817.8	4,301.3	34.3	36.1	-81.30	1,703.0	1,107.8	816.1	747.6	11.930			
5,000.0	4,582.6	4,916.0	4,386.3	35.1	36.9	-81.24	1,743.7	1,135.7	834.9	764.9	11.928			

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 29-01 Fed 0993-21-15W - Slot A-10
<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 29-01 Fed 0993-21-15W	<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
Laramie 0993-29-01 - Laramie 29-01 Fed 0993-21-12W - 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 Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning
5,100.0	4,672.3	5,014.2	4,471.2	35.9	37.8	-81.19	1,784.4	1,163.5	853.7	782.2	11.927	
5,200.0	4,762.0	5,112.4	4,556.1	36.7	38.6	-81.13	1,825.1	1,191.4	872.6	799.4	11.926	
5,300.0	4,851.8	5,210.6	4,641.0	37.5	39.5	-81.08	1,865.9	1,219.2	891.5	816.7	11.924	
5,400.0	4,941.5	5,308.8	4,725.9	38.3	40.4	-81.02	1,906.6	1,247.1	910.3	834.0	11.923	
5,500.0	5,031.2	5,407.0	4,810.8	39.1	41.2	-80.98	1,947.3	1,275.0	929.2	851.2	11.922	
5,600.0	5,121.0	5,505.2	4,895.8	39.9	42.1	-81.01	1,988.0	1,302.8	948.0	868.5	11.922	
5,700.0	5,212.0	5,609.3	4,985.8	40.7	43.0	-81.26	2,031.0	1,332.2	967.3	886.1	11.924	
5,800.0	5,304.7	5,732.7	5,094.9	41.3	44.0	-81.39	2,078.5	1,364.8	985.4	902.5	11.889	
5,900.0	5,398.9	5,857.3	5,208.1	41.9	44.9	-81.50	2,121.6	1,394.3	1,001.6	917.1	11.858	
6,000.0	5,494.5	5,983.1	5,325.0	42.5	45.7	-81.60	2,159.9	1,420.5	1,015.8	930.0	11.831	
6,100.0	5,591.3	6,109.9	5,445.2	42.9	46.4	-81.69	2,193.0	1,443.1	1,028.1	941.0	11.811	
6,200.0	5,689.1	6,237.6	5,568.4	43.3	46.9	-81.77	2,220.8	1,462.2	1,038.3	950.2	11.798	
6,300.0	5,787.7	6,366.0	5,693.9	43.5	47.4	-81.83	2,243.0	1,477.3	1,046.3	957.6	11.789	
6,400.0	5,887.0	6,494.9	5,821.3	43.8	47.7	-81.89	2,259.4	1,488.6	1,052.3	963.0	11.786	
6,500.0	5,986.7	6,624.2	5,950.0	43.9	48.0	-81.92	2,269.9	1,495.8	1,056.0	966.4	11.788	
6,600.0	6,086.6	6,753.8	6,079.4	44.0	48.1	-81.95	2,274.4	1,498.8	1,057.6	968.0	11.797	
6,700.0	6,186.6	6,861.0	6,186.6	44.0	48.1	-25.96	2,274.6	1,499.0	1,057.7	968.0	11.796	
6,800.0	6,286.6	6,961.0	6,286.6	44.0	48.1	-25.96	2,274.6	1,499.0	1,057.7	968.0	11.790	
6,900.0	6,386.6	7,061.0	6,386.6	44.0	48.1	-25.96	2,274.6	1,499.0	1,057.7	967.9	11.784	
7,000.0	6,486.6	7,161.0	6,486.6	44.1	48.1	-25.96	2,274.6	1,499.0	1,057.7	967.9	11.778	
7,100.0	6,586.6	7,261.0	6,586.6	44.1	48.2	-25.96	2,274.6	1,499.0	1,057.7	967.8	11.771	
7,200.0	6,686.6	7,361.0	6,686.6	44.1	48.2	-25.96	2,274.6	1,499.0	1,057.7	967.8	11.765	
7,300.0	6,786.6	7,461.0	6,786.6	44.1	48.2	-25.96	2,274.6	1,499.0	1,057.7	967.7	11.759	
7,400.0	6,886.6	7,561.0	6,886.6	44.2	48.2	-25.96	2,274.6	1,499.0	1,057.7	967.7	11.752	
7,500.0	6,986.6	7,661.0	6,986.6	44.2	48.2	-25.96	2,274.6	1,499.0	1,057.7	967.6	11.746	
7,600.0	7,086.6	7,761.0	7,086.6	44.2	48.3	-25.96	2,274.6	1,499.0	1,057.7	967.6	11.740	
7,700.0	7,186.6	7,861.0	7,186.6	44.2	48.3	-25.96	2,274.6	1,499.0	1,057.7	967.5	11.733	
7,800.0	7,286.6	7,961.0	7,286.6	44.3	48.3	-25.96	2,274.6	1,499.0	1,057.7	967.5	11.727	
7,900.0	7,386.6	8,061.0	7,386.6	44.3	48.3	-25.96	2,274.6	1,499.0	1,057.7	967.4	11.720	
8,000.0	7,486.6	8,161.0	7,486.6	44.3	48.3	-25.96	2,274.6	1,499.0	1,057.7	967.4	11.714	
8,100.0	7,586.6	8,261.0	7,586.6	44.3	48.4	-25.96	2,274.6	1,499.0	1,057.7	967.3	11.707	
8,200.0	7,686.6	8,361.0	7,686.6	44.4	48.4	-25.96	2,274.6	1,499.0	1,057.7	967.3	11.701	
8,300.0	7,786.6	8,461.0	7,786.6	44.4	48.4	-25.96	2,274.6	1,499.0	1,057.7	967.2	11.694	
8,316.5	7,803.1	8,477.5	7,803.1	44.4	48.4	-25.96	2,274.6	1,499.0	1,057.7	967.2	11.693	
8,400.0	7,886.6	8,560.4	7,886.0	44.4	48.4	-25.96	2,274.6	1,499.0	1,057.7	967.2	11.687	
8,500.0	7,986.6	8,560.4	7,886.0	44.4	48.4	-25.96	2,274.6	1,499.0	1,062.4	971.5	11.682	
8,600.0	8,086.6	8,560.4	7,886.0	44.5	48.4	-25.96	2,274.6	1,499.0	1,076.5	985.8	11.860	
8,700.0	8,186.6	8,560.4	7,886.0	44.5	48.4	-25.96	2,274.6	1,499.0	1,099.6	1,009.6	12.216	
8,800.0	8,286.6	8,560.4	7,886.0	44.5	48.4	-25.96	2,274.6	1,499.0	1,131.0	1,042.2	12.741	
8,900.0	8,386.6	8,560.4	7,886.0	44.5	48.4	-25.96	2,274.6	1,499.0	1,170.2	1,083.0	13.426	
9,000.0	8,486.6	8,560.4	7,886.0	44.6	48.4	-25.96	2,274.6	1,499.0	1,216.3	1,131.0	14.261	
9,100.0	8,586.6	8,560.4	7,886.0	44.6	48.4	-25.96	2,274.6	1,499.0	1,268.7	1,185.4	15.233	
9,200.0	8,686.6	8,560.4	7,886.0	44.6	48.4	-25.96	2,274.6	1,499.0	1,326.5	1,245.3	16.333	
9,222.4	8,709.0	8,560.4	7,886.0	44.6	48.4	-25.96	2,274.6	1,499.0	1,340.1	1,259.4	16.596	

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 29-01 Fed 0993-21-15W - Slot A-10
<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 29-01 Fed 0993-21-15W	<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 Centre +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	-47.08	21.9	-23.5	32.1			
100.0	100.0	100.0	100.0	0.4	0.4	-47.08	21.9	-23.5	32.1	31.3	40.523	
200.0	200.0	200.0	200.0	1.2	1.2	-47.08	21.9	-23.5	32.1	29.6	12.992	CC
204.3	204.3	204.3	204.3	1.2	1.3	-103.08	21.9	-23.5	32.1	29.6	12.753	
300.0	300.0	300.0	300.0	1.6	2.3	-100.56	23.4	-21.9	32.2	29.0	10.091	ES
400.0	399.9	400.0	399.7	3.0	3.9	-97.37	27.9	-17.3	33.1	29.1	8.224	
500.0	499.4	499.8	499.0	4.4	5.0	-94.37	35.5	-9.5	34.9	30.1	7.303	
600.0	598.5	599.6	597.6	5.4	6.0	-91.72	46.1	1.4	37.5	32.0	6.821	
700.0	696.9	699.2	695.3	6.3	6.8	-89.52	59.7	15.3	41.0	34.7	6.552	
800.0	794.4	798.8	792.0	7.2	7.6	-87.78	76.2	32.2	45.2	38.2	6.405	
900.0	890.9	898.2	887.4	7.9	8.3	-86.47	95.5	52.0	50.3	42.3	6.331	
1,000.0	986.1	997.5	981.5	8.6	9.0	-85.51	117.8	74.8	56.0	47.1	6.298	
1,100.0	1,080.0	1,096.6	1,073.9	9.3	9.6	-84.84	142.8	100.5	62.6	52.6	6.284	
1,200.0	1,172.2	1,195.6	1,164.6	9.9	10.3	-84.40	170.5	128.9	69.8	58.7	6.273	
1,300.0	1,262.6	1,294.5	1,253.3	10.5	10.9	-84.13	200.9	160.1	77.7	65.3	6.269	
1,400.0	1,352.4	1,393.1	1,339.9	10.7	11.4	-82.42	233.8	193.8	86.6	72.7	6.229	
1,500.0	1,442.1	1,491.9	1,424.9	11.1	11.8	-78.99	269.0	229.9	96.7	81.2	6.210	
1,600.0	1,531.8	1,591.2	1,510.1	11.4	12.1	-76.00	304.7	266.5	107.3	90.0	6.208	SF
1,700.0	1,621.5	1,690.5	1,595.3	11.8	12.4	-73.55	340.3	303.0	118.1	99.2	6.230	
1,800.0	1,711.3	1,789.8	1,680.5	12.1	12.7	-71.52	375.9	339.5	129.2	108.6	6.269	
1,900.0	1,801.0	1,889.1	1,765.6	12.5	13.1	-69.80	411.5	376.0	140.3	118.1	6.318	
2,000.0	1,890.7	1,988.4	1,850.8	12.9	13.5	-68.34	447.2	412.6	151.5	127.8	6.371	
2,100.0	1,980.5	2,087.7	1,936.0	13.3	13.8	-67.08	482.8	449.1	162.9	137.5	6.426	
2,200.0	2,070.2	2,187.0	2,021.2	13.7	14.2	-65.98	518.4	485.6	174.3	147.4	6.480	
2,300.0	2,159.9	2,286.3	2,106.4	14.1	14.7	-65.02	554.0	522.2	185.7	157.3	6.533	
2,400.0	2,249.6	2,385.6	2,191.6	14.6	15.5	-64.17	589.7	558.7	197.2	167.3	6.588	
2,500.0	2,339.4	2,484.9	2,276.7	15.1	16.4	-63.42	625.3	595.2	208.8	177.3	6.636	
2,600.0	2,429.1	2,584.2	2,361.9	15.8	17.3	-62.74	660.9	631.7	220.4	187.4	6.683	
2,700.0	2,518.8	2,683.5	2,447.1	16.6	18.2	-62.13	696.5	668.3	232.0	197.5	6.727	
2,800.0	2,608.5	2,782.8	2,532.3	17.4	19.2	-61.58	732.2	704.8	243.6	207.6	6.769	
2,900.0	2,698.3	2,882.0	2,617.5	18.2	20.1	-61.08	767.8	741.3	255.2	217.7	6.809	
3,000.0	2,788.0	2,981.3	2,702.7	19.0	21.0	-60.63	803.4	777.9	266.9	227.9	6.846	
3,100.0	2,877.7	3,080.6	2,787.9	19.8	21.9	-60.21	839.0	814.4	278.6	238.1	6.882	
3,200.0	2,967.5	3,179.9	2,873.0	20.6	22.8	-59.82	874.7	850.9	290.2	248.3	6.915	
3,300.0	3,057.2	3,279.2	2,958.2	21.4	23.7	-59.47	910.3	887.4	301.9	258.5	6.946	
3,400.0	3,146.9	3,378.5	3,043.4	22.2	24.7	-59.14	945.9	924.0	313.7	268.7	6.976	
3,500.0	3,236.6	3,477.8	3,128.6	23.0	25.6	-58.83	981.5	960.5	325.4	278.9	7.004	
3,600.0	3,326.4	3,577.1	3,213.8	23.8	26.5	-58.55	1,017.2	997.0	337.1	289.2	7.030	
3,700.0	3,416.1	3,676.4	3,299.0	24.6	27.4	-58.29	1,052.8	1,033.5	348.8	299.4	7.055	
3,800.0	3,505.8	3,775.7	3,384.1	25.4	28.3	-58.04	1,088.4	1,070.1	360.6	309.7	7.079	
3,900.0	3,595.6	3,875.0	3,469.3	26.2	29.3	-57.81	1,124.0	1,106.6	372.3	319.9	7.102	
4,000.0	3,685.3	3,974.3	3,554.5	27.0	30.2	-57.59	1,159.7	1,143.1	384.1	330.2	7.123	
4,100.0	3,775.0	4,073.6	3,639.7	27.8	31.1	-57.38	1,195.3	1,179.7	395.9	340.4	7.143	
4,200.0	3,864.7	4,172.9	3,724.9	28.6	32.0	-57.19	1,230.9	1,216.2	407.6	350.7	7.162	
4,300.0	3,954.5	4,272.2	3,810.1	29.4	33.0	-57.01	1,266.5	1,252.7	419.4	361.0	7.181	
4,400.0	4,044.2	4,371.5	3,895.2	30.3	33.9	-56.84	1,302.2	1,289.2	431.2	371.3	7.198	
4,500.0	4,133.9	4,470.8	3,980.4	31.1	34.8	-56.67	1,337.8	1,325.8	442.9	381.6	7.215	
4,600.0	4,223.7	4,570.1	4,065.6	31.9	35.7	-56.52	1,373.4	1,362.3	454.7	391.8	7.230	
4,700.0	4,313.4	4,669.4	4,150.8	32.7	36.6	-56.37	1,409.0	1,398.8	466.5	402.1	7.246	
4,800.0	4,403.1	4,768.7	4,236.0	33.5	37.6	-56.23	1,444.7	1,435.4	478.3	412.4	7.260	
4,900.0	4,492.8	4,868.0	4,321.2	34.3	38.5	-56.10	1,480.3	1,471.9	490.1	422.7	7.274	

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 29-01 Fed 0993-21-15W - Slot A-10
<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 29-01 Fed 0993-21-15W	<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	
Laramie 0993-29-01 - Laramie 29-01 Fed 0993-21-13W - OH - Design #1														
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning		
5,000.0	4,582.6	4,967.3	4,406.3	35.1	39.4	-55.97	1,515.9	1,508.4	501.9	433.0	7.287			
5,100.0	4,672.3	5,066.6	4,491.5	35.9	40.3	-55.85	1,551.5	1,544.9	513.7	443.3	7.300			
5,200.0	4,762.0	5,165.9	4,576.7	36.7	41.3	-55.74	1,587.2	1,581.5	525.5	453.6	7.312			
5,300.0	4,851.8	5,265.2	4,661.9	37.5	42.2	-55.63	1,622.8	1,618.0	537.3	463.9	7.323			
5,400.0	4,941.5	5,364.5	4,747.1	38.3	43.1	-55.52	1,658.4	1,654.5	549.1	474.2	7.335			
5,500.0	5,031.2	5,463.8	4,832.3	39.1	44.0	-55.42	1,694.0	1,691.0	560.9	484.5	7.345			
5,600.0	5,121.0	5,563.0	4,917.4	39.9	45.0	-55.36	1,729.7	1,727.6	572.7	494.9	7.357			
5,700.0	5,212.0	5,678.4	5,017.4	40.7	46.0	-55.36	1,769.9	1,768.9	585.1	505.6	7.357			
5,800.0	5,304.7	5,799.5	5,125.1	41.3	47.0	-55.34	1,808.4	1,808.3	596.5	515.3	7.347			
5,900.0	5,398.9	5,921.3	5,236.3	41.9	47.9	-55.33	1,843.1	1,843.9	606.6	524.0	7.341			
6,000.0	5,494.5	6,043.7	5,350.6	42.5	48.6	-55.33	1,873.8	1,875.3	615.6	531.7	7.339			
6,100.0	5,591.3	6,166.8	5,467.6	42.9	49.3	-55.32	1,900.2	1,902.5	623.2	538.3	7.341			
6,200.0	5,689.1	6,290.3	5,587.0	43.3	49.8	-55.32	1,922.4	1,925.2	629.6	543.9	7.346			
6,300.0	5,787.7	6,414.3	5,708.4	43.5	50.3	-55.33	1,940.0	1,943.3	634.6	548.4	7.355			
6,400.0	5,887.0	6,538.5	5,831.2	43.8	50.6	-55.33	1,953.1	1,956.7	638.4	551.7	7.368			
6,500.0	5,986.7	6,663.0	5,955.1	43.9	50.8	-55.33	1,961.5	1,965.3	640.7	554.0	7.385			
6,600.0	6,086.6	6,787.7	6,079.6	44.0	50.9	-55.34	1,965.2	1,969.1	641.8	555.1	7.408			
6,700.0	6,186.6	6,894.7	6,186.6	44.0	50.9	0.65	1,965.4	1,969.3	641.8	555.3	7.416			
6,800.0	6,286.6	6,994.7	6,286.6	44.0	50.9	0.65	1,965.4	1,969.3	641.8	555.2	7.412			
6,900.0	6,386.6	7,094.7	6,386.6	44.0	50.9	0.65	1,965.4	1,969.3	641.8	555.1	7.407			
7,000.0	6,486.6	7,194.7	6,486.6	44.1	51.0	0.65	1,965.4	1,969.3	641.8	555.1	7.403			
7,100.0	6,586.6	7,294.7	6,586.6	44.1	51.0	0.65	1,965.4	1,969.3	641.8	555.0	7.398			
7,200.0	6,686.6	7,394.7	6,686.6	44.1	51.0	0.65	1,965.4	1,969.3	641.8	555.0	7.393			
7,300.0	6,786.6	7,494.7	6,786.6	44.1	51.0	0.65	1,965.4	1,969.3	641.8	554.9	7.389			
7,400.0	6,886.6	7,594.7	6,886.6	44.2	51.0	0.65	1,965.4	1,969.3	641.8	554.9	7.384			
7,500.0	6,986.6	7,694.7	6,986.6	44.2	51.1	0.65	1,965.4	1,969.3	641.8	554.8	7.379			
7,600.0	7,086.6	7,794.7	7,086.6	44.2	51.1	0.65	1,965.4	1,969.3	641.8	554.8	7.375			
7,700.0	7,186.6	7,894.7	7,186.6	44.2	51.1	0.65	1,965.4	1,969.3	641.8	554.7	7.370			
7,800.0	7,286.6	7,994.7	7,286.6	44.3	51.1	0.65	1,965.4	1,969.3	641.8	554.7	7.365			
7,900.0	7,386.6	8,094.7	7,386.6	44.3	51.1	0.65	1,965.4	1,969.3	641.8	554.6	7.361			
8,000.0	7,486.6	8,194.7	7,486.6	44.3	51.2	0.65	1,965.4	1,969.3	641.8	554.5	7.356			
8,100.0	7,586.6	8,294.7	7,586.6	44.3	51.2	0.65	1,965.4	1,969.3	641.8	554.5	7.351			
8,200.0	7,686.6	8,394.7	7,686.6	44.4	51.2	0.65	1,965.4	1,969.3	641.8	554.4	7.346			
8,300.0	7,786.6	8,494.7	7,786.6	44.4	51.2	0.65	1,965.4	1,969.3	641.8	554.4	7.342			
8,400.0	7,886.6	8,594.7	7,886.6	44.4	51.2	0.65	1,965.4	1,969.3	641.8	554.3	7.337			
8,500.0	7,986.6	8,694.7	7,986.6	44.4	51.3	0.65	1,965.4	1,969.3	641.8	554.3	7.332			
8,600.0	8,086.6	8,794.7	8,086.6	44.5	51.3	0.65	1,965.4	1,969.3	641.8	554.2	7.327			
8,700.0	8,186.6	8,894.7	8,186.6	44.5	51.3	0.65	1,965.4	1,969.3	641.8	554.1	7.322			
8,800.0	8,286.6	8,994.7	8,286.6	44.5	51.3	0.65	1,965.4	1,969.3	641.8	554.1	7.318			
8,900.0	8,386.6	9,094.7	8,386.6	44.5	51.4	0.65	1,965.4	1,969.3	641.8	554.0	7.313			
9,000.0	8,486.6	9,194.7	8,486.6	44.6	51.4	0.65	1,965.4	1,969.3	641.8	554.0	7.308			
9,100.0	8,586.6	9,294.7	8,586.6	44.6	51.4	0.65	1,965.4	1,969.3	641.8	553.9	7.303			
9,200.0	8,686.6	9,394.7	8,686.6	44.6	51.4	0.65	1,965.4	1,969.3	641.8	553.9	7.298			
9,203.0	8,689.6	9,397.7	8,689.6	44.6	51.4	0.65	1,965.4	1,969.3	641.8	553.9	7.298			
9,222.4	8,709.0	9,415.1	8,707.0	44.6	51.4	0.65	1,965.4	1,969.3	641.8	553.8	7.293			

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 29-01 Fed 0993-21-15W - Slot A-10
<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 29-01 Fed 0993-21-15W	<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
Laramie 0993-29-01 - Laramie 29-01 Fed 0993-21-14W - 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 Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	-47.44	10.9	-11.9	16.2				
100.0	100.0	100.0	100.0	0.4	0.4	-47.44	10.9	-11.9	16.2	15.4	20.393		
200.0	200.0	200.0	200.0	1.2	1.2	-47.44	10.9	-11.9	16.2	13.7	6.538	CC	
202.3	202.3	202.3	202.3	1.2	1.2	-103.44	10.9	-11.9	16.2	13.7	6.513		
300.0	300.0	300.1	300.1	1.6	1.7	-101.83	11.7	-10.9	16.2	13.2	5.413		
400.0	399.9	400.1	400.0	3.0	3.3	-99.31	15.2	-6.7	16.6	12.7	4.307	ES	
500.0	499.4	500.2	499.5	4.4	4.6	-96.79	21.4	0.8	17.4	12.8	3.794		
600.0	598.5	600.1	598.5	5.4	5.6	-94.45	30.4	11.8	18.7	13.4	3.556		
700.0	696.9	700.1	696.7	6.3	6.5	-92.40	42.1	26.0	20.4	14.5	3.440		
800.0	794.4	800.0	794.0	7.2	7.3	-90.71	56.5	43.5	22.5	15.9	3.383		
900.0	890.9	899.9	890.2	7.9	8.0	-89.35	73.6	64.3	25.1	17.6	3.355		
1,000.0	986.1	999.7	985.0	8.6	8.7	-88.31	93.3	88.3	28.0	19.6	3.339		
1,100.0	1,080.0	1,099.5	1,078.4	9.3	9.4	-87.52	115.7	115.4	31.4	22.0	3.325		
1,200.0	1,172.2	1,199.2	1,170.1	9.9	10.0	-86.94	140.5	145.6	35.1	24.5	3.308		
1,300.0	1,262.6	1,298.9	1,260.0	10.5	10.6	-86.49	167.9	178.9	39.3	27.3	3.294		
1,400.0	1,352.4	1,398.6	1,348.0	10.7	11.0	-83.06	197.6	215.0	44.0	30.5	3.266		
1,500.0	1,442.1	1,498.4	1,435.7	11.1	11.3	-79.13	227.9	251.8	49.1	33.9	3.232		
1,600.0	1,531.8	1,598.2	1,523.4	11.4	11.7	-75.95	258.2	288.7	54.3	37.5	3.218	SF	
1,700.0	1,621.5	1,698.0	1,611.0	11.8	12.0	-73.34	288.6	325.5	59.8	41.2	3.219		
1,800.0	1,711.3	1,797.8	1,698.7	12.1	12.4	-71.17	318.9	362.4	65.3	45.1	3.232		
1,900.0	1,801.0	1,897.7	1,786.4	12.5	12.7	-69.33	349.2	399.2	70.9	49.1	3.251		
2,000.0	1,890.7	1,997.5	1,874.0	12.9	13.1	-67.77	379.6	436.1	76.6	53.2	3.274		
2,100.0	1,980.5	2,097.3	1,961.7	13.3	13.5	-66.43	409.9	473.0	82.3	57.3	3.299		
2,200.0	2,070.2	2,197.1	2,049.4	13.7	13.9	-65.25	440.2	509.8	88.0	61.6	3.325		
2,300.0	2,159.9	2,296.9	2,137.0	14.1	14.3	-64.23	470.5	546.7	93.8	65.8	3.351		
2,400.0	2,249.6	2,396.8	2,224.7	14.6	14.9	-63.32	500.9	583.5	99.6	70.1	3.376		
2,500.0	2,339.4	2,496.6	2,312.4	15.1	15.7	-62.51	531.2	620.4	105.5	74.4	3.401		
2,600.0	2,429.1	2,596.4	2,400.1	15.8	16.6	-61.79	561.5	657.3	111.3	78.8	3.424		
2,700.0	2,518.8	2,696.2	2,487.7	16.6	17.5	-61.14	591.9	694.1	117.2	83.2	3.447		
2,800.0	2,608.5	2,796.0	2,575.4	17.4	18.3	-60.55	622.2	731.0	123.1	87.6	3.468		
2,900.0	2,698.3	2,895.9	2,663.1	18.2	19.2	-60.02	652.5	767.8	129.0	92.0	3.488		
3,000.0	2,788.0	2,995.7	2,750.7	19.0	20.0	-59.53	682.9	804.7	134.9	96.4	3.507		
3,100.0	2,877.7	3,095.5	2,838.4	19.8	20.9	-59.08	713.2	841.5	140.8	100.8	3.525		
3,200.0	2,967.5	3,195.3	2,926.1	20.6	21.8	-58.67	743.5	878.4	146.7	105.3	3.543		
3,300.0	3,057.2	3,295.1	3,013.7	21.4	22.6	-58.29	773.8	915.3	152.6	109.7	3.559		
3,400.0	3,146.9	3,394.9	3,101.4	22.2	23.5	-57.94	804.2	952.1	158.6	114.2	3.574		
3,500.0	3,236.6	3,494.8	3,189.1	23.0	24.4	-57.62	834.5	989.0	164.5	118.7	3.589		
3,600.0	3,326.4	3,594.6	3,276.7	23.8	25.2	-57.32	864.8	1,025.8	170.4	123.1	3.603		
3,700.0	3,416.1	3,694.4	3,364.4	24.6	26.1	-57.03	895.2	1,062.7	176.4	127.6	3.616		
3,800.0	3,505.8	3,794.2	3,452.1	25.4	27.0	-56.77	925.5	1,099.6	182.3	132.1	3.629		
3,900.0	3,595.6	3,894.0	3,539.7	26.2	27.8	-56.52	955.8	1,136.4	188.3	136.6	3.640		
4,000.0	3,685.3	3,993.9	3,627.4	27.0	28.7	-56.29	986.1	1,173.3	194.3	141.1	3.652		
4,100.0	3,775.0	4,093.7	3,715.1	27.8	29.6	-56.07	1,016.5	1,210.1	200.2	145.6	3.662		
4,200.0	3,864.7	4,193.5	3,802.7	28.6	30.4	-55.87	1,046.8	1,247.0	206.2	150.0	3.673		
4,300.0	3,954.5	4,293.3	3,890.4	29.4	31.3	-55.67	1,077.1	1,283.8	212.2	154.5	3.682		
4,400.0	4,044.2	4,393.1	3,978.1	30.3	32.2	-55.49	1,107.5	1,320.7	218.1	159.0	3.692		
4,500.0	4,133.9	4,493.0	4,065.7	31.1	33.0	-55.32	1,137.8	1,357.6	224.1	163.5	3.700		
4,600.0	4,223.7	4,592.8	4,153.4	31.9	33.9	-55.15	1,168.1	1,394.4	230.1	168.0	3.709		
4,700.0	4,313.4	4,692.6	4,241.1	32.7	34.8	-55.00	1,198.4	1,431.3	236.1	172.5	3.717		
4,800.0	4,403.1	4,792.4	4,328.7	33.5	35.6	-54.85	1,228.8	1,468.1	242.0	177.1	3.725		
4,900.0	4,492.8	4,892.2	4,416.4	34.3	36.5	-54.71	1,259.1	1,505.0	248.0	181.6	3.732		

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 29-01 Fed 0993-21-15W - Slot A-10
<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 29-01 Fed 0993-21-15W	<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
Laramie 0993-29-01 - Laramie 29-01 Fed 0993-21-14W - 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		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning	
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,000.0	4,582.6	4,992.1	4,504.1	35.1	37.4	-54.57	1,289.4	1,541.9	254.0	186.1	3.739		
5,100.0	4,672.3	5,091.9	4,591.7	35.9	38.2	-54.44	1,319.8	1,578.7	260.0	190.6	3.746		
5,200.0	4,762.0	5,191.7	4,679.4	36.7	39.1	-54.32	1,350.1	1,615.6	266.0	195.1	3.753		
5,300.0	4,851.8	5,291.5	4,767.1	37.5	40.0	-54.20	1,380.4	1,652.4	271.9	199.6	3.759		
5,400.0	4,941.5	5,391.3	4,854.7	38.3	40.8	-54.09	1,410.7	1,689.3	277.9	204.1	3.765		
5,500.0	5,031.2	5,491.2	4,942.4	39.1	41.7	-53.98	1,441.1	1,726.1	283.9	208.6	3.771		
5,600.0	5,121.0	5,592.1	5,031.1	39.9	42.6	-53.90	1,471.7	1,763.4	289.9	213.1	3.776		
5,700.0	5,212.0	5,701.1	5,128.3	40.7	43.5	-53.88	1,503.0	1,801.4	295.7	217.4	3.774		
5,800.0	5,304.7	5,810.3	5,227.9	41.3	44.3	-53.86	1,531.4	1,835.9	300.9	221.1	3.771		
5,900.0	5,398.9	5,919.7	5,329.8	41.9	45.0	-53.85	1,556.8	1,866.7	305.6	224.5	3.770		
6,000.0	5,494.5	6,029.4	5,433.7	42.5	45.6	-53.85	1,579.0	1,893.8	309.6	227.5	3.769		
6,100.0	5,591.3	6,139.2	5,539.3	42.9	46.1	-53.84	1,598.2	1,917.1	313.1	230.1	3.770		
6,200.0	5,689.1	6,249.1	5,646.3	43.3	46.5	-53.84	1,614.1	1,936.4	316.0	232.2	3.773		
6,300.0	5,787.7	6,359.2	5,754.6	43.5	46.9	-53.85	1,626.8	1,951.8	318.3	234.0	3.776		
6,400.0	5,887.0	6,469.4	5,863.7	43.8	47.1	-53.86	1,636.1	1,963.2	320.0	235.3	3.780		
6,500.0	5,986.7	6,579.6	5,973.5	43.9	47.3	-53.86	1,642.1	1,970.5	321.0	236.2	3.785		
6,600.0	6,086.6	6,689.8	6,083.7	44.0	47.4	-53.88	1,644.7	1,973.7	321.5	236.7	3.793		
6,700.0	6,186.6	6,792.8	6,186.6	44.0	47.4	2.12	1,644.9	1,973.8	321.5	236.8	3.796		
6,800.0	6,286.6	6,892.8	6,286.6	44.0	47.4	2.12	1,644.9	1,973.8	321.5	236.7	3.793		
6,900.0	6,386.6	6,992.8	6,386.6	44.0	47.5	2.12	1,644.9	1,973.8	321.5	236.7	3.791		
7,000.0	6,486.6	7,092.8	6,486.6	44.1	47.5	2.12	1,644.9	1,973.8	321.5	236.6	3.788		
7,100.0	6,586.6	7,192.8	6,586.6	44.1	47.5	2.12	1,644.9	1,973.8	321.5	236.5	3.786		
7,200.0	6,686.6	7,292.8	6,686.6	44.1	47.5	2.12	1,644.9	1,973.8	321.5	236.5	3.783		
7,300.0	6,786.6	7,392.8	6,786.6	44.1	47.6	2.12	1,644.9	1,973.8	321.5	236.4	3.781		
7,400.0	6,886.6	7,492.8	6,886.6	44.2	47.6	2.12	1,644.9	1,973.8	321.5	236.4	3.778		
7,500.0	6,986.6	7,592.8	6,986.6	44.2	47.6	2.12	1,644.9	1,973.8	321.5	236.3	3.776		
7,600.0	7,086.6	7,692.8	7,086.6	44.2	47.6	2.12	1,644.9	1,973.8	321.5	236.3	3.774		
7,700.0	7,186.6	7,792.8	7,186.6	44.2	47.6	2.12	1,644.9	1,973.8	321.5	236.2	3.771		
7,800.0	7,286.6	7,892.8	7,286.6	44.3	47.7	2.12	1,644.9	1,973.8	321.5	236.2	3.769		
7,900.0	7,386.6	7,992.8	7,386.6	44.3	47.7	2.12	1,644.9	1,973.8	321.5	236.1	3.766		
8,000.0	7,486.6	8,092.8	7,486.6	44.3	47.7	2.12	1,644.9	1,973.8	321.5	236.0	3.763		
8,100.0	7,586.6	8,192.8	7,586.6	44.3	47.7	2.12	1,644.9	1,973.8	321.5	236.0	3.761		
8,200.0	7,686.6	8,292.8	7,686.6	44.4	47.8	2.12	1,644.9	1,973.8	321.5	235.9	3.758		
8,300.0	7,786.6	8,392.8	7,786.6	44.4	47.8	2.12	1,644.9	1,973.8	321.5	235.9	3.756		
8,400.0	7,886.6	8,492.8	7,886.6	44.4	47.8	2.12	1,644.9	1,973.8	321.5	235.8	3.753		
8,500.0	7,986.6	8,496.1	7,890.0	44.4	47.8	2.12	1,644.9	1,973.8	335.7	248.6	3.858		
8,600.0	8,086.6	8,496.1	7,890.0	44.5	47.8	2.12	1,644.9	1,973.8	376.8	293.5	4.525		
8,700.0	8,186.6	8,496.1	7,890.0	44.5	47.8	2.12	1,644.9	1,973.8	437.4	359.8	5.640		
8,800.0	8,286.6	8,496.1	7,890.0	44.5	47.8	2.12	1,644.9	1,973.8	510.5	438.5	7.087		
8,900.0	8,386.6	8,496.1	7,890.0	44.5	47.8	2.12	1,644.9	1,973.8	591.6	524.1	8.774		
9,000.0	8,486.6	8,496.1	7,890.0	44.6	47.8	2.12	1,644.9	1,973.8	677.7	613.9	10.630		
9,100.0	8,586.6	8,496.1	7,890.0	44.6	47.8	2.12	1,644.9	1,973.8	767.2	706.3	12.602		
9,200.0	8,686.6	8,496.1	7,890.0	44.6	47.8	2.12	1,644.9	1,973.8	859.0	800.4	14.652		
9,222.4	8,709.0	8,496.1	7,890.0	44.6	47.8	2.12	1,644.9	1,973.8	879.8	821.6	15.120		

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 29-01 Fed 0993-21-15W - Slot A-10
<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 29-01 Fed 0993-21-15W	<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
Laramie 0993-29-01 - Laramie 29-01 Fed 0993-21-16W - 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		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance		Separation Factor	Warning
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)				Between Centres (usft)	Between Ellipses (usft)		
0.0	0.0	0.0	0.0	0.0	0.0	133.25	-10.9	11.6	15.9			
100.0	100.0	100.0	100.0	0.4	0.4	133.25	-10.9	11.6	15.9	15.1	20.122	
200.0	200.0	200.0	200.0	1.2	1.2	133.25	-10.9	11.6	15.9	13.5	6.451 CC	
300.0	300.0	299.8	299.8	1.6	1.7	75.88	-10.4	12.7	16.2	13.2	5.380	
400.0	399.9	399.6	399.4	3.0	3.3	74.39	-7.9	17.5	16.9	12.8	4.089 ES	
500.0	499.4	499.3	498.6	4.4	4.6	73.59	-3.4	26.1	18.2	12.9	3.469	
600.0	598.5	598.9	597.3	5.4	5.6	73.40	3.1	38.6	19.8	13.7	3.213	
700.0	696.9	698.5	695.2	6.3	6.5	73.71	11.6	54.9	22.0	15.0	3.134 SF	
800.0	794.4	798.1	792.2	7.2	7.3	74.35	22.0	74.9	24.6	16.8	3.153	
900.0	890.9	897.7	888.0	7.9	8.0	75.20	34.3	98.6	27.6	19.1	3.223	
1,000.0	986.1	997.1	982.6	8.6	8.7	76.15	48.5	125.9	31.1	21.7	3.316	
1,100.0	1,080.0	1,096.6	1,075.7	9.3	9.4	77.13	64.6	156.9	35.1	24.8	3.408	
1,200.0	1,172.2	1,196.0	1,167.2	9.9	9.9	78.11	82.6	191.4	39.5	28.2	3.499	
1,300.0	1,262.6	1,295.9	1,258.4	10.5	10.2	82.13	101.4	227.6	43.7	31.6	3.605	
1,400.0	1,352.4	1,395.7	1,349.5	10.7	10.5	87.51	120.2	263.7	48.0	34.8	3.641	
1,500.0	1,442.1	1,495.5	1,440.6	11.1	10.8	91.97	139.0	299.9	52.6	38.1	3.622	
1,600.0	1,531.8	1,595.3	1,531.7	11.4	11.2	95.70	157.8	336.0	57.5	41.5	3.593	
1,700.0	1,621.5	1,695.1	1,622.9	11.8	11.5	98.82	176.6	372.2	62.6	45.1	3.569	
1,800.0	1,711.3	1,795.0	1,714.0	12.1	11.9	101.48	195.4	408.4	67.9	48.8	3.554	
1,900.0	1,801.0	1,894.8	1,805.1	12.5	12.3	103.74	214.2	444.5	73.3	52.6	3.547	
2,000.0	1,890.7	1,994.6	1,896.2	12.9	12.7	105.70	233.0	480.7	78.7	56.5	3.546	
2,100.0	1,980.5	2,094.4	1,987.3	13.3	13.1	107.39	251.8	516.8	84.3	60.6	3.551	
2,200.0	2,070.2	2,194.2	2,078.4	13.7	13.5	108.88	270.6	553.0	89.9	64.7	3.560	
2,300.0	2,159.9	2,294.0	2,169.6	14.1	13.9	110.19	289.4	589.2	95.6	68.8	3.571	
2,400.0	2,249.6	2,393.9	2,260.7	14.6	14.4	111.35	308.2	625.3	101.4	73.1	3.583	
2,500.0	2,339.4	2,493.7	2,351.8	15.1	14.8	112.39	327.0	661.5	107.1	77.3	3.597	
2,600.0	2,429.1	2,593.5	2,442.9	15.8	15.3	113.32	345.8	697.6	112.9	81.7	3.612	
2,700.0	2,518.8	2,693.3	2,534.0	16.6	16.0	114.16	364.6	733.8	118.7	86.0	3.627	
2,800.0	2,608.5	2,793.1	2,625.1	17.4	16.7	114.92	383.4	770.0	124.6	90.4	3.641	
2,900.0	2,698.3	2,892.9	2,716.3	18.2	17.4	115.62	402.2	806.1	130.5	94.8	3.656	
3,000.0	2,788.0	2,992.7	2,807.4	19.0	18.2	116.25	421.0	842.3	136.3	99.2	3.670	
3,100.0	2,877.7	3,092.6	2,898.5	19.8	18.9	116.83	439.8	878.4	142.2	103.6	3.684	
3,200.0	2,967.5	3,192.4	2,989.6	20.6	19.6	117.37	458.6	914.6	148.1	108.1	3.698	
3,300.0	3,057.2	3,292.2	3,080.7	21.4	20.4	117.86	477.4	950.7	154.1	112.6	3.711	
3,400.0	3,146.9	3,392.0	3,171.8	22.2	21.1	118.32	496.2	986.9	160.0	117.0	3.723	
3,500.0	3,236.6	3,491.8	3,263.0	23.0	21.9	118.74	515.0	1,023.1	166.0	121.5	3.736	
3,600.0	3,326.4	3,591.6	3,354.1	23.8	22.6	119.14	533.8	1,059.2	171.9	126.0	3.748	
3,700.0	3,416.1	3,691.5	3,445.2	24.6	23.4	119.51	552.6	1,095.4	177.9	130.5	3.759	
3,800.0	3,505.8	3,791.3	3,536.3	25.4	24.1	119.85	571.4	1,131.5	183.8	135.1	3.770	
3,900.0	3,595.6	3,891.1	3,627.4	26.2	24.9	120.17	590.2	1,167.7	189.8	139.6	3.781	
4,000.0	3,685.3	3,990.9	3,718.5	27.0	25.6	120.48	609.0	1,203.9	195.8	144.1	3.791	
4,100.0	3,775.0	4,090.7	3,809.7	27.8	26.3	120.76	627.8	1,240.0	201.8	148.7	3.800	
4,200.0	3,864.7	4,190.5	3,900.8	28.6	27.1	121.03	646.6	1,276.2	207.8	153.2	3.810	
4,300.0	3,954.5	4,290.4	3,991.9	29.4	27.8	121.29	665.4	1,312.3	213.8	157.8	3.819	
4,400.0	4,044.2	4,390.2	4,083.0	30.3	28.6	121.53	684.2	1,348.5	219.7	162.3	3.828	
4,500.0	4,133.9	4,490.0	4,174.1	31.1	29.3	121.75	703.0	1,384.7	225.7	166.9	3.836	
4,600.0	4,223.7	4,589.8	4,265.2	31.9	30.1	121.97	721.8	1,420.8	231.8	171.5	3.844	
4,700.0	4,313.4	4,689.6	4,356.4	32.7	30.8	122.17	740.6	1,457.0	237.8	176.0	3.852	
4,800.0	4,403.1	4,789.4	4,447.5	33.5	31.6	122.37	759.4	1,493.1	243.8	180.6	3.859	
4,900.0	4,492.8	4,889.3	4,538.6	34.3	32.3	122.55	778.2	1,529.3	249.8	185.2	3.866	
5,000.0	4,582.6	4,989.1	4,629.7	35.1	33.1	122.73	797.0	1,565.5	255.8	189.8	3.873	

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 29-01 Fed 0993-21-15W - Slot A-10
<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 29-01 Fed 0993-21-15W	<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
Laramie 0993-29-01 - Laramie 29-01 Fed 0993-21-16W - 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		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance		Separation Factor	Warning	
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)				Between Centres (usft)	Between Ellipses (usft)			
5,100.0	4,672.3	5,088.9	4,720.8	35.9	33.8	122.90	815.8	1,601.6	261.8	194.3	3.880		
5,200.0	4,762.0	5,188.7	4,811.9	36.7	34.6	123.06	834.6	1,637.8	267.8	198.9	3.886		
5,300.0	4,851.8	5,288.5	4,903.1	37.5	35.3	123.21	853.4	1,673.9	273.9	203.5	3.892		
5,400.0	4,941.5	5,388.3	4,994.2	38.3	36.1	123.36	872.2	1,710.1	279.9	208.1	3.898		
5,500.0	5,031.2	5,488.1	5,085.3	39.1	36.8	123.50	891.0	1,746.2	285.9	212.7	3.904		
5,600.0	5,121.0	5,588.0	5,176.4	39.9	37.6	123.64	909.8	1,782.4	291.9	217.2	3.910		
5,700.0	5,212.0	5,682.4	5,263.3	40.7	38.2	123.73	926.9	1,815.2	297.2	221.2	3.910		
5,800.0	5,304.7	5,776.6	5,351.4	41.3	38.8	123.82	942.2	1,844.7	301.9	224.7	3.910		
5,900.0	5,398.9	5,870.7	5,440.8	41.9	39.3	123.89	955.8	1,870.9	306.2	227.9	3.910		
6,000.0	5,494.5	5,964.8	5,531.2	42.5	39.8	123.95	967.8	1,893.8	309.9	230.6	3.910		
6,100.0	5,591.3	6,058.8	5,622.6	42.9	40.2	124.00	978.0	1,913.5	313.1	233.0	3.910		
6,200.0	5,689.1	6,152.8	5,714.8	43.3	40.5	124.05	986.4	1,929.7	315.7	235.0	3.911		
6,300.0	5,787.7	6,246.7	5,807.6	43.5	40.8	124.09	993.1	1,942.6	317.8	236.6	3.912		
6,400.0	5,887.0	6,340.7	5,900.9	43.8	41.0	124.12	998.1	1,952.2	319.4	237.8	3.913		
6,500.0	5,986.7	6,434.6	5,994.5	43.9	41.1	124.14	1,001.3	1,958.3	320.4	238.5	3.914		
6,600.0	6,086.6	6,528.5	6,088.4	44.0	41.2	124.15	1,002.7	1,961.0	320.8	238.9	3.916		
6,700.0	6,186.6	6,626.7	6,186.6	44.0	41.2	-179.85	1,002.8	1,961.1	320.9	238.9	3.916		
6,800.0	6,286.6	6,726.7	6,286.6	44.0	41.2	-179.85	1,002.8	1,961.1	320.9	238.9	3.914		
6,900.0	6,386.6	6,826.7	6,386.6	44.0	41.2	-179.85	1,002.8	1,961.1	320.9	238.8	3.911		
7,000.0	6,486.6	6,926.7	6,486.6	44.1	41.3	-179.85	1,002.8	1,961.1	320.9	238.8	3.908		
7,100.0	6,586.6	7,026.7	6,586.6	44.1	41.3	-179.85	1,002.8	1,961.1	320.9	238.7	3.906		
7,200.0	6,686.6	7,126.7	6,686.6	44.1	41.3	-179.85	1,002.8	1,961.1	320.9	238.7	3.903		
7,300.0	6,786.6	7,226.7	6,786.6	44.1	41.3	-179.85	1,002.8	1,961.1	320.9	238.6	3.900		
7,400.0	6,886.6	7,326.7	6,886.6	44.2	41.4	-179.85	1,002.8	1,961.1	320.9	238.6	3.898		
7,500.0	6,986.6	7,426.7	6,986.6	44.2	41.4	-179.85	1,002.8	1,961.1	320.9	238.5	3.895		
7,600.0	7,086.6	7,526.7	7,086.6	44.2	41.4	-179.85	1,002.8	1,961.1	320.9	238.4	3.892		
7,700.0	7,186.6	7,626.7	7,186.6	44.2	41.4	-179.85	1,002.8	1,961.1	320.9	238.4	3.890		
7,800.0	7,286.6	7,726.7	7,286.6	44.3	41.5	-179.85	1,002.8	1,961.1	320.9	238.3	3.887		
7,900.0	7,386.6	7,826.7	7,386.6	44.3	41.5	-179.85	1,002.8	1,961.1	320.9	238.3	3.884		
8,000.0	7,486.6	7,926.7	7,486.6	44.3	41.5	-179.85	1,002.8	1,961.1	320.9	238.2	3.881		
8,100.0	7,586.6	8,026.7	7,586.6	44.3	41.6	-179.85	1,002.8	1,961.1	320.9	238.1	3.879		
8,200.0	7,686.6	8,126.7	7,686.6	44.4	41.6	-179.85	1,002.8	1,961.1	320.9	238.1	3.876		
8,300.0	7,786.6	8,226.7	7,786.6	44.4	41.6	-179.85	1,002.8	1,961.1	320.9	238.0	3.873		
8,400.0	7,886.6	8,326.7	7,886.6	44.4	41.6	-179.85	1,002.8	1,961.1	320.9	238.0	3.870		
8,500.0	7,986.6	8,331.1	7,891.0	44.4	41.6	-179.85	1,002.8	1,961.1	334.8	257.8	4.349		
8,600.0	8,086.6	8,331.1	7,891.0	44.5	41.6	-179.85	1,002.8	1,961.1	375.8	308.0	5.543		
8,700.0	8,186.6	8,331.1	7,891.0	44.5	41.6	-179.85	1,002.8	1,961.1	436.3	377.2	7.382		
8,800.0	8,286.6	8,331.1	7,891.0	44.5	41.6	-179.85	1,002.8	1,961.1	509.4	457.0	9.717		
8,900.0	8,386.6	8,331.1	7,891.0	44.5	41.6	-179.85	1,002.8	1,961.1	590.4	542.7	12.368		
9,000.0	8,486.6	8,331.1	7,891.0	44.6	41.6	-179.85	1,002.8	1,961.1	676.5	632.0	15.174		
9,100.0	8,586.6	8,331.1	7,891.0	44.6	41.6	-179.85	1,002.8	1,961.1	766.0	723.5	18.019		
9,200.0	8,686.6	8,331.1	7,891.0	44.6	41.6	-179.85	1,002.8	1,961.1	857.9	816.7	20.834		
9,222.4	8,709.0	8,331.1	7,891.0	44.6	41.6	-179.85	1,002.8	1,961.1	878.7	837.7	21.457		

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Laramie 29-01 Fed 0993-21-15W - Slot A-10
<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 29-01 Fed 0993-21-15W	<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	Offset	Semi Major Axis	Reference		Highside	Offset Wellbore	Centre	Distance		Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Factor		
0.0	0.0	0.0	0.0	0.0	0.0	133.27	-21.9	23.2	31.9				
100.0	100.0	100.0	100.0	0.4	0.4	133.27	-21.9	23.2	31.9	31.1	40.253		
200.0	200.0	200.0	200.0	1.2	1.2	133.27	-21.9	23.2	31.9	29.4	12.905	CC	
300.0	300.0	299.5	299.5	1.6	1.7	76.69	-21.4	24.4	32.3	29.2	10.681	ES	
400.0	399.9	398.9	398.7	3.0	3.3	76.42	-19.6	29.4	33.6	29.4	7.969		
500.0	499.4	498.1	497.5	4.4	4.5	76.77	-16.3	38.5	36.0	30.7	6.795		
600.0	598.5	597.3	595.7	5.4	5.6	77.62	-11.5	51.6	39.3	33.2	6.375		
700.0	696.9	696.5	693.2	6.3	6.4	78.77	-5.3	68.6	43.7	36.8	6.307	SF	
800.0	794.4	795.5	789.6	7.2	7.2	80.07	2.3	89.6	49.0	41.4	6.423		
900.0	890.9	894.4	885.0	7.9	8.0	81.40	11.4	114.4	55.3	47.0	6.629		
1,000.0	986.1	993.2	978.9	8.6	8.7	82.68	21.8	143.1	62.7	53.5	6.861		
1,100.0	1,080.0	1,091.9	1,071.4	9.3	9.3	83.86	33.6	175.4	71.0	60.9	7.076		
1,200.0	1,172.2	1,191.1	1,163.2	9.9	9.6	85.63	46.5	210.9	80.0	69.0	7.321		
1,300.0	1,262.6	1,290.5	1,255.1	10.5	9.9	89.69	59.4	246.5	89.0	77.1	7.480		
1,400.0	1,352.4	1,389.8	1,346.8	10.7	10.3	94.13	72.4	282.1	98.5	85.4	7.511		
1,500.0	1,442.1	1,489.1	1,438.6	11.1	10.6	97.78	85.4	317.7	108.5	94.0	7.482		
1,600.0	1,531.8	1,588.4	1,530.4	11.4	10.9	100.80	98.3	353.2	118.8	102.9	7.450		
1,700.0	1,621.5	1,687.7	1,622.2	11.8	11.3	103.33	111.3	388.8	129.4	112.0	7.428		
1,800.0	1,711.3	1,786.9	1,713.9	12.1	11.7	105.48	124.2	424.4	140.3	121.4	7.418		
1,900.0	1,801.0	1,886.2	1,805.7	12.5	12.1	107.32	137.2	460.0	151.3	130.9	7.419		
2,000.0	1,890.7	1,985.5	1,897.5	12.9	12.5	108.90	150.2	495.6	162.4	140.6	7.428		
2,100.0	1,980.5	2,084.8	1,989.3	13.3	12.9	110.29	163.1	531.2	173.7	150.3	7.443		
2,200.0	2,070.2	2,184.1	2,081.0	13.7	13.3	111.50	176.1	566.8	185.0	160.2	7.463		
2,300.0	2,159.9	2,283.4	2,172.8	14.1	13.7	112.57	189.0	602.4	196.4	170.2	7.485		
2,400.0	2,249.6	2,382.7	2,264.6	14.6	14.1	113.53	202.0	638.0	207.9	180.2	7.508		
2,500.0	2,339.4	2,481.9	2,356.4	15.1	14.6	114.39	214.9	673.6	219.4	190.3	7.533		
2,600.0	2,429.1	2,581.2	2,448.1	15.8	15.0	115.16	227.9	709.1	231.0	200.4	7.557		
2,700.0	2,518.8	2,680.5	2,539.9	16.6	15.5	115.85	240.9	744.7	242.6	210.6	7.582		
2,800.0	2,608.5	2,779.8	2,631.7	17.4	16.0	116.49	253.8	780.3	254.2	220.8	7.606		
2,900.0	2,698.3	2,879.1	2,723.5	18.2	16.6	117.06	266.8	815.9	265.9	231.0	7.630		
3,000.0	2,788.0	2,978.4	2,815.2	19.0	17.3	117.59	279.7	851.5	277.6	241.3	7.654		
3,100.0	2,877.7	3,077.6	2,907.0	19.8	18.0	118.08	292.7	887.1	289.3	251.6	7.676		
3,200.0	2,967.5	3,176.9	2,998.8	20.6	18.7	118.53	305.7	922.7	301.0	261.9	7.698		
3,300.0	3,057.2	3,276.2	3,090.6	21.4	19.4	118.94	318.6	958.3	312.8	272.2	7.719		
3,400.0	3,146.9	3,375.5	3,182.3	22.2	20.1	119.33	331.6	993.9	324.5	282.6	7.739		
3,500.0	3,236.6	3,474.8	3,274.1	23.0	20.8	119.68	344.5	1,029.5	336.3	292.9	7.758		
3,600.0	3,326.4	3,574.1	3,365.9	23.8	21.5	120.02	357.5	1,065.0	348.1	303.3	7.776		
3,700.0	3,416.1	3,673.3	3,457.7	24.6	22.2	120.33	370.5	1,100.6	359.9	313.7	7.794		
3,800.0	3,505.8	3,772.6	3,549.4	25.4	22.9	120.62	383.4	1,136.2	371.7	324.1	7.811		
3,900.0	3,595.6	3,871.9	3,641.2	26.2	23.6	120.90	396.4	1,171.8	383.5	334.5	7.827		
4,000.0	3,685.3	3,971.2	3,733.0	27.0	24.3	121.15	409.3	1,207.4	395.3	344.9	7.843		
4,100.0	3,775.0	4,070.5	3,824.8	27.8	24.9	121.40	422.3	1,243.0	407.2	355.3	7.858		
4,200.0	3,864.7	4,169.8	3,916.5	28.6	25.6	121.62	435.2	1,278.6	419.0	365.8	7.872		
4,300.0	3,954.5	4,269.0	4,008.3	29.4	26.3	121.84	448.2	1,314.2	430.8	376.2	7.886		
4,400.0	4,044.2	4,368.3	4,100.1	30.3	27.0	122.05	461.2	1,349.8	442.7	386.6	7.899		
4,500.0	4,133.9	4,467.6	4,191.9	31.1	27.7	122.24	474.1	1,385.3	454.5	397.1	7.912		
4,600.0	4,223.7	4,566.9	4,283.6	31.9	28.4	122.42	487.1	1,420.9	466.4	407.5	7.924		
4,700.0	4,313.4	4,666.2	4,375.4	32.7	29.1	122.60	500.0	1,456.5	478.3	418.0	7.936		
4,800.0	4,403.1	4,765.5	4,467.2	33.5	29.8	122.77	513.0	1,492.1	490.1	428.5	7.947		
4,900.0	4,492.8	4,864.7	4,559.0	34.3	30.5	122.92	526.0	1,527.7	502.0	438.9	7.958		
5,000.0	4,582.6	4,964.0	4,650.7	35.1	31.2	123.08	538.9	1,563.3	513.9	449.4	7.969		

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 29-01 Fed 0993-21-15W - Slot A-10
<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 29-01 Fed 0993-21-15W	<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
Laramie 0993-29-01 - Laramie 29-01 Fed 0993-21-17W - OH - Design #1												
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning
5,100.0	4,672.3	5,063.3	4,742.5	35.9	31.9	123.22	551.9	1,598.9	525.8	459.9	7.979	
5,200.0	4,762.0	5,162.6	4,834.3	36.7	32.6	123.36	564.8	1,634.5	537.6	470.3	7.988	
5,300.0	4,851.8	5,261.9	4,926.1	37.5	33.3	123.49	577.8	1,670.1	549.5	480.8	7.998	
5,400.0	4,941.5	5,361.2	5,017.8	38.3	34.0	123.62	590.8	1,705.7	561.4	491.3	8.007	
5,500.0	5,031.2	5,460.4	5,109.6	39.1	34.7	123.74	603.7	1,741.2	573.3	501.8	8.016	
5,600.0	5,121.0	5,559.7	5,201.4	39.9	35.4	123.89	616.7	1,776.8	585.2	512.2	8.024	
5,700.0	5,212.0	5,654.3	5,289.1	40.7	36.0	124.05	628.8	1,810.2	595.6	521.4	8.022	
5,800.0	5,304.7	5,745.3	5,374.6	41.3	36.6	124.16	639.5	1,839.5	605.0	529.6	8.019	
5,900.0	5,398.9	5,836.3	5,461.3	41.9	37.1	124.26	648.9	1,865.5	613.3	536.8	8.017	
6,000.0	5,494.5	5,927.4	5,549.0	42.5	37.6	124.35	657.2	1,888.2	620.6	543.2	8.015	
6,100.0	5,591.3	6,018.4	5,637.6	42.9	37.9	124.43	664.3	1,907.7	626.9	548.6	8.013	
6,200.0	5,689.1	6,109.4	5,727.0	43.3	38.2	124.49	670.2	1,923.8	632.1	553.2	8.012	
6,300.0	5,787.7	6,200.0	5,816.6	43.5	38.5	124.55	674.8	1,936.6	636.2	556.8	8.011	
6,400.0	5,887.0	6,291.4	5,907.4	43.8	38.7	124.59	678.3	1,946.1	639.2	559.4	8.009	
6,500.0	5,986.7	6,382.4	5,998.2	43.9	38.8	124.61	680.5	1,952.1	641.2	561.1	8.007	
6,600.0	6,086.6	6,473.4	6,089.2	44.0	38.9	124.63	681.5	1,954.8	642.1	561.9	8.003	
6,700.0	6,186.6	6,570.9	6,186.6	44.0	38.9	-179.37	681.5	1,954.9	642.2	561.9	7.997	
6,800.0	6,286.6	6,670.9	6,286.6	44.0	39.0	-179.37	681.5	1,954.9	642.2	561.8	7.991	
6,900.0	6,386.6	6,770.9	6,386.6	44.0	39.0	-179.37	681.5	1,954.9	642.2	561.7	7.985	
7,000.0	6,486.6	6,870.9	6,486.6	44.1	39.0	-179.37	681.5	1,954.9	642.2	561.7	7.980	
7,100.0	6,586.6	6,970.9	6,586.6	44.1	39.0	-179.37	681.5	1,954.9	642.2	561.6	7.974	
7,200.0	6,686.6	7,070.9	6,686.6	44.1	39.1	-179.37	681.5	1,954.9	642.2	561.6	7.968	
7,300.0	6,786.6	7,170.9	6,786.6	44.1	39.1	-179.37	681.5	1,954.9	642.2	561.5	7.963	
7,400.0	6,886.6	7,270.9	6,886.6	44.2	39.1	-179.37	681.5	1,954.9	642.2	561.5	7.957	
7,500.0	6,986.6	7,370.9	6,986.6	44.2	39.2	-179.37	681.5	1,954.9	642.2	561.4	7.951	
7,600.0	7,086.6	7,470.9	7,086.6	44.2	39.2	-179.37	681.5	1,954.9	642.2	561.3	7.946	
7,700.0	7,186.6	7,570.9	7,186.6	44.2	39.2	-179.37	681.5	1,954.9	642.2	561.3	7.940	
7,800.0	7,286.6	7,670.9	7,286.6	44.3	39.2	-179.37	681.5	1,954.9	642.2	561.2	7.934	
7,900.0	7,386.6	7,770.9	7,386.6	44.3	39.3	-179.37	681.5	1,954.9	642.2	561.2	7.928	
8,000.0	7,486.6	7,870.9	7,486.6	44.3	39.3	-179.37	681.5	1,954.9	642.2	561.1	7.922	
8,100.0	7,586.6	7,970.9	7,586.6	44.3	39.3	-179.37	681.5	1,954.9	642.2	561.0	7.917	
8,200.0	7,686.6	8,070.9	7,686.6	44.4	39.4	-179.37	681.5	1,954.9	642.2	561.0	7.911	
8,300.0	7,786.6	8,170.9	7,786.6	44.4	39.4	-179.37	681.5	1,954.9	642.2	560.9	7.905	
8,400.0	7,886.6	8,270.9	7,886.6	44.4	39.4	-179.37	681.5	1,954.9	642.2	560.9	7.899	
8,500.0	7,986.6	8,370.9	7,986.6	44.4	39.5	-179.37	681.5	1,954.9	642.2	560.8	7.893	
8,600.0	8,086.6	8,470.9	8,086.6	44.5	39.5	-179.37	681.5	1,954.9	642.2	560.7	7.887	
8,700.0	8,186.6	8,570.9	8,186.6	44.5	39.5	-179.37	681.5	1,954.9	642.2	560.7	7.881	
8,800.0	8,286.6	8,670.9	8,286.6	44.5	39.5	-179.37	681.5	1,954.9	642.2	560.6	7.875	
8,900.0	8,386.6	8,770.9	8,386.6	44.5	39.6	-179.37	681.5	1,954.9	642.2	560.6	7.869	
9,000.0	8,486.6	8,870.9	8,486.6	44.6	39.6	-179.37	681.5	1,954.9	642.2	560.5	7.863	
9,100.0	8,586.6	8,970.9	8,586.6	44.6	39.6	-179.37	681.5	1,954.9	642.2	560.4	7.857	
9,200.0	8,686.6	9,070.9	8,686.6	44.6	39.7	-179.37	681.5	1,954.9	642.2	560.4	7.851	
9,203.0	8,689.6	9,073.9	8,689.6	44.6	39.7	-179.37	681.5	1,954.9	642.2	560.4	7.851	
9,222.4	8,709.0	9,091.3	8,707.0	44.6	39.7	-179.37	681.5	1,954.9	642.2	560.4	7.853	

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 29-01 Fed 0993-21-15W - Slot A-10
<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 29-01 Fed 0993-21-15W	<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	
Laramie 0993-29-01 - Laramie 29-01 Fed 0993-21-18W - 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		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance		Separation Factor	Warning		
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)				Between Centres (usft)	Between Ellipses (usft)				
0.0	0.0	0.0	0.0	0.0	0.0	133.26	-32.8	34.8	47.8					
100.0	100.0	100.0	100.0	0.4	0.4	133.26	-32.8	34.8	47.8	47.0	60.376			
200.0	200.0	200.0	200.0	1.2	1.2	133.26	-32.8	34.8	47.8	45.4	19.357 CC, ES			
300.0	300.0	298.8	298.8	1.6	2.2	76.06	-32.3	36.9	48.9	45.6	14.897			
400.0	399.9	397.5	397.3	3.0	3.8	75.32	-30.9	43.1	51.4	46.7	10.916			
500.0	499.4	496.1	495.3	4.4	5.0	75.37	-28.6	53.5	55.4	49.5	9.414			
600.0	598.5	594.5	592.6	5.4	5.9	76.05	-25.3	67.9	60.8	54.0	8.892			
700.0	696.9	692.7	688.9	6.3	6.7	77.15	-21.2	86.3	67.7	60.0	8.844 SF			
800.0	794.4	790.7	784.2	7.2	7.5	78.49	-16.1	108.7	76.0	67.6	9.058			
900.0	890.9	888.4	878.1	7.9	8.2	79.91	-10.2	134.9	85.7	76.6	9.411			
1,000.0	986.1	985.8	970.5	8.6	8.9	81.31	-3.4	165.0	96.9	87.0	9.817			
1,100.0	1,080.0	1,083.6	1,062.0	9.3	9.2	82.75	4.2	198.7	109.4	98.8	10.345			
1,200.0	1,172.2	1,182.6	1,154.2	9.9	9.5	85.48	12.1	233.8	122.0	110.7	10.759			
1,300.0	1,262.6	1,281.3	1,246.2	10.5	9.8	89.51	20.0	268.7	134.9	122.6	11.031			
1,400.0	1,352.4	1,379.9	1,338.0	10.7	10.1	93.70	27.9	303.6	148.4	135.1	11.127			
1,500.0	1,442.1	1,478.4	1,429.8	11.1	10.5	97.18	35.8	338.5	162.6	148.0	11.125			
1,600.0	1,531.8	1,576.9	1,521.7	11.4	10.8	100.10	43.7	373.4	177.3	161.4	11.102			
1,700.0	1,621.5	1,675.5	1,613.5	11.8	11.2	102.57	51.5	408.3	192.4	175.1	11.080			
1,800.0	1,711.3	1,774.0	1,705.3	12.1	11.6	104.68	59.4	443.1	207.8	189.0	11.066			
1,900.0	1,801.0	1,872.6	1,797.1	12.5	12.0	106.49	67.3	478.0	223.4	203.2	11.063			
2,000.0	1,890.7	1,971.1	1,888.9	12.9	12.4	108.07	75.2	512.9	239.3	217.6	11.068			
2,100.0	1,980.5	2,069.6	1,980.8	13.3	12.8	109.46	83.0	547.8	255.2	232.2	11.081			
2,200.0	2,070.2	2,168.2	2,072.6	13.7	13.2	110.68	90.9	582.7	271.3	246.9	11.098			
2,300.0	2,159.9	2,266.7	2,164.4	14.1	13.6	111.76	98.8	617.6	287.5	261.7	11.120			
2,400.0	2,249.6	2,365.2	2,256.2	14.6	14.0	112.73	106.7	652.5	303.8	276.6	11.144			
2,500.0	2,339.4	2,463.8	2,348.0	15.1	14.5	113.60	114.5	687.3	320.2	291.5	11.169			
2,600.0	2,429.1	2,562.3	2,439.9	15.8	14.9	114.38	122.4	722.2	336.7	306.6	11.196			
2,700.0	2,518.8	2,660.9	2,531.7	16.6	15.4	115.09	130.3	757.1	353.2	321.7	11.223			
2,800.0	2,608.5	2,759.4	2,623.5	17.4	15.8	115.74	138.2	792.0	369.7	336.8	11.250			
2,900.0	2,698.3	2,857.9	2,715.3	18.2	16.3	116.33	146.0	826.9	386.3	352.0	11.276			
3,000.0	2,788.0	2,956.5	2,807.1	19.0	16.9	116.88	153.9	861.8	402.9	367.3	11.303			
3,100.0	2,877.7	3,055.0	2,899.0	19.8	17.5	117.38	161.8	896.7	419.6	382.5	11.328			
3,200.0	2,967.5	3,153.6	2,990.8	20.6	18.1	117.84	169.7	931.5	436.2	397.8	11.353			
3,300.0	3,057.2	3,252.1	3,082.6	21.4	18.8	118.27	177.5	966.4	453.0	413.2	11.378			
3,400.0	3,146.9	3,350.6	3,174.4	22.2	19.4	118.67	185.4	1,001.3	469.7	428.5	11.401			
3,500.0	3,236.6	3,449.2	3,266.2	23.0	20.1	119.04	193.3	1,036.2	486.4	443.9	11.424			
3,600.0	3,326.4	3,547.7	3,358.1	23.8	20.8	119.38	201.2	1,071.1	503.2	459.3	11.446			
3,700.0	3,416.1	3,646.3	3,449.9	24.6	21.4	119.71	209.0	1,106.0	520.0	474.7	11.467			
3,800.0	3,505.8	3,744.8	3,541.7	25.4	22.1	120.01	216.9	1,140.9	536.8	490.1	11.488			
3,900.0	3,595.6	3,843.3	3,633.5	26.2	22.7	120.30	224.8	1,175.7	553.6	505.5	11.507			
4,000.0	3,685.3	3,941.9	3,725.3	27.0	23.4	120.56	232.7	1,210.6	570.5	521.0	11.526			
4,100.0	3,775.0	4,040.4	3,817.2	27.8	24.0	120.82	240.6	1,245.5	587.3	536.4	11.544			
4,200.0	3,864.7	4,139.0	3,909.0	28.6	24.7	121.06	248.4	1,280.4	604.2	551.9	11.562			
4,300.0	3,954.5	4,237.5	4,000.8	29.4	25.4	121.28	256.3	1,315.3	621.0	567.4	11.579			
4,400.0	4,044.2	4,336.0	4,092.6	30.3	26.0	121.50	264.2	1,350.2	637.9	582.9	11.595			
4,500.0	4,133.9	4,434.6	4,184.4	31.1	26.7	121.70	272.1	1,385.1	654.8	598.4	11.610			
4,600.0	4,223.7	4,533.1	4,276.3	31.9	27.3	121.89	279.9	1,419.9	671.7	613.9	11.625			
4,700.0	4,313.4	4,631.7	4,368.1	32.7	28.0	122.07	287.8	1,454.8	688.6	629.4	11.640			
4,800.0	4,403.1	4,730.2	4,459.9	33.5	28.7	122.25	295.7	1,489.7	705.5	644.9	11.654			
4,900.0	4,492.8	4,828.7	4,551.7	34.3	29.3	122.41	303.6	1,524.6	722.4	660.4	11.667			
5,000.0	4,582.6	4,927.3	4,643.5	35.1	30.0	122.57	311.4	1,559.5	739.3	676.0	11.680			

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 29-01 Fed 0993-21-15W - Slot A-10
<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 29-01 Fed 0993-21-15W	<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
Laramie 0993-29-01 - Laramie 29-01 Fed 0993-21-18W - 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		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance		Separation Factor	Warning	
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)				Between Centres (usft)	Between Ellipses (usft)			
5,100.0	4,672.3	5,025.8	4,735.4	35.9	30.6	122.72	319.3	1,594.4	756.2	691.5	11.693		
5,200.0	4,762.0	5,124.4	4,827.2	36.7	31.3	122.87	327.2	1,629.3	773.1	707.1	11.705		
5,300.0	4,851.8	5,222.9	4,919.0	37.5	32.0	123.01	335.1	1,664.1	790.0	722.6	11.716		
5,400.0	4,941.5	5,321.4	5,010.8	38.3	32.6	123.14	342.9	1,699.0	807.0	738.2	11.728		
5,500.0	5,031.2	5,420.0	5,102.6	39.1	33.3	123.27	350.8	1,733.9	823.9	753.7	11.739		
5,600.0	5,121.0	5,518.5	5,194.5	39.9	34.0	123.45	358.7	1,768.8	840.8	769.2	11.750		
5,700.0	5,212.0	5,613.7	5,283.2	40.7	34.6	123.73	366.3	1,802.5	856.1	783.3	11.747		
5,800.0	5,304.7	5,707.9	5,371.6	41.3	35.2	123.87	373.4	1,834.1	869.6	795.5	11.732		
5,900.0	5,398.9	5,800.0	5,459.3	41.9	35.7	123.99	379.6	1,861.5	881.6	806.4	11.721		
6,000.0	5,494.5	5,890.1	5,546.2	42.5	36.1	124.10	384.9	1,885.0	892.1	815.9	11.715		
6,100.0	5,591.3	5,981.4	5,635.0	42.9	36.5	124.20	389.5	1,905.4	901.0	824.1	11.708		
6,200.0	5,689.1	6,072.8	5,724.7	43.3	36.8	124.28	393.3	1,922.3	908.5	830.8	11.701		
6,300.0	5,787.7	6,164.3	5,815.2	43.5	37.0	124.34	396.4	1,935.7	914.4	836.2	11.694		
6,400.0	5,887.0	6,255.8	5,906.1	43.8	37.2	124.39	398.6	1,945.7	918.8	840.2	11.685		
6,500.0	5,986.7	6,347.4	5,997.4	43.9	37.4	124.42	400.1	1,952.0	921.6	842.7	11.676		
6,600.0	6,086.6	6,439.0	6,089.0	44.0	37.4	124.44	400.7	1,954.8	922.9	843.8	11.667		
6,700.0	6,186.6	6,536.6	6,186.6	44.0	37.5	-179.56	400.7	1,955.0	923.0	843.8	11.662		
6,800.0	6,286.6	6,636.6	6,286.6	44.0	37.5	-179.56	400.7	1,955.0	923.0	843.8	11.654		
6,900.0	6,386.6	6,736.6	6,386.6	44.0	37.5	-179.56	400.7	1,955.0	923.0	843.7	11.645		
7,000.0	6,486.6	6,836.6	6,486.6	44.1	37.5	-179.56	400.7	1,955.0	923.0	843.6	11.637		
7,100.0	6,586.6	6,936.6	6,586.6	44.1	37.6	-179.56	400.7	1,955.0	923.0	843.6	11.629		
7,200.0	6,686.6	7,036.6	6,686.6	44.1	37.6	-179.56	400.7	1,955.0	923.0	843.5	11.620		
7,300.0	6,786.6	7,136.6	6,786.6	44.1	37.6	-179.56	400.7	1,955.0	923.0	843.5	11.612		
7,400.0	6,886.6	7,236.6	6,886.6	44.2	37.7	-179.56	400.7	1,955.0	923.0	843.4	11.604		
7,500.0	6,986.6	7,336.6	6,986.6	44.2	37.7	-179.56	400.7	1,955.0	923.0	843.4	11.595		
7,600.0	7,086.6	7,436.6	7,086.6	44.2	37.7	-179.56	400.7	1,955.0	923.0	843.3	11.587		
7,700.0	7,186.6	7,536.6	7,186.6	44.2	37.8	-179.56	400.7	1,955.0	923.0	843.2	11.578		
7,800.0	7,286.6	7,636.6	7,286.6	44.3	37.8	-179.56	400.7	1,955.0	923.0	843.2	11.570		
7,900.0	7,386.6	7,736.6	7,386.6	44.3	37.8	-179.56	400.7	1,955.0	923.0	843.1	11.561		
8,000.0	7,486.6	7,836.6	7,486.6	44.3	37.8	-179.56	400.7	1,955.0	923.0	843.1	11.552		
8,100.0	7,586.6	7,936.6	7,586.6	44.3	37.9	-179.56	400.7	1,955.0	923.0	843.0	11.544		
8,200.0	7,686.6	8,036.6	7,686.6	44.4	37.9	-179.56	400.7	1,955.0	923.0	842.9	11.535		
8,300.0	7,786.6	8,136.6	7,786.6	44.4	37.9	-179.56	400.7	1,955.0	923.0	842.9	11.526		
8,400.0	7,886.6	8,236.6	7,886.6	44.4	38.0	-179.56	400.7	1,955.0	923.0	842.8	11.518		
8,500.0	7,986.6	8,240.0	7,890.0	44.4	38.0	-179.56	400.7	1,955.0	928.0	849.1	11.761		
8,600.0	8,086.6	8,240.0	7,890.0	44.5	38.0	-179.56	400.7	1,955.0	943.7	866.7	12.257		
8,700.0	8,186.6	8,240.0	7,890.0	44.5	38.0	-179.56	400.7	1,955.0	969.4	894.9	13.002		
8,800.0	8,286.6	8,240.0	7,890.0	44.5	38.0	-179.56	400.7	1,955.0	1,004.6	932.8	13.993		
8,900.0	8,386.6	8,240.0	7,890.0	44.5	38.0	-179.56	400.7	1,955.0	1,048.1	979.2	15.220		
9,000.0	8,486.6	8,240.0	7,890.0	44.6	38.0	-179.56	400.7	1,955.0	1,099.0	1,033.1	16.671		
9,100.0	8,586.6	8,240.0	7,890.0	44.6	38.0	-179.56	400.7	1,955.0	1,156.3	1,093.2	18.328		
9,200.0	8,686.6	8,240.0	7,890.0	44.6	38.0	-179.56	400.7	1,955.0	1,219.2	1,158.7	20.170		
9,222.4	8,709.0	8,240.0	7,890.0	44.6	38.0	-179.56	400.7	1,955.0	1,233.9	1,174.1	20.606		

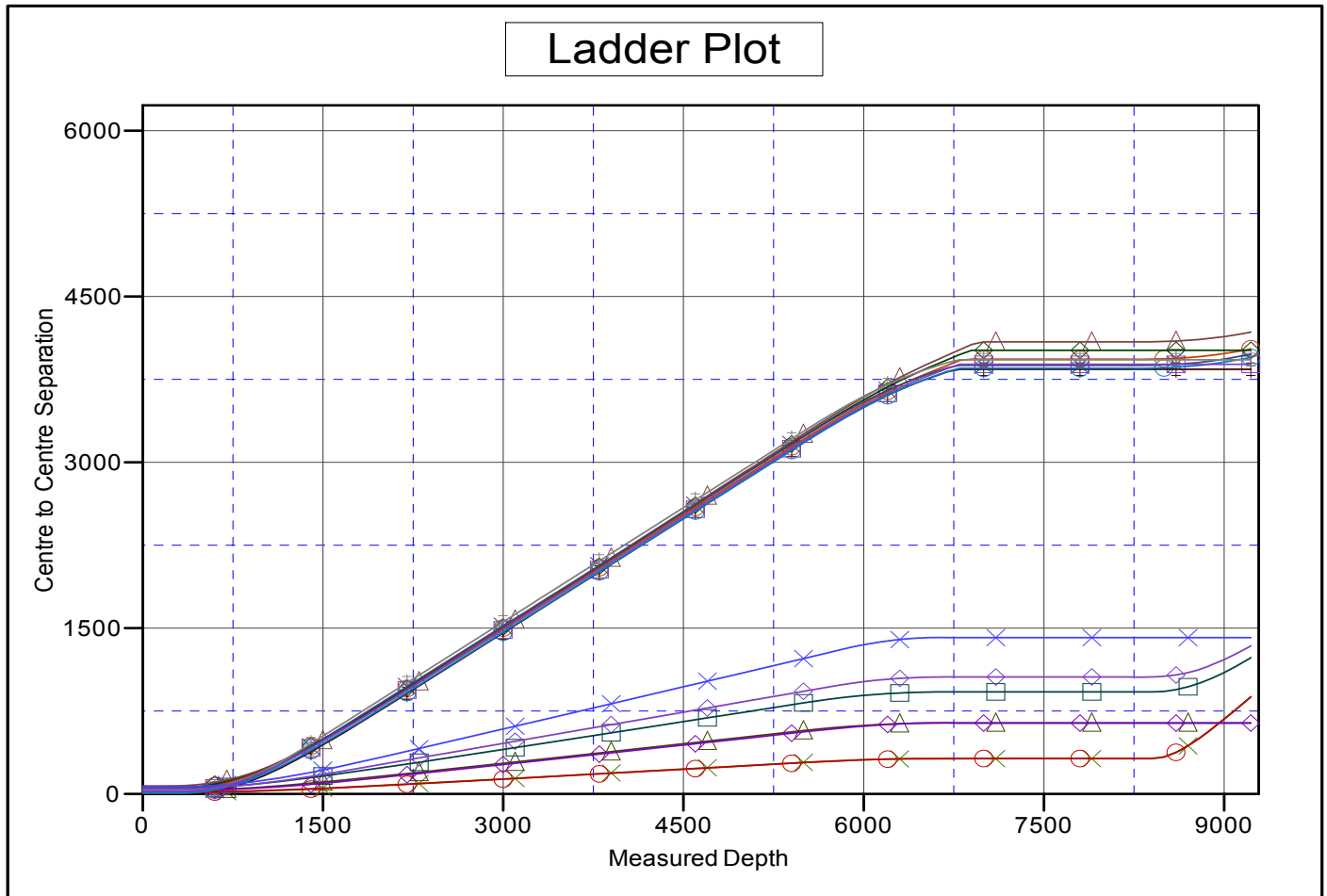
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Laramie 29-01 Fed 0993-21-15W - Slot A-10
<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 29-01 Fed 0993-21-15W	<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)  
 Offset Depths are relative to Offset Datum  
 Central Meridian is -105.500000

Coordinates are relative to: Laramie 29-01 Fed 0993-21-15W - Slot A-10  
 Coordinate System is US State Plane 1983, Colorado Central Zone  
 Grid Convergence at Surface is: -1.44°



LEGEND

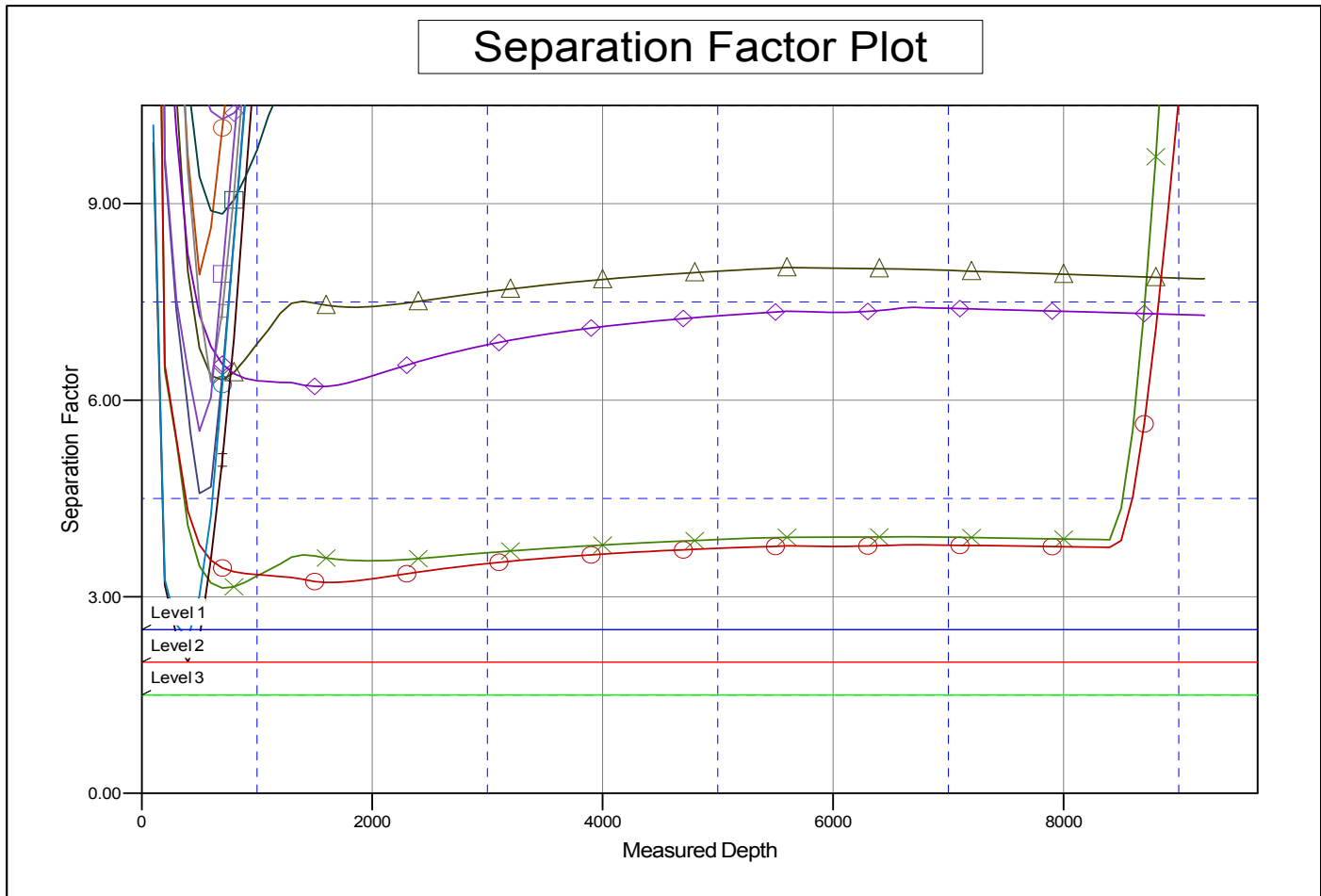
- |   |   |                                       |
|---|---|---------------------------------------|
| 29-01 0993-20-13E, OH, Design #1 V0     | ▲ Laramie 29-01 0993-20-11E, OH, Design #1 V0     | ⊖ Laramie 29-01 0993-20-15E, OH, Desi |
| 29-01 0993-20-12E, OH, Design #1 V0     | ● Laramie 29-01 Fed 0993-21-14W, OH, Design #1 V0 | ⊖ Laramie 29-01 0993-20-18E, OH, Desi |
| 29-01 Fed 0993-21-16W, OH, Design #1 V0 | ◆ Laramie 29-01 Fed 0993-21-13W, OH, Design #1 V0 | ◆ Laramie 29-01 Fed 0993-21-12W, O-I, |
| 29-01 Fed 0993-21-17W, OH, Design #1 V0 | ✕ Laramie 29-01 0993-20-17E, OH, Design #1 V0     | ✕ Laramie 29-01 Fed 0993-21-11W, OH,  |
| 29-01 0993-20-16E, OH, Design #1 V0     | ⊖ Laramie 29-01 Fed 0993-21-18W, OH, Design #1 V0 | ⊖ Laramie 29-01 0993-20-14E, OH, Desi |



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Laramie 29-01 Fed 0993-21-15W - Slot A-10
<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 29-01 Fed 0993-21-15W	<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)  
 Offset Depths are relative to Offset Datum  
 Central Meridian is -105.500000

Coordinates are relative to: Laramie 29-01 Fed 0993-21-15W - Slot A-10  
 Coordinate System is US State Plane 1983, Colorado Central Zone  
 Grid Convergence at Surface is: -1.44°



LEGEND

- |   |   |   |
|---|---|---|
| 29-01 0993-20-13E, OH, Design #1 V0     | Laramie 29-01 0993-20-11E, OH, Design #1 V0     | Laramie 29-01 0993-20-15E, OH, Design #1 V0     |
| 29-01 0993-20-12E, OH, Design #1 V0     | Laramie 29-01 Fed 0993-21-14W, OH, Design #1 V0 | Laramie 29-01 0993-20-18E, OH, Design #1 V0     |
| 29-01 Fed 0993-21-16W, OH, Design #1 V0 | Laramie 29-01 Fed 0993-21-13W, OH, Design #1 V0 | Laramie 29-01 Fed 0993-21-12W, OH, Design #1 V0 |
| 29-01 Fed 0993-21-17W, OH, Design #1 V0 | Laramie 29-01 0993-20-17E, OH, Design #1 V0     | Laramie 29-01 Fed 0993-21-11W, OH, Design #1 V0 |
| 29-01 0993-20-16E, OH, Design #1 V0     | Laramie 29-01 Fed 0993-21-18W, OH, Design #1 V0 | Laramie 29-01 0993-20-14E, OH, Design #1 V0     |