



# **Laramie Energy, LLC**

**Mesa County, CO  
Laramie 0993-29-01  
Laramie 0993-20-11E**

**OH  
Design #1**

## **KLX Anticollision Report**

**23 August, 2023**





# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Laramie 0993-20-11E - Slot A-1
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-11E	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

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

<b>Survey Tool Program</b>	<b>Date</b>	8/23/2023		
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.0	8,821.7	Design #1 (OH)	OWSG (REV5) MWD HD	OWSG MWD - Standard

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Gunderson 20-03 Pad						
Gunderson BCU 20-09E - Wellbore #1 - Wellbore #1	8,821.7	8,044.3	896.1	791.5	8.566	CC, ES, SF
Gunderson BCU 20-10E - Wellbore #1 - Wellbore #1	6,384.4	5,628.7	703.0	599.0	6.762	CC
Gunderson BCU 20-10E - Wellbore #1 - Wellbore #1	6,400.0	5,642.6	703.0	598.9	6.752	ES
Gunderson BCU 20-10E - Wellbore #1 - Wellbore #1	6,500.0	5,733.2	705.4	600.5	6.723	SF
Laramie 0993-29-01						
Laramie 0993-20-12E - OH - Design #1	200.0	200.0	16.2	13.7	6.538	CC, ES
Laramie 0993-20-12E - OH - Design #1	5,500.0	5,520.6	222.8	137.7	2.619	SF
Laramie 0993-20-13E - OH - Design #1	200.0	200.0	32.2	29.7	13.023	CC, ES
Laramie 0993-20-13E - OH - Design #1	500.0	502.1	41.8	33.7	5.195	SF
Laramie 0993-20-14E - OH - Design #1	200.0	200.0	48.3	45.8	19.543	CC, ES
Laramie 0993-20-14E - OH - Design #1	600.0	602.4	71.0	62.2	8.078	SF
Laramie 0993-20-15E - OH - Design #1	200.0	200.0	64.2	61.8	25.997	CC, ES
Laramie 0993-20-15E - OH - Design #1	600.0	601.4	91.0	82.7	10.892	SF
Laramie 0993-20-16E - OH - Design #1	200.0	200.0	80.2	77.7	32.448	CC, ES
Laramie 0993-20-16E - OH - Design #1	700.0	702.3	123.3	113.5	12.558	SF
Laramie 0993-20-17E - OH - Design #1	200.0	200.0	96.1	93.6	38.902	CC, ES
Laramie 0993-20-17E - OH - Design #1	900.0	914.1	160.5	148.2	13.069	SF
Laramie 0993-20-18E - OH - Design #1	200.0	200.0	112.1	109.6	45.357	CC, ES
Laramie 0993-20-18E - OH - Design #1	900.0	913.7	178.4	166.0	14.342	SF
Laramie Fed 0993-21-11W - OH - Design #1	200.0	200.0	8.1	5.6	3.269	CC, ES
Laramie Fed 0993-21-11W - OH - Design #1	400.0	400.1	13.0	7.9	2.533	SF
Laramie Fed 0993-21-12W - OH - Design #1	200.0	200.0	24.2	21.7	9.780	CC
Laramie Fed 0993-21-12W - OH - Design #1	300.0	300.1	25.5	21.6	6.600	ES
Laramie Fed 0993-21-12W - OH - Design #1	400.0	400.2	29.5	24.2	5.632	SF
Laramie Fed 0993-21-13W - OH - Design #1	200.0	200.0	40.2	37.7	16.274	CC, ES
Laramie Fed 0993-21-13W - OH - Design #1	500.0	498.7	56.7	50.3	8.830	SF
Laramie Fed 0993-21-14W - OH - Design #1	200.0	200.0	56.2	53.7	22.728	CC, ES
Laramie Fed 0993-21-14W - OH - Design #1	500.0	498.2	73.5	67.1	11.431	SF
Laramie Fed 0993-21-15W - OH - Design #1	200.0	200.0	72.3	69.8	29.266	CC, ES
Laramie Fed 0993-21-15W - OH - Design #1	600.0	594.6	106.9	99.2	13.838	SF
Laramie Fed 0993-21-16W - OH - Design #1	200.0	200.0	88.2	85.8	35.717	CC, ES
Laramie Fed 0993-21-16W - OH - Design #1	600.0	591.6	126.6	118.6	15.751	SF
Laramie Fed 0993-21-17W - OH - Design #1	200.0	200.0	104.2	101.7	42.171	CC, ES
Laramie Fed 0993-21-17W - OH - Design #1	600.0	588.2	145.9	137.5	17.442	SF
Laramie Fed 0993-21-18W - OH - Design #1	200.0	200.0	120.1	117.7	48.622	CC, ES
Laramie Fed 0993-21-18W - OH - Design #1	600.0	583.1	167.2	158.3	18.786	SF

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



Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Laramie 0993-20-11E - Slot A-1
<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 993-20-11E	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 110-MWD *DNU*												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning	
800.0	793.7	2,861.5	2,658.7	7.3	19.3	-3.32	3,912.1	-2,327.5	4,981.9	4,957.7	206.059		
900.0	890.0	2,904.0	2,696.2	8.0	19.7	-1.24	3,900.8	-2,310.9	4,915.7	4,890.7	196.418		
1,000.0	985.0	2,957.6	2,743.6	8.7	20.1	0.50	3,886.7	-2,290.2	4,846.7	4,820.8	187.256		
1,100.0	1,078.6	3,063.1	2,836.7	9.3	21.1	2.25	3,859.4	-2,248.9	4,774.6	4,747.7	177.152		
1,200.0	1,170.7	3,162.0	2,923.5	10.0	22.0	3.93	3,833.1	-2,209.4	4,698.9	4,670.9	168.058		
1,300.0	1,260.9	3,186.0	2,944.6	10.6	22.2	5.25	3,826.8	-2,199.8	4,620.7	4,592.1	161.650		
1,400.0	1,349.2	3,234.9	2,987.6	11.2	22.6	6.72	3,814.0	-2,180.3	4,540.1	4,510.9	155.027		
1,500.0	1,435.3	3,281.0	3,028.2	11.7	23.1	8.26	3,802.3	-2,162.0	4,457.6	4,427.6	148.855		
1,600.0	1,519.2	3,408.8	3,140.4	12.3	24.2	10.64	3,768.5	-2,111.0	4,372.0	4,341.1	141.412		
1,700.0	1,600.6	3,442.8	3,170.2	12.8	24.6	12.47	3,759.2	-2,097.4	4,284.3	4,252.8	136.190		
1,800.0	1,680.9	3,494.3	3,215.3	13.1	25.0	13.01	3,745.3	-2,076.9	4,195.8	4,163.8	131.227		
1,900.0	1,761.2	3,578.4	3,288.6	13.5	25.8	13.96	3,722.4	-2,042.6	4,107.0	4,074.3	125.891		
2,000.0	1,841.4	3,614.8	3,320.2	14.0	26.2	14.40	3,712.5	-2,027.4	4,018.1	3,985.0	121.356		
2,100.0	1,921.7	3,657.0	3,356.8	14.6	26.6	14.93	3,701.2	-2,009.8	3,929.4	3,895.8	116.838		
2,200.0	2,002.0	3,688.6	3,384.2	15.4	26.9	15.35	3,692.9	-1,996.5	3,840.8	3,806.7	112.525		
2,300.0	2,082.3	3,725.9	3,416.5	16.3	27.3	15.87	3,683.2	-1,980.5	3,752.4	3,717.8	108.229		
2,400.0	2,162.5	3,752.0	3,439.1	17.4	27.5	16.25	3,676.6	-1,969.2	3,664.2	3,629.0	104.132		
2,500.0	2,242.8	3,791.5	3,473.2	18.4	27.9	16.84	3,666.7	-1,952.1	3,576.2	3,540.4	99.978		
2,600.0	2,323.1	3,822.4	3,500.1	19.5	28.2	17.32	3,659.0	-1,938.8	3,488.5	3,452.2	95.991		
2,700.0	2,403.4	3,846.0	3,520.6	20.6	28.4	17.69	3,653.2	-1,928.7	3,401.1	3,364.2	92.142		
2,800.0	2,483.7	3,879.4	3,549.7	21.7	28.8	18.24	3,645.1	-1,914.3	3,314.0	3,276.4	88.273		
2,900.0	2,563.9	3,906.5	3,573.1	22.8	29.1	18.70	3,638.9	-1,902.4	3,227.3	3,189.1	84.534		
3,000.0	2,644.2	3,940.0	3,602.2	24.0	29.4	19.31	3,631.7	-1,887.3	3,141.0	3,102.1	80.829		
3,100.0	2,724.5	3,977.7	3,634.8	25.1	29.8	20.03	3,623.7	-1,870.2	3,055.1	3,015.5	77.168		
3,200.0	2,804.8	4,026.5	3,677.1	26.2	30.3	20.99	3,613.3	-1,848.1	2,969.3	2,928.9	73.530		
3,300.0	2,885.0	4,069.3	3,714.1	27.3	30.7	21.87	3,604.1	-1,828.8	2,883.8	2,842.6	70.032		
3,400.0	2,965.3	4,110.9	3,750.2	28.5	31.1	22.76	3,595.1	-1,810.0	2,798.5	2,756.5	66.631		
3,500.0	3,045.6	4,148.6	3,782.9	29.6	31.5	23.59	3,587.0	-1,793.1	2,713.7	2,670.8	63.334		
3,600.0	3,125.9	4,183.5	3,813.3	30.7	31.8	24.39	3,579.5	-1,777.6	2,629.3	2,585.6	60.133		
3,700.0	3,206.1	4,223.0	3,847.7	31.8	32.2	25.32	3,571.2	-1,760.2	2,545.4	2,500.8	57.000		
3,800.0	3,286.4	4,253.9	3,874.7	33.0	32.5	26.07	3,564.7	-1,746.6	2,462.1	2,416.5	53.977		
3,900.0	3,366.7	4,289.1	3,905.5	34.1	32.8	26.96	3,557.5	-1,731.2	2,379.4	2,332.8	51.024		
4,000.0	3,447.0	4,317.0	3,929.9	35.2	33.1	27.68	3,551.8	-1,718.9	2,297.4	2,249.7	48.169		
4,100.0	3,527.3	4,360.5	3,968.1	36.4	33.5	28.85	3,543.2	-1,700.0	2,216.1	2,167.3	45.365		
4,200.0	3,607.5	4,396.9	4,000.2	37.5	33.8	29.86	3,536.1	-1,684.2	2,135.7	2,085.6	42.661		
4,300.0	3,687.8	4,434.8	4,033.6	38.6	34.2	30.95	3,528.8	-1,668.0	2,056.1	2,004.8	40.044		
4,400.0	3,768.1	4,474.0	4,068.3	39.8	34.5	32.11	3,521.3	-1,651.4	1,977.5	1,924.8	37.513		
4,500.0	3,848.4	4,515.1	4,104.9	40.9	34.9	33.37	3,513.5	-1,634.3	1,899.9	1,845.7	35.070		
4,600.0	3,928.6	4,560.2	4,145.1	42.1	35.3	34.80	3,505.0	-1,615.6	1,823.3	1,767.5	32.712		
4,700.0	4,008.9	4,689.7	4,260.5	43.2	36.5	39.22	3,478.4	-1,563.2	1,747.6	1,690.1	30.358		
4,800.0	4,089.2	4,741.9	4,306.7	44.3	37.0	41.12	3,465.7	-1,542.8	1,670.9	1,611.6	28.144		
4,900.0	4,169.5	4,790.3	4,349.8	45.5	37.4	42.96	3,453.8	-1,524.1	1,595.4	1,534.1	26.022		
5,000.0	4,249.8	4,828.7	4,384.0	46.6	37.8	44.48	3,444.4	-1,509.4	1,521.4	1,458.1	24.008		
5,100.0	4,330.0	4,868.8	4,419.9	47.7	38.1	46.12	3,434.7	-1,494.4	1,449.3	1,383.7	22.093		

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Laramie 0993-20-11E - Slot A-1
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-11E	<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: 110-MWD *DNU*												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
5,200.0	4,410.3	4,906.1	4,453.4	48.9	38.4	47.68	3,425.9	-1,480.7	1,379.3	1,311.3	20.285		
5,300.0	4,490.6	4,942.7	4,486.5	50.0	38.7	49.27	3,417.5	-1,467.3	1,311.8	1,241.2	18.590		
5,400.0	4,570.9	4,977.0	4,517.6	51.2	39.0	50.80	3,409.9	-1,455.0	1,247.2	1,173.9	17.012		
5,500.0	4,651.1	5,011.3	4,548.8	52.3	39.2	52.36	3,402.7	-1,442.9	1,186.1	1,109.9	15.560		
5,600.0	4,731.5	5,044.4	4,579.2	53.4	39.5	53.67	3,396.3	-1,431.3	1,129.2	1,049.9	14.243		
5,700.0	4,813.4	5,084.1	4,615.9	54.5	39.8	54.29	3,389.4	-1,417.8	1,078.2	995.8	13.081		
5,800.0	4,897.9	5,137.4	4,665.4	55.5	40.2	55.64	3,380.7	-1,400.1	1,034.1	948.4	12.079		
5,900.0	4,984.5	5,192.1	4,716.5	56.4	40.5	57.16	3,372.3	-1,382.7	996.9	908.2	11.243		
6,000.0	5,073.3	5,249.3	4,770.7	57.3	40.9	58.82	3,364.8	-1,365.8	967.0	875.5	10.572		
6,100.0	5,164.0	5,318.8	4,837.1	58.0	41.3	60.98	3,357.0	-1,346.8	944.1	850.1	10.041		
6,200.0	5,256.4	5,397.4	4,912.6	58.7	41.6	63.46	3,349.1	-1,326.4	927.4	831.1	9.629		
6,300.0	5,350.4	5,482.6	4,994.9	59.3	42.0	66.09	3,341.2	-1,305.9	915.8	817.5	9.318		
6,400.0	5,445.8	5,571.3	5,081.1	59.8	42.4	68.68	3,333.8	-1,286.1	908.8	808.8	9.095		
6,500.0	5,542.4	5,665.5	5,173.3	60.3	42.7	71.12	3,327.7	-1,268.4	905.3	804.1	8.944		
6,575.1	5,615.7	5,737.4	5,244.1	60.5	43.0	72.80	3,323.8	-1,256.1	904.6	802.6	8.868		
6,600.0	5,640.1	5,760.9	5,267.2	60.6	43.0	73.32	3,322.6	-1,252.3	904.7	802.4	8.848		
6,700.0	5,738.6	5,864.4	5,369.5	60.9	43.3	75.35	3,318.1	-1,236.8	906.3	803.2	8.795		
6,800.0	5,837.7	6,017.5	5,521.8	61.1	43.6	77.42	3,312.8	-1,223.0	906.9	803.3	8.758		
6,900.0	5,937.4	6,127.5	5,631.6	61.3	43.7	78.36	3,307.7	-1,218.7	904.3	800.5	8.710		
7,000.0	6,037.3	6,224.3	5,728.3	61.4	43.8	78.90	3,303.4	-1,215.6	902.4	798.4	8.673		
7,100.0	6,137.3	6,323.3	5,827.1	61.4	43.9	43.91	3,299.1	-1,212.4	901.4	797.3	8.652		
7,200.0	6,237.3	6,419.6	5,923.3	61.4	44.0	44.24	3,295.2	-1,209.0	901.0	796.6	8.636		
7,296.2	6,333.5	6,512.9	6,016.5	61.4	44.1	44.53	3,291.8	-1,205.9	900.7	796.2	8.622		
7,300.0	6,337.3	6,516.3	6,019.8	61.4	44.1	44.54	3,291.7	-1,205.9	900.7	796.2	8.621		
7,400.0	6,437.3	6,610.3	6,113.9	61.4	44.1	44.59	3,291.5	-1,204.8	901.3	796.7	8.616		
7,500.0	6,537.3	6,715.8	6,219.4	61.4	44.2	44.60	3,291.7	-1,204.5	901.6	796.9	8.615		
7,600.0	6,637.3	6,816.3	6,319.8	61.4	44.2	44.61	3,291.7	-1,204.4	901.7	796.9	8.612		
7,700.0	6,737.3	6,917.5	6,421.0	61.5	44.2	44.60	3,291.8	-1,204.5	901.6	796.9	8.610		
7,800.0	6,837.3	7,018.7	6,522.3	61.5	44.2	44.55	3,292.2	-1,205.1	901.5	796.8	8.608		
7,900.0	6,937.3	7,119.1	6,622.6	61.5	44.2	44.51	3,292.5	-1,205.8	901.2	796.5	8.606		
8,000.0	7,037.3	7,216.8	6,720.4	61.5	44.2	44.46	3,292.9	-1,206.5	901.1	796.3	8.603		
8,100.0	7,137.3	7,318.8	6,822.4	61.5	44.2	44.42	3,293.2	-1,206.9	901.0	796.3	8.602		
8,200.0	7,237.3	7,422.1	6,925.7	61.5	44.2	44.39	3,293.3	-1,207.6	900.6	795.9	8.601		
8,300.0	7,337.3	7,521.6	7,025.1	61.6	44.2	44.37	3,293.2	-1,208.3	900.0	795.3	8.596		
8,400.0	7,437.3	7,624.7	7,128.2	61.6	44.2	44.32	3,293.1	-1,209.3	899.3	794.6	8.592		
8,500.0	7,537.3	7,724.3	7,227.8	61.6	44.2	44.23	3,293.5	-1,210.9	898.4	793.8	8.585		
8,600.0	7,637.3	7,823.3	7,326.8	61.6	44.2	44.10	3,294.4	-1,212.9	897.6	793.0	8.578		
8,700.0	7,737.3	7,923.0	7,426.4	61.6	44.2	43.97	3,295.3	-1,214.9	896.9	792.3	8.572		
8,800.0	7,837.3	8,022.6	7,526.0	61.6	44.1	43.84	3,296.3	-1,216.8	896.3	791.7	8.567		
8,821.7	7,859.0	8,044.3	7,547.7	61.6	44.1	43.81	3,296.4	-1,217.2	896.1	791.5	8.566	CC, ES, SF	

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Laramie 0993-20-11E - Slot A-1
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-11E	<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: 110-MWD *DNU*												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N-S (usft)	Offset Wellbore Centre +E-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning	
600.0	598.1	2,858.9	2,615.8	5.8	20.9	-10.37	3,797.9	-2,315.4	4,995.2	4,971.8	213.130		
700.0	696.3	2,920.2	2,669.0	6.6	21.5	-6.49	3,779.9	-2,291.0	4,933.0	4,908.6	201.790		
800.0	793.7	2,977.2	2,718.7	7.3	22.0	-3.75	3,763.5	-2,268.2	4,867.9	4,842.5	191.735		
900.0	890.0	3,037.3	2,771.0	8.0	22.6	-1.62	3,746.5	-2,244.1	4,799.7	4,773.4	182.503		
1,000.0	985.0	3,094.0	2,820.5	8.7	23.1	0.15	3,730.5	-2,221.4	4,728.7	4,701.5	174.153		
1,100.0	1,078.6	3,139.0	2,859.8	9.3	23.5	1.67	3,718.0	-2,203.4	4,654.9	4,627.0	166.748		
1,200.0	1,170.7	3,188.0	2,902.7	10.0	24.0	3.11	3,704.5	-2,183.9	4,578.7	4,550.0	159.738		
1,300.0	1,260.9	3,345.8	3,040.5	10.6	25.5	5.06	3,659.2	-2,121.8	4,499.3	4,469.5	150.678		
1,400.0	1,349.2	3,436.2	3,118.6	11.2	26.3	6.83	3,631.8	-2,085.5	4,416.2	4,385.5	143.719		
1,500.0	1,435.3	3,471.0	3,148.7	11.7	26.7	8.41	3,621.3	-2,071.6	4,331.0	4,299.7	138.285		
1,600.0	1,519.2	3,501.5	3,175.2	12.3	27.0	10.10	3,612.2	-2,059.4	4,243.9	4,212.0	133.211		
1,700.0	1,600.6	3,530.3	3,200.2	12.8	27.2	11.92	3,603.6	-2,048.0	4,155.0	4,122.7	128.414		
1,800.0	1,680.9	3,565.0	3,230.3	13.1	27.6	12.28	3,593.4	-2,034.3	4,065.5	4,032.7	123.992		
1,900.0	1,761.2	3,588.7	3,251.0	13.5	27.8	12.54	3,586.5	-2,024.9	3,976.1	3,942.9	119.770		
2,000.0	1,841.4	3,620.1	3,278.5	14.0	28.1	12.89	3,577.4	-2,012.6	3,886.9	3,853.3	115.517		
2,100.0	1,921.7	3,659.0	3,312.4	14.6	28.5	13.34	3,566.2	-1,997.4	3,797.9	3,763.8	111.259		
2,200.0	2,002.0	3,681.2	3,331.9	15.4	28.7	13.60	3,559.9	-1,988.8	3,709.1	3,674.5	107.246		
2,300.0	2,082.3	3,710.0	3,357.2	16.3	28.9	13.95	3,551.7	-1,977.7	3,620.6	3,585.5	103.234		
2,400.0	2,162.5	3,753.0	3,395.0	17.4	29.3	14.48	3,539.7	-1,961.2	3,532.3	3,496.7	99.185		
2,500.0	2,242.8	3,780.0	3,418.8	18.4	29.6	14.83	3,532.3	-1,950.8	3,444.2	3,408.0	95.332		
2,600.0	2,323.1	3,829.2	3,462.1	19.5	30.0	15.51	3,518.7	-1,931.6	3,356.1	3,319.4	91.400		
2,700.0	2,403.4	3,914.0	3,536.0	20.6	30.8	16.78	3,495.2	-1,897.4	3,267.6	3,230.2	87.301		
2,800.0	2,483.7	3,988.2	3,600.4	21.7	31.5	18.00	3,474.2	-1,867.0	3,178.9	3,140.7	83.387		
2,900.0	2,563.9	4,024.9	3,632.2	22.8	31.9	18.64	3,463.8	-1,852.0	3,090.2	3,051.5	79.775		
3,000.0	2,644.2	4,060.1	3,662.6	24.0	32.2	19.28	3,453.8	-1,837.6	3,001.8	2,962.4	76.254		
3,100.0	2,724.5	4,094.8	3,692.8	25.1	32.6	19.94	3,444.0	-1,823.4	2,913.6	2,873.6	72.812		
3,200.0	2,804.8	4,131.0	3,724.2	26.2	32.9	20.65	3,433.9	-1,808.6	2,825.7	2,785.0	69.439		
3,300.0	2,885.0	4,162.2	3,751.4	27.3	33.2	21.29	3,425.2	-1,795.9	2,738.1	2,696.7	66.150		
3,400.0	2,965.3	4,195.0	3,780.0	28.5	33.5	21.99	3,416.3	-1,782.6	2,650.8	2,608.7	62.929		
3,500.0	3,045.6	4,225.0	3,806.2	29.6	33.8	22.65	3,408.1	-1,770.4	2,564.0	2,521.1	59.782		
3,600.0	3,125.9	4,254.9	3,832.3	30.7	34.1	23.33	3,400.2	-1,758.4	2,477.6	2,433.9	56.706		
3,700.0	3,206.1	4,282.9	3,857.0	31.8	34.3	23.99	3,392.8	-1,747.2	2,391.7	2,347.2	53.705		
3,800.0	3,286.4	4,319.0	3,888.8	33.0	34.7	24.87	3,383.5	-1,733.0	2,306.5	2,261.1	50.770		
3,900.0	3,366.7	4,376.5	3,939.6	34.1	35.2	26.34	3,368.7	-1,710.3	2,221.6	2,175.2	47.894		
4,000.0	3,447.0	4,475.3	4,026.0	35.2	36.1	29.14	3,341.8	-1,670.8	2,136.4	2,089.0	45.069		
4,100.0	3,527.3	4,532.4	4,075.5	36.4	36.7	30.93	3,325.3	-1,647.6	2,050.6	2,002.2	42.314		
4,200.0	3,607.5	4,567.7	4,106.1	37.5	37.0	32.10	3,315.1	-1,633.2	1,965.4	1,915.8	39.627		
4,300.0	3,687.8	4,604.0	4,137.6	38.6	37.4	33.36	3,304.7	-1,618.5	1,880.8	1,830.0	37.013		
4,400.0	3,768.1	4,648.1	4,175.9	39.8	37.8	34.97	3,292.1	-1,600.7	1,796.9	1,744.7	34.476		
4,500.0	3,848.4	4,692.1	4,214.2	40.9	38.2	36.67	3,279.4	-1,583.0	1,713.6	1,660.1	32.011		
4,600.0	3,928.6	4,724.6	4,242.5	42.1	38.5	37.98	3,270.0	-1,570.1	1,631.2	1,576.1	29.620		
4,700.0	4,008.9	4,757.2	4,271.0	43.2	38.8	39.34	3,260.8	-1,557.4	1,550.0	1,493.2	27.313		
4,800.0	4,089.2	4,790.0	4,299.9	44.3	39.1	40.76	3,251.6	-1,544.8	1,470.1	1,411.5	25.097		
4,900.0	4,169.5	4,827.6	4,333.1	45.5	39.5	42.45	3,241.2	-1,530.6	1,391.7	1,331.1	22.977		
5,000.0	4,249.8	4,865.2	4,366.5	46.6	39.8	44.22	3,231.0	-1,516.5	1,315.0	1,252.2	20.952		
5,100.0	4,330.0	4,905.1	4,402.0	47.7	40.2	46.18	3,220.3	-1,501.7	1,240.2	1,175.0	19.029		
5,200.0	4,410.3	4,947.0	4,439.2	48.9	40.5	48.34	3,209.3	-1,486.2	1,167.5	1,099.7	17.212		
5,300.0	4,490.6	4,988.4	4,476.2	50.0	40.9	50.57	3,198.4	-1,471.0	1,097.4	1,026.7	15.507		
5,400.0	4,570.9	5,028.5	4,512.1	51.2	41.2	52.82	3,188.2	-1,456.6	1,030.4	956.5	13.928		
5,500.0	4,651.1	5,073.0	4,552.4	52.3	41.6	55.41	3,177.0	-1,441.0	967.1	889.7	12.482		
5,600.0	4,731.5	5,111.9	4,587.8	53.4	41.9	57.48	3,167.6	-1,427.9	908.2	827.0	11.183		
5,700.0	4,813.4	5,157.7	4,629.8	54.5	42.2	58.89	3,156.9	-1,413.1	855.7	770.6	10.055		

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 Mesa	<b>Local Co-ordinate Reference:</b>	Well Laramie 0993-20-11E - Slot A-1
<b>Project:</b>	County, CO Laramie	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-11E	<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: 110-MWD *DNU*											Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning
5,800.0	4,897.9	5,209.5	4,677.7	55.5	42.6	60.81	3,145.4	-1,397.0	810.9	721.9	9.114	
5,900.0	4,984.5	5,268.0	4,732.2	56.4	43.0	63.24	3,133.2	-1,379.9	774.0	681.4	8.353	
6,000.0	5,073.3	5,334.6	4,794.8	57.3	43.4	66.23	3,120.0	-1,361.4	745.2	649.2	7.761	
6,100.0	5,164.0	5,401.3	4,857.9	58.0	43.8	69.29	3,107.4	-1,343.7	724.2	625.3	7.324	
6,200.0	5,256.4	5,473.3	4,926.5	58.7	44.2	72.59	3,095.5	-1,325.7	711.1	609.9	7.028	
6,300.0	5,350.4	5,554.9	5,005.1	59.3	44.6	76.21	3,083.6	-1,307.1	704.5	601.6	6.846	
6,384.4	5,430.9	5,628.7	5,076.7	59.8	44.9	79.29	3,073.9	-1,291.6	703.0	599.0	6.762	CC
6,400.0	5,445.8	5,642.6	5,090.1	59.8	45.0	79.84	3,072.2	-1,288.8	703.0	598.9	6.752	ES
6,500.0	5,542.4	5,733.2	5,178.5	60.3	45.3	83.26	3,061.8	-1,271.7	705.4	600.5	6.723	SF
6,600.0	5,640.1	5,825.1	5,268.4	60.6	45.6	86.34	3,052.5	-1,255.5	710.8	605.4	6.743	
6,700.0	5,738.6	5,937.5	5,379.2	60.9	46.0	89.46	3,042.8	-1,238.7	717.1	611.4	6.780	
6,800.0	5,837.7	6,053.4	5,494.2	61.1	46.2	91.72	3,035.9	-1,227.4	722.0	616.0	6.814	
6,900.0	5,937.4	6,160.6	5,601.3	61.3	46.3	92.91	3,033.6	-1,222.1	725.4	619.3	6.837	
7,000.0	6,037.3	6,261.9	5,702.6	61.4	46.4	93.52	3,032.8	-1,218.6	728.1	621.9	6.856	
7,100.0	6,137.3	6,362.9	5,803.5	61.4	46.5	95.40	3,032.4	-1,215.6	730.5	624.2	6.872	
7,200.0	6,237.3	6,466.6	5,907.2	61.4	46.6	98.50	3,032.5	-1,213.0	732.6	626.2	6.886	
7,300.0	6,337.3	6,572.7	6,013.3	61.4	46.6	102.57	3,032.5	-1,211.3	734.0	627.5	6.893	
7,400.0	6,437.3	6,677.1	6,117.7	61.4	46.6	107.59	3,032.6	-1,210.6	734.6	628.0	6.895	
7,500.0	6,537.3	6,777.3	6,217.9	61.4	46.7	113.60	3,032.7	-1,210.3	734.9	628.3	6.892	
7,600.0	6,637.3	6,879.8	6,320.4	61.4	46.7	120.56	3,033.2	-1,210.3	735.1	628.5	6.892	
7,700.0	6,737.3	6,984.6	6,425.2	61.5	46.7	128.53	3,033.4	-1,210.9	734.7	628.1	6.891	
7,800.0	6,837.3	7,085.6	6,526.2	61.5	46.7	137.52	3,033.0	-1,211.6	734.0	627.4	6.886	
7,900.0	6,937.3	7,185.0	6,625.6	61.5	46.7	147.52	3,032.6	-1,212.3	733.2	626.7	6.881	
8,000.0	7,037.3	7,286.3	6,726.9	61.5	46.7	158.49	3,032.6	-1,213.2	732.4	625.9	6.877	
8,100.0	7,137.3	7,386.1	6,826.7	61.5	46.7	170.42	3,032.7	-1,214.4	731.5	625.0	6.869	
8,200.0	7,237.3	7,487.7	6,928.2	61.5	46.6	183.37	3,032.8	-1,215.5	730.6	624.2	6.864	
8,300.0	7,337.3	7,591.2	7,031.7	61.6	46.6	197.27	3,033.2	-1,217.4	729.2	622.9	6.854	
8,400.0	7,437.3	7,695.2	7,135.7	61.6	46.6	212.12	3,033.8	-1,220.0	727.4	621.1	6.841	
8,500.0	7,537.3	7,799.1	7,239.5	61.6	46.6	227.95	3,034.4	-1,223.3	725.0	618.7	6.822	
8,600.0	7,637.3	7,900.0	7,340.4	61.6	46.5	244.76	3,034.9	-1,226.9	722.2	616.0	6.797	
8,700.0	7,737.3	7,998.5	7,438.8	61.6	46.5	262.59	3,035.3	-1,230.4	719.5	613.3	6.772	
8,800.0	7,837.3	8,099.6	7,539.9	61.6	46.5	281.39	3,035.6	-1,233.8	716.8	610.6	6.749	
8,821.7	7,859.0	8,113.0	7,553.2	61.6	46.5	291.17	3,035.7	-1,234.3	716.3	610.0	6.740	

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Laramie 0993-20-11E - Slot A-1
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-11E	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	132.56	-10.9	11.9	16.2				
100.0	100.0	100.0	100.0	0.4	0.4	132.56	-10.9	11.9	16.2	15.4	20.393		
200.0	200.0	200.0	200.0	1.2	1.2	132.56	-10.9	11.9	16.2	13.7	6.538	CC, ES	
300.0	300.0	300.1	300.1	2.4	1.6	142.49	-10.9	11.8	17.7	14.0	4.756		
400.0	399.7	400.6	400.6	3.9	2.6	157.93	-9.7	8.7	20.7	14.6	3.409		
500.0	499.2	501.0	500.6	5.0	3.4	-173.27	-7.0	1.5	26.5	19.0	3.537		
600.0	598.1	601.7	600.6	5.8	4.0	-156.54	-1.2	-8.5	34.1	25.5	3.971		
700.0	696.3	702.6	700.3	6.6	5.0	-146.70	8.3	-21.0	42.0	32.3	4.317		
800.0	793.7	803.8	799.5	7.3	5.9	-140.45	21.6	-35.8	49.8	39.1	4.663		
900.0	890.0	905.2	898.0	8.0	6.8	-136.26	38.7	-52.9	57.3	45.7	4.934		
1,000.0	985.0	1,006.7	995.5	8.7	7.6	-133.35	59.4	-72.4	64.4	51.8	5.120		
1,100.0	1,078.6	1,108.5	1,091.8	9.3	8.3	-131.29	83.9	-94.2	71.0	57.4	5.223		
1,200.0	1,170.7	1,210.5	1,186.9	10.0	9.0	-129.85	112.0	-118.3	77.1	62.4	5.248		
1,300.0	1,260.9	1,312.7	1,280.3	10.6	9.7	-128.86	143.8	-144.6	82.6	66.7	5.204		
1,400.0	1,349.2	1,415.1	1,372.0	11.2	10.3	-128.22	179.2	-173.2	87.5	70.4	5.102		
1,500.0	1,435.3	1,517.6	1,461.8	11.7	10.9	-127.88	218.1	-203.8	91.9	73.3	4.952		
1,600.0	1,519.2	1,620.3	1,549.4	12.3	11.5	-127.79	260.5	-236.6	95.7	75.6	4.767		
1,700.0	1,600.6	1,722.8	1,634.3	12.8	12.1	-127.94	306.1	-271.3	98.9	77.2	4.568		
1,800.0	1,680.9	1,822.7	1,716.2	13.1	12.4	-128.60	351.8	-305.9	102.0	78.9	4.402		
1,900.0	1,761.2	1,922.7	1,798.1	13.5	12.8	-129.23	397.5	-340.4	105.2	80.4	4.248		
2,000.0	1,841.4	2,022.6	1,880.0	14.0	13.2	-129.82	443.2	-375.0	108.4	82.0	4.108		
2,100.0	1,921.7	2,122.6	1,961.9	14.6	13.7	-130.37	488.9	-409.5	111.5	83.5	3.977		
2,200.0	2,002.0	2,222.5	2,043.8	15.4	14.4	-130.89	534.6	-444.1	114.7	85.1	3.870		
2,300.0	2,082.3	2,322.5	2,125.7	16.3	15.4	-131.39	580.3	-478.6	117.9	86.6	3.767		
2,400.0	2,162.5	2,422.4	2,207.6	17.4	16.4	-131.85	626.0	-513.2	121.2	88.2	3.673		
2,500.0	2,242.8	2,522.3	2,289.5	18.4	17.5	-132.30	671.7	-547.7	124.4	89.7	3.588		
2,600.0	2,323.1	2,622.3	2,371.4	19.5	18.5	-132.72	717.4	-582.3	127.6	91.3	3.511		
2,700.0	2,403.4	2,722.2	2,453.3	20.6	19.6	-133.12	763.1	-616.8	130.8	92.8	3.441		
2,800.0	2,483.7	2,822.2	2,535.2	21.7	20.7	-133.50	808.8	-651.4	134.1	94.4	3.376		
2,900.0	2,563.9	2,922.1	2,617.1	22.8	21.7	-133.87	854.5	-685.9	137.3	95.9	3.317		
3,000.0	2,644.2	3,022.1	2,699.0	24.0	22.8	-134.21	900.2	-720.5	140.6	97.5	3.262		
3,100.0	2,724.5	3,122.0	2,780.8	25.1	23.9	-134.54	945.9	-755.0	143.8	99.0	3.212		
3,200.0	2,804.8	3,221.9	2,862.7	26.2	25.0	-134.86	991.6	-789.6	147.1	100.6	3.165		
3,300.0	2,885.0	3,321.9	2,944.6	27.3	26.1	-135.16	1,037.3	-824.1	150.3	102.2	3.122		
3,400.0	2,965.3	3,421.8	3,026.5	28.5	27.1	-135.45	1,083.0	-858.7	153.6	103.8	3.082		
3,500.0	3,045.6	3,521.8	3,108.4	29.6	28.2	-135.73	1,128.7	-893.2	156.9	105.3	3.044		
3,600.0	3,125.9	3,621.7	3,190.3	30.7	29.3	-136.00	1,174.4	-927.8	160.1	106.9	3.009		
3,700.0	3,206.1	3,721.7	3,272.2	31.8	30.4	-136.25	1,220.1	-962.3	163.4	108.5	2.977		
3,800.0	3,286.4	3,821.6	3,354.1	33.0	31.5	-136.50	1,265.8	-996.9	166.7	110.1	2.946		
3,900.0	3,366.7	3,921.6	3,436.0	34.1	32.6	-136.74	1,311.5	-1,031.4	170.0	111.7	2.917		
4,000.0	3,447.0	4,021.5	3,517.9	35.2	33.7	-136.96	1,357.2	-1,066.0	173.3	113.3	2.890		
4,100.0	3,527.3	4,121.4	3,599.8	36.4	34.7	-137.18	1,402.9	-1,100.5	176.6	114.9	2.865		
4,200.0	3,607.5	4,221.4	3,681.7	37.5	35.8	-137.39	1,448.6	-1,135.1	179.9	116.5	2.841		
4,300.0	3,687.8	4,321.3	3,763.6	38.6	36.9	-137.60	1,494.3	-1,169.6	183.1	118.2	2.818		
4,400.0	3,768.1	4,421.3	3,845.5	39.8	38.0	-137.79	1,540.0	-1,204.2	186.4	119.8	2.796		
4,500.0	3,848.4	4,521.2	3,927.3	40.9	39.1	-137.98	1,585.7	-1,238.7	189.7	121.4	2.776		
4,600.0	3,928.6	4,621.2	4,009.2	42.1	40.2	-138.16	1,631.4	-1,273.3	193.0	123.0	2.757		
4,700.0	4,008.9	4,721.1	4,091.1	43.2	41.3	-138.34	1,677.1	-1,307.8	196.3	124.6	2.738		
4,800.0	4,089.2	4,821.0	4,173.0	44.3	42.4	-138.51	1,722.8	-1,342.4	199.6	126.3	2.721		
4,900.0	4,169.5	4,921.0	4,254.9	45.5	43.5	-138.68	1,768.5	-1,376.9	202.9	127.9	2.704		
5,000.0	4,249.8	5,020.9	4,336.8	46.6	44.6	-138.84	1,814.2	-1,411.5	206.3	129.5	2.688		
5,100.0	4,330.0	5,120.9	4,418.7	47.7	45.7	-138.99	1,859.9	-1,446.0	209.6	131.2	2.673		

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Laramie 0993-20-11E - Slot A-1
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-11E	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning	
5,200.0	4,410.3	5,220.8	4,500.6	48.9	46.7	-139.14	1,905.6	-1,480.6	212.9	132.8	2.659		
5,300.0	4,490.6	5,320.8	4,582.5	50.0	47.8	-139.29	1,951.3	-1,515.1	216.2	134.5	2.645		
5,400.0	4,570.9	5,420.7	4,664.4	51.2	48.9	-139.43	1,997.0	-1,549.7	219.5	136.1	2.632		
5,500.0	4,651.1	5,520.6	4,746.3	52.3	50.0	-139.56	2,042.7	-1,584.2	222.8	137.7	2.619	SF	
5,600.0	4,731.5	5,615.3	4,824.5	53.4	51.0	-139.88	2,085.3	-1,616.4	227.0	140.4	2.622		
5,700.0	4,813.4	5,708.2	4,903.2	54.5	52.0	-140.43	2,124.6	-1,646.1	231.9	144.0	2.638		
5,800.0	4,897.9	5,800.0	4,982.9	55.5	52.8	-140.91	2,160.9	-1,673.5	236.5	147.4	2.653		
5,900.0	4,984.5	5,893.4	5,065.9	56.4	53.6	-141.36	2,195.2	-1,699.5	240.9	150.6	2.668		
6,000.0	5,073.3	5,985.8	5,149.6	57.3	54.3	-141.76	2,226.4	-1,723.1	244.9	153.6	2.682		
6,100.0	5,164.0	6,078.1	5,234.6	58.0	54.9	-142.11	2,254.9	-1,744.6	248.6	156.4	2.697		
6,200.0	5,256.4	6,170.3	5,321.0	58.7	55.5	-142.43	2,280.6	-1,764.0	251.9	159.0	2.711		
6,300.0	5,350.4	6,262.3	5,408.4	59.3	56.0	-142.70	2,303.5	-1,781.3	254.9	161.4	2.726		
6,400.0	5,445.8	6,354.3	5,496.9	59.8	56.4	-142.95	2,323.5	-1,796.5	257.6	163.6	2.740		
6,500.0	5,542.4	6,446.1	5,586.2	60.3	56.8	-143.15	2,340.7	-1,809.5	259.9	165.5	2.754		
6,600.0	5,640.1	6,537.9	5,676.2	60.6	57.1	-143.33	2,355.0	-1,820.3	261.9	167.3	2.768		
6,700.0	5,738.6	6,629.6	5,766.8	60.9	57.3	-143.47	2,366.5	-1,828.9	263.5	168.8	2.781		
6,800.0	5,837.7	6,721.3	5,857.8	61.1	57.5	-143.59	2,375.0	-1,835.4	264.8	170.0	2.795		
6,900.0	5,937.4	6,813.0	5,949.2	61.3	57.6	-143.67	2,380.6	-1,839.6	265.7	171.1	2.809		
7,000.0	6,037.3	6,904.6	6,040.8	61.4	57.7	-143.73	2,383.3	-1,841.6	266.2	171.9	2.824		
7,100.0	6,137.3	7,001.1	6,137.3	61.4	57.7	-179.08	2,383.5	-1,841.8	266.3	172.2	2.832		
7,200.0	6,237.3	7,101.1	6,237.3	61.4	57.7	-179.08	2,383.5	-1,841.8	266.3	172.2	2.830		
7,300.0	6,337.3	7,201.1	6,337.3	61.4	57.8	-179.08	2,383.5	-1,841.8	266.3	172.1	2.829		
7,400.0	6,437.3	7,301.1	6,437.3	61.4	57.8	-179.08	2,383.5	-1,841.8	266.3	172.1	2.827		
7,500.0	6,537.3	7,401.1	6,537.3	61.4	57.8	-179.08	2,383.5	-1,841.8	266.3	172.0	2.826		
7,600.0	6,637.3	7,501.1	6,637.3	61.4	57.8	-179.08	2,383.5	-1,841.8	266.3	172.0	2.824		
7,700.0	6,737.3	7,601.1	6,737.3	61.5	57.8	-179.08	2,383.5	-1,841.8	266.3	171.9	2.823		
7,800.0	6,837.3	7,701.1	6,837.3	61.5	57.8	-179.08	2,383.5	-1,841.8	266.3	171.9	2.821		
7,900.0	6,937.3	7,801.1	6,937.3	61.5	57.9	-179.08	2,383.5	-1,841.8	266.3	171.8	2.820		
8,000.0	7,037.3	7,901.1	7,037.3	61.5	57.9	-179.08	2,383.5	-1,841.8	266.3	171.8	2.818		
8,100.0	7,137.3	8,001.1	7,137.3	61.5	57.9	-179.08	2,383.5	-1,841.8	266.3	171.7	2.817		
8,200.0	7,237.3	8,101.1	7,237.3	61.5	57.9	-179.08	2,383.5	-1,841.8	266.3	171.7	2.815		
8,300.0	7,337.3	8,201.1	7,337.3	61.6	57.9	-179.08	2,383.5	-1,841.8	266.3	171.6	2.813		
8,400.0	7,437.3	8,301.1	7,437.3	61.6	57.9	-179.08	2,383.5	-1,841.8	266.3	171.6	2.812		
8,500.0	7,537.3	8,401.1	7,537.3	61.6	58.0	-179.08	2,383.5	-1,841.8	266.3	171.5	2.810		
8,600.0	7,637.3	8,501.1	7,637.3	61.6	58.0	-179.08	2,383.5	-1,841.8	266.3	171.5	2.809		
8,700.0	7,737.3	8,601.1	7,737.3	61.6	58.0	-179.08	2,383.5	-1,841.8	266.3	171.4	2.807		
8,800.0	7,837.3	8,701.1	7,837.3	61.6	58.0	-179.08	2,383.5	-1,841.8	266.3	171.4	2.805		
8,821.7	7,859.0	8,722.8	7,859.0	61.6	58.0	-179.08	2,383.5	-1,841.8	266.3	171.4	2.805		

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Laramie 0993-20-11E - Slot A-1
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-11E	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	133.28	-22.1	23.4	32.2				
100.0	100.0	100.0	100.0	0.4	0.4	133.28	-22.1	23.4	32.2	31.4	40.619		
200.0	200.0	200.0	200.0	1.2	1.2	133.28	-22.1	23.4	32.2	29.7	13.023	CC, ES	
300.0	300.0	300.1	300.1	2.4	1.6	140.74	-22.1	23.4	33.8	30.0	8.900		
400.0	399.7	401.2	401.2	3.9	2.6	149.15	-21.2	20.9	36.9	31.0	6.220		
500.0	499.2	502.1	501.8	5.0	4.1	172.23	-19.0	14.1	41.8	33.7	5.195	SF	
600.0	598.1	602.9	601.9	5.8	4.6	-170.73	-15.3	3.2	49.5	40.5	5.494		
700.0	696.3	704.3	702.2	6.6	5.1	-159.09	-8.4	-10.5	58.7	48.7	5.864		
800.0	793.7	806.1	802.1	7.3	5.9	-151.19	2.2	-26.7	68.4	57.2	6.111		
900.0	890.0	908.2	901.4	8.0	6.7	-145.61	16.7	-45.4	78.1	65.9	6.403		
1,000.0	985.0	1,010.6	999.9	8.7	7.5	-141.52	35.0	-66.4	87.5	74.4	6.659		
1,100.0	1,078.6	1,113.3	1,097.4	9.3	8.2	-138.46	57.0	-89.9	96.7	82.5	6.842		
1,200.0	1,170.7	1,216.2	1,193.7	10.0	8.9	-136.13	82.8	-115.7	105.4	90.2	6.945		
1,300.0	1,260.9	1,319.5	1,288.5	10.6	9.6	-134.34	112.4	-143.9	113.6	97.3	6.971		
1,400.0	1,349.2	1,423.0	1,381.6	11.2	10.2	-132.96	145.7	-174.4	121.2	103.7	6.926		
1,500.0	1,435.3	1,526.8	1,472.9	11.7	10.8	-131.90	182.6	-207.1	128.3	109.5	6.817		
1,600.0	1,519.2	1,630.8	1,562.1	12.3	11.4	-131.11	223.2	-242.0	134.8	114.6	6.672		
1,700.0	1,600.6	1,731.2	1,646.7	12.8	11.7	-131.02	264.5	-276.9	141.8	120.1	6.542		
1,800.0	1,680.9	1,830.8	1,730.6	13.1	12.1	-131.91	305.5	-311.6	149.9	126.8	6.477		
1,900.0	1,761.2	1,930.4	1,814.5	13.5	12.5	-132.71	346.5	-346.4	158.1	133.4	6.411		
2,000.0	1,841.4	2,030.1	1,898.4	14.0	12.9	-133.42	387.5	-381.1	166.3	140.1	6.349		
2,100.0	1,921.7	2,129.7	1,982.3	14.6	13.5	-134.07	428.5	-415.8	174.6	146.8	6.289		
2,200.0	2,002.0	2,229.4	2,066.2	15.4	14.2	-134.66	469.6	-450.5	182.8	153.5	6.242		
2,300.0	2,082.3	2,329.0	2,150.1	16.3	15.1	-135.20	510.6	-485.2	191.1	160.2	6.193		
2,400.0	2,162.5	2,428.7	2,234.1	17.4	16.0	-135.70	551.6	-519.9	199.4	166.9	6.148		
2,500.0	2,242.8	2,528.3	2,318.0	18.4	17.0	-136.15	592.6	-554.6	207.7	173.6	6.106		
2,600.0	2,323.1	2,627.9	2,401.9	19.5	17.9	-136.57	633.6	-589.3	216.0	180.4	6.068		
2,700.0	2,403.4	2,727.6	2,485.8	20.6	18.9	-136.96	674.6	-624.0	224.3	187.1	6.032		
2,800.0	2,483.7	2,827.2	2,569.7	21.7	19.9	-137.32	715.6	-658.8	232.6	193.8	5.999		
2,900.0	2,563.9	2,926.9	2,653.6	22.8	20.9	-137.66	756.7	-693.5	241.0	200.6	5.968		
3,000.0	2,644.2	3,026.5	2,737.5	24.0	21.9	-137.97	797.7	-728.2	249.3	207.3	5.939		
3,100.0	2,724.5	3,126.1	2,821.4	25.1	22.9	-138.27	838.7	-762.9	257.7	214.1	5.912		
3,200.0	2,804.8	3,225.8	2,905.4	26.2	23.9	-138.54	879.7	-797.6	266.0	220.8	5.887		
3,300.0	2,885.0	3,325.4	2,989.3	27.3	24.9	-138.80	920.7	-832.3	274.4	227.6	5.864		
3,400.0	2,965.3	3,425.1	3,073.2	28.5	25.9	-139.04	961.7	-867.0	282.7	234.3	5.841		
3,500.0	3,045.6	3,524.7	3,157.1	29.6	26.9	-139.27	1,002.7	-901.7	291.1	241.1	5.821		
3,600.0	3,125.9	3,624.4	3,241.0	30.7	28.0	-139.49	1,043.7	-936.4	299.5	247.9	5.801		
3,700.0	3,206.1	3,724.0	3,324.9	31.8	29.0	-139.69	1,084.8	-971.2	307.9	254.6	5.782		
3,800.0	3,286.4	3,823.6	3,408.8	33.0	30.0	-139.89	1,125.8	-1,005.9	316.3	261.4	5.765		
3,900.0	3,366.7	3,923.3	3,492.8	34.1	31.0	-140.07	1,166.8	-1,040.6	324.7	268.2	5.748		
4,000.0	3,447.0	4,022.9	3,576.7	35.2	32.0	-140.25	1,207.8	-1,075.3	333.1	275.0	5.733		
4,100.0	3,527.3	4,122.6	3,660.6	36.4	33.0	-140.41	1,248.8	-1,110.0	341.5	281.7	5.718		
4,200.0	3,607.5	4,222.2	3,744.5	37.5	34.0	-140.57	1,289.8	-1,144.7	349.8	288.5	5.703		
4,300.0	3,687.8	4,321.9	3,828.4	38.6	35.1	-140.72	1,330.8	-1,179.4	358.3	295.3	5.690		
4,400.0	3,768.1	4,421.5	3,912.3	39.8	36.1	-140.86	1,371.9	-1,214.1	366.7	302.1	5.677		
4,500.0	3,848.4	4,521.1	3,996.2	40.9	37.1	-141.00	1,412.9	-1,248.8	375.1	308.9	5.665		
4,600.0	3,928.6	4,620.8	4,080.2	42.1	38.1	-141.13	1,453.9	-1,283.6	383.5	315.6	5.653		
4,700.0	4,008.9	4,720.4	4,164.1	43.2	39.1	-141.26	1,494.9	-1,318.3	391.9	322.4	5.642		
4,800.0	4,089.2	4,820.1	4,248.0	44.3	40.2	-141.38	1,535.9	-1,353.0	400.3	329.2	5.631		
4,900.0	4,169.5	4,919.7	4,331.9	45.5	41.2	-141.49	1,576.9	-1,387.7	408.7	336.0	5.621		
5,000.0	4,249.8	5,019.3	4,415.8	46.6	42.2	-141.60	1,617.9	-1,422.4	417.1	342.8	5.611		
5,100.0	4,330.0	5,119.0	4,499.7	47.7	43.2	-141.71	1,659.0	-1,457.1	425.5	349.6	5.602		

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



Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Laramie 0993-20-11E - Slot A-1
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-11E	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning	
5,200.0	4,410.3	5,218.6	4,583.6	48.9	44.2	-141.81	1,700.0	-1,491.8	434.0	356.4	5.593		
5,300.0	4,490.6	5,318.3	4,667.6	50.0	45.3	-141.91	1,741.0	-1,526.5	442.4	363.2	5.584		
5,400.0	4,570.9	5,417.9	4,751.5	51.2	46.3	-142.01	1,782.0	-1,561.2	450.8	370.0	5.576		
5,500.0	4,651.1	5,517.6	4,835.4	52.3	47.3	-142.10	1,823.0	-1,596.0	459.2	376.7	5.568		
5,600.0	4,731.5	5,600.0	4,905.5	53.4	48.1	-142.31	1,856.1	-1,623.9	468.9	385.1	5.595		
5,700.0	4,813.4	5,690.6	4,984.3	54.5	49.0	-142.74	1,890.1	-1,652.8	479.1	394.0	5.627		
5,800.0	4,897.9	5,776.4	5,060.6	55.5	49.7	-143.13	1,920.2	-1,678.2	488.7	402.3	5.658		
5,900.0	4,984.5	5,862.1	5,138.2	56.4	50.3	-143.47	1,948.0	-1,701.8	497.6	410.1	5.689		
6,000.0	5,073.3	5,947.6	5,216.8	57.3	50.9	-143.78	1,973.5	-1,723.4	505.9	417.4	5.719		
6,100.0	5,164.0	6,032.9	5,296.5	58.0	51.5	-144.06	1,996.8	-1,743.0	513.4	424.1	5.748		
6,200.0	5,256.4	6,118.0	5,377.1	58.7	52.0	-144.31	2,017.7	-1,760.7	520.3	430.2	5.776		
6,300.0	5,350.4	6,200.0	5,455.6	59.3	52.4	-144.52	2,035.6	-1,775.9	526.4	435.8	5.809		
6,400.0	5,445.8	6,287.8	5,540.6	59.8	52.8	-144.72	2,052.5	-1,790.2	531.9	440.6	5.830		
6,500.0	5,542.4	6,372.6	5,623.4	60.3	53.1	-144.89	2,066.4	-1,801.9	536.6	445.0	5.857		
6,600.0	5,640.1	6,457.2	5,706.7	60.6	53.3	-145.03	2,077.9	-1,811.7	540.6	448.7	5.882		
6,700.0	5,738.6	6,541.8	5,790.4	60.9	53.5	-145.14	2,087.1	-1,819.4	543.8	451.8	5.907		
6,800.0	5,837.7	6,626.3	5,874.4	61.1	53.7	-145.24	2,093.9	-1,825.2	546.3	454.2	5.932		
6,900.0	5,937.4	6,710.7	5,958.6	61.3	53.8	-145.31	2,098.3	-1,828.9	548.1	456.1	5.956		
7,000.0	6,037.3	6,800.0	6,047.9	61.4	53.8	-145.35	2,100.4	-1,830.7	549.1	457.1	5.968		
7,015.0	6,038.8	6,800.0	6,047.9	61.4	53.8	-145.35	2,100.4	-1,830.7	549.1	457.2	5.972		
7,100.0	6,137.3	6,889.4	6,137.3	61.4	53.9	179.30	2,100.5	-1,830.8	549.3	457.6	5.994		
7,200.0	6,237.3	6,989.4	6,237.3	61.4	53.9	179.30	2,100.5	-1,830.8	549.3	457.6	5.991		
7,300.0	6,337.3	7,089.4	6,337.3	61.4	53.9	179.30	2,100.5	-1,830.8	549.3	457.5	5.988		
7,400.0	6,437.3	7,189.4	6,437.3	61.4	53.9	179.30	2,100.5	-1,830.8	549.3	457.5	5.984		
7,500.0	6,537.3	7,289.4	6,537.3	61.4	53.9	179.30	2,100.5	-1,830.8	549.3	457.4	5.981		
7,600.0	6,637.3	7,389.4	6,637.3	61.4	53.9	179.30	2,100.5	-1,830.8	549.3	457.4	5.977		
7,700.0	6,737.3	7,489.4	6,737.3	61.5	54.0	179.30	2,100.5	-1,830.8	549.3	457.3	5.974		
7,800.0	6,837.3	7,589.4	6,837.3	61.5	54.0	179.30	2,100.5	-1,830.8	549.3	457.3	5.971		
7,900.0	6,937.3	7,689.4	6,937.3	61.5	54.0	179.30	2,100.5	-1,830.8	549.3	457.2	5.967		
8,000.0	7,037.3	7,789.4	7,037.3	61.5	54.0	179.30	2,100.5	-1,830.8	549.3	457.2	5.964		
8,100.0	7,137.3	7,889.4	7,137.3	61.5	54.0	179.30	2,100.5	-1,830.8	549.3	457.1	5.960		
8,200.0	7,237.3	7,989.4	7,237.3	61.5	54.1	179.30	2,100.5	-1,830.8	549.3	457.1	5.957		
8,300.0	7,337.3	8,089.4	7,337.3	61.6	54.1	179.30	2,100.5	-1,830.8	549.3	457.0	5.953		
8,400.0	7,437.3	8,189.4	7,437.3	61.6	54.1	179.30	2,100.5	-1,830.8	549.3	457.0	5.950		
8,500.0	7,537.3	8,289.4	7,537.3	61.6	54.1	179.30	2,100.5	-1,830.8	549.3	456.9	5.946		
8,600.0	7,637.3	8,389.4	7,637.3	61.6	54.1	179.30	2,100.5	-1,830.8	549.3	456.9	5.943		
8,700.0	7,737.3	8,489.4	7,737.3	61.6	54.2	179.30	2,100.5	-1,830.8	549.3	456.8	5.939		
8,800.0	7,837.3	8,589.4	7,837.3	61.6	54.2	179.30	2,100.5	-1,830.8	549.3	456.7	5.935		
8,801.8	7,839.1	8,591.2	7,839.1	61.6	54.2	179.30	2,100.5	-1,830.8	549.3	456.7	5.935		
8,821.7	7,859.0	8,601.1	7,849.0	61.6	54.2	179.30	2,100.5	-1,830.8	549.4	457.3	5.964		



Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Laramie 0993-20-11E - Slot A-1
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-11E	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	133.34	-33.1	35.1	48.3				
100.0	100.0	100.0	100.0	0.4	0.4	133.34	-33.1	35.1	48.3	47.5	60.955		
200.0	200.0	200.0	200.0	1.2	1.2	133.34	-33.1	35.1	48.3	45.8	19.543	CC, ES	
300.0	300.0	300.0	300.0	2.4	1.7	139.98	-33.1	35.1	49.9	46.1	12.879		
400.0	399.7	400.6	400.6	3.9	2.0	144.73	-33.1	34.6	54.7	49.3	10.157		
500.0	499.2	501.8	501.7	5.0	3.2	163.71	-32.7	30.1	61.4	54.2	8.485		
600.0	598.1	602.4	601.9	5.8	4.5	177.97	-31.9	21.3	71.0	62.2	8.078	SF	
700.0	696.3	704.0	702.7	6.6	4.7	-170.87	-29.9	8.4	83.4	73.7	8.565		
800.0	793.7	806.5	803.8	7.3	5.3	-162.94	-24.3	-7.3	96.7	85.6	8.726		
900.0	890.0	909.6	904.7	8.0	6.1	-157.13	-14.9	-25.6	110.3	97.9	8.905		
1,000.0	985.0	1,013.1	1,005.2	8.7	6.8	-152.75	-1.7	-46.7	124.0	110.5	9.141		
1,100.0	1,078.6	1,117.1	1,105.0	9.3	7.6	-149.34	15.3	-70.5	137.6	123.0	9.382		
1,200.0	1,170.7	1,221.6	1,203.9	10.0	8.3	-146.63	36.1	-96.9	151.0	135.2	9.579		
1,300.0	1,260.9	1,326.5	1,301.7	10.6	9.0	-144.43	60.8	-126.0	164.0	147.1	9.708		
1,400.0	1,349.2	1,432.0	1,398.2	11.2	9.6	-142.64	89.4	-157.8	176.6	158.5	9.767		
1,500.0	1,435.3	1,538.0	1,493.0	11.7	10.3	-141.15	121.7	-192.2	188.7	169.4	9.759		
1,600.0	1,519.2	1,644.4	1,586.0	12.3	10.8	-139.90	157.9	-229.1	200.4	179.8	9.723		
1,700.0	1,600.6	1,744.4	1,672.0	12.8	11.2	-139.21	193.9	-265.0	212.9	191.0	9.720		
1,800.0	1,680.9	1,843.4	1,757.3	13.1	11.6	-139.39	229.6	-300.7	226.8	203.6	9.796		
1,900.0	1,761.2	1,942.4	1,842.5	13.5	12.0	-139.55	265.3	-336.4	240.7	216.2	9.837		
2,000.0	1,841.4	2,041.5	1,927.7	14.0	12.4	-139.69	301.0	-372.0	254.6	228.7	9.856		
2,100.0	1,921.7	2,140.5	2,012.9	14.6	12.9	-139.82	336.7	-407.7	268.4	241.2	9.863		
2,200.0	2,002.0	2,239.5	2,098.1	15.4	13.6	-139.94	372.4	-443.4	282.3	253.7	9.858		
2,300.0	2,082.3	2,338.5	2,183.3	16.3	14.4	-140.04	408.1	-479.0	296.2	266.1	9.843		
2,400.0	2,162.5	2,437.6	2,268.5	17.4	15.2	-140.13	443.8	-514.7	310.1	278.6	9.823		
2,500.0	2,242.8	2,536.6	2,353.7	18.4	16.1	-140.22	479.5	-550.4	324.0	291.0	9.798		
2,600.0	2,323.1	2,635.6	2,438.9	19.5	17.0	-140.30	515.2	-586.0	337.9	303.3	9.771		
2,700.0	2,403.4	2,734.7	2,524.1	20.6	17.9	-140.37	550.9	-621.7	351.8	315.7	9.742		
2,800.0	2,483.7	2,833.7	2,609.3	21.7	18.8	-140.44	586.6	-657.4	365.7	328.1	9.711		
2,900.0	2,563.9	2,932.7	2,694.6	22.8	19.7	-140.51	622.3	-693.0	379.6	340.4	9.680		
3,000.0	2,644.2	3,031.7	2,779.8	24.0	20.7	-140.56	658.0	-728.7	393.5	352.7	9.649		
3,100.0	2,724.5	3,130.8	2,865.0	25.1	21.6	-140.62	693.7	-764.4	407.4	365.0	9.618		
3,200.0	2,804.8	3,229.8	2,950.2	26.2	22.5	-140.67	729.4	-800.0	421.3	377.4	9.588		
3,300.0	2,885.0	3,328.8	3,035.4	27.3	23.5	-140.72	765.1	-835.7	435.2	389.7	9.558		
3,400.0	2,965.3	3,427.9	3,120.6	28.5	24.4	-140.76	800.7	-871.4	449.1	402.0	9.528		
3,500.0	3,045.6	3,526.9	3,205.8	29.6	25.4	-140.80	836.4	-907.0	463.0	414.3	9.500		
3,600.0	3,125.9	3,625.9	3,291.0	30.7	26.3	-140.84	872.1	-942.7	476.9	426.5	9.472		
3,700.0	3,206.1	3,724.9	3,376.2	31.8	27.3	-140.88	907.8	-978.3	490.8	438.8	9.445		
3,800.0	3,286.4	3,824.0	3,461.4	33.0	28.2	-140.92	943.5	-1,014.0	504.7	451.1	9.418		
3,900.0	3,366.7	3,923.0	3,546.6	34.1	29.2	-140.95	979.2	-1,049.7	518.6	463.4	9.393		
4,000.0	3,447.0	4,022.0	3,631.9	35.2	30.1	-140.98	1,014.9	-1,085.3	532.5	475.7	9.368		
4,100.0	3,527.3	4,121.1	3,717.1	36.4	31.1	-141.01	1,050.6	-1,121.0	546.4	487.9	9.345		
4,200.0	3,607.5	4,220.1	3,802.3	37.5	32.0	-141.04	1,086.3	-1,156.7	560.3	500.2	9.322		
4,300.0	3,687.8	4,319.1	3,887.5	38.6	33.0	-141.07	1,122.0	-1,192.3	574.2	512.5	9.299		
4,400.0	3,768.1	4,418.1	3,972.7	39.8	33.9	-141.09	1,157.7	-1,228.0	588.1	524.7	9.278		
4,500.0	3,848.4	4,517.2	4,057.9	40.9	34.9	-141.12	1,193.4	-1,263.7	602.0	537.0	9.257		
4,600.0	3,928.6	4,616.2	4,143.1	42.1	35.8	-141.14	1,229.1	-1,299.3	615.9	549.2	9.237		
4,700.0	4,008.9	4,715.2	4,228.3	43.2	36.8	-141.16	1,264.8	-1,335.0	629.8	561.5	9.217		
4,800.0	4,089.2	4,814.3	4,313.5	44.3	37.7	-141.18	1,300.5	-1,370.7	643.7	573.7	9.199		
4,900.0	4,169.5	4,913.3	4,398.7	45.5	38.7	-141.20	1,336.2	-1,406.3	657.6	586.0	9.180		
5,000.0	4,249.8	5,012.3	4,483.9	46.6	39.7	-141.22	1,371.9	-1,442.0	671.5	598.2	9.163		
5,100.0	4,330.0	5,111.3	4,569.2	47.7	40.6	-141.24	1,407.6	-1,477.7	685.4	610.5	9.146		

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Laramie 0993-20-11E - Slot A-1
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-11E	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design											Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard											Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning
5,200.0	4,410.3	5,210.4	4,654.4	48.9	41.6	-141.26	1,443.3	-1,513.3	699.3	622.7	9.129	
5,300.0	4,490.6	5,309.4	4,739.6	50.0	42.5	-141.28	1,479.0	-1,549.0	713.2	634.9	9.114	
5,400.0	4,570.9	5,408.4	4,824.8	51.2	43.5	-141.30	1,514.7	-1,584.6	727.1	647.2	9.098	
5,500.0	4,651.1	5,500.0	4,903.6	52.3	44.4	-141.31	1,547.7	-1,617.6	741.1	659.6	9.095	
5,600.0	4,731.5	5,585.5	4,978.0	53.4	45.2	-141.47	1,577.3	-1,647.3	756.4	673.6	9.127	
5,700.0	4,813.4	5,665.8	5,049.4	54.5	45.9	-141.87	1,603.4	-1,673.3	772.0	687.9	9.177	
5,800.0	4,897.9	5,745.9	5,121.8	55.5	46.5	-142.23	1,627.6	-1,697.5	786.6	701.3	9.220	
5,900.0	4,984.5	5,825.8	5,195.2	56.4	47.1	-142.56	1,650.0	-1,719.8	800.1	713.8	9.262	
6,000.0	5,073.3	5,900.0	5,264.3	57.3	47.6	-142.85	1,669.1	-1,738.9	812.7	725.4	9.313	
6,100.0	5,164.0	5,985.0	5,344.5	58.0	48.1	-143.13	1,689.1	-1,758.9	824.1	735.9	9.341	
6,200.0	5,256.4	6,064.4	5,420.3	58.7	48.5	-143.37	1,705.8	-1,775.6	834.5	745.5	9.379	
6,300.0	5,350.4	6,143.7	5,496.7	59.3	48.8	-143.59	1,720.6	-1,790.4	843.9	754.2	9.415	
6,400.0	5,445.8	6,222.9	5,573.7	59.8	49.2	-143.78	1,733.6	-1,803.4	852.1	761.9	9.450	
6,500.0	5,542.4	6,300.0	5,649.4	60.3	49.4	-143.94	1,744.4	-1,814.2	859.2	768.7	9.487	
6,600.0	5,640.1	6,380.9	5,729.1	60.6	49.6	-144.08	1,753.8	-1,823.5	865.3	774.3	9.515	
6,700.0	5,738.6	6,459.8	5,807.3	60.9	49.8	-144.20	1,761.0	-1,830.8	870.2	779.0	9.546	
6,800.0	5,837.7	6,538.6	5,885.8	61.1	49.9	-144.30	1,766.3	-1,836.1	874.0	782.7	9.576	
6,900.0	5,937.4	6,617.4	5,964.4	61.3	50.0	-144.37	1,769.7	-1,839.5	876.7	785.4	9.605	
7,000.0	6,037.3	6,700.0	6,047.0	61.4	50.1	-144.42	1,771.2	-1,841.0	878.2	787.0	9.625	
7,100.0	6,137.3	6,790.2	6,137.3	61.4	50.1	-179.77	1,771.3	-1,841.0	878.5	787.4	9.646	
7,200.0	6,237.3	6,890.2	6,237.3	61.4	50.1	-179.77	1,771.3	-1,841.0	878.5	787.4	9.640	
7,300.0	6,337.3	6,990.2	6,337.3	61.4	50.1	-179.77	1,771.3	-1,841.0	878.5	787.3	9.635	
7,400.0	6,437.3	7,090.2	6,437.3	61.4	50.2	-179.77	1,771.3	-1,841.0	878.5	787.3	9.629	
7,500.0	6,537.3	7,190.2	6,537.3	61.4	50.2	-179.77	1,771.3	-1,841.0	878.5	787.2	9.624	
7,600.0	6,637.3	7,290.2	6,637.3	61.4	50.2	-179.77	1,771.3	-1,841.0	878.5	787.2	9.618	
7,700.0	6,737.3	7,390.2	6,737.3	61.5	50.2	-179.77	1,771.3	-1,841.0	878.5	787.1	9.613	
7,800.0	6,837.3	7,490.2	6,837.3	61.5	50.2	-179.77	1,771.3	-1,841.0	878.5	787.1	9.607	
7,900.0	6,937.3	7,590.2	6,937.3	61.5	50.3	-179.77	1,771.3	-1,841.0	878.5	787.0	9.602	
8,000.0	7,037.3	7,690.2	7,037.3	61.5	50.3	-179.77	1,771.3	-1,841.0	878.5	787.0	9.596	
8,100.0	7,137.3	7,790.2	7,137.3	61.5	50.3	-179.77	1,771.3	-1,841.0	878.5	786.9	9.590	
8,200.0	7,237.3	7,890.2	7,237.3	61.5	50.3	-179.77	1,771.3	-1,841.0	878.5	786.8	9.585	
8,300.0	7,337.3	7,990.2	7,337.3	61.6	50.4	-179.77	1,771.3	-1,841.0	878.5	786.8	9.579	
8,400.0	7,437.3	8,090.2	7,437.3	61.6	50.4	-179.77	1,771.3	-1,841.0	878.5	786.7	9.573	
8,500.0	7,537.3	8,190.2	7,537.3	61.6	50.4	-179.77	1,771.3	-1,841.0	878.5	786.7	9.567	
8,600.0	7,637.3	8,290.2	7,637.3	61.6	50.4	-179.77	1,771.3	-1,841.0	878.5	786.6	9.562	
8,700.0	7,737.3	8,390.2	7,737.3	61.6	50.4	-179.77	1,771.3	-1,841.0	878.5	786.6	9.556	
8,800.0	7,837.3	8,490.2	7,837.3	61.6	50.5	-179.77	1,771.3	-1,841.0	878.5	786.5	9.550	
8,821.7	7,859.0	8,512.0	7,859.0	61.6	50.5	-179.77	1,771.3	-1,841.0	878.5	786.5	9.549	

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Laramie 0993-20-11E - Slot A-1
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-11E	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	133.33	-44.1	46.7	64.2				
100.0	100.0	100.0	100.0	0.4	0.4	133.33	-44.1	46.7	64.2	63.4	81.087		
200.0	200.0	200.0	200.0	1.2	1.2	133.33	-44.1	46.7	64.2	61.8	25.997	CC, ES	
300.0	300.0	300.0	300.0	2.4	1.7	139.56	-44.1	46.7	65.9	62.0	17.010		
400.0	399.7	399.7	399.7	3.9	2.1	142.91	-44.1	46.7	71.0	65.5	12.856		
500.0	499.2	500.6	500.6	5.0	2.4	158.75	-44.2	45.5	79.6	72.8	11.669		
600.0	598.1	601.4	601.3	5.8	3.7	170.44	-44.7	40.0	91.0	82.7	10.892	SF	
700.0	696.3	702.6	701.9	6.6	4.2	-179.85	-45.3	30.1	105.5	96.1	11.165		
800.0	793.7	805.7	804.1	7.3	4.7	-172.38	-43.2	16.7	121.5	110.7	11.224		
900.0	890.0	909.4	906.4	8.0	5.4	-166.68	-37.6	0.2	138.0	125.6	11.198		
1,000.0	985.0	1,013.7	1,008.4	8.7	6.2	-162.17	-28.5	-19.4	154.8	141.2	11.347		
1,100.0	1,078.6	1,118.6	1,110.0	9.3	7.0	-158.49	-15.7	-42.2	171.8	157.0	11.579		
1,200.0	1,170.7	1,224.1	1,210.9	10.0	7.7	-155.42	0.7	-68.1	188.9	172.9	11.813		
1,300.0	1,260.9	1,330.2	1,310.9	10.6	8.5	-152.80	20.7	-97.3	205.9	188.8	12.012		
1,400.0	1,349.2	1,436.9	1,409.8	11.2	9.2	-150.52	44.5	-129.5	222.9	204.6	12.165		
1,500.0	1,435.3	1,544.3	1,507.4	11.7	9.8	-148.52	71.9	-164.9	239.7	220.1	12.264		
1,600.0	1,519.2	1,652.2	1,603.3	12.3	10.4	-146.73	103.0	-203.4	256.2	235.5	12.368		
1,700.0	1,600.6	1,750.4	1,689.5	12.8	10.7	-145.51	132.9	-239.7	274.4	252.5	12.538		
1,800.0	1,680.9	1,848.4	1,775.5	13.1	11.1	-145.18	162.8	-275.9	294.1	271.1	12.801		
1,900.0	1,761.2	1,946.4	1,861.6	13.5	11.4	-144.90	192.6	-312.1	313.8	289.6	12.996		
2,000.0	1,841.4	2,044.5	1,947.7	14.0	11.8	-144.64	222.4	-348.3	333.5	308.1	13.143		
2,100.0	1,921.7	2,142.5	2,033.7	14.6	12.3	-144.41	252.3	-384.6	353.2	326.5	13.251		
2,200.0	2,002.0	2,240.5	2,119.8	15.4	12.8	-144.21	282.1	-420.8	372.9	344.9	13.334		
2,300.0	2,082.3	2,338.6	2,205.9	16.3	13.5	-144.03	312.0	-457.0	392.6	363.3	13.389		
2,400.0	2,162.5	2,436.6	2,291.9	17.4	14.2	-143.87	341.8	-493.2	412.3	381.6	13.426		
2,500.0	2,242.8	2,534.6	2,378.0	18.4	15.0	-143.72	371.6	-529.5	432.0	399.9	13.449		
2,600.0	2,323.1	2,632.7	2,464.1	19.5	15.8	-143.58	401.5	-565.7	451.7	418.2	13.460		
2,700.0	2,403.4	2,730.7	2,550.1	20.6	16.6	-143.46	431.3	-601.9	471.5	436.4	13.462		
2,800.0	2,483.7	2,828.7	2,636.2	21.7	17.5	-143.34	461.2	-638.1	491.2	454.7	13.457		
2,900.0	2,563.9	2,926.8	2,722.3	22.8	18.3	-143.23	491.0	-674.4	510.9	472.9	13.446		
3,000.0	2,644.2	3,024.8	2,808.3	24.0	19.2	-143.14	520.8	-710.6	530.6	491.1	13.431		
3,100.0	2,724.5	3,122.8	2,894.4	25.1	20.1	-143.05	550.7	-746.8	550.4	509.3	13.414		
3,200.0	2,804.8	3,220.8	2,980.5	26.2	20.9	-142.96	580.5	-783.0	570.1	527.5	13.394		
3,300.0	2,885.0	3,318.9	3,066.5	27.3	21.8	-142.88	610.4	-819.3	589.8	545.7	13.372		
3,400.0	2,965.3	3,416.9	3,152.6	28.5	22.7	-142.81	640.2	-855.5	609.6	563.9	13.348		
3,500.0	3,045.6	3,514.9	3,238.7	29.6	23.6	-142.74	670.0	-891.7	629.3	582.1	13.324		
3,600.0	3,125.9	3,613.0	3,324.7	30.7	24.4	-142.67	699.9	-927.9	649.1	600.3	13.300		
3,700.0	3,206.1	3,711.0	3,410.8	31.8	25.3	-142.61	729.7	-964.2	668.8	618.4	13.275		
3,800.0	3,286.4	3,809.0	3,496.9	33.0	26.2	-142.55	759.6	-1,000.4	688.5	636.6	13.250		
3,900.0	3,366.7	3,907.1	3,582.9	34.1	27.1	-142.50	789.4	-1,036.6	708.3	654.7	13.225		
4,000.0	3,447.0	4,005.1	3,669.0	35.2	28.0	-142.45	819.2	-1,072.8	728.0	672.9	13.200		
4,100.0	3,527.3	4,103.1	3,755.1	36.4	28.8	-142.40	849.1	-1,109.0	747.7	691.0	13.176		
4,200.0	3,607.5	4,201.1	3,841.1	37.5	29.7	-142.35	878.9	-1,145.3	767.5	709.1	13.152		
4,300.0	3,687.8	4,299.2	3,927.2	38.6	30.6	-142.31	908.7	-1,181.5	787.2	727.3	13.128		
4,400.0	3,768.1	4,397.2	4,013.3	39.8	31.5	-142.27	938.6	-1,217.7	807.0	745.4	13.104		
4,500.0	3,848.4	4,495.2	4,099.3	40.9	32.4	-142.23	968.4	-1,253.9	826.7	763.5	13.082		
4,600.0	3,928.6	4,593.3	4,185.4	42.1	33.3	-142.19	998.3	-1,290.2	846.5	781.6	13.059		
4,700.0	4,008.9	4,691.3	4,271.5	43.2	34.2	-142.15	1,028.1	-1,326.4	866.2	799.8	13.037		
4,800.0	4,089.2	4,789.3	4,357.5	44.3	35.1	-142.12	1,057.9	-1,362.6	885.9	817.9	13.016		
4,900.0	4,169.5	4,887.4	4,443.6	45.5	36.0	-142.08	1,087.8	-1,398.8	905.7	836.0	12.995		
5,000.0	4,249.8	4,985.4	4,529.7	46.6	36.8	-142.05	1,117.6	-1,435.1	925.4	854.1	12.975		
5,100.0	4,330.0	5,083.4	4,615.7	47.7	37.7	-142.02	1,147.5	-1,471.3	945.2	872.2	12.955		

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



Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Laramie 0993-20-11E - Slot A-1
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-11E 0.0	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
5,200.0	4,410.3	5,181.5	4,701.8	48.9	38.6	-141.99	1,177.3	-1,507.5	964.9	890.3	12.936		
5,300.0	4,490.6	5,279.5	4,787.9	50.0	39.5	-141.96	1,207.1	-1,543.7	984.7	908.4	12.917		
5,400.0	4,570.9	5,377.5	4,873.9	51.2	40.4	-141.94	1,237.0	-1,580.0	1,004.4	926.5	12.899		
5,500.0	4,651.1	5,475.5	4,960.0	52.3	41.3	-141.91	1,266.8	-1,616.2	1,024.1	944.6	12.881		
5,600.0	4,731.5	5,552.2	5,027.8	53.4	42.0	-142.00	1,289.5	-1,643.7	1,044.8	964.0	12.932		
5,700.0	4,813.4	5,628.0	5,096.1	54.5	42.6	-142.39	1,310.4	-1,669.1	1,065.3	983.3	12.991		
5,800.0	4,897.9	5,700.0	5,161.9	55.5	43.1	-142.73	1,329.0	-1,691.7	1,084.5	1,001.4	13.047		
5,900.0	4,984.5	5,779.3	5,235.4	56.4	43.7	-143.06	1,347.9	-1,714.7	1,102.3	1,018.0	13.085		
6,000.0	5,073.3	5,854.7	5,306.2	57.3	44.1	-143.35	1,364.4	-1,734.7	1,118.7	1,033.5	13.130		
6,100.0	5,164.0	5,930.1	5,377.8	58.0	44.6	-143.61	1,379.4	-1,752.9	1,133.7	1,047.7	13.172		
6,200.0	5,256.4	6,000.0	5,444.9	58.7	44.9	-143.84	1,392.0	-1,768.1	1,147.4	1,060.6	13.225		
6,300.0	5,350.4	6,080.6	5,522.9	59.3	45.3	-144.05	1,404.8	-1,783.8	1,159.5	1,072.0	13.251		
6,400.0	5,445.8	6,155.7	5,596.2	59.8	45.5	-144.24	1,415.3	-1,796.4	1,170.3	1,082.2	13.287		
6,500.0	5,542.4	6,230.8	5,669.9	60.3	45.8	-144.40	1,424.1	-1,807.2	1,179.6	1,091.1	13.321		
6,600.0	5,640.1	6,300.0	5,738.3	60.6	46.0	-144.54	1,430.9	-1,815.4	1,187.5	1,098.6	13.368		
6,700.0	5,738.6	6,380.8	5,818.5	60.9	46.1	-144.66	1,437.2	-1,823.1	1,193.8	1,104.6	13.384		
6,800.0	5,837.7	6,455.7	5,893.1	61.1	46.3	-144.75	1,441.5	-1,828.2	1,198.7	1,109.4	13.414		
6,900.0	5,937.4	6,530.6	5,967.9	61.3	46.3	-144.82	1,444.1	-1,831.4	1,202.2	1,112.7	13.442		
7,000.0	6,037.3	6,605.5	6,042.7	61.4	46.4	-144.87	1,445.2	-1,832.8	1,204.1	1,114.8	13.472		
7,100.0	6,137.3	6,700.0	6,137.3	61.4	46.4	179.78	1,445.3	-1,832.8	1,204.5	1,115.1	13.478		
7,200.0	6,237.3	6,800.0	6,237.3	61.4	46.4	179.78	1,445.3	-1,832.8	1,204.5	1,115.1	13.471		
7,300.0	6,337.3	6,900.0	6,337.3	61.4	46.4	179.78	1,445.3	-1,832.8	1,204.5	1,115.0	13.463		
7,400.0	6,437.3	7,000.0	6,437.3	61.4	46.5	179.78	1,445.3	-1,832.8	1,204.5	1,115.0	13.455		
7,500.0	6,537.3	7,100.0	6,537.3	61.4	46.5	179.78	1,445.3	-1,832.8	1,204.5	1,114.9	13.447		
7,600.0	6,637.3	7,200.0	6,637.3	61.4	46.5	179.78	1,445.3	-1,832.8	1,204.5	1,114.8	13.439		
7,700.0	6,737.3	7,300.0	6,737.3	61.5	46.5	179.78	1,445.3	-1,832.8	1,204.5	1,114.8	13.430		
7,800.0	6,837.3	7,400.0	6,837.3	61.5	46.6	179.78	1,445.3	-1,832.8	1,204.5	1,114.7	13.422		
7,900.0	6,937.3	7,500.0	6,937.3	61.5	46.6	179.78	1,445.3	-1,832.8	1,204.5	1,114.7	13.414		
8,000.0	7,037.3	7,600.0	7,037.3	61.5	46.6	179.78	1,445.3	-1,832.8	1,204.5	1,114.6	13.406		
8,100.0	7,137.3	7,700.0	7,137.3	61.5	46.6	179.78	1,445.3	-1,832.8	1,204.5	1,114.6	13.398		
8,200.0	7,237.3	7,800.0	7,237.3	61.5	46.7	179.78	1,445.3	-1,832.8	1,204.5	1,114.5	13.390		
8,300.0	7,337.3	7,900.0	7,337.3	61.6	46.7	179.78	1,445.3	-1,832.8	1,204.5	1,114.5	13.381		
8,400.0	7,437.3	8,000.0	7,437.3	61.6	46.7	179.78	1,445.3	-1,832.8	1,204.5	1,114.4	13.373		
8,500.0	7,537.3	8,100.0	7,537.3	61.6	46.7	179.78	1,445.3	-1,832.8	1,204.5	1,114.4	13.365		
8,600.0	7,637.3	8,200.0	7,637.3	61.6	46.8	179.78	1,445.3	-1,832.8	1,204.5	1,114.3	13.356		
8,700.0	7,737.3	8,300.0	7,737.3	61.6	46.8	179.78	1,445.3	-1,832.8	1,204.5	1,114.2	13.348		
8,715.5	7,752.8	8,315.5	7,752.8	61.6	46.8	179.78	1,445.3	-1,832.8	1,204.5	1,114.2	13.347		
8,800.0	7,837.3	8,396.7	7,834.0	61.6	46.8	179.78	1,445.3	-1,832.8	1,204.5	1,114.2	13.348		
8,821.7	7,859.0	8,396.7	7,834.0	61.6	46.8	179.78	1,445.3	-1,832.8	1,204.7	1,114.9	13.405		

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Laramie 0993-20-11E - Slot A-1
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-11E	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	133.31	-55.0	58.3	80.2				
100.0	100.0	100.0	100.0	0.4	0.4	133.31	-55.0	58.3	80.2	79.4	101.209		
200.0	200.0	200.0	200.0	1.2	1.2	133.31	-55.0	58.3	80.2	77.7	32.448	CC, ES	
300.0	300.0	300.0	300.0	2.4	1.7	139.30	-55.0	58.3	81.8	77.9	21.141		
400.0	399.7	399.7	399.7	3.9	2.1	142.03	-55.0	58.3	86.9	81.4	15.804		
500.0	499.2	499.2	499.2	5.0	2.4	156.53	-55.0	58.3	96.1	89.2	14.010		
600.0	598.1	601.0	600.9	5.8	3.1	165.99	-55.0	56.1	108.6	100.3	13.117		
700.0	696.3	702.3	702.1	6.6	4.4	173.92	-55.0	49.4	123.3	113.5	12.558	SF	
800.0	793.7	803.1	802.2	7.3	5.4	-179.00	-55.0	38.3	140.8	129.7	12.714		
900.0	890.0	906.4	904.3	8.0	5.7	-172.78	-53.9	22.9	160.6	148.5	13.370		
1,000.0	985.0	1,010.9	1,007.0	8.7	6.3	-167.74	-49.4	3.9	181.0	167.7	13.632		
1,100.0	1,078.6	1,116.0	1,109.4	9.3	7.0	-163.58	-41.6	-18.6	201.9	187.4	13.905		
1,200.0	1,170.7	1,221.9	1,211.4	10.0	7.7	-160.05	-30.4	-44.5	223.2	207.5	14.244		
1,300.0	1,260.9	1,328.5	1,312.8	10.6	8.4	-157.00	-15.7	-73.9	244.7	227.9	14.568		
1,400.0	1,349.2	1,435.8	1,413.3	11.2	9.1	-154.31	2.6	-106.8	266.3	248.4	14.838		
1,500.0	1,435.3	1,543.8	1,512.6	11.7	9.7	-151.90	24.4	-143.2	288.1	268.9	15.044		
1,600.0	1,519.2	1,650.6	1,608.8	12.3	10.3	-149.74	49.2	-182.3	309.8	289.6	15.272		
1,700.0	1,600.6	1,747.5	1,695.5	12.8	10.6	-148.22	72.9	-218.7	333.9	312.5	15.602		
1,800.0	1,680.9	1,844.1	1,781.8	13.1	10.9	-147.63	96.4	-255.1	359.6	337.1	16.032		
1,900.0	1,761.2	1,940.7	1,868.1	13.5	11.3	-147.13	119.9	-291.5	385.3	361.7	16.368		
2,000.0	1,841.4	2,037.3	1,954.5	14.0	11.6	-146.69	143.5	-327.8	411.0	386.3	16.635		
2,100.0	1,921.7	2,133.9	2,040.8	14.6	12.0	-146.29	167.0	-364.2	436.7	410.8	16.845		
2,200.0	2,002.0	2,230.5	2,127.1	15.4	12.5	-145.95	190.6	-400.6	462.5	435.3	17.008		
2,300.0	2,082.3	2,327.1	2,213.5	16.3	13.0	-145.64	214.1	-436.9	488.2	459.7	17.135		
2,400.0	2,162.5	2,423.7	2,299.8	17.4	13.5	-145.36	237.7	-473.3	514.0	484.2	17.232		
2,500.0	2,242.8	2,520.3	2,386.1	18.4	14.1	-145.10	261.2	-509.7	539.8	508.6	17.305		
2,600.0	2,323.1	2,616.9	2,472.4	19.5	14.8	-144.87	284.8	-546.0	565.6	533.0	17.358		
2,700.0	2,403.4	2,713.4	2,558.8	20.6	15.6	-144.66	308.3	-582.4	591.4	557.4	17.396		
2,800.0	2,483.7	2,810.0	2,645.1	21.7	16.3	-144.47	331.8	-618.8	617.2	581.8	17.422		
2,900.0	2,563.9	2,906.6	2,731.4	22.8	17.1	-144.30	355.4	-655.1	643.0	606.1	17.437		
3,000.0	2,644.2	3,003.2	2,817.8	24.0	17.9	-144.13	378.9	-691.5	668.8	630.5	17.445		
3,100.0	2,724.5	3,099.8	2,904.1	25.1	18.7	-143.98	402.5	-727.9	694.7	654.9	17.446		
3,200.0	2,804.8	3,196.4	2,990.4	26.2	19.5	-143.84	426.0	-764.2	720.5	679.2	17.442		
3,300.0	2,885.0	3,293.0	3,076.8	27.3	20.2	-143.71	449.6	-800.6	746.3	703.5	17.433		
3,400.0	2,965.3	3,389.6	3,163.1	28.5	21.0	-143.59	473.1	-837.0	772.2	727.9	17.422		
3,500.0	3,045.6	3,486.2	3,249.4	29.6	21.9	-143.48	496.7	-873.3	798.0	752.2	17.408		
3,600.0	3,125.9	3,582.8	3,335.8	30.7	22.7	-143.37	520.2	-909.7	823.9	776.5	17.392		
3,700.0	3,206.1	3,679.4	3,422.1	31.8	23.5	-143.27	543.7	-946.1	849.7	800.8	17.374		
3,800.0	3,286.4	3,776.0	3,508.4	33.0	24.3	-143.17	567.3	-982.4	875.6	825.1	17.356		
3,900.0	3,366.7	3,872.5	3,594.8	34.1	25.1	-143.08	590.8	-1,018.8	901.4	849.4	17.336		
4,000.0	3,447.0	3,969.1	3,681.1	35.2	25.9	-143.00	614.4	-1,055.2	927.3	873.7	17.316		
4,100.0	3,527.3	4,065.7	3,767.4	36.4	26.7	-142.92	637.9	-1,091.5	953.1	898.0	17.295		
4,200.0	3,607.5	4,162.3	3,853.8	37.5	27.5	-142.85	661.5	-1,127.9	979.0	922.3	17.274		
4,300.0	3,687.8	4,258.9	3,940.1	38.6	28.3	-142.78	685.0	-1,164.2	1,004.8	946.6	17.253		
4,400.0	3,768.1	4,355.5	4,026.4	39.8	29.2	-142.71	708.5	-1,200.6	1,030.7	970.9	17.232		
4,500.0	3,848.4	4,452.1	4,112.8	40.9	30.0	-142.64	732.1	-1,237.0	1,056.6	995.2	17.211		
4,600.0	3,928.6	4,548.7	4,199.1	42.1	30.8	-142.58	755.6	-1,273.3	1,082.4	1,019.4	17.190		
4,700.0	4,008.9	4,645.3	4,285.4	43.2	31.6	-142.52	779.2	-1,309.7	1,108.3	1,043.7	17.169		
4,800.0	4,089.2	4,741.9	4,371.7	44.3	32.4	-142.47	802.7	-1,346.1	1,134.1	1,068.0	17.149		
4,900.0	4,169.5	4,838.5	4,458.1	45.5	33.3	-142.41	826.3	-1,382.4	1,160.0	1,092.3	17.129		
5,000.0	4,249.8	4,935.1	4,544.4	46.6	34.1	-142.36	849.8	-1,418.8	1,185.9	1,116.6	17.109		
5,100.0	4,330.0	5,031.6	4,630.7	47.7	34.9	-142.31	873.4	-1,455.2	1,211.7	1,140.8	17.089		

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Laramie 0993-20-11E - Slot A-1
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-11E	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
5,200.0	4,410.3	5,128.2	4,717.1	48.9	35.7	-142.27	896.9	-1,491.5	1,237.6	1,165.1	17.070		
5,300.0	4,490.6	5,224.8	4,803.4	50.0	36.6	-142.22	920.4	-1,527.9	1,263.5	1,189.4	17.052		
5,400.0	4,570.9	5,321.4	4,889.7	51.2	37.4	-142.18	944.0	-1,564.3	1,289.3	1,213.6	17.033		
5,500.0	4,651.1	5,418.0	4,976.1	52.3	38.2	-142.14	967.5	-1,600.6	1,315.2	1,237.9	17.015		
5,600.0	4,731.5	5,500.0	5,049.4	53.4	38.9	-142.18	987.4	-1,631.3	1,341.2	1,262.6	17.049		
5,700.0	4,813.4	5,576.6	5,118.9	54.5	39.5	-142.57	1,005.0	-1,658.5	1,366.5	1,286.6	17.099		
5,800.0	4,897.9	5,649.7	5,186.1	55.5	40.0	-142.93	1,020.5	-1,682.5	1,390.1	1,309.0	17.146		
5,900.0	4,984.5	5,722.7	5,254.2	56.4	40.5	-143.26	1,034.9	-1,704.7	1,412.0	1,329.8	17.188		
6,000.0	5,073.3	5,800.0	5,327.1	57.3	41.0	-143.56	1,048.8	-1,726.2	1,432.2	1,349.0	17.215		
6,100.0	5,164.0	5,868.7	5,392.7	58.0	41.3	-143.83	1,060.1	-1,743.5	1,450.7	1,366.7	17.268		
6,200.0	5,256.4	5,941.7	5,462.9	58.7	41.7	-144.07	1,070.8	-1,760.2	1,467.4	1,382.6	17.304		
6,300.0	5,350.4	6,014.8	5,533.8	59.3	42.0	-144.29	1,080.4	-1,774.9	1,482.4	1,396.9	17.338		
6,400.0	5,445.8	6,100.0	5,617.2	59.8	42.3	-144.48	1,090.0	-1,789.8	1,495.7	1,409.4	17.335		
6,500.0	5,542.4	6,160.9	5,677.1	60.3	42.5	-144.65	1,095.8	-1,798.7	1,507.0	1,420.4	17.399		
6,600.0	5,640.1	6,233.9	5,749.4	60.6	42.7	-144.79	1,101.6	-1,807.7	1,516.7	1,429.6	17.426		
6,700.0	5,738.6	6,300.0	5,815.0	60.9	42.8	-144.91	1,105.8	-1,814.2	1,524.5	1,437.2	17.470		
6,800.0	5,837.7	6,380.1	5,894.7	61.1	42.9	-145.01	1,109.5	-1,819.9	1,530.5	1,442.9	17.474		
6,900.0	5,937.4	6,453.1	5,967.7	61.3	43.0	-145.08	1,111.6	-1,823.1	1,534.7	1,447.0	17.498		
7,000.0	6,037.3	6,526.1	6,040.7	61.4	43.1	-145.14	1,112.4	-1,824.4	1,537.0	1,449.3	17.524		
7,100.0	6,137.3	6,622.7	6,137.3	61.4	43.1	179.51	1,112.4	-1,824.4	1,537.4	1,449.7	17.521		
7,200.0	6,237.3	6,722.7	6,237.3	61.4	43.1	179.51	1,112.4	-1,824.4	1,537.4	1,449.6	17.511		
7,300.0	6,337.3	6,822.7	6,337.3	61.4	43.1	179.51	1,112.4	-1,824.4	1,537.4	1,449.6	17.500		
7,400.0	6,437.3	6,922.7	6,437.3	61.4	43.2	179.51	1,112.4	-1,824.4	1,537.4	1,449.5	17.489		
7,500.0	6,537.3	7,022.7	6,537.3	61.4	43.2	179.51	1,112.4	-1,824.4	1,537.4	1,449.5	17.478		
7,600.0	6,637.3	7,122.7	6,637.3	61.4	43.2	179.51	1,112.4	-1,824.4	1,537.4	1,449.4	17.468		
7,700.0	6,737.3	7,222.7	6,737.3	61.5	43.2	179.51	1,112.4	-1,824.4	1,537.4	1,449.3	17.457		
7,800.0	6,837.3	7,322.7	6,837.3	61.5	43.3	179.51	1,112.4	-1,824.4	1,537.4	1,449.3	17.446		
7,900.0	6,937.3	7,422.7	6,937.3	61.5	43.3	179.51	1,112.4	-1,824.4	1,537.4	1,449.2	17.435		
8,000.0	7,037.3	7,522.7	7,037.3	61.5	43.3	179.51	1,112.4	-1,824.4	1,537.4	1,449.2	17.424		
8,100.0	7,137.3	7,622.7	7,137.3	61.5	43.3	179.51	1,112.4	-1,824.4	1,537.4	1,449.1	17.413		
8,200.0	7,237.3	7,722.7	7,237.3	61.5	43.4	179.51	1,112.4	-1,824.4	1,537.4	1,449.1	17.402		
8,300.0	7,337.3	7,822.7	7,337.3	61.6	43.4	179.51	1,112.4	-1,824.4	1,537.4	1,449.0	17.391		
8,400.0	7,437.3	7,922.7	7,437.3	61.6	43.4	179.51	1,112.4	-1,824.4	1,537.4	1,449.0	17.379		
8,500.0	7,537.3	8,022.7	7,537.3	61.6	43.5	179.51	1,112.4	-1,824.4	1,537.4	1,448.9	17.368		
8,600.0	7,637.3	8,122.7	7,637.3	61.6	43.5	179.51	1,112.4	-1,824.4	1,537.4	1,448.8	17.357		
8,700.0	7,737.3	8,222.7	7,737.3	61.6	43.5	179.51	1,112.4	-1,824.4	1,537.4	1,448.8	17.346		
8,800.0	7,837.3	8,322.7	7,837.3	61.6	43.5	179.51	1,112.4	-1,824.4	1,537.4	1,448.7	17.334		
8,821.7	7,859.0	8,344.4	7,859.0	61.6	43.5	179.51	1,112.4	-1,824.4	1,537.4	1,448.7	17.332		

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Laramie 0993-20-11E - Slot A-1
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-11E	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	133.31	-65.9	69.9	96.1				
100.0	100.0	100.0	100.0	0.4	0.4	133.31	-65.9	69.9	96.1	95.3	121.340		
200.0	200.0	200.0	200.0	1.2	1.2	133.31	-65.9	69.9	96.1	93.6	38.902	CC, ES	
300.0	300.0	300.0	300.0	2.4	1.7	139.13	-65.9	69.9	97.8	93.9	25.274		
400.0	399.7	401.9	401.8	3.9	2.1	142.07	-66.0	68.7	102.0	96.6	18.891		
500.0	499.2	503.9	503.7	5.0	3.5	158.65	-66.5	63.0	108.1	100.9	15.030		
600.0	598.1	605.2	604.5	5.8	4.7	170.92	-67.4	52.9	117.3	108.6	13.544		
700.0	696.3	707.3	705.6	6.6	5.1	-178.80	-68.1	38.4	129.9	120.3	13.451		
800.0	793.7	810.7	807.3	7.3	5.6	-170.41	-66.2	20.1	144.5	133.5	13.159		
900.0	890.0	914.1	908.3	8.0	6.4	-163.47	-61.5	-1.9	160.5	148.2	13.069	SF	
1,000.0	985.0	1,017.7	1,008.3	8.7	7.1	-157.60	-53.9	-27.4	177.9	164.6	13.319		
1,100.0	1,078.6	1,121.3	1,107.2	9.3	7.9	-152.55	-43.4	-56.5	196.6	182.2	13.698		
1,200.0	1,170.7	1,225.1	1,204.8	10.0	8.6	-148.16	-30.1	-89.1	216.3	200.9	14.097		
1,300.0	1,260.9	1,328.9	1,300.8	10.6	9.1	-144.29	-14.1	-125.1	237.0	220.7	14.516		
1,400.0	1,349.2	1,426.6	1,390.2	11.2	9.4	-141.28	2.6	-160.9	259.6	242.3	14.997		
1,500.0	1,435.3	1,523.0	1,478.4	11.7	9.8	-139.27	19.1	-196.3	285.5	267.0	15.476		
1,600.0	1,519.2	1,618.8	1,566.0	12.3	10.1	-138.05	35.5	-231.3	314.3	294.6	15.965		
1,700.0	1,600.6	1,713.6	1,652.7	12.8	10.5	-137.46	51.8	-266.1	345.9	325.0	16.489		
1,800.0	1,680.9	1,808.0	1,739.0	13.1	10.8	-137.93	67.9	-300.7	378.9	356.7	17.082		
1,900.0	1,761.2	1,902.4	1,825.3	13.5	11.2	-138.31	84.1	-335.3	411.8	388.4	17.585		
2,000.0	1,841.4	1,996.8	1,911.6	14.0	11.6	-138.64	100.2	-369.9	444.8	420.1	18.018		
2,100.0	1,921.7	2,091.1	1,998.0	14.6	12.1	-138.93	116.4	-404.5	477.8	451.8	18.393		
2,200.0	2,002.0	2,185.5	2,084.3	15.4	12.5	-139.18	132.5	-439.0	510.7	483.5	18.718		
2,300.0	2,082.3	2,279.9	2,170.6	16.3	13.0	-139.40	148.7	-473.6	543.7	515.1	19.000		
2,400.0	2,162.5	2,374.3	2,256.9	17.4	13.5	-139.59	164.8	-508.2	576.7	546.8	19.248		
2,500.0	2,242.8	2,468.7	2,343.2	18.4	14.1	-139.76	181.0	-542.8	609.7	578.4	19.465		
2,600.0	2,323.1	2,563.0	2,429.6	19.5	14.7	-139.91	197.1	-577.4	642.8	610.1	19.656		
2,700.0	2,403.4	2,657.4	2,515.9	20.6	15.4	-140.05	213.3	-612.0	675.8	641.7	19.826		
2,800.0	2,483.7	2,751.8	2,602.2	21.7	16.1	-140.18	229.4	-646.6	708.8	673.3	19.976		
2,900.0	2,563.9	2,846.2	2,688.5	22.8	16.7	-140.30	245.6	-681.2	741.8	704.9	20.110		
3,000.0	2,644.2	2,940.6	2,774.8	24.0	17.4	-140.40	261.7	-715.7	774.8	736.5	20.230		
3,100.0	2,724.5	3,035.0	2,861.1	25.1	18.1	-140.50	277.9	-750.3	807.8	768.1	20.337		
3,200.0	2,804.8	3,129.3	2,947.5	26.2	18.8	-140.59	294.0	-784.9	840.9	799.7	20.434		
3,300.0	2,885.0	3,223.7	3,033.8	27.3	19.5	-140.67	310.2	-819.5	873.9	831.3	20.521		
3,400.0	2,965.3	3,318.1	3,120.1	28.5	20.2	-140.75	326.3	-854.1	906.9	862.9	20.600		
3,500.0	3,045.6	3,412.5	3,206.4	29.6	20.9	-140.82	342.5	-888.7	940.0	894.5	20.672		
3,600.0	3,125.9	3,506.9	3,292.7	30.7	21.6	-140.88	358.6	-923.3	973.0	926.1	20.737		
3,700.0	3,206.1	3,601.2	3,379.0	31.8	22.3	-140.94	374.8	-957.9	1,006.0	957.7	20.797		
3,800.0	3,286.4	3,695.6	3,465.4	33.0	23.0	-141.00	390.9	-992.4	1,039.1	989.2	20.851		
3,900.0	3,366.7	3,790.0	3,551.7	34.1	23.8	-141.06	407.1	-1,027.0	1,072.1	1,020.8	20.901		
4,000.0	3,447.0	3,884.4	3,638.0	35.2	24.5	-141.11	423.2	-1,061.6	1,105.1	1,052.4	20.947		
4,100.0	3,527.3	3,978.8	3,724.3	36.4	25.2	-141.16	439.4	-1,096.2	1,138.2	1,083.9	20.989		
4,200.0	3,607.5	4,073.1	3,810.6	37.5	25.9	-141.20	455.5	-1,130.8	1,171.2	1,115.5	21.027		
4,300.0	3,687.8	4,167.5	3,896.9	38.6	26.6	-141.24	471.7	-1,165.4	1,204.2	1,147.1	21.063		
4,400.0	3,768.1	4,261.9	3,983.3	39.8	27.3	-141.29	487.8	-1,200.0	1,237.3	1,178.6	21.096		
4,500.0	3,848.4	4,356.3	4,069.6	40.9	28.0	-141.32	504.0	-1,234.6	1,270.3	1,210.2	21.127		
4,600.0	3,928.6	4,450.7	4,155.9	42.1	28.8	-141.36	520.1	-1,269.1	1,303.4	1,241.7	21.156		
4,700.0	4,008.9	4,545.1	4,242.2	43.2	29.5	-141.39	536.3	-1,303.7	1,336.4	1,273.3	21.182		
4,800.0	4,089.2	4,639.4	4,328.5	44.3	30.2	-141.43	552.4	-1,338.3	1,369.4	1,304.9	21.207		
4,900.0	4,169.5	4,733.8	4,414.9	45.5	30.9	-141.46	568.6	-1,372.9	1,402.5	1,336.4	21.230		
5,000.0	4,249.8	4,828.2	4,501.2	46.6	31.6	-141.49	584.7	-1,407.5	1,435.5	1,368.0	21.252		
5,100.0	4,330.0	4,922.6	4,587.5	47.7	32.4	-141.52	600.9	-1,442.1	1,468.6	1,399.5	21.272		

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Laramie 0993-20-11E - Slot A-1
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-11E	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
5,200.0	4,410.3	5,017.0	4,673.8	48.9	33.1	-141.55	617.0	-1,476.7	1,501.6	1,431.1	21.291		
5,300.0	4,490.6	5,111.3	4,760.1	50.0	33.8	-141.57	633.2	-1,511.3	1,534.6	1,462.6	21.308		
5,400.0	4,570.9	5,205.7	4,846.4	51.2	34.5	-141.60	649.3	-1,545.8	1,567.7	1,494.2	21.325		
5,500.0	4,651.1	5,300.1	4,932.8	52.3	35.2	-141.62	665.5	-1,580.4	1,600.7	1,525.7	21.341		
5,600.0	4,731.5	5,394.5	5,019.1	53.4	36.0	-141.74	681.6	-1,615.0	1,633.7	1,557.2	21.356		
5,700.0	4,813.4	5,489.6	5,106.1	54.5	36.7	-142.19	697.9	-1,649.9	1,664.6	1,586.5	21.335		
5,800.0	4,897.9	5,564.8	5,175.2	55.5	37.2	-142.56	710.4	-1,676.6	1,692.7	1,613.4	21.360		
5,900.0	4,984.5	5,637.8	5,243.2	56.4	37.7	-142.90	721.6	-1,700.7	1,718.7	1,638.4	21.389		
6,000.0	5,073.3	5,700.0	5,301.8	57.3	38.1	-143.22	730.4	-1,719.6	1,742.8	1,661.6	21.452		
6,100.0	5,164.0	5,784.4	5,382.1	58.0	38.6	-143.49	741.3	-1,743.0	1,764.8	1,682.4	21.435		
6,200.0	5,256.4	5,857.9	5,452.9	58.7	38.9	-143.74	749.8	-1,761.1	1,784.7	1,701.5	21.457		
6,300.0	5,350.4	5,931.6	5,524.4	59.3	39.3	-143.96	757.4	-1,777.3	1,802.5	1,718.5	21.475		
6,400.0	5,445.8	6,000.0	5,591.2	59.8	39.5	-144.17	763.5	-1,790.3	1,818.2	1,733.6	21.508		
6,500.0	5,542.4	6,079.4	5,669.4	60.3	39.8	-144.34	769.5	-1,803.3	1,831.7	1,746.5	21.507		
6,600.0	5,640.1	6,153.5	5,742.6	60.6	40.0	-144.49	774.1	-1,813.1	1,843.1	1,757.5	21.520		
6,700.0	5,738.6	6,227.6	5,816.2	60.9	40.1	-144.61	777.7	-1,820.8	1,852.3	1,766.3	21.531		
6,800.0	5,837.7	6,300.0	5,888.4	61.1	40.2	-144.71	780.2	-1,826.2	1,859.4	1,773.1	21.543		
6,900.0	5,937.4	6,376.0	5,964.3	61.3	40.3	-144.79	781.8	-1,829.7	1,864.3	1,777.8	21.549		
7,000.0	6,037.3	6,453.7	6,042.0	61.4	40.3	-144.85	782.4	-1,830.9	1,867.0	1,780.4	21.554		
7,100.0	6,137.3	6,549.0	6,137.3	61.4	40.4	179.80	782.4	-1,830.9	1,867.4	1,780.7	21.550		
7,200.0	6,237.3	6,649.0	6,237.3	61.4	40.4	179.80	782.4	-1,830.9	1,867.4	1,780.7	21.538		
7,300.0	6,337.3	6,749.0	6,337.3	61.4	40.4	179.80	782.4	-1,830.9	1,867.4	1,780.6	21.524		
7,400.0	6,437.3	6,849.0	6,437.3	61.4	40.4	179.80	782.4	-1,830.9	1,867.4	1,780.5	21.511		
7,500.0	6,537.3	6,949.0	6,537.3	61.4	40.5	179.80	782.4	-1,830.9	1,867.4	1,780.5	21.497		
7,600.0	6,637.3	7,049.0	6,637.3	61.4	40.5	179.80	782.4	-1,830.9	1,867.4	1,780.4	21.484		
7,700.0	6,737.3	7,149.0	6,737.3	61.5	40.5	179.80	782.4	-1,830.9	1,867.4	1,780.4	21.470		
7,800.0	6,837.3	7,249.0	6,837.3	61.5	40.6	179.80	782.4	-1,830.9	1,867.4	1,780.3	21.457		
7,900.0	6,937.3	7,349.0	6,937.3	61.5	40.6	179.80	782.4	-1,830.9	1,867.4	1,780.3	21.443		
8,000.0	7,037.3	7,449.0	7,037.3	61.5	40.6	179.80	782.4	-1,830.9	1,867.4	1,780.2	21.429		
8,100.0	7,137.3	7,549.0	7,137.3	61.5	40.6	179.80	782.4	-1,830.9	1,867.4	1,780.2	21.415		
8,200.0	7,237.3	7,649.0	7,237.3	61.5	40.7	179.80	782.4	-1,830.9	1,867.4	1,780.1	21.401		
8,300.0	7,337.3	7,749.0	7,337.3	61.6	40.7	179.80	782.4	-1,830.9	1,867.4	1,780.0	21.388		
8,400.0	7,437.3	7,849.0	7,437.3	61.6	40.7	179.80	782.4	-1,830.9	1,867.4	1,780.0	21.374		
8,500.0	7,537.3	7,949.0	7,537.3	61.6	40.8	179.80	782.4	-1,830.9	1,867.4	1,779.9	21.360		
8,600.0	7,637.3	8,049.0	7,637.3	61.6	40.8	179.80	782.4	-1,830.9	1,867.4	1,779.9	21.346		
8,700.0	7,737.3	8,149.0	7,737.3	61.6	40.8	179.80	782.4	-1,830.9	1,867.4	1,779.8	21.331		
8,708.2	7,745.5	8,157.2	7,745.5	61.6	40.8	179.80	782.4	-1,830.9	1,867.4	1,779.8	21.330		
8,800.0	7,837.3	8,228.7	7,817.0	61.6	40.8	179.80	782.4	-1,830.9	1,867.5	1,780.1	21.367		
8,821.7	7,859.0	8,228.7	7,817.0	61.6	40.8	179.80	782.4	-1,830.9	1,867.8	1,780.6	21.421		

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Laramie 0993-20-11E - Slot A-1
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-11E	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	133.30	-76.8	81.6	112.1				
100.0	100.0	100.0	100.0	0.4	0.4	133.30	-76.8	81.6	112.1	111.3	141.471		
200.0	200.0	200.0	200.0	1.2	1.2	133.30	-76.8	81.6	112.1	109.6	45.357	CC, ES	
300.0	300.0	301.4	301.4	2.4	1.5	139.26	-77.0	81.0	113.4	109.7	31.213		
400.0	399.7	403.7	403.6	3.9	2.9	143.25	-77.9	76.5	116.1	110.5	20.750		
500.0	499.2	505.1	504.6	5.0	4.3	160.72	-79.8	67.7	121.6	114.3	16.798		
600.0	598.1	605.3	603.9	5.8	5.4	173.70	-82.6	54.7	131.3	122.8	15.454		
700.0	696.3	708.1	705.2	6.6	5.7	-175.59	-84.7	37.2	144.7	135.1	14.975		
800.0	793.7	811.0	805.8	7.3	6.3	-166.85	-84.4	15.9	160.5	149.3	14.384		
900.0	890.0	913.7	905.4	8.0	7.0	-159.55	-81.5	-9.0	178.4	166.0	14.342	SF	
1,000.0	985.0	1,016.2	1,003.7	8.7	7.7	-153.36	-76.1	-37.6	198.2	184.6	14.627		
1,100.0	1,078.6	1,118.6	1,100.5	9.3	8.4	-148.04	-68.3	-69.8	219.7	205.2	15.110		
1,200.0	1,170.7	1,220.4	1,195.4	10.0	9.0	-143.44	-58.0	-105.3	242.9	227.4	15.678		
1,300.0	1,260.9	1,316.5	1,284.2	10.6	9.3	-139.98	-47.3	-140.2	268.6	252.2	16.329		
1,400.0	1,349.2	1,412.0	1,372.6	11.2	9.6	-137.59	-36.6	-175.0	297.6	280.1	16.988		
1,500.0	1,435.3	1,506.7	1,460.2	11.7	9.9	-136.06	-26.0	-209.5	329.4	310.7	17.650		
1,600.0	1,519.2	1,600.6	1,547.0	12.3	10.3	-135.16	-15.5	-243.6	363.9	344.0	18.306		
1,700.0	1,600.6	1,693.4	1,632.8	12.8	10.6	-134.78	-5.2	-277.3	401.0	379.9	18.979		
1,800.0	1,680.9	1,785.6	1,718.0	13.1	11.0	-135.51	5.1	-310.9	439.3	417.1	19.710		
1,900.0	1,761.2	1,877.8	1,803.3	13.5	11.4	-136.12	15.4	-344.4	477.8	454.3	20.340		
2,000.0	1,841.4	1,970.0	1,888.6	14.0	11.8	-136.64	25.7	-378.0	516.2	491.5	20.891		
2,100.0	1,921.7	2,062.2	1,973.9	14.6	12.2	-137.09	36.0	-411.5	554.7	528.7	21.373		
2,200.0	2,002.0	2,154.4	2,059.2	15.4	12.6	-137.48	46.3	-445.1	593.2	566.0	21.798		
2,300.0	2,082.3	2,246.7	2,144.4	16.3	13.1	-137.83	56.7	-478.6	631.7	603.2	22.172		
2,400.0	2,162.5	2,338.9	2,229.7	17.4	13.6	-138.13	67.0	-512.2	670.3	640.5	22.504		
2,500.0	2,242.8	2,431.1	2,315.0	18.4	14.1	-138.41	77.3	-545.7	708.8	677.7	22.800		
2,600.0	2,323.1	2,523.3	2,400.3	19.5	14.6	-138.65	87.6	-579.2	747.4	715.0	23.063		
2,700.0	2,403.4	2,615.5	2,485.6	20.6	15.2	-138.87	97.9	-612.8	786.0	752.2	23.299		
2,800.0	2,483.7	2,707.7	2,570.8	21.7	15.8	-139.07	108.2	-646.3	824.6	789.5	23.511		
2,900.0	2,563.9	2,800.0	2,656.1	22.8	16.4	-139.25	118.5	-679.9	863.2	826.7	23.702		
3,000.0	2,644.2	2,892.2	2,741.4	24.0	17.0	-139.41	128.8	-713.4	901.8	864.0	23.874		
3,100.0	2,724.5	2,984.4	2,826.7	25.1	17.6	-139.57	139.1	-747.0	940.4	901.3	24.031		
3,200.0	2,804.8	3,076.6	2,912.0	26.2	18.3	-139.71	149.4	-780.5	979.0	938.5	24.173		
3,300.0	2,885.0	3,168.8	2,997.2	27.3	18.9	-139.84	159.7	-814.1	1,017.6	975.7	24.303		
3,400.0	2,965.3	3,261.1	3,082.5	28.5	19.5	-139.96	170.0	-847.6	1,056.2	1,013.0	24.421		
3,500.0	3,045.6	3,353.3	3,167.8	29.6	20.2	-140.07	180.3	-881.2	1,094.9	1,050.2	24.530		
3,600.0	3,125.9	3,445.5	3,253.1	30.7	20.8	-140.17	190.6	-914.7	1,133.5	1,087.5	24.630		
3,700.0	3,206.1	3,537.7	3,338.4	31.8	21.5	-140.27	200.9	-948.2	1,172.1	1,124.7	24.722		
3,800.0	3,286.4	3,629.9	3,423.6	33.0	22.1	-140.36	211.2	-981.8	1,210.8	1,162.0	24.807		
3,900.0	3,366.7	3,722.1	3,508.9	34.1	22.8	-140.45	221.5	-1,015.3	1,249.4	1,199.2	24.886		
4,000.0	3,447.0	3,814.4	3,594.2	35.2	23.4	-140.53	231.8	-1,048.9	1,288.1	1,236.5	24.959		
4,100.0	3,527.3	3,906.6	3,679.5	36.4	24.1	-140.60	242.1	-1,082.4	1,326.7	1,273.7	25.026		
4,200.0	3,607.5	3,998.8	3,764.8	37.5	24.7	-140.67	252.4	-1,116.0	1,365.4	1,310.9	25.089		
4,300.0	3,687.8	4,091.0	3,850.0	38.6	25.4	-140.74	262.7	-1,149.5	1,404.0	1,348.2	25.148		
4,400.0	3,768.1	4,183.2	3,935.3	39.8	26.0	-140.80	273.0	-1,183.1	1,442.7	1,385.4	25.203		
4,500.0	3,848.4	4,275.4	4,020.6	40.9	26.7	-140.86	283.3	-1,216.6	1,481.3	1,422.6	25.254		
4,600.0	3,928.6	4,367.7	4,105.9	42.1	27.3	-140.92	293.6	-1,250.2	1,520.0	1,459.9	25.302		
4,700.0	4,008.9	4,459.9	4,191.2	43.2	28.0	-140.98	303.9	-1,283.7	1,558.6	1,497.1	25.347		
4,800.0	4,089.2	4,552.1	4,276.4	44.3	28.6	-141.03	314.2	-1,317.2	1,597.3	1,534.4	25.389		
4,900.0	4,169.5	4,644.3	4,361.7	45.5	29.3	-141.08	324.5	-1,350.8	1,635.9	1,571.6	25.429		
5,000.0	4,249.8	4,736.5	4,447.0	46.6	29.9	-141.12	334.8	-1,384.3	1,674.6	1,608.8	25.467		
5,100.0	4,330.0	4,828.8	4,532.3	47.7	30.6	-141.17	345.1	-1,417.9	1,713.2	1,646.1	25.502		

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Laramie 0993-20-11E - Slot A-1
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-11E	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design											Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard											Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning
5,200.0	4,410.3	4,921.0	4,617.6	48.9	31.2	-141.21	355.4	-1,451.4	1,751.9	1,683.3	25.535	
5,300.0	4,490.6	5,013.2	4,702.8	50.0	31.9	-141.25	365.7	-1,485.0	1,790.6	1,720.5	25.567	
5,400.0	4,570.9	5,105.4	4,788.1	51.2	32.6	-141.29	376.0	-1,518.5	1,829.2	1,757.7	25.597	
5,500.0	4,651.1	5,197.6	4,873.4	52.3	33.2	-141.33	386.3	-1,552.1	1,867.9	1,795.0	25.625	
5,600.0	4,731.5	5,289.9	4,958.7	53.4	33.9	-141.48	396.6	-1,585.6	1,906.5	1,832.2	25.652	
5,700.0	4,813.4	5,382.9	5,044.8	54.5	34.5	-142.06	407.0	-1,619.5	1,943.0	1,867.2	25.643	
5,800.0	4,897.9	5,477.2	5,131.9	55.5	35.2	-142.50	417.5	-1,653.7	1,976.3	1,899.0	25.579	
5,900.0	4,984.5	5,559.0	5,207.8	56.4	35.8	-142.84	426.5	-1,683.0	2,006.6	1,928.0	25.550	
6,000.0	5,073.3	5,634.4	5,278.6	57.3	36.3	-143.15	434.1	-1,707.9	2,034.4	1,954.8	25.546	
6,100.0	5,164.0	5,700.0	5,340.8	58.0	36.7	-143.45	440.2	-1,727.7	2,059.9	1,979.4	25.582	
6,200.0	5,256.4	5,786.7	5,423.9	58.7	37.1	-143.70	447.5	-1,751.3	2,082.9	2,001.3	25.532	
6,300.0	5,350.4	5,863.3	5,498.1	59.3	37.4	-143.92	453.1	-1,769.6	2,103.5	2,021.1	25.526	
6,400.0	5,445.8	5,940.4	5,573.3	59.8	37.7	-144.13	458.0	-1,785.6	2,121.6	2,038.5	25.518	
6,500.0	5,542.4	6,017.7	5,649.3	60.3	38.0	-144.30	462.2	-1,799.3	2,137.3	2,053.5	25.507	
6,600.0	5,640.1	6,100.0	5,730.7	60.6	38.2	-144.45	465.8	-1,811.1	2,150.4	2,066.1	25.481	
6,700.0	5,738.6	6,172.9	5,803.1	60.9	38.4	-144.59	468.3	-1,819.2	2,161.1	2,076.3	25.487	
6,800.0	5,837.7	6,250.8	5,880.7	61.1	38.5	-144.69	470.2	-1,825.5	2,169.1	2,084.0	25.476	
6,900.0	5,937.4	6,328.8	5,958.6	61.3	38.6	-144.78	471.4	-1,829.2	2,174.7	2,089.3	25.462	
7,000.0	6,037.3	6,407.5	6,037.3	61.4	38.6	-144.84	471.7	-1,830.4	2,177.6	2,092.1	25.444	
7,100.0	6,137.3	6,507.5	6,137.3	61.4	38.7	179.81	471.7	-1,830.4	2,178.0	2,092.3	25.414	
7,200.0	6,237.3	6,607.5	6,237.3	61.4	38.7	179.81	471.7	-1,830.4	2,178.0	2,092.3	25.399	
7,300.0	6,337.3	6,707.5	6,337.3	61.4	38.8	179.81	471.7	-1,830.4	2,178.0	2,092.2	25.383	
7,400.0	6,437.3	6,807.5	6,437.3	61.4	38.8	179.81	471.7	-1,830.4	2,178.0	2,092.2	25.367	
7,500.0	6,537.3	6,907.5	6,537.3	61.4	38.8	179.81	471.7	-1,830.4	2,178.0	2,092.1	25.351	
7,600.0	6,637.3	7,007.5	6,637.3	61.4	38.8	179.81	471.7	-1,830.4	2,178.0	2,092.1	25.335	
7,700.0	6,737.3	7,107.5	6,737.3	61.5	38.9	179.81	471.7	-1,830.4	2,178.0	2,092.0	25.319	
7,800.0	6,837.3	7,207.5	6,837.3	61.5	38.9	179.81	471.7	-1,830.4	2,178.0	2,092.0	25.303	
7,900.0	6,937.3	7,307.5	6,937.3	61.5	38.9	179.81	471.7	-1,830.4	2,178.0	2,091.9	25.286	
8,000.0	7,037.3	7,407.5	7,037.3	61.5	39.0	179.81	471.7	-1,830.4	2,178.0	2,091.8	25.270	
8,100.0	7,137.3	7,507.5	7,137.3	61.5	39.0	179.81	471.7	-1,830.4	2,178.0	2,091.8	25.254	
8,200.0	7,237.3	7,607.5	7,237.3	61.5	39.0	179.81	471.7	-1,830.4	2,178.0	2,091.7	25.237	
8,300.0	7,337.3	7,707.5	7,337.3	61.6	39.0	179.81	471.7	-1,830.4	2,178.0	2,091.7	25.221	
8,400.0	7,437.3	7,807.5	7,437.3	61.6	39.1	179.81	471.7	-1,830.4	2,178.0	2,091.6	25.204	
8,500.0	7,537.3	7,907.5	7,537.3	61.6	39.1	179.81	471.7	-1,830.4	2,178.0	2,091.6	25.188	
8,600.0	7,637.3	8,007.5	7,637.3	61.6	39.1	179.81	471.7	-1,830.4	2,178.0	2,091.5	25.171	
8,700.0	7,737.3	8,107.5	7,737.3	61.6	39.2	179.81	471.7	-1,830.4	2,178.0	2,091.4	25.154	
8,800.0	7,837.3	8,207.5	7,837.3	61.6	39.2	179.81	471.7	-1,830.4	2,178.0	2,091.4	25.137	
8,821.7	7,859.0	8,229.2	7,859.0	61.6	39.2	179.81	471.7	-1,830.4	2,178.0	2,091.4	25.134	

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



Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Laramie 0993-20-11E - Slot A-1
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-11E	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	132.56	-5.5	5.9	8.1				
100.0	100.0	100.0	100.0	0.4	0.4	132.56	-5.5	5.9	8.1	7.3	10.196		
200.0	200.0	200.0	200.0	1.2	1.2	132.56	-5.5	5.9	8.1	5.6	3.269	CC, ES	
300.0	300.0	300.1	300.0	2.4	1.7	139.21	-4.4	6.6	9.4	5.7	2.568		
400.0	399.7	400.1	399.9	3.9	3.3	134.72	0.3	9.3	13.0	7.9	2.533	SF	
500.0	499.2	499.9	499.2	5.0	4.6	137.05	8.9	14.1	19.8	13.8	3.313		
600.0	598.1	599.1	597.4	5.8	5.6	133.80	21.0	21.0	31.1	24.3	4.602		
700.0	696.3	697.4	694.0	6.6	6.5	130.76	36.7	29.9	47.3	39.6	6.176		
800.0	793.7	794.4	788.5	7.3	7.2	128.57	55.7	40.7	68.3	59.6	7.920		
900.0	890.0	889.8	880.5	8.0	8.0	127.00	77.8	53.3	94.0	84.4	9.782		
1,000.0	985.0	983.4	969.6	8.7	8.6	125.80	102.6	67.4	124.3	113.7	11.712		
1,100.0	1,078.6	1,074.9	1,055.6	9.3	9.2	124.81	130.0	82.9	159.0	147.4	13.667		
1,200.0	1,170.7	1,164.1	1,138.1	10.0	9.8	123.94	159.5	99.7	198.0	185.3	15.610		
1,300.0	1,260.9	1,250.9	1,217.0	10.6	10.4	123.11	190.8	117.6	241.0	227.3	17.514		
1,400.0	1,349.2	1,335.1	1,292.2	11.2	10.9	122.29	223.7	136.2	287.9	273.1	19.358		
1,500.0	1,435.3	1,416.6	1,363.6	11.7	11.3	121.44	257.8	155.6	338.6	322.5	21.130		
1,600.0	1,519.2	1,495.3	1,431.3	12.3	11.8	120.55	292.8	175.5	392.7	375.5	22.817		
1,700.0	1,600.6	1,571.9	1,495.7	12.8	12.1	119.67	328.8	196.0	450.1	431.7	24.491		
1,800.0	1,680.9	1,652.8	1,563.2	13.1	12.3	119.92	367.6	218.0	508.8	489.2	25.951		
1,900.0	1,761.2	1,733.7	1,630.7	13.5	12.6	120.12	406.4	240.1	567.6	546.7	27.161		
2,000.0	1,841.4	1,814.6	1,698.2	14.0	12.9	120.28	445.1	262.1	626.4	604.2	28.179		
2,100.0	1,921.7	1,895.5	1,765.7	14.6	13.2	120.41	483.9	284.2	685.2	661.6	29.046		
2,200.0	2,002.0	1,976.4	1,833.1	15.4	13.5	120.52	522.7	306.2	744.0	719.0	29.785		
2,300.0	2,082.3	2,057.3	1,900.6	16.3	13.8	120.62	561.5	328.3	802.8	776.4	30.423		
2,400.0	2,162.5	2,138.2	1,968.1	17.4	14.1	120.70	600.2	350.3	861.5	833.7	30.977		
2,500.0	2,242.8	2,219.0	2,035.6	18.4	14.4	120.77	639.0	372.4	920.3	891.1	31.461		
2,600.0	2,323.1	2,299.9	2,103.1	19.5	14.7	120.84	677.8	394.4	979.1	948.4	31.891		
2,700.0	2,403.4	2,380.8	2,170.5	20.6	15.2	120.89	716.5	416.4	1,037.9	1,005.8	32.278		
2,800.0	2,483.7	2,461.7	2,238.0	21.7	16.0	120.94	755.3	438.5	1,096.7	1,063.1	32.603		
2,900.0	2,563.9	2,542.6	2,305.5	22.8	16.7	120.99	794.1	460.5	1,155.5	1,120.4	32.899		
3,000.0	2,644.2	2,623.5	2,373.0	24.0	17.5	121.03	832.9	482.6	1,214.3	1,177.7	33.165		
3,100.0	2,724.5	2,704.4	2,440.5	25.1	18.3	121.07	871.6	504.6	1,273.1	1,235.0	33.404		
3,200.0	2,804.8	2,785.3	2,507.9	26.2	19.0	121.10	910.4	526.7	1,331.9	1,292.3	33.621		
3,300.0	2,885.0	2,866.1	2,575.4	27.3	19.8	121.13	949.2	548.7	1,390.7	1,349.6	33.817		
3,400.0	2,965.3	2,947.0	2,642.9	28.5	20.6	121.16	987.9	570.7	1,449.5	1,406.8	33.996		
3,500.0	3,045.6	3,027.9	2,710.4	29.6	21.3	121.19	1,026.7	592.8	1,508.3	1,464.1	34.159		
3,600.0	3,125.9	3,108.8	2,777.9	30.7	22.1	121.21	1,065.5	614.8	1,567.1	1,521.4	34.308		
3,700.0	3,206.1	3,189.7	2,845.3	31.8	22.8	121.23	1,104.3	636.9	1,625.9	1,578.7	34.446		
3,800.0	3,286.4	3,270.6	2,912.8	33.0	23.6	121.25	1,143.0	658.9	1,684.7	1,635.9	34.572		
3,900.0	3,366.7	3,351.5	2,980.3	34.1	24.4	121.27	1,181.8	681.0	1,743.5	1,693.2	34.689		
4,000.0	3,447.0	3,432.4	3,047.8	35.2	25.1	121.29	1,220.6	703.0	1,802.3	1,750.5	34.797		
4,100.0	3,527.3	3,513.2	3,115.3	36.4	25.9	121.31	1,259.3	725.0	1,861.1	1,807.7	34.897		
4,200.0	3,607.5	3,594.1	3,182.7	37.5	26.7	121.32	1,298.1	747.1	1,919.9	1,865.0	34.990		
4,300.0	3,687.8	3,675.0	3,250.2	38.6	27.4	121.34	1,336.9	769.1	1,978.6	1,922.2	35.077		
4,400.0	3,768.1	3,755.9	3,317.7	39.8	28.2	121.35	1,375.7	791.2	2,037.4	1,979.5	35.158		
4,500.0	3,848.4	3,836.8	3,385.2	40.9	29.0	121.37	1,414.4	813.2	2,096.2	2,036.7	35.234		
4,600.0	3,928.6	3,917.7	3,452.7	42.1	29.7	121.38	1,453.2	835.3	2,155.0	2,094.0	35.305		
4,700.0	4,008.9	3,998.6	3,520.1	43.2	30.5	121.39	1,492.0	857.3	2,213.8	2,151.2	35.372		
4,800.0	4,089.2	4,079.4	3,587.6	44.3	31.3	121.40	1,530.7	879.4	2,272.6	2,208.5	35.435		
4,900.0	4,169.5	4,160.3	3,655.1	45.5	32.1	121.41	1,569.5	901.4	2,331.4	2,265.7	35.494		
5,000.0	4,249.8	4,241.2	3,722.6	46.6	32.8	121.42	1,608.3	923.4	2,390.2	2,323.0	35.549		
5,100.0	4,330.0	4,322.1	3,790.1	47.7	33.6	121.43	1,647.1	945.5	2,449.0	2,380.2	35.602		

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Laramie 0993-20-11E - Slot A-1
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-11E	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design											Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard											Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning
5,200.0	4,410.3	4,403.0	3,857.6	48.9	34.4	121.44	1,685.8	967.5	2,507.8	2,437.5	35.651	
5,300.0	4,490.6	4,483.9	3,925.0	50.0	35.1	121.45	1,724.6	989.6	2,566.6	2,494.7	35.698	
5,400.0	4,570.9	4,564.8	3,992.5	51.2	35.9	121.46	1,763.4	1,011.6	2,625.4	2,552.0	35.743	
5,500.0	4,651.1	4,645.7	4,060.0	52.3	36.7	121.47	1,802.1	1,033.7	2,684.2	2,609.2	35.785	
5,600.0	4,731.5	4,726.6	4,127.5	53.4	37.4	121.74	1,840.9	1,055.7	2,743.0	2,666.4	35.826	
5,700.0	4,813.4	4,808.3	4,195.7	54.5	38.2	123.17	1,880.1	1,078.0	2,800.5	2,722.4	35.854	
5,800.0	4,897.9	4,891.3	4,264.9	55.5	39.0	124.42	1,919.9	1,100.6	2,856.1	2,776.4	35.861	
5,900.0	4,984.5	4,975.2	4,334.9	56.4	39.8	125.50	1,960.1	1,123.5	2,909.6	2,828.4	35.854	
6,000.0	5,073.3	5,060.0	4,405.6	57.3	40.6	126.42	2,000.7	1,146.6	2,961.0	2,878.4	35.836	
6,100.0	5,164.0	5,145.5	4,477.0	58.0	41.4	127.20	2,041.7	1,169.9	3,010.2	2,926.2	35.809	
6,200.0	5,256.4	5,231.5	4,548.7	58.7	42.3	127.85	2,083.0	1,193.3	3,057.3	2,971.8	35.772	
6,300.0	5,350.4	5,317.9	4,620.8	59.3	43.1	128.37	2,124.4	1,216.8	3,102.1	3,015.3	35.730	
6,400.0	5,445.8	5,404.4	4,693.0	59.8	43.9	128.78	2,165.9	1,240.4	3,144.7	3,056.5	35.682	
6,500.0	5,542.4	5,491.1	4,765.3	60.3	44.7	129.08	2,207.4	1,264.0	3,185.0	3,095.6	35.631	
6,600.0	5,640.1	5,577.5	4,837.4	60.6	45.5	129.29	2,248.8	1,287.6	3,223.1	3,132.5	35.580	
6,700.0	5,738.6	5,807.2	5,034.5	60.9	47.6	128.51	2,351.2	1,345.8	3,257.3	3,163.2	34.597	
6,800.0	5,837.7	6,081.4	5,283.7	61.1	49.5	127.68	2,450.2	1,402.1	3,284.6	3,186.8	33.616	
6,900.0	5,937.4	6,378.6	5,567.1	61.3	51.0	127.02	2,527.5	1,446.0	3,303.8	3,203.3	32.848	
7,000.0	6,037.3	6,692.7	5,876.4	61.4	51.9	126.60	2,573.8	1,472.4	3,314.4	3,212.0	32.347	
7,100.0	6,137.3	6,954.0	6,137.3	61.4	52.2	91.13	2,584.2	1,478.3	3,316.5	3,213.5	32.188	
7,200.0	6,237.3	7,054.0	6,237.3	61.4	52.2	91.13	2,584.2	1,478.3	3,316.5	3,213.4	32.181	
7,300.0	6,337.3	7,154.0	6,337.3	61.4	52.2	91.13	2,584.2	1,478.3	3,316.5	3,213.4	32.171	
7,400.0	6,437.3	7,254.0	6,437.3	61.4	52.2	91.13	2,584.2	1,478.3	3,316.5	3,213.4	32.162	
7,500.0	6,537.3	7,354.0	6,537.3	61.4	52.2	91.13	2,584.2	1,478.3	3,316.5	3,213.3	32.152	
7,600.0	6,637.3	7,454.0	6,637.3	61.4	52.2	91.13	2,584.2	1,478.3	3,316.5	3,213.3	32.143	
7,700.0	6,737.3	7,554.0	6,737.3	61.5	52.3	91.13	2,584.2	1,478.3	3,316.5	3,213.3	32.133	
7,800.0	6,837.3	7,654.0	6,837.3	61.5	52.3	91.13	2,584.2	1,478.3	3,316.5	3,213.2	32.123	
7,900.0	6,937.3	7,754.0	6,937.3	61.5	52.3	91.13	2,584.2	1,478.3	3,316.5	3,213.2	32.114	
8,000.0	7,037.3	7,854.0	7,037.3	61.5	52.3	91.13	2,584.2	1,478.3	3,316.5	3,213.2	32.104	
8,100.0	7,137.3	7,954.0	7,137.3	61.5	52.3	91.13	2,584.2	1,478.3	3,316.5	3,213.1	32.094	
8,200.0	7,237.3	8,054.0	7,237.3	61.5	52.3	91.13	2,584.2	1,478.3	3,316.5	3,213.1	32.084	
8,300.0	7,337.3	8,154.0	7,337.3	61.6	52.4	91.13	2,584.2	1,478.3	3,316.5	3,213.1	32.074	
8,400.0	7,437.3	8,254.0	7,437.3	61.6	52.4	91.13	2,584.2	1,478.3	3,316.5	3,213.1	32.064	
8,500.0	7,537.3	8,354.0	7,537.3	61.6	52.4	91.13	2,584.2	1,478.3	3,316.5	3,213.0	32.053	
8,600.0	7,637.3	8,454.0	7,637.3	61.6	52.4	91.13	2,584.2	1,478.3	3,316.5	3,213.0	32.043	
8,700.0	7,737.3	8,554.0	7,737.3	61.6	52.4	91.13	2,584.2	1,478.3	3,316.5	3,213.0	32.033	
8,800.0	7,837.3	8,654.0	7,837.3	61.6	52.4	91.13	2,584.2	1,478.3	3,316.5	3,212.9	32.022	
8,821.7	7,859.0	8,675.7	7,859.0	61.6	52.5	91.13	2,584.2	1,478.3	3,316.5	3,212.9	32.021	

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



Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Laramie 0993-20-11E - Slot A-1
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-11E	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft	
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft	
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	133.31	-16.6	17.6	24.2					
100.0	100.0	100.0	100.0	0.4	0.4	133.31	-16.6	17.6	24.2	23.4	30.505			
200.0	200.0	200.0	200.0	1.2	1.2	133.31	-16.6	17.6	24.2	21.7	9.780	CC		
300.0	300.0	300.1	300.1	2.4	2.4	136.69	-14.8	18.8	25.5	21.6	6.600	ES		
400.0	399.7	400.2	399.9	3.9	3.9	132.71	-9.4	22.5	29.5	24.2	5.632	SF		
500.0	499.2	499.8	498.9	5.0	5.1	137.71	-0.4	28.6	37.1	30.9	6.001			
600.0	598.1	598.7	596.7	5.8	6.0	136.43	12.0	37.1	49.5	42.4	6.991			
700.0	696.3	696.4	692.5	6.6	6.8	133.93	27.6	47.8	67.1	59.1	8.350			
800.0	793.7	792.6	786.0	7.3	7.6	131.68	46.3	60.6	90.0	80.9	9.946			
900.0	890.0	886.9	876.7	8.0	8.2	129.87	67.7	75.3	117.8	107.8	11.712			
1,000.0	985.0	979.1	964.2	8.7	8.9	128.43	91.7	91.7	150.5	139.5	13.590			
1,100.0	1,078.6	1,069.0	1,048.3	9.3	9.5	127.23	117.8	109.5	187.9	175.8	15.529			
1,200.0	1,170.7	1,156.2	1,128.7	10.0	10.0	126.18	145.7	128.6	229.7	216.6	17.486			
1,300.0	1,260.9	1,240.7	1,205.3	10.6	10.5	125.21	175.1	148.7	275.8	261.6	19.431			
1,400.0	1,349.2	1,322.3	1,278.0	11.2	11.0	124.25	205.7	169.7	325.8	310.6	21.332			
1,500.0	1,435.3	1,400.9	1,346.7	11.7	11.5	123.29	237.2	191.2	379.7	363.3	23.165			
1,600.0	1,519.2	1,482.8	1,417.5	12.3	11.8	122.48	271.1	214.5	436.5	419.0	24.844			
1,700.0	1,600.6	1,563.4	1,487.2	12.8	12.1	122.03	304.5	237.3	495.6	476.8	26.404			
1,800.0	1,680.9	1,643.1	1,556.2	13.1	12.4	122.74	337.6	260.0	555.6	535.7	27.886			
1,900.0	1,761.2	1,722.9	1,625.2	13.5	12.6	123.31	370.7	282.6	615.7	594.6	29.147			
2,000.0	1,841.4	1,802.7	1,694.2	14.0	12.9	123.78	403.7	305.2	675.8	653.5	30.234			
2,100.0	1,921.7	1,882.5	1,763.2	14.6	13.2	124.17	436.8	327.9	736.0	712.4	31.170			
2,200.0	2,002.0	1,962.3	1,832.2	15.4	13.5	124.50	469.9	350.5	796.2	771.3	31.984			
2,300.0	2,082.3	2,042.1	1,901.2	16.3	13.8	124.79	503.0	373.1	856.3	830.1	32.697			
2,400.0	2,162.5	2,121.9	1,970.2	17.4	14.1	125.04	536.0	395.8	916.5	889.0	33.325			
2,500.0	2,242.8	2,201.7	2,039.2	18.4	14.4	125.26	569.1	418.4	976.7	947.9	33.882			
2,600.0	2,323.1	2,281.5	2,108.2	19.5	14.7	125.45	602.2	441.0	1,036.9	1,006.8	34.371			
2,700.0	2,403.4	2,361.3	2,177.2	20.6	15.1	125.62	635.3	463.7	1,097.2	1,065.6	34.802			
2,800.0	2,483.7	2,441.1	2,246.2	21.7	15.5	125.78	668.3	486.3	1,157.4	1,124.5	35.218			
2,900.0	2,563.9	2,520.9	2,315.2	22.8	16.1	125.92	701.4	508.9	1,217.6	1,183.4	35.560			
3,000.0	2,644.2	2,600.7	2,384.2	24.0	16.8	126.04	734.5	531.6	1,277.8	1,242.2	35.877			
3,100.0	2,724.5	2,680.5	2,453.2	25.1	17.5	126.16	767.6	554.2	1,338.1	1,301.1	36.166			
3,200.0	2,804.8	2,760.3	2,522.2	26.2	18.2	126.26	800.7	576.8	1,398.3	1,359.9	36.428			
3,300.0	2,885.0	2,840.1	2,591.2	27.3	18.9	126.36	833.7	599.5	1,458.6	1,418.8	36.668			
3,400.0	2,965.3	2,919.9	2,660.2	28.5	19.5	126.44	866.8	622.1	1,518.8	1,477.6	36.887			
3,500.0	3,045.6	2,999.7	2,729.2	29.6	20.2	126.53	899.9	644.7	1,579.1	1,536.5	37.087			
3,600.0	3,125.9	3,079.5	2,798.2	30.7	20.9	126.60	933.0	667.4	1,639.3	1,595.3	37.273			
3,700.0	3,206.1	3,159.3	2,867.2	31.8	21.6	126.67	966.0	690.0	1,699.6	1,654.2	37.443			
3,800.0	3,286.4	3,239.0	2,936.2	33.0	22.3	126.74	999.1	712.7	1,759.8	1,713.0	37.601			
3,900.0	3,366.7	3,318.8	3,005.2	34.1	23.0	126.80	1,032.2	735.3	1,820.1	1,771.8	37.748			
4,000.0	3,447.0	3,398.6	3,074.2	35.2	23.7	126.86	1,065.3	757.9	1,880.3	1,830.7	37.884			
4,100.0	3,527.3	3,478.4	3,143.2	36.4	24.4	126.91	1,098.3	780.6	1,940.6	1,889.5	38.010			
4,200.0	3,607.5	3,558.2	3,212.2	37.5	25.1	126.96	1,131.4	803.2	2,000.8	1,948.4	38.128			
4,300.0	3,687.8	3,638.0	3,281.2	38.6	25.8	127.01	1,164.5	825.8	2,061.1	2,007.2	38.239			
4,400.0	3,768.1	3,717.8	3,350.2	39.8	26.5	127.05	1,197.6	848.5	2,121.3	2,066.0	38.342			
4,500.0	3,848.4	3,797.6	3,419.2	40.9	27.2	127.09	1,230.6	871.1	2,181.6	2,124.8	38.439			
4,600.0	3,928.6	3,877.4	3,488.2	42.1	27.9	127.13	1,263.7	893.7	2,241.9	2,183.7	38.530			
4,700.0	4,008.9	3,957.2	3,557.2	43.2	28.6	127.17	1,296.8	916.4	2,302.1	2,242.5	38.616			
4,800.0	4,089.2	4,037.0	3,626.2	44.3	29.3	127.21	1,329.9	939.0	2,362.4	2,301.3	38.697			
4,900.0	4,169.5	4,116.8	3,695.2	45.5	29.9	127.24	1,362.9	961.6	2,422.6	2,360.2	38.773			
5,000.0	4,249.8	4,196.6	3,764.2	46.6	30.6	127.28	1,396.0	984.3	2,482.9	2,419.0	38.845			
5,100.0	4,330.0	4,276.4	3,833.2	47.7	31.3	127.31	1,429.1	1,006.9	2,543.2	2,477.8	38.913			

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Laramie 0993-20-11E - Slot A-1
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-11E	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design											Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard											Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning
5,200.0	4,410.3	4,356.2	3,902.2	48.9	32.0	127.34	1,462.2	1,029.5	2,603.4	2,536.6	38.977	
5,300.0	4,490.6	4,436.0	3,971.2	50.0	32.7	127.36	1,495.2	1,052.2	2,663.7	2,595.5	39.039	
5,400.0	4,570.9	4,515.8	4,040.2	51.2	33.4	127.39	1,528.3	1,074.8	2,724.0	2,654.3	39.097	
5,500.0	4,651.1	4,595.6	4,109.2	52.3	34.1	127.42	1,561.4	1,097.4	2,784.2	2,713.1	39.152	
5,600.0	4,731.5	4,675.4	4,178.2	53.4	34.8	127.70	1,594.5	1,120.1	2,844.5	2,771.9	39.206	
5,700.0	4,813.4	4,756.2	4,248.1	54.5	35.5	129.09	1,628.0	1,143.0	2,903.3	2,829.3	39.237	
5,800.0	4,897.9	4,838.6	4,319.3	55.5	36.2	130.30	1,662.1	1,166.4	2,959.8	2,884.4	39.236	
5,900.0	4,984.5	4,922.2	4,391.6	56.4	37.0	131.34	1,696.8	1,190.1	3,014.1	2,937.2	39.212	
6,000.0	5,073.3	5,006.9	4,464.9	57.3	37.7	132.22	1,731.9	1,214.1	3,065.9	2,987.6	39.168	
6,100.0	5,164.0	5,092.7	4,539.0	58.0	38.5	132.96	1,767.4	1,238.5	3,115.2	3,035.6	39.107	
6,200.0	5,256.4	5,179.3	4,613.9	58.7	39.2	133.57	1,803.3	1,263.0	3,162.0	3,081.0	39.030	
6,300.0	5,350.4	5,266.5	4,689.3	59.3	40.0	134.05	1,839.5	1,287.8	3,206.3	3,124.0	38.939	
6,400.0	5,445.8	5,354.2	4,765.2	59.8	40.8	134.42	1,875.8	1,312.6	3,248.0	3,164.4	38.836	
6,500.0	5,542.4	5,442.2	4,841.3	60.3	41.5	134.69	1,912.3	1,337.6	3,287.1	3,202.2	38.724	
6,600.0	5,640.1	5,530.4	4,917.5	60.6	42.3	134.86	1,948.9	1,362.6	3,323.6	3,237.5	38.605	
6,700.0	5,738.6	5,690.3	5,057.1	60.9	43.6	134.51	2,013.2	1,406.7	3,357.1	3,268.6	37.968	
6,800.0	5,837.7	5,957.9	5,301.4	61.1	45.5	133.68	2,103.1	1,468.2	3,384.1	3,292.1	36.803	
6,900.0	5,937.4	6,247.8	5,578.3	61.3	47.0	133.02	2,173.3	1,516.2	3,403.2	3,308.3	35.880	
7,000.0	6,037.3	6,554.1	5,880.1	61.4	47.8	132.60	2,215.4	1,545.0	3,413.7	3,316.9	35.258	
7,100.0	6,137.3	6,811.7	6,137.3	61.4	48.1	97.14	2,225.1	1,551.6	3,415.7	3,318.2	35.044	
7,200.0	6,237.3	6,911.7	6,237.3	61.4	48.1	97.14	2,225.1	1,551.6	3,415.7	3,318.2	35.033	
7,300.0	6,337.3	7,011.7	6,337.3	61.4	48.1	97.14	2,225.1	1,551.6	3,415.7	3,318.2	35.022	
7,400.0	6,437.3	7,111.7	6,437.3	61.4	48.1	97.14	2,225.1	1,551.6	3,415.7	3,318.1	35.010	
7,500.0	6,537.3	7,211.7	6,537.3	61.4	48.1	97.14	2,225.1	1,551.6	3,415.7	3,318.1	34.998	
7,600.0	6,637.3	7,311.7	6,637.3	61.4	48.2	97.14	2,225.1	1,551.6	3,415.7	3,318.1	34.986	
7,700.0	6,737.3	7,411.7	6,737.3	61.5	48.2	97.14	2,225.1	1,551.6	3,415.7	3,318.0	34.974	
7,800.0	6,837.3	7,511.7	6,837.3	61.5	48.2	97.14	2,225.1	1,551.6	3,415.7	3,318.0	34.962	
7,900.0	6,937.3	7,611.7	6,937.3	61.5	48.2	97.14	2,225.1	1,551.6	3,415.7	3,318.0	34.950	
8,000.0	7,037.3	7,711.7	7,037.3	61.5	48.2	97.14	2,225.1	1,551.6	3,415.7	3,317.9	34.937	
8,100.0	7,137.3	7,811.7	7,137.3	61.5	48.3	97.14	2,225.1	1,551.6	3,415.7	3,317.9	34.925	
8,200.0	7,237.3	7,911.7	7,237.3	61.5	48.3	97.14	2,225.1	1,551.6	3,415.7	3,317.9	34.912	
8,300.0	7,337.3	8,011.7	7,337.3	61.6	48.3	97.14	2,225.1	1,551.6	3,415.7	3,317.8	34.900	
8,400.0	7,437.3	8,111.7	7,437.3	61.6	48.3	97.14	2,225.1	1,551.6	3,415.7	3,317.8	34.887	
8,500.0	7,537.3	8,211.7	7,537.3	61.6	48.3	97.14	2,225.1	1,551.6	3,415.7	3,317.8	34.874	
8,600.0	7,637.3	8,311.7	7,637.3	61.6	48.4	97.14	2,225.1	1,551.6	3,415.7	3,317.7	34.862	
8,700.0	7,737.3	8,411.7	7,737.3	61.6	48.4	97.14	2,225.1	1,551.6	3,415.7	3,317.7	34.849	
8,800.0	7,837.3	8,511.7	7,837.3	61.6	48.4	97.14	2,225.1	1,551.6	3,415.7	3,317.6	34.836	
8,821.7	7,859.0	8,533.4	7,859.0	61.6	48.4	97.14	2,225.1	1,551.6	3,415.7	3,317.6	34.835	

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Laramie 0993-20-11E - Slot A-1
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-11E	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	133.50	-27.7	29.2	40.2				
100.0	100.0	100.0	100.0	0.4	0.4	133.50	-27.7	29.2	40.2	39.4	50.760		
200.0	200.0	200.0	200.0	1.2	1.2	133.50	-27.7	29.2	40.2	37.7	16.274	CC, ES	
300.0	300.0	299.9	299.9	2.4	2.3	137.47	-26.2	30.7	41.9	38.1	10.959		
400.0	399.7	399.6	399.3	3.9	3.9	134.83	-21.6	35.4	47.2	41.9	8.920		
500.0	499.2	498.7	497.9	5.0	5.0	141.75	-14.1	43.1	56.7	50.3	8.830	SF	
600.0	598.1	596.8	594.9	5.8	6.0	142.22	-3.7	53.7	71.6	64.1	9.530		
700.0	696.3	693.4	689.6	6.6	6.8	140.73	9.3	67.0	92.1	83.5	10.709		
800.0	793.7	788.0	781.6	7.3	7.5	138.91	24.7	82.9	118.4	108.7	12.214		
900.0	890.0	880.3	870.3	8.0	8.2	137.21	42.3	100.9	150.2	139.5	13.961		
1,000.0	985.0	969.9	955.5	8.7	8.8	135.74	61.8	120.9	187.4	175.6	15.879		
1,100.0	1,078.6	1,056.5	1,036.7	9.3	9.4	134.44	82.8	142.4	229.7	216.9	17.911		
1,200.0	1,170.7	1,139.9	1,113.7	10.0	9.9	133.26	105.0	165.2	276.8	263.0	20.014		
1,300.0	1,260.9	1,219.9	1,186.6	10.6	10.4	132.15	128.2	189.0	328.5	313.6	22.152		
1,400.0	1,349.2	1,300.0	1,258.2	11.2	10.9	131.04	153.1	214.5	384.5	368.6	24.209		
1,500.0	1,435.3	1,369.4	1,319.3	11.7	11.3	129.94	176.1	238.2	444.4	427.6	26.420		
1,600.0	1,519.2	1,439.0	1,379.5	12.3	11.6	128.78	200.5	263.1	508.1	490.4	28.620		
1,700.0	1,600.6	1,513.5	1,443.5	12.8	11.8	127.78	227.3	290.6	574.7	555.9	30.587		
1,800.0	1,680.9	1,587.2	1,506.6	13.1	12.0	128.16	253.7	317.7	642.3	622.5	32.460		
1,900.0	1,761.2	1,660.8	1,569.8	13.5	12.3	128.47	280.1	344.7	709.9	689.1	34.068		
2,000.0	1,841.4	1,734.4	1,633.0	14.0	12.5	128.72	306.5	371.8	777.6	755.6	35.474		
2,100.0	1,921.7	1,808.1	1,696.1	14.6	12.8	128.93	332.9	398.9	845.2	822.2	36.708		
2,200.0	2,002.0	1,881.7	1,759.3	15.4	13.1	129.12	359.4	426.0	912.8	888.7	37.784		
2,300.0	2,082.3	1,955.3	1,822.5	16.3	13.3	129.27	385.8	453.1	980.5	955.1	38.730		
2,400.0	2,162.5	2,029.0	1,885.6	17.4	13.6	129.41	412.2	480.2	1,048.1	1,021.6	39.570		
2,500.0	2,242.8	2,102.6	1,948.8	18.4	13.9	129.53	438.6	507.3	1,115.7	1,088.1	40.322		
2,600.0	2,323.1	2,176.2	2,012.0	19.5	14.2	129.64	465.0	534.3	1,183.4	1,154.5	40.978		
2,700.0	2,403.4	2,249.9	2,075.1	20.6	14.5	129.73	491.4	561.4	1,251.0	1,220.9	41.519		
2,800.0	2,483.7	2,323.5	2,138.3	21.7	15.0	129.82	517.9	588.5	1,318.7	1,287.4	42.132		
2,900.0	2,563.9	2,397.1	2,201.5	22.8	15.6	129.89	544.3	615.6	1,386.3	1,353.8	42.597		
3,000.0	2,644.2	2,470.8	2,264.6	24.0	16.3	129.96	570.7	642.7	1,454.0	1,420.2	43.033		
3,100.0	2,724.5	2,544.4	2,327.8	25.1	17.0	130.03	597.1	669.8	1,521.6	1,486.6	43.424		
3,200.0	2,804.8	2,618.0	2,391.0	26.2	17.6	130.09	623.5	696.9	1,589.3	1,553.0	43.781		
3,300.0	2,885.0	2,691.7	2,454.1	27.3	18.3	130.14	649.9	724.0	1,657.0	1,619.4	44.107		
3,400.0	2,965.3	2,765.3	2,517.3	28.5	19.0	130.19	676.4	751.0	1,724.6	1,685.8	44.406		
3,500.0	3,045.6	2,838.9	2,580.5	29.6	19.7	130.23	702.8	778.1	1,792.3	1,752.2	44.680		
3,600.0	3,125.9	2,912.5	2,643.6	30.7	20.4	130.28	729.2	805.2	1,859.9	1,818.5	44.932		
3,700.0	3,206.1	2,986.2	2,706.8	31.8	21.0	130.32	755.6	832.3	1,927.6	1,884.9	45.165		
3,800.0	3,286.4	3,059.8	2,770.0	33.0	21.7	130.35	782.0	859.4	1,995.2	1,951.3	45.380		
3,900.0	3,366.7	3,133.4	2,833.1	34.1	22.4	130.39	808.4	886.5	2,062.9	2,017.6	45.578		
4,000.0	3,447.0	3,207.1	2,896.3	35.2	23.1	130.42	834.9	913.6	2,130.6	2,084.0	45.763		
4,100.0	3,527.3	3,280.7	2,959.5	36.4	23.8	130.45	861.3	940.6	2,198.2	2,150.4	45.935		
4,200.0	3,607.5	3,354.3	3,022.6	37.5	24.4	130.48	887.7	967.7	2,265.9	2,216.7	46.095		
4,300.0	3,687.8	3,428.0	3,085.8	38.6	25.1	130.50	914.1	994.8	2,333.5	2,283.1	46.244		
4,400.0	3,768.1	3,501.6	3,149.0	39.8	25.8	130.53	940.5	1,021.9	2,401.2	2,349.4	46.383		
4,500.0	3,848.4	3,575.2	3,212.1	40.9	26.5	130.55	966.9	1,049.0	2,468.8	2,415.8	46.514		
4,600.0	3,928.6	3,648.9	3,275.3	42.1	27.2	130.57	993.4	1,076.1	2,536.5	2,482.1	46.637		
4,700.0	4,008.9	3,722.5	3,338.5	43.2	27.8	130.60	1,019.8	1,103.2	2,604.2	2,548.5	46.752		
4,800.0	4,089.2	3,796.1	3,401.6	44.3	28.5	130.62	1,046.2	1,130.3	2,671.8	2,614.8	46.860		
4,900.0	4,169.5	3,869.8	3,464.8	45.5	29.2	130.63	1,072.6	1,157.3	2,739.5	2,681.2	46.962		
5,000.0	4,249.8	3,943.4	3,528.0	46.6	29.9	130.65	1,099.0	1,184.4	2,807.1	2,747.5	47.058		
5,100.0	4,330.0	4,017.0	3,591.1	47.7	30.6	130.67	1,125.5	1,211.5	2,874.8	2,813.8	47.149		

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Laramie 0993-20-11E - Slot A-1
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-11E	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
5,200.0	4,410.3	4,090.7	3,654.3	48.9	31.3	130.69	1,151.9	1,238.6	2,942.5	2,880.2	47.235		
5,300.0	4,490.6	4,164.3	3,717.5	50.0	31.9	130.70	1,178.3	1,265.7	3,010.1	2,946.5	47.316		
5,400.0	4,570.9	4,237.9	3,780.6	51.2	32.6	130.72	1,204.7	1,292.8	3,077.8	3,012.9	47.393		
5,500.0	4,651.1	4,311.5	3,843.8	52.3	33.3	130.73	1,231.1	1,319.9	3,145.5	3,079.2	47.466		
5,600.0	4,731.5	4,385.2	3,907.0	53.4	34.0	131.05	1,257.6	1,347.0	3,213.1	3,145.5	47.537		
5,700.0	4,813.4	4,460.1	3,971.3	54.5	34.7	132.65	1,284.4	1,374.5	3,279.3	3,210.4	47.580		
5,800.0	4,897.9	4,536.8	4,037.1	55.5	35.4	134.06	1,311.9	1,402.7	3,343.3	3,273.0	47.579		
5,900.0	4,984.5	4,615.1	4,104.3	56.4	36.1	135.28	1,340.0	1,431.5	3,404.9	3,333.3	47.551		
6,000.0	5,073.3	4,695.0	4,172.7	57.3	36.9	136.33	1,368.7	1,460.9	3,464.1	3,391.2	47.498		
6,100.0	5,164.0	4,776.1	4,242.4	58.0	37.6	137.23	1,397.8	1,490.8	3,520.7	3,446.5	47.423		
6,200.0	5,256.4	4,858.5	4,313.0	58.7	38.4	137.99	1,427.3	1,521.1	3,574.8	3,499.3	47.328		
6,300.0	5,350.4	4,941.8	4,384.5	59.3	39.2	138.62	1,457.3	1,551.7	3,626.2	3,549.4	47.215		
6,400.0	5,445.8	5,026.1	4,456.8	59.8	40.0	139.14	1,487.5	1,582.7	3,674.9	3,596.9	47.088		
6,500.0	5,542.4	5,111.0	4,529.7	60.3	40.8	139.55	1,518.0	1,614.0	3,720.9	3,641.6	46.948		
6,600.0	5,640.1	5,196.5	4,603.0	60.6	41.5	139.86	1,548.6	1,645.4	3,764.1	3,683.6	46.798		
6,700.0	5,738.6	5,282.4	4,676.7	60.9	42.3	140.08	1,579.4	1,677.0	3,804.5	3,722.9	46.641		
6,800.0	5,837.7	5,368.5	4,750.5	61.1	43.2	140.22	1,610.3	1,708.7	3,842.1	3,759.4	46.479		
6,900.0	5,937.4	5,454.6	4,824.5	61.3	44.0	140.28	1,641.2	1,740.4	3,876.9	3,793.2	46.316		
7,000.0	6,037.3	5,540.7	4,898.3	61.4	44.8	140.26	1,672.1	1,772.0	3,908.9	3,824.2	46.158		
7,100.0	6,137.3	5,626.3	4,972.3	61.4	45.6	140.17	1,703.0	1,803.7	3,941.7	3,856.0	46.000		
7,200.0	6,237.3	5,709.3	5,045.3	61.4	46.4	140.07	1,733.9	1,835.4	3,975.4	3,887.8	45.842		
7,300.0	6,337.3	5,792.3	5,118.3	61.4	47.2	140.00	1,764.8	1,867.1	4,009.1	3,920.5	45.684		
7,400.0	6,437.3	5,875.3	5,191.3	61.4	48.0	140.00	1,795.7	1,898.8	4,042.8	3,954.2	45.526		
7,500.0	6,537.3	5,958.3	5,264.3	61.4	48.8	140.00	1,826.6	1,930.5	4,076.5	3,987.9	45.368		
7,600.0	6,637.3	6,041.3	5,337.3	61.4	49.6	140.00	1,857.5	1,962.2	4,110.2	4,021.6	45.210		
7,700.0	6,737.3	6,124.3	5,410.3	61.5	50.4	140.00	1,888.4	1,993.9	4,143.9	4,055.3	45.052		
7,800.0	6,837.3	6,207.3	5,483.3	61.5	51.2	140.00	1,919.3	2,025.6	4,177.6	4,089.0	44.894		
7,900.0	6,937.3	6,290.3	5,556.3	61.5	52.0	140.00	1,950.2	2,057.3	4,211.3	4,122.7	44.736		
8,000.0	7,037.3	6,373.3	5,629.3	61.5	52.8	140.00	1,981.1	2,089.0	4,245.0	4,156.4	44.578		
8,100.0	7,137.3	6,456.3	5,702.3	61.5	53.6	140.00	2,012.0	2,120.7	4,278.7	4,190.1	44.420		
8,200.0	7,237.3	6,539.3	5,775.3	61.5	54.4	140.00	2,042.9	2,152.4	4,312.4	4,223.8	44.262		
8,300.0	7,337.3	6,622.3	5,848.3	61.6	55.2	140.00	2,073.8	2,184.1	4,346.1	4,257.5	44.104		
8,400.0	7,437.3	6,705.3	5,921.3	61.6	56.0	140.00	2,104.7	2,215.8	4,379.8	4,291.2	43.946		
8,500.0	7,537.3	6,788.3	5,994.3	61.6	56.8	140.00	2,135.6	2,247.5	4,413.5	4,324.9	43.788		
8,600.0	7,637.3	6,871.3	6,067.3	61.6	57.6	140.00	2,166.5	2,279.2	4,447.2	4,358.6	43.630		
8,700.0	7,737.3	6,954.3	6,140.3	61.6	58.4	140.00	2,197.4	2,310.9	4,480.9	4,392.3	43.472		
8,800.0	7,837.3	7,037.3	6,213.3	61.6	59.2	140.00	2,228.3	2,342.6	4,514.6	4,426.0	43.314		
8,821.7	7,859.0	7,059.0	6,235.0	61.6	59.4	140.00	2,239.0	2,353.3	4,525.3	4,436.7	43.300		

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Laramie 0993-20-11E - Slot A-1
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-11E	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	133.44	-38.6	40.8	56.2				
100.0	100.0	100.0	100.0	0.4	0.4	133.44	-38.6	40.8	56.2	55.4	70.891		
200.0	200.0	200.0	200.0	1.2	1.2	133.44	-38.6	40.8	56.2	53.7	22.728	CC, ES	
300.0	300.0	299.8	299.7	2.4	1.7	138.64	-37.8	41.7	57.9	54.3	15.916		
400.0	399.7	399.3	399.1	3.9	3.3	137.59	-34.4	45.9	63.5	58.3	12.214		
500.0	499.2	498.2	497.6	5.0	4.5	146.07	-28.3	53.3	73.5	67.1	11.431	SF	
600.0	598.1	596.1	594.5	5.8	5.5	147.72	-19.6	63.9	88.8	81.3	11.738		
700.0	696.3	692.4	689.2	6.6	6.4	146.82	-8.4	77.4	109.8	101.2	12.638		
800.0	793.7	786.6	781.0	7.3	7.2	145.12	4.9	93.6	136.7	126.9	13.941		
900.0	890.0	878.3	869.5	8.0	7.9	143.33	20.2	112.2	169.2	158.4	15.542		
1,000.0	985.0	967.1	954.2	8.7	8.5	141.66	37.1	132.8	207.4	195.4	17.363		
1,100.0	1,078.6	1,052.8	1,034.9	9.3	9.1	140.14	55.4	155.0	250.9	237.9	19.340		
1,200.0	1,170.7	1,135.1	1,111.3	10.0	9.6	138.74	74.7	178.5	299.4	285.4	21.426		
1,300.0	1,260.9	1,213.7	1,183.4	10.6	10.1	137.43	94.8	202.9	352.6	337.7	23.583		
1,400.0	1,349.2	1,288.7	1,250.9	11.2	10.6	136.16	115.4	228.0	410.3	394.4	25.775		
1,500.0	1,435.3	1,359.8	1,314.0	11.7	10.9	134.89	136.3	253.3	472.2	455.4	28.089		
1,600.0	1,519.2	1,434.7	1,379.8	12.3	11.1	133.69	159.0	281.0	537.4	519.6	30.244		
1,700.0	1,600.6	1,508.3	1,444.4	12.8	11.4	132.75	181.4	308.1	605.1	586.3	32.268		
1,800.0	1,680.9	1,580.9	1,508.1	13.1	11.6	133.10	203.4	334.9	673.9	654.2	34.240		
1,900.0	1,761.2	1,653.4	1,571.9	13.5	11.9	133.38	225.5	361.7	742.6	722.0	35.964		
2,000.0	1,841.4	1,725.9	1,635.6	14.0	12.1	133.61	247.5	388.5	811.4	789.8	37.487		
2,100.0	1,921.7	1,798.5	1,699.3	14.6	12.4	133.81	269.6	415.3	880.2	857.6	38.836		
2,200.0	2,002.0	1,871.0	1,763.0	15.4	12.6	133.98	291.6	442.1	949.0	925.3	40.019		
2,300.0	2,082.3	1,943.6	1,826.7	16.3	12.9	134.12	313.7	468.9	1,017.8	993.0	41.072		
2,400.0	2,162.5	2,016.1	1,890.4	17.4	13.2	134.25	335.7	495.7	1,086.6	1,060.8	42.016		
2,500.0	2,242.8	2,088.7	1,954.2	18.4	13.5	134.36	357.7	522.5	1,155.4	1,128.5	42.857		
2,600.0	2,323.1	2,161.2	2,017.9	19.5	13.8	134.46	379.8	549.2	1,224.2	1,196.2	43.604		
2,700.0	2,403.4	2,233.8	2,081.6	20.6	14.1	134.55	401.8	576.0	1,293.1	1,263.8	44.278		
2,800.0	2,483.7	2,306.3	2,145.3	21.7	14.4	134.63	423.9	602.8	1,361.9	1,331.5	44.885		
2,900.0	2,563.9	2,378.9	2,209.0	22.8	14.8	134.70	445.9	629.6	1,430.7	1,399.2	45.458		
3,000.0	2,644.2	2,451.4	2,272.7	24.0	15.4	134.77	468.0	656.4	1,499.5	1,466.9	45.972		
3,100.0	2,724.5	2,524.0	2,336.4	25.1	16.0	134.83	490.0	683.2	1,568.3	1,534.5	46.418		
3,200.0	2,804.8	2,596.5	2,400.2	26.2	16.6	134.88	512.0	710.0	1,637.1	1,602.2	46.832		
3,300.0	2,885.0	2,669.1	2,463.9	27.3	17.2	134.93	534.1	736.8	1,705.9	1,669.8	47.216		
3,400.0	2,965.3	2,741.6	2,527.6	28.5	17.8	134.98	556.1	763.5	1,774.8	1,737.4	47.566		
3,500.0	3,045.6	2,814.2	2,591.3	29.6	18.5	135.02	578.2	790.3	1,843.6	1,805.1	47.888		
3,600.0	3,125.9	2,886.7	2,655.0	30.7	19.1	135.06	600.2	817.1	1,912.4	1,872.7	48.185		
3,700.0	3,206.1	2,959.3	2,718.7	31.8	19.7	135.10	622.3	843.9	1,981.2	1,940.3	48.461		
3,800.0	3,286.4	3,031.8	2,782.5	33.0	20.4	135.13	644.3	870.7	2,050.0	2,007.9	48.715		
3,900.0	3,366.7	3,104.4	2,846.2	34.1	21.0	135.17	666.3	897.5	2,118.8	2,075.6	48.951		
4,000.0	3,447.0	3,176.9	2,909.9	35.2	21.6	135.20	688.4	924.3	2,187.7	2,143.2	49.171		
4,100.0	3,527.3	3,249.4	2,973.6	36.4	22.2	135.23	710.4	951.1	2,256.5	2,210.8	49.376		
4,200.0	3,607.5	3,322.0	3,037.3	37.5	22.9	135.25	732.5	977.9	2,325.3	2,278.4	49.567		
4,300.0	3,687.8	3,394.5	3,101.0	38.6	23.5	135.28	754.5	1,004.6	2,394.1	2,346.0	49.746		
4,400.0	3,768.1	3,467.1	3,164.7	39.8	24.1	135.30	776.6	1,031.4	2,462.9	2,413.6	49.913		
4,500.0	3,848.4	3,539.6	3,228.5	40.9	24.7	135.32	798.6	1,058.2	2,531.8	2,481.2	50.070		
4,600.0	3,928.6	3,612.2	3,292.2	42.1	25.4	135.35	820.6	1,085.0	2,600.6	2,548.8	50.217		
4,700.0	4,008.9	3,684.7	3,355.9	43.2	26.0	135.37	842.7	1,111.8	2,669.4	2,616.4	50.356		
4,800.0	4,089.2	3,757.3	3,419.6	44.3	26.6	135.39	864.7	1,138.6	2,738.2	2,684.0	50.486		
4,900.0	4,169.5	3,829.8	3,483.3	45.5	27.3	135.40	886.8	1,165.4	2,807.1	2,751.6	50.609		
5,000.0	4,249.8	3,902.4	3,547.0	46.6	27.9	135.42	908.8	1,192.2	2,875.9	2,819.2	50.725		
5,100.0	4,330.0	3,974.9	3,610.8	47.7	28.5	135.44	930.9	1,218.9	2,944.7	2,886.8	50.835		

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



Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Laramie 0993-20-11E - Slot A-1
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-11E 0.0	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
5,200.0	4,410.3	4,047.5	3,674.5	48.9	29.2	135.45	952.9	1,245.7	3,013.5	2,954.4	50.939		
5,300.0	4,490.6	4,120.0	3,738.2	50.0	29.8	135.47	974.9	1,272.5	3,082.3	3,021.9	51.037		
5,400.0	4,570.9	4,192.6	3,801.9	51.2	30.4	135.48	997.0	1,299.3	3,151.2	3,089.5	51.130		
5,500.0	4,651.1	4,265.1	3,865.6	52.3	31.0	135.50	1,019.0	1,326.1	3,220.0	3,157.1	51.219		
5,600.0	4,731.5	4,337.7	3,929.4	53.4	31.7	135.80	1,041.1	1,352.9	3,288.8	3,224.7	51.305		
5,700.0	4,813.4	4,411.7	3,994.3	54.5	32.3	137.32	1,063.6	1,380.2	3,356.0	3,290.7	51.353		
5,800.0	4,897.9	4,487.6	4,061.0	55.5	33.0	138.65	1,086.6	1,408.3	3,420.9	3,354.3	51.344		
5,900.0	4,984.5	4,565.5	4,129.4	56.4	33.7	139.80	1,110.3	1,437.0	3,483.2	3,415.3	51.299		
6,000.0	5,073.3	4,645.0	4,199.2	57.3	34.4	140.78	1,134.4	1,466.4	3,543.0	3,473.8	51.221		
6,100.0	5,164.0	4,726.1	4,270.5	58.0	35.1	141.61	1,159.1	1,496.3	3,600.0	3,529.6	51.112		
6,200.0	5,256.4	4,808.6	4,342.9	58.7	35.8	142.32	1,184.1	1,526.8	3,654.2	3,582.6	50.977		
6,300.0	5,350.4	4,892.3	4,416.4	59.3	36.5	142.90	1,209.6	1,557.7	3,705.6	3,632.7	50.818		
6,400.0	5,445.8	4,977.1	4,490.9	59.8	37.2	143.37	1,235.4	1,589.0	3,754.1	3,680.0	50.638		
6,500.0	5,542.4	5,062.9	4,566.2	60.3	38.0	143.73	1,261.4	1,620.7	3,799.7	3,724.3	50.440		
6,600.0	5,640.1	5,149.4	4,642.2	60.6	38.7	144.00	1,287.7	1,652.6	3,842.2	3,765.7	50.227		
6,700.0	5,738.6	5,236.5	4,718.7	60.9	39.5	144.19	1,314.2	1,684.8	3,881.7	3,804.1	50.003		
6,800.0	5,837.7	5,324.0	4,795.6	61.1	40.3	144.29	1,340.8	1,717.1	3,918.2	3,839.5	49.770		
6,900.0	5,937.4	5,411.8	4,872.7	61.3	41.0	144.32	1,367.4	1,749.5	3,951.7	3,871.9	49.533		
7,000.0	6,037.3	5,499.7	4,949.9	61.4	41.8	144.27	1,394.1	1,782.0	3,982.1	3,901.3	49.299		
7,100.0	6,137.3	5,587.6	5,027.0	61.4	42.4	144.16	1,420.8	1,814.7	4,011.6	3,931.2	49.066		
7,200.0	6,237.3	5,675.5	5,104.1	61.4	42.9	144.00	1,447.5	1,847.3	4,041.0	3,960.7	48.833		
7,300.0	6,337.3	5,763.4	5,181.2	61.4	43.4	143.79	1,474.2	1,879.8	4,070.4	3,990.1	48.600		
7,400.0	6,437.3	5,851.3	5,258.3	61.4	43.9	143.53	1,500.9	1,912.3	4,100.0	4,019.5	48.367		
7,500.0	6,537.3	5,939.2	5,335.4	61.4	44.4	143.23	1,527.6	1,944.8	4,129.6	4,048.9	48.134		
7,600.0	6,637.3	6,027.1	5,412.5	61.4	44.9	142.89	1,554.3	1,977.3	4,159.2	4,078.3	47.901		
7,700.0	6,737.3	6,115.0	5,489.6	61.5	45.4	142.50	1,581.0	2,009.8	4,188.6	4,107.7	47.668		
7,800.0	6,837.3	6,202.9	5,566.7	61.5	45.9	142.07	1,607.7	2,042.3	4,218.0	4,137.1	47.435		
7,900.0	6,937.3	6,290.8	5,643.8	61.5	46.4	141.60	1,634.4	2,074.8	4,247.4	4,166.5	47.202		
8,000.0	7,037.3	6,378.7	5,720.9	61.5	46.9	141.09	1,661.1	2,107.3	4,276.8	4,195.9	46.969		
8,100.0	7,137.3	6,466.6	5,798.0	61.5	47.4	140.54	1,687.8	2,139.8	4,306.2	4,225.3	46.736		
8,200.0	7,237.3	6,554.5	5,875.1	61.5	47.9	140.00	1,714.5	2,172.3	4,335.6	4,254.7	46.503		
8,300.0	7,337.3	6,642.4	5,952.2	61.6	48.4	139.41	1,741.2	2,204.8	4,365.0	4,284.1	46.270		
8,400.0	7,437.3	6,730.3	6,029.3	61.6	48.9	138.79	1,767.9	2,237.3	4,394.4	4,313.5	46.037		
8,500.0	7,537.3	6,818.2	6,106.4	61.6	49.4	138.14	1,794.6	2,269.8	4,423.8	4,342.9	45.804		
8,600.0	7,637.3	6,906.1	6,183.5	61.6	49.9	137.46	1,821.3	2,302.3	4,453.2	4,372.3	45.571		
8,700.0	7,737.3	6,994.0	6,260.6	61.6	50.4	136.75	1,848.0	2,334.8	4,482.6	4,401.7	45.338		
8,800.0	7,837.3	7,081.9	6,337.7	61.6	50.9	136.00	1,874.7	2,367.3	4,512.0	4,431.1	45.105		
8,821.7	7,859.0	7,100.0	6,350.0	61.6	51.0	135.80	1,880.0	2,370.0	4,515.0	4,435.0	45.070		

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Laramie 0993-20-11E - Slot A-1
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-11E	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	133.24	-49.5	52.7	72.3				
100.0	100.0	100.0	100.0	0.4	0.4	133.24	-49.5	52.7	72.3	71.5	91.282		
200.0	200.0	200.0	200.0	1.2	1.2	133.24	-49.5	52.7	72.3	69.8	29.266	CC, ES	
300.0	300.0	299.6	299.6	2.4	1.6	138.74	-49.1	53.3	74.1	70.5	20.568		
400.0	399.7	398.7	398.6	3.9	3.0	138.41	-46.5	57.2	80.0	74.8	15.354		
500.0	499.2	497.2	496.7	5.0	4.3	147.84	-41.5	64.6	90.7	84.2	13.906		
600.0	598.1	594.6	593.2	5.8	5.4	150.47	-34.2	75.4	106.9	99.2	13.838	SF	
700.0	696.3	690.3	687.4	6.6	6.3	150.29	-24.9	89.2	128.9	120.0	14.487		
800.0	793.7	783.7	778.6	7.3	7.0	149.05	-13.6	105.9	156.8	146.7	15.617		
900.0	890.0	874.5	866.4	8.0	7.7	147.49	-0.7	125.0	190.6	179.4	17.101		
1,000.0	985.0	962.1	950.2	8.7	8.4	145.92	13.6	146.2	230.1	217.9	18.848		
1,100.0	1,078.6	1,046.4	1,029.9	9.3	8.9	144.43	29.0	169.1	275.2	262.0	20.792		
1,200.0	1,170.7	1,127.0	1,105.1	10.0	9.5	143.03	45.3	193.2	325.4	311.2	22.878		
1,300.0	1,260.9	1,203.8	1,175.7	10.6	10.0	141.69	62.2	218.2	380.6	365.4	25.073		
1,400.0	1,349.2	1,276.7	1,241.7	11.2	10.4	140.38	79.4	243.7	440.3	424.2	27.387		
1,500.0	1,435.3	1,352.6	1,309.9	11.7	10.6	139.13	98.1	271.5	503.8	486.8	29.667		
1,600.0	1,519.2	1,427.6	1,377.1	12.3	10.8	138.12	116.6	298.9	570.0	552.1	31.829		
1,700.0	1,600.6	1,500.1	1,442.2	12.8	11.1	137.31	134.5	325.5	638.8	620.0	33.911		
1,800.0	1,680.9	1,571.5	1,506.3	13.1	11.3	137.66	152.2	351.6	708.7	689.0	35.998		
1,900.0	1,761.2	1,642.9	1,570.3	13.5	11.6	137.96	169.8	377.8	778.7	758.1	37.850		
2,000.0	1,841.4	1,714.4	1,634.4	14.0	11.8	138.20	187.4	403.9	848.6	827.1	39.506		
2,100.0	1,921.7	1,785.8	1,698.5	14.6	12.1	138.41	205.1	430.0	918.6	896.2	40.979		
2,200.0	2,002.0	1,857.2	1,762.6	15.4	12.3	138.58	222.7	456.2	988.5	965.2	42.293		
2,300.0	2,082.3	1,928.6	1,826.7	16.3	12.6	138.74	240.3	482.3	1,058.5	1,034.2	43.475		
2,400.0	2,162.5	2,000.0	1,890.7	17.4	12.9	138.87	258.0	508.4	1,128.5	1,103.1	44.542		
2,500.0	2,242.8	2,071.4	1,954.8	18.4	13.2	138.99	275.6	534.6	1,198.5	1,172.1	45.492		
2,600.0	2,323.1	2,142.9	2,018.9	19.5	13.5	139.10	293.2	560.7	1,268.4	1,241.1	46.353		
2,700.0	2,403.4	2,214.3	2,083.0	20.6	13.8	139.19	310.9	586.9	1,338.4	1,310.0	47.138		
2,800.0	2,483.7	2,285.7	2,147.1	21.7	14.1	139.28	328.5	613.0	1,408.4	1,379.0	47.848		
2,900.0	2,563.9	2,357.1	2,211.2	22.8	14.4	139.35	346.1	639.1	1,478.4	1,447.9	48.488		
3,000.0	2,644.2	2,428.5	2,275.2	24.0	14.7	139.42	363.8	665.3	1,548.4	1,516.8	49.062		
3,100.0	2,724.5	2,500.0	2,339.3	25.1	15.1	139.49	381.4	691.4	1,618.3	1,585.7	49.627		
3,200.0	2,804.8	2,571.4	2,403.4	26.2	15.6	139.55	399.0	717.5	1,688.3	1,654.7	50.168		
3,300.0	2,885.0	2,642.8	2,467.5	27.3	16.2	139.60	416.7	743.7	1,758.3	1,723.5	50.584		
3,400.0	2,965.3	2,714.2	2,531.6	28.5	16.7	139.65	434.3	769.8	1,828.3	1,792.4	50.999		
3,500.0	3,045.6	2,785.6	2,595.7	29.6	17.3	139.70	451.9	795.9	1,898.3	1,861.3	51.386		
3,600.0	3,125.9	2,857.1	2,659.7	30.7	17.9	139.74	469.6	822.1	1,968.3	1,930.2	51.745		
3,700.0	3,206.1	2,928.5	2,723.8	31.8	18.4	139.78	487.2	848.2	2,038.3	1,999.1	52.076		
3,800.0	3,286.4	2,999.9	2,787.9	33.0	19.0	139.82	504.8	874.4	2,108.2	2,068.0	52.384		
3,900.0	3,366.7	3,071.3	2,852.0	34.1	19.6	139.85	522.4	900.5	2,178.2	2,136.9	52.672		
4,000.0	3,447.0	3,142.7	2,916.1	35.2	20.1	139.89	540.1	926.6	2,248.2	2,205.8	52.940		
4,100.0	3,527.3	3,214.1	2,980.2	36.4	20.7	139.92	557.7	952.8	2,318.2	2,274.6	53.190		
4,200.0	3,607.5	3,285.6	3,044.2	37.5	21.3	139.95	575.3	978.9	2,388.2	2,343.5	53.424		
4,300.0	3,687.8	3,357.0	3,108.3	38.6	21.9	139.98	593.0	1,005.0	2,458.2	2,412.4	53.643		
4,400.0	3,768.1	3,428.4	3,172.4	39.8	22.4	140.00	610.6	1,031.2	2,528.2	2,481.2	53.849		
4,500.0	3,848.4	3,499.8	3,236.5	40.9	23.0	140.03	628.2	1,057.3	2,598.2	2,550.1	54.042		
4,600.0	3,928.6	3,571.2	3,300.6	42.1	23.6	140.05	645.9	1,083.4	2,668.2	2,619.0	54.224		
4,700.0	4,008.9	3,642.7	3,364.7	43.2	24.2	140.07	663.5	1,109.6	2,738.2	2,687.8	54.396		
4,800.0	4,089.2	3,714.1	3,428.7	44.3	24.7	140.09	681.1	1,135.7	2,808.2	2,756.7	54.557		
4,900.0	4,169.5	3,785.5	3,492.8	45.5	25.3	140.11	698.8	1,161.9	2,878.1	2,825.5	54.710		
5,000.0	4,249.8	3,856.9	3,556.9	46.6	25.9	140.13	716.4	1,188.0	2,948.1	2,894.4	54.854		
5,100.0	4,330.0	3,928.3	3,621.0	47.7	26.5	140.15	734.0	1,214.1	3,018.1	2,963.2	54.991		

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Laramie 0993-20-11E - Slot A-1
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-11E	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
5,200.0	4,410.3	3,999.8	3,685.1	48.9	27.0	140.17	751.7	1,240.3	3,088.1	3,032.1	55.120		
5,300.0	4,490.6	4,071.2	3,749.1	50.0	27.6	140.18	769.3	1,266.4	3,158.1	3,100.9	55.243		
5,400.0	4,570.9	4,142.6	3,813.2	51.2	28.2	140.20	786.9	1,292.5	3,228.1	3,169.8	55.359		
5,500.0	4,651.1	4,214.0	3,877.3	52.3	28.8	140.21	804.6	1,318.7	3,298.1	3,238.6	55.470		
5,600.0	4,731.5	4,285.5	3,941.4	53.4	29.3	140.50	822.2	1,344.8	3,368.1	3,307.5	55.577		
5,700.0	4,813.4	4,358.4	4,006.9	54.5	29.9	141.94	840.2	1,371.5	3,436.4	3,374.6	55.637		
5,800.0	4,897.9	4,433.6	4,074.4	55.5	30.5	143.18	858.8	1,399.0	3,502.2	3,439.2	55.622		
5,900.0	4,984.5	4,510.9	4,143.7	56.4	31.1	144.24	877.9	1,427.3	3,565.3	3,501.2	55.561		
6,000.0	5,073.3	4,590.1	4,214.7	57.3	31.8	145.15	897.4	1,456.3	3,625.7	3,560.3	55.458		
6,100.0	5,164.0	4,671.0	4,287.4	58.0	32.4	145.92	917.4	1,485.9	3,683.2	3,616.6	55.317		
6,200.0	5,256.4	4,753.5	4,361.4	58.7	33.1	146.57	937.8	1,516.1	3,737.8	3,670.0	55.141		
6,300.0	5,350.4	4,837.5	4,436.8	59.3	33.8	147.10	958.5	1,546.9	3,789.3	3,720.3	54.935		
6,400.0	5,445.8	4,922.8	4,513.3	59.8	34.5	147.52	979.6	1,578.1	3,837.8	3,767.6	54.701		
6,500.0	5,542.4	5,009.3	4,590.9	60.3	35.2	147.85	1,000.9	1,609.7	3,883.1	3,811.8	54.443		
6,600.0	5,640.1	5,096.7	4,669.3	60.6	35.9	148.09	1,022.5	1,641.7	3,925.2	3,852.8	54.165		
6,700.0	5,738.6	5,184.9	4,748.5	60.9	36.6	148.24	1,044.3	1,674.0	3,964.2	3,890.6	53.872		
6,800.0	5,837.7	5,273.7	4,828.2	61.1	37.3	148.32	1,066.2	1,706.5	3,999.8	3,925.2	53.566		
6,900.0	5,937.4	5,363.0	4,908.3	61.3	38.0	148.33	1,088.3	1,739.2	4,032.2	3,956.5	53.253		
7,000.0	6,037.3	5,452.6	4,988.7	61.4	38.7	148.26	1,110.4	1,771.9	4,061.4	3,984.6	52.942		
7,100.0	6,137.3	5,542.3	5,069.2	61.4	39.5	112.61	1,132.5	1,804.8	4,087.7	4,010.2	52.740		
7,200.0	6,237.3	6,750.7	6,237.3	61.4	44.0	109.65	1,274.1	2,014.6	4,090.5	4,002.8	46.677		
7,300.0	6,337.3	6,850.7	6,337.3	61.4	44.0	109.65	1,274.1	2,014.6	4,090.5	4,002.8	46.656		
7,400.0	6,437.3	6,950.7	6,437.3	61.4	44.0	109.65	1,274.1	2,014.6	4,090.5	4,002.7	46.635		
7,500.0	6,537.3	7,050.7	6,537.3	61.4	44.1	109.65	1,274.1	2,014.6	4,090.5	4,002.7	46.614		
7,600.0	6,637.3	7,150.7	6,637.3	61.4	44.1	109.65	1,274.1	2,014.6	4,090.5	4,002.7	46.593		
7,700.0	6,737.3	7,250.7	6,737.3	61.5	44.1	109.65	1,274.1	2,014.6	4,090.5	4,002.6	46.572		
7,800.0	6,837.3	7,350.7	6,837.3	61.5	44.1	109.65	1,274.1	2,014.6	4,090.5	4,002.6	46.551		
7,900.0	6,937.3	7,450.7	6,937.3	61.5	44.2	109.65	1,274.1	2,014.6	4,090.5	4,002.5	46.529		
8,000.0	7,037.3	7,550.7	7,037.3	61.5	44.2	109.65	1,274.1	2,014.6	4,090.5	4,002.5	46.508		
8,100.0	7,137.3	7,650.7	7,137.3	61.5	44.2	109.65	1,274.1	2,014.6	4,090.5	4,002.5	46.486		
8,200.0	7,237.3	7,750.7	7,237.3	61.5	44.2	109.65	1,274.1	2,014.6	4,090.5	4,002.4	46.464		
8,300.0	7,337.3	7,850.7	7,337.3	61.6	44.3	109.65	1,274.1	2,014.6	4,090.5	4,002.4	46.442		
8,400.0	7,437.3	7,950.7	7,437.3	61.6	44.3	109.65	1,274.1	2,014.6	4,090.5	4,002.3	46.420		
8,500.0	7,537.3	8,050.7	7,537.3	61.6	44.3	109.65	1,274.1	2,014.6	4,090.5	4,002.3	46.398		
8,600.0	7,637.3	8,150.7	7,637.3	61.6	44.3	109.65	1,274.1	2,014.6	4,090.5	4,002.3	46.375		
8,700.0	7,737.3	8,250.7	7,737.3	61.6	44.4	109.65	1,274.1	2,014.6	4,090.5	4,002.2	46.353		
8,800.0	7,837.3	8,350.7	7,837.3	61.6	44.4	109.65	1,274.1	2,014.6	4,090.5	4,002.2	46.330		
8,821.7	7,859.0	8,372.4	7,859.0	61.6	44.4	109.65	1,274.1	2,014.6	4,090.5	4,002.2	46.327		

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



Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Laramie 0993-20-11E - Slot A-1
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-11E	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	133.24	-60.5	64.3	88.2				
100.0	100.0	100.0	100.0	0.4	0.4	133.24	-60.5	64.3	88.2	87.4	111.404		
200.0	200.0	200.0	200.0	1.2	1.2	133.24	-60.5	64.3	88.2	85.8	35.717	CC, ES	
300.0	300.0	299.0	299.0	2.4	1.7	138.40	-59.9	65.3	90.3	86.6	24.727		
400.0	399.7	397.5	397.3	3.9	3.2	137.86	-57.5	70.0	96.9	91.6	18.103		
500.0	499.2	495.2	494.6	5.0	4.5	147.51	-53.1	78.4	108.8	102.0	16.113		
600.0	598.1	591.6	590.0	5.8	5.5	150.66	-47.0	90.2	126.6	118.6	15.751	SF	
700.0	696.3	686.0	682.9	6.6	6.4	151.07	-39.1	105.3	150.5	141.2	16.229		
800.0	793.7	777.9	772.5	7.3	7.1	150.35	-29.8	123.2	180.6	170.2	17.263		
900.0	890.0	866.8	858.4	8.0	7.8	149.22	-19.3	143.5	216.8	205.2	18.702		
1,000.0	985.0	952.3	940.2	8.7	8.4	147.97	-7.7	165.8	258.9	246.2	20.440		
1,100.0	1,078.6	1,034.2	1,017.5	9.3	9.0	146.72	4.8	189.7	306.6	292.9	22.405		
1,200.0	1,170.7	1,112.1	1,090.1	10.0	9.5	145.50	17.8	214.7	359.5	344.9	24.552		
1,300.0	1,260.9	1,188.9	1,160.8	10.6	9.9	144.26	31.7	241.5	417.5	401.9	26.802		
1,400.0	1,349.2	1,264.0	1,229.3	11.2	10.1	143.15	45.8	268.7	479.3	462.9	29.244		
1,500.0	1,435.3	1,340.2	1,298.8	11.7	10.3	142.26	60.2	296.3	544.1	526.9	31.511		
1,600.0	1,519.2	1,413.9	1,366.1	12.3	10.6	141.51	74.1	323.0	611.7	593.5	33.696		
1,700.0	1,600.6	1,485.1	1,431.1	12.8	10.8	140.88	87.5	348.8	681.8	662.8	35.836		
1,800.0	1,680.9	1,555.0	1,494.9	13.1	11.0	141.32	100.6	374.1	753.2	733.4	38.033		
1,900.0	1,761.2	1,625.0	1,558.8	13.5	11.3	141.69	113.8	399.4	824.6	804.0	40.007		
2,000.0	1,841.4	1,694.9	1,622.6	14.0	11.5	141.99	127.0	424.8	896.0	874.5	41.788		
2,100.0	1,921.7	1,764.9	1,686.5	14.6	11.8	142.25	140.2	450.1	967.4	945.1	43.388		
2,200.0	2,002.0	1,834.8	1,750.3	15.4	12.1	142.48	153.4	475.5	1,038.8	1,015.6	44.838		
2,300.0	2,082.3	1,904.7	1,814.2	16.3	12.3	142.68	166.5	500.8	1,110.2	1,086.2	46.154		
2,400.0	2,162.5	1,974.7	1,878.0	17.4	12.6	142.85	179.7	526.1	1,181.6	1,156.7	47.341		
2,500.0	2,242.8	2,044.6	1,941.9	18.4	12.9	143.00	192.9	551.5	1,253.1	1,227.2	48.422		
2,600.0	2,323.1	2,114.6	2,005.8	19.5	13.2	143.14	206.1	576.8	1,324.5	1,297.7	49.410		
2,700.0	2,403.4	2,184.5	2,069.6	20.6	13.5	143.26	219.2	602.2	1,395.9	1,368.2	50.309		
2,800.0	2,483.7	2,254.5	2,133.5	21.7	13.8	143.37	232.4	627.5	1,467.4	1,438.7	51.129		
2,900.0	2,563.9	2,324.4	2,197.3	22.8	14.1	143.47	245.6	652.8	1,538.8	1,509.1	51.883		
3,000.0	2,644.2	2,394.4	2,261.2	24.0	14.4	143.56	258.8	678.2	1,610.3	1,579.6	52.579		
3,100.0	2,724.5	2,464.3	2,325.0	25.1	14.7	143.65	271.9	703.5	1,681.7	1,650.1	53.212		
3,200.0	2,804.8	2,534.3	2,388.9	26.2	15.0	143.72	285.1	728.9	1,753.1	1,720.6	53.795		
3,300.0	2,885.0	2,604.2	2,452.7	27.3	15.4	143.79	298.3	754.2	1,824.6	1,791.0	54.343		
3,400.0	2,965.3	2,674.2	2,516.6	28.5	15.8	143.86	311.5	779.5	1,896.0	1,861.5	54.866		
3,500.0	3,045.6	2,744.1	2,580.4	29.6	16.3	143.92	324.6	804.9	1,967.5	1,931.9	55.328		
3,600.0	3,125.9	2,814.1	2,644.3	30.7	16.8	143.98	337.8	830.2	2,038.9	2,002.4	55.755		
3,700.0	3,206.1	2,884.0	2,708.1	31.8	17.4	144.03	351.0	855.6	2,110.4	2,072.8	56.160		
3,800.0	3,286.4	2,954.0	2,772.0	33.0	17.9	144.08	364.2	880.9	2,181.8	2,143.3	56.536		
3,900.0	3,366.7	3,023.9	2,835.8	34.1	18.4	144.12	377.3	906.2	2,253.3	2,213.7	56.888		
4,000.0	3,447.0	3,093.9	2,899.7	35.2	18.9	144.17	390.5	931.6	2,324.8	2,284.1	57.216		
4,100.0	3,527.3	3,163.8	2,963.5	36.4	19.4	144.21	403.7	956.9	2,396.2	2,354.6	57.525		
4,200.0	3,607.5	3,233.8	3,027.4	37.5	20.0	144.25	416.9	982.3	2,467.7	2,425.0	57.815		
4,300.0	3,687.8	3,303.7	3,091.2	38.6	20.5	144.28	430.0	1,007.6	2,539.1	2,495.4	58.086		
4,400.0	3,768.1	3,373.7	3,155.1	39.8	21.0	144.32	443.2	1,032.9	2,610.6	2,565.8	58.343		
4,500.0	3,848.4	3,443.6	3,218.9	40.9	21.5	144.35	456.4	1,058.3	2,682.0	2,636.3	58.584		
4,600.0	3,928.6	3,513.6	3,282.8	42.1	22.0	144.38	469.6	1,083.6	2,753.5	2,706.7	58.811		
4,700.0	4,008.9	3,583.5	3,346.7	43.2	22.6	144.41	482.7	1,109.0	2,824.9	2,777.1	59.026		
4,800.0	4,089.2	3,653.5	3,410.5	44.3	23.1	144.44	495.9	1,134.3	2,896.4	2,847.5	59.229		
4,900.0	4,169.5	3,723.4	3,474.4	45.5	23.6	144.46	509.1	1,159.6	2,967.9	2,917.9	59.421		
5,000.0	4,249.8	3,793.4	3,538.2	46.6	24.1	144.49	522.3	1,185.0	3,039.3	2,988.3	59.603		
5,100.0	4,330.0	3,863.3	3,602.1	47.7	24.6	144.51	535.4	1,210.3	3,110.8	3,058.7	59.776		

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



Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Laramie 0993-20-11E - Slot A-1
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-11E	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
5,200.0	4,410.3	3,933.3	3,665.9	48.9	25.2	144.53	548.6	1,235.6	3,182.2	3,129.2	59.940		
5,300.0	4,490.6	4,003.2	3,729.8	50.0	25.7	144.56	561.8	1,261.0	3,253.7	3,199.6	60.096		
5,400.0	4,570.9	4,073.2	3,793.6	51.2	26.2	144.58	575.0	1,286.3	3,325.2	3,270.0	60.244		
5,500.0	4,651.1	4,143.1	3,857.5	52.3	26.7	144.60	588.1	1,311.7	3,396.6	3,340.4	60.385		
5,600.0	4,731.5	4,213.1	3,921.4	53.4	27.3	144.87	601.3	1,337.0	3,468.0	3,410.7	60.521		
5,700.0	4,813.4	4,284.7	3,986.8	54.5	27.8	146.23	614.8	1,363.0	3,537.8	3,479.4	60.598		
5,800.0	4,897.9	4,358.8	4,054.4	55.5	28.3	147.39	628.8	1,389.8	3,604.9	3,545.4	60.583		
5,900.0	4,984.5	4,435.1	4,124.0	56.4	28.9	148.39	643.2	1,417.5	3,669.2	3,608.6	60.512		
6,000.0	5,073.3	4,513.6	4,195.7	57.3	29.5	149.24	657.9	1,445.9	3,730.7	3,668.9	60.388		
6,100.0	5,164.0	4,594.0	4,269.1	58.0	30.1	149.96	673.1	1,475.0	3,789.2	3,726.3	60.218		
6,200.0	5,256.4	4,676.2	4,344.1	58.7	30.7	150.56	688.6	1,504.8	3,844.6	3,780.5	60.004		
6,300.0	5,350.4	4,760.2	4,420.7	59.3	31.4	151.05	704.4	1,535.2	3,896.9	3,831.7	59.753		
6,400.0	5,445.8	4,845.6	4,498.7	59.8	32.0	151.45	720.5	1,566.1	3,945.9	3,879.6	59.467		
6,500.0	5,542.4	4,932.3	4,577.9	60.3	32.6	151.75	736.8	1,597.6	3,991.7	3,924.2	59.152		
6,600.0	5,640.1	5,020.3	4,658.2	60.6	33.3	151.97	753.4	1,629.4	4,034.1	3,965.5	58.812		
6,700.0	5,738.6	5,109.2	4,739.4	60.9	34.0	152.12	770.1	1,661.7	4,073.1	4,003.4	58.451		
6,800.0	5,837.7	5,199.0	4,821.4	61.1	34.6	152.19	787.0	1,694.2	4,108.7	4,038.0	58.074		
6,900.0	5,937.4	5,289.5	4,903.9	61.3	35.3	152.19	804.1	1,727.0	4,140.9	4,069.1	57.688		
7,000.0	6,037.3	5,380.4	4,987.0	61.4	36.0	152.13	821.2	1,759.9	4,169.5	4,096.8	57.304		
7,100.0	6,137.3	5,471.7	5,070.3	61.4	36.7	116.52	838.4	1,793.0	4,195.3	4,121.7	57.057		
7,200.0	6,237.3	5,563.4	5,153.6	61.4	37.4	113.77	855.7	1,826.3	4,220.5	4,147.9	56.812		
7,300.0	6,337.3	5,655.1	5,236.5	61.4	38.1	113.77	873.0	1,859.6	4,245.7	4,173.1	56.567		
7,400.0	6,437.3	5,746.8	5,319.4	61.4	38.8	113.77	890.3	1,892.9	4,270.9	4,198.3	56.322		
7,500.0	6,537.3	5,838.5	5,402.3	61.4	39.5	113.77	907.6	1,926.2	4,296.1	4,223.5	56.077		
7,600.0	6,637.3	5,930.2	5,485.2	61.4	40.2	113.77	924.9	1,959.5	4,321.3	4,248.7	55.832		
7,700.0	6,737.3	6,021.9	5,568.1	61.5	40.9	113.77	942.2	1,992.8	4,346.5	4,273.9	55.587		
7,800.0	6,837.3	6,113.6	5,651.0	61.5	41.6	113.77	959.5	2,026.1	4,371.7	4,299.1	55.342		
7,900.0	6,937.3	6,205.3	5,733.9	61.5	42.3	113.77	976.8	2,059.4	4,396.9	4,324.3	55.097		
8,000.0	7,037.3	6,297.0	5,816.8	61.5	43.0	113.77	994.1	2,092.7	4,422.1	4,349.5	54.852		
8,100.0	7,137.3	6,388.7	5,899.7	61.5	43.7	113.77	1,011.4	2,126.0	4,447.3	4,374.7	54.607		
8,200.0	7,237.3	6,480.4	5,982.6	61.5	44.4	113.77	1,028.7	2,159.3	4,472.5	4,400.0	54.362		
8,300.0	7,337.3	6,572.1	6,065.5	61.6	45.1	113.77	1,046.0	2,192.6	4,497.7	4,425.2	54.117		
8,400.0	7,437.3	6,663.8	6,148.4	61.6	45.8	113.77	1,063.3	2,225.9	4,522.9	4,450.4	53.872		
8,500.0	7,537.3	6,755.5	6,231.3	61.6	46.5	113.77	1,080.6	2,259.2	4,548.1	4,475.6	53.627		
8,600.0	7,637.3	6,847.2	6,314.2	61.6	47.2	113.77	1,097.9	2,292.5	4,573.3	4,500.8	53.382		
8,700.0	7,737.3	6,938.9	6,397.1	61.6	47.9	113.77	1,115.2	2,325.8	4,598.5	4,526.0	53.137		
8,800.0	7,837.3	7,030.6	6,480.0	61.6	48.6	113.77	1,132.5	2,359.1	4,623.7	4,551.2	52.892		
8,821.7	7,859.0	7,052.3	6,501.7	61.6	48.6	113.77	1,137.7	2,364.3	4,628.9	4,556.4	52.891		

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Laramie 0993-20-11E - Slot A-1
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-11E	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	133.25	-71.4	75.9	104.2				
100.0	100.0	100.0	100.0	0.4	0.4	133.25	-71.4	75.9	104.2	103.4	131.536		
200.0	200.0	200.0	200.0	1.2	1.2	133.25	-71.4	75.9	104.2	101.7	42.171	CC, ES	
300.0	300.0	298.5	298.4	2.4	1.7	138.41	-71.0	77.0	106.4	102.7	29.015		
400.0	399.7	396.1	395.9	3.9	3.2	138.08	-69.2	81.9	113.6	108.1	20.696		
500.0	499.2	492.9	492.3	5.0	4.5	148.18	-66.0	90.6	126.6	119.6	18.090		
600.0	598.1	588.2	586.6	5.8	5.5	151.93	-61.6	102.9	145.9	137.5	17.442	SF	
700.0	696.3	681.3	678.3	6.6	6.3	152.95	-55.9	118.4	171.5	161.8	17.767		
800.0	793.7	771.6	766.5	7.3	7.0	152.75	-49.2	136.9	203.5	192.7	18.718		
900.0	890.0	858.7	850.7	8.0	7.7	152.02	-41.6	157.7	241.8	229.8	20.118		
1,000.0	985.0	942.2	930.6	8.7	8.3	151.08	-33.3	180.5	286.1	273.1	21.852		
1,100.0	1,078.6	1,021.7	1,005.8	9.3	8.9	150.07	-24.5	204.7	336.2	322.1	23.840		
1,200.0	1,170.7	1,100.0	1,078.9	10.0	9.4	148.98	-14.9	230.9	391.6	376.6	25.945		
1,300.0	1,260.9	1,173.8	1,147.2	10.6	9.6	147.96	-5.3	257.3	451.8	435.9	28.528		
1,400.0	1,349.2	1,251.1	1,218.7	11.2	9.8	147.11	4.8	285.0	515.1	498.4	30.904		
1,500.0	1,435.3	1,326.0	1,287.8	11.7	10.0	146.41	14.5	311.9	581.4	563.9	33.218		
1,600.0	1,519.2	1,398.2	1,354.6	12.3	10.3	145.79	24.0	337.8	650.5	632.2	35.481		
1,700.0	1,600.6	1,467.7	1,418.8	12.8	10.5	145.25	33.0	362.7	722.4	703.2	37.721		
1,800.0	1,680.9	1,535.9	1,481.8	13.1	10.8	145.67	41.9	387.1	795.4	775.6	40.065		
1,900.0	1,761.2	1,604.1	1,544.9	13.5	11.0	146.02	50.8	411.5	868.5	847.9	42.192		
2,000.0	1,841.4	1,672.3	1,607.9	14.0	11.2	146.31	59.7	436.0	941.6	920.2	44.123		
2,100.0	1,921.7	1,740.5	1,671.0	14.6	11.5	146.56	68.6	460.4	1,014.7	992.5	45.884		
2,200.0	2,002.0	1,808.6	1,734.0	15.4	11.8	146.78	77.5	484.9	1,087.8	1,064.9	47.495		
2,300.0	2,082.3	1,876.8	1,797.0	16.3	12.0	146.97	86.4	509.3	1,160.9	1,137.1	48.961		
2,400.0	2,162.5	1,945.0	1,860.1	17.4	12.3	147.14	95.3	533.8	1,234.0	1,209.4	50.302		
2,500.0	2,242.8	2,013.2	1,923.1	18.4	12.6	147.29	104.2	558.2	1,307.1	1,281.7	51.534		
2,600.0	2,323.1	2,081.4	1,986.1	19.5	12.9	147.42	113.1	582.7	1,380.2	1,354.0	52.661		
2,700.0	2,403.4	2,149.6	2,049.2	20.6	13.1	147.54	122.0	607.1	1,453.3	1,426.2	53.696		
2,800.0	2,483.7	2,217.8	2,112.2	21.7	13.4	147.65	130.9	631.5	1,526.4	1,498.5	54.652		
2,900.0	2,563.9	2,286.0	2,175.2	22.8	13.7	147.75	139.8	656.0	1,599.5	1,570.7	55.532		
3,000.0	2,644.2	2,354.2	2,238.3	24.0	14.0	147.84	148.7	680.4	1,672.7	1,643.0	56.342		
3,100.0	2,724.5	2,422.4	2,301.3	25.1	14.3	147.92	157.6	704.9	1,745.8	1,715.2	57.095		
3,200.0	2,804.8	2,490.6	2,364.3	26.2	14.6	147.99	166.5	729.3	1,818.9	1,787.4	57.793		
3,300.0	2,885.0	2,558.7	2,427.4	27.3	14.9	148.06	175.4	753.8	1,892.0	1,859.7	58.438		
3,400.0	2,965.3	2,626.9	2,490.4	28.5	15.2	148.13	184.3	778.2	1,965.2	1,931.9	59.040		
3,500.0	3,045.6	2,695.1	2,553.4	29.6	15.6	148.19	193.2	802.7	2,038.3	2,004.1	59.603		
3,600.0	3,125.9	2,763.3	2,616.5	30.7	15.9	148.24	202.1	827.1	2,111.4	2,076.3	60.120		
3,700.0	3,206.1	2,831.5	2,679.5	31.8	16.3	148.30	211.0	851.5	2,184.5	2,148.5	60.586		
3,800.0	3,286.4	2,899.7	2,742.5	33.0	16.8	148.34	219.9	876.0	2,257.7	2,220.7	61.072		
3,900.0	3,366.7	2,967.9	2,805.6	34.1	17.2	148.39	228.8	900.4	2,330.8	2,292.9	61.509		
4,000.0	3,447.0	3,036.1	2,868.6	35.2	17.7	148.43	237.7	924.9	2,403.9	2,365.1	61.905		
4,100.0	3,527.3	3,104.3	2,931.6	36.4	18.2	148.47	246.6	949.3	2,477.1	2,437.3	62.280		
4,200.0	3,607.5	3,172.5	2,994.7	37.5	18.7	148.51	255.6	973.8	2,550.2	2,509.5	62.636		
4,300.0	3,687.8	3,240.7	3,057.7	38.6	19.1	148.55	264.5	998.2	2,623.3	2,581.7	62.970		
4,400.0	3,768.1	3,308.9	3,120.7	39.8	19.6	148.58	273.4	1,022.6	2,696.5	2,653.9	63.285		
4,500.0	3,848.4	3,377.0	3,183.8	40.9	20.1	148.61	282.3	1,047.1	2,769.6	2,726.1	63.583		
4,600.0	3,928.6	3,445.2	3,246.8	42.1	20.6	148.64	291.2	1,071.5	2,842.8	2,798.2	63.864		
4,700.0	4,008.9	3,513.4	3,309.8	43.2	21.0	148.67	300.1	1,096.0	2,915.9	2,870.4	64.131		
4,800.0	4,089.2	3,581.6	3,372.9	44.3	21.5	148.70	309.0	1,120.4	2,989.0	2,942.6	64.383		
4,900.0	4,169.5	3,649.8	3,435.9	45.5	22.0	148.73	317.9	1,144.9	3,062.2	3,014.8	64.622		
5,000.0	4,249.8	3,718.0	3,499.0	46.6	22.5	148.75	326.8	1,169.3	3,135.3	3,087.0	64.849		
5,100.0	4,330.0	3,786.2	3,562.0	47.7	23.0	148.78	335.7	1,193.8	3,208.4	3,159.1	65.064		

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



Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Laramie 0993-20-11E - Slot A-1
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-11E	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
5,200.0	4,410.3	3,854.4	3,625.0	48.9	23.4	148.80	344.6	1,218.2	3,281.6	3,231.3	65.269		
5,300.0	4,490.6	3,922.6	3,688.1	50.0	23.9	148.82	353.5	1,242.6	3,354.7	3,303.5	65.464		
5,400.0	4,570.9	3,990.8	3,751.1	51.2	24.4	148.84	362.4	1,267.1	3,427.9	3,375.6	65.650		
5,500.0	4,651.1	4,059.0	3,814.1	52.3	24.9	148.86	371.3	1,291.5	3,501.0	3,447.8	65.827		
5,600.0	4,731.5	4,127.2	3,877.2	53.4	25.3	149.12	380.2	1,316.0	3,574.1	3,519.9	65.998		
5,700.0	4,813.4	4,197.2	3,941.9	54.5	25.8	150.39	389.3	1,341.1	3,645.5	3,590.3	66.097		
5,800.0	4,897.9	4,269.8	4,009.0	55.5	26.3	151.47	398.8	1,367.1	3,714.2	3,657.9	66.084		
5,900.0	4,984.5	4,344.9	4,078.4	56.4	26.9	152.40	408.6	1,394.0	3,780.0	3,722.7	66.003		
6,000.0	5,073.3	4,422.3	4,150.0	57.3	27.4	153.19	418.7	1,421.8	3,842.9	3,784.5	65.859		
6,100.0	5,164.0	4,501.9	4,223.6	58.0	28.0	153.85	429.1	1,450.3	3,902.7	3,843.3	65.659		
6,200.0	5,256.4	4,583.5	4,299.0	58.7	28.5	154.41	439.7	1,479.6	3,959.4	3,898.9	65.407		
6,300.0	5,350.4	4,667.0	4,376.1	59.3	29.1	154.86	450.6	1,509.5	4,012.9	3,951.2	65.110		
6,400.0	5,445.8	4,752.1	4,454.9	59.8	29.7	155.23	461.7	1,540.0	4,063.0	4,000.3	64.771		
6,500.0	5,542.4	4,838.8	4,535.0	60.3	30.3	155.51	473.1	1,571.1	4,109.7	4,045.9	64.397		
6,600.0	5,640.1	4,926.9	4,616.5	60.6	31.0	155.72	484.6	1,602.7	4,153.0	4,088.1	63.992		
6,700.0	5,738.6	5,016.3	4,699.0	60.9	31.6	155.85	496.2	1,634.7	4,192.7	4,126.7	63.563		
6,800.0	5,837.7	5,106.6	4,782.5	61.1	32.2	155.92	508.0	1,667.1	4,228.8	4,161.8	63.114		
6,900.0	5,937.4	5,197.8	4,866.9	61.3	32.9	155.93	519.9	1,699.8	4,261.4	4,193.4	62.654		
7,000.0	6,037.3	5,289.8	4,951.8	61.4	33.5	155.88	531.9	1,732.7	4,290.3	4,221.3	62.197		
7,100.0	6,137.3	5,382.1	5,037.2	61.4	34.2	120.30	544.0	1,765.8	4,316.1	4,246.4	61.916		
7,200.0	6,237.3	5,474.6	5,122.7	61.4	34.8	119.93	556.0	1,799.0	4,341.7	4,271.3	61.666		
7,300.0	6,337.3	6,721.5	6,337.3	61.4	39.0	117.69	632.0	2,007.6	4,342.4	4,262.2	54.147		
7,400.0	6,437.3	6,821.5	6,437.3	61.4	39.0	117.69	632.0	2,007.6	4,342.4	4,262.2	54.118		
7,500.0	6,537.3	6,921.5	6,537.3	61.4	39.0	117.69	632.0	2,007.6	4,342.4	4,262.1	54.088		
7,600.0	6,637.3	7,021.5	6,637.3	61.4	39.1	117.69	632.0	2,007.6	4,342.4	4,262.1	54.057		
7,700.0	6,737.3	7,121.5	6,737.3	61.5	39.1	117.69	632.0	2,007.6	4,342.4	4,262.1	54.027		
7,800.0	6,837.3	7,221.5	6,837.3	61.5	39.1	117.69	632.0	2,007.6	4,342.4	4,262.0	53.996		
7,900.0	6,937.3	7,321.5	6,937.3	61.5	39.1	117.69	632.0	2,007.6	4,342.4	4,262.0	53.966		
8,000.0	7,037.3	7,421.5	7,037.3	61.5	39.2	117.69	632.0	2,007.6	4,342.4	4,261.9	53.935		
8,100.0	7,137.3	7,521.5	7,137.3	61.5	39.2	117.69	632.0	2,007.6	4,342.4	4,261.9	53.903		
8,200.0	7,237.3	7,621.5	7,237.3	61.5	39.2	117.69	632.0	2,007.6	4,342.4	4,261.8	53.872		
8,300.0	7,337.3	7,721.5	7,337.3	61.6	39.3	117.69	632.0	2,007.6	4,342.4	4,261.8	53.841		
8,400.0	7,437.3	7,821.5	7,437.3	61.6	39.3	117.69	632.0	2,007.6	4,342.4	4,261.7	53.809		
8,500.0	7,537.3	7,921.5	7,537.3	61.6	39.3	117.69	632.0	2,007.6	4,342.4	4,261.7	53.777		
8,600.0	7,637.3	8,021.5	7,637.3	61.6	39.3	117.69	632.0	2,007.6	4,342.4	4,261.6	53.746		
8,700.0	7,737.3	8,121.5	7,737.3	61.6	39.4	117.69	632.0	2,007.6	4,342.4	4,261.6	53.713		
8,800.0	7,837.3	8,221.5	7,837.3	61.6	39.4	117.69	632.0	2,007.6	4,342.4	4,261.5	53.681		
8,821.7	7,859.0	8,243.3	7,859.0	61.6	39.4	117.69	632.0	2,007.6	4,342.4	4,261.5	53.676		



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Laramie 0993-20-11E - Slot A-1
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-11E	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	133.25	-82.3	87.5	120.1				
100.0	100.0	100.0	100.0	0.4	0.4	133.25	-82.3	87.5	120.1	119.3	151.658		
200.0	200.0	200.0	200.0	1.2	1.2	133.25	-82.3	87.5	120.1	117.7	48.622	CC, ES	
300.0	300.0	297.1	297.0	2.4	2.2	138.07	-81.9	89.5	122.9	119.0	31.447		
400.0	399.7	393.7	393.5	3.9	3.8	137.55	-80.5	95.5	131.4	125.5	22.226		
500.0	499.2	489.3	488.5	5.0	4.9	147.78	-78.3	105.3	145.9	138.4	19.494		
600.0	598.1	583.1	581.3	5.8	5.8	151.90	-75.3	118.7	167.2	158.3	18.786	SF	
700.0	696.3	674.5	671.1	6.6	6.6	153.38	-71.5	135.2	195.1	184.9	19.091		
800.0	793.7	762.8	757.2	7.3	7.3	153.64	-67.2	154.6	229.6	218.1	20.049		
900.0	890.0	847.6	839.1	8.0	7.9	153.32	-62.3	176.2	270.5	257.9	21.474		
1,000.0	985.0	928.5	916.3	8.7	8.5	152.73	-57.0	199.5	317.5	303.8	23.249		
1,100.0	1,078.6	1,005.2	988.7	9.3	9.0	152.00	-51.5	224.1	370.3	355.6	25.317		
1,200.0	1,170.7	1,080.9	1,059.4	10.0	9.2	151.18	-45.5	250.4	428.3	412.9	27.838		
1,300.0	1,260.9	1,159.5	1,132.6	10.6	9.5	150.46	-39.2	278.2	490.0	473.8	30.260		
1,400.0	1,349.2	1,235.6	1,203.6	11.2	9.7	149.88	-33.2	305.2	554.9	537.9	32.637		
1,500.0	1,435.3	1,309.1	1,272.0	11.7	9.9	149.38	-27.3	331.2	622.7	604.9	34.976		
1,600.0	1,519.2	1,379.8	1,337.9	12.3	10.1	148.91	-21.6	356.2	693.3	674.7	37.279		
1,700.0	1,600.6	1,447.6	1,401.1	12.8	10.4	148.47	-16.2	380.3	766.7	747.3	39.591		
1,800.0	1,680.9	1,514.1	1,463.1	13.1	10.6	148.90	-10.9	403.8	841.3	821.3	42.034		
1,900.0	1,761.2	1,580.6	1,525.0	13.5	10.8	149.26	-5.6	427.3	915.9	895.2	44.265		
2,000.0	1,841.4	1,647.0	1,587.0	14.0	11.1	149.57	-0.3	450.9	990.5	969.1	46.312		
2,100.0	1,921.7	1,713.5	1,648.9	14.6	11.3	149.83	5.0	474.4	1,065.2	1,043.1	48.197		
2,200.0	2,002.0	1,780.0	1,710.9	15.4	11.6	150.06	10.4	497.9	1,139.8	1,117.0	49.926		
2,300.0	2,082.3	1,846.5	1,772.8	16.3	11.9	150.27	15.7	521.5	1,214.5	1,190.9	51.516		
2,400.0	2,162.5	1,913.0	1,834.8	17.4	12.1	150.45	21.0	545.0	1,289.1	1,264.8	52.984		
2,500.0	2,242.8	1,979.4	1,896.7	18.4	12.4	150.60	26.3	568.5	1,363.8	1,338.7	54.334		
2,600.0	2,323.1	2,045.9	1,958.7	19.5	12.7	150.75	31.6	592.1	1,438.4	1,412.6	55.581		
2,700.0	2,403.4	2,112.4	2,020.6	20.6	12.9	150.88	36.9	615.6	1,513.1	1,486.4	56.735		
2,800.0	2,483.7	2,178.9	2,082.6	21.7	13.2	150.99	42.2	639.2	1,587.8	1,560.3	57.802		
2,900.0	2,563.9	2,245.4	2,144.5	22.8	13.5	151.10	47.6	662.7	1,662.5	1,634.2	58.790		
3,000.0	2,644.2	2,311.8	2,206.5	24.0	13.8	151.20	52.9	686.2	1,737.1	1,708.1	59.710		
3,100.0	2,724.5	2,378.3	2,268.4	25.1	14.1	151.28	58.2	709.8	1,811.8	1,781.9	60.563		
3,200.0	2,804.8	2,444.8	2,330.3	26.2	14.4	151.37	63.5	733.3	1,886.5	1,855.8	61.357		
3,300.0	2,885.0	2,511.3	2,392.3	27.3	14.7	151.44	68.8	756.8	1,961.2	1,929.6	62.099		
3,400.0	2,965.3	2,577.8	2,454.2	28.5	15.0	151.51	74.1	780.4	2,035.9	2,003.4	62.791		
3,500.0	3,045.6	2,644.3	2,516.2	29.6	15.3	151.58	79.4	803.9	2,110.6	2,077.3	63.437		
3,600.0	3,125.9	2,710.7	2,578.1	30.7	15.6	151.64	84.7	827.4	2,185.2	2,151.1	64.043		
3,700.0	3,206.1	2,777.2	2,640.1	31.8	15.9	151.69	90.1	851.0	2,259.9	2,225.0	64.610		
3,800.0	3,286.4	2,843.7	2,702.0	33.0	16.2	151.75	95.4	874.5	2,334.6	2,298.8	65.142		
3,900.0	3,366.7	2,910.2	2,764.0	34.1	16.6	151.80	100.7	898.1	2,409.3	2,372.6	65.644		
4,000.0	3,447.0	2,976.7	2,825.9	35.2	17.0	151.84	106.0	921.6	2,484.0	2,446.4	66.114		
4,100.0	3,527.3	3,043.1	2,887.9	36.4	17.4	151.89	111.3	945.1	2,558.7	2,520.2	66.556		
4,200.0	3,607.5	3,109.6	2,949.8	37.5	17.8	151.93	116.6	968.7	2,633.4	2,594.1	66.971		
4,300.0	3,687.8	3,176.1	3,011.8	38.6	18.3	151.97	121.9	992.2	2,708.1	2,667.9	67.366		
4,400.0	3,768.1	3,242.6	3,073.7	39.8	18.7	152.01	127.3	1,015.7	2,782.8	2,741.7	67.753		
4,500.0	3,848.4	3,309.1	3,135.7	40.9	19.2	152.04	132.6	1,039.3	2,857.5	2,815.5	68.100		
4,600.0	3,928.6	3,375.5	3,197.6	42.1	19.6	152.07	137.9	1,062.8	2,932.1	2,889.3	68.436		
4,700.0	4,008.9	3,442.0	3,259.6	43.2	20.0	152.11	143.2	1,086.3	3,006.8	2,963.1	68.752		
4,800.0	4,089.2	3,508.5	3,321.5	44.3	20.5	152.14	148.5	1,109.9	3,081.5	3,036.9	69.053		
4,900.0	4,169.5	3,575.0	3,383.5	45.5	20.9	152.17	153.8	1,133.4	3,156.2	3,110.7	69.339		
5,000.0	4,249.8	3,641.5	3,445.4	46.6	21.4	152.19	159.1	1,156.9	3,230.9	3,184.5	69.610		
5,100.0	4,330.0	3,707.9	3,507.3	47.7	21.8	152.22	164.4	1,180.5	3,305.6	3,258.3	69.868		

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



# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Laramie 0993-20-11E - Slot A-1
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-11E	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-OWSG (REV5) MWD HDGM Standard												Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Reference (usft)	Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore +N-S (usft)	Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning	
5,200.0	4,410.3	3,774.4	3,569.3	48.9	22.3	152.24	169.8	1,204.0	3,380.3	3,332.1	70.114		
5,300.0	4,490.6	3,840.9	3,631.2	50.0	22.7	152.27	175.1	1,227.6	3,455.0	3,405.9	70.349		
5,400.0	4,570.9	3,907.4	3,693.2	51.2	23.2	152.29	180.4	1,251.1	3,529.7	3,479.7	70.572		
5,500.0	4,651.1	3,973.9	3,755.1	52.3	23.6	152.31	185.7	1,274.6	3,604.4	3,553.5	70.785		
5,600.0	4,731.5	4,040.4	3,817.1	53.4	24.0	152.56	191.0	1,298.2	3,679.1	3,627.2	70.992		
5,700.0	4,813.4	4,108.8	3,880.9	54.5	24.5	153.75	196.5	1,322.4	3,752.0	3,699.2	71.115		
5,800.0	4,897.9	4,180.0	3,947.2	55.5	25.0	154.77	202.2	1,347.6	3,822.2	3,768.4	71.107		
5,900.0	4,984.5	4,253.8	4,016.0	56.4	25.5	155.64	208.1	1,373.7	3,889.5	3,834.7	71.021		
6,000.0	5,073.3	4,330.0	4,087.0	57.3	26.0	156.38	214.2	1,400.7	3,953.9	3,898.1	70.864		
6,100.0	5,164.0	4,408.7	4,160.3	58.0	26.5	157.00	220.5	1,428.6	4,015.1	3,958.3	70.641		
6,200.0	5,256.4	4,489.5	4,235.6	58.7	27.1	157.51	226.9	1,457.2	4,073.2	4,015.3	70.360		
6,300.0	5,350.4	4,572.3	4,312.8	59.3	27.6	157.94	233.5	1,486.5	4,127.9	4,069.0	70.025		
6,400.0	5,445.8	4,657.0	4,391.7	59.8	28.2	158.28	240.3	1,516.5	4,179.3	4,119.3	69.643		
6,500.0	5,542.4	4,743.5	4,472.3	60.3	28.8	158.55	247.2	1,547.1	4,227.2	4,166.1	69.220		
6,600.0	5,640.1	4,831.5	4,554.3	60.6	29.3	158.75	254.2	1,578.2	4,271.5	4,209.4	68.762		
6,700.0	5,738.6	4,920.9	4,637.6	60.9	29.9	158.89	261.4	1,609.9	4,312.3	4,249.1	68.275		
6,800.0	5,837.7	5,011.4	4,722.0	61.1	30.5	158.96	268.6	1,642.0	4,349.4	4,285.2	67.767		
6,900.0	5,937.4	5,103.1	4,807.4	61.3	31.2	158.98	276.0	1,674.4	4,382.8	4,317.6	67.246		
7,000.0	6,037.3	5,195.6	4,893.6	61.4	31.8	158.95	283.4	1,707.2	4,412.4	4,346.3	66.730		
7,100.0	6,137.3	5,288.7	4,980.3	61.4	32.4	123.40	290.8	1,740.1	4,438.8	4,372.0	66.426		
7,200.0	6,237.3	5,381.9	5,067.1	61.4	33.0	123.07	298.2	1,773.1	4,464.9	4,397.5	66.160		
7,300.0	6,337.3	5,476.2	5,154.4	61.4	33.6	122.74	305.6	1,805.9	4,491.0	4,423.6	65.894		
7,400.0	6,437.3	5,570.4	5,241.7	61.4	34.2	122.41	313.0	1,838.6	4,517.1	4,449.7	65.628		
7,500.0	6,537.3	5,664.6	5,329.0	61.4	34.8	122.08	320.4	1,871.2	4,543.2	4,476.8	65.362		
7,600.0	6,637.3	5,758.8	5,416.3	61.4	35.4	121.75	327.8	1,903.8	4,569.3	4,503.9	65.096		
7,700.0	6,737.3	5,853.0	5,503.6	61.5	36.0	121.42	335.2	1,936.4	4,595.4	4,530.0	64.830		
7,800.0	6,837.3	5,947.2	5,590.9	61.5	36.6	121.09	342.6	1,969.0	4,621.5	4,556.1	64.564		
7,900.0	6,937.3	6,041.4	5,678.2	61.5	37.2	120.76	350.0	2,001.6	4,647.6	4,582.2	64.298		
8,000.0	7,037.3	6,135.6	5,765.5	61.5	37.8	120.43	357.4	2,034.2	4,673.7	4,608.3	64.032		
8,100.0	7,137.3	6,229.8	5,852.8	61.5	38.4	120.10	364.8	2,066.8	4,699.8	4,634.4	63.766		
8,200.0	7,237.3	6,324.0	5,940.1	61.5	39.0	119.77	372.2	2,099.4	4,725.9	4,660.5	63.500		
8,300.0	7,337.3	6,418.2	6,027.4	61.6	39.6	119.44	379.6	2,132.0	4,752.0	4,686.6	63.234		
8,400.0	7,437.3	6,512.4	6,114.7	61.6	40.2	119.11	387.0	2,164.6	4,778.1	4,712.7	62.968		
8,500.0	7,537.3	6,606.6	6,202.0	61.6	40.8	118.78	394.4	2,197.2	4,804.2	4,738.8	62.702		
8,600.0	7,637.3	6,700.8	6,289.3	61.6	41.4	118.45	401.8	2,229.8	4,830.3	4,764.9	62.436		
8,700.0	7,737.3	6,794.0	6,376.6	61.6	42.0	118.12	409.2	2,262.4	4,856.4	4,791.0	62.170		
8,800.0	7,837.3	6,888.2	6,463.9	61.6	42.6	117.79	416.6	2,295.0	4,882.5	4,817.1	61.904		
8,821.7	7,859.0	6,909.0	6,485.0	61.6	42.6	117.79	416.6	2,295.0	4,882.5	4,817.1	61.904		

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

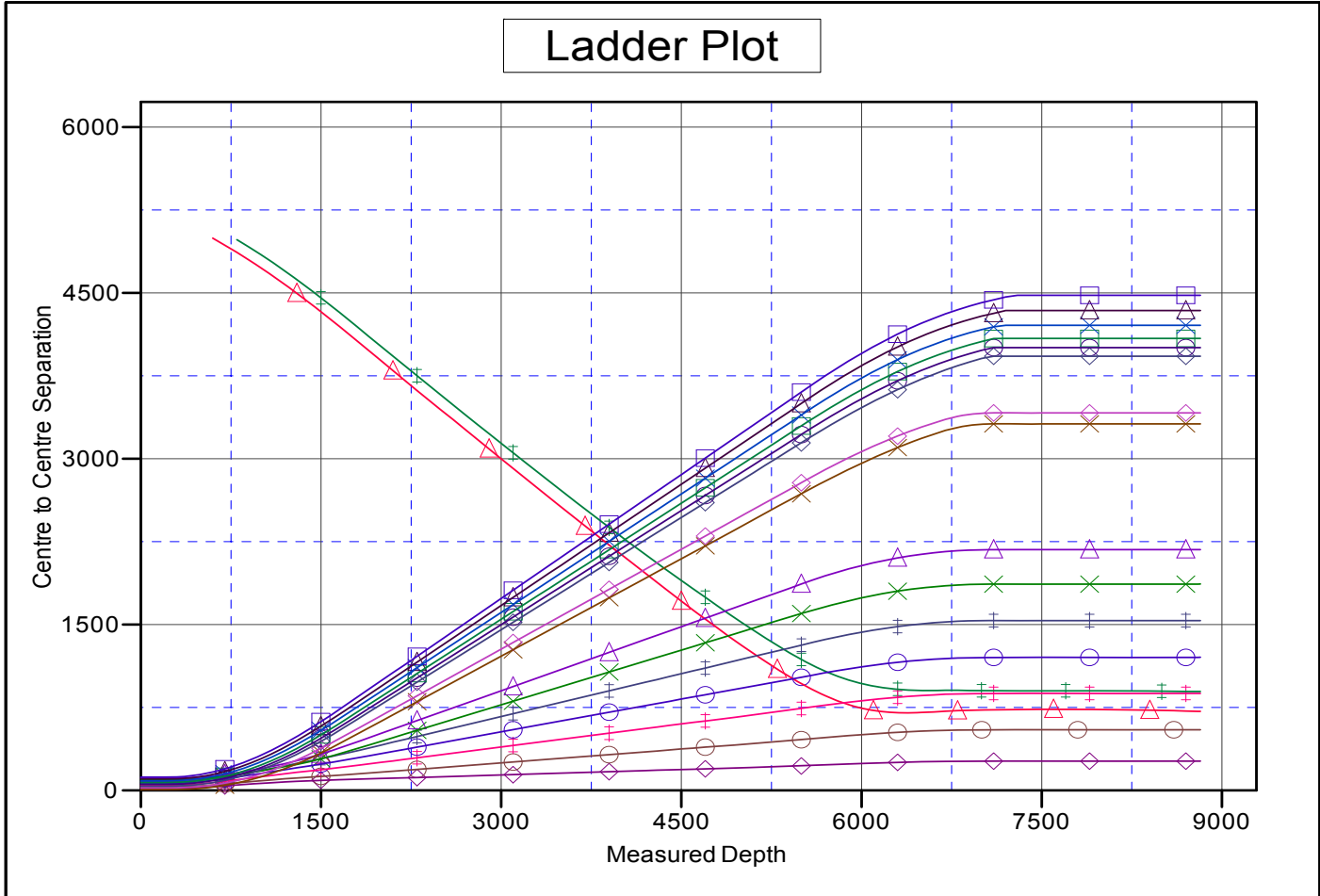


# Anticollision Report



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Laramie 0993-20-11E - Slot A-1
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-11E	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to RKB=30' @ 7493.0usft (TBD)      Coordinates are relative to: Laramie 29-01 0993-20-11E - Slot A-1  
 Offset Depths are relative to Offset Datum      Coordinate System is US State Plane 1983, Colorado Central Zone  
 Central Meridian is -105.500000      Grid Convergence at Surface is: -1.44°



### LEGEND

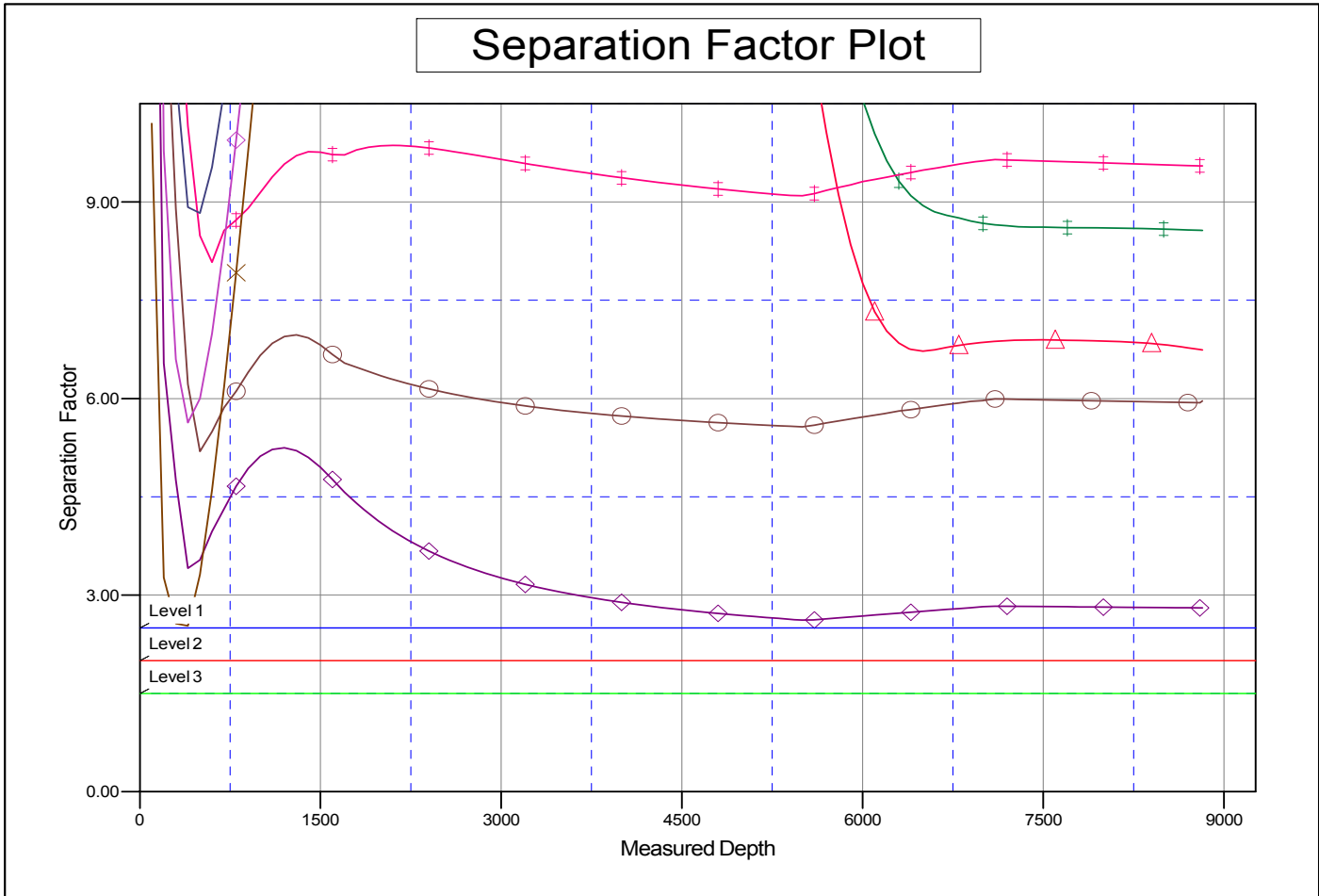
n BCU 20-10E, Wellbore #1, Wellbore #1 V0	◆ Laramie 0993-20-16E, OH, Design #1 V0	○ Laramie Fed 0993-21-14W, OH
n BCU 20-09E, Wellbore #1, Wellbore #1 V0	✕ Laramie 0993-20-17E, OH, Design #1 V0	◻ Laramie Fed 0993-21-15W, OH
0993-20-12E, OH, Design #1 V0	▲ Laramie 0993-20-18E, OH, Design #1 V0	✖ Laramie Fed 0993-21-16W, OH
0993-20-13E, OH, Design #1 V0	✎ Laramie Fed 0993-21-11W, OH, Design #1 V0	△ Laramie Fed 0993-21-17W, OH
0993-20-14E, OH, Design #1 V0	◇ Laramie Fed 0993-21-12W, OH, Design #1 V0	◼ Laramie Fed 0993-21-18W, OH
0993-20-15E, OH, Design #1 V0	◆ Laramie Fed 0993-21-13W, OH, Design #1 V0	



<b>Company:</b>	Laramie Energy, LLC	<b>Local Co-ordinate Reference:</b>	Well Laramie 0993-20-11E - Slot A-1
<b>Project:</b>	Mesa County, CO	<b>TVD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Reference Site:</b>	Laramie 0993-29-01	<b>MD Reference:</b>	RKB=30' @ 7493.0usft (TBD)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Laramie 0993-20-11E	<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 0993-20-11E - Slot A-1  
 Coordinate System is US State Plane 1983, Colorado Central Zone  
 Grid Convergence at Surface is: -1.44°



LEGEND

n BCU 20-10E, Wellbore #1, Wellbore #1 V0	— Laramie 0993-20-16E, OH, Design #1 V0	— Laramie Fed 0993-21-14W, OH
n BCU 20-09E, Wellbore #1, Wellbore #1 V0	— Laramie 0993-20-17E, OH, Design #1 V0	— Laramie Fed 0993-21-15W, OH
9-01 0993-20-12E, OH, Design #1 V0	— Laramie 0993-20-18E, OH, Design #1 V0	— Laramie Fed 0993-21-16W, OH
9-01 0993-20-13E, OH, Design #1 V0	— Laramie Fed 0993-21-11W, OH, Design #1 V0	— Laramie Fed 0993-21-17W, OH
9-01 0993-20-14E, OH, Design #1 V0	— Laramie Fed 0993-21-12W, OH, Design #1 V0	— Laramie Fed 0993-21-18W, OH
9-01 0993-20-15E, OH, Design #1 V0	— Laramie Fed 0993-21-13W, OH, Design #1 V0	