



## **Bill Barrett Corp.**

Weld County, CO NAD 83  
Will Trust 6-62-10\_11 SWSW Pad  
Dutch Lake 9-11H

OH  
OH

## **Anticollision Report**

23 January, 2017



<b>Company:</b>	Bill Barrett Corp.	<b>Local Co-ordinate Reference:</b>	Well Dutch Lake 9-11H
<b>Project:</b>	Weld County, CO NAD 83	<b>TVD Reference:</b>	GL 4719' @ 4719.00ft
<b>Reference Site:</b>	Will Trust 6-62-10_11 SWSW Pad	<b>MD Reference:</b>	GL 4719' @ 4719.00ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Dutch Lake 9-11H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	Casper District
<b>Reference Design:</b>	OH	<b>Offset TVD Reference:</b>	Reference Datum

Reference	OH		
Filter type:	GLOBAL FILTER APPLIED: All wellpaths within 200'+ 100/1000 of reference		
Interpolation Method:	MD Interval 100.00ft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 1,268.20 ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Program		Date	1/23/2017		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
831.00	10,682.00	Survey #1 - MWD Survey (OH)	MWD	MWD - Standard	

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Ruh 6-62-11 14 NWNE Pad						
Ruh 6-62-11-0560A2 - OH - OH	6,100.00	11,262.05	1,153.44	1,051.13	11.274	SF
Ruh 6-62-11-0560A2 - OH - OH	6,900.00	10,567.37	1,108.25	1,016.09	12.026	ES
Ruh 6-62-11-0560A2 - OH - OH	6,964.46	10,507.38	1,107.82	1,016.24	12.097	CC
Will Trust 6-62-10_11 CW2 Pad						
Will Trust 6-62-10-1614B2 - OH - Plan 1	10,280.16	13,672.18	34.94	-49.54	0.414	Level 1, CC, ES, SF
Will Trust 6-62-10-1719BN2 - OH - Plan 1	9,808.27	13,603.45	33.52	-46.27	0.420	Level 1, CC, ES, SF
Will Trust 6-62-10-1719BS2 - OH - Plan 1	9,334.99	13,594.17	32.65	-43.45	0.429	Level 1, CC, ES, SF
Will Trust 6-62-10-3230B2 - OH - Plan 1	8,862.89	13,602.08	30.30	-42.65	0.415	Level 1, CC, ES, SF
Will Trust 6-62-10-3335B2 - OH - Plan 1	8,398.24	13,675.82	16.58	-54.12	0.235	Level 1, CC, ES, SF
Will Trust 6-62-10_11 SWSW Pad						
Will Trust 6-62-10-4846BN2 - OH - Plan 1	7,924.93	13,715.95	22.02	-46.97	0.319	Level 1, CC, ES, SF
Will Trust 6-62-10-4846BS2 - OH - Plan 1	7,453.93	13,644.33	21.88	-41.28	0.346	Level 1, CC, ES, SF
Will Trust 6-62-10-4951B2 - OH - Plan 1	6,981.09	13,620.91	20.85	-38.49	0.351	Level 1, CC, ES, SF
Will Trust 6-62-10-6462BN2 - OH - Plan 1	6,500.00	13,630.76	37.06	-71.75	0.341	Level 1, ES
Will Trust 6-62-10-6462BN2 - OH - Plan 1	6,515.45	13,630.49	33.49	-71.36	0.319	Level 1, CC, SF
Will Trust 6-62-10-6462BS2B - OH - Plan 1	6,100.00	13,712.69	342.30	166.54	1.947	ES, SF
Will Trust 6-62-10-6462BS2B - OH - Plan 1	6,171.83	13,710.25	328.54	174.72	2.136	CC
Will Trust 6-62-3_2 SE4 Pad						
Will Trust 6-62-03-6457A2B - OH - Plan 1	10,682.00	13,579.14	590.25	495.26	6.214	CC, ES, SF
Will Trust 6-62-03-6457B2 - OH - Plan 1	10,682.00	13,637.95	1,082.00	989.01	11.636	CC, ES, SF

Offset Design      Ruh 6-62-11 14 NWNE Pad - Ruh 6-62-11-0560A2 - OH - OH												Offset Site Error:	0.00 ft
Survey Program:      800-SDI MWD, 6788-SDI MWD												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth	Vertical	Measured Depth	Vertical	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning
Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)		
5,800.00	5,772.86	11,379.24	6,363.75	13.86	88.24	92.68	-442.74	1,233.30	1,244.70	1,138.82	105.89	11.755	
5,900.00	5,870.68	11,358.81	6,363.67	13.84	87.87	105.14	-422.32	1,233.54	1,202.85	1,097.84	105.01	11.454	
6,000.00	5,961.75	11,317.03	6,363.38	13.63	87.12	106.56	-380.53	1,234.01	1,174.34	1,070.95	103.40	11.358	
6,100.00	6,045.87	11,262.05	6,362.75	13.35	86.15	103.37	-325.56	1,234.62	1,153.44	1,051.13	102.31	11.274	SF
6,200.00	6,119.19	11,193.10	6,361.55	13.06	84.93	99.35	-256.62	1,235.36	1,138.01	1,037.10	100.91	11.277	
6,300.00	6,182.39	11,104.00	6,360.39	12.80	83.40	96.40	-167.54	1,235.45	1,124.94	1,025.44	99.51	11.305	

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

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<b>Reference Site:</b>	Will Trust 6-62-10_11 SWSW Pad	<b>MD Reference:</b>	GL 4719' @ 4719.00ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Dutch Lake 9-11H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	Casper District
<b>Reference Design:</b>	OH	<b>Offset TVD Reference:</b>	Reference Datum

Offset Design													Ruh 6-62-11 14 NWNE Pad - Ruh 6-62-11-0560A2 - OH - OH		Offset Site Error:	0.00 ft
Survey Program: 800-SDI MWD, 6788-SDI MWD															Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor				
6,400.00	6,246.08	11,035.62	6,360.23	12.64	82.22	94.80	-99.16	1,235.27	1,115.98	1,017.70	98.29	11.354				
6,500.00	6,300.44	10,959.66	6,360.47	12.59	80.90	93.43	-23.21	1,235.82	1,113.19	1,016.32	96.87	11.491				
6,506.74	6,303.47	10,954.01	6,360.49	12.61	80.80	93.28	-17.55	1,235.87	1,113.19	1,016.40	96.79	11.501				
6,600.00	6,337.88	10,871.33	6,360.67	12.88	79.34	91.40	65.12	1,236.89	1,114.25	1,018.69	95.56	11.660				
6,700.00	6,357.84	10,770.92	6,359.84	13.40	77.57	89.96	165.51	1,238.29	1,113.24	1,018.84	94.40	11.793				
6,800.00	6,361.41	10,660.02	6,359.19	14.13	75.65	89.89	276.41	1,239.06	1,110.58	1,017.51	93.07	11.933				
6,900.00	6,359.15	10,567.37	6,359.93	14.97	74.03	90.06	369.06	1,239.39	1,108.25	1,016.09	92.15	12.026 ES				
6,964.46	6,358.29	10,507.38	6,360.03	15.55	72.99	90.09	429.04	1,240.01	1,107.82	1,016.24	91.58	12.097 CC				
7,000.00	6,358.24	10,473.95	6,360.03	15.87	72.42	90.09	462.47	1,240.45	1,107.89	1,016.63	91.26	12.140				
7,100.00	6,359.39	10,371.69	6,360.02	16.91	70.67	90.06	564.72	1,241.84	1,109.37	1,019.03	90.34	12.280				
7,200.00	6,361.15	10,279.00	6,360.47	18.12	69.10	89.97	657.40	1,242.95	1,112.26	1,022.47	89.78	12.389				
7,300.00	6,360.64	10,206.04	6,360.80	19.45	67.83	90.01	730.33	1,244.95	1,118.15	1,028.51	89.64	12.474				
7,400.00	6,359.98	10,094.30	6,360.29	20.88	65.89	89.92	841.97	1,249.72	1,126.70	1,037.65	89.04	12.653				
7,500.00	6,358.60	10,020.85	6,359.66	22.33	64.66	90.11	915.35	1,252.84	1,135.44	1,046.33	89.12	12.741				
7,600.00	6,359.37	9,925.94	6,359.48	23.83	63.05	89.97	1,010.08	1,258.58	1,147.14	1,058.28	88.86	12.909				
7,700.00	6,359.31	9,827.64	6,360.61	25.34	61.33	90.13	1,108.20	1,264.33	1,158.99	1,070.32	88.66	13.072				
7,800.00	6,361.15	9,703.86	6,360.71	26.80	59.19	90.09	1,231.82	1,270.64	1,168.94	1,080.77	88.17	13.258				
7,900.00	6,364.93	9,584.33	6,360.75	28.30	57.18	89.93	1,351.29	1,274.24	1,175.04	1,087.35	87.69	13.399				
8,000.00	6,369.63	9,468.74	6,363.46	29.90	55.18	89.85	1,466.83	1,276.01	1,180.48	1,093.55	86.93	13.579				
8,100.00	6,372.09	9,365.18	6,365.53	31.58	53.40	89.70	1,570.37	1,276.58	1,186.49	1,099.79	86.70	13.685				
8,200.00	6,370.62	9,275.94	6,366.86	33.28	51.91	89.70	1,659.59	1,277.36	1,192.96	1,106.10	86.87	13.733				
8,300.00	6,367.19	9,172.00	6,367.96	34.96	50.16	89.95	1,763.51	1,278.96	1,199.11	1,112.25	86.87	13.804				
8,400.00	6,367.37	9,064.76	6,369.79	36.62	48.29	90.16	1,870.74	1,279.71	1,203.87	1,117.26	86.61	13.899				
8,500.00	6,368.18	8,947.66	6,369.91	38.30	46.25	90.08	1,987.83	1,279.45	1,205.60	1,119.26	86.34	13.964				
8,600.00	6,370.74	8,827.62	6,368.16	39.99	44.23	89.84	2,107.85	1,277.60	1,205.76	1,119.89	85.87	14.041				
8,700.00	6,375.32	8,713.71	6,366.57	41.66	42.34	89.45	2,221.67	1,273.38	1,201.46	1,115.79	85.67	14.025				
8,800.00	6,378.72	8,618.60	6,365.22	43.36	40.76	89.27	2,316.71	1,270.01	1,196.58	1,110.88	85.69	13.963				
8,900.00	6,380.67	8,518.76	6,363.26	45.08	39.11	89.10	2,416.47	1,266.63	1,189.69	1,103.95	85.74	13.876				
9,000.00	6,381.20	8,429.63	6,361.27	46.81	37.67	89.01	2,505.53	1,263.80	1,181.49	1,095.60	85.89	13.756				
9,100.00	6,381.66	8,355.13	6,359.50	48.53	36.48	88.92	2,580.00	1,262.53	1,176.49	1,090.17	86.31	13.630				
9,200.00	6,381.31	8,277.18	6,359.12	50.26	35.22	88.91	2,657.94	1,263.35	1,173.00	1,086.34	86.65	13.537				
9,273.98	6,381.65	8,189.25	6,358.78	51.55	33.83	88.88	2,745.87	1,263.95	1,172.24	1,085.97	86.27	13.588				
9,300.00	6,382.32	8,167.05	6,358.74	52.00	33.48	88.85	2,768.06	1,264.06	1,172.55	1,086.28	86.28	13.591				
9,400.00	6,382.75	8,075.67	6,359.44	53.75	32.06	88.92	2,859.44	1,265.18	1,176.48	1,090.45	86.03	13.675				
9,500.00	6,384.47	7,970.84	6,359.54	55.52	30.48	88.81	2,964.26	1,266.43	1,183.55	1,097.28	86.26	13.720				
9,600.00	6,385.38	7,872.20	6,360.61	57.30	29.02	88.90	3,062.89	1,267.28	1,188.24	1,101.94	86.30	13.769				
9,700.00	6,388.49	7,767.43	6,362.40	59.08	27.49	88.82	3,167.64	1,268.46	1,194.81	1,108.20	86.61	13.795				
9,800.00	6,390.32	7,655.02	6,363.71	60.85	25.90	88.73	3,280.04	1,268.55	1,197.53	1,110.74	86.79	13.798				
9,900.00	6,390.82	7,532.66	6,365.48	62.63	24.22	88.79	3,402.37	1,266.88	1,198.36	1,111.73	86.62	13.834				
10,000.00	6,392.12	7,443.17	6,366.03	64.39	23.05	88.76	3,491.85	1,265.27	1,199.73	1,112.78	86.95	13.799				
10,100.00	6,391.01	7,343.51	6,366.13	66.16	21.82	88.75	3,591.50	1,263.78	1,203.06	1,115.99	87.07	13.817				
10,200.00	6,390.72	7,260.00	6,366.15	67.91	20.85	88.89	3,675.00	1,263.34	1,208.08	1,120.26	87.82	13.757				
10,300.00	6,392.15	7,156.15	6,365.62	69.69	19.75	88.77	3,778.84	1,263.35	1,212.80	1,124.44	88.36	13.726				
10,400.00	6,392.75	7,045.53	6,364.69	71.51	18.71	88.68	3,889.46	1,262.19	1,215.72	1,126.70	89.02	13.657				
10,500.00	6,392.86	6,956.14	6,364.04	73.31	17.96	88.64	3,978.85	1,261.50	1,217.26	1,127.21	90.05	13.518				
10,600.00	6,392.66	6,852.46	6,362.96	75.09	17.22	88.60	4,082.51	1,261.28	1,217.91	1,126.98	90.93	13.393				
10,682.00	6,393.10	6,755.19	6,361.26	76.56	16.60	88.51	4,179.75	1,259.61	1,218.50	1,126.91	91.59	13.304				

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<b>Reference Site:</b>	Will Trust 6-62-10_11 SWSW Pad	<b>MD Reference:</b>	GL 4719' @ 4719.00ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Dutch Lake 9-11H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	Casper District
<b>Reference Design:</b>	OH	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design</b> Will Trust 6-62-10_11 CW2 Pad - Will Trust 6-62-10-1614B2 - OH - Plan 1												<b>Offset Site Error:</b>	0.00 ft
Survey Program: 0-MWD												<b>Offset Well Error:</b>	0.00 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
9,100.00	6,381.66	13,708.06	6,356.72	48.53	201.57	-63.25	3,755.11	87.31	1,179.57	1,100.37	79.20	14.894	
9,200.00	6,381.31	13,712.39	6,356.68	50.26	201.69	-46.96	3,755.11	91.63	1,079.69	997.73	81.96	13.173	
9,300.00	6,382.32	13,713.35	6,356.67	52.00	201.72	13.23	3,755.11	92.59	979.76	901.00	78.75	12.441	
9,400.00	6,382.75	13,710.51	6,356.70	53.75	201.64	50.59	3,755.11	89.75	879.86	797.07	82.79	10.628	
9,500.00	6,384.47	13,704.54	6,356.75	55.52	201.47	43.64	3,755.11	83.79	780.16	695.80	84.37	9.247	
9,600.00	6,385.38	13,700.60	6,356.78	57.30	201.36	40.64	3,755.12	79.84	680.36	594.30	86.06	7.906	
9,700.00	6,388.49	13,695.07	6,356.83	59.08	201.21	23.49	3,755.12	74.31	580.83	496.21	84.62	6.864	
9,800.00	6,390.32	13,692.31	6,356.85	60.85	201.13	16.87	3,755.13	71.55	481.19	397.66	83.53	5.761	
9,900.00	6,390.82	13,689.97	6,356.87	62.63	201.07	13.90	3,755.13	69.21	381.57	297.72	83.84	4.551	
10,000.00	6,392.12	13,686.70	6,356.90	64.39	200.97	15.99	3,755.13	65.95	282.32	197.30	85.03	3.320	
10,100.00	6,391.01	13,681.75	6,356.95	66.16	200.84	20.29	3,755.14	61.00	183.44	96.35	87.09	2.106	
10,200.00	6,390.72	13,676.06	6,356.99	67.91	200.68	6.12	3,755.14	55.31	87.21	2.59	84.62	1.031	Level 2
10,280.16	6,391.97	13,672.18	6,357.03	69.33	200.57	-0.46	3,755.15	51.43	34.94	-49.54	84.48	0.414	Level 1, CC, ES, SF
10,300.00	6,392.15	13,671.27	6,357.04	69.69	200.54	-1.92	3,755.15	50.52	40.14	-44.48	84.61	0.474	Level 1
10,400.00	6,392.75	13,667.20	6,357.07	71.51	200.43	-7.29	3,755.15	46.45	124.58	38.75	85.84	1.451	Level 3
10,500.00	6,392.86	13,664.80	6,357.09	73.31	200.36	-5.41	3,755.16	44.05	222.23	135.97	86.26	2.576	
10,600.00	6,392.66	13,663.87	6,357.10	75.09	200.33	-7.42	3,755.16	43.11	321.30	233.95	87.35	3.678	
10,682.00	6,393.10	13,661.77	6,357.12	76.56	200.28	-19.03	3,755.16	41.02	402.91	311.28	91.63	4.397	

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<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Dutch Lake 9-11H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	Casper District
<b>Reference Design:</b>	OH	<b>Offset TVD Reference:</b>	Reference Datum

Offset Design Will Trust 6-62-10_11 CW2 Pad - Will Trust 6-62-10-1719BN2 - OH - Plan 1													Offset Site Error: 0.00 ft	
Survey Program: 0-MWD													Offset Well Error: 0.00 ft	
Reference		Offset		Semi Major Axis			Distance							
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)			
8,600.00	6,370.74	13,606.05	6,356.78	39.99	200.90	13.25	3,283.41	73.48	1,207.22	1,135.05	72.17	16.727		
8,700.00	6,375.32	13,606.47	6,356.78	41.66	200.91	-11.45	3,283.41	73.90	1,107.41	1,034.18	73.23	15.122		
8,800.00	6,378.72	13,607.70	6,356.77	43.36	200.95	-23.60	3,283.40	75.13	1,007.56	932.82	74.74	13.480		
8,900.00	6,380.67	13,611.14	6,356.74	45.08	201.04	-50.47	3,283.40	78.56	907.72	832.00	75.72	11.988		
9,000.00	6,381.20	13,616.13	6,356.70	46.81	201.18	-49.95	3,283.39	83.55	807.90	731.16	76.74	10.527		
9,100.00	6,381.66	13,619.41	6,356.67	48.53	201.27	-49.33	3,283.39	86.84	708.03	630.08	77.95	9.083		
9,200.00	6,381.31	13,623.74	6,356.64	50.26	201.40	-33.15	3,283.39	91.17	608.19	528.82	79.37	7.663		
9,300.00	6,382.32	13,624.69	6,356.63	52.00	201.42	7.30	3,283.39	92.12	508.35	431.69	76.66	6.631		
9,400.00	6,382.75	13,621.85	6,356.65	53.75	201.34	34.48	3,283.39	89.27	408.59	327.00	81.58	5.008		
9,500.00	6,384.47	13,615.88	6,356.70	55.52	201.17	22.40	3,283.40	83.31	309.20	228.46	80.74	3.830		
9,600.00	6,385.38	13,611.93	6,356.74	57.30	201.06	19.14	3,283.40	79.36	210.00	128.55	81.45	2.578		
9,700.00	6,388.49	13,606.39	6,356.78	59.08	200.91	6.22	3,283.41	73.82	112.79	32.88	79.91	1.411	Level 3	
9,800.00	6,390.32	13,603.63	6,356.80	60.85	200.83	-0.17	3,283.41	71.06	34.53	-45.20	79.72	0.433	Level 1	
9,808.27	6,390.32	13,603.45	6,356.81	61.00	200.83	-0.47	3,283.41	70.88	33.52	-46.27	79.79	0.420	Level 1, CC, ES, SF	
9,900.00	6,390.82	13,601.29	6,356.82	62.63	200.77	-4.97	3,283.41	68.71	97.76	16.91	80.86	1.209	Level 2	
10,000.00	6,392.12	13,598.01	6,356.85	64.39	200.67	-12.22	3,283.42	65.44	194.82	112.28	82.54	2.360		
10,100.00	6,391.01	13,593.06	6,356.89	66.16	200.53	-24.01	3,283.42	60.49	293.46	206.64	86.81	3.380		
10,200.00	6,390.72	13,587.37	6,356.94	67.91	200.38	-37.86	3,283.43	54.80	392.75	301.81	90.94	4.319		
10,300.00	6,392.15	13,582.57	6,356.98	69.69	200.24	-35.82	3,283.43	50.00	492.42	400.73	91.69	5.370		
10,400.00	6,392.75	13,578.50	6,357.01	71.51	200.13	-32.11	3,283.44	45.93	592.16	500.25	91.91	6.443		
10,500.00	6,392.86	13,576.09	6,357.03	73.31	200.06	-15.48	3,283.44	43.52	691.98	604.56	87.42	7.916		
10,600.00	6,392.66	13,575.15	6,357.04	75.09	200.03	-17.31	3,283.44	42.58	791.85	702.94	88.91	8.907		
10,682.00	6,393.10	13,573.06	6,357.06	76.56	199.97	-39.12	3,283.44	40.49	873.76	776.57	97.20	8.990		

<b>Company:</b>	Bill Barrett Corp.	<b>Local Co-ordinate Reference:</b>	Well Dutch Lake 9-11H
<b>Project:</b>	Weld County, CO NAD 83	<b>TVD Reference:</b>	GL 4719' @ 4719.00ft
<b>Reference Site:</b>	Will Trust 6-62-10_11 SWSW Pad	<b>MD Reference:</b>	GL 4719' @ 4719.00ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Dutch Lake 9-11H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	Casper District
<b>Reference Design:</b>	OH	<b>Offset TVD Reference:</b>	Reference Datum

Offset Design Will Trust 6-62-10_11 CW2 Pad - Will Trust 6-62-10-1719BS2 - OH - Plan 1													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,100.00	6,372.09	13,594.62	6,349.89	31.58	201.30	67.73	2,810.93	91.42	1,234.35	1,178.06	56.30	21.926		
8,200.00	6,370.62	13,588.91	6,349.94	33.28	201.14	103.52	2,810.94	85.71	1,134.52	1,078.90	55.63	20.395		
8,300.00	6,367.19	13,584.22	6,349.98	34.96	201.01	105.55	2,810.94	81.02	1,034.65	977.85	56.80	18.215		
8,400.00	6,367.37	13,580.03	6,350.02	36.62	200.89	44.72	2,810.95	76.83	934.77	866.95	67.82	13.783		
8,500.00	6,368.18	13,577.96	6,350.04	38.30	200.84	23.46	2,810.95	74.76	834.83	764.10	70.74	11.802		
8,600.00	6,370.74	13,576.16	6,350.05	39.99	200.79	10.01	2,810.95	72.96	734.98	663.45	71.53	10.275		
8,700.00	6,375.32	13,576.57	6,350.05	41.66	200.80	-8.43	2,810.95	73.37	635.30	563.00	72.30	8.786		
8,800.00	6,378.72	13,577.79	6,350.04	43.36	200.83	-14.83	2,810.95	74.59	535.64	462.47	73.17	7.320		
8,900.00	6,380.67	13,581.21	6,350.01	45.08	200.93	-29.43	2,810.95	78.01	436.03	360.73	75.30	5.790		
9,000.00	6,381.20	13,586.19	6,349.96	46.81	201.07	-23.28	2,810.94	82.99	336.53	260.89	75.64	4.449		
9,100.00	6,381.66	13,589.47	6,349.94	48.53	201.16	-16.87	2,810.94	86.27	237.26	161.57	75.69	3.135		
9,200.00	6,381.31	13,593.78	6,349.90	50.26	201.28	-7.51	2,810.93	90.58	138.83	63.40	75.43	1.841		
9,300.00	6,382.32	13,594.73	6,349.89	52.00	201.31	-0.03	2,810.93	91.53	47.89	-27.93	75.82	0.632 Level 1		
9,334.99	6,382.54	13,594.17	6,349.89	52.61	201.29	-0.49	2,810.93	90.97	32.65	-43.45	76.09	0.429 Level 1, CC, ES, SF		
9,400.00	6,382.75	13,591.87	6,349.91	53.75	201.23	-6.91	2,810.93	88.67	72.56	-4.32	76.88	0.944 Level 1		
9,500.00	6,384.47	13,585.89	6,349.97	55.52	201.06	-11.86	2,810.94	82.69	168.09	89.89	78.20	2.150		
9,600.00	6,385.38	13,581.93	6,350.00	57.30	200.95	-28.14	2,810.94	78.73	266.77	184.68	82.09	3.250		
9,700.00	6,388.49	13,576.39	6,350.05	59.08	200.79	-27.54	2,810.95	73.19	366.24	283.17	83.07	4.409		
9,800.00	6,390.32	13,573.61	6,350.08	60.85	200.71	-14.57	2,810.95	70.41	465.89	384.82	81.07	5.747		
9,900.00	6,390.82	13,571.25	6,350.10	62.63	200.65	-27.92	2,810.96	68.05	565.59	480.43	85.16	6.641		
10,000.00	6,392.12	13,567.97	6,350.12	64.39	200.56	-32.30	2,810.96	64.77	665.38	578.14	87.24	7.627		
10,100.00	6,391.01	13,563.01	6,350.17	66.16	200.42	-38.72	2,810.97	59.81	765.01	674.30	90.72	8.433		
10,200.00	6,390.72	13,557.31	6,350.22	67.91	200.26	-62.45	2,810.97	54.11	864.69	773.87	90.82	9.521		
10,300.00	6,392.15	13,552.50	6,350.26	69.69	200.12	-52.50	2,810.98	49.30	964.53	871.25	93.28	10.341		
10,400.00	6,392.75	13,548.42	6,350.30	71.51	200.01	-44.39	2,810.98	45.22	1,064.38	970.21	94.17	11.302		
10,500.00	6,392.86	13,546.00	6,350.32	73.31	199.94	-21.29	2,810.99	42.80	1,164.28	1,075.28	89.01	13.081		
10,600.00	6,392.66	13,545.05	6,350.33	75.09	199.91	-22.82	2,810.99	41.85	1,264.21	1,173.70	90.51	13.968		

<b>Company:</b>	Bill Barrett Corp.	<b>Local Co-ordinate Reference:</b>	Well Dutch Lake 9-11H
<b>Project:</b>	Weld County, CO NAD 83	<b>TVD Reference:</b>	GL 4719' @ 4719.00ft
<b>Reference Site:</b>	Will Trust 6-62-10_11 SWSW Pad	<b>MD Reference:</b>	GL 4719' @ 4719.00ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Dutch Lake 9-11H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	Casper District
<b>Reference Design:</b>	OH	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design</b> Will Trust 6-62-10_11 CW2 Pad - Will Trust 6-62-10-3230B2 - OH - Plan 1												<b>Offset Site Error:</b>	0.00 ft
Survey Program: 0-MWD												<b>Offset Well Error:</b>	0.00 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
7,600.00	6,359.37	13,640.96	6,349.45	23.83	201.94	87.68	2,339.41	114.68	1,261.85	1,214.36	47.50	26.567	
7,700.00	6,359.31	13,634.84	6,349.51	25.34	201.77	72.73	2,339.41	108.57	1,162.05	1,110.36	51.69	22.481	
7,800.00	6,361.15	13,629.90	6,349.55	26.80	201.63	45.45	2,339.42	103.62	1,062.21	1,000.52	61.69	17.219	
7,900.00	6,364.93	13,626.66	6,349.58	28.30	201.54	22.29	2,339.42	100.38	962.39	895.28	67.11	14.341	
8,000.00	6,369.63	13,622.61	6,349.61	29.90	201.43	38.79	2,339.43	96.33	862.70	795.80	66.90	12.895	
8,100.00	6,372.09	13,617.01	6,349.66	31.58	201.27	58.59	2,339.43	90.74	762.99	701.19	61.79	12.347	
8,200.00	6,370.62	13,611.32	6,349.70	33.28	201.11	89.92	2,339.44	85.05	663.17	607.13	56.03	11.835	
8,300.00	6,367.19	13,606.64	6,349.74	34.96	200.98	86.10	2,339.44	80.37	563.28	507.38	55.90	10.077	
8,400.00	6,367.37	13,602.47	6,349.78	36.62	200.86	32.66	2,339.45	76.20	463.44	392.94	70.50	6.574	
8,500.00	6,368.18	13,600.42	6,349.80	38.30	200.80	12.23	2,339.45	74.14	363.60	292.86	70.75	5.140	
8,600.00	6,370.74	13,598.63	6,349.81	39.99	200.75	5.43	2,339.45	72.36	264.02	192.43	71.59	3.688	
8,700.00	6,375.32	13,599.05	6,349.81	41.66	200.76	-3.87	2,339.45	72.78	165.28	93.03	72.25	2.288	
8,800.00	6,378.72	13,600.29	6,349.80	43.36	200.80	-2.92	2,339.45	74.02	69.66	-2.94	72.60	0.959 Level 1	
8,862.89	6,380.07	13,602.08	6,349.78	44.44	200.85	-0.52	2,339.45	75.81	30.30	-42.65	72.95	0.415 Level 1, CC, ES, SF	
8,900.00	6,380.67	13,603.73	6,349.77	45.08	200.90	2.66	2,339.45	77.45	47.86	-25.38	73.24	0.653 Level 1	
9,000.00	6,381.20	13,608.72	6,349.73	46.81	201.04	9.92	2,339.44	82.45	140.01	65.50	74.51	1.879	
9,100.00	6,381.66	13,612.02	6,349.70	48.53	201.13	15.73	2,339.44	85.74	238.52	162.49	76.03	3.137	
9,200.00	6,381.31	13,616.35	6,349.66	50.26	201.25	17.72	2,339.43	90.07	337.75	260.60	77.15	4.378	
9,300.00	6,382.32	13,617.30	6,349.65	52.00	201.28	-6.53	2,339.43	91.03	437.47	361.03	76.45	5.723	
9,400.00	6,382.75	13,614.46	6,349.68	53.75	201.20	-50.14	2,339.44	88.19	537.22	455.24	81.98	6.553	
9,500.00	6,384.47	13,608.50	6,349.73	55.52	201.03	-40.65	2,339.44	82.23	636.95	553.75	83.21	7.655	
9,600.00	6,385.38	13,604.55	6,349.76	57.30	200.92	-67.26	2,339.45	78.28	736.78	653.99	82.78	8.900	
9,700.00	6,388.49	13,599.02	6,349.81	59.08	200.76	-68.31	2,339.45	72.75	836.61	753.90	82.71	10.115	
9,800.00	6,390.32	13,596.26	6,349.83	60.85	200.69	-26.87	2,339.46	69.99	936.53	852.05	84.48	11.086	
9,900.00	6,390.82	13,593.92	6,349.85	62.63	200.62	-53.27	2,339.46	67.65	1,036.43	948.37	88.06	11.769	
10,000.00	6,392.12	13,590.66	6,349.88	64.39	200.53	-47.56	2,339.46	64.39	1,136.34	1,046.12	90.22	12.595	
10,100.00	6,391.01	13,585.71	6,349.92	66.16	200.39	-47.04	2,339.47	59.44	1,236.10	1,142.49	93.61	13.205	

<b>Company:</b>	Bill Barrett Corp.	<b>Local Co-ordinate Reference:</b>	Well Dutch Lake 9-11H
<b>Project:</b>	Weld County, CO NAD 83	<b>TVD Reference:</b>	GL 4719' @ 4719.00ft
<b>Reference Site:</b>	Will Trust 6-62-10_11 SWSW Pad	<b>MD Reference:</b>	GL 4719' @ 4719.00ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Dutch Lake 9-11H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	Casper District
<b>Reference Design:</b>	OH	<b>Offset TVD Reference:</b>	Reference Datum

Offset Design												Will Trust 6-62-10_11 CW2 Pad - Will Trust 6-62-10-3335B2 - OH - Plan 1		Offset Site Error:		0.00 ft	
Survey Program: 0-MWD														Offset Well Error:		0.00 ft	
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Minimum Separation	Separation Factor						
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)						
7,200.00	6,361.15	13,731.63	6,349.67	18.12	202.54	65.75	1,874.83	131.90	1,196.87	1,148.45	48.41	24.721					
7,300.00	6,360.64	13,728.47	6,349.69	19.45	202.45	76.78	1,874.84	128.74	1,096.92	1,049.32	47.60	23.044					
7,400.00	6,359.98	13,724.16	6,349.72	20.88	202.33	105.69	1,874.84	124.43	997.02	945.99	51.02	19.540					
7,500.00	6,358.60	13,719.60	6,349.76	22.33	202.20	69.76	1,874.85	119.87	897.13	843.26	53.86	16.655					
7,600.00	6,359.37	13,713.82	6,349.80	23.83	202.04	83.85	1,874.85	114.09	797.31	743.81	53.51	14.901					
7,700.00	6,359.31	13,707.71	6,349.84	25.34	201.87	68.24	1,874.86	107.98	697.51	639.76	57.75	12.077					
7,800.00	6,361.15	13,702.79	6,349.87	26.80	201.73	39.80	1,874.86	103.06	597.69	532.23	65.46	9.131					
7,900.00	6,364.93	13,699.57	6,349.90	28.30	201.64	18.46	1,874.86	99.84	497.94	429.27	68.67	7.251					
8,000.00	6,369.63	13,695.54	6,349.93	29.90	201.53	29.81	1,874.87	95.81	398.39	328.54	69.85	5.704					
8,100.00	6,372.09	13,689.97	6,349.97	31.58	201.37	35.48	1,874.87	90.23	298.92	229.83	69.08	4.327					
8,200.00	6,370.62	13,684.29	6,350.01	33.28	201.21	36.79	1,874.88	84.55	199.34	130.35	68.99	2.889					
8,300.00	6,367.19	13,679.62	6,350.04	34.96	201.08	15.36	1,874.88	79.88	99.93	29.30	70.63	1.415 Level 3					
8,398.24	6,366.65	13,675.82	6,350.07	36.59	200.98	-0.37	1,874.89	76.09	16.58	-54.12	70.70	0.235 Level 1, CC, ES, SF					
8,400.00	6,367.37	13,675.46	6,350.07	36.62	200.97	-0.58	1,874.89	75.73	17.36	-53.35	70.71	0.246 Level 1					
8,500.00	6,368.18	13,673.42	6,350.08	38.30	200.91	-4.86	1,874.89	73.69	103.03	31.59	71.43	1.442 Level 3					
8,600.00	6,370.74	13,671.66	6,350.09	39.99	200.86	-11.13	1,874.89	71.93	202.43	129.89	72.54	2.791					
8,700.00	6,375.32	13,672.10	6,350.09	41.66	200.87	16.65	1,874.89	72.37	302.32	227.70	74.61	4.052					
8,800.00	6,378.72	13,673.36	6,350.08	43.36	200.91	24.24	1,874.89	73.63	402.22	326.51	75.70	5.313					
8,900.00	6,380.67	13,676.81	6,350.06	45.08	201.00	42.64	1,874.88	77.08	502.05	425.70	76.35	6.576					
9,000.00	6,381.20	13,681.82	6,350.02	46.81	201.14	41.15	1,874.88	82.09	601.79	524.02	77.78	7.737					
9,100.00	6,381.66	13,685.13	6,350.00	48.53	201.24	40.38	1,874.88	85.40	701.64	622.54	79.10	8.870					
9,200.00	6,381.31	13,689.47	6,349.97	50.26	201.36	40.37	1,874.87	89.74	801.44	721.04	80.40	9.968					
9,300.00	6,382.32	13,690.45	6,349.96	52.00	201.39	-13.46	1,874.87	90.72	901.39	822.90	78.49	11.484					
9,400.00	6,382.75	13,687.62	6,349.98	53.75	201.31	-72.47	1,874.87	87.89	1,001.30	917.96	83.34	12.015					
9,500.00	6,384.47	13,681.68	6,350.02	55.52	201.14	-58.91	1,874.88	81.95	1,101.10	1,015.65	85.46	12.885					
9,600.00	6,385.38	13,677.75	6,350.05	57.30	201.03	-84.82	1,874.88	78.02	1,201.00	1,114.86	86.14	13.942					



<b>Company:</b>	Bill Barrett Corp.	<b>Local Co-ordinate Reference:</b>	Well Dutch Lake 9-11H
<b>Project:</b>	Weld County, CO NAD 83	<b>TVD Reference:</b>	GL 4719' @ 4719.00ft
<b>Reference Site:</b>	Will Trust 6-62-10_11 SWSW Pad	<b>MD Reference:</b>	GL 4719' @ 4719.00ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Dutch Lake 9-11H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	Casper District
<b>Reference Design:</b>	OH	<b>Offset TVD Reference:</b>	Reference Datum

Offset Design Will Trust 6-62-10_11 SWSW Pad - Will Trust 6-62-10-4846BN2 - OH - Plan 1													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
6,700.00	6,357.84	13,743.55	6,343.98	13.40	202.80	-17.41	1,403.08	126.23	1,224.84	1,160.31	64.53	18.981		
6,800.00	6,361.41	13,746.78	6,343.96	14.13	202.89	-68.32	1,403.07	129.47	1,125.06	1,079.47	45.59	24.676		
6,900.00	6,359.15	13,749.40	6,343.95	14.97	202.97	-105.19	1,403.07	132.08	1,025.10	981.48	43.62	23.500		
7,000.00	6,358.24	13,750.80	6,343.94	15.87	203.01	-19.67	1,403.07	133.48	925.11	864.72	60.39	15.319		
7,100.00	6,359.39	13,750.57	6,343.94	16.91	203.00	14.32	1,403.07	133.25	825.16	763.13	62.03	13.302		
7,200.00	6,361.15	13,748.80	6,343.95	18.12	202.95	43.87	1,403.07	131.49	725.25	668.72	56.53	12.830		
7,300.00	6,360.64	13,745.64	6,343.97	19.45	202.86	56.92	1,403.07	128.32	625.32	572.95	52.37	11.941		
7,400.00	6,359.98	13,741.32	6,344.00	20.88	202.74	78.68	1,403.08	124.00	525.44	480.62	44.82	11.723		
7,500.00	6,358.60	13,736.76	6,344.02	22.33	202.61	50.20	1,403.08	119.44	425.57	367.87	57.70	7.375		
7,600.00	6,359.37	13,730.97	6,344.06	23.83	202.45	55.91	1,403.09	113.65	325.85	269.13	56.72	5.745		
7,700.00	6,359.31	13,724.86	6,344.09	25.34	202.28	37.13	1,403.09	107.54	226.20	162.19	64.01	3.534		
7,800.00	6,361.15	13,719.93	6,344.12	26.80	202.14	12.93	1,403.10	102.61	126.97	59.48	67.49	1.881		
7,900.00	6,364.93	13,716.71	6,344.14	28.30	202.05	1.49	1,403.10	99.39	33.25	-35.63	68.88	0.483 Level 1		
7,924.93	6,366.14	13,715.95	6,344.14	28.70	202.03	-0.24	1,403.10	98.63	22.02	-46.97	68.99	0.319 Level 1, CC, ES, SF		
8,000.00	6,369.63	13,712.68	6,344.16	29.90	201.94	-10.46	1,403.10	95.36	78.12	8.92	69.20	1.129 Level 2		
8,100.00	6,372.09	13,707.10	6,344.20	31.58	201.78	-20.64	1,403.11	89.79	175.89	106.95	68.95	2.551		
8,200.00	6,370.62	13,701.41	6,344.23	33.28	201.62	-23.47	1,403.12	84.10	274.76	204.93	69.82	3.935		
8,300.00	6,367.19	13,696.73	6,344.26	34.96	201.49	-24.98	1,403.12	79.42	374.02	303.39	70.63	5.296		
8,400.00	6,367.37	13,692.58	6,344.28	36.62	201.37	-49.66	1,403.12	75.26	473.78	404.58	69.20	6.847		
8,500.00	6,368.18	13,690.53	6,344.29	38.30	201.32	-22.32	1,403.13	73.22	573.69	500.83	72.86	7.874		
8,600.00	6,370.74	13,688.76	6,344.30	39.99	201.27	-88.35	1,403.13	71.45	673.65	610.32	63.33	10.637		
8,700.00	6,375.32	13,689.21	6,344.30	41.66	201.28	108.68	1,403.13	71.89	773.65	702.79	70.86	10.918		
8,800.00	6,378.72	13,690.46	6,344.29	43.36	201.32	57.00	1,403.13	73.15	873.64	799.79	73.84	11.831		
8,900.00	6,380.67	13,693.91	6,344.27	45.08	201.41	60.57	1,403.12	76.60	973.55	897.10	76.46	12.733		
9,000.00	6,381.20	13,698.92	6,344.24	46.81	201.55	54.25	1,403.12	81.61	1,073.38	994.62	78.76	13.628		
9,100.00	6,381.66	13,702.23	6,344.23	48.53	201.64	50.05	1,403.11	84.91	1,173.29	1,092.61	80.68	14.543		

<b>Company:</b>	Bill Barrett Corp.	<b>Local Co-ordinate Reference:</b>	Well Dutch Lake 9-11H
<b>Project:</b>	Weld County, CO NAD 83	<b>TVD Reference:</b>	GL 4719' @ 4719.00ft
<b>Reference Site:</b>	Will Trust 6-62-10_11 SWSW Pad	<b>MD Reference:</b>	GL 4719' @ 4719.00ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Dutch Lake 9-11H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	Casper District
<b>Reference Design:</b>	OH	<b>Offset TVD Reference:</b>	Reference Datum

Offset Design Will Trust 6-62-10_11 SWSW Pad - Will Trust 6-62-10-4846BS2 - OH - Plan 1												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
6,200.00	6,119.19	13,649.40	6,337.33	13.06	202.52	-0.59	931.63	126.14	1,201.96	1,055.79	146.16	8.223	
6,300.00	6,182.39	13,650.10	6,337.33	12.80	202.54	-1.36	931.63	126.84	1,115.32	972.31	143.02	7.798	
6,400.00	6,246.08	13,650.04	6,337.33	12.64	202.54	0.42	931.63	126.78	1,031.46	890.21	141.25	7.302	
6,500.00	6,300.44	13,648.73	6,337.34	12.59	202.50	2.36	931.63	125.47	944.42	833.93	110.49	8.548	
6,600.00	6,337.88	13,647.06	6,337.35	12.88	202.46	0.71	931.64	123.79	851.09	765.91	85.18	9.992	
6,700.00	6,357.84	13,648.98	6,337.34	13.40	202.51	-15.43	931.63	125.72	753.60	691.11	62.49	12.060	
6,800.00	6,361.41	13,652.21	6,337.31	14.13	202.60	-42.08	931.63	128.95	653.93	601.50	52.42	12.474	
6,900.00	6,359.15	13,654.83	6,337.30	14.97	202.67	-47.91	931.63	131.57	553.98	503.62	50.36	11.001	
7,000.00	6,358.24	13,656.23	6,337.29	15.87	202.71	-7.52	931.63	132.97	454.04	394.22	59.83	7.589	
7,100.00	6,359.39	13,656.00	6,337.29	16.91	202.71	6.71	931.63	132.73	354.26	293.32	60.94	5.814	
7,200.00	6,361.15	13,654.23	6,337.30	18.12	202.66	13.83	931.63	130.97	254.72	193.61	61.12	4.168	
7,300.00	6,360.64	13,651.07	6,337.32	19.45	202.57	14.53	931.63	127.80	155.42	93.60	61.82	2.514	
7,400.00	6,359.98	13,646.75	6,337.35	20.88	202.45	5.60	931.64	123.48	58.33	-4.56	62.89	0.927 Level 1	
7,453.93	6,359.25	13,644.33	6,337.37	21.66	202.38	-0.41	931.64	121.07	21.88	-41.28	63.16	0.346 Level 1, CC, ES, SF	
7,500.00	6,358.60	13,642.19	6,337.38	22.33	202.32	-7.09	931.64	118.92	50.76	-12.63	63.39	0.801 Level 1	
7,600.00	6,359.37	13,636.39	6,337.42	23.83	202.16	-22.00	931.65	113.13	147.59	84.35	63.24	2.334	
7,700.00	6,359.31	13,630.28	6,337.47	25.34	201.99	-37.01	931.65	107.02	246.73	185.06	61.67	4.001	
7,800.00	6,361.15	13,625.36	6,337.50	26.80	201.85	-42.44	931.66	102.09	346.43	284.95	61.48	5.635	
7,900.00	6,364.93	13,622.13	6,337.52	28.30	201.76	-66.19	931.66	98.87	446.33	392.42	53.91	8.279	
8,000.00	6,369.63	13,618.09	6,337.55	29.90	201.64	-74.04	931.66	94.83	546.24	494.46	51.78	10.549	
8,100.00	6,372.09	13,612.51	6,337.59	31.58	201.49	-50.36	931.67	89.25	646.03	583.25	62.78	10.290	
8,200.00	6,370.62	13,606.83	6,337.63	33.28	201.33	-36.14	931.67	83.57	745.66	677.87	67.79	11.000	
8,300.00	6,367.19	13,602.15	6,337.66	34.96	201.20	-33.41	931.68	78.89	845.27	776.31	68.96	12.257	
8,400.00	6,367.37	13,597.99	6,337.69	36.62	201.08	-69.60	931.68	74.73	945.12	885.22	59.90	15.777	
8,500.00	6,368.18	13,595.95	6,337.71	38.30	201.02	-33.47	931.69	72.69	1,045.07	973.97	71.10	14.698	
8,600.00	6,370.74	13,594.18	6,337.72	39.99	200.97	-129.91	931.69	70.91	1,145.05	1,075.45	69.60	16.451	
8,700.00	6,375.32	13,594.61	6,337.72	41.66	200.98	139.08	931.69	71.35	1,245.03	1,170.59	74.44	16.725	

<b>Company:</b>	Bill Barrett Corp.	<b>Local Co-ordinate Reference:</b>	Well Dutch Lake 9-11H
<b>Project:</b>	Weld County, CO NAD 83	<b>TVD Reference:</b>	GL 4719' @ 4719.00ft
<b>Reference Site:</b>	Will Trust 6-62-10_11 SWSW Pad	<b>MD Reference:</b>	GL 4719' @ 4719.00ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Dutch Lake 9-11H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	Casper District
<b>Reference Design:</b>	OH	<b>Offset TVD Reference:</b>	Reference Datum

Offset Design		Will Trust 6-62-10_11 SWSW Pad - Will Trust 6-62-10-4951B2 - OH - Plan 1											Offset Site Error:		0.00 ft
Survey Program:		0-MWD											Offset Well Error:		0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor			
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)				
5,500.00	5,472.95	13,634.36	6,337.27	13.36	202.94	125.17	459.09	145.76	1,240.52	1,026.26	214.26	5.790			
5,600.00	5,572.93	13,632.69	6,337.28	13.53	202.89	166.31	459.09	144.08	1,174.16	959.75	214.41	5.476			
5,700.00	5,672.92	13,632.01	6,337.28	13.71	202.87	-168.94	459.09	143.41	1,112.99	898.38	214.61	5.186			
5,800.00	5,772.86	13,631.28	6,337.29	13.86	202.85	-0.32	459.09	142.67	1,054.61	840.63	213.98	4.929			
5,900.00	5,870.68	13,629.12	6,337.30	13.84	202.79	9.67	459.09	140.51	988.30	783.00	205.31	4.814			
6,000.00	5,961.75	13,622.55	6,337.35	13.63	202.61	11.33	459.10	133.95	911.75	723.20	188.55	4.836			
6,100.00	6,045.87	13,616.98	6,337.39	13.35	202.45	8.00	459.10	128.37	829.90	652.70	177.20	4.683			
6,200.00	6,119.19	13,614.28	6,337.41	13.06	202.38	-0.60	459.11	125.67	742.27	596.99	145.28	5.109			
6,300.00	6,182.39	13,614.97	6,337.40	12.80	202.40	-1.52	459.11	126.37	650.72	508.64	142.08	4.580			
6,400.00	6,246.08	13,614.91	6,337.40	12.64	202.39	0.53	459.11	126.31	562.36	421.97	140.39	4.006			
6,500.00	6,300.44	13,613.60	6,337.41	12.59	202.36	2.61	459.11	124.99	472.62	363.01	109.61	4.312			
6,600.00	6,337.88	13,611.92	6,337.42	12.88	202.31	0.70	459.11	123.32	378.56	294.39	84.17	4.497			
6,700.00	6,357.84	13,613.84	6,337.41	13.40	202.36	-11.67	459.11	125.24	281.53	220.20	61.34	4.590			
6,800.00	6,361.41	13,617.08	6,337.39	14.13	202.46	-13.39	459.10	128.48	182.54	125.04	57.50	3.175			
6,900.00	6,359.15	13,619.70	6,337.37	14.97	202.53	-5.22	459.10	131.10	83.89	25.15	58.74	1.428 Level 3			
6,981.09	6,358.21	13,620.91	6,337.36	15.70	202.56	-0.41	459.10	132.31	20.85	-38.49	59.34	0.351 Level 1, CC, ES, SF			
7,000.00	6,358.24	13,621.11	6,337.36	15.87	202.57	-0.09	459.10	132.51	28.21	-31.28	59.49	0.474 Level 1			
7,100.00	6,359.39	13,620.88	6,337.36	16.91	202.56	-4.02	459.10	132.28	120.98	60.69	60.29	2.007			
7,200.00	6,361.15	13,619.12	6,337.37	18.12	202.51	-13.02	459.10	130.52	220.21	159.86	60.35	3.649			
7,300.00	6,360.64	13,615.96	6,337.40	19.45	202.42	-28.99	459.10	127.36	319.72	260.65	59.06	5.413			
7,400.00	6,359.98	13,611.65	6,337.43	20.88	202.30	-29.16	459.11	123.04	419.38	359.04	60.33	6.951			
7,500.00	6,358.60	13,607.09	6,337.46	22.33	202.18	-59.55	459.11	118.49	519.08	468.12	50.96	10.187			
7,600.00	6,359.37	13,601.30	6,337.50	23.83	202.01	-56.74	459.12	112.70	618.86	564.61	54.26	11.406			
7,700.00	6,359.31	13,595.20	6,337.54	25.34	201.84	-70.94	459.12	106.60	718.62	669.55	49.07	14.645			
7,800.00	6,361.15	13,590.27	6,337.58	26.80	201.70	-86.41	459.13	101.67	818.49	774.54	43.95	18.623			
7,900.00	6,364.93	13,587.05	6,337.60	28.30	201.61	-126.10	459.13	98.45	918.43	859.66	58.76	15.629			
8,000.00	6,369.63	13,583.02	6,337.63	29.90	201.50	-102.51	459.13	94.42	1,018.33	967.02	51.31	19.847			
8,100.00	6,372.09	13,577.45	6,337.67	31.58	201.34	-66.36	459.14	88.85	1,118.17	1,061.34	56.82	19.678			
8,200.00	6,370.62	13,571.77	6,337.71	33.28	201.18	-43.31	459.15	83.17	1,217.90	1,151.22	66.68	18.265			

<b>Company:</b>	Bill Barrett Corp.	<b>Local Co-ordinate Reference:</b>	Well Dutch Lake 9-11H
<b>Project:</b>	Weld County, CO NAD 83	<b>TVD Reference:</b>	GL 4719' @ 4719.00ft
<b>Reference Site:</b>	Will Trust 6-62-10_11 SWSW Pad	<b>MD Reference:</b>	GL 4719' @ 4719.00ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Dutch Lake 9-11H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	Casper District
<b>Reference Design:</b>	OH	<b>Offset TVD Reference:</b>	Reference Datum

Offset Design Will Trust 6-62-10_11 SWSW Pad - Will Trust 6-62-10-6462BN2 - OH - Plan 1												Offset Site Error: 0.00 ft	
Survey Program: 0-MWD												Offset Well Error: 0.00 ft	
Reference		Offset		Semi Major Axis			Distance						
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)		
5,200.00	5,172.98	13,657.01	6,337.32	12.88	203.06	130.69	-12.66	150.81	1,236.78	1,022.89	213.89	5.782	
5,300.00	5,272.98	13,655.91	6,337.32	13.04	203.03	123.96	-12.66	149.71	1,143.27	929.23	214.04	5.341	
5,400.00	5,372.97	13,653.91	6,337.34	13.20	202.97	99.75	-12.66	147.71	1,050.91	836.82	214.09	4.909	
5,500.00	5,472.95	13,651.53	6,337.35	13.36	202.90	126.49	-12.65	145.33	960.23	745.97	214.26	4.482	
5,600.00	5,572.93	13,649.86	6,337.37	13.53	202.86	166.93	-12.65	143.66	872.01	657.59	214.42	4.067	
5,700.00	5,672.92	13,649.18	6,337.37	13.71	202.84	-168.67	-12.65	142.98	786.72	572.13	214.59	3.666	
5,800.00	5,772.86	13,648.45	6,337.38	13.86	202.82	-0.01	-12.65	142.25	703.10	489.23	213.87	3.287	
5,900.00	5,870.68	13,646.29	6,337.39	13.84	202.76	13.18	-12.65	140.09	614.33	409.59	204.74	3.001	
6,000.00	5,961.75	13,639.72	6,337.44	13.63	202.57	21.11	-12.64	133.53	519.67	334.45	185.22	2.806	
6,100.00	6,045.87	13,634.15	6,337.48	13.35	202.42	19.16	-12.64	127.95	422.17	248.56	173.61	2.432	
6,200.00	6,119.19	13,631.45	6,337.50	13.06	202.34	179.99	-12.63	125.25	322.76	178.14	144.62	2.232	
6,300.00	6,182.39	13,632.14	6,337.49	12.80	202.36	-176.88	-12.63	125.94	223.02	81.70	141.32	1.578	
6,400.00	6,246.08	13,632.07	6,337.49	12.64	202.36	177.33	-12.63	125.87	123.58	-15.78	139.36	0.887 Level 1	
6,500.00	6,300.44	13,630.76	6,337.50	12.59	202.32	179.56	-12.63	124.56	37.06	-71.75	108.81	0.341 Level 1, ES	
6,515.45	6,307.27	13,630.49	6,337.50	12.63	202.31	180.00	-12.63	124.29	33.49	-71.36	104.85	0.319 Level 1, CC, SF	
6,600.00	6,337.88	13,629.08	6,337.51	12.88	202.27	-179.28	-12.63	122.88	93.18	9.52	83.66	1.114 Level 2	
6,700.00	6,357.84	13,631.00	6,337.50	13.40	202.33	83.27	-12.63	124.80	192.03	161.36	30.67	6.261	
6,800.00	6,361.41	13,634.23	6,337.48	14.13	202.42	18.74	-12.64	128.03	291.77	234.26	57.51	5.073	
6,900.00	6,359.15	13,636.85	6,337.46	14.97	202.49	14.99	-12.64	130.65	391.33	332.55	58.77	6.658	
7,000.00	6,358.24	13,638.25	6,337.45	15.87	202.53	7.91	-12.64	132.05	491.15	431.47	59.67	8.231	
7,100.00	6,359.39	13,638.01	6,337.45	16.91	202.52	-33.16	-12.64	131.82	591.10	534.60	56.50	10.462	
7,200.00	6,361.15	13,636.25	6,337.46	18.12	202.47	-36.35	-12.64	130.05	691.07	634.31	56.76	12.176	
7,300.00	6,360.64	13,633.08	6,337.49	19.45	202.39	-53.57	-12.64	126.89	790.95	738.74	52.21	15.151	
7,400.00	6,359.98	13,628.77	6,337.52	20.88	202.26	-41.75	-12.63	122.57	890.79	832.48	58.32	15.275	
7,500.00	6,358.60	13,624.21	6,337.55	22.33	202.14	-77.56	-12.63	118.01	990.61	944.67	45.94	21.563	
7,600.00	6,359.37	13,618.41	6,337.59	23.83	201.97	-67.78	-12.62	112.22	1,090.43	1,038.35	52.08	20.936	
7,700.00	6,359.31	13,612.30	6,337.63	25.34	201.80	-81.97	-12.62	106.11	1,190.22	1,141.68	48.54	24.518	

<b>Company:</b>	Bill Barrett Corp.	<b>Local Co-ordinate Reference:</b>	Well Dutch Lake 9-11H
<b>Project:</b>	Weld County, CO NAD 83	<b>TVD Reference:</b>	GL 4719' @ 4719.00ft
<b>Reference Site:</b>	Will Trust 6-62-10_11 SWSW Pad	<b>MD Reference:</b>	GL 4719' @ 4719.00ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Dutch Lake 9-11H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	Casper District
<b>Reference Design:</b>	OH	<b>Offset TVD Reference:</b>	Reference Datum

Offset Design												Will Trust 6-62-10_11 SWSW Pad - Will Trust 6-62-10-6462BS2B - OH - Plan 1		Offset Site Error:		0.00 ft	
Survey Program: 0-MWD														Offset Well Error:		0.00 ft	
Reference		Offset		Semi Major Axis			Distance										
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning				
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)						
5,100.00	5,072.98	13,737.09	6,335.04	12.70	203.21	-60.69	-500.80	151.98	1,264.13	1,064.41	199.72	6.330					
5,200.00	5,172.98	13,735.82	6,335.05	12.88	203.17	-60.65	-500.80	150.71	1,164.28	955.02	209.26	5.564					
5,300.00	5,272.98	13,734.69	6,335.06	13.04	203.14	-70.56	-500.80	149.58	1,064.47	857.35	207.12	5.139					
5,400.00	5,372.97	13,732.66	6,335.07	13.20	203.08	-102.46	-500.79	147.55	964.72	764.56	200.16	4.820					
5,500.00	5,472.95	13,730.25	6,335.09	13.36	203.01	-73.05	-500.79	145.14	865.00	662.28	202.72	4.267					
5,600.00	5,572.93	13,728.54	6,335.10	13.53	202.97	-23.55	-500.79	143.43	765.27	555.09	210.18	3.641					
5,700.00	5,672.92	13,727.83	6,335.11	13.71	202.95	7.18	-500.79	142.72	665.58	452.07	213.51	3.117					
5,800.00	5,772.86	13,727.07	6,335.11	13.86	202.92	177.65	-500.79	141.96	566.49	353.17	213.32	2.656					
5,900.00	5,870.68	13,724.88	6,335.13	13.84	202.86	-177.96	-500.79	139.77	472.85	269.90	202.95	2.330					
6,000.00	5,961.75	13,718.29	6,335.18	13.63	202.68	-177.44	-500.78	133.17	395.12	208.71	186.41	2.120					
6,100.00	6,045.87	13,712.69	6,335.22	13.35	202.52	-177.74	-500.78	127.58	342.30	166.54	175.77	1.947 ES, SF					
6,171.83	6,100.26	13,710.25	6,335.24	13.14	202.45	-179.76	-500.78	125.14	328.54	174.72	153.82	2.136 CC					
6,200.00	6,119.19	13,709.97	6,335.24	13.06	202.45	179.43	-500.78	124.86	330.74	186.64	144.09	2.295					
6,300.00	6,182.39	13,710.65	6,335.23	12.80	202.46	179.02	-500.78	125.54	361.78	220.91	140.87	2.568					
6,400.00	6,246.08	13,710.57	6,335.24	12.64	202.46	-179.88	-500.78	125.46	414.69	275.43	139.25	2.978					
6,500.00	6,300.44	13,709.25	6,335.24	12.59	202.43	-178.19	-500.77	124.14	489.95	381.11	108.84	4.502					
6,600.00	6,337.88	13,707.56	6,335.26	12.88	202.38	-179.30	-500.77	122.45	581.33	497.62	83.70	6.945					
6,700.00	6,357.84	13,709.49	6,335.24	13.40	202.43	152.84	-500.77	124.38	679.47	620.58	58.89	11.538					
6,800.00	6,361.41	13,712.73	6,335.22	14.13	202.52	38.46	-500.78	127.62	779.37	725.18	54.19	14.383					
6,900.00	6,359.15	13,715.36	6,335.20	14.97	202.60	23.40	-500.78	130.25	879.19	820.32	58.87	14.933					
7,000.00	6,358.24	13,716.77	6,335.19	15.87	202.64	15.02	-500.78	131.66	979.12	918.64	60.48	16.188					
7,100.00	6,359.39	13,716.55	6,335.19	16.91	202.63	-82.29	-500.78	131.44	1,079.11	1,038.79	40.32	26.762					
7,200.00	6,361.15	13,714.80	6,335.20	18.12	202.58	-49.28	-500.78	129.69	1,179.09	1,124.36	54.73	21.542					

<b>Company:</b>	Bill Barrett Corp.	<b>Local Co-ordinate Reference:</b>	Well Dutch Lake 9-11H
<b>Project:</b>	Weld County, CO NAD 83	<b>TVD Reference:</b>	GL 4719' @ 4719.00ft
<b>Reference Site:</b>	Will Trust 6-62-10_11 SWSW Pad	<b>MD Reference:</b>	GL 4719' @ 4719.00ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Dutch Lake 9-11H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	Casper District
<b>Reference Design:</b>	OH	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design</b> Will Trust 6-62-3_2 SE4 Pad - Will Trust 6-62-03-6457A2B - OH - Plan 1												<b>Offset Site Error:</b>	0.00 ft
Survey Program: 0-MWD												<b>Offset Well Error:</b>	0.00 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
10,100.00	6,391.01	13,601.78	6,352.69	66.16	209.09	83.33	4,745.19	67.52	1,170.95	1,076.01	94.94	12.333	
10,200.00	6,390.72	13,595.63	6,352.73	67.91	208.91	44.71	4,745.23	61.37	1,071.20	972.72	98.47	10.878	
10,300.00	6,392.15	13,590.39	6,352.75	69.69	208.77	44.87	4,745.26	56.13	971.47	872.40	99.07	9.805	
10,400.00	6,392.75	13,585.86	6,352.78	71.51	208.64	38.79	4,745.28	51.60	871.69	773.38	98.31	8.866	
10,500.00	6,392.86	13,583.00	6,352.79	73.31	208.56	19.88	4,745.30	48.74	771.86	680.35	91.52	8.434	
10,600.00	6,392.66	13,581.60	6,352.80	75.09	208.52	16.56	4,745.31	47.34	672.01	581.08	90.93	7.390	
10,682.00	6,393.10	13,579.14	6,352.81	76.56	208.45	23.25	4,745.32	44.87	590.25	495.26	94.98	6.214 CC, ES, SF	

<b>Company:</b>	Bill Barrett Corp.	<b>Local Co-ordinate Reference:</b>	Well Dutch Lake 9-11H
<b>Project:</b>	Weld County, CO NAD 83	<b>TVD Reference:</b>	GL 4719' @ 4719.00ft
<b>Reference Site:</b>	Will Trust 6-62-10_11 SWSW Pad	<b>MD Reference:</b>	GL 4719' @ 4719.00ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Dutch Lake 9-11H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	Casper District
<b>Reference Design:</b>	OH	<b>Offset TVD Reference:</b>	Reference Datum

<b>Offset Design</b> Will Trust 6-62-3_2 SE4 Pad - Will Trust 6-62-03-6457B2 - OH - Plan 1												<b>Offset Site Error:</b>	0.00 ft
Survey Program: 0-MWD												<b>Offset Well Error:</b>	0.00 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
10,500.00	6,392.86	13,641.74	6,448.77	73.31	208.59	157.70	5,236.99	51.49	1,263.76	1,176.19	87.57	14.431	
10,600.00	6,392.66	13,640.39	6,448.78	75.09	208.55	159.48	5,237.00	50.14	1,163.88	1,075.88	88.01	13.225	
10,682.00	6,393.10	13,637.95	6,448.79	76.56	208.48	144.31	5,237.01	47.70	1,082.00	989.01	92.99	11.636	CC, ES, SF

<b>Company:</b>	Bill Barrett Corp.	<b>Local Co-ordinate Reference:</b>	Well Dutch Lake 9-11H
<b>Project:</b>	Weld County, CO NAD 83	<b>TVD Reference:</b>	GL 4719' @ 4719.00ft
<b>Reference Site:</b>	Will Trust 6-62-10_11 SWSW Pad	<b>MD Reference:</b>	GL 4719' @ 4719.00ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Dutch Lake 9-11H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	Casper District
<b>Reference Design:</b>	OH	<b>Offset TVD Reference:</b>	Reference Datum

Reference Depths are relative to GL 4719' @ 4719.00ft

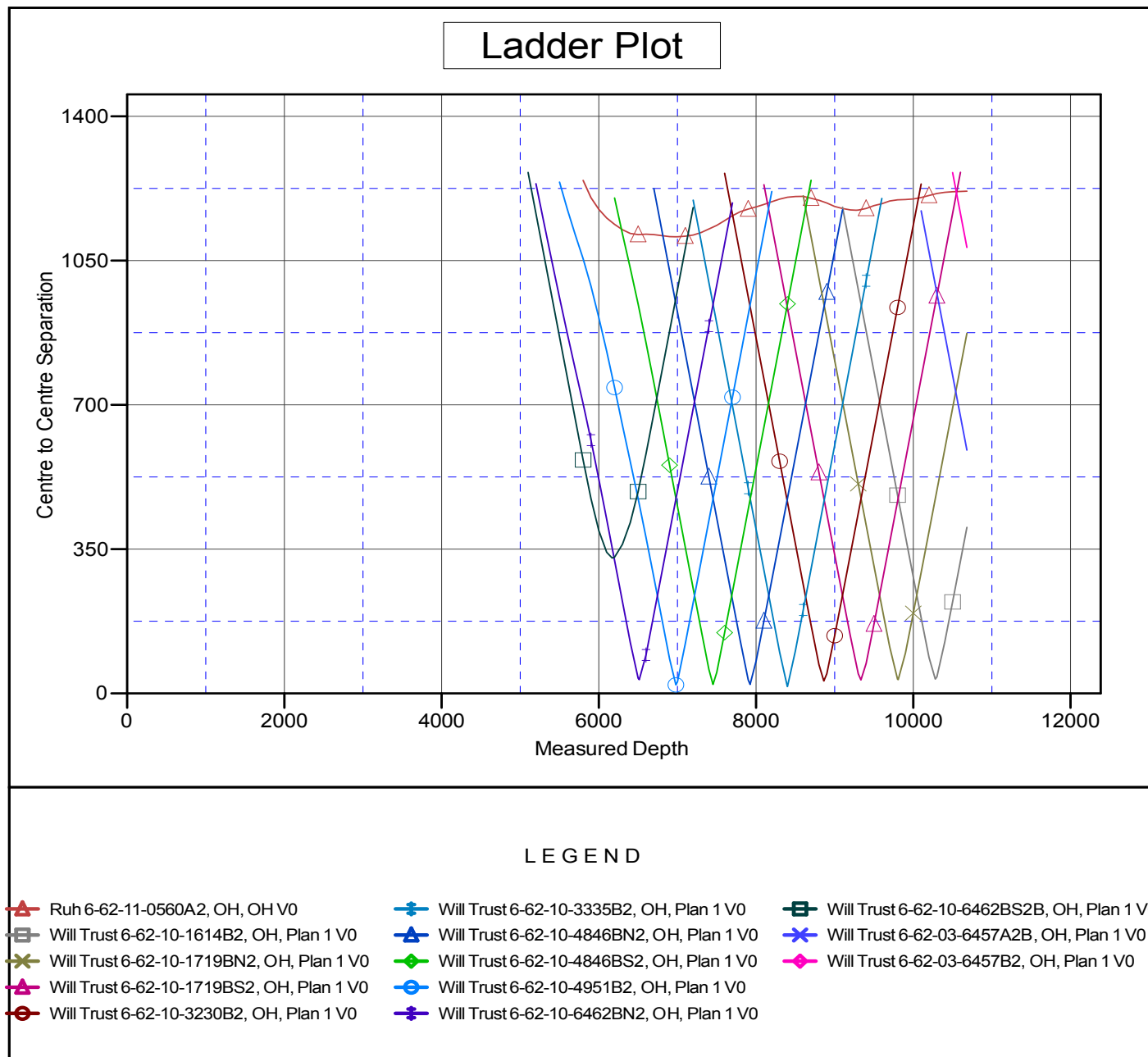
Offset Depths are relative to Offset Datum

Central Meridian is 105° 30' 0.000 W

Coordinates are relative to: Dutch Lake 9-11H

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.78°





<b>Company:</b>	Bill Barrett Corp.	<b>Local Co-ordinate Reference:</b>	Well Dutch Lake 9-11H
<b>Project:</b>	Weld County, CO NAD 83	<b>TVD Reference:</b>	GL 4719' @ 4719.00ft
<b>Reference Site:</b>	Will Trust 6-62-10_11 SWSW Pad	<b>MD Reference:</b>	GL 4719' @ 4719.00ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Dutch Lake 9-11H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	Casper District
<b>Reference Design:</b>	OH	<b>Offset TVD Reference:</b>	Reference Datum

Reference Depths are relative to GL 4719' @ 4719.00ft

Offset Depths are relative to Offset Datum

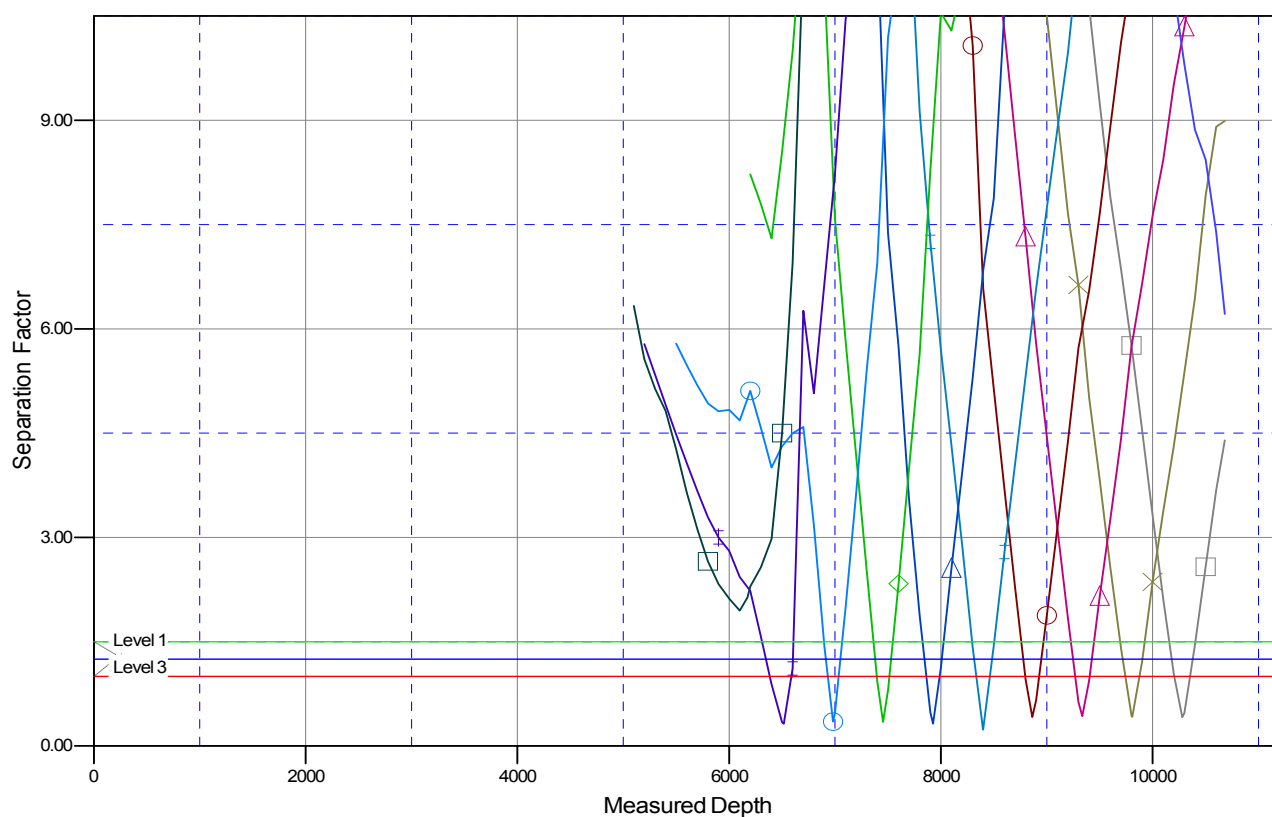
Central Meridian is 105° 30' 0.000 W

Coordinates are relative to: Dutch Lake 9-11H

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.78°

## Separation Factor Plot



### LEGEND

- |   |   |  |
|---|---|--|
| Ruh 6-62-11-0560A2, OH, OH V0             | Will Trust 6-62-10-3335B2, OH, Plan 1 V0  | Will Trust 6-62-10-6462BS2B, OH, Plan 1 V0 |
| Will Trust 6-62-10-1614B2, OH, Plan 1 V0  | Will Trust 6-62-10-4846BN2, OH, Plan 1 V0 | Will Trust 6-62-03-6457A2B, OH, Plan 1 V0  |
| Will Trust 6-62-10-1719BN2, OH, Plan 1 V0 | Will Trust 6-62-10-4846BS2, OH, Plan 1 V0 | Will Trust 6-62-03-6457B2, OH, Plan 1 V0   |
| Will Trust 6-62-10-1719BS2, OH, Plan 1 V0 | Will Trust 6-62-10-4951B2, OH, Plan 1 V0  |  |
| Will Trust 6-62-10-3230B2, OH, Plan 1 V0  | Will Trust 6-62-10-6462BN2, OH, Plan 1 V0 |  |