

# **PDC ENERGY**

**WELD COUNTY, COLORADO  
SE SE SEC. 7 T6N R64W 6th P.M.  
ELVERA 7D-212**

**ORIGINAL WELLBORE  
PROPOSAL #1**

## **Anticollision Report**

**14 March, 2016**



# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well ELVERA 7D-212
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4747.0usft
<b>Reference Site:</b>	SE SE SEC. 7 T6N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4747.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ELVERA 7D-212	<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>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Reference</b>	PROPOSAL #1		
<b>Filter type:</b>	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
<b>Interpolation Method:</b>	MD + Stations Interval 98.4usft	<b>Error Model:</b>	ISCWSA
<b>Depth Range:</b>	Unlimited	<b>Scan Method:</b>	Closest Approach 3D
<b>Results Limited by:</b>	Maximum center-center distance of 10,000.0 us	<b>Error Surface:</b>	Elliptical Conic
<b>Warning Levels Evaluated at:</b>	2.00 Sigma	<b>Casing Method:</b>	Not applied

<b>Survey Tool Program</b>	Date	14/03/2016		
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.0	12,422.2	PROPOSAL #1 (ORIGINAL WELLBORE)	MWD	MWD - Standard

Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
NE NE SEC. 7 T6N R64W 6th P.M.						
BISHOP 7C-204 - ORIGINAL WELLBORE - PROPOSAL	7,483.5	7,315.0	1,799.4	1,742.6	31.686	CC
BISHOP 7C-204 - ORIGINAL WELLBORE - PROPOSAL	7,700.0	7,125.5	1,801.3	1,740.0	29.397	ES
BISHOP 7C-204 - ORIGINAL WELLBORE - PROPOSAL	9,251.9	6,620.8	2,253.1	2,152.5	22.385	SF
BISHOP 7C-232 - ORIGINAL WELLBORE - PROPOSAL	6,196.3	6,167.3	1,848.8	1,815.4	55.357	CC
BISHOP 7C-232 - ORIGINAL WELLBORE - PROPOSAL	12,422.2	12,413.2	1,848.9	1,525.9	5.725	ES, SF
BISHOP 7C-332 - ORIGINAL WELLBORE - PROPOSAL	6,196.3	6,186.5	1,645.6	1,610.3	46.656	CC
BISHOP 7C-332 - ORIGINAL WELLBORE - PROPOSAL	12,422.2	12,511.0	1,647.0	1,324.2	5.103	ES, SF
BISHOP 7C-334 - ORIGINAL WELLBORE - PROPOSAL	7,686.0	7,184.6	1,593.5	1,532.2	26.018	CC
BISHOP 7C-334 - ORIGINAL WELLBORE - PROPOSAL	7,800.0	7,096.9	1,594.9	1,530.8	24.881	ES
BISHOP 7C-334 - ORIGINAL WELLBORE - PROPOSAL	8,956.7	6,719.3	1,907.6	1,813.9	20.363	SF
BISHOP 7C-402 - ORIGINAL WELLBORE - PROPOSAL	6,274.0	6,227.1	2,067.4	2,039.5	74.108	CC
BISHOP 7C-402 - ORIGINAL WELLBORE - PROPOSAL	12,422.2	12,531.4	2,074.8	1,753.0	6.449	ES, SF
BISHOP 7C-404 - ORIGINAL WELLBORE - PROPOSAL	7,750.9	7,126.5	2,018.9	1,956.8	32.492	CC
BISHOP 7C-404 - ORIGINAL WELLBORE - PROPOSAL	7,874.0	7,042.1	2,020.7	1,955.3	30.916	ES
BISHOP 7C-404 - ORIGINAL WELLBORE - PROPOSAL	9,600.0	6,669.6	2,612.7	2,501.7	23.535	SF
BISHOP 7S-214 - ORIGINAL WELLBORE - PROPOSAL	7,505.0	7,342.8	1,331.2	1,273.5	23.050	CC
BISHOP 7S-214 - ORIGINAL WELLBORE - PROPOSAL	7,677.1	7,191.0	1,332.9	1,271.5	21.719	ES
BISHOP 7S-214 - ORIGINAL WELLBORE - PROPOSAL	8,600.0	6,774.5	1,530.3	1,446.8	18.318	SF

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well ELVERA 7D-212
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4747.0usft
<b>Reference Site:</b>	SE SE SEC. 7 T6N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4747.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ELVERA 7D-212	<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>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
NE SE SEC. 7 T6N R64W 6th P.M.						
CARLSON 7S-202 - ORIGINAL WELLBORE - PROPOS	6,196.3	6,191.9	889.9	854.3	24.995	CC
CARLSON 7S-202 - ORIGINAL WELLBORE - PROPOS	12,422.2	12,417.4	890.0	567.5	2.760	ES, SF
CARLSON 7S-204 - ORIGINAL WELLBORE - PROPOS	7,497.3	7,261.5	840.2	786.1	15.552	CC
CARLSON 7S-204 - ORIGINAL WELLBORE - PROPOS	7,600.0	7,167.2	840.9	784.7	14.969	ES
CARLSON 7S-204 - ORIGINAL WELLBORE - PROPOS	8,100.0	6,850.0	906.6	839.0	13.413	SF
CARLSON 7S-212 - ORIGINAL WELLBORE - PROPOS	2,208.9	2,000.0	1,068.2	1,059.0	115.951	CC
CARLSON 7S-212 - ORIGINAL WELLBORE - PROPOS	12,422.2	12,514.4	1,378.2	1,055.8	4.275	ES, SF
CARLSON 7S-312 - ORIGINAL WELLBORE - PROPOS	4,883.2	4,681.7	1,052.1	1,028.7	44.885	CC
CARLSON 7S-312 - ORIGINAL WELLBORE - PROPOS	12,422.2	12,549.0	1,141.9	820.2	3.549	ES, SF
CARLSON 7S-314 - ORIGINAL WELLBORE - PROPOS	2,202.6	2,000.0	1,079.4	1,070.1	115.875	CC
CARLSON 7S-314 - ORIGINAL WELLBORE - PROPOS	7,700.0	7,157.9	1,089.7	1,030.8	18.496	ES
CARLSON 7S-314 - ORIGINAL WELLBORE - PROPOS	8,366.1	6,821.8	1,208.4	1,132.8	15.987	SF
CARLSON 7S-404 - ORIGINAL WELLBORE - PROPOS	7,737.1	7,072.8	564.7	505.8	9.575	CC
CARLSON 7S-404 - ORIGINAL WELLBORE - PROPOS	7,775.6	7,043.8	565.3	505.3	9.417	ES
CARLSON 7S-404 - ORIGINAL WELLBORE - PROPOS	7,972.4	6,922.7	588.8	524.1	9.101	SF
CARLSON 7S-432 - ORIGINAL WELLBORE - PROPOS	6,265.9	6,224.1	516.1	487.9	18.313	CC
CARLSON 7S-432 - ORIGINAL WELLBORE - PROPOS	12,422.2	12,539.2	547.0	242.0	1.794	ES, SF

Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well ELVERA 7D-212
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4747.0usft
<b>Reference Site:</b>	SE SE SEC. 7 T6N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4747.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ELVERA 7D-212	<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>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

Summary						
Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
SE SE SEC. 7 T6N R64W 6th P.M.						
ABDN VERT DYER #42-7 - Wellbore #1 - Design #1	6,377.3	6,295.9	1,394.2	1,253.6	9.919	CC
ABDN VERT DYER #42-7 - Wellbore #1 - Design #1	6,550.0	6,456.3	1,395.6	1,251.3	9.672	ES
ABDN VERT DYER #42-7 - Wellbore #1 - Design #1	6,900.0	6,712.6	1,425.3	1,274.1	9.429	SF
ABDN VERT EHRlich #3 - Wellbore #1 - Design #1	3,938.6	3,861.9	2,202.1	2,112.5	24.569	CC
ABDN VERT EHRlich #3 - Wellbore #1 - Design #1	6,200.8	6,099.3	2,231.7	2,090.5	15.812	ES
ABDN VERT EHRlich #3 - Wellbore #1 - Design #1	6,250.0	6,148.5	2,233.7	2,091.9	15.751	SF
ABDN VERT GRADY #1 - Wellbore #1 - Design #1	8,121.3	6,861.5	1,401.6	1,220.9	7.755	CC
ABDN VERT GRADY #1 - Wellbore #1 - Design #1	8,169.3	6,861.0	1,402.4	1,220.4	7.707	ES
ABDN VERT GRADY #1 - Wellbore #1 - Design #1	8,400.0	6,858.5	1,429.0	1,241.0	7.601	SF
<b>ELVERA 7D-312 - ORIGINAL WELLBORE - PROPOSAL</b>	<b>1,145.0</b>	<b>1,145.0</b>	<b>15.0</b>	<b>10.1</b>	<b>3.084</b>	<b>CC</b>
ELVERA 7D-312 - ORIGINAL WELLBORE - PROPOSAL	12,422.2	12,476.8	292.4	-23.3	0.926	Level 1, ES, SF
ELVERA 7D-314 - ORIGINAL WELLBORE - PROPOSAL	1,144.6	1,145.6	75.1	70.2	15.417	CC
ELVERA 7D-314 - ORIGINAL WELLBORE - PROPOSAL	1,181.1	1,181.6	75.2	70.1	14.938	ES
ELVERA 7D-314 - ORIGINAL WELLBORE - PROPOSAL	7,677.1	7,174.7	237.6	176.6	3.897	SF
ELVERA 7D-402 - ORIGINAL WELLBORE - PROPOSAL	1,044.9	1,044.9	30.0	25.6	6.795	CC
ELVERA 7D-402 - ORIGINAL WELLBORE - PROPOSAL	1,181.1	1,180.9	30.4	25.3	6.035	ES
ELVERA 7D-402 - ORIGINAL WELLBORE - PROPOSAL	12,422.2	12,518.8	549.2	241.7	1.786	SF
ELVERA 7D-404 - ORIGINAL WELLBORE - PROPOSAL	1,044.7	1,045.7	90.1	85.7	20.379	CC
ELVERA 7D-404 - ORIGINAL WELLBORE - PROPOSAL	1,082.7	1,083.0	90.2	85.6	19.658	ES
ELVERA 7D-404 - ORIGINAL WELLBORE - PROPOSAL	7,874.0	7,029.6	475.6	410.1	7.260	SF
<b>ELVERA 7S-234 - ORIGINAL WELLBORE - PROPOSAL</b>	<b>7,281.9</b>	<b>7,557.4</b>	<b>51.3</b>	<b>-3.3</b>	<b>0.940</b>	<b>Level 1, CC</b>
<b>ELVERA 7S-234 - ORIGINAL WELLBORE - PROPOSAL</b>	<b>7,381.9</b>	<b>7,458.0</b>	<b>51.7</b>	<b>-4.4</b>	<b>0.921</b>	<b>Level 1, ES, SF</b>
<b>ELVERA 7S-332 - ORIGINAL WELLBORE - PROPOSAL</b>	<b>1,260.0</b>	<b>1,260.0</b>	<b>15.0</b>	<b>9.6</b>	<b>2.788</b>	<b>CC</b>
ELVERA 7S-332 - ORIGINAL WELLBORE - PROPOSAL	12,422.2	12,552.7	264.4	-48.7	0.845	Level 1, ES, SF
ELVERA 7S-334 - ORIGINAL WELLBORE - PROPOSAL	1,260.0	1,260.0	45.1	39.7	8.363	CC
ELVERA 7S-334 - ORIGINAL WELLBORE - PROPOSAL	1,377.9	1,377.7	45.2	39.3	7.639	ES
ELVERA 7S-334 - ORIGINAL WELLBORE - PROPOSAL	7,700.0	7,287.6	309.3	246.4	4.916	SF
EXIST VERT CARLSON #33-7 - Wellbore #1 - Design #1	5,174.5	5,060.6	830.2	711.5	6.993	CC
EXIST VERT CARLSON #33-7 - Wellbore #1 - Design #1	6,200.8	6,086.3	830.4	689.4	5.890	ES
EXIST VERT CARLSON #33-7 - Wellbore #1 - Design #1	6,250.0	6,135.5	832.3	690.7	5.876	SF
EXIST VERT CARLSON #34-7 - Wellbore #1 - Design #1	1,260.0	1,233.0	1,095.6	1,068.6	40.558	CC
EXIST VERT CARLSON #34-7 - Wellbore #1 - Design #1	1,400.0	1,372.9	1,097.1	1,067.0	36.405	ES
EXIST VERT CARLSON #34-7 - Wellbore #1 - Design #1	6,196.3	6,094.8	1,605.9	1,466.4	11.509	SF
EXIST VERT CARLSON #44-7 - Wellbore #1 - Design #1	1,260.0	1,251.0	461.7	434.5	16.976	CC
EXIST VERT CARLSON #44-7 - Wellbore #1 - Design #1	1,300.0	1,291.0	461.9	433.8	16.444	ES
EXIST VERT CARLSON #44-7 - Wellbore #1 - Design #1	7,000.0	6,758.2	1,136.4	982.8	7.397	SF
EXIST VERT DYER #41-7 - Wellbore #1 - Design #1	6,870.2	6,698.6	2,715.2	2,563.8	17.935	CC
EXIST VERT DYER #41-7 - Wellbore #1 - Design #1	6,950.0	6,741.9	2,716.0	2,562.9	17.734	ES
EXIST VERT DYER #41-7 - Wellbore #1 - Design #1	8,169.3	6,827.0	2,997.4	2,815.6	16.481	SF
EXIST VERT EHRlich #1 - Wellbore #1 - Design #1	3,929.9	3,849.3	3,471.5	3,382.1	38.832	CC
EXIST VERT EHRlich #1 - Wellbore #1 - Design #1	6,200.8	6,095.3	3,499.6	3,358.5	24.801	ES
EXIST VERT EHRlich #1 - Wellbore #1 - Design #1	6,250.0	6,144.5	3,501.6	3,359.8	24.697	SF
EXIST VERT EHRlich #2 - Wellbore #1 - Design #1	1,260.0	1,220.0	3,442.4	3,415.6	128.061	CC
EXIST VERT EHRlich #2 - Wellbore #1 - Design #1	1,600.0	1,559.2	3,445.9	3,411.4	99.963	ES
EXIST VERT EHRlich #2 - Wellbore #1 - Design #1	6,250.0	6,135.5	3,690.2	3,549.1	26.164	SF
EXIST VERT EHRlich #22-7 - Wellbore #1 - Design #1	6,196.3	6,098.8	2,713.8	2,577.1	19.852	CC
EXIST VERT EHRlich #22-7 - Wellbore #1 - Design #1	6,200.8	6,103.3	2,713.8	2,572.9	19.254	ES
EXIST VERT EHRlich #22-7 - Wellbore #1 - Design #1	6,250.0	6,152.5	2,715.7	2,574.1	19.174	SF
EXIST VERT EHRlich #24-7 - Wellbore #1 - Design #1	1,260.0	1,223.0	2,318.3	2,291.4	86.147	CC
EXIST VERT EHRlich #24-7 - Wellbore #1 - Design #1	1,574.8	1,537.2	2,322.1	2,288.2	68.424	ES
EXIST VERT EHRlich #24-7 - Wellbore #1 - Design #1	6,250.0	6,138.5	2,627.9	2,487.2	18.682	SF
EXIST VERT EHRlich #32-7 - Wellbore #1 - Design #1	6,196.3	6,101.8	1,470.1	1,330.6	10.537	CC, ES
EXIST VERT EHRlich #32-7 - Wellbore #1 - Design #1	6,350.0	6,254.3	1,479.4	1,338.8	10.524	SF

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

Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well ELVERA 7D-212
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4747.0usft
<b>Reference Site:</b>	SE SE SEC. 7 T6N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4747.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ELVERA 7D-212	<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>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
SE SE SEC. 7 T6N R64W 6th P.M.						
EXIST VERT EHRlich #4 - Wellbore #1 - Design #1	6,196.3	6,095.8	3,697.0	3,560.1	27.011	CC
EXIST VERT EHRlich #4 - Wellbore #1 - Design #1	6,200.8	6,100.3	3,697.0	3,556.3	26.266	ES
EXIST VERT EHRlich #4 - Wellbore #1 - Design #1	6,250.0	6,149.5	3,698.9	3,557.4	26.149	SF
EXIST VERT ERICKSON A #8-1 - Wellbore #1 - Design	12,205.5	4,843.0	3,464.4	3,257.9	16.782	CC
EXIST VERT ERICKSON A #8-1 - Wellbore #1 - Design	12,300.0	4,843.0	3,465.6	3,257.0	16.613	ES
EXIST VERT ERICKSON A #8-1 - Wellbore #1 - Design	12,422.2	4,843.0	3,471.1	3,259.7	16.418	SF
EXIST VERT ERICKSON A #8-17 - Wellbore #1 - Design	11,761.5	6,892.2	2,108.9	1,829.1	7.539	CC
EXIST VERT ERICKSON A #8-17 - Wellbore #1 - Design	11,811.0	6,891.7	2,109.4	1,828.3	7.505	ES
EXIST VERT ERICKSON A #8-17 - Wellbore #1 - Design	12,204.7	6,887.4	2,154.9	1,862.9	7.380	SF
EXIST VERT ERICKSON A #8-2 - Wellbore #1 - Design	10,848.6	6,877.1	2,788.5	2,534.3	10.970	CC
EXIST VERT ERICKSON A #8-2 - Wellbore #1 - Design	10,925.2	6,876.3	2,789.6	2,533.3	10.884	ES
EXIST VERT ERICKSON A #8-2 - Wellbore #1 - Design	11,700.0	6,867.9	2,915.6	2,637.8	10.497	SF
EXIST VERT ERICKSON A #8-7 - Wellbore #1 - Design	11,046.3	6,874.0	1,473.4	1,213.7	5.674	CC
EXIST VERT ERICKSON A #8-7 - Wellbore #1 - Design	11,100.0	6,873.4	1,474.3	1,213.2	5.646	ES
EXIST VERT ERICKSON A #8-7 - Wellbore #1 - Design	11,300.0	6,871.2	1,495.0	1,228.4	5.606	SF
EXIST VERT ERICKSON A #8-8 - Wellbore #1 - Design	12,376.6	6,897.5	1,485.3	1,188.4	5.003	CC
EXIST VERT ERICKSON A #8-8 - Wellbore #1 - Design	12,422.2	6,897.0	1,486.0	1,187.8	4.984	ES, SF
EXIST VERT FRANCEN #23-8 - Wellbore #1 - Design #1	9,397.2	6,863.8	89.8	-125.2	0.418	Level 1, CC, SF
EXIST VERT FRANCEN #23-8 - Wellbore #1 - Design #1	9,400.0	6,863.8	89.8	-125.2	0.418	Level 1, ES
EXIST VERT FRANCEN #24-8 - Wellbore #1 - Design #1	9,720.1	4,645.0	2,485.7	2,383.1	24.226	CC
EXIST VERT FRANCEN #24-8 - Wellbore #1 - Design #1	9,744.1	4,645.0	2,485.9	2,382.9	24.135	ES
EXIST VERT FRANCEN #24-8 - Wellbore #1 - Design #1	10,728.3	4,645.0	2,682.4	2,563.2	22.495	SF
EXIST VERT FRANCIS #11-8 - Wellbore #1 - Design #1	8,036.9	6,853.4	2,915.7	2,737.2	16.338	CC
EXIST VERT FRANCIS #11-8 - Wellbore #1 - Design #1	8,100.0	6,852.7	2,916.4	2,736.3	16.195	ES
EXIST VERT FRANCIS #11-8 - Wellbore #1 - Design #1	9,350.4	6,839.3	3,197.8	2,984.3	14.979	SF
EXIST VERT FRANCIS #21-8 - Wellbore #1 - Design #1	9,388.5	6,858.9	2,959.5	2,744.8	13.783	CC
EXIST VERT FRANCIS #21-8 - Wellbore #1 - Design #1	9,448.8	6,858.2	2,960.2	2,743.8	13.681	ES
EXIST VERT FRANCIS #21-8 - Wellbore #1 - Design #1	10,500.0	6,846.9	3,161.3	2,916.1	12.891	SF
EXIST VERT FRANCIS #22-8 - Wellbore #1 - Design #1	9,388.7	6,863.9	1,258.2	1,043.4	5.858	CC
EXIST VERT FRANCIS #22-8 - Wellbore #1 - Design #1	9,400.0	6,863.8	1,258.2	1,043.1	5.850	ES
EXIST VERT FRANCIS #22-8 - Wellbore #1 - Design #1	9,600.0	6,861.6	1,275.8	1,055.2	5.784	SF
EXIST VERT KREPS #1 - Wellbore #1 - Design #1	6,196.3	6,102.8	2,918.4	2,777.6	20.730	CC, ES
EXIST VERT KREPS #1 - Wellbore #1 - Design #1	7,300.0	6,818.7	3,208.3	3,047.5	19.952	SF
EXIST VERT KREPS #11-7 - Wellbore #1 - Design #1	6,196.3	6,115.8	4,464.2	4,325.7	32.245	CC
EXIST VERT KREPS #11-7 - Wellbore #1 - Design #1	6,200.8	6,120.3	4,464.2	4,324.0	31.834	ES
EXIST VERT KREPS #11-7 - Wellbore #1 - Design #1	7,329.0	6,832.0	5,054.8	4,893.2	31.279	SF
EXIST VERT KREPS #21-7 - Wellbore #1 - Design #1	6,196.3	6,119.8	3,678.3	3,538.9	26.377	CC, ES
EXIST VERT KREPS #21-7 - Wellbore #1 - Design #1	7,300.0	6,835.7	4,161.5	4,000.6	25.867	SF
EXIST VERT MHS #8-33 - Wellbore #1 - Design #1	8,161.6	6,855.1	1,014.2	832.5	5.582	CC
EXIST VERT MHS #8-33 - Wellbore #1 - Design #1	8,200.0	6,854.7	1,014.9	832.2	5.555	ES
EXIST VERT MHS #8-33 - Wellbore #1 - Design #1	8,300.0	6,853.6	1,023.6	838.3	5.524	SF
EXIST VERT MILE HIGH SHEEP #8-32 - Wellbore #1 - I	8,039.9	6,864.4	79.0	-99.6	0.442	Level 1, CC, ES, SF
EXIST VERT MILE HIGH SHEEP #8-35 - Wellbore #1 - I	8,632.4	6,868.0	548.9	354.6	2.825	CC
EXIST VERT MILE HIGH SHEEP #8-35 - Wellbore #1 - I	8,661.4	6,867.7	549.7	354.6	2.818	ES, SF
EXIST VERT ROY CARLSON #43-7 - Wellbore #1 - Des	6,917.5	6,730.2	92.1	-60.1	0.605	Level 1, CC, ES, SF
EXIST VERT UHRICH #33-8 - Wellbore #1 - Wellbore #1	10,884.0	6,859.7	14.7	-106.5	0.121	Level 1, CC, ES, SF
EXIST VERT UHRICH #34-8 - Wellbore #1 - Design #1	10,927.2	6,837.2	1,423.0	1,168.0	5.581	CC
EXIST VERT UHRICH #34-8 - Wellbore #1 - Design #1	11,000.0	6,836.5	1,424.8	1,167.9	5.545	ES
EXIST VERT UHRICH #34-8 - Wellbore #1 - Design #1	11,122.0	6,835.1	1,436.3	1,175.9	5.517	SF
EXIST VERT UHRICH #43-8 - Wellbore #1 - Design #1	12,422.2	6,876.0	59.3	-236.7	0.200	Level 1, CC, ES, SF
EXIST VERT UHRICH #44-8 - Wellbore #1 - Design #1	12,223.3	6,851.2	1,422.8	1,132.6	4.904	CC
EXIST VERT UHRICH #44-8 - Wellbore #1 - Design #1	12,300.0	6,850.3	1,424.8	1,132.6	4.875	ES
EXIST VERT UHRICH #44-8 - Wellbore #1 - Design #1	12,422.2	6,849.0	1,436.6	1,140.9	4.859	SF

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