

PDC ENERGY

**WELD COUNTY, COLORADO
NE SE SEC. 7 T6N R64W 6th P.M.
CARLSON 7S-432**

**ORIGINAL WELLBORE
PROPOSAL #1**

Anticollision Report

04 March, 2016



Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well CARLSON 7S-432
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4760.0usft
Reference Site:	NE SE SEC. 7 T6N R64W 6th P.M.	MD Reference:	KB-EST @ 4760.0usft
Site Error:	0.0 usft	North Reference:	True
Reference Well:	CARLSON 7S-432	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

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

Survey Tool Program	Date	04/03/2016		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	12,543.4	PROPOSAL #1 (ORIGINAL WELLBORE)	MWD	MWD - Standard

Summary						
Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
NE NE SEC. 7 T6N R64W 6th P.M.						
BISHOP 7C-204 - ORIGINAL WELLBORE - PROPOSAL	6,988.2	7,899.3	1,283.3	1,231.9	24.964	ES
BISHOP 7C-204 - ORIGINAL WELLBORE - PROPOSAL	6,992.0	7,896.2	1,283.3	1,231.9	24.973	CC
BISHOP 7C-204 - ORIGINAL WELLBORE - PROPOSAL	8,700.0	6,800.0	1,527.0	1,448.8	19.529	SF
BISHOP 7C-232 - ORIGINAL WELLBORE - PROPOSAL	6,250.5	6,263.2	1,332.7	1,304.2	46.705	CC
BISHOP 7C-232 - ORIGINAL WELLBORE - PROPOSAL	12,543.4	12,416.3	1,344.9	1,026.4	4.223	ES, SF
BISHOP 7C-332 - ORIGINAL WELLBORE - PROPOSAL	6,340.7	6,372.8	1,129.6	1,101.8	40.666	CC
BISHOP 7C-332 - ORIGINAL WELLBORE - PROPOSAL	12,543.4	12,513.4	1,135.5	815.9	3.553	ES, SF
BISHOP 7C-334 - ORIGINAL WELLBORE - PROPOSAL	7,182.6	7,821.9	1,077.4	1,026.4	21.136	CC
BISHOP 7C-334 - ORIGINAL WELLBORE - PROPOSAL	7,600.0	7,425.2	1,079.6	1,024.5	19.614	ES
BISHOP 7C-334 - ORIGINAL WELLBORE - PROPOSAL	8,400.0	6,950.0	1,201.4	1,129.5	16.704	SF
BISHOP 7C-402 - ORIGINAL WELLBORE - PROPOSAL	8,430.9	8,422.9	1,551.3	1,457.5	16.529	CC
BISHOP 7C-402 - ORIGINAL WELLBORE - PROPOSAL	12,543.4	12,535.4	1,551.3	1,230.1	4.830	ES, SF
BISHOP 7C-404 - ORIGINAL WELLBORE - PROPOSAL	7,509.6	7,525.2	1,502.8	1,449.7	28.321	CC
BISHOP 7C-404 - ORIGINAL WELLBORE - PROPOSAL	7,775.6	7,285.1	1,505.1	1,447.2	25.983	ES
BISHOP 7C-404 - ORIGINAL WELLBORE - PROPOSAL	9,100.0	6,800.0	1,875.2	1,784.9	20.782	SF
BISHOP 7S-214 - ORIGINAL WELLBORE - PROPOSAL	6,988.2	7,949.5	815.2	763.5	15.777	ES
BISHOP 7S-214 - ORIGINAL WELLBORE - PROPOSAL	7,002.3	7,938.0	815.1	763.5	15.791	CC
BISHOP 7S-214 - ORIGINAL WELLBORE - PROPOSAL	8,070.8	7,081.9	889.4	826.7	14.179	SF

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Reference Site:	NE SE SEC. 7 T6N R64W 6th P.M.	MD Reference:	KB-EST @ 4760.0usft
Site Error:	0.0 usft	North Reference:	True
Reference Well:	CARLSON 7S-432	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #1	Offset TVD Reference:	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
NE SE SEC. 7 T6N R64W 6th P.M.						
CARLSON 7S-202 - ORIGINAL WELLBORE - PROPOS	1,060.0	1,061.0	15.0	10.5	3.344	CC
CARLSON 7S-202 - ORIGINAL WELLBORE - PROPOS	1,082.7	1,083.7	15.1	10.5	3.283	ES
CARLSON 7S-202 - ORIGINAL WELLBORE - PROPOS	12,543.4	12,420.7	417.5	126.9	1.437	Level 3, SF
CARLSON 7S-204 - ORIGINAL WELLBORE - PROPOS	1,060.0	1,062.0	74.8	70.3	16.651	CC
CARLSON 7S-204 - ORIGINAL WELLBORE - PROPOS	1,082.7	1,084.7	74.9	70.3	16.297	ES
CARLSON 7S-204 - ORIGINAL WELLBORE - PROPOS	6,988.2	7,860.2	324.1	275.5	6.665	SF
CARLSON 7S-212 - ORIGINAL WELLBORE - PROPOS	1,060.0	1,062.0	45.1	40.6	10.028	CC
CARLSON 7S-212 - ORIGINAL WELLBORE - PROPOS	1,082.7	1,084.7	45.1	40.5	9.819	ES
CARLSON 7S-212 - ORIGINAL WELLBORE - PROPOS	12,543.4	12,516.0	881.0	566.2	2.798	SF
CARLSON 7S-312 - ORIGINAL WELLBORE - PROPOS	1,060.0	1,061.0	30.0	25.5	6.688	CC
CARLSON 7S-312 - ORIGINAL WELLBORE - PROPOS	1,082.7	1,083.7	30.1	25.5	6.554	ES
CARLSON 7S-312 - ORIGINAL WELLBORE - PROPOS	12,543.4	12,551.3	634.6	318.4	2.007	SF
CARLSON 7S-314 - ORIGINAL WELLBORE - PROPOS	1,060.0	1,061.0	59.8	55.3	13.315	CC
CARLSON 7S-314 - ORIGINAL WELLBORE - PROPOS	1,082.7	1,083.7	59.9	55.3	13.034	ES
CARLSON 7S-314 - ORIGINAL WELLBORE - PROPOS	7,874.0	7,189.8	606.1	549.3	10.667	SF
CARLSON 7S-404 - ORIGINAL WELLBORE - PROPOS	7,377.9	7,585.7	48.6	0.1	1.001	Level 2, CC
CARLSON 7S-404 - ORIGINAL WELLBORE - PROPOS	7,445.6	7,518.3	48.8	-0.4	0.993	Level 1, ES, SF

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Site Error:	0.0 usft	North Reference:	True
Reference Well:	CARLSON 7S-432	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #1	Offset TVD Reference:	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	6,482.8	6,443.4	878.1	735.0	6.133	CC
ABDN VERT DYER #42-7 - Wellbore #1 - Design #1	6,600.0	6,554.7	878.9	733.3	6.038	ES
ABDN VERT DYER #42-7 - Wellbore #1 - Design #1	6,791.3	6,719.3	888.1	739.2	5.965	SF
ABDN VERT EHRlich #3 - Wellbore #1 - Design #1	6,315.7	6,255.8	2,285.0	2,145.8	16.412	CC
ABDN VERT EHRlich #3 - Wellbore #1 - Design #1	6,350.0	6,290.1	2,285.8	2,145.7	16.316	ES
ABDN VERT EHRlich #3 - Wellbore #1 - Design #1	6,397.6	6,337.6	2,289.6	2,149.2	16.306	SF
ABDN VERT GRADY #1 - Wellbore #1 - Design #1	8,237.3	7,025.6	885.5	703.5	4.865	CC
ABDN VERT GRADY #1 - Wellbore #1 - Design #1	8,267.7	7,025.4	886.0	703.2	4.847	ES
ABDN VERT GRADY #1 - Wellbore #1 - Design #1	8,366.1	7,024.7	894.8	709.4	4.828	SF
ELVERA 7D-212 - ORIGINAL WELLBORE - PROPOSAL	6,224.2	6,265.9	516.1	483.2	15.702	CC
ELVERA 7D-212 - ORIGINAL WELLBORE - PROPOSAL	12,543.4	12,422.2	547.0	241.9	1.793	ES, SF
ELVERA 7D-312 - ORIGINAL WELLBORE - PROPOSAL	6,333.8	6,345.5	800.0	771.9	28.509	CC
ELVERA 7D-312 - ORIGINAL WELLBORE - PROPOSAL	12,543.4	12,476.8	807.7	489.0	2.534	ES, SF
ELVERA 7D-314 - ORIGINAL WELLBORE - PROPOSAL	7,105.5	7,858.2	752.6	701.7	14.786	CC, ES
ELVERA 7D-314 - ORIGINAL WELLBORE - PROPOSAL	8,000.0	7,108.3	800.4	738.6	12.957	SF
ELVERA 7D-402 - ORIGINAL WELLBORE - PROPOSAL	2,167.8	2,317.7	1,033.1	1,022.8	99.648	CC
ELVERA 7D-402 - ORIGINAL WELLBORE - PROPOSAL	12,543.4	12,518.8	1,033.2	711.0	3.206	ES, SF
ELVERA 7D-404 - ORIGINAL WELLBORE - PROPOSAL	7,513.8	7,510.3	984.7	931.1	18.395	CC
ELVERA 7D-404 - ORIGINAL WELLBORE - PROPOSAL	7,700.0	7,336.3	985.9	929.1	17.344	ES
ELVERA 7D-404 - ORIGINAL WELLBORE - PROPOSAL	8,366.1	6,950.0	1,093.1	1,021.8	15.337	SF
ELVERA 7S-234 - ORIGINAL WELLBORE - PROPOSAL	6,900.0	8,005.4	466.0	414.0	8.973	SF
ELVERA 7S-234 - ORIGINAL WELLBORE - PROPOSAL	6,949.4	7,968.3	464.8	413.0	8.976	CC, ES
ELVERA 7S-332 - ORIGINAL WELLBORE - PROPOSAL	6,325.8	6,410.2	261.1	231.8	8.911	CC
ELVERA 7S-332 - ORIGINAL WELLBORE - PROPOSAL	12,543.4	12,554.4	283.8	-14.4	0.952	Level 1, ES, SF
ELVERA 7S-334 - ORIGINAL WELLBORE - PROPOSAL	7,107.7	7,988.5	208.6	157.2	4.053	CC, ES, SF
EXIST VERT CARLSON #33-7 - Wellbore #1 - Design #1	6,315.7	6,242.8	902.0	763.0	6.489	CC
EXIST VERT CARLSON #33-7 - Wellbore #1 - Design #1	6,350.0	6,277.1	902.8	762.7	6.445	ES, SF
EXIST VERT CARLSON #34-7 - Wellbore #1 - Design #1	1,060.0	1,020.0	1,965.3	1,943.1	88.234	CC
EXIST VERT CARLSON #34-7 - Wellbore #1 - Design #1	6,350.0	6,290.1	2,030.7	1,890.4	14.473	ES
EXIST VERT CARLSON #34-7 - Wellbore #1 - Design #1	6,496.0	6,434.3	2,041.9	1,899.6	14.343	SF
EXIST VERT CARLSON #44-7 - Wellbore #1 - Design #1	1,060.0	1,038.0	1,461.4	1,438.9	65.075	CC
EXIST VERT CARLSON #44-7 - Wellbore #1 - Design #1	1,100.0	1,078.0	1,461.6	1,438.3	62.596	ES
EXIST VERT CARLSON #44-7 - Wellbore #1 - Design #1	7,350.0	6,984.3	1,687.6	1,526.9	10.503	SF
EXIST VERT DYER #41-7 - Wellbore #1 - Design #1	6,985.6	6,857.2	2,199.1	2,045.8	14.339	CC
EXIST VERT DYER #41-7 - Wellbore #1 - Design #1	7,050.0	6,893.1	2,199.8	2,045.1	14.224	ES
EXIST VERT DYER #41-7 - Wellbore #1 - Design #1	7,775.6	6,994.7	2,326.8	2,156.4	13.658	SF
EXIST VERT EHRlich #1 - Wellbore #1 - Design #1	6,315.7	6,251.8	3,518.2	3,379.0	25.267	CC, ES
EXIST VERT EHRlich #1 - Wellbore #1 - Design #1	6,397.6	6,333.6	3,522.9	3,382.6	25.113	SF
EXIST VERT EHRlich #2 - Wellbore #1 - Design #1	6,315.7	6,242.8	3,906.0	3,767.0	28.105	CC
EXIST VERT EHRlich #2 - Wellbore #1 - Design #1	6,350.0	6,277.1	3,906.7	3,766.6	27.884	ES
EXIST VERT EHRlich #2 - Wellbore #1 - Design #1	6,400.0	6,326.9	3,910.4	3,769.8	27.818	SF
EXIST VERT EHRlich #22-7 - Wellbore #1 - Design #1	6,315.7	6,259.8	2,607.9	2,468.5	18.702	CC, ES
EXIST VERT EHRlich #22-7 - Wellbore #1 - Design #1	6,397.6	6,341.6	2,612.6	2,472.3	18.630	SF
EXIST VERT EHRlich #24-7 - Wellbore #1 - Design #1	6,315.7	6,245.8	2,908.5	2,769.6	20.928	CC
EXIST VERT EHRlich #24-7 - Wellbore #1 - Design #1	6,350.0	6,280.1	2,909.2	2,769.0	20.752	ES
EXIST VERT EHRlich #24-7 - Wellbore #1 - Design #1	6,400.0	6,329.9	2,912.5	2,771.7	20.689	SF
EXIST VERT EHRlich #32-7 - Wellbore #1 - Design #1	6,315.7	6,262.8	1,084.5	944.8	7.763	CC, ES
EXIST VERT EHRlich #32-7 - Wellbore #1 - Design #1	6,397.6	6,344.6	1,088.1	947.7	7.750	SF
EXIST VERT EHRlich #4 - Wellbore #1 - Design #1	6,315.7	6,256.8	3,542.1	3,402.6	25.394	CC, ES
EXIST VERT EHRlich #4 - Wellbore #1 - Design #1	6,397.6	6,338.6	3,546.6	3,406.4	25.301	SF
EXIST VERT ERICKSON A #8-1 - Wellbore #1 - Design	12,314.3	4,843.0	3,184.9	3,002.3	17.441	CC
EXIST VERT ERICKSON A #8-1 - Wellbore #1 - Design	12,400.0	4,843.0	3,186.0	3,001.7	17.280	ES
EXIST VERT ERICKSON A #8-1 - Wellbore #1 - Design	12,543.4	4,843.0	3,193.1	3,005.8	17.043	SF

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

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Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
SE SE SEC. 7 T6N R64W 6th P.M.						
EXIST VERT ERICKSON A #8-17 - Wellbore #1 - Design	11,877.3	7,070.6	1,592.7	1,311.4	5.662	CC
EXIST VERT ERICKSON A #8-17 - Wellbore #1 - Design	11,909.4	7,070.4	1,593.0	1,310.8	5.645	ES
EXIST VERT ERICKSON A #8-17 - Wellbore #1 - Design	12,106.3	7,069.0	1,609.1	1,321.4	5.594	SF
EXIST VERT ERICKSON A #8-2 - Wellbore #1 - Design	10,964.5	7,051.9	2,272.3	2,016.7	8.887	CC
EXIST VERT ERICKSON A #8-2 - Wellbore #1 - Design	11,023.6	7,051.5	2,273.1	2,015.8	8.833	ES
EXIST VERT ERICKSON A #8-2 - Wellbore #1 - Design	11,515.7	7,048.1	2,338.3	2,067.3	8.629	SF
EXIST VERT ERICKSON A #8-7 - Wellbore #1 - Design	11,162.1	7,049.5	957.2	696.0	3.665	CC
EXIST VERT ERICKSON A #8-7 - Wellbore #1 - Design	11,200.0	7,049.3	957.9	695.7	3.653	ES
EXIST VERT ERICKSON A #8-7 - Wellbore #1 - Design	11,220.4	7,049.1	959.0	696.2	3.649	SF
EXIST VERT ERICKSON A #8-8 - Wellbore #1 - Design	12,492.3	7,078.4	969.1	670.6	3.246	CC
EXIST VERT ERICKSON A #8-8 - Wellbore #1 - Design	12,500.0	7,078.3	969.2	670.4	3.244	ES
EXIST VERT ERICKSON A #8-8 - Wellbore #1 - Design	12,543.4	7,078.0	970.5	670.5	3.236	SF
EXIST VERT FRANCEN #23-8 - Wellbore #1 - Design #1	9,513.1	7,032.9	606.0	389.6	2.800	CC, ES
EXIST VERT FRANCEN #23-8 - Wellbore #1 - Design #1	9,547.2	7,032.6	606.9	389.6	2.793	SF
EXIST VERT FRANCEN #24-8 - Wellbore #1 - Design #1	9,829.0	4,645.0	2,933.6	2,816.2	24.990	CC
EXIST VERT FRANCEN #24-8 - Wellbore #1 - Design #1	9,900.0	4,645.0	2,934.4	2,815.7	24.719	ES
EXIST VERT FRANCEN #24-8 - Wellbore #1 - Design #1	11,220.4	4,645.0	3,246.8	3,103.3	22.632	SF
EXIST VERT FRANCIS #11-8 - Wellbore #1 - Design #1	8,153.0	7,017.2	2,399.6	2,219.8	13.351	CC
EXIST VERT FRANCIS #11-8 - Wellbore #1 - Design #1	8,200.0	7,016.9	2,400.0	2,219.1	13.265	ES
EXIST VERT FRANCIS #11-8 - Wellbore #1 - Design #1	9,000.0	7,011.4	2,544.7	2,342.5	12.587	SF
EXIST VERT FRANCIS #21-8 - Wellbore #1 - Design #1	9,504.5	7,027.9	2,443.4	2,227.3	11.307	CC
EXIST VERT FRANCIS #21-8 - Wellbore #1 - Design #1	9,547.2	7,027.6	2,443.8	2,226.5	11.248	ES
EXIST VERT FRANCIS #21-8 - Wellbore #1 - Design #1	10,236.2	7,022.9	2,550.6	2,314.4	10.798	SF
EXIST VERT FRANCIS #22-8 - Wellbore #1 - Design #1	9,504.7	7,032.9	742.0	525.9	3.433	CC, ES
EXIST VERT FRANCIS #22-8 - Wellbore #1 - Design #1	9,600.0	7,032.3	748.1	529.3	3.420	SF
EXIST VERT KREPS #1 - Wellbore #1 - Design #1	6,315.7	6,263.8	2,436.2	2,296.3	17.414	CC, ES
EXIST VERT KREPS #1 - Wellbore #1 - Design #1	6,600.0	6,540.7	2,458.0	2,314.0	17.070	SF
EXIST VERT KREPS #11-7 - Wellbore #1 - Design #1	6,315.7	6,276.8	4,169.7	4,029.7	29.772	CC, ES
EXIST VERT KREPS #11-7 - Wellbore #1 - Design #1	7,445.6	6,993.0	4,794.7	4,631.7	29.419	SF
EXIST VERT KREPS #21-7 - Wellbore #1 - Design #1	6,315.7	6,280.8	3,304.0	3,163.8	23.578	CC, ES
EXIST VERT KREPS #21-7 - Wellbore #1 - Design #1	6,450.0	6,414.4	3,313.0	3,171.8	23.461	SF
EXIST VERT MHS #8-33 - Wellbore #1 - Design #1	8,277.5	7,019.3	1,530.3	1,347.4	8.364	CC
EXIST VERT MHS #8-33 - Wellbore #1 - Design #1	8,300.0	7,019.2	1,530.5	1,346.9	8.338	ES
EXIST VERT MHS #8-33 - Wellbore #1 - Design #1	8,600.0	7,017.1	1,563.9	1,372.5	8.169	SF
EXIST VERT MILE HIGH SHEEP #8-32 - Wellbore #1 - I	8,155.9	7,028.2	595.1	415.2	3.308	CC
EXIST VERT MILE HIGH SHEEP #8-32 - Wellbore #1 - I	8,169.3	7,028.1	595.3	415.0	3.302	ES
EXIST VERT MILE HIGH SHEEP #8-32 - Wellbore #1 - I	8,200.0	7,027.9	596.8	415.7	3.296	SF
EXIST VERT MILE HIGH SHEEP #8-35 - Wellbore #1 - I	8,748.3	7,034.1	1,065.1	869.5	5.445	CC
EXIST VERT MILE HIGH SHEEP #8-35 - Wellbore #1 - I	8,759.8	7,034.0	1,065.1	869.2	5.437	ES
EXIST VERT MILE HIGH SHEEP #8-35 - Wellbore #1 - I	8,900.0	7,033.1	1,075.8	876.1	5.388	SF
EXIST VERT ROY CARLSON #43-7 - Wellbore #1 - Des	1,060.0	1,050.0	306.6	284.0	13.579	CC
EXIST VERT ROY CARLSON #43-7 - Wellbore #1 - Des	7,050.0	6,898.1	424.2	269.7	2.746	ES, SF
EXIST VERT UHRICH #33-8 - Wellbore #1 - Design #1	11,026.1	7,042.5	583.9	328.6	2.287	CC, ES
EXIST VERT UHRICH #33-8 - Wellbore #1 - Design #1	11,100.0	7,042.0	588.5	331.2	2.287	SF
EXIST VERT UHRICH #34-8 - Wellbore #1 - Design #1	11,043.0	7,012.4	1,939.2	1,682.7	7.561	CC
EXIST VERT UHRICH #34-8 - Wellbore #1 - Design #1	11,100.0	7,012.0	1,940.0	1,681.9	7.518	ES
EXIST VERT UHRICH #34-8 - Wellbore #1 - Design #1	11,417.3	7,009.8	1,974.9	1,708.1	7.401	SF
EXIST VERT UHRICH #43-8 - Wellbore #1 - Design #1	12,543.4	7,057.0	572.8	275.1	1.924	CC, ES, SF
EXIST VERT UHRICH #44-8 - Wellbore #1 - Design #1	12,339.2	7,031.4	1,938.9	1,647.1	6.646	CC
EXIST VERT UHRICH #44-8 - Wellbore #1 - Design #1	12,400.0	7,031.0	1,939.9	1,646.4	6.610	ES
EXIST VERT UHRICH #44-8 - Wellbore #1 - Design #1	12,543.4	7,030.0	1,949.6	1,652.2	6.555	SF

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