

# **PDC ENERGY**

**WELD COUNTY, COLORADO  
SE SE SEC. 7 T6N R64W 6th P.M.  
ELVERA 7D-404**

**ORIGINAL WELLBORE  
PROPOSAL #1**

## **Anticollision Report**

**03 March, 2016**



# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well ELVERA 7D-404
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4748.0usft
<b>Reference Site:</b>	SE SE SEC. 7 T6N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4748.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ELVERA 7D-404	<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>	<b>Date</b> 03/03/2016			
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.0	12,357.0	PROPOSAL #1 (ORIGINAL WELLBORE)	MWD	MWD - Standard

<b>Summary</b>						
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						
NE NE SEC. 7 T6N R64W 6th P.M.						
BISHOP 7C-204 - ORIGINAL WELLBORE - PROPOSAL	6,460.2	6,493.3	2,267.9	2,208.9	38.417	CC
BISHOP 7C-204 - ORIGINAL WELLBORE - PROPOSAL	12,358.0	12,236.9	2,272.5	1,982.3	7.830	ES, SF
BISHOP 7C-232 - ORIGINAL WELLBORE - PROPOSAL	7,050.0	7,792.7	2,318.2	2,255.8	37.174	ES
BISHOP 7C-232 - ORIGINAL WELLBORE - PROPOSAL	7,140.3	7,724.8	2,317.4	2,256.9	38.307	CC
BISHOP 7C-232 - ORIGINAL WELLBORE - PROPOSAL	11,700.0	6,350.0	4,186.1	4,051.1	30.997	SF
BISHOP 7C-332 - ORIGINAL WELLBORE - PROPOSAL	7,150.0	7,813.9	2,115.3	2,054.8	34.960	ES
BISHOP 7C-332 - ORIGINAL WELLBORE - PROPOSAL	7,281.4	7,702.0	2,114.2	2,056.5	36.620	CC
BISHOP 7C-332 - ORIGINAL WELLBORE - PROPOSAL	11,023.6	6,450.0	3,514.9	3,397.1	29.841	SF
BISHOP 7C-334 - ORIGINAL WELLBORE - PROPOSAL	6,507.6	6,544.3	2,062.1	2,002.5	34.619	CC
BISHOP 7C-334 - ORIGINAL WELLBORE - PROPOSAL	12,358.0	12,332.8	2,062.8	1,772.5	7.108	ES, SF
BISHOP 7C-402 - ORIGINAL WELLBORE - PROPOSAL	7,200.0	7,793.6	2,538.3	2,479.0	42.800	ES
BISHOP 7C-402 - ORIGINAL WELLBORE - PROPOSAL	7,497.0	7,518.8	2,536.0	2,482.2	47.145	CC
BISHOP 7C-402 - ORIGINAL WELLBORE - PROPOSAL	11,811.0	6,450.0	4,382.4	4,241.8	31.156	SF
BISHOP 7C-404 - ORIGINAL WELLBORE - PROPOSAL	7,681.4	7,692.1	2,487.5	2,426.3	40.690	CC
BISHOP 7C-404 - ORIGINAL WELLBORE - PROPOSAL	12,358.0	12,356.2	2,488.0	2,197.6	8.568	ES, SF
BISHOP 7S-214 - ORIGINAL WELLBORE - PROPOSAL	6,460.3	6,537.7	1,799.8	1,740.0	30.077	CC
BISHOP 7S-214 - ORIGINAL WELLBORE - PROPOSAL	12,358.0	12,290.0	1,805.0	1,515.3	6.231	ES, SF

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<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well ELVERA 7D-404
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4748.0usft
<b>Reference Site:</b>	SE SE SEC. 7 T6N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4748.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ELVERA 7D-404	<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
NE SE SEC. 7 T6N R64W 6th P.M.						
CARLSON 7S-202 - ORIGINAL WELLBORE - PROPOS	1,219.0	1,213.2	1,092.2	1,087.0	211.454	CC, ES
CARLSON 7S-202 - ORIGINAL WELLBORE - PROPOS	6,700.0	7,974.6	1,399.9	1,333.0	20.914	SF
CARLSON 7S-204 - ORIGINAL WELLBORE - PROPOS	1,482.6	1,438.9	1,099.5	1,093.2	175.743	CC
CARLSON 7S-204 - ORIGINAL WELLBORE - PROPOS	12,358.0	12,203.7	1,316.1	1,027.8	4.564	ES, SF
CARLSON 7S-212 - ORIGINAL WELLBORE - PROPOS	1,566.4	1,519.7	1,088.8	1,082.1	162.687	CC
CARLSON 7S-212 - ORIGINAL WELLBORE - PROPOS	1,600.0	1,543.9	1,088.9	1,082.0	159.156	ES
CARLSON 7S-212 - ORIGINAL WELLBORE - PROPOS	6,600.0	8,092.7	1,901.3	1,833.1	27.888	SF
CARLSON 7S-312 - ORIGINAL WELLBORE - PROPOS	1,397.9	1,370.4	1,091.2	1,085.3	184.465	CC
CARLSON 7S-312 - ORIGINAL WELLBORE - PROPOS	1,400.0	1,372.0	1,091.2	1,085.3	184.203	ES
CARLSON 7S-312 - ORIGINAL WELLBORE - PROPOS	6,650.0	8,121.5	1,679.3	1,611.7	24.855	SF
CARLSON 7S-314 - ORIGINAL WELLBORE - PROPOS	1,575.0	1,522.1	1,093.5	1,086.8	163.153	CC
CARLSON 7S-314 - ORIGINAL WELLBORE - PROPOS	1,673.2	1,600.0	1,093.8	1,086.7	152.263	ES
CARLSON 7S-314 - ORIGINAL WELLBORE - PROPOS	12,358.0	12,305.7	1,559.8	1,270.5	5.390	SF
CARLSON 7S-404 - ORIGINAL WELLBORE - PROPOS	8,911.1	8,850.3	1,033.3	927.8	9.792	CC
CARLSON 7S-404 - ORIGINAL WELLBORE - PROPOS	12,358.0	12,291.2	1,033.8	744.6	3.575	ES, SF
CARLSON 7S-432 - ORIGINAL WELLBORE - PROPOS	6,900.0	8,011.3	1,035.6	972.1	16.314	SF
CARLSON 7S-432 - ORIGINAL WELLBORE - PROPOS	7,350.0	7,668.4	985.5	929.4	17.561	ES
CARLSON 7S-432 - ORIGINAL WELLBORE - PROPOS	7,510.3	7,513.8	984.7	931.1	18.395	CC

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<b>Reference Site:</b>	SE SE SEC. 7 T6N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4748.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	ELVERA 7D-404	<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	8,280.6	7,002.0	1,862.8	1,682.9	10.356	CC
ABDN VERT DYER #42-7 - Wellbore #1 - Design #1	8,300.0	7,002.0	1,862.9	1,682.7	10.336	ES
ABDN VERT DYER #42-7 - Wellbore #1 - Design #1	8,700.0	7,002.0	1,909.4	1,720.7	10.116	SF
ABDN VERT EHRlich #3 - Wellbore #1 - Design #1	10,534.7	6,980.0	508.0	272.9	2.161	CC, ES, SF
ABDN VERT GRADY #1 - Wellbore #1 - Design #1	6,495.3	6,322.8	1,873.8	1,730.1	13.043	CC
ABDN VERT GRADY #1 - Wellbore #1 - Design #1	6,650.0	6,476.3	1,874.9	1,716.2	11.816	ES
ABDN VERT GRADY #1 - Wellbore #1 - Design #1	7,050.0	6,823.7	1,897.5	1,733.6	11.580	SF
ELVERA 7D-212 - ORIGINAL WELLBORE - PROPOSAL	1,061.0	1,060.0	90.1	85.6	20.067	CC
ELVERA 7D-212 - ORIGINAL WELLBORE - PROPOSAL	1,082.7	1,081.7	90.2	85.6	19.669	ES
ELVERA 7D-212 - ORIGINAL WELLBORE - PROPOSAL	7,050.0	7,800.6	470.4	406.7	7.393	SF
ELVERA 7D-312 - ORIGINAL WELLBORE - PROPOSAL	1,061.0	1,060.0	75.1	70.6	16.723	CC
ELVERA 7D-312 - ORIGINAL WELLBORE - PROPOSAL	1,082.7	1,081.7	75.2	70.6	16.395	ES
ELVERA 7D-312 - ORIGINAL WELLBORE - PROPOSAL	7,250.0	7,699.8	184.8	125.0	3.093	SF
ELVERA 7D-314 - ORIGINAL WELLBORE - PROPOSAL	1,061.0	1,061.0	15.0	10.5	3.344	CC
ELVERA 7D-314 - ORIGINAL WELLBORE - PROPOSAL	12,358.0	12,308.1	247.1	-27.6	0.900	Level 1, ES, SF
ELVERA 7D-402 - ORIGINAL WELLBORE - PROPOSAL	7,480.3	7,529.9	48.6	-6.7	0.879	Level 1, ES, SF
ELVERA 7D-402 - ORIGINAL WELLBORE - PROPOSAL	7,503.9	7,506.7	48.5	-6.4	0.883	Level 1, CC
ELVERA 7S-234 - ORIGINAL WELLBORE - PROPOSAL	1,061.0	1,061.0	30.0	25.5	6.686	CC
ELVERA 7S-234 - ORIGINAL WELLBORE - PROPOSAL	1,082.7	1,082.7	30.1	25.5	6.565	ES
ELVERA 7S-234 - ORIGINAL WELLBORE - PROPOSAL	12,358.0	12,285.2	547.0	268.9	1.967	SF
ELVERA 7S-332 - ORIGINAL WELLBORE - PROPOSAL	1,061.0	1,060.0	105.1	100.6	23.411	CC
ELVERA 7S-332 - ORIGINAL WELLBORE - PROPOSAL	1,082.7	1,081.7	105.2	100.6	22.944	ES
ELVERA 7S-332 - ORIGINAL WELLBORE - PROPOSAL	7,050.0	7,931.2	734.3	671.1	11.633	SF
ELVERA 7S-334 - ORIGINAL WELLBORE - PROPOSAL	1,061.0	1,060.0	45.1	40.6	10.034	CC
ELVERA 7S-334 - ORIGINAL WELLBORE - PROPOSAL	1,082.7	1,081.7	45.1	40.6	9.844	ES
ELVERA 7S-334 - ORIGINAL WELLBORE - PROPOSAL	12,358.0	12,436.6	780.5	491.6	2.702	SF
EXIST VERT CARLSON #33-7 - Wellbore #1 - Design #1	9,121.3	6,967.0	611.7	413.4	3.084	CC, ES
EXIST VERT CARLSON #33-7 - Wellbore #1 - Design #1	9,153.5	6,967.0	612.6	413.4	3.076	SF
EXIST VERT CARLSON #34-7 - Wellbore #1 - Design #1	9,335.6	6,980.0	761.7	557.9	3.737	CC
EXIST VERT CARLSON #34-7 - Wellbore #1 - Design #1	9,350.4	6,980.0	761.9	557.7	3.731	ES
EXIST VERT CARLSON #34-7 - Wellbore #1 - Design #1	9,400.0	6,980.0	764.4	559.0	3.721	SF
EXIST VERT CARLSON #44-7 - Wellbore #1 - Design #1	1,820.6	1,801.7	402.4	362.5	10.084	CC
EXIST VERT CARLSON #44-7 - Wellbore #1 - Design #1	1,954.9	1,930.5	404.2	361.1	9.378	ES
EXIST VERT CARLSON #44-7 - Wellbore #1 - Design #1	8,100.0	6,998.0	652.6	476.1	3.698	SF
EXIST VERT DYER #41-7 - Wellbore #1 - Design #1	8,008.9	7,005.0	3,183.8	3,008.5	18.160	CC
EXIST VERT DYER #41-7 - Wellbore #1 - Design #1	8,070.8	7,005.0	3,184.4	3,008.1	18.058	ES
EXIST VERT DYER #41-7 - Wellbore #1 - Design #1	9,547.2	7,005.0	3,536.0	3,326.3	16.865	SF
EXIST VERT EHRlich #1 - Wellbore #1 - Design #1	11,799.6	6,976.0	622.9	353.5	2.312	CC
EXIST VERT EHRlich #1 - Wellbore #1 - Design #1	11,811.0	6,976.0	623.0	353.3	2.310	ES, SF
EXIST VERT EHRlich #2 - Wellbore #1 - Design #1	11,746.9	6,967.0	852.6	584.7	3.182	CC, ES
EXIST VERT EHRlich #2 - Wellbore #1 - Design #1	11,811.0	6,967.0	855.0	585.3	3.171	SF
EXIST VERT EHRlich #22-7 - Wellbore #1 - Design #1	10,890.1	6,984.0	1,289.5	1,044.8	5.269	CC
EXIST VERT EHRlich #22-7 - Wellbore #1 - Design #1	10,925.2	6,984.0	1,290.0	1,044.3	5.251	ES
EXIST VERT EHRlich #22-7 - Wellbore #1 - Design #1	11,100.0	6,984.0	1,306.5	1,056.1	5.217	SF
EXIST VERT EHRlich #24-7 - Wellbore #1 - Design #1	10,617.7	6,970.0	772.6	535.3	3.256	CC
EXIST VERT EHRlich #24-7 - Wellbore #1 - Design #1	10,629.9	6,970.0	772.7	535.1	3.252	ES
EXIST VERT EHRlich #24-7 - Wellbore #1 - Design #1	10,700.0	6,970.0	776.9	537.5	3.244	SF
EXIST VERT EHRlich #32-7 - Wellbore #1 - Design #1	9,126.9	6,987.0	1,686.5	1,487.8	8.488	CC
EXIST VERT EHRlich #32-7 - Wellbore #1 - Design #1	9,153.5	6,987.0	1,686.7	1,487.3	8.461	ES
EXIST VERT EHRlich #32-7 - Wellbore #1 - Design #1	9,500.0	6,987.0	1,727.3	1,519.2	8.303	SF
EXIST VERT EHRlich #4 - Wellbore #1 - Design #1	11,738.2	6,981.0	1,836.1	1,568.3	6.856	CC
EXIST VERT EHRlich #4 - Wellbore #1 - Design #1	11,800.0	6,981.0	1,837.1	1,567.6	6.817	ES
EXIST VERT EHRlich #4 - Wellbore #1 - Design #1	12,100.0	6,981.0	1,871.4	1,593.7	6.738	SF

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>	SE SE SEC. 7 T6N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4748.0usft
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<b>Reference Well:</b>	ELVERA 7D-404	<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
Offset Well - Wellbore - Design						
SE SE SEC. 7 T6N R64W 6th P.M.						
EXIST VERT ERICKSON A #8-1 - Wellbore #1 - Design	5,903.1	4,843.0	5,439.5	5,327.1	48.393	CC
EXIST VERT ERICKSON A #8-1 - Wellbore #1 - Design	5,905.5	4,843.0	5,439.5	5,327.1	48.385	ES
EXIST VERT ERICKSON A #8-1 - Wellbore #1 - Design	6,465.3	4,843.0	5,517.5	5,394.9	45.011	SF
EXIST VERT ERICKSON A #8-17 - Wellbore #1 - Design	6,495.3	6,392.8	4,555.9	4,401.6	29.531	CC, ES, SF
EXIST VERT ERICKSON A #8-2 - Wellbore #1 - Design	6,495.3	6,367.8	4,323.9	4,172.5	28.557	CC, ES
EXIST VERT ERICKSON A #8-2 - Wellbore #1 - Design	7,578.7	7,082.8	4,794.7	4,625.4	28.317	SF
EXIST VERT ERICKSON A #8-7 - Wellbore #1 - Design	6,495.3	6,366.8	3,608.7	3,454.4	23.390	CC, ES, SF
EXIST VERT ERICKSON A #8-8 - Wellbore #1 - Design	6,495.3	6,404.8	4,788.5	4,632.9	30.774	CC, ES, SF
EXIST VERT FRANCEN #23-8 - Wellbore #1 - Design #1	6,495.3	6,338.8	1,443.3	1,286.8	9.225	CC, ES, SF
EXIST VERT FRANCEN #24-8 - Wellbore #1 - Design #1	5,463.1	4,645.0	2,126.4	2,017.2	19.485	CC, ES
EXIST VERT FRANCEN #24-8 - Wellbore #1 - Design #1	5,708.6	4,645.0	2,143.1	2,032.2	19.310	SF
EXIST VERT FRANCIS #11-8 - Wellbore #1 - Design #1	6,495.3	6,313.8	3,384.4	3,241.2	23.642	CC
EXIST VERT FRANCIS #11-8 - Wellbore #1 - Design #1	6,850.0	6,654.2	3,386.3	3,224.2	20.895	ES
EXIST VERT FRANCIS #11-8 - Wellbore #1 - Design #1	7,578.7	7,028.8	3,457.3	3,287.2	20.319	SF
EXIST VERT FRANCIS #21-8 - Wellbore #1 - Design #1	6,495.3	6,333.8	3,696.9	3,549.3	25.044	CC
EXIST VERT FRANCIS #21-8 - Wellbore #1 - Design #1	6,550.0	6,388.4	3,697.7	3,543.5	23.980	ES
EXIST VERT FRANCIS #21-8 - Wellbore #1 - Design #1	7,500.0	7,039.9	3,959.0	3,790.2	23.456	SF
EXIST VERT FRANCIS #22-8 - Wellbore #1 - Design #1	6,495.3	6,338.8	2,213.0	2,061.4	14.597	CC, ES, SF
EXIST VERT KREPS #1 - Wellbore #1 - Design #1	9,233.6	6,988.0	3,234.8	3,033.3	16.047	CC
EXIST VERT KREPS #1 - Wellbore #1 - Design #1	9,300.0	6,988.0	3,235.5	3,032.3	15.920	ES
EXIST VERT KREPS #1 - Wellbore #1 - Design #1	10,629.9	6,988.0	3,523.3	3,285.3	14.804	SF
EXIST VERT KREPS #11-7 - Wellbore #1 - Design #1	11,824.2	7,001.0	3,213.2	2,942.6	11.874	CC
EXIST VERT KREPS #11-7 - Wellbore #1 - Design #1	11,909.4	7,001.0	3,214.3	2,941.4	11.777	ES
EXIST VERT KREPS #11-7 - Wellbore #1 - Design #1	12,358.0	7,001.0	3,257.2	2,972.0	11.418	SF
EXIST VERT KREPS #21-7 - Wellbore #1 - Design #1	10,681.3	7,005.0	3,275.0	3,035.5	13.671	CC
EXIST VERT KREPS #21-7 - Wellbore #1 - Design #1	10,800.0	7,005.0	3,277.2	3,034.4	13.500	ES
EXIST VERT KREPS #21-7 - Wellbore #1 - Design #1	11,909.4	7,005.0	3,497.7	3,224.7	12.813	SF
EXIST VERT MHS #8-33 - Wellbore #1 - Design #1	6,495.3	6,316.8	567.8	425.2	3.982	CC
EXIST VERT MHS #8-33 - Wellbore #1 - Design #1	6,550.0	6,371.4	568.4	411.1	3.614	ES
EXIST VERT MHS #8-33 - Wellbore #1 - Design #1	6,600.0	6,421.1	570.0	411.8	3.604	SF
EXIST VERT MILE HIGH SHEEP #8-32 - Wellbore #1 - I	6,495.3	6,324.8	391.2	247.2	2.717	CC
EXIST VERT MILE HIGH SHEEP #8-32 - Wellbore #1 - I	6,600.0	6,429.1	391.9	234.4	2.488	ES
EXIST VERT MILE HIGH SHEEP #8-32 - Wellbore #1 - I	6,650.0	6,478.3	393.0	234.7	2.483	SF
EXIST VERT MILE HIGH SHEEP #8-35 - Wellbore #1 - I	6,495.3	6,334.8	633.0	477.6	4.073	CC, ES, SF
EXIST VERT ROY CARLSON #43-7 - Wellbore #1 - Des	7,970.0	7,010.0	560.7	386.2	3.213	CC
EXIST VERT ROY CARLSON #43-7 - Wellbore #1 - Des	7,972.4	7,010.0	560.7	386.2	3.212	ES
EXIST VERT ROY CARLSON #43-7 - Wellbore #1 - Des	8,000.0	7,010.0	561.5	386.6	3.209	SF
EXIST VERT UHRICH #33-8 - Wellbore #1 - Design #1	6,495.3	6,358.8	2,933.2	2,779.5	19.088	CC, ES, SF
EXIST VERT UHRICH #34-8 - Wellbore #1 - Design #1	6,495.3	6,328.8	3,074.5	2,922.7	20.254	CC, ES, SF
EXIST VERT UHRICH #43-8 - Wellbore #1 - Design #1	6,495.3	6,383.8	4,454.4	4,300.5	28.953	CC, ES, SF
EXIST VERT UHRICH #44-8 - Wellbore #1 - Design #1	6,495.3	6,356.8	4,325.2	4,173.3	28.470	CC, ES, SF

Offset Design												NE NE SEC. 7 T6N R64W 6th P.M. - BISHOP 7C-204 - ORIGINAL WELLBORE - PROPOSAL #1		Offset Site Error:		0.0 usft	
Survey Program:												0-MWD		Offset Well Error:		0.0 usft	
Reference		Offset		Semi Major Axis		Distance											
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning				
0.0	0.0	9.0	9.0	0.0	0.0	1.14	2,973.9	59.2	2,974.5								
98.4	98.4	107.4	107.4	0.1	0.1	1.14	2,973.9	59.2	2,974.5	2,974.3	0.19	N/A					
100.0	100.0	109.0	109.0	0.1	0.1	1.14	2,973.9	59.2	2,974.5	2,974.3	0.19	N/A					
196.8	196.8	205.8	205.8	0.3	0.3	1.14	2,973.9	59.2	2,974.5	2,973.9	0.63	4,731.450					

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