

# **PDC ENERGY**

**WELD COUNTY, COLORADO  
NE SE SEC. 7 T6N R64W 6th P.M.  
CARLSON 7S-404**

**ORIGINAL WELLBORE  
PROPOSAL #1**

## **Anticollision Report**

**04 March, 2016**



# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well CARLSON 7S-404
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4763.0usft
<b>Reference Site:</b>	NE SE SEC. 7 T6N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4763.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	CARLSON 7S-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>	04/03/2016		
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.0	12,291.2	PROPOSAL #1 (ORIGINAL WELLBORE)	MWD	MWD - Standard

Summary						
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	6,414.1	6,492.8	1,234.6	1,200.5	36.186	CC
BISHOP 7C-204 - ORIGINAL WELLBORE - PROPOSAL	12,291.2	12,236.9	1,247.5	959.9	4.337	ES, SF
BISHOP 7C-232 - ORIGINAL WELLBORE - PROPOSAL	6,692.9	7,951.4	1,323.6	1,260.1	20.859	SF
BISHOP 7C-232 - ORIGINAL WELLBORE - PROPOSAL	7,050.0	7,746.7	1,284.5	1,227.1	22.354	ES
BISHOP 7C-232 - ORIGINAL WELLBORE - PROPOSAL	7,103.1	7,705.0	1,284.1	1,227.7	22.788	CC
BISHOP 7C-332 - ORIGINAL WELLBORE - PROPOSAL	6,750.0	8,026.1	1,133.8	1,070.9	18.005	SF
BISHOP 7C-332 - ORIGINAL WELLBORE - PROPOSAL	7,150.0	7,763.0	1,082.0	1,026.4	19.452	ES
BISHOP 7C-332 - ORIGINAL WELLBORE - PROPOSAL	7,251.7	7,673.4	1,080.9	1,027.4	20.192	CC
BISHOP 7C-334 - ORIGINAL WELLBORE - PROPOSAL	6,551.6	6,633.7	1,028.7	973.0	18.448	CC
BISHOP 7C-334 - ORIGINAL WELLBORE - PROPOSAL	12,291.2	12,332.8	1,032.6	743.7	3.574	ES, SF
BISHOP 7C-402 - ORIGINAL WELLBORE - PROPOSAL	6,650.0	8,080.5	1,585.2	1,521.5	24.879	SF
BISHOP 7C-402 - ORIGINAL WELLBORE - PROPOSAL	7,250.0	7,696.1	1,504.2	1,450.7	28.129	ES
BISHOP 7C-402 - ORIGINAL WELLBORE - PROPOSAL	7,557.6	7,398.0	1,502.7	1,453.8	30.760	CC
BISHOP 7C-404 - ORIGINAL WELLBORE - PROPOSAL	6,439.6	6,499.6	1,454.2	1,421.5	44.458	CC
BISHOP 7C-404 - ORIGINAL WELLBORE - PROPOSAL	12,291.2	12,356.2	1,454.3	1,164.4	5.015	ES, SF
BISHOP 7S-214 - ORIGINAL WELLBORE - PROPOSAL	6,420.6	6,543.4	766.5	727.1	19.459	CC
BISHOP 7S-214 - ORIGINAL WELLBORE - PROPOSAL	12,291.2	12,290.0	785.6	502.1	2.771	ES, SF
NE SE SEC. 7 T6N R64W 6th P.M.						
CARLSON 7S-202 - ORIGINAL WELLBORE - PROPOS	1,060.0	1,058.0	74.8	70.3	16.685	CC
CARLSON 7S-202 - ORIGINAL WELLBORE - PROPOS	1,082.7	1,080.7	74.9	70.3	16.343	ES
CARLSON 7S-202 - ORIGINAL WELLBORE - PROPOS	7,050.0	7,749.9	325.6	268.5	5.702	SF
CARLSON 7S-204 - ORIGINAL WELLBORE - PROPOS	1,060.0	1,059.0	15.0	10.5	3.348	CC
CARLSON 7S-204 - ORIGINAL WELLBORE - PROPOS	1,082.7	1,081.7	15.1	10.5	3.295	ES
CARLSON 7S-204 - ORIGINAL WELLBORE - PROPOS	12,291.2	12,203.7	325.8	76.1	1.305	Level 3, SF
CARLSON 7S-212 - ORIGINAL WELLBORE - PROPOS	1,060.0	1,059.0	44.8	40.3	9.981	CC
CARLSON 7S-212 - ORIGINAL WELLBORE - PROPOS	1,082.7	1,081.7	44.9	40.3	9.784	ES
CARLSON 7S-212 - ORIGINAL WELLBORE - PROPOS	1,181.1	1,180.1	47.3	42.3	9.445	SF
CARLSON 7S-312 - ORIGINAL WELLBORE - PROPOS	1,060.0	1,058.0	59.8	55.3	13.336	CC
CARLSON 7S-312 - ORIGINAL WELLBORE - PROPOS	1,082.7	1,080.7	59.9	55.3	13.066	ES
CARLSON 7S-312 - ORIGINAL WELLBORE - PROPOS	7,086.6	7,853.1	582.1	526.4	10.461	SF
CARLSON 7S-314 - ORIGINAL WELLBORE - PROPOS	1,060.0	1,058.0	30.0	25.6	6.699	CC
CARLSON 7S-314 - ORIGINAL WELLBORE - PROPOS	1,082.7	1,080.7	30.1	25.5	6.573	ES
CARLSON 7S-314 - ORIGINAL WELLBORE - PROPOS	12,291.2	12,305.7	536.7	252.9	1.891	SF
CARLSON 7S-432 - ORIGINAL WELLBORE - PROPOS	7,500.0	7,463.6	49.0	-0.4	0.992	Level 1, ES, SF
CARLSON 7S-432 - ORIGINAL WELLBORE - PROPOS	7,585.7	7,377.9	48.6	0.1	1.001	Level 2, CC

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 CARLSON 7S-404
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4763.0usft
<b>Reference Site:</b>	NE SE SEC. 7 T6N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4763.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	CARLSON 7S-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	8,219.7	6,997.3	829.5	652.0	4.672	CC, ES
ABDN VERT DYER #42-7 - Wellbore #1 - Design #1	8,300.0	6,998.1	833.4	654.1	4.649	SF
ABDN VERT EHRLICH #3 - Wellbore #1 - Design #1	10,474.0	6,996.8	525.3	290.5	2.237	CC
ABDN VERT EHRLICH #3 - Wellbore #1 - Design #1	10,500.0	6,997.0	525.9	290.4	2.233	ES, SF
ABDN VERT GRADY #1 - Wellbore #1 - Design #1	6,439.6	6,311.8	845.7	702.7	5.915	CC
ABDN VERT GRADY #1 - Wellbore #1 - Design #1	6,550.0	6,421.8	846.9	693.4	5.515	ES
ABDN VERT GRADY #1 - Wellbore #1 - Design #1	6,692.9	6,559.9	853.2	697.5	5.479	SF
ELVERA 7D-212 - ORIGINAL WELLBORE - PROPOSAL	6,889.7	7,863.8	579.8	516.4	9.140	SF
ELVERA 7D-212 - ORIGINAL WELLBORE - PROPOSAL	7,050.0	7,754.6	564.9	505.3	9.478	ES
ELVERA 7D-212 - ORIGINAL WELLBORE - PROPOSAL	7,072.8	7,737.1	564.7	505.8	9.575	CC
ELVERA 7D-312 - ORIGINAL WELLBORE - PROPOSAL	6,850.0	7,945.7	883.9	820.4	13.913	SF
ELVERA 7D-312 - ORIGINAL WELLBORE - PROPOSAL	7,150.0	7,732.8	849.5	792.2	14.830	ES
ELVERA 7D-312 - ORIGINAL WELLBORE - PROPOSAL	7,230.0	7,663.1	848.6	793.1	15.292	CC
ELVERA 7D-314 - ORIGINAL WELLBORE - PROPOSAL	6,231.0	6,320.6	800.8	744.7	14.268	CC
ELVERA 7D-314 - ORIGINAL WELLBORE - PROPOSAL	12,291.2	12,303.4	809.9	523.7	2.830	ES, SF
ELVERA 7D-402 - ORIGINAL WELLBORE - PROPOSAL	2,161.5	2,300.0	1,034.6	1,023.9	96.541	CC
ELVERA 7D-402 - ORIGINAL WELLBORE - PROPOSAL	2,200.0	2,328.8	1,034.8	1,023.9	94.669	ES
ELVERA 7D-402 - ORIGINAL WELLBORE - PROPOSAL	6,800.0	8,015.2	1,143.1	1,079.5	17.958	SF
ELVERA 7D-404 - ORIGINAL WELLBORE - PROPOSAL	8,848.5	8,909.3	1,033.3	927.9	9.800	CC
ELVERA 7D-404 - ORIGINAL WELLBORE - PROPOSAL	12,291.2	12,352.3	1,033.8	744.8	3.577	ES, SF
ELVERA 7S-234 - ORIGINAL WELLBORE - PROPOSAL	6,155.8	6,308.2	512.3	455.5	9.031	CC
ELVERA 7S-234 - ORIGINAL WELLBORE - PROPOSAL	12,291.2	12,282.9	552.4	282.5	2.047	ES, SF
ELVERA 7S-332 - ORIGINAL WELLBORE - PROPOSAL	7,100.0	7,846.0	317.0	256.9	5.277	SF
ELVERA 7S-332 - ORIGINAL WELLBORE - PROPOSAL	7,185.0	7,774.7	310.4	252.7	5.373	ES
ELVERA 7S-332 - ORIGINAL WELLBORE - PROPOSAL	7,230.0	7,735.0	309.7	253.3	5.487	CC
ELVERA 7S-334 - ORIGINAL WELLBORE - PROPOSAL	6,306.0	6,518.7	257.1	199.5	4.463	CC
ELVERA 7S-334 - ORIGINAL WELLBORE - PROPOSAL	12,291.2	12,435.3	283.0	18.8	1.071	Level 2, ES, SF
EXIST VERT CARLSON #33-7 - Wellbore #1 - Design #1	9,060.5	6,970.3	421.5	224.4	2.139	CC, ES
EXIST VERT CARLSON #33-7 - Wellbore #1 - Design #1	9,100.0	6,970.7	423.4	225.3	2.137	SF
EXIST VERT CARLSON #34-7 - Wellbore #1 - Design #1	9,274.8	6,985.4	1,795.0	1,592.3	8.854	CC
EXIST VERT CARLSON #34-7 - Wellbore #1 - Design #1	9,300.0	6,985.6	1,795.2	1,591.8	8.827	ES
EXIST VERT CARLSON #34-7 - Wellbore #1 - Design #1	9,700.0	6,989.4	1,844.7	1,630.8	8.623	SF
EXIST VERT CARLSON #44-7 - Wellbore #1 - Design #1	1,060.0	1,035.0	1,460.7	1,438.3	65.219	CC
EXIST VERT CARLSON #44-7 - Wellbore #1 - Design #1	1,377.9	1,352.3	1,464.4	1,435.0	49.704	ES
EXIST VERT CARLSON #44-7 - Wellbore #1 - Design #1	8,400.0	6,995.0	1,727.4	1,545.9	9.521	SF
EXIST VERT DYER #41-7 - Wellbore #1 - Design #1	7,948.0	6,997.7	2,150.5	1,978.0	12.464	CC
EXIST VERT DYER #41-7 - Wellbore #1 - Design #1	7,972.4	6,998.0	2,150.7	1,977.7	12.434	ES
EXIST VERT DYER #41-7 - Wellbore #1 - Design #1	8,563.0	7,003.6	2,236.7	2,051.2	12.058	SF
EXIST VERT EHRLICH #1 - Wellbore #1 - Design #1	11,738.9	7,004.8	410.3	140.7	1.522	CC, ES, SF
EXIST VERT EHRLICH #2 - Wellbore #1 - Design #1	11,686.3	6,995.3	1,885.8	1,617.7	7.035	CC
EXIST VERT EHRLICH #2 - Wellbore #1 - Design #1	11,712.6	6,995.5	1,886.0	1,617.2	7.016	ES
EXIST VERT EHRLICH #2 - Wellbore #1 - Design #1	12,100.0	6,999.2	1,930.7	1,651.1	6.906	SF
EXIST VERT EHRLICH #22-7 - Wellbore #1 - Design #1	10,829.3	7,004.1	256.2	11.7	1.048	Level 2, CC, ES, SF
EXIST VERT EHRLICH #24-7 - Wellbore #1 - Design #1	10,557.0	6,987.5	1,805.8	1,568.9	7.620	CC
EXIST VERT EHRLICH #24-7 - Wellbore #1 - Design #1	10,600.0	6,988.0	1,806.3	1,568.2	7.585	ES
EXIST VERT EHRLICH #24-7 - Wellbore #1 - Design #1	10,925.2	6,991.0	1,843.0	1,595.9	7.459	SF
EXIST VERT EHRLICH #32-7 - Wellbore #1 - Design #1	9,066.1	6,990.4	653.2	455.8	3.308	CC, ES
EXIST VERT EHRLICH #32-7 - Wellbore #1 - Design #1	9,100.0	6,990.7	654.1	455.8	3.298	SF
EXIST VERT EHRLICH #4 - Wellbore #1 - Design #1	11,677.5	7,009.2	802.8	534.9	2.996	CC
EXIST VERT EHRLICH #4 - Wellbore #1 - Design #1	11,700.0	7,009.4	803.2	534.6	2.990	ES
EXIST VERT EHRLICH #4 - Wellbore #1 - Design #1	11,712.6	7,009.5	803.6	534.7	2.988	SF
EXIST VERT ERICKSON A #8-1 - Wellbore #1 - Design	5,835.6	4,843.0	4,888.5	4,779.4	44.824	CC, ES
EXIST VERT ERICKSON A #8-1 - Wellbore #1 - Design	6,409.6	4,843.0	4,976.2	4,856.0	41.389	SF

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<b>Reference Site:</b>	NE SE SEC. 7 T6N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4763.0usft
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<b>Reference Well:</b>	CARLSON 7S-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.						
EXIST VERT ERICKSON A #8-17 - Wellbore #1 - Design	6,439.6	6,381.8	4,066.5	3,914.9	26.824	CC, ES, SF
EXIST VERT ERICKSON A #8-2 - Wellbore #1 - Design	6,439.6	6,356.8	3,614.2	3,464.4	24.128	CC, ES, SF
EXIST VERT ERICKSON A #8-7 - Wellbore #1 - Design	6,439.6	6,355.8	3,179.4	3,027.8	20.971	CC, ES, SF
EXIST VERT ERICKSON A #8-8 - Wellbore #1 - Design	6,439.6	6,393.8	4,472.7	4,320.6	29.407	CC, ES, SF
EXIST VERT FRANCEN #23-8 - Wellbore #1 - Design #1	6,439.6	6,327.8	1,543.6	1,394.1	10.328	CC, ES, SF
EXIST VERT FRANCEN #24-8 - Wellbore #1 - Design #1	5,277.3	4,645.0	2,715.6	2,604.1	24.367	CC
EXIST VERT FRANCEN #24-8 - Wellbore #1 - Design #1	5,300.0	4,645.0	2,715.7	2,604.1	24.345	ES
EXIST VERT FRANCEN #24-8 - Wellbore #1 - Design #1	5,600.0	4,645.0	2,734.7	2,621.7	24.209	SF
EXIST VERT FRANCIS #11-8 - Wellbore #1 - Design #1	6,439.6	6,302.8	2,351.2	2,209.2	16.555	CC
EXIST VERT FRANCIS #11-8 - Wellbore #1 - Design #1	6,700.0	6,557.5	2,352.4	2,195.7	15.011	ES
EXIST VERT FRANCIS #11-8 - Wellbore #1 - Design #1	7,250.0	6,951.0	2,393.5	2,230.3	14.664	SF
EXIST VERT FRANCIS #21-8 - Wellbore #1 - Design #1	6,439.6	6,322.8	2,768.5	2,621.7	18.854	CC
EXIST VERT FRANCIS #21-8 - Wellbore #1 - Design #1	6,450.0	6,333.2	2,768.6	2,619.8	18.608	ES
EXIST VERT FRANCIS #21-8 - Wellbore #1 - Design #1	6,650.0	6,530.2	2,784.0	2,632.8	18.408	SF
EXIST VERT FRANCIS #22-8 - Wellbore #1 - Design #1	6,439.6	6,327.8	1,552.8	1,401.0	10.232	CC, ES, SF
EXIST VERT KREPS #1 - Wellbore #1 - Design #1	9,172.8	6,992.4	2,201.6	2,001.1	10.985	CC
EXIST VERT KREPS #1 - Wellbore #1 - Design #1	9,251.9	6,993.1	2,203.0	2,000.5	10.881	ES
EXIST VERT KREPS #1 - Wellbore #1 - Design #1	9,842.5	6,998.8	2,301.2	2,083.1	10.554	SF
EXIST VERT KREPS #11-7 - Wellbore #1 - Design #1	11,763.5	7,030.0	2,180.0	1,909.2	8.050	CC
EXIST VERT KREPS #11-7 - Wellbore #1 - Design #1	11,811.0	7,030.4	2,180.5	1,908.4	8.013	ES
EXIST VERT KREPS #11-7 - Wellbore #1 - Design #1	12,291.2	7,035.0	2,242.9	1,957.4	7.857	SF
EXIST VERT KREPS #21-7 - Wellbore #1 - Design #1	10,620.5	7,023.2	2,241.8	2,002.4	9.368	CC
EXIST VERT KREPS #21-7 - Wellbore #1 - Design #1	10,700.0	7,023.9	2,243.2	2,001.7	9.289	ES
EXIST VERT KREPS #21-7 - Wellbore #1 - Design #1	11,200.0	7,028.7	2,315.4	2,060.2	9.072	SF
EXIST VERT MHS #8-33 - Wellbore #1 - Design #1	5,479.4	5,360.1	1,580.8	1,450.6	12.138	CC
EXIST VERT MHS #8-33 - Wellbore #1 - Design #1	6,550.0	6,415.8	1,588.2	1,433.8	10.287	ES
EXIST VERT MHS #8-33 - Wellbore #1 - Design #1	6,889.7	6,726.9	1,607.1	1,447.7	10.088	SF
EXIST VERT MILE HIGH SHEEP #8-32 - Wellbore #1 - I	5,716.3	5,597.2	639.6	503.5	4.697	CC
EXIST VERT MILE HIGH SHEEP #8-32 - Wellbore #1 - I	6,594.5	6,467.5	646.3	491.0	4.162	ES
EXIST VERT MILE HIGH SHEEP #8-32 - Wellbore #1 - I	6,700.0	6,568.5	649.7	492.7	4.137	SF
EXIST VERT MILE HIGH SHEEP #8-35 - Wellbore #1 - I	6,439.6	6,323.8	1,281.1	1,137.8	8.943	CC
EXIST VERT MILE HIGH SHEEP #8-35 - Wellbore #1 - I	6,450.0	6,334.2	1,281.1	1,129.5	8.448	ES
EXIST VERT MILE HIGH SHEEP #8-35 - Wellbore #1 - I	6,550.0	6,433.8	1,285.3	1,132.1	8.388	SF
EXIST VERT ROY CARLSON #43-7 - Wellbore #1 - Des	1,558.2	1,542.6	260.5	226.8	7.740	CC
EXIST VERT ROY CARLSON #43-7 - Wellbore #1 - Des	1,700.0	1,681.7	262.0	225.1	7.101	ES
EXIST VERT ROY CARLSON #43-7 - Wellbore #1 - Des	7,909.1	7,002.4	472.6	300.9	2.753	SF
EXIST VERT UHRICH #33-8 - Wellbore #1 - Design #1	6,439.6	6,347.8	2,978.8	2,830.4	20.076	CC, ES, SF
EXIST VERT UHRICH #34-8 - Wellbore #1 - Design #1	6,439.6	6,317.8	3,538.8	3,393.0	24.272	CC, ES
EXIST VERT UHRICH #34-8 - Wellbore #1 - Design #1	6,500.0	6,378.1	3,540.9	3,394.5	24.190	SF
EXIST VERT UHRICH #43-8 - Wellbore #1 - Design #1	6,439.6	6,372.8	4,483.7	4,334.7	30.081	CC, ES, SF
EXIST VERT UHRICH #44-8 - Wellbore #1 - Design #1	6,439.6	6,345.8	4,668.1	4,521.5	31.843	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	0.0	0.0	0.0	0.0	-4.28	1,887.5	-141.3	1,892.8							
98.4	98.4	92.4	92.4	0.1	0.1	-4.28	1,887.5	-141.3	1,892.8	1,892.6	0.16	N/A				
100.0	100.0	94.0	94.0	0.1	0.1	-4.28	1,887.5	-141.3	1,892.8	1,892.6	0.17	N/A				
196.8	196.8	190.8	190.8	0.3	0.3	-4.28	1,887.5	-141.3	1,892.8	1,892.2	0.59	3,181.430				

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