

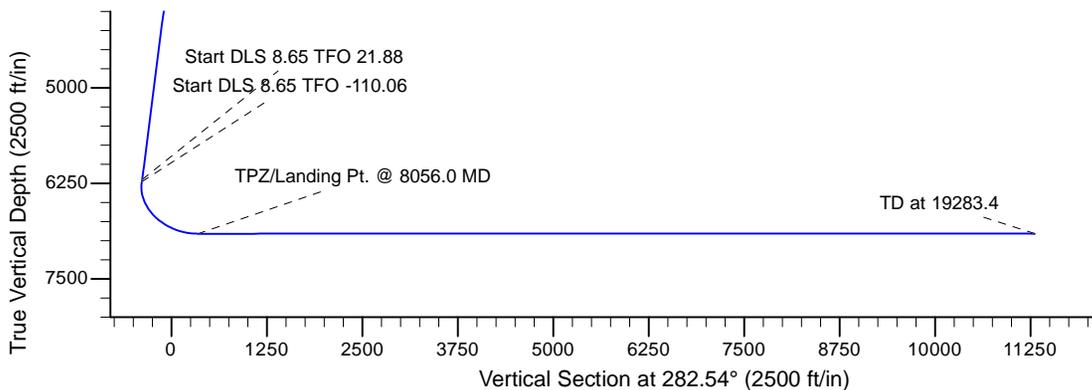
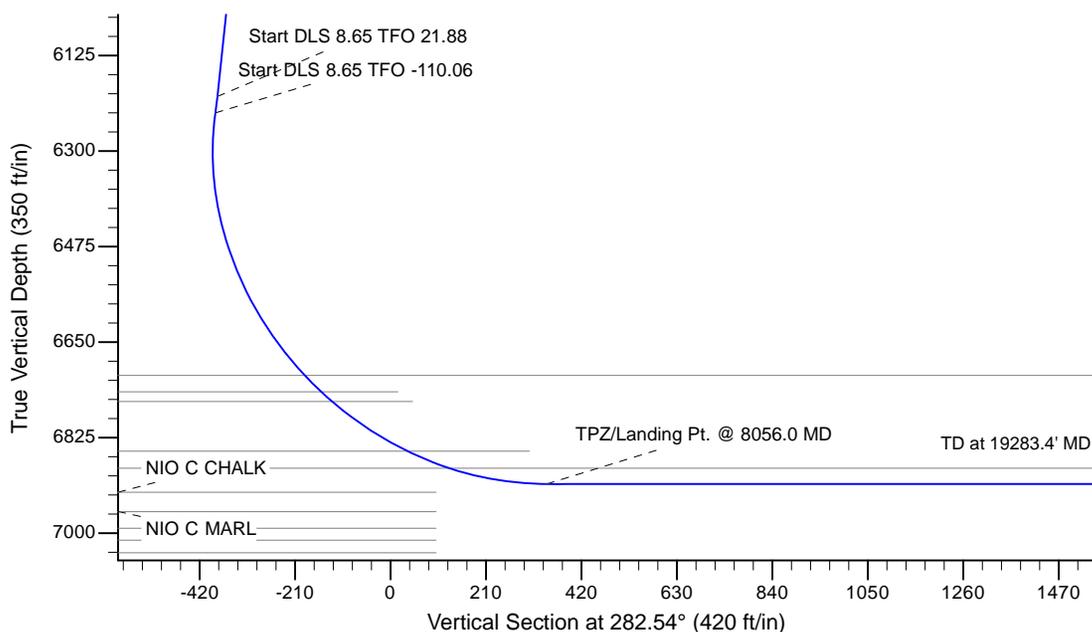
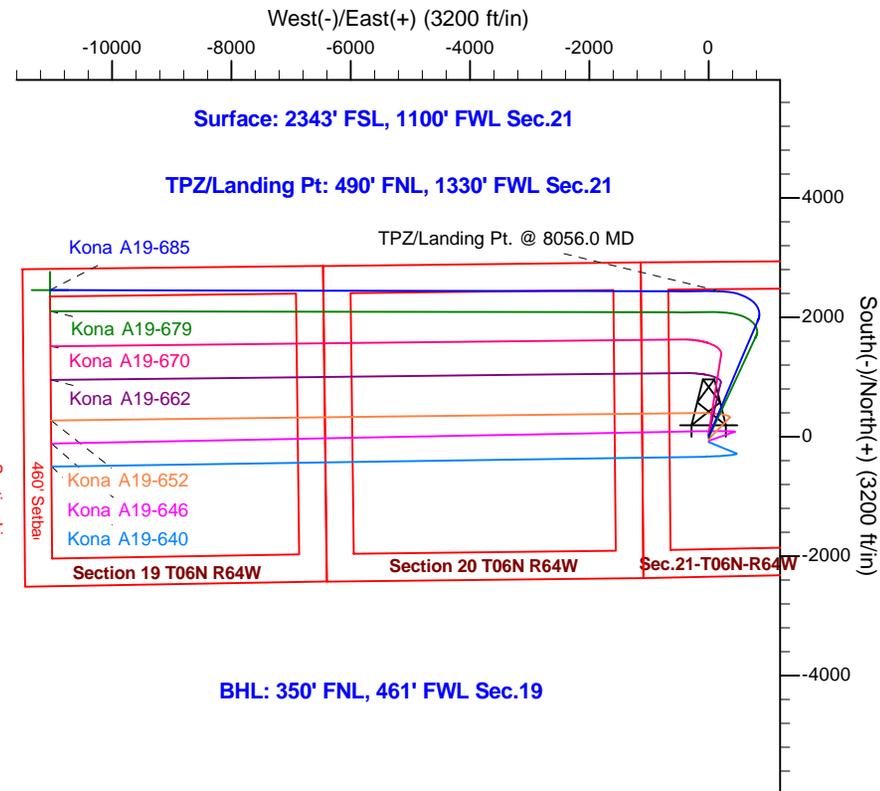
Project: Wells Ranch  
 Site: A Section 21-T6N-R64W Weld County, CO  
 Well: Kona A19-685  
 Wellbore: Original Drilling  
 Design: APD - Rev 0

# Northern Region - DJ Basin

Geodetic System: US State Plane 1983  
 Datum: North American Datum 1983  
 Ellipsoid: GRS 1980  
 Zone: Colorado Northern Zone  
 System Datum: Mean Sea Level

## SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	2300.0	0.00	0.00	2300.0	0.0	0.0	0.00	0.00	0.0	
3	4050.0	35.00	23.00	3943.2	476.9	202.4	2.00	23.00	-94.1	
4	6805.1	35.00	23.00	6200.0	1931.5	819.9	0.00	0.00	-381.1	
5	6842.3	38.01	24.95	6229.9	1951.8	828.9	8.65	21.88	-385.5	
6	8056.0	90.00	270.09	6910.0	2435.0	190.0	8.65	-110.06	343.0	Kona A19-685 BHL 350'FNL, 461'FWL
7	19283.4	90.00	270.10	6910.0	2454.0	-11037.4	0.00	90.00	11307.0	



**T G M**

Azimuths to Grid North  
 True North: -0.61°  
 Magnetic North: 7.55°

Magnetic Field  
 Strength: 52506.5snT  
 Dip Angle: 66.95°  
 Date: 12/21/2016  
 Model: IGRF2015

WELL DETAILS: Kona A19-685					
Sec	MD	Northing	Easting	Ground Elevation: 4743.0'	Longitude
0.0	0.0	1415697.03	3261346.58	40.4706900	-104.5606300
Plan: APD - Rev 0 (Kona A19-685/Original Drilling)					
Created By: -Shailey Jewell			Date: 14:11, December 22 2016		
OK to submit with 2A as per Noble Drilling 12/22/2016 2:13					

# **Northern Region - DJ Basin**

**Wells Ranch  
A Section 21  
Kona A19-685**

**Original Drilling  
APD - Rev 0**

## **Anticollision Summary Report**

**22 December, 2016**

## Anticollision Summary Report

<b>Company:</b>	Northern Region - DJ Basin	<b>Local Co-ordinate Reference:</b>	Well Kona A19-685
<b>Project:</b>	Wells Ranch	<b>TVD Reference:</b>	WELL @ 4773.0ft (Original Well Elev.)
<b>Reference Site:</b>	A Section 21	<b>MD Reference:</b>	WELL @ 4773.0ft (Original Well Elev.)
<b>Site Error:</b>	0.0 ft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Kona A19-685	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 ft	<b>Output errors are at</b>	2.79 sigma
<b>Reference Wellbore</b>	Original Drilling	<b>Database:</b>	EDM Production
<b>Reference Design:</b>	APD - Rev 0	<b>Offset TVD Reference:</b>	Offset Datum

<b>Reference</b> APD - Rev 0	
<b>Filter type:</b>	NO GLOBAL FILTER: Using user defined selection & filtering criteria
<b>Interpolation Method:</b>	Stations
<b>Depth Range:</b>	Unlimited
<b>Results Limited by:</b>	Maximum center-center distance of 10,000.0 ft
<b>Warning Levels Evaluated at:</b>	2.79 Sigma

<b>Survey Tool Program</b>	<b>Date</b> 12/21/2016			
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.0	19,283.4	APD - Rev 0 (Original Drilling)	MWD+IFR1+MS_WY	Fixed:v2:Rockies, crustal dec + 3-axis correction

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						
A Section 19						
Anderson 03-19 (PA) - Original Drilling - Original Drilling -	17,800.0	6,810.0	334.3	-50.7	0.868	Level 1, ES, SF
Anderson 03-19 (PA) - Original Drilling - Original Drilling -	17,804.1	6,810.0	334.2	-50.7	0.868	Level 1, CC
Ley 07-19 - Original Drilling - Original Drilling - As Drilled	16,638.7	6,824.8	1,643.0	1,453.5	8.670	CC, ES
Ley 07-19 - Original Drilling - Original Drilling - As Drilled	16,700.0	6,824.0	1,644.2	1,454.3	8.658	SF
Ley 08-19 - Original Drilling - Original Drilling - As Drilled	15,457.4	6,853.1	1,578.2	1,410.7	9.423	CC, ES
Ley 08-19 - Original Drilling - Original Drilling - As Drilled	15,500.0	6,853.1	1,578.8	1,411.0	9.410	SF
Luppens 05-19 - Original Drilling - Original Drilling - As D	19,283.4	6,788.6	1,834.8	1,595.4	7.665	CC, ES, SF
Roth 11-19 - Original Drilling - Original Drilling - As Drilled	17,976.4	6,775.4	2,979.2	2,754.6	13.266	CC
Roth 11-19 - Original Drilling - Original Drilling - As Drilled	18,000.0	6,775.4	2,979.3	2,754.4	13.249	ES
Roth 11-19 - Original Drilling - Original Drilling - As Drilled	18,300.0	6,775.2	2,996.7	2,769.1	13.164	SF
Roth 14-19 (PA) - Original Drilling - Original Drilling - As D	17,881.5	6,811.0	4,317.3	3,930.9	11.174	CC
Roth 14-19 (PA) - Original Drilling - Original Drilling - As D	17,900.0	6,811.0	4,317.3	3,930.7	11.166	ES
Roth 14-19 (PA) - Original Drilling - Original Drilling - As D	18,400.0	6,811.0	4,348.3	3,955.6	11.073	SF
Roth 19-19 - Original Drilling - Original Drilling - As Drilled	18,532.0	6,849.8	3,469.6	3,244.0	15.377	CC
Roth 19-19 - Original Drilling - Original Drilling - As Drilled	18,600.0	6,849.4	3,470.3	3,243.8	15.318	ES
Roth 19-19 - Original Drilling - Original Drilling - As Drilled	18,900.0	6,847.5	3,489.1	3,259.5	15.193	SF
Roth 22-19 - Original Drilling - Original Drilling - As Drilled	18,397.5	6,927.8	2,155.7	1,931.8	9.631	CC
Roth 22-19 - Original Drilling - Original Drilling - As Drilled	18,400.0	6,927.8	2,155.7	1,931.8	9.629	ES
Roth 22-19 - Original Drilling - Original Drilling - As Drilled	18,500.0	6,927.7	2,158.1	1,933.4	9.605	SF
Roth 23-19 - Original Drilling - Original Drilling - As Drilled	17,798.5	6,883.8	3,610.0	3,397.8	17.014	CC
Roth 23-19 - Original Drilling - Original Drilling - As Drilled	17,800.0	6,883.8	3,610.0	3,397.8	17.012	ES
Roth 23-19 - Original Drilling - Original Drilling - As Drilled	18,200.0	6,884.3	3,632.3	3,415.7	16.775	SF
Roth 25-19 - Original Drilling - Original Drilling - As Drilled	17,339.7	6,952.1	2,412.2	2,208.1	11.818	CC, ES
Roth 25-19 - Original Drilling - Original Drilling - As Drilled	17,500.0	6,950.0	2,417.5	2,211.9	11.758	SF
Roth A19-12 - Original Drilling - Original Drilling - As Drill	18,933.8	6,749.2	2,953.5	2,721.2	12.715	CC
Roth A19-12 - Original Drilling - Original Drilling - As Drill	19,000.0	6,748.7	2,954.3	2,721.2	12.674	ES
Roth A19-12 - Original Drilling - Original Drilling - As Drill	19,200.0	6,747.2	2,965.5	2,730.6	12.625	SF
Roth A19-13 (PA) - Original Drilling - Original Drilling - As	19,116.9	6,804.0	3,921.8	3,512.4	9.577	CC
Roth A19-13 (PA) - Original Drilling - Original Drilling - As	19,200.0	6,804.0	3,922.7	3,512.1	9.553	ES
Roth A19-13 (PA) - Original Drilling - Original Drilling - As	19,283.4	6,804.0	3,925.4	3,513.7	9.534	SF
Weber 04-19 (PA) - Original Drilling - Original Drilling - As	19,090.4	6,816.0	318.3	-91.0	0.778	Level 1, CC, ES, SF
Winter 09-19 - Original Drilling - Original Drilling - As Drill	15,341.9	6,996.5	3,033.8	2,867.5	18.250	CC
Winter 09-19 - Original Drilling - Original Drilling - As Drill	15,400.0	6,996.0	3,034.3	2,867.4	18.174	ES
Winter 09-19 - Original Drilling - Original Drilling - As Drill	15,700.0	6,993.6	3,054.8	2,884.9	17.982	SF
Winter 15-19 - Original Drilling - Original Drilling - As Drill	16,753.3	6,811.0	4,268.8	3,903.6	11.691	CC
Winter 15-19 - Original Drilling - Original Drilling - As Drill	16,800.0	6,811.0	4,269.0	3,903.2	11.670	ES
Winter 15-19 - Original Drilling - Original Drilling - As Drill	17,300.0	6,811.0	4,303.6	3,931.8	11.575	SF

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

## Anticollision Summary Report

<b>Company:</b>	Northern Region - DJ Basin	<b>Local Co-ordinate Reference:</b>	Well Kona A19-685
<b>Project:</b>	Wells Ranch	<b>TVD Reference:</b>	WELL @ 4773.0ft (Original Well Elev.)
<b>Reference Site:</b>	A Section 21	<b>MD Reference:</b>	WELL @ 4773.0ft (Original Well Elev.)
<b>Site Error:</b>	0.0 ft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Kona A19-685	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 ft	<b>Output errors are at</b>	2.79 sigma
<b>Reference Wellbore</b>	Original Drilling	<b>Database:</b>	EDM Production
<b>Reference Design:</b>	APD - Rev 0	<b>Offset TVD Reference:</b>	Offset Datum

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
A Section 19						
Winter 15-19-0 (PA) - Original Drilling - Original Drilling -	16,746.8	3,700.0	5,345.2	5,113.3	23.051	CC
Winter 15-19-0 (PA) - Original Drilling - Original Drilling -	16,800.0	3,700.0	5,345.5	5,112.9	22.980	ES
Winter 15-19-0 (PA) - Original Drilling - Original Drilling -	17,900.0	3,700.0	5,468.2	5,222.9	22.286	SF
Winters 10-19 - Original Drilling - Original Drilling - As Dr	17,032.0	6,879.8	2,646.6	2,448.7	13.374	CC, ES
Winters 10-19 - Original Drilling - Original Drilling - As Dr	17,300.0	6,877.6	2,660.1	2,459.7	13.276	SF
A Section 20						
Foe 16-20 - Original Drilling - Original Drilling - As Drilled	2,326.7	2,285.1	2,471.9	2,459.3	196.517	CC, ES
Foe 16-20 - Original Drilling - Original Drilling - As Drilled	11,800.0	6,843.3	4,527.7	4,438.9	50.987	SF
Foe 33-20 - Original Drilling - Original Drilling - As Drilled	531.8	478.8	3,059.1	3,056.6	1,214.203	CC
Foe 33-20 - Original Drilling - Original Drilling - As Drilled	11,300.0	6,758.0	3,065.2	2,974.5	33.817	ES
Foe 33-20 - Original Drilling - Original Drilling - As Drilled	12,000.0	6,757.2	3,154.4	3,056.8	32.337	SF
Foe 34-20 (PA) - Original Drilling - Original Drilling - As D	2,300.0	2,227.0	3,620.2	3,551.1	52.360	CC
Foe 34-20 (PA) - Original Drilling - Original Drilling - As D	2,400.0	2,327.0	3,621.7	3,549.4	50.132	ES
Foe 34-20 (PA) - Original Drilling - Original Drilling - As D	12,100.0	6,837.0	4,423.1	4,147.2	16.031	SF
Foe 43-20 - Original Drilling - Original Drilling - As Drilled	355.5	311.5	1,635.6	1,634.0	1,039.069	CC
Foe 43-20 - Original Drilling - Original Drilling - As Drilled	800.0	748.6	1,637.6	1,633.6	408.619	ES
Foe 43-20 - Original Drilling - Original Drilling - As Drilled	11,400.0	11,400.0	3,100.6	3,011.2	34.683	SF
Linda Rae 1 - Original Drilling - Original Drilling - As Drille	15,500.3	6,828.8	4,059.5	3,875.1	22.011	CC
Linda Rae 1 - Original Drilling - Original Drilling - As Drille	15,600.0	6,827.8	4,060.7	3,874.9	21.854	ES
Linda Rae 1 - Original Drilling - Original Drilling - As Drille	16,200.0	6,822.0	4,119.4	3,927.1	21.429	SF
Simmons 42-20D - Original Drilling - Original Drilling - As	9,983.6	6,915.1	1,450.2	1,376.0	19.533	CC
Simmons 42-20D - Original Drilling - Original Drilling - As	10,000.0	6,915.0	1,450.3	1,375.9	19.500	ES
Simmons 42-20D - Original Drilling - Original Drilling - As	10,100.0	6,914.6	1,454.9	1,379.8	19.378	SF
Snider 1-20EG - Original Drilling - Original Drilling - As D	12,645.3	6,852.1	4,213.4	4,097.9	36.475	CC
Snider 1-20EG - Original Drilling - Original Drilling - As D	12,700.0	6,852.5	4,213.8	4,097.5	36.233	ES
Snider 1-20EG - Original Drilling - Original Drilling - As D	13,800.0	6,859.8	4,368.8	4,240.3	33.997	SF
Stump A20-11 - Original Drilling - Original Drilling - As Dr	12,788.7	6,716.0	3,028.1	2,911.0	25.854	CC
Stump A20-11 - Original Drilling - Original Drilling - As Dr	12,800.0	6,715.6	3,028.1	2,910.9	25.823	ES
Stump A20-11 - Original Drilling - Original Drilling - As Dr	13,300.0	6,699.4	3,071.0	2,948.6	25.100	SF
Stump A20-12 - Original Drilling - Original Drilling - As Dr	13,808.2	6,837.6	2,658.6	2,521.8	19.435	CC, ES
Stump A20-12 - Original Drilling - Original Drilling - As Dr	14,100.0	6,827.9	2,674.6	2,535.0	19.156	SF
Stump A20-13 - Original Drilling - Original Drilling - As Dr	13,921.3	6,817.3	4,267.2	4,128.1	30.679	CC
Stump A20-13 - Original Drilling - Original Drilling - As Dr	14,000.0	6,817.2	4,267.9	4,127.7	30.437	ES
Stump A20-13 - Original Drilling - Original Drilling - As Dr	14,900.0	6,815.8	4,378.0	4,227.8	29.153	SF
Winter 20-19 - Original Drilling - Original Drilling - As Dril	15,780.1	6,996.6	3,465.6	3,290.7	19.817	CC
Winter 20-19 - Original Drilling - Original Drilling - As Dril	15,800.0	6,996.7	3,465.7	3,290.5	19.787	ES
Winter 20-19 - Original Drilling - Original Drilling - As Dril	16,300.0	6,999.5	3,504.4	3,324.0	19.431	SF
Winter 24-19 - Original Drilling - Original Drilling - As Dril	15,637.3	7,222.6	2,286.1	2,111.2	13.071	CC, ES
Winter 24-19 - Original Drilling - Original Drilling - As Dril	15,800.0	7,223.1	2,291.9	2,115.6	13.003	SF
Winter 39-19 - Original Drilling - Original Drilling - As Dril	14,633.1	6,967.1	3,759.6	3,605.7	24.427	CC
Winter 39-19 - Original Drilling - Original Drilling - As Dril	14,700.0	6,967.3	3,760.2	3,605.4	24.280	ES
Winter 39-19 - Original Drilling - Original Drilling - As Dril	15,300.0	6,969.5	3,818.3	3,656.8	23.640	SF
Winter 40-19 - Original Drilling - Original Drilling - As Dril	14,521.4	7,237.5	2,566.1	2,410.5	16.493	CC, ES
Winter 40-19 - Original Drilling - Original Drilling - As Dril	14,900.0	7,235.9	2,593.9	2,434.2	16.246	SF

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

## Anticollision Summary Report

<b>Company:</b>	Northern Region - DJ Basin	<b>Local Co-ordinate Reference:</b>	Well Kona A19-685
<b>Project:</b>	Wells Ranch	<b>TVD Reference:</b>	WELL @ 4773.0ft (Original Well Elev.)
<b>Reference Site:</b>	A Section 21	<b>MD Reference:</b>	WELL @ 4773.0ft (Original Well Elev.)
<b>Site Error:</b>	0.0 ft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Kona A19-685	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 ft	<b>Output errors are at</b>	2.79 sigma
<b>Reference Wellbore</b>	Original Drilling	<b>Database:</b>	EDM Production
<b>Reference Design:</b>	APD - Rev 0	<b>Offset TVD Reference:</b>	Offset Datum

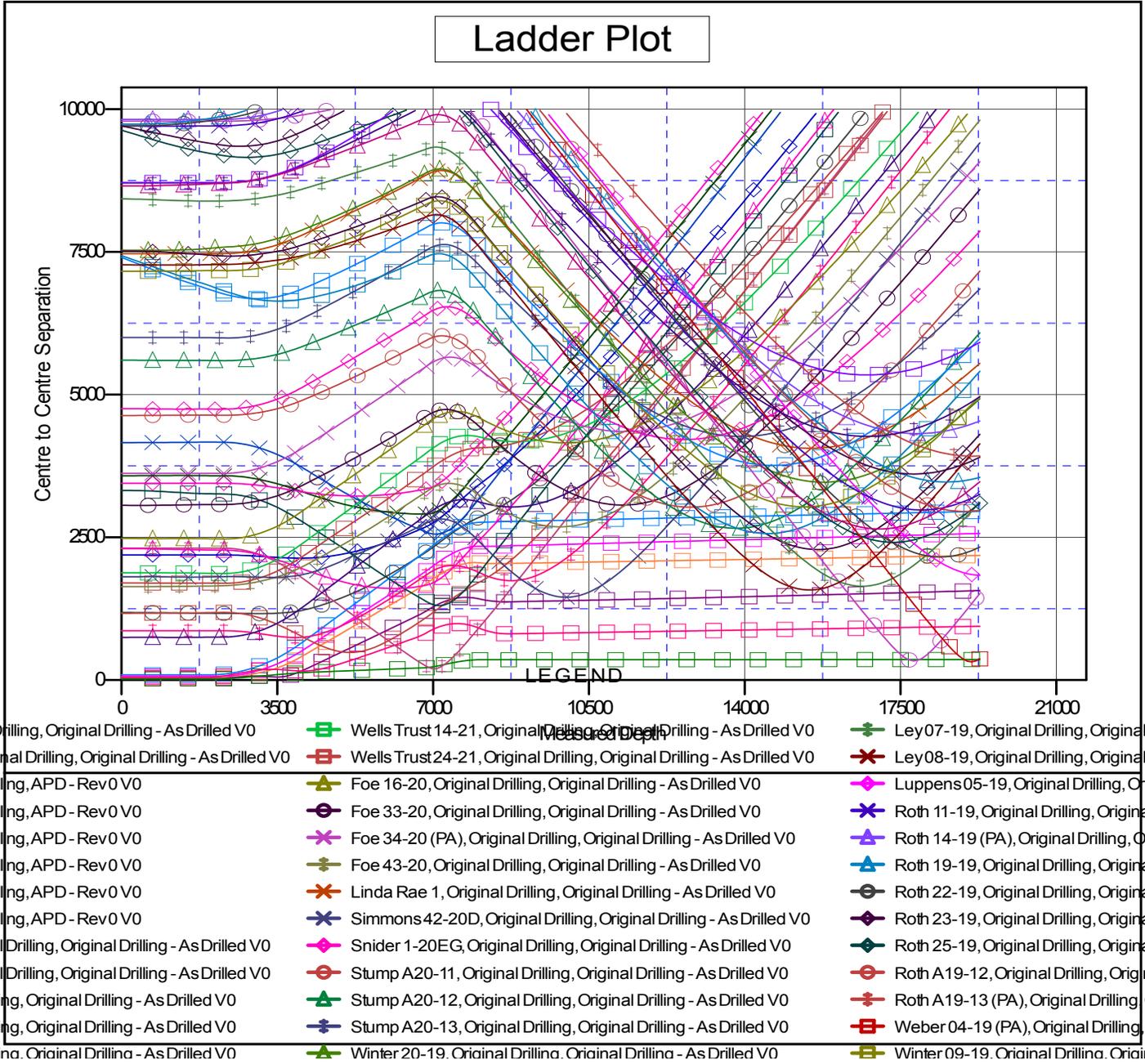
Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
A Section 21						
Offset Well - Wellbore - Design						
Culbreath 23-21 - Original Drilling - Original Drilling - As D	3,135.7	3,079.7	1,164.3	1,147.1	67.949	CC
Culbreath 23-21 - Original Drilling - Original Drilling - As D	3,200.0	3,141.4	1,164.4	1,146.9	66.524	ES
Culbreath 23-21 - Original Drilling - Original Drilling - As D	5,200.0	4,925.0	1,521.8	1,489.3	46.714	SF
Culbreath 33-21 (PA) - Original Drilling - Original Drilling	4,003.8	3,850.2	2,135.1	2,014.3	17.669	CC
Culbreath 33-21 (PA) - Original Drilling - Original Drilling	4,200.0	4,011.0	2,138.1	2,011.6	16.901	ES
Culbreath 33-21 (PA) - Original Drilling - Original Drilling	6,850.0	6,181.0	2,687.8	2,483.8	13.172	SF
Kona A19-640 - Original Drilling - APD - Rev 0	1,900.0	1,898.0	91.1	79.6	7.919	CC, ES
Kona A19-640 - Original Drilling - APD - Rev 0	19,283.4	18,086.2	2,955.0	2,517.7	6.758	SF
Kona A19-646 - Original Drilling - APD - Rev 0	2,300.0	2,301.0	69.2	55.2	4.937	CC, ES
Kona A19-646 - Original Drilling - APD - Rev 0	2,400.0	2,401.0	70.8	56.2	4.836	SF
Kona A19-652 - Original Drilling - APD - Rev 0	2,300.0	2,301.0	43.7	29.7	3.118	CC, ES
Kona A19-652 - Original Drilling - APD - Rev 0	2,400.0	2,401.0	45.3	30.7	3.094	SF
Kona A19-662 - Original Drilling - APD - Rev 0	2,100.0	2,101.0	21.9	9.1	1.713	CC, ES, SF
Kona A19-670 - Original Drilling - APD - Rev 0	1,900.0	1,901.0	43.7	32.2	3.798	CC, ES
Kona A19-670 - Original Drilling - APD - Rev 0	19,283.4	18,074.3	941.6	508.1	2.172	SF
Kona A19-679 - Original Drilling - APD - Rev 0	2,300.0	2,300.0	21.9	7.8	1.560	CC
Kona A19-679 - Original Drilling - APD - Rev 0	19,283.4	19,070.5	358.4	-78.0	0.821	Level 1, ES, SF
McKee 12-21 (PA) - Original Drilling - Original Drilling - A	3,908.7	3,806.5	743.6	624.5	6.244	CC
McKee 12-21 (PA) - Original Drilling - Original Drilling - A	4,000.0	3,883.0	745.3	623.6	6.123	ES
McKee 12-21 (PA) - Original Drilling - Original Drilling - A	4,300.0	4,129.0	775.9	645.7	5.957	SF
McKee 21-21 (PA) - Original Drilling - Original Drilling - A	7,023.1	6,372.8	197.7	-13.8	0.935	Level 1, CC, SF
McKee 21-21 (PA) - Original Drilling - Original Drilling - A	7,050.0	6,394.7	198.9	-13.8	0.935	Level 1, ES
McKee 22-21 - Original Drilling - Original Drilling - As Dril	5,135.7	4,823.3	483.2	450.5	14.781	CC, ES
McKee 22-21 - Original Drilling - Original Drilling - As Dril	5,300.0	4,965.3	491.4	457.1	14.326	SF
McKee 31-21 - Original Drilling - Original Drilling - As Dril	7,136.4	6,501.9	1,304.6	1,256.1	26.873	CC, ES
McKee 31-21 - Original Drilling - Original Drilling - As Dril	7,300.0	6,625.9	1,328.5	1,278.0	26.353	SF
McKee 32-21 - Original Drilling - Original Drilling - As Dril	6,151.5	5,681.4	1,603.0	1,560.4	37.559	CC
McKee 32-21 - Original Drilling - Original Drilling - As Dril	6,200.0	5,716.6	1,603.3	1,560.1	37.154	ES
McKee 32-21 - Original Drilling - Original Drilling - As Dril	6,900.0	6,240.8	1,672.6	1,623.1	33.817	SF
McKee 41-21 - Original Drilling - Original Drilling - As Dril	7,060.1	6,356.2	2,556.5	2,507.8	52.507	CC, ES
McKee 41-21 - Original Drilling - Original Drilling - As Dril	7,300.0	6,543.0	2,602.9	2,552.0	51.165	SF
McKee 42-21 - Original Drilling - Original Drilling - As Dril	6,712.1	6,069.4	2,907.9	2,860.3	61.132	CC
McKee 42-21 - Original Drilling - Original Drilling - As Dril	6,850.0	6,172.6	2,908.9	2,860.0	59.469	ES
McKee 42-21 - Original Drilling - Original Drilling - As Dril	7,100.0	6,378.9	2,957.8	2,906.8	57.991	SF
Sexton 43-21 (PA) - Original Drilling - Original Drilling - A	5,274.5	4,883.2	3,224.1	3,065.9	20.379	CC
Sexton 43-21 (PA) - Original Drilling - Original Drilling - A	5,600.0	5,149.9	3,229.5	3,061.4	19.215	ES
Sexton 43-21 (PA) - Original Drilling - Original Drilling - A	7,100.0	6,375.3	3,427.8	3,215.0	16.105	SF
Wells Trust 13-21 - Original Drilling - Original Drilling - As	100.0	55.6	746.8	746.6	4,073.210	CC
Wells Trust 13-21 - Original Drilling - Original Drilling - As	1,500.0	1,454.5	748.1	740.2	94.460	ES
Wells Trust 13-21 - Original Drilling - Original Drilling - As	3,200.0	3,139.4	889.6	872.2	51.035	SF
Wells Trust 14-21 - Original Drilling - Original Drilling - As	2,315.4	2,266.6	1,866.7	1,854.1	148.103	CC, ES
Wells Trust 14-21 - Original Drilling - Original Drilling - As	11,000.0	6,854.7	4,686.5	4,611.7	62.599	SF
Wells Trust 24-21 - Original Drilling - Original Drilling - As	2,323.9	2,267.0	1,696.2	1,683.7	135.279	CC, ES
Wells Trust 24-21 - Original Drilling - Original Drilling - As	10,400.0	6,837.0	4,715.2	4,650.0	72.298	SF

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

# Anticollision Summary Report

<b>Company:</b>	Northern Region - DJ Basin	<b>Local Co-ordinate Reference:</b>	Well Kona A19-685
<b>Project:</b>	Wells Ranch	<b>TVD Reference:</b>	WELL @ 4773.0ft (Original Well Elev.)
<b>Reference Site:</b>	A Section 21	<b>MD Reference:</b>	WELL @ 4773.0ft (Original Well Elev.)
<b>Site Error:</b>	0.0 ft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Kona A19-685	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 ft	<b>Output errors are at</b>	2.79 sigma
<b>Reference Wellbore</b>	Original Drilling	<b>Database:</b>	EDM Production
<b>Reference Design:</b>	APD - Rev 0	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to WELL @ 4773.0ft (Original Well Elev.)      Coordinates are relative to: Kona A19-685  
 Offset Depths are relative to Offset Datum      Coordinate System is US State Plane 1983, Colorado Northern Zone  
 Central Meridian is -105.5000000      Grid Convergence at Surface is: 0.61°

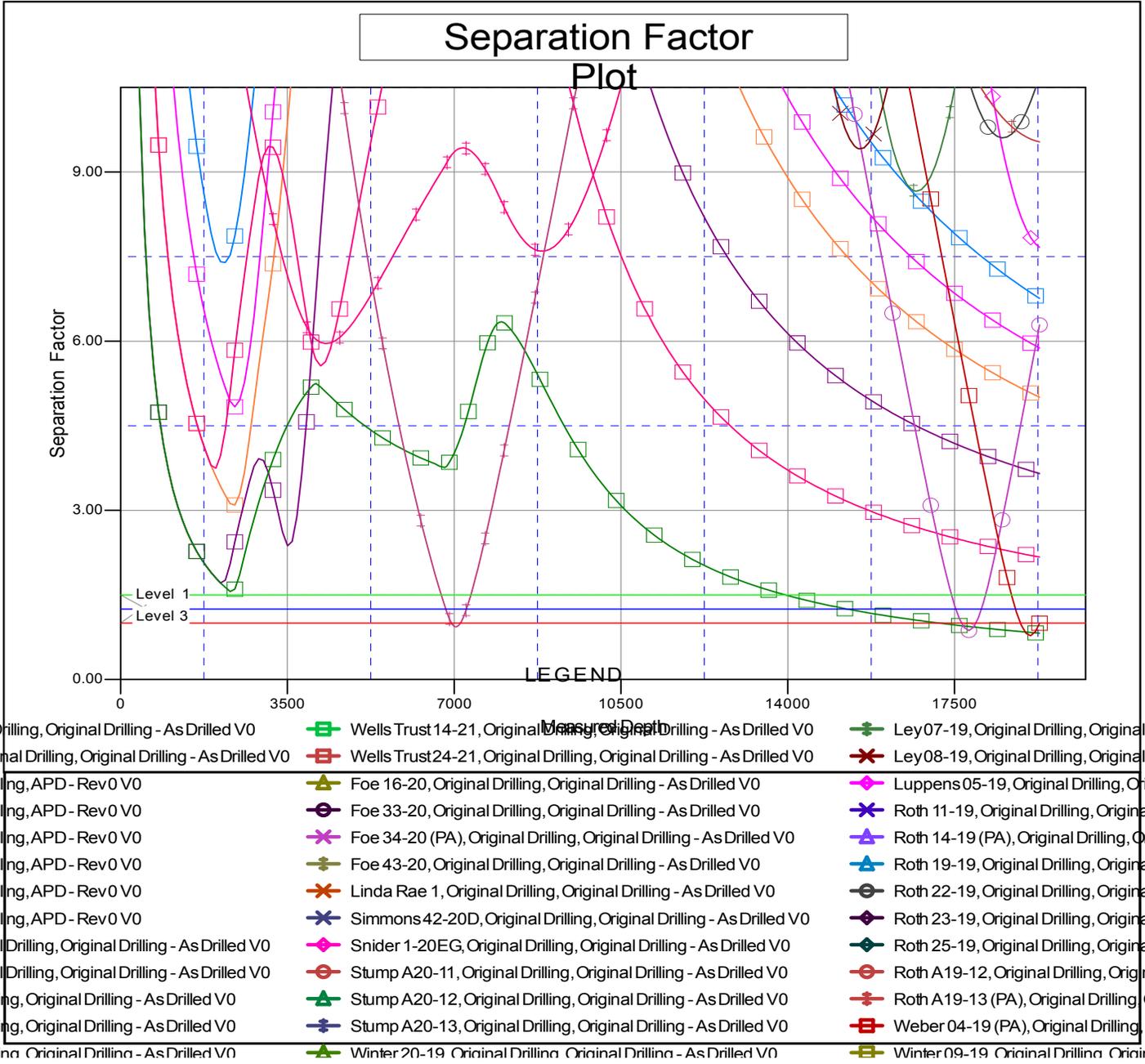


CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Summary Report

<b>Company:</b>	Northern Region - DJ Basin	<b>Local Co-ordinate Reference:</b>	Well Kona A19-685
<b>Project:</b>	Wells Ranch	<b>TVD Reference:</b>	WELL @ 4773.0ft (Original Well Elev.)
<b>Reference Site:</b>	A Section 21	<b>MD Reference:</b>	WELL @ 4773.0ft (Original Well Elev.)
<b>Site Error:</b>	0.0 ft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Kona A19-685	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 ft	<b>Output errors are at</b>	2.79 sigma
<b>Reference Wellbore</b>	Original Drilling	<b>Database:</b>	EDM Production
<b>Reference Design:</b>	APD - Rev 0	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to WELL @ 4773.0ft (Original Well Elev.)      Coordinates are relative to: Kona A19-685  
 Offset Depths are relative to Offset Datum      Coordinate System is US State Plane 1983, Colorado Northern Zone  
 Central Meridian is -105.5000000      Grid Convergence at Surface is: 0.61°



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