

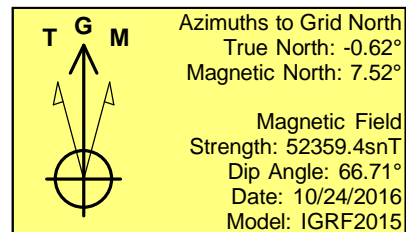
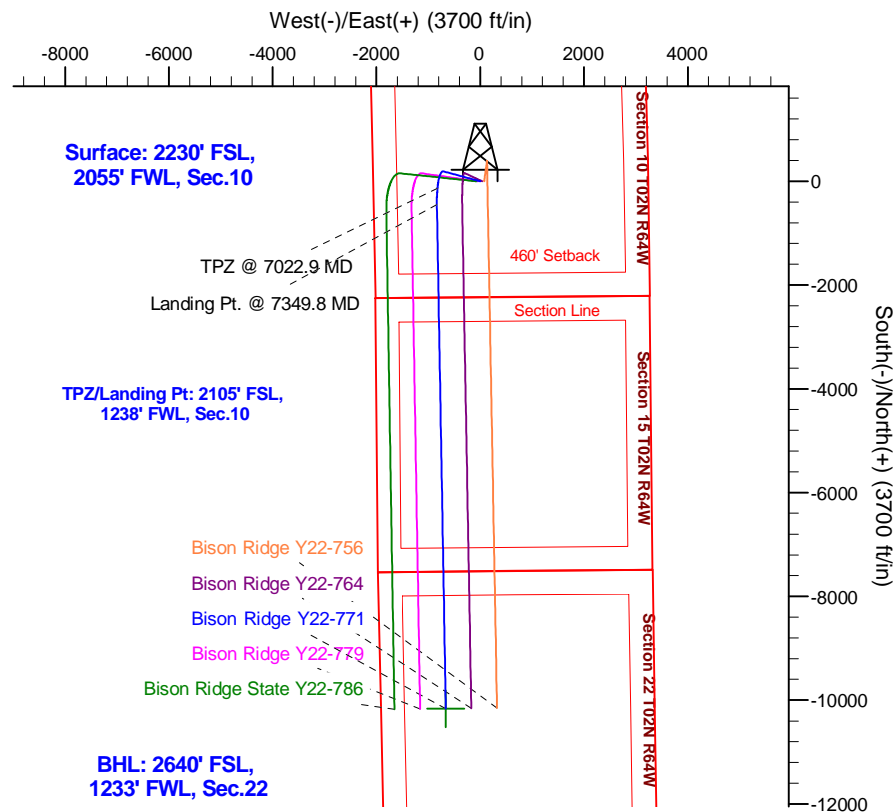
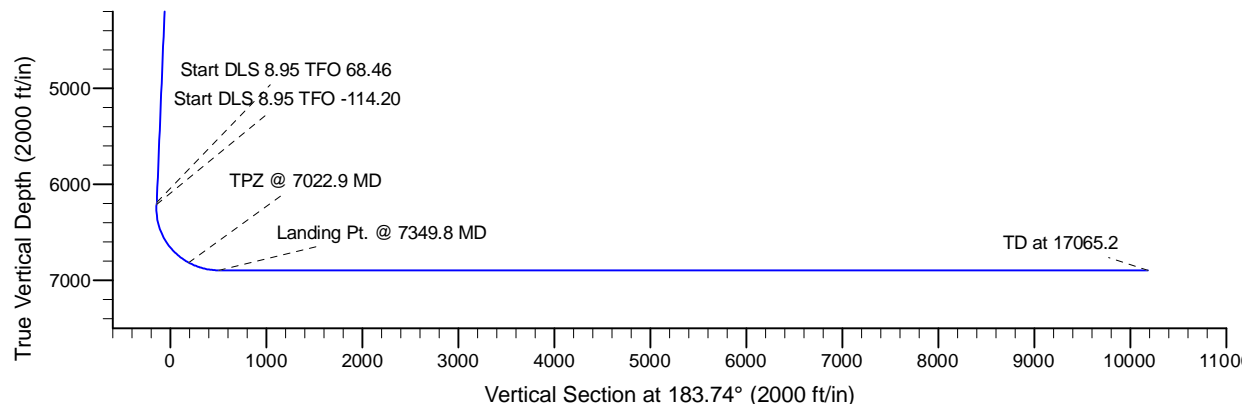
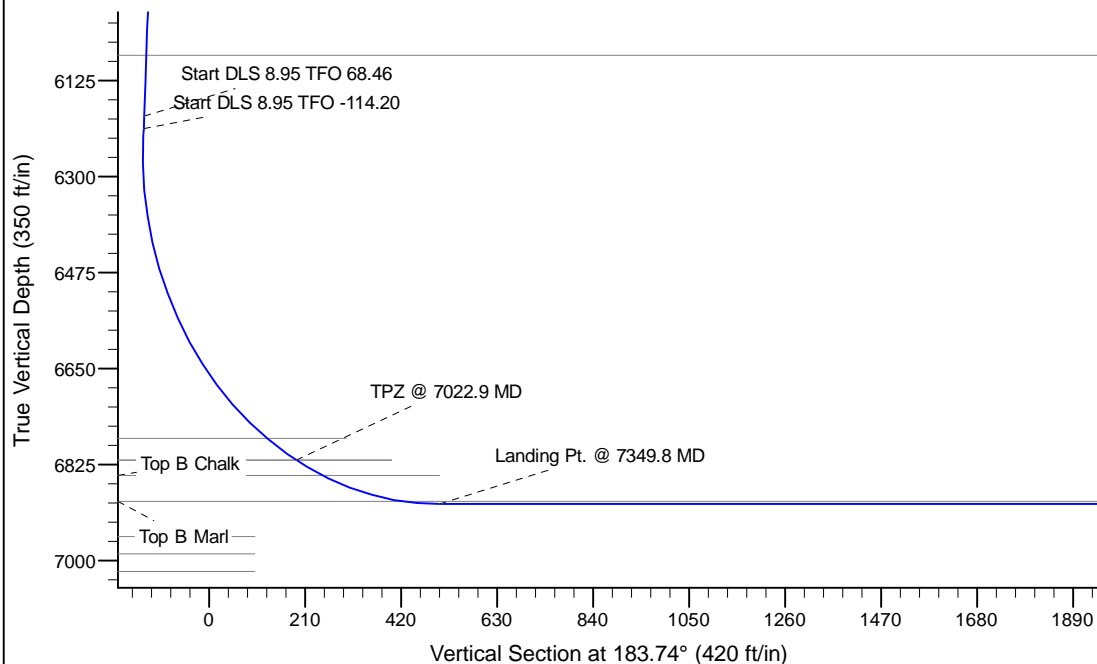
Project: Mustang
 Site: Y Section 10-T2N-R64W Weld County, CO
 Well: Bison Ridge Y22-771
 Wellbore: Original Drilling
 Design: APD - Rev 0

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	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	2400.0	0.00	0.00	2400.0	0.0	0.0	0.00	0.00	0.0	
3	2987.5	11.75	285.00	2983.4	15.5	-58.0	2.00	285.00	-11.7	
4	6262.7	11.75	285.00	6190.0	188.2	-702.2	0.00	0.00	-141.9	
5	6285.6	12.64	293.72	6212.3	189.8	-706.8	8.95	68.46	-143.3	
6	7349.8	90.00	178.99	6897.0	-450.0	-835.0	8.95	-114.20	503.5	
7	17065.2	90.00	179.00	6897.0	-10163.9	-664.6	0.00	90.00	10185.6	Bison Ridge Y22-771 BHL 2640'FSL, 1233'FWL



WELL DETAILS: Bison Ridge Y22-771

North	East	Ground Elevation: 4931.0	Longitude
0.00.0	1299608.4455398	3268424.4943992	40.1518300
			-104.5397100

Plan: APD - Rev 0 (Bison Ridge Y22-771/Original Drilling)

Created By: -Shailey Jewell Date: 15:36, April 26 2017

OK to submit with 2A as per Noble Drilling
4/26/2017 3:40

Northern Region - DJ Basin

Mustang

Y Section 10

Bison Ridge Y22-771

Original Drilling

APD - Rev 0

Anticollision Summary Report

26 April, 2017

Noble Energy, Inc.
Anticollision Summary Report

Company:	Northern Region - DJ Basin	Local Co-ordinate Reference:	Well Bison Ridge Y22-771
Project:	Mustang	TVD Reference:	WELL @ 4961.0ft (Original Well Elev.)
Reference Site:	Y Section 10	MD Reference:	WELL @ 4961.0ft (Original Well Elev.)
Site Error:	0.0 ft	North Reference:	Grid
Reference Well:	Bison Ridge Y22-771	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	EDMP
Reference Design:	APD - Rev 0	Offset TVD Reference:	Offset Datum

Reference	APD - Rev 0		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.0ft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 1,933.6 ft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	4/26/2017		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	17,065.2	APD - Rev 0 (Original Drilling)	2_MWD+IFR1+MS	A008Mb: IFR dec & multi-station analysis

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						
Y Section 10						
Bison Ridge State Y22-786 - Original Drilling - APD - Rev	2,000.0	1,999.0	75.5	61.6	5.442	CC, ES
Bison Ridge State Y22-786 - Original Drilling - APD - Rev	17,000.0	21,275.5	989.7	783.8	4.807	SF
Bison Ridge Y22-711 - Original Drilling - APD - Rev 0	2,000.0	1,992.0	1,299.8	1,292.9	187.385	CC, ES
Bison Ridge Y22-711 - Original Drilling - APD - Rev 0	3,000.0	2,657.5	1,473.4	1,463.2	144.401	SF
Bison Ridge Y22-719 - Original Drilling - Prelim - Rev 1	2,200.0	2,192.0	1,260.7	1,253.0	164.719	CC, ES
Bison Ridge Y22-719 - Original Drilling - Prelim - Rev 1	3,100.0	2,797.6	1,432.1	1,421.5	135.419	SF
Bison Ridge Y22-726 - Original Drilling - Prelim - Rev 1	2,400.0	2,393.0	1,224.3	1,216.0	146.269	CC, ES
Bison Ridge Y22-726 - Original Drilling - Prelim - Rev 1	4,500.0	4,110.3	1,897.3	1,882.0	124.015	SF
Bison Ridge Y22-734 - Original Drilling - Prelim - Rev 1	2,400.0	2,393.0	1,188.0	1,179.6	141.928	CC, ES
Bison Ridge Y22-734 - Original Drilling - Prelim - Rev 1	5,200.0	4,956.3	1,918.8	1,900.7	106.149	SF
Bison Ridge Y22-741 - Original Drilling - Prelim - Rev 1	2,400.0	2,393.0	1,148.9	1,140.5	137.253	CC, ES
Bison Ridge Y22-741 - Original Drilling - Prelim - Rev 1	6,500.0	6,388.8	1,922.2	1,899.2	83.328	SF
Bison Ridge Y22-749 - Original Drilling - Prelim - Rev 1	2,759.8	2,885.5	1,059.3	1,049.7	110.750	CC, ES
Bison Ridge Y22-749 - Original Drilling - Prelim - Rev 1	17,065.2	17,013.0	1,479.6	1,392.3	16.955	SF
Bison Ridge Y22-756 - Original Drilling - Prelim - Rev 1	2,200.0	2,200.0	75.5	67.8	9.861	CC
Bison Ridge Y22-756 - Original Drilling - Prelim - Rev 1	2,300.0	2,299.6	75.8	67.7	9.455	ES
Bison Ridge Y22-756 - Original Drilling - Prelim - Rev 1	2,400.0	2,398.9	76.8	68.5	9.179	SF
Bison Ridge Y22-764 - Original Drilling - Prelim - Rev 1	2,400.0	2,400.0	36.3	28.0	4.341	CC, ES, SF
Bison Ridge Y22-779 - Original Drilling - APD - Rev 0	2,200.0	2,199.0	39.1	23.8	2.557	CC, ES
Bison Ridge Y22-779 - Original Drilling - APD - Rev 0	2,300.0	2,297.6	40.8	24.8	2.550	SF
Oscar Y10-72-1HC - Original Drilling - APD - Rev 1						Out of range
Oscar Y10-72-1HC - Original Drilling - Original Drilling - A						Out of range
Oscar Y10-72-1HN - Original Drilling - APD - Rev 0						Out of range
Oscar Y10-72-1HN - Original Drilling - Original Drilling - A						Out of range
Oscar Y10-72HN - Original Drilling - APD - Rev 1						Out of range
Oscar Y10-72HN - Original Drilling - Original Drilling - As						Out of range
Oscar Y10-73-1HC - Original Drilling - APD - Rev 1						Out of range
Oscar Y10-73-1HC - Original Drilling - Original Drilling - A						Out of range
Oscar Y10-73-1HN - Original Drilling - APD - Rev 1						Out of range
Oscar Y10-73-1HN - Original Drilling - Original Drilling - A						Out of range
Oscar Y10-73HN - Original Drilling - APD - Rev 0						Out of range
Oscar Y10-73HN - Original Drilling - Original Drilling - As						Out of range
Oscar Y10-74-1HC - Original Drilling - APD - Rev 1	1,500.0	1,477.0	1,230.2	1,225.1	239.140	CC, ES
Oscar Y10-74-1HC - Original Drilling - APD - Rev 1	5,400.0	5,339.7	1,922.1	1,903.0	100.872	SF
Oscar Y10-74-1HC - Original Drilling - Original Drilling- A	1,509.8	1,494.8	1,222.3	1,213.2	133.987	CC
Oscar Y10-74-1HC - Original Drilling - Original Drilling- A	1,600.0	1,577.8	1,222.5	1,213.0	128.390	ES
Oscar Y10-74-1HC - Original Drilling - Original Drilling- A	5,700.0	5,623.5	1,920.5	1,884.4	53.170	SF

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

Noble Energy, Inc.
Anticollision Summary Report

Company:	Northern Region - DJ Basin	Local Co-ordinate Reference:	Well Bison Ridge Y22-771
Project:	Mustang	TVD Reference:	WELL @ 4961.0ft (Original Well Elev.)
Reference Site:	Y Section 10	MD Reference:	WELL @ 4961.0ft (Original Well Elev.)
Site Error:	0.0 ft	North Reference:	Grid
Reference Well:	Bison Ridge Y22-771	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	EDMP
Reference Design:	APD - Rev 0	Offset TVD Reference:	Offset Datum

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						
Y Section 10						
Oscar Y10-74-1HC - Original Drilling - Target Change	1,509.8	1,494.8	1,222.3	1,213.2	133.987	CC
Oscar Y10-74-1HC - Original Drilling - Target Change	1,600.0	1,577.8	1,222.5	1,213.0	128.390	ES
Oscar Y10-74-1HC - Original Drilling - Target Change	5,700.0	5,623.5	1,920.5	1,884.4	53.170	SF
Oscar Y10-74-1HN - Original Drilling - APD - Rev 0	1,000.0	974.0	1,305.2	1,301.8	389.382	CC, ES
Oscar Y10-74-1HN - Original Drilling - APD - Rev 0	4,300.0	4,280.4	1,923.2	1,908.2	127.806	SF
Oscar Y10-74-1HN - Original Drilling - Baxter	1,098.9	1,083.9	1,302.6	1,298.9	351.450	CC
Oscar Y10-74-1HN - Original Drilling - Baxter	1,200.0	1,179.4	1,302.8	1,298.7	320.190	ES
Oscar Y10-74-1HN - Original Drilling - Baxter	4,400.0	4,182.1	1,910.3	1,895.1	125.255	SF
Oscar Y10-74-1HN - Original Drilling - Original Drilling - A	1,098.9	1,083.9	1,302.6	1,295.6	186.120	CC
Oscar Y10-74-1HN - Original Drilling - Original Drilling - A	1,200.0	1,179.4	1,302.9	1,295.3	172.703	ES
Oscar Y10-74-1HN - Original Drilling - Original Drilling - A	4,400.0	4,182.1	1,910.4	1,883.5	71.083	SF
Oscar Y10-74HN - Original Drilling - APD - Rev 1	1,800.0	1,778.0	1,230.2	1,224.0	197.792	CC
Oscar Y10-74HN - Original Drilling - APD - Rev 1	1,900.0	1,867.8	1,230.5	1,223.9	187.067	ES
Oscar Y10-74HN - Original Drilling - APD - Rev 1	6,100.0	6,021.5	1,931.9	1,910.2	89.282	SF
Oscar Y10-74HN - Original Drilling - Original Drilling - As	914.0	900.0	1,227.2	1,221.4	211.501	CC
Oscar Y10-74HN - Original Drilling - Original Drilling - As	1,800.0	1,773.6	1,228.1	1,217.6	117.258	ES
Oscar Y10-74HN - Original Drilling - Original Drilling - As	6,100.0	6,037.5	1,919.2	1,880.0	49.002	SF
Oscar Y10-75-1HC - Original Drilling - APD - Rev 1	2,898.5	3,052.7	959.0	949.0	95.759	CC
Oscar Y10-75-1HC - Original Drilling - APD - Rev 1	2,900.0	3,054.2	959.0	949.0	95.708	ES
Oscar Y10-75-1HC - Original Drilling - APD - Rev 1	6,400.0	6,317.5	1,498.5	1,475.8	66.019	SF
Oscar Y10-75-1HC - Original Drilling - Original Drilling - A	2,715.2	2,817.1	1,075.6	1,059.3	66.013	CC, ES
Oscar Y10-75-1HC - Original Drilling - Original Drilling - A	6,400.0	6,316.9	1,487.5	1,446.1	35.998	SF
Oscar Y10-75-1HN - Original Drilling - APD - Rev 1	2,762.0	2,880.1	1,092.5	1,082.9	113.990	CC, ES
Oscar Y10-75-1HN - Original Drilling - APD - Rev 1	6,400.0	6,294.1	1,669.6	1,646.9	73.589	SF
Oscar Y10-75-1HN - Original Drilling - Original Drilling - A	2,625.0	2,697.5	1,151.3	1,135.5	73.198	CC, ES
Oscar Y10-75-1HN - Original Drilling - Original Drilling - A	6,500.0	6,405.5	1,702.7	1,660.5	40.324	SF
Oscar Y10-75HN - Original Drilling - APD - Rev 0	3,071.0	3,242.2	783.6	773.1	73.983	CC
Oscar Y10-75HN - Original Drilling - APD - Rev 0	3,100.0	3,265.9	783.7	773.0	73.227	ES
Oscar Y10-75HN - Original Drilling - APD - Rev 0	6,300.0	6,277.0	1,304.7	1,282.3	58.295	SF
Oscar Y10-75HN - Original Drilling - Original Drilling - As	2,767.2	2,877.7	952.4	935.6	56.794	CC
Oscar Y10-75HN - Original Drilling - Original Drilling - As	2,800.0	2,911.1	952.5	935.5	56.072	ES
Oscar Y10-75HN - Original Drilling - Original Drilling - As	6,300.0	6,255.1	1,286.0	1,244.9	31.306	SF
Oscar Y10-76-1HC - Original Drilling - APD - Rev 0	1,500.0	1,480.0	164.9	159.7	32.051	CC, ES
Oscar Y10-76-1HC - Original Drilling - APD - Rev 0	1,800.0	1,765.1	177.0	170.8	28.533	SF
Oscar Y10-76-1HN - Original Drilling - APD - Rev 2	1,500.0	1,483.0	153.0	147.9	29.750	CC, ES
Oscar Y10-76-1HN - Original Drilling - APD - Rev 2	1,800.0	1,769.5	164.9	158.7	26.577	SF
Oscar Y10-76-1HN - Original Drilling - Original Drilling - A	100.0	82.7	153.1	152.8	571.315	CC
Oscar Y10-76-1HN - Original Drilling - Original Drilling - A	300.0	282.1	153.9	152.6	115.859	ES
Oscar Y10-76-1HN - Original Drilling - Original Drilling - A	1,700.0	1,661.3	192.1	182.6	20.197	SF
Oscar Y10-76HN - Original Drilling - APD - Rev 2	1,800.0	1,784.0	149.4	143.1	24.014	CC, ES
Oscar Y10-76HN - Original Drilling - APD - Rev 2	4,000.0	3,973.3	294.9	280.8	20.947	SF
Oscar Y10-76HN - Original Drilling - Original Drilling - As	100.0	83.7	149.4	149.2	554.148	CC
Oscar Y10-76HN - Original Drilling - Original Drilling - As	1,400.0	1,383.8	150.4	142.0	17.994	ES
Oscar Y10-76HN - Original Drilling - Original Drilling - As	4,300.0	4,267.3	305.0	278.5	11.507	SF
Oscar Y10-77-1HC - Original Drilling - APD - Rev 2	1,200.0	1,184.0	155.1	151.0	38.118	CC, ES
Oscar Y10-77-1HC - Original Drilling - APD - Rev 2	5,200.0	5,176.7	185.1	166.6	9.961	SF
Oscar Y10-77-1HC - Original Drilling - Original Drilling - A	4,870.8	4,833.1	118.5	86.5	3.701	CC
Oscar Y10-77-1HC - Original Drilling - Original Drilling - A	4,900.0	4,861.5	118.6	86.4	3.681	ES
Oscar Y10-77-1HC - Original Drilling - Original Drilling - A	5,100.0	5,061.6	122.2	88.7	3.645	SF
Oscar Y10-77-1HN - Original Drilling - APD 0 Rev 0	1,500.0	1,481.0	149.4	144.2	29.036	CC, ES
Oscar Y10-77-1HN - Original Drilling - APD 0 Rev 0	5,600.0	5,574.7	294.8	274.7	14.703	SF
Oscar Y10-77HN - Original Drilling - APD - Rev 2	6,364.2	6,358.9	118.2	95.1	5.125	CC, ES, SF
Oscar Y10-77HN - Original Drilling - Original Drilling - As	6,313.5	6,264.6	117.0	74.9	2.780	CC, ES, SF

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

Noble Energy, Inc.
Anticollision Summary Report

Company:	Northern Region - DJ Basin	Local Co-ordinate Reference:	Well Bison Ridge Y22-771
Project:	Mustang	TVD Reference:	WELL @ 4961.0ft (Original Well Elev.)
Reference Site:	Y Section 10	MD Reference:	WELL @ 4961.0ft (Original Well Elev.)
Site Error:	0.0 ft	North Reference:	Grid
Reference Well:	Bison Ridge Y22-771	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	EDMP
Reference Design:	APD - Rev 0	Offset TVD Reference:	Offset Datum

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						
Y Section 10						
Oscar Y10-78-1HC - Original Drilling - APD - Rev 2	6,546.9	6,482.6	356.2	332.8	15.205	CC, ES
Oscar Y10-78-1HC - Original Drilling - APD - Rev 2	6,600.0	6,519.7	358.7	335.0	15.160	SF
Oscar Y10-78-1HC - Original Drilling - Original Drilling - A	6,550.6	6,489.7	340.7	297.9	7.952	CC, ES
Oscar Y10-78-1HC - Original Drilling - Original Drilling - A	6,600.0	6,520.7	343.2	300.0	7.945	SF
Oscar Y10-78-1HN - Original Drilling - APD - Rev 2	6,408.5	6,335.9	409.3	386.3	17.764	CC, ES, SF
Oscar Y10-78-1HN - Original Drilling - Original Drilling - As	6,441.4	6,387.4	410.3	367.1	9.494	CC, ES
Oscar Y10-78-1HN - Original Drilling - Original Drilling - As	6,500.0	6,430.1	413.3	369.6	9.476	SF
Oscar Y10-78HN - Original Drilling - APD - Rev 2	6,581.4	6,467.1	669.0	645.5	28.430	CC, ES
Oscar Y10-78HN - Original Drilling - APD - Rev 2	6,600.0	6,478.0	669.3	645.7	28.352	SF
Oscar Y10-78HN - Original Drilling - Original Drilling - As	6,577.5	6,459.0	658.7	616.2	15.492	CC, ES
Oscar Y10-78HN - Original Drilling - Original Drilling - As	6,600.0	6,472.1	659.0	616.4	15.455	SF
Oscar Y10-79-1HC - Original Drilling - APD - Rev 2	6,686.3	6,574.9	987.8	964.0	41.475	CC, ES
Oscar Y10-79-1HC - Original Drilling - APD - Rev 2	6,800.0	6,623.5	995.3	971.1	41.121	SF
Oscar Y10-79-1HC - Original Drilling - Original Drilling - A	6,660.9	6,524.3	984.9	942.0	22.978	CC, ES
Oscar Y10-79-1HC - Original Drilling - Original Drilling - A	6,700.0	6,547.0	985.7	942.6	22.890	SF
Oscar Y10-79-1HN - Original Drilling - APD - Rev 2	6,554.7	6,431.2	1,025.7	1,002.3	43.734	CC, ES
Oscar Y10-79-1HN - Original Drilling - APD - Rev 2	6,700.0	6,496.1	1,037.7	1,013.8	43.359	SF
Oscar Y10-79-1HN - Original Drilling - Original Drilling - A	6,568.7	6,455.5	1,021.6	978.9	23.942	CC, ES
Oscar Y10-79-1HN - Original Drilling - Original Drilling - A	6,700.0	6,511.0	1,031.8	988.5	23.853	SF
Oscar Y10-79HN - Original Drilling - APD - Rev 2	6,678.2	6,565.1	1,245.0	1,221.2	52.294	CC, ES
Oscar Y10-79HN - Original Drilling - APD - Rev 2	6,800.0	6,607.2	1,252.7	1,228.5	51.758	SF
Oscar Y10-79HN - Original Drilling - Original Drilling - As	6,645.1	6,516.9	1,246.7	1,203.8	29.030	CC, ES
Oscar Y10-79HN - Original Drilling - Original Drilling - As	6,800.0	6,579.3	1,258.3	1,214.7	28.850	SF
Oscar Y10-79HN - Original Drilling - ST01 - ST01 - As Dr	6,645.1	6,516.9	1,246.7	1,203.8	29.030	CC, ES
Oscar Y10-79HN - Original Drilling - ST01 - ST01 - As Dr	6,800.0	6,579.3	1,258.3	1,214.7	28.850	SF
Oscar Y11-79HN - Original Drilling - APD - Rev 1						Out of range
Oscar Y11-79HN - Original Drilling - Original Drilling - As						Out of range
Oscar Y11-79HN - ST01 Original Drilling - ST01 Original						Out of range
Y Section 15						
Feather 31-15 - Original Drilling - Original Drilling - As Dr						Out of range
UPRR 62 Pan Am B1 - Original Drilling - Original Drilling						Out of range
Y Section 22						
Acco-Terra-Bodeker 40 - Original Drilling - Original Drilling	17,065.2	6,928.0	1,304.5	1,135.3	7.713	CC, ES, SF
Goetz #1 (PA) - Original Drilling - Original Drilling - As Dr						Out of range
Goetz #2 (PA) - Original Drilling - Original Drilling - As Dr	15,398.6	6,920.0	262.9	50.2	1.236	Level 3, CC
Goetz #2 (PA) - Original Drilling - Original Drilling - As Dr	15,400.0	6,920.0	262.9	50.2	1.236	Level 3, ES, SF
Goetz Y22-06 - Original Drilling - Original Drilling - As Dr	16,445.6	6,937.7	516.2	378.5	3.750	CC, ES, SF

Noble Energy, Inc.

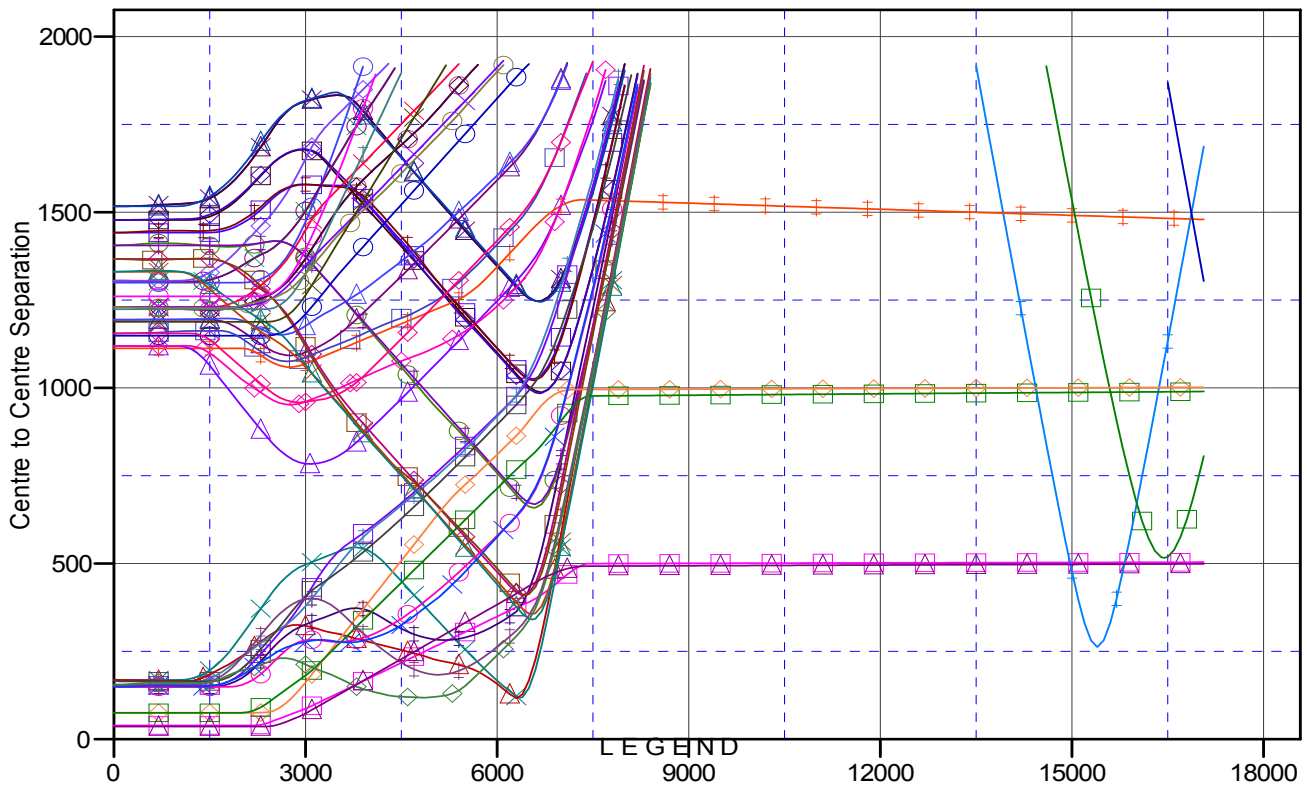
Anticollision Summary Report

Company:	Northern Region - DJ Basin	Local Co-ordinate Reference:	Well Bison Ridge Y22-771
Project:	Mustang	TVD Reference:	WELL @ 4961.0ft (Original Well Elev.)
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Site Error:	0.0 ft	North Reference:	Grid
Reference Well:	Bison Ridge Y22-771	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	EDMP
Reference Design:	APD - Rev 0	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 4961.0ft (Original Well Elev.)
Offset Depths are relative to Offset Datum
Central Meridian is -105.5000000

Coordinates are relative to: Bison Ridge Y22-771
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.62°

Ladder Plot



Drilling, APD - Rev0 V0	Oscar Y10-74-1HN, Original Drilling, APD - Rev0 V0	Accto-Terra-Bodeker 40, Original C
Drilling, APD - Rev0 V0	Oscar Y10-77HN, Original Drilling, APD - Rev2 V0	Oscar Y10-78-1HC, Original Drilling
Drilling, APD - Rev2 V0	Oscar Y10-77HN, Original Drilling, Original Drilling - As Drilled V0	Oscar Y10-78-1HC, Original Drilling
Drilling, Original Drilling - As Drilled V0	Oscar Y10-77-1HN, Original Drilling, APD0 Rev0 V0	Bison Ridge State Y22-786, Original
Drilling, Original Drilling - As Drilled V0	Oscar Y10-79-1HN, Original Drilling, APD - Rev2 V0	Bison Ridge Y22-726, Original Drilling
Drilling, Original Drilling - As Drilled V0	Oscar Y10-79-1HN, Original Drilling, Original Drilling - As Drilled V0	Oscar Y10-75-1HC, Original Drilling
Drilling, Original Drilling - As Drilled V0	Oscar Y10-78HN, Original Drilling, Original Drilling - As Drilled V0	Oscar Y10-75-1HC, Original Drilling
Drilling, APD - Rev2 V0	Oscar Y10-78HN, Original Drilling, APD - Rev2 V0	Oscar Y10-74HN, Original Drilling
Drilling, Prelim - Rev1 V0	Oscar Y10-75-1HN, Original Drilling, APD - Rev1 V0	Oscar Y10-77-1HC, Original Drilling
Drilling, Original Drilling - As Drilled V0	Oscar Y10-75-1HN, Original Drilling, Original Drilling - As Drilled V0	Oscar Y10-77-1HC, Original Drilling
Drilling, Target Change V0	Oscar Y10-76-1HN, Original Drilling, APD - Rev2 V0	Oscar Y10-76HN, Original Drilling
Drilling, APD - Rev1 V0	Oscar Y10-76-1HN, Original Drilling, Original Drilling - As Drilled V0	Oscar Y10-76HN, Original Drilling
Drilling, APD - Rev0 V0	Oscar Y10-78-1HN, Original Drilling, APD - Rev2 V0	Oscar Y10-76HN, Original Drilling

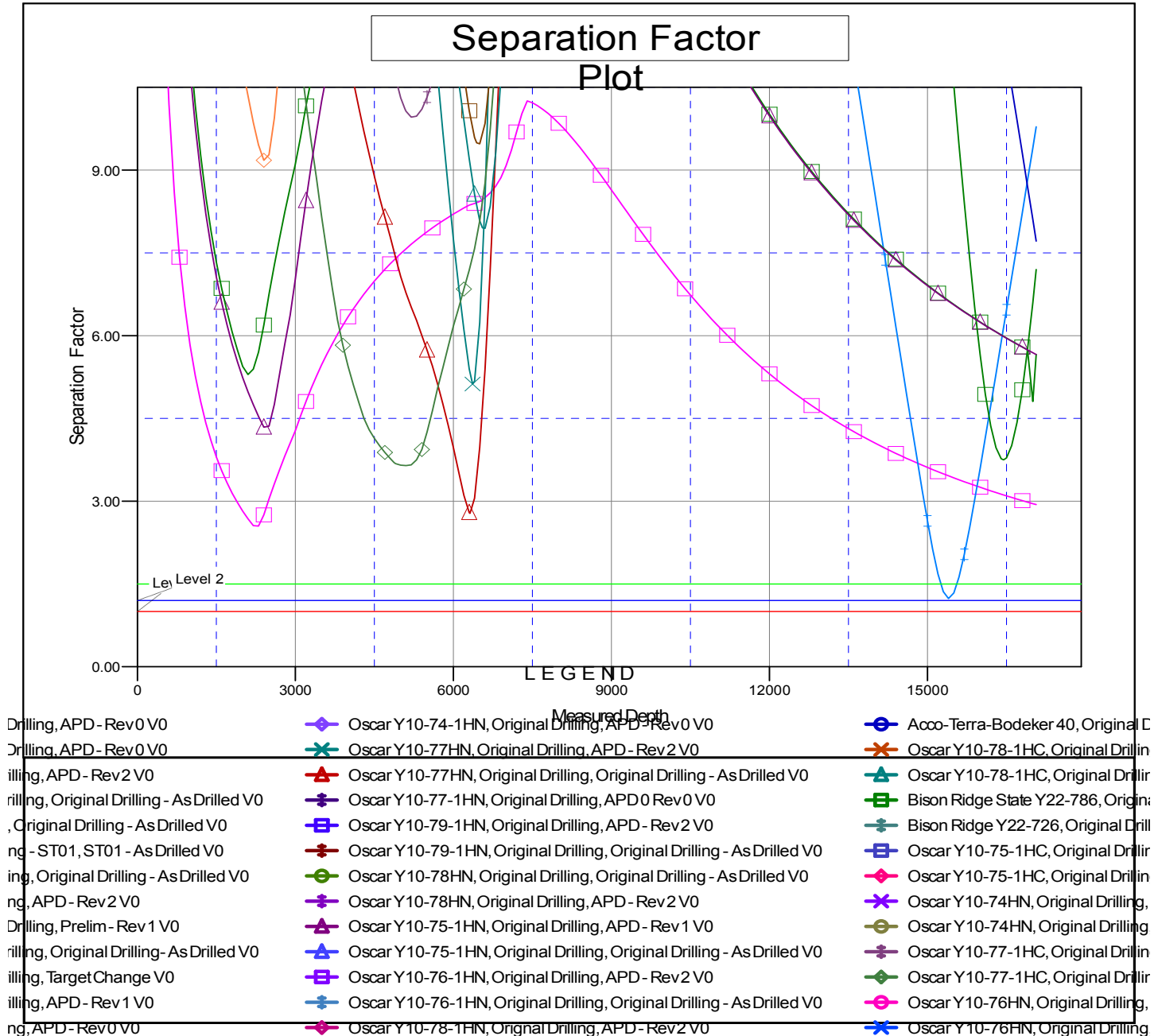
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Noble Energy, Inc.
Anticollision Summary Report

Company:	Northern Region - DJ Basin	Local Co-ordinate Reference:	Well Bison Ridge Y22-771
Project:	Mustang	TVD Reference:	WELL @ 4961.0ft (Original Well Elev.)
Reference Site:	Y Section 10	MD Reference:	WELL @ 4961.0ft (Original Well Elev.)
Site Error:	0.0 ft	North Reference:	Grid
Reference Well:	Bison Ridge Y22-771	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	EDMP
Reference Design:	APD - Rev 0	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 4961.0ft (Original Well Elev.)
Offset Depths are relative to Offset Datum
Central Meridian is -105.5000000

Coordinates are relative to: Bison Ridge Y22-771
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.62°



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