

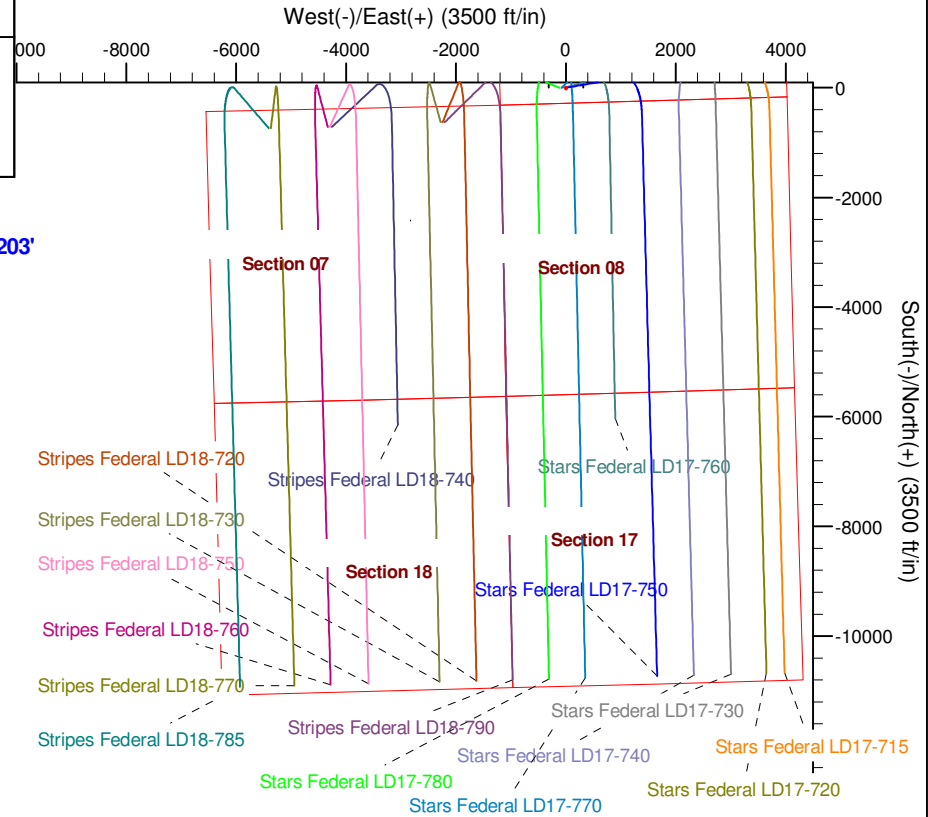
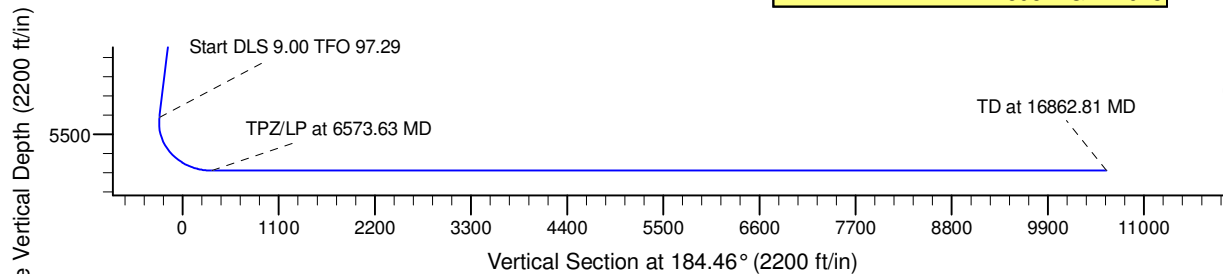
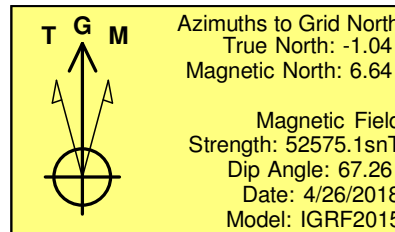
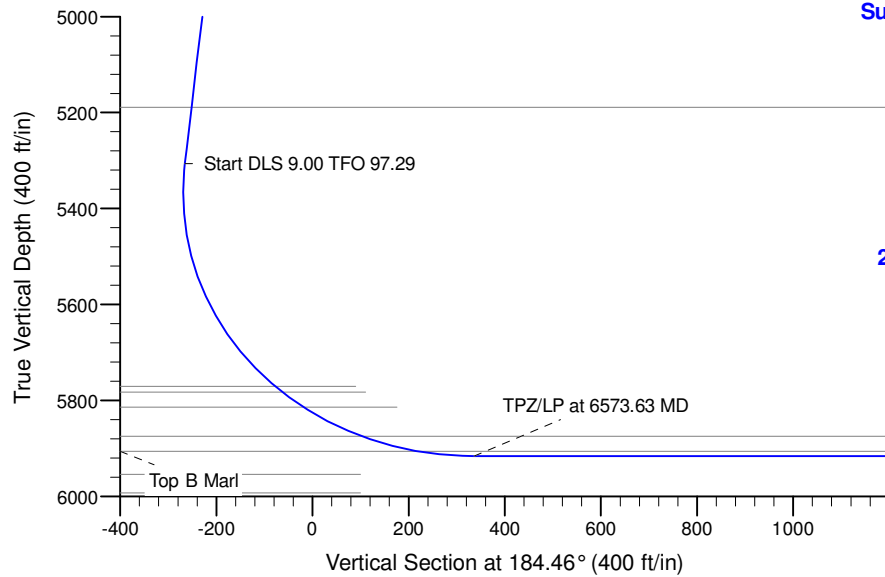
Project: East Pony
Site: LD Section 05
Well: Stars Federal LD17-750
Wellbore: Wellbore #1
Design: Plan #1

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	2400.00	0.00	0.00	2400.00	0.00	0.00	0.00	0.00	0.00	
3	3692.60	25.85	80.37	3649.19	47.98	282.66	2.00	80.37	-69.80	
4	5534.52	25.85	80.37	5306.77	182.39	1074.50	0.00	0.00	-265.32	
5	6573.63	90.00	178.46	5916.00	-444.94	1383.74	9.00	97.29	336.08	Stars Federal LD17-750 TPZ/LP
6	16862.81	90.00	178.46	5916.00	-10730.39	1660.50	0.00	0.00	10568.95	Stars Federal LD17-750 BHL



WELL DETAILS: Stars Federal LD17-750				
0.00	0.00	1528775.34	3444940.87	4833.00
				Latitude
				Longitude
				40.7738100
				-103.8934800
Plan: Plan #1 (Stars Federal LD17-750/Wellbore #1)				
Created By: Colby Baxter		Date: 8:43, June 26 2018		
Checked: _____		Date: _____		
Reviewed: _____		Date: _____		
Approved: _____		Date: _____		

Northern Region - DJ Basin

East Pony

LD Section 05

Stars Federal LD17-750

Wellbore #1

Plan: Plan #1

Standard Survey Report

26 June, 2018

Noble Energy, Inc.

Survey Report

Company:	Northern Region - DJ Basin	Local Co-ordinate Reference:	Well Stars Federal LD17-750
Project:	East Pony	TVD Reference:	Well @ 4863.00ft
Site:	LD Section 05	MD Reference:	Well @ 4863.00ft
Well:	Stars Federal LD17-750	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDMP

Project	East Pony, Weld County Colorado		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site		LD Section 05			
Site Position:		Northing:	1,528,825.19 usft	Latitude:	40.7739420
From:	Map	Easting:	3,445,036.42 usft	Longitude:	-103.8931318
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	1.04 °

Well	Stars Federal LD17-750					
Well Position	+N/-S	0.00 ft	Northing:	1,528,775.34 usft	Latitude:	40.7738100
	+E/-W	0.00 ft	Easting:	3,444,940.86 usft	Longitude:	-103.8934800
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	4,833.00 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	4/26/2018	7.67	67.26	52,575.14403306

Design	Plan #1				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.00	
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	35.00	0.00	0.00	184.46	

Survey Tool Program	Date	6/26/2018			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.00	16,862.81	Plan #1 (Wellbore #1)	2_MWD+IFR1+MS	A008Mb: IFR dec & multi-station analysis	

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00	

Noble Energy, Inc.

Survey Report

Company:	Northern Region - DJ Basin	Local Co-ordinate Reference:	Well Stars Federal LD17-750
Project:	East Pony	TVD Reference:	Well @ 4863.00ft
Site:	LD Section 05	MD Reference:	Well @ 4863.00ft
Well:	Stars Federal LD17-750	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDMP

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	2.00	80.37	2,499.98	0.29	1.72	-0.42	2.00	2.00	0.00
2,600.00	4.00	80.37	2,599.84	1.16	6.88	-1.70	2.00	2.00	0.00
2,700.00	6.00	80.37	2,699.45	2.62	15.47	-3.82	2.00	2.00	0.00
2,800.00	8.00	80.37	2,798.70	4.66	27.49	-6.79	2.00	2.00	0.00
2,900.00	10.00	80.37	2,897.47	7.28	42.91	-10.60	2.00	2.00	0.00
3,000.00	12.00	80.37	2,995.62	10.47	61.72	-15.24	2.00	2.00	0.00
3,100.00	14.00	80.37	3,093.06	14.24	83.90	-20.72	2.00	2.00	0.00
3,200.00	16.00	80.37	3,189.64	18.57	109.41	-27.02	2.00	2.00	0.00
3,300.00	18.00	80.37	3,285.27	23.46	138.24	-34.13	2.00	2.00	0.00
3,400.00	20.00	80.37	3,379.82	28.91	170.33	-42.06	2.00	2.00	0.00
3,500.00	22.00	80.37	3,473.17	34.91	205.66	-50.78	2.00	2.00	0.00
3,600.00	24.00	80.37	3,565.21	41.45	244.18	-60.29	2.00	2.00	0.00
3,692.60	25.85	80.37	3,649.19	47.98	282.66	-69.80	2.00	2.00	0.00
3,700.00	25.85	80.37	3,655.85	48.52	285.84	-70.58	0.00	0.00	0.00
3,800.00	25.85	80.37	3,745.84	55.81	328.83	-81.20	0.00	0.00	0.00
3,900.00	25.85	80.37	3,835.83	63.11	371.82	-91.81	0.00	0.00	0.00
4,000.00	25.85	80.37	3,925.82	70.41	414.81	-102.43	0.00	0.00	0.00
4,100.00	25.85	80.37	4,015.81	77.71	457.80	-113.04	0.00	0.00	0.00
4,200.00	25.85	80.37	4,105.81	85.00	500.79	-123.66	0.00	0.00	0.00
4,300.00	25.85	80.37	4,195.80	92.30	543.78	-134.27	0.00	0.00	0.00
4,400.00	25.85	80.37	4,285.79	99.60	586.77	-144.89	0.00	0.00	0.00
4,500.00	25.85	80.37	4,375.78	106.90	629.76	-155.50	0.00	0.00	0.00
4,600.00	25.85	80.37	4,465.78	114.19	672.75	-166.12	0.00	0.00	0.00
4,700.00	25.85	80.37	4,555.77	121.49	715.74	-176.73	0.00	0.00	0.00
4,800.00	25.85	80.37	4,645.76	128.79	758.73	-187.35	0.00	0.00	0.00
4,900.00	25.85	80.37	4,735.75	136.09	801.72	-197.97	0.00	0.00	0.00
5,000.00	25.85	80.37	4,825.74	143.38	844.71	-208.58	0.00	0.00	0.00
5,100.00	25.85	80.37	4,915.74	150.68	887.70	-219.20	0.00	0.00	0.00
5,200.00	25.85	80.37	5,005.73	157.98	930.69	-229.81	0.00	0.00	0.00

Noble Energy, Inc.

Survey Report

Company:	Northern Region - DJ Basin	Local Co-ordinate Reference:	Well Stars Federal LD17-750
Project:	East Pony	TVD Reference:	Well @ 4863.00ft
Site:	LD Section 05	MD Reference:	Well @ 4863.00ft
Well:	Stars Federal LD17-750	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDMP

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
5,300.00	25.85	80.37	5,095.72	165.28	973.68	-240.43	0.00	0.00	0.00	
5,400.00	25.85	80.37	5,185.71	172.57	1,016.67	-251.04	0.00	0.00	0.00	
5,500.00	25.85	80.37	5,275.71	179.87	1,059.66	-261.66	0.00	0.00	0.00	
5,534.52	25.85	80.37	5,306.77	182.39	1,074.50	-265.32	0.00	0.00	0.00	
5,600.00	25.73	93.93	5,365.78	183.81	1,102.78	-268.93	9.00	-0.19	20.72	
5,700.00	27.88	113.40	5,455.20	173.01	1,145.98	-261.52	9.00	2.15	19.47	
5,800.00	32.30	129.11	5,541.84	146.81	1,188.26	-238.69	9.00	4.42	15.71	
5,900.00	38.21	140.92	5,623.55	105.86	1,228.57	-201.00	9.00	5.91	11.81	
6,000.00	45.02	149.81	5,698.33	51.17	1,265.93	-149.37	9.00	6.81	8.90	
6,100.00	52.37	156.75	5,764.34	-15.92	1,299.42	-85.08	9.00	7.35	6.94	
6,200.00	60.05	162.41	5,819.95	-93.76	1,328.20	-9.72	9.00	7.68	5.66	
6,300.00	67.93	167.24	5,863.79	-180.43	1,351.57	74.87	9.00	7.89	4.83	
6,400.00	75.94	171.56	5,894.78	-273.79	1,368.95	166.60	9.00	8.01	4.32	
6,500.00	84.03	175.58	5,912.17	-371.55	1,379.92	263.22	9.00	8.08	4.02	
6,573.63	90.00	178.46	5,916.00	-444.94	1,383.74	336.08	9.00	8.11	3.91	
6,600.00	90.00	178.46	5,916.00	-471.30	1,384.45	362.31	0.00	0.00	0.00	
6,700.00	90.00	178.46	5,916.00	-571.26	1,387.14	461.77	0.00	0.00	0.00	
6,800.00	90.00	178.46	5,916.00	-671.23	1,389.83	561.22	0.00	0.00	0.00	
6,900.00	90.00	178.46	5,916.00	-771.19	1,392.52	660.67	0.00	0.00	0.00	
7,000.00	90.00	178.46	5,916.00	-871.16	1,395.21	760.12	0.00	0.00	0.00	
7,100.00	90.00	178.46	5,916.00	-971.12	1,397.90	859.58	0.00	0.00	0.00	
7,200.00	90.00	178.46	5,916.00	-1,071.08	1,400.59	959.03	0.00	0.00	0.00	
7,300.00	90.00	178.46	5,916.00	-1,171.05	1,403.28	1,058.48	0.00	0.00	0.00	
7,400.00	90.00	178.46	5,916.00	-1,271.01	1,405.97	1,157.93	0.00	0.00	0.00	
7,500.00	90.00	178.46	5,916.00	-1,370.97	1,408.66	1,257.39	0.00	0.00	0.00	
7,600.00	90.00	178.46	5,916.00	-1,470.94	1,411.35	1,356.84	0.00	0.00	0.00	
7,700.00	90.00	178.46	5,916.00	-1,570.90	1,414.04	1,456.29	0.00	0.00	0.00	
7,800.00	90.00	178.46	5,916.00	-1,670.87	1,416.73	1,555.75	0.00	0.00	0.00	
7,900.00	90.00	178.46	5,916.00	-1,770.83	1,419.42	1,655.20	0.00	0.00	0.00	
8,000.00	90.00	178.46	5,916.00	-1,870.79	1,422.11	1,754.65	0.00	0.00	0.00	
8,100.00	90.00	178.46	5,916.00	-1,970.76	1,424.80	1,854.10	0.00	0.00	0.00	
8,200.00	90.00	178.46	5,916.00	-2,070.72	1,427.49	1,953.56	0.00	0.00	0.00	
8,300.00	90.00	178.46	5,916.00	-2,170.69	1,430.18	2,053.01	0.00	0.00	0.00	
8,400.00	90.00	178.46	5,916.00	-2,270.65	1,432.87	2,152.46	0.00	0.00	0.00	
8,500.00	90.00	178.46	5,916.00	-2,370.61	1,435.56	2,251.91	0.00	0.00	0.00	
8,600.00	90.00	178.46	5,916.00	-2,470.58	1,438.24	2,351.37	0.00	0.00	0.00	
8,700.00	90.00	178.46	5,916.00	-2,570.54	1,440.93	2,450.82	0.00	0.00	0.00	
8,800.00	90.00	178.46	5,916.00	-2,670.50	1,443.62	2,550.27	0.00	0.00	0.00	
8,900.00	90.00	178.46	5,916.00	-2,770.47	1,446.31	2,649.72	0.00	0.00	0.00	
9,000.00	90.00	178.46	5,916.00	-2,870.43	1,449.00	2,749.18	0.00	0.00	0.00	
9,100.00	90.00	178.46	5,916.00	-2,970.40	1,451.69	2,848.63	0.00	0.00	0.00	
9,200.00	90.00	178.46	5,916.00	-3,070.36	1,454.38	2,948.08	0.00	0.00	0.00	
9,300.00	90.00	178.46	5,916.00	-3,170.32	1,457.07	3,047.54	0.00	0.00	0.00	

Noble Energy, Inc.

Survey Report

Company:	Northern Region - DJ Basin	Local Co-ordinate Reference:	Well Stars Federal LD17-750
Project:	East Pony	TVD Reference:	Well @ 4863.00ft
Site:	LD Section 05	MD Reference:	Well @ 4863.00ft
Well:	Stars Federal LD17-750	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDMP

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,400.00	90.00	178.46	5,916.00	-3,270.29	1,459.76	3,146.99	0.00	0.00	0.00
9,500.00	90.00	178.46	5,916.00	-3,370.25	1,462.45	3,246.44	0.00	0.00	0.00
9,600.00	90.00	178.46	5,916.00	-3,470.21	1,465.14	3,345.89	0.00	0.00	0.00
9,700.00	90.00	178.46	5,916.00	-3,570.18	1,467.83	3,445.35	0.00	0.00	0.00
9,800.00	90.00	178.46	5,916.00	-3,670.14	1,470.52	3,544.80	0.00	0.00	0.00
9,900.00	90.00	178.46	5,916.00	-3,770.11	1,473.21	3,644.25	0.00	0.00	0.00
10,000.00	90.00	178.46	5,916.00	-3,870.07	1,475.90	3,743.70	0.00	0.00	0.00
10,100.00	90.00	178.46	5,916.00	-3,970.03	1,478.59	3,843.16	0.00	0.00	0.00
10,200.00	90.00	178.46	5,916.00	-4,070.00	1,481.28	3,942.61	0.00	0.00	0.00
10,300.00	90.00	178.46	5,916.00	-4,169.96	1,483.97	4,042.06	0.00	0.00	0.00
10,400.00	90.00	178.46	5,916.00	-4,269.93	1,486.66	4,141.52	0.00	0.00	0.00
10,500.00	90.00	178.46	5,916.00	-4,369.89	1,489.35	4,240.97	0.00	0.00	0.00
10,600.00	90.00	178.46	5,916.00	-4,469.85	1,492.04	4,340.42	0.00	0.00	0.00
10,700.00	90.00	178.46	5,916.00	-4,569.82	1,494.73	4,439.87	0.00	0.00	0.00
10,800.00	90.00	178.46	5,916.00	-4,669.78	1,497.42	4,539.33	0.00	0.00	0.00
10,900.00	90.00	178.46	5,916.00	-4,769.74	1,500.11	4,638.78	0.00	0.00	0.00
11,000.00	90.00	178.46	5,916.00	-4,869.71	1,502.80	4,738.23	0.00	0.00	0.00
11,100.00	90.00	178.46	5,916.00	-4,969.67	1,505.49	4,837.68	0.00	0.00	0.00
11,200.00	90.00	178.46	5,916.00	-5,069.64	1,508.18	4,937.14	0.00	0.00	0.00
11,300.00	90.00	178.46	5,916.00	-5,169.60	1,510.87	5,036.59	0.00	0.00	0.00
11,400.00	90.00	178.46	5,916.00	-5,269.56	1,513.56	5,136.04	0.00	0.00	0.00
11,500.00	90.00	178.46	5,916.00	-5,369.53	1,516.25	5,235.49	0.00	0.00	0.00
11,600.00	90.00	178.46	5,916.00	-5,469.49	1,518.94	5,334.95	0.00	0.00	0.00
11,700.00	90.00	178.46	5,916.00	-5,569.45	1,521.63	5,434.40	0.00	0.00	0.00
11,800.00	90.00	178.46	5,916.00	-5,669.42	1,524.32	5,533.85	0.00	0.00	0.00
11,900.00	90.00	178.46	5,916.00	-5,769.38	1,527.01	5,633.31	0.00	0.00	0.00
12,000.00	90.00	178.46	5,916.00	-5,869.35	1,529.70	5,732.76	0.00	0.00	0.00
12,100.00	90.00	178.46	5,916.00	-5,969.31	1,532.39	5,832.21	0.00	0.00	0.00
12,200.00	90.00	178.46	5,916.00	-6,069.27	1,535.08	5,931.66	0.00	0.00	0.00
12,300.00	90.00	178.46	5,916.00	-6,169.24	1,537.77	6,031.12	0.00	0.00	0.00
12,400.00	90.00	178.46	5,916.00	-6,269.20	1,540.46	6,130.57	0.00	0.00	0.00
12,500.00	90.00	178.46	5,916.00	-6,369.17	1,543.15	6,230.02	0.00	0.00	0.00
12,600.00	90.00	178.46	5,916.00	-6,469.13	1,545.84	6,329.47	0.00	0.00	0.00
12,700.00	90.00	178.46	5,916.00	-6,569.09	1,548.53	6,428.93	0.00	0.00	0.00
12,800.00	90.00	178.46	5,916.00	-6,669.06	1,551.22	6,528.38	0.00	0.00	0.00
12,900.00	90.00	178.46	5,916.00	-6,769.02	1,553.91	6,627.83	0.00	0.00	0.00
13,000.00	90.00	178.46	5,916.00	-6,868.98	1,556.60	6,727.29	0.00	0.00	0.00
13,100.00	90.00	178.46	5,916.00	-6,968.95	1,559.29	6,826.74	0.00	0.00	0.00
13,200.00	90.00	178.46	5,916.00	-7,068.91	1,561.98	6,926.19	0.00	0.00	0.00
13,300.00	90.00	178.46	5,916.00	-7,168.88	1,564.67	7,025.64	0.00	0.00	0.00
13,400.00	90.00	178.46	5,916.00	-7,268.84	1,567.36	7,125.10	0.00	0.00	0.00
13,500.00	90.00	178.46	5,916.00	-7,368.80	1,570.05	7,224.55	0.00	0.00	0.00
13,600.00	90.00	178.46	5,916.00	-7,468.77	1,572.74	7,324.00	0.00	0.00	0.00

Noble Energy, Inc.

Survey Report

Company:	Northern Region - DJ Basin	Local Co-ordinate Reference:	Well Stars Federal LD17-750
Project:	East Pony	TVD Reference:	Well @ 4863.00ft
Site:	LD Section 05	MD Reference:	Well @ 4863.00ft
Well:	Stars Federal LD17-750	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDMP

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
13,700.00	90.00	178.46	5,916.00	-7,568.73	1,575.43	7,423.45	0.00	0.00	0.00
13,800.00	90.00	178.46	5,916.00	-7,668.70	1,578.12	7,522.91	0.00	0.00	0.00
13,900.00	90.00	178.46	5,916.00	-7,768.66	1,580.81	7,622.36	0.00	0.00	0.00
14,000.00	90.00	178.46	5,916.00	-7,868.62	1,583.50	7,721.81	0.00	0.00	0.00
14,100.00	90.00	178.46	5,916.00	-7,968.59	1,586.19	7,821.27	0.00	0.00	0.00
14,200.00	90.00	178.46	5,916.00	-8,068.55	1,588.88	7,920.72	0.00	0.00	0.00
14,300.00	90.00	178.46	5,916.00	-8,168.51	1,591.57	8,020.17	0.00	0.00	0.00
14,400.00	90.00	178.46	5,916.00	-8,268.48	1,594.26	8,119.62	0.00	0.00	0.00
14,500.00	90.00	178.46	5,916.00	-8,368.44	1,596.95	8,219.08	0.00	0.00	0.00
14,600.00	90.00	178.46	5,916.00	-8,468.41	1,599.64	8,318.53	0.00	0.00	0.00
14,700.00	90.00	178.46	5,916.00	-8,568.37	1,602.33	8,417.98	0.00	0.00	0.00
14,800.00	90.00	178.46	5,916.00	-8,668.33	1,605.02	8,517.43	0.00	0.00	0.00
14,900.00	90.00	178.46	5,916.00	-8,768.30	1,607.71	8,616.89	0.00	0.00	0.00
15,000.00	90.00	178.46	5,916.00	-8,868.26	1,610.40	8,716.34	0.00	0.00	0.00
15,100.00	90.00	178.46	5,916.00	-8,968.22	1,613.09	8,815.79	0.00	0.00	0.00
15,200.00	90.00	178.46	5,916.00	-9,068.19	1,615.78	8,915.24	0.00	0.00	0.00
15,300.00	90.00	178.46	5,916.00	-9,168.15	1,618.47	9,014.70	0.00	0.00	0.00
15,400.00	90.00	178.46	5,916.00	-9,268.12	1,621.16	9,114.15	0.00	0.00	0.00
15,500.00	90.00	178.46	5,916.00	-9,368.08	1,623.85	9,213.60	0.00	0.00	0.00
15,600.00	90.00	178.46	5,916.00	-9,468.04	1,626.54	9,313.06	0.00	0.00	0.00
15,700.00	90.00	178.46	5,916.00	-9,568.01	1,629.23	9,412.51	0.00	0.00	0.00
15,800.00	90.00	178.46	5,916.00	-9,667.97	1,631.92	9,511.96	0.00	0.00	0.00
15,900.00	90.00	178.46	5,916.00	-9,767.94	1,634.61	9,611.41	0.00	0.00	0.00
16,000.00	90.00	178.46	5,916.00	-9,867.90	1,637.30	9,710.87	0.00	0.00	0.00
16,100.00	90.00	178.46	5,916.00	-9,967.86	1,639.99	9,810.32	0.00	0.00	0.00
16,200.00	90.00	178.46	5,916.00	-10,067.83	1,642.68	9,909.77	0.00	0.00	0.00
16,300.00	90.00	178.46	5,916.00	-10,167.79	1,645.37	10,009.22	0.00	0.00	0.00
16,400.00	90.00	178.46	5,916.00	-10,267.75	1,648.06	10,108.68	0.00	0.00	0.00
16,500.00	90.00	178.46	5,916.00	-10,367.72	1,650.75	10,208.13	0.00	0.00	0.00
16,600.00	90.00	178.46	5,916.00	-10,467.68	1,653.44	10,307.58	0.00	0.00	0.00
16,700.00	90.00	178.46	5,916.00	-10,567.65	1,656.13	10,407.04	0.00	0.00	0.00
16,800.00	90.00	178.46	5,916.00	-10,667.61	1,658.82	10,506.49	0.00	0.00	0.00
16,862.81	90.00	178.46	5,916.00	-10,730.39	1,660.50	10,568.95	0.00	0.00	0.00

Noble Energy, Inc.

Survey Report

Company:	Northern Region - DJ Basin	Local Co-ordinate Reference:	Well Stars Federal LD17-750
Project:	East Pony	TVD Reference:	Well @ 4863.00ft
Site:	LD Section 05	MD Reference:	Well @ 4863.00ft
Well:	Stars Federal LD17-750	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDMP

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Stars Federal LD17-750 - plan hits target center - Point	0.00	0.00	5,916.00	-10,730.39	1,660.50	1,518,044.98	3,446,601.37	40.7442800	-103.8881900
Stars Federal LD17-750 - plan hits target center - Point	0.00	0.00	5,916.00	-444.94	1,383.74	1,528,330.41	3,446,324.60	40.7725201	-103.8885141

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
516.00	516.00	Pierre			
890.00	890.00	Upper Pierre Aquifer Top			
1,514.00	1,514.00	Upper Pierre Aquifer Base			
3,384.25	3,365.00	Parkman			
4,009.09	3,934.00	Sussex			
4,598.03	4,464.00	Shannon			
5,403.65	5,189.00	Teepee Buttes			
6,111.01	5,771.00	Sharon Springs			
6,131.41	5,783.00	Top A Chalk			
6,188.24	5,814.00	Top A Marl			
6,331.55	5,875.00	Top B Chalk			
6,454.62	5,906.00	Top B Marl			

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
2400	2400	0	0	Start Build 2.00
5535	5307	48	283	Start DLS 9.00 TFO 97.29
6574	5916	182	1074	TPZ/LP at 6573.63 MD
16,863	5916	-445	1384	TD at 16862.81 MD

Checked By: _____ Approved By: _____ Date: _____

Northern Region - DJ Basin

East Pony

LD Section 05

Stars Federal LD17-750

Wellbore #1

Plan #1

Anticollision Summary Report

26 June, 2018

Noble Energy, Inc.
Anticollision Summary Report

Company:	Northern Region - DJ Basin	Local Co-ordinate Reference:	Well Stars Federal LD17-750
Project:	East Pony	TVD Reference:	Well @ 4863.00ft
Reference Site:	LD Section 05	MD Reference:	Well @ 4863.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Stars Federal LD17-750	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDMP
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Reference	Plan #1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 10,000.00 ft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date 6/26/2018			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.00	16,862.81	Plan #1 (Wellbore #1)	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						
LD Section 04						
Alice Nay 1 (Exist) - Original Drilling - As Drilled						Out of range
Rohn PC LD04-03 - Wellbore #1 - Wellbore #1- As Drille	5,875.29	5,509.30	6,492.98	6,452.23	159.363	CC, ES
Rohn PC LD04-03 - Wellbore #1 - Wellbore #1- As Drille	6,400.00	5,756.08	6,655.65	6,612.10	152.820	SF
Rohn State LD03-62-1HN - Original Drilling - Original Dri	6,477.25	5,048.00	7,774.05	7,735.82	203.339	CC, ES
Rohn State LD03-62-1HN - Original Drilling - Original Dri	12,100.00	5,048.00	9,827.21	9,760.93	148.254	SF
Rohn State LD03-62HN - Original Drilling - Original Drillin	6,414.08	4,953.00	7,821.61	7,785.38	215.884	CC, ES
Rohn State LD03-62HN - Original Drilling - Original Drillin	12,000.00	4,953.00	9,985.77	9,922.10	156.841	SF
Rohn State LD03-63-1HN - Original Drilling - Original Dri	6,351.91	5,000.00	7,835.05	7,798.18	212.460	CC, ES
Rohn State LD03-63-1HN - Original Drilling - Original Dri	11,600.00	5,023.74	9,938.19	9,876.50	161.114	SF
Rohn State LD03-63HN - Original Drilling - Original Drillin	6,288.82	5,102.01	7,921.30	7,881.53	199.143	CC, ES
Rohn State LD03-63HN - Original Drilling - Original Drillin	11,200.00	5,102.01	9,970.67	9,908.22	159.670	SF
Rohn State LD03-64-1HN - Original Drilling - Original Dri	6,259.42	5,102.01	7,977.79	7,939.56	208.694	CC, ES
Rohn State LD03-64-1HN - Original Drilling - Original Dri	11,000.00	5,102.01	9,989.82	9,929.68	166.094	SF
Rohn State LD03-64HN - Original Drilling - Original Drillin	6,193.41	5,007.00	7,918.54	7,882.32	218.589	CC
Rohn State LD03-64HN - Original Drilling - Original Drillin	6,200.00	5,007.00	7,918.56	7,882.31	218.451	ES
Rohn State LD03-64HN - Original Drilling - Original Drillin	10,700.00	5,007.00	9,937.60	9,881.34	176.630	SF
Rohn State LD03-65-1HN - Original Drilling - Original Dri	6,168.27	5,105.00	8,066.42	8,029.60	219.125	CC, ES
Rohn State LD03-65-1HN - Original Drilling - Original Dri	10,400.00	5,105.00	9,984.55	9,929.47	181.273	SF
Rohn State LD03-65HN - Original Drilling - Original Drillin	6,115.19	5,171.52	8,204.59	8,163.45	199.451	CC, ES
Rohn State LD03-65HN - Original Drilling - Original Drillin	9,900.00	5,240.00	9,967.49	9,910.58	175.142	SF
Rohn State LD03-66-1HN - Original Drilling - Original Dri	6,081.37	5,073.34	8,280.15	8,241.79	215.854	CC, ES
Rohn State LD03-66-1HN - Original Drilling - Original Dri	9,600.00	5,098.00	9,940.71	9,887.95	188.404	SF
Rohn State LD03-66HN - Original Drilling - Original Drillin	6,059.11	5,051.00	8,382.24	8,345.44	227.831	CC, ES
Rohn State LD03-66HN - Original Drilling - Original Drillin	9,400.00	5,073.80	9,982.03	9,931.57	197.839	SF
Rohn State LD04-62-1HN - Original Drilling - Original Dri	6,403.49	9,541.00	3,388.06	3,342.63	74.574	CC, ES
Rohn State LD04-62-1HN - Original Drilling - Original Dri	9,100.00	9,541.00	4,543.94	4,440.95	44.121	SF
Rohn State LD04-62HN - Original Drilling - Original Drillin	6,315.84	9,580.00	3,411.12	3,361.21	68.343	CC
Rohn State LD04-62HN - Original Drilling - Original Drillin	6,350.00	9,580.00	3,411.71	3,361.05	67.337	ES
Rohn State LD04-62HN - Original Drilling - Original Drillin	8,700.00	9,580.00	4,483.58	4,381.51	43.926	SF
Rohn State LD04-63-1HN - Original Drilling - Original Dri	6,259.00	9,834.00	3,463.41	3,407.16	61.578	CC
Rohn State LD04-63-1HN - Original Drilling - Original Dri	6,300.00	9,834.00	3,464.33	3,407.06	60.498	ES
Rohn State LD04-63-1HN - Original Drilling - Original Dri	8,400.00	9,834.00	4,459.77	4,355.94	42.953	SF
Rohn State LD04-63HN - Original Drilling - Original Drillin	6,169.47	9,758.00	3,546.49	3,489.06	61.748	CC
Rohn State LD04-63HN - Original Drilling - Original Drillin	6,200.00	9,758.00	3,547.01	3,488.88	61.012	ES
Rohn State LD04-63HN - Original Drilling - Original Drillin	8,300.00	9,758.00	4,618.46	4,516.39	45.248	SF
Rohn State LD04-64-1HN - Original Drilling - Original Dri	6,091.61	9,566.00	3,665.01	3,600.75	57.032	CC
Rohn State LD04-64-1HN - Original Drilling - Original Dri	6,100.00	9,566.00	3,665.05	3,600.60	56.868	ES

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 Stars Federal LD17-750
Project:	East Pony	TVD Reference:	Well @ 4863.00ft
Reference Site:	LD Section 05	MD Reference:	Well @ 4863.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Stars Federal LD17-750	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDMP
Reference Design:	Plan #1	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						
LD Section 04						
Rohn State LD04-64-1HN - Original Drilling - Original Dri	7,800.00	9,566.00	4,515.28	4,416.92	45.905	SF
Rohn State LD04-64HN - Original Drilling - Original Drillin	6,044.31	9,476.00	3,807.96	3,737.25	53.851	CC
Rohn State LD04-64HN - Original Drilling - Original Drillin	6,050.00	9,476.00	3,807.98	3,737.15	53.762	ES
Rohn State LD04-64HN - Original Drilling - Original Drillin	7,500.00	9,476.00	4,541.56	4,443.89	46.499	SF
Rohn State LD04-65-1HN - Wellbore #1 - Wellbore #1- A	5,992.67	9,578.00	3,943.87	3,864.40	49.626	CC
Rohn State LD04-65-1HN - Wellbore #1 - Wellbore #1- A	6,000.00	9,578.00	3,943.90	3,864.29	49.536	ES
Rohn State LD04-65-1HN - Wellbore #1 - Wellbore #1- A	7,100.00	9,578.00	4,473.37	4,373.69	44.880	SF
Rohn State LD04-65HN - Wellbore #1 - Wellbore #1- As	5,966.11	9,648.02	4,132.61	4,055.12	53.331	CC, ES
Rohn State LD04-65HN - Wellbore #1 - Wellbore #1- As	6,900.00	9,648.02	4,570.95	4,477.79	49.066	SF
Rohn State LD04-66-1HN - Wellbore #1 - Wellbore #1- A	5,925.59	9,580.02	4,311.93	4,228.73	51.829	CC
Rohn State LD04-66-1HN - Wellbore #1 - Wellbore #1- A	5,950.00	9,580.02	4,312.33	4,228.73	51.583	ES
Rohn State LD04-66-1HN - Wellbore #1 - Wellbore #1- A	6,573.63	9,580.02	4,562.94	4,469.08	48.612	SF
Rohn State LD04-66HN - Original Drilling - Original Drilli	5,905.10	9,628.00	4,507.79	4,418.71	50.602	CC, ES
Rohn State LD04-66HN - Original Drilling - Original Drilli	6,450.00	9,628.00	4,698.09	4,600.42	48.100	SF
Rohn State LD04-67-1HN - Original Drilling - Original Dri	5,870.31	9,583.02	4,728.05	4,632.53	49.497	CC, ES
Rohn State LD04-67-1HN - Original Drilling - Original Dri	6,400.00	9,583.02	4,911.80	4,808.66	47.622	SF
Rohn State LD04-67HN - Original Drilling - As Drilled	5,768.68	5,155.01	4,907.92	4,867.43	121.213	CC, ES
Rohn State LD04-67HN - Original Drilling - As Drilled	6,050.00	5,155.01	4,962.15	4,920.62	119.497	SF
Rohn State LD04-68-1HN - Original Drilling - As Drilled	5,745.48	5,060.01	5,103.77	5,065.62	133.792	CC
Rohn State LD04-68-1HN - Original Drilling - As Drilled	5,750.00	5,060.01	5,103.78	5,065.61	133.722	ES
Rohn State LD04-68-1HN - Original Drilling - As Drilled	6,150.00	5,154.01	5,214.71	5,174.66	130.211	SF
Rohn State LD04-68HN - Wellbore #1 - Wellbore #1- As	5,743.47	5,062.01	5,328.31	5,290.84	142.217	CC, ES
Rohn State LD04-68HN - Wellbore #1 - Wellbore #1- As	6,100.00	5,112.63	5,414.78	5,375.81	138.970	SF
Rohn State LD09-69HN - Original Drilling - Original Drillin	6,528.94	9,710.00	3,334.25	3,288.31	72.584	CC, ES
Rohn State LD09-69HN - Original Drilling - Original Drillin	9,500.00	9,710.00	4,531.70	4,429.70	44.429	SF
Rohn State LD10-69HN - Original Drilling - Original Drillin	6,540.14	5,144.00	7,723.99	7,682.53	186.311	CC, ES
Rohn State LD10-69HN - Original Drilling - Original Drillin	12,000.00	5,167.69	9,539.51	9,470.57	138.371	SF

Noble Energy, Inc.
Anticollision Summary Report

Company:	Northern Region - DJ Basin	Local Co-ordinate Reference:	Well Stars Federal LD17-750
Project:	East Pony	TVD Reference:	Well @ 4863.00ft
Reference Site:	LD Section 05	MD Reference:	Well @ 4863.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Stars Federal LD17-750	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDMP
Reference Design:	Plan #1	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						
LD Section 05						
Heston LD06-620 - Original Drilling - Original Drilling - As	6,142.63	8,721.21	206.07	158.03	4.290	CC
Heston LD06-620 - Original Drilling - Original Drilling - As	6,150.00	8,719.20	206.23	157.30	4.215	ES
Heston LD06-620 - Original Drilling - Original Drilling - As	6,200.00	8,706.40	215.69	161.28	3.964	SF
Heston LD06-620 - ST01 - Original Drilling - ST01 - As D	6,100.86	8,723.96	262.38	216.58	5.729	CC, ES
Heston LD06-620 - ST01 - Original Drilling - ST01 - As D	6,200.00	8,697.85	286.02	232.13	5.308	SF
Heston LD06-625 - Original Drilling - Original Drilling - As	5,867.44	8,731.57	682.02	614.93	10.166	CC, ES
Heston LD06-625 - Original Drilling - Original Drilling - As	6,000.00	8,683.49	706.22	634.31	9.821	SF
Heston LD06-630 - Original Drilling - Original Drilling - As	5,763.13	8,879.39	1,198.81	1,138.83	19.990	CC, ES
Heston LD06-630 - Original Drilling - Original Drilling - As	5,850.00	8,839.97	1,207.19	1,146.08	19.755	SF
Nugent LD06-655 - Original Drilling - Original Drilling - As	5,675.76	8,752.11	2,601.50	2,545.15	46.174	CC, ES
Nugent LD06-655 - Original Drilling - Original Drilling - As	5,750.00	8,723.03	2,606.68	2,550.13	46.093	SF
Nugent LD06-665 - Original Drilling - Original Drilling - As	5,665.22	8,714.62	3,246.68	3,191.56	58.907	CC, ES
Nugent LD06-665 - Original Drilling - Original Drilling - As	5,750.00	8,687.98	3,253.26	3,197.91	58.775	SF
Reagan LD06-675 - Original Drilling - Original Drilling - A	5,643.76	8,748.17	3,889.72	3,828.52	63.560	CC, ES
Reagan LD06-675 - Original Drilling - Original Drilling - A	5,700.00	8,727.81	3,892.54	3,831.26	63.518	SF
Reagan LD06-685 - Original Drilling - Original Drilling - A	5,650.00	8,647.86	4,477.07	4,422.61	82.207	ES, SF
Reagan LD06-685 - Original Drilling - Original Drilling - A	5,698.51	7,930.81	4,475.97	4,428.92	95.131	CC
Stars Federal LD17-715 - Wellbore #1 - Plan #1	6,112.28	5,109.66	2,232.25	2,192.00	55.463	CC
Stars Federal LD17-715 - Wellbore #1 - Plan #1	16,862.81	16,666.84	2,322.40	2,137.09	12.532	ES, SF
Stars Federal LD17-720 - Wellbore #1 - Plan #1	6,281.25	5,572.00	1,993.14	1,950.66	46.910	CC
Stars Federal LD17-720 - Wellbore #1 - Plan #1	16,862.81	16,507.91	1,996.02	1,810.25	10.745	ES, SF
Stars Federal LD17-730 - Wellbore #1 - Plan #1	16,862.81	16,512.72	1,346.95	1,162.03	7.284	CC, ES, SF
Stars Federal LD17-740 - Wellbore #1 - Plan #1	16,862.81	16,505.43	674.36	489.12	3.640	CC, ES, SF
Stars Federal LD17-760 - Wellbore #1 - Plan #1	2,766.85	2,770.96	10.73	-8.56	0.556	Level 1, CC, ES, SF
Stars Federal LD17-770 - Wellbore #1 - Plan #1	2,402.75	2,403.83	74.78	58.02	4.461	CC
Stars Federal LD17-770 - Wellbore #1 - Plan #1	2,500.00	2,502.90	75.22	57.77	4.310	ES
Stars Federal LD17-770 - Wellbore #1 - Plan #1	2,600.00	2,604.70	76.68	58.54	4.227	SF
Stars Federal LD17-780 - Wellbore #1 - Plan #1	2,400.00	2,402.00	110.79	94.04	6.616	CC, ES
Stars Federal LD17-780 - Wellbore #1 - Plan #1	2,500.00	2,498.39	114.13	96.70	6.548	SF
LD Section 06						
Timbro LD06-64HN - Wellbore #1 - Wellbore #1- As Drille	5,726.21	13,189.30	1,639.66	1,422.20	7.540	CC
Timbro LD06-64HN - Wellbore #1 - Wellbore #1- As Drille	5,750.00	13,198.00	1,640.25	1,421.75	7.507	ES
Timbro LD06-64HN - Wellbore #1 - Wellbore #1- As Drille	5,900.00	13,281.37	1,670.34	1,445.42	7.426	SF

Noble Energy, Inc.
Anticollision Summary Report

Company:	Northern Region - DJ Basin	Local Co-ordinate Reference:	Well Stars Federal LD17-750
Project:	East Pony	TVD Reference:	Well @ 4863.00ft
Reference Site:	LD Section 05	MD Reference:	Well @ 4863.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Stars Federal LD17-750	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDMP
Reference Design:	Plan #1	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						
LD Section 07						
Stripes Federal LD18-720 - Wellbore #1 - Plan #1	2,866.12	3,286.87	2,283.38	2,262.11	107.325	CC
Stripes Federal LD18-720 - Wellbore #1 - Plan #1	2,900.00	3,319.73	2,283.60	2,262.08	106.147	ES
Stripes Federal LD18-720 - Wellbore #1 - Plan #1	16,862.81	16,736.10	3,289.49	3,107.48	18.073	SF
Stripes Federal LD18-730 - Wellbore #1 - Plan #1	2,301.24	2,333.24	2,364.02	2,347.88	146.404	CC
Stripes Federal LD18-730 - Wellbore #1 - Plan #1	2,400.00	2,431.91	2,364.02	2,347.17	140.259	ES
Stripes Federal LD18-730 - Wellbore #1 - Plan #1	16,862.81	16,712.99	3,959.88	3,777.94	21.765	SF
Stripes Federal LD18-740 - Wellbore #1 - Plan #1	3,388.60	4,904.22	4,010.97	3,982.18	139.327	CC
Stripes Federal LD18-740 - Wellbore #1 - Plan #1	3,400.00	4,915.30	4,010.99	3,982.12	138.900	ES
Stripes Federal LD18-740 - Wellbore #1 - Plan #1	12,700.00	12,169.72	4,627.13	4,517.35	42.149	SF
Stripes Federal LD18-750 - Wellbore #1 - Plan #1	2,924.07	3,755.95	4,317.66	4,294.58	187.030	CC, ES
Stripes Federal LD18-750 - Wellbore #1 - Plan #1	16,862.81	16,728.38	5,253.94	5,072.19	28.908	SF
Stripes Federal LD18-760 - Wellbore #1 - Plan #1	2,200.00	2,209.00	4,391.66	4,376.32	286.307	CC
Stripes Federal LD18-760 - Wellbore #1 - Plan #1	2,400.00	2,382.71	4,392.29	4,375.61	263.406	ES
Stripes Federal LD18-760 - Wellbore #1 - Plan #1	16,862.81	16,716.10	5,943.98	5,761.85	32.637	SF
Stripes Federal LD18-770 - Wellbore #1 - Plan #1	2,408.49	2,433.54	5,419.82	5,402.93	320.884	CC
Stripes Federal LD18-770 - Wellbore #1 - Plan #1	2,500.00	2,608.71	5,420.57	5,402.74	303.960	ES
Stripes Federal LD18-770 - Wellbore #1 - Plan #1	16,859.98	16,678.90	6,603.51	6,421.46	36.274	SF
Stripes Federal LD18-785 - Wellbore #1 - Plan #1	2,200.00	2,209.00	5,457.07	5,441.73	355.765	CC, ES
Stripes Federal LD18-785 - Wellbore #1 - Plan #1	16,862.81	16,763.79	7,592.76	7,410.65	41.695	SF
Stripes Federal LD18-790 - Wellbore #1 - Plan #1	3,449.65	4,331.89	2,149.14	2,122.83	81.686	CC, ES
Stripes Federal LD18-790 - Wellbore #1 - Plan #1	16,862.81	16,850.83	2,629.73	2,447.92	14.464	SF
Timbro Federal LD07-78HN - Original Drilling - As Drilled	2,785.80	3,644.01	5,983.28	5,962.32	285.420	CC
Timbro Federal LD07-78HN - Original Drilling - As Drilled	2,800.00	3,644.01	5,983.33	5,962.31	284.709	ES
Timbro Federal LD07-78HN - Original Drilling - As Drilled	12,300.00	10,293.02	7,386.02	7,251.33	54.836	SF
LD Section 08						
Timbro Federal LD08-62HN - Original Drilling - As Drilled	10,986.48	8,158.95	37.01	-24.32	0.603	Level 1, CC
Timbro Federal LD08-62HN - Original Drilling - As Drilled	11,000.00	8,159.14	39.40	-28.91	0.577	Level 1, ES, SF
LD Section 17						
Timbro Federal LD17-76HN - Wellbore #1 - Wellbore #1-	12,400.00	10,170.28	661.93	530.90	5.052	SF
Timbro Federal LD17-76HN - Wellbore #1 - Wellbore #1-	13,800.00	8,793.00	624.39	506.07	5.277	ES
Timbro Federal LD17-76HN - Wellbore #1 - Wellbore #1-	13,882.93	8,713.68	624.17	506.53	5.306	CC
LD Section 18						
Timbro Federal LD18-74HN - Original Drilling - As Drilled	12,342.86	10,271.02	4,584.11	4,449.48	34.050	CC
Timbro Federal LD18-74HN - Original Drilling - As Drilled	14,800.00	14,800.00	4,624.64	4,411.00	21.647	ES, SF
LD Section 19						
Bennett LD19-758 - Original Drilling - Original Drilling - A	16,862.81	10,939.00	5,838.43	5,701.23	42.553	CC, ES, SF
Bennett LD19-765 - Original Drilling - Original Drilling - A	16,862.81	10,896.00	6,277.02	6,139.68	45.703	CC, ES, SF
Bennett LD19-771 - Original Drilling - Original Drilling - A	16,862.81	10,806.00	6,716.27	6,578.89	48.888	CC, ES, SF
Bennett LD19-777 - Original Drilling - Original Drilling - A	16,862.81	10,840.00	7,127.08	6,989.89	51.948	CC, ES, SF
Bennett LD19-781 - Original Drilling - Original Drilling - A	16,862.81	11,090.00	7,376.70	7,242.65	55.030	CC, ES, SF
Bennett LD19-785 - Original Drilling - Original Drilling - A	16,862.81	10,902.00	7,604.23	7,466.78	55.321	CC, ES, SF
Riley LD19-715 - Original Drilling - Original Drilling - As D	16,862.81	11,052.00	2,988.36	2,855.40	22.477	CC, ES, SF
Riley LD19-722 - Original Drilling - Original Drilling - As D	16,862.81	10,641.00	3,391.58	3,254.86	24.807	CC, ES, SF
Riley LD19-738 - Original Drilling - Original Drilling - As D	16,862.81	10,950.00	4,544.08	4,406.58	33.047	CC, ES, SF
Riley LD19-745 - Original Drilling - Original Drilling - As D	16,862.81	10,872.00	4,968.57	4,832.03	36.389	CC, ES, SF
Riley LD19-752 - Original Drilling - Original Drilling - As D	16,862.81	11,064.00	5,467.61	5,329.94	39.718	CC, ES, SF
Timbro Federal LD29-78HN - Original Drilling - Original D	16,862.81	5,298.00	6,107.94	6,036.50	85.499	CC, ES, SF
Timbro LD19-73HN - Wellbore #1 - Wellbore #1-As Drille	16,862.81	10,273.02	3,447.08	3,277.05	20.273	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 Stars Federal LD17-750
Project:	East Pony	TVD Reference:	Well @ 4863.00ft
Reference Site:	LD Section 05	MD Reference:	Well @ 4863.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Stars Federal LD17-750	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDMP
Reference Design:	Plan #1	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						
LD Section 20						
Anni LD29-755 - Original Drilling - Original Drilling - As D	16,862.81	5,386.00	5,139.29	5,090.91	106.222	CC, ES, SF
Anni LD29-763 - Original Drilling - Original Drilling - As D	16,862.81	5,289.00	5,197.58	5,144.72	98.327	CC, ES, SF
Anni LD29-771 - Original Drilling - Original Drilling - As D	16,862.81	5,290.00	5,303.90	5,249.14	96.873	CC, ES, SF

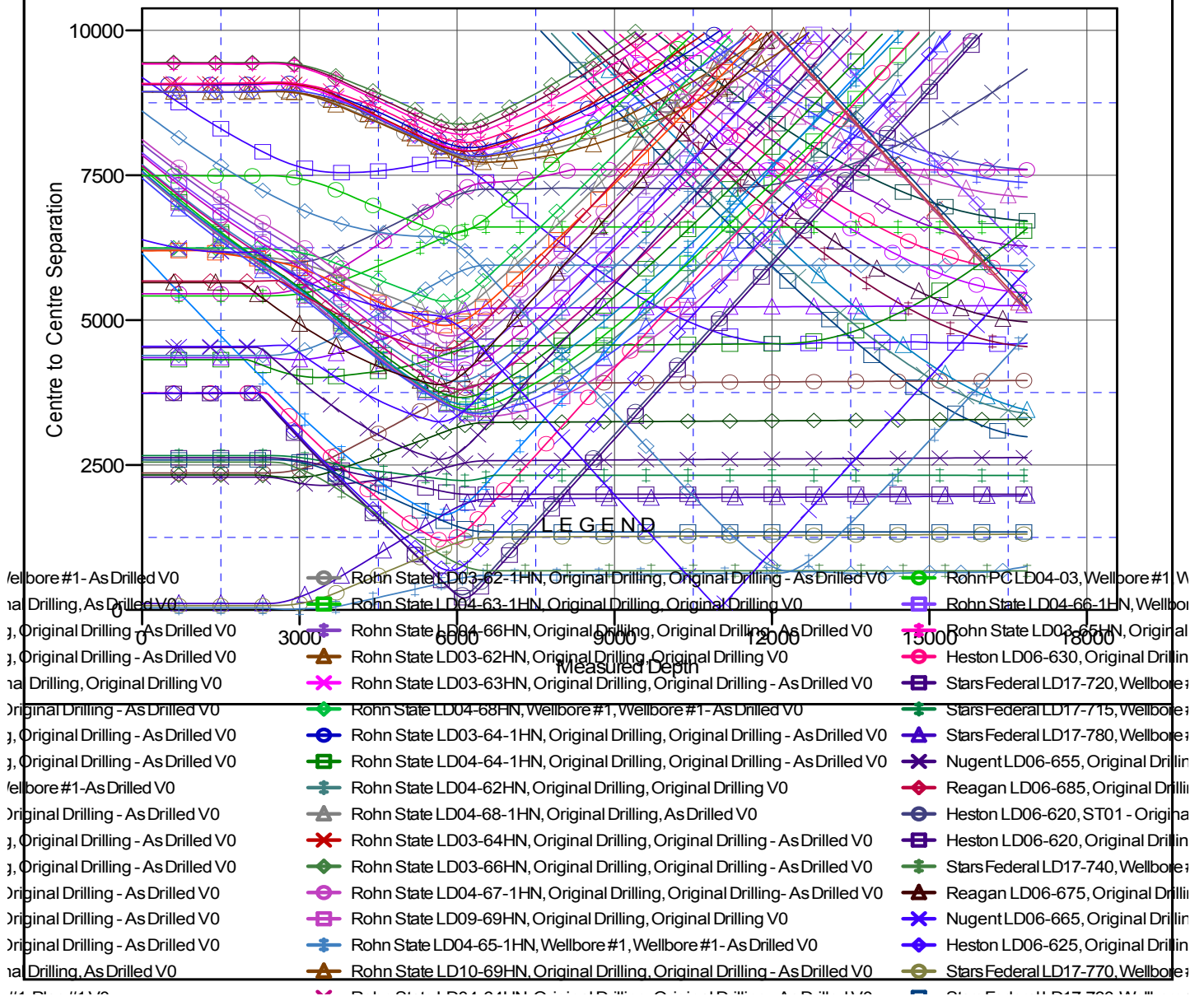
Noble Energy, Inc.
Anticollision Summary Report

Company:	Northern Region - DJ Basin	Local Co-ordinate Reference:	Well Stars Federal LD17-750
Project:	East Pony	TVD Reference:	Well @ 4863.00ft
Reference Site:	LD Section 05	MD Reference:	Well @ 4863.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Stars Federal LD17-750	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDMP
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to Well @ 4863.00ft
Offset Depths are relative to Offset Datum
Central Meridian is -105.5000000

Coordinates are relative to: Stars Federal LD17-750
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 1.04°

Ladder Plot



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

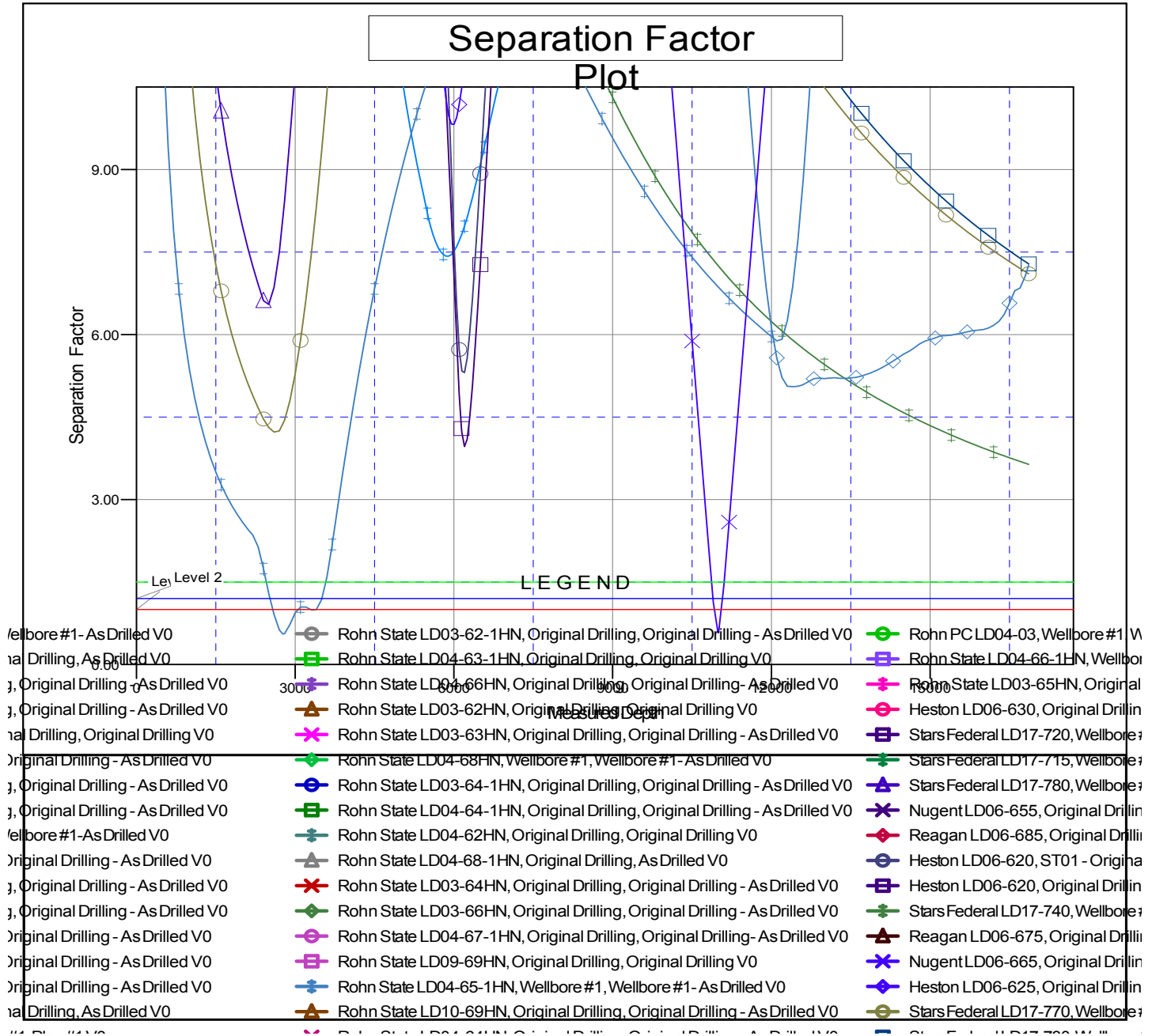
Noble Energy, Inc.

Anticollision Summary Report

Company:	Northern Region - DJ Basin	Local Co-ordinate Reference:	Well Stars Federal LD17-750
Project:	East Pony	TVD Reference:	Well @ 4863.00ft
Reference Site:	LD Section 05	MD Reference:	Well @ 4863.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Stars Federal LD17-750	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDMP
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to Well @ 4863.00ft
 Offset Depths are relative to Offset Datum
 Central Meridian is -105.5000000

Coordinates are relative to: Stars Federal LD17-750
 Coordinate System is US State Plane 1983, Colorado Northern Zone
 Grid Convergence at Surface is: 1.04°



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