

Project: Mustang
Site: H Section 26
Well: Hurley H35-787
Wellbore: Wellbore #1
Design: Plan #2

Northern Region - DJ Basin

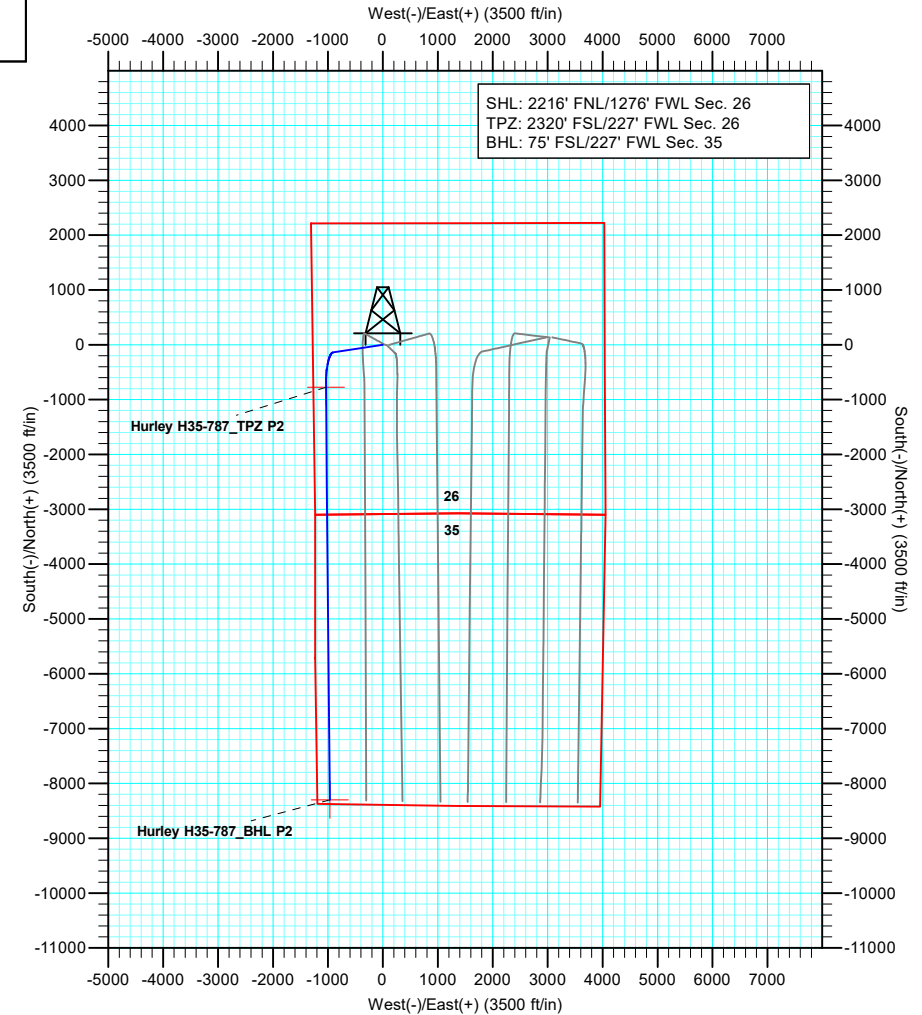
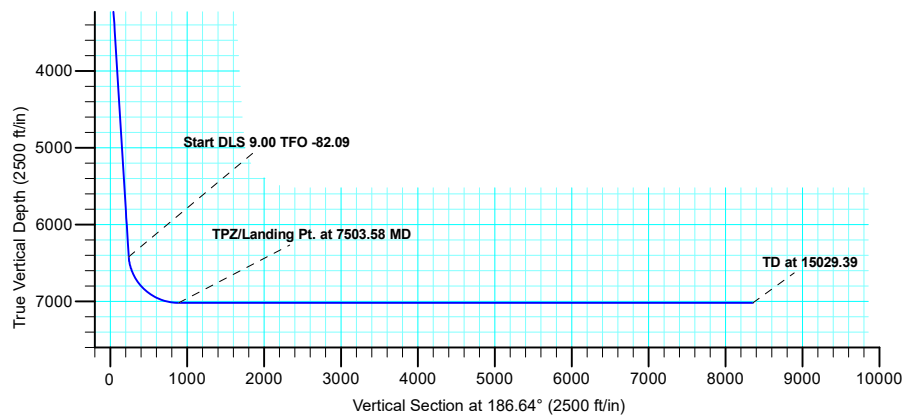
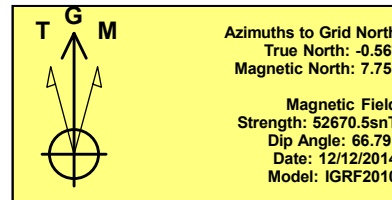
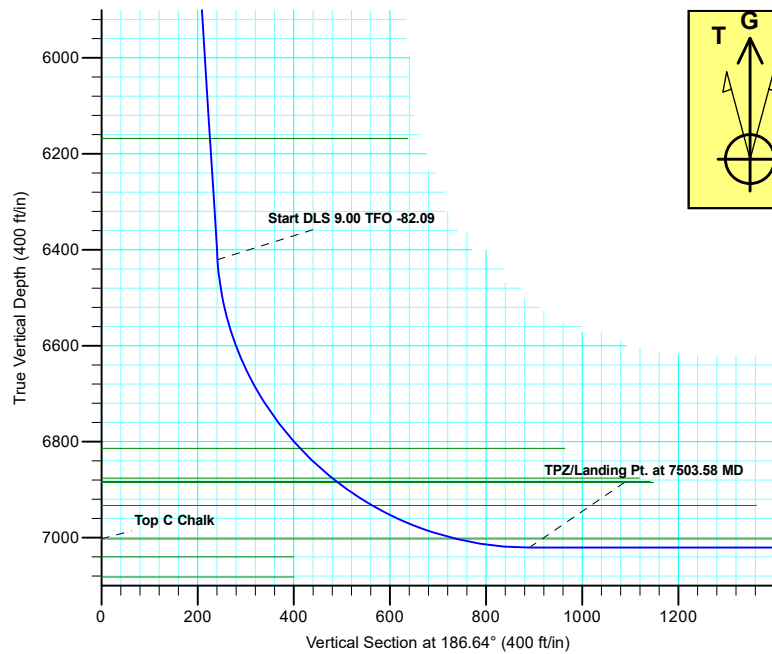
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Colorado Northern Zone
System Datum: Mean Sea Level

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2200.00	0.00	0.00	2200.00	0.00	0.00	0.00	0.00	0.00
3	2861.79	13.24	261.33	2855.92	-11.47	-75.23	2.00	261.33	20.09
4	6524.19	13.24	261.33	6421.03	-137.82	-904.19	0.00	0.00	241.52
5	7503.58	90.00	179.46	7021.00	-775.39	-1037.89	9.00	-82.09	890.28
6	15029.39	90.00	179.46	7021.00	-8300.86	-967.02	0.00	0.00	8357.00

WELL DETAILS: Hurley H35-787

+N/-S	+E/-W	Ground Level: Northing	Ground Level: Easting	Ground Level: Latitude	Ground Level: Longitude	Slot
0.00	0.00	1315975.79	3241448.38	40.1975199	-104.6356400	



Plan: Plan #2 (Hurley H35-787/Wellbore #1)

Created By: Shelly C. Peterkin Date: 14:55, May 28 2019

Northern Region - DJ Basin

Mustang

H Section 26

Hurley H35-787

Wellbore #1

Plan: Plan #2

Standard Planning Report

28 May, 2019

Noble Energy, Inc.

Planning Report

Database:	EDMP	Local Co-ordinate Reference:	Well Hurley H35-787
Company:	Northern Region - DJ Basin	TVD Reference:	WELL @ 4851.00ft (Original Well Elev)
Project:	Mustang	MD Reference:	WELL @ 4851.00ft (Original Well Elev)
Site:	H Section 26	North Reference:	Grid
Well:	Hurley H35-787	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2		

Project	Mustang, 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		H Section 26			
Site Position:		Northing:	1,313,365.35 usft	Latitude:	40.1903751
From:	Map	Easting:	3,240,670.89 usft	Longitude:	-104.6385139
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.56 °

Well	Hurley H35-787					
Well Position	+N/-S	2,610.44 ft	Northing:	1,315,975.79 usft	Latitude:	40.1975200
	+E/-W	777.49 ft	Easting:	3,241,448.38 usft	Longitude:	-104.6356400
Position Uncertainty		0.00 ft	Wellhead Elevation:	0.00 ft	Ground Level:	4,821.00 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/12/2014	8.31	66.79	52,670.54258949

Design	Plan #2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	186.64

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	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	
2,861.79	13.24	261.33	2,855.92	-11.47	-75.23	2.00	2.00	0.00	261.33	
6,524.19	13.24	261.33	6,421.03	-137.82	-904.19	0.00	0.00	0.00	0.00	
7,503.58	90.00	179.46	7,021.00	-775.39	-1,037.89	9.00	7.84	-8.36	-82.09	Hurley H35-787_TPZ
15,029.39	90.00	179.46	7,021.00	-8,300.86	-967.02	0.00	0.00	0.00	0.00	Hurley H35-787_BHL

Noble Energy, Inc.

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Project:	Mustang	MD Reference:	WELL @ 4851.00ft (Original Well Elev)
Site:	H Section 26	North Reference:	Grid
Well:	Hurley H35-787	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2		

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
617.00	0.00	0.00	617.00	0.00	0.00	0.00	0.00	0.00	0.00
Pierre (auto fill-equal to FH_base)									
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
769.00	0.00	0.00	769.00	0.00	0.00	0.00	0.00	0.00	0.00
Upper Pierre Aquifer Top									
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
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
1,657.00	0.00	0.00	1,657.00	0.00	0.00	0.00	0.00	0.00	0.00
Upper Pierre Aquifer Base									
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
Start Build 2.00									
2,300.00	2.00	261.33	2,299.98	-0.26	-1.73	0.46	2.00	2.00	0.00
2,400.00	4.00	261.33	2,399.84	-1.05	-6.90	1.84	2.00	2.00	0.00
2,500.00	6.00	261.33	2,499.45	-2.36	-15.51	4.14	2.00	2.00	0.00
2,600.00	8.00	261.33	2,598.70	-4.20	-27.56	7.36	2.00	2.00	0.00
2,700.00	10.00	261.33	2,697.47	-6.56	-43.03	11.49	2.00	2.00	0.00
2,800.00	12.00	261.33	2,795.62	-9.43	-61.89	16.53	2.00	2.00	0.00
2,861.79	13.24	261.33	2,855.92	-11.47	-75.23	20.09	2.00	2.00	0.00
Start 3662.41 hold at 2861.79 MD									
2,900.00	13.24	261.33	2,893.11	-12.79	-83.88	22.41	0.00	0.00	0.00
3,000.00	13.24	261.33	2,990.46	-16.24	-106.51	28.45	0.00	0.00	0.00
3,100.00	13.24	261.33	3,087.80	-19.69	-129.15	34.50	0.00	0.00	0.00
3,200.00	13.24	261.33	3,185.15	-23.14	-151.78	40.54	0.00	0.00	0.00
3,300.00	13.24	261.33	3,282.49	-26.59	-174.42	46.59	0.00	0.00	0.00
3,400.00	13.24	261.33	3,379.83	-30.04	-197.05	52.63	0.00	0.00	0.00
3,500.00	13.24	261.33	3,477.18	-33.48	-219.69	58.68	0.00	0.00	0.00
3,600.00	13.24	261.33	3,574.52	-36.93	-242.32	64.73	0.00	0.00	0.00
3,700.00	13.24	261.33	3,671.86	-40.38	-264.95	70.77	0.00	0.00	0.00
3,800.00	13.24	261.33	3,769.21	-43.83	-287.59	76.82	0.00	0.00	0.00
3,900.00	13.24	261.33	3,866.55	-47.28	-310.22	82.86	0.00	0.00	0.00
3,959.02	13.24	261.33	3,924.00	-49.32	-323.58	86.43	0.00	0.00	0.00
Parkman									
4,000.00	13.24	261.33	3,963.89	-50.73	-332.86	88.91	0.00	0.00	0.00
4,100.00	13.24	261.33	4,061.24	-54.18	-355.49	94.96	0.00	0.00	0.00

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Wellbore:	Wellbore #1		
Design:	Plan #2		

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)
4,200.00	13.24	261.33	4,158.58	-57.63	-378.13	101.00	0.00	0.00	0.00
4,300.00	13.24	261.33	4,255.93	-61.08	-400.76	107.05	0.00	0.00	0.00
4,400.00	13.24	261.33	4,353.27	-64.53	-423.40	113.09	0.00	0.00	0.00
4,500.00	13.24	261.33	4,450.61	-67.98	-446.03	119.14	0.00	0.00	0.00
4,566.14	13.24	261.33	4,515.00	-70.27	-461.00	123.14	0.00	0.00	0.00
Sussex									
4,600.00	13.24	261.33	4,547.96	-71.43	-468.66	125.19	0.00	0.00	0.00
4,700.00	13.24	261.33	4,645.30	-74.88	-491.30	131.23	0.00	0.00	0.00
4,800.00	13.24	261.33	4,742.64	-78.33	-513.93	137.28	0.00	0.00	0.00
4,900.00	13.24	261.33	4,839.99	-81.78	-536.57	143.32	0.00	0.00	0.00
5,000.00	13.24	261.33	4,937.33	-85.23	-559.20	149.37	0.00	0.00	0.00
5,100.00	13.24	261.33	5,034.67	-88.68	-581.84	155.42	0.00	0.00	0.00
5,200.00	13.24	261.33	5,132.02	-92.13	-604.47	161.46	0.00	0.00	0.00
5,266.76	13.24	261.33	5,197.00	-94.44	-619.58	165.50	0.00	0.00	0.00
Shannon									
5,300.00	13.24	261.33	5,229.36	-95.58	-627.10	167.51	0.00	0.00	0.00
5,400.00	13.24	261.33	5,326.71	-99.03	-649.74	173.55	0.00	0.00	0.00
5,500.00	13.24	261.33	5,424.05	-102.48	-672.37	179.60	0.00	0.00	0.00
5,600.00	13.24	261.33	5,521.39	-105.93	-695.01	185.64	0.00	0.00	0.00
5,700.00	13.24	261.33	5,618.74	-109.38	-717.64	191.69	0.00	0.00	0.00
5,800.00	13.24	261.33	5,716.08	-112.83	-740.28	197.74	0.00	0.00	0.00
5,900.00	13.24	261.33	5,813.42	-116.28	-762.91	203.78	0.00	0.00	0.00
6,000.00	13.24	261.33	5,910.77	-119.73	-785.55	209.83	0.00	0.00	0.00
6,100.00	13.24	261.33	6,008.11	-123.18	-808.18	215.87	0.00	0.00	0.00
6,200.00	13.24	261.33	6,105.45	-126.63	-830.81	221.92	0.00	0.00	0.00
6,264.25	13.24	261.33	6,168.00	-128.85	-845.36	225.81	0.00	0.00	0.00
Teepee Buttes									
6,300.00	13.24	261.33	6,202.80	-130.08	-853.45	227.97	0.00	0.00	0.00
6,400.00	13.24	261.33	6,300.14	-133.53	-876.08	234.01	0.00	0.00	0.00
6,500.00	13.24	261.33	6,397.49	-136.98	-898.72	240.06	0.00	0.00	0.00
6,524.19	13.24	261.33	6,421.03	-137.82	-904.19	241.52	0.00	0.00	0.00
Start DLS 9.00 TFO -82.09									
6,550.00	13.75	251.61	6,446.13	-139.23	-910.02	243.60	9.00	1.98	-37.69
6,600.00	15.68	235.52	6,494.51	-144.93	-921.24	250.56	9.00	3.86	-32.18
6,650.00	18.50	223.55	6,542.31	-154.51	-932.28	261.35	9.00	5.65	-23.95
6,700.00	21.88	214.89	6,589.25	-167.91	-943.08	275.91	9.00	6.75	-17.30
6,750.00	25.59	208.55	6,635.02	-185.05	-953.57	294.15	9.00	7.42	-12.69
6,800.00	29.51	203.75	6,679.34	-205.82	-963.70	315.95	9.00	7.84	-9.59
6,850.00	33.56	200.01	6,721.95	-230.09	-973.39	341.18	9.00	8.11	-7.49
6,900.00	37.71	196.99	6,762.58	-257.71	-982.60	369.68	9.00	8.29	-6.03
6,950.00	41.91	194.49	6,800.99	-288.52	-991.25	401.29	9.00	8.41	-4.99
6,967.70	43.42	193.71	6,814.00	-300.16	-994.17	413.18	9.00	8.48	-4.45
Sharon Springs									
7,000.00	46.17	192.38	6,836.92	-322.32	-999.30	435.79	9.00	8.52	-4.12
7,050.00	50.45	190.54	6,870.17	-358.91	-1,006.69	472.99	9.00	8.57	-3.67
7,059.24	51.25	190.23	6,876.00	-365.96	-1,007.99	480.13	9.00	8.61	-3.39
Top A Chalk									
7,070.54	52.22	189.86	6,883.00	-374.69	-1,009.53	488.99	9.00	8.62	-3.31
Top A Marl									
7,073.81	52.51	189.75	6,885.00	-377.25	-1,009.97	491.58	9.00	8.62	-3.25
Top B Chalk									
7,100.00	54.77	188.93	6,900.53	-398.06	-1,013.39	512.65	9.00	8.64	-3.15
7,150.00	59.10	187.47	6,927.80	-439.52	-1,019.35	554.52	9.00	8.66	-2.91

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Project:	Mustang	MD Reference:	WELL @ 4851.00ft (Original Well Elev)
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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)
7,160.26	59.99	187.19	6,933.00	-448.29	-1,020.48	563.36	9.00	8.68	-2.75
Top B Marl									
7,200.00	63.45	186.14	6,951.83	-483.05	-1,024.54	598.35	9.00	8.70	-2.63
7,250.00	67.80	184.91	6,972.46	-528.37	-1,028.92	643.88	9.00	8.72	-2.46
7,300.00	72.17	183.76	6,989.57	-575.20	-1,032.46	690.81	9.00	8.73	-2.31
7,349.81	76.53	182.66	7,003.00	-623.08	-1,035.14	738.67	9.00	8.75	-2.20
Top C Chalk									
7,350.00	76.54	182.65	7,003.04	-623.26	-1,035.14	738.86	9.00	8.75	-2.16
7,400.00	80.92	181.59	7,012.81	-672.25	-1,036.96	787.73	9.00	8.76	-2.12
7,450.00	85.30	180.56	7,018.81	-721.87	-1,037.89	837.12	9.00	8.76	-2.07
7,503.58	90.00	179.46	7,021.00	-775.39	-1,037.89	890.28	9.00	8.76	-2.05
TPZ/Landing Pt. at 7503.58 MD									
7,600.00	90.00	179.46	7,021.00	-871.81	-1,036.99	985.94	0.00	0.00	0.00
7,700.00	90.00	179.46	7,021.00	-971.80	-1,036.04	1,085.16	0.00	0.00	0.00
7,800.00	90.00	179.46	7,021.00	-1,071.80	-1,035.10	1,184.37	0.00	0.00	0.00
7,900.00	90.00	179.46	7,021.00	-1,171.79	-1,034.16	1,283.59	0.00	0.00	0.00
8,000.00	90.00	179.46	7,021.00	-1,271.79	-1,033.22	1,382.80	0.00	0.00	0.00
8,100.00	90.00	179.46	7,021.00	-1,371.78	-1,032.28	1,482.02	0.00	0.00	0.00
8,200.00	90.00	179.46	7,021.00	-1,471.78	-1,031.33	1,581.23	0.00	0.00	0.00
8,300.00	90.00	179.46	7,021.00	-1,571.77	-1,030.39	1,680.45	0.00	0.00	0.00
8,400.00	90.00	179.46	7,021.00	-1,671.77	-1,029.45	1,779.66	0.00	0.00	0.00
8,500.00	90.00	179.46	7,021.00	-1,771.77	-1,028.51	1,878.88	0.00	0.00	0.00
8,600.00	90.00	179.46	7,021.00	-1,871.76	-1,027.57	1,978.09	0.00	0.00	0.00
8,700.00	90.00	179.46	7,021.00	-1,971.76	-1,026.63	2,077.31	0.00	0.00	0.00
8,800.00	90.00	179.46	7,021.00	-2,071.75	-1,025.68	2,176.52	0.00	0.00	0.00
8,900.00	90.00	179.46	7,021.00	-2,171.75	-1,024.74	2,275.74	0.00	0.00	0.00
9,000.00	90.00	179.46	7,021.00	-2,271.74	-1,023.80	2,374.95	0.00	0.00	0.00
9,100.00	90.00	179.46	7,021.00	-2,371.74	-1,022.86	2,474.17	0.00	0.00	0.00
9,200.00	90.00	179.46	7,021.00	-2,471.73	-1,021.92	2,573.38	0.00	0.00	0.00
9,300.00	90.00	179.46	7,021.00	-2,571.73	-1,020.98	2,672.60	0.00	0.00	0.00
9,400.00	90.00	179.46	7,021.00	-2,671.73	-1,020.03	2,771.81	0.00	0.00	0.00
9,500.00	90.00	179.46	7,021.00	-2,771.72	-1,019.09	2,871.03	0.00	0.00	0.00
9,600.00	90.00	179.46	7,021.00	-2,871.72	-1,018.15	2,970.24	0.00	0.00	0.00
9,700.00	90.00	179.46	7,021.00	-2,971.71	-1,017.21	3,069.45	0.00	0.00	0.00
9,800.00	90.00	179.46	7,021.00	-3,071.71	-1,016.27	3,168.67	0.00	0.00	0.00
9,900.00	90.00	179.46	7,021.00	-3,171.70	-1,015.33	3,267.88	0.00	0.00	0.00
10,000.00	90.00	179.46	7,021.00	-3,271.70	-1,014.38	3,367.10	0.00	0.00	0.00
10,100.00	90.00	179.46	7,021.00	-3,371.69	-1,013.44	3,466.31	0.00	0.00	0.00
10,200.00	90.00	179.46	7,021.00	-3,471.69	-1,012.50	3,565.53	0.00	0.00	0.00
10,300.00	90.00	179.46	7,021.00	-3,571.69	-1,011.56	3,664.74	0.00	0.00	0.00
10,400.00	90.00	179.46	7,021.00	-3,671.68	-1,010.62	3,763.96	0.00	0.00	0.00
10,500.00	90.00	179.46	7,021.00	-3,771.68	-1,009.67	3,863.17	0.00	0.00	0.00
10,600.00	90.00	179.46	7,021.00	-3,871.67	-1,008.73	3,962.39	0.00	0.00	0.00
10,700.00	90.00	179.46	7,021.00	-3,971.67	-1,007.79	4,061.60	0.00	0.00	0.00
10,800.00	90.00	179.46	7,021.00	-4,071.66	-1,006.85	4,160.82	0.00	0.00	0.00
10,900.00	90.00	179.46	7,021.00	-4,171.66	-1,005.91	4,260.03	0.00	0.00	0.00
11,000.00	90.00	179.46	7,021.00	-4,271.65	-1,004.97	4,359.25	0.00	0.00	0.00
11,100.00	90.00	179.46	7,021.00	-4,371.65	-1,004.02	4,458.46	0.00	0.00	0.00
11,200.00	90.00	179.46	7,021.00	-4,471.65	-1,003.08	4,557.68	0.00	0.00	0.00
11,300.00	90.00	179.46	7,021.00	-4,571.64	-1,002.14	4,656.89	0.00	0.00	0.00
11,400.00	90.00	179.46	7,021.00	-4,671.64	-1,001.20	4,756.11	0.00	0.00	0.00
11,500.00	90.00	179.46	7,021.00	-4,771.63	-1,000.26	4,855.32	0.00	0.00	0.00
11,600.00	90.00	179.46	7,021.00	-4,871.63	-999.32	4,954.54	0.00	0.00	0.00

Noble Energy, Inc.

Planning Report

Database:	EDMP	Local Co-ordinate Reference:	Well Hurley H35-787
Company:	Northern Region - DJ Basin	TVD Reference:	WELL @ 4851.00ft (Original Well Elev)
Project:	Mustang	MD Reference:	WELL @ 4851.00ft (Original Well Elev)
Site:	H Section 26	North Reference:	Grid
Well:	Hurley H35-787	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2		

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)
11,700.00	90.00	179.46	7,021.00	-4,971.62	-998.37	5,053.75	0.00	0.00	0.00
11,800.00	90.00	179.46	7,021.00	-5,071.62	-997.43	5,152.97	0.00	0.00	0.00
11,900.00	90.00	179.46	7,021.00	-5,171.61	-996.49	5,252.18	0.00	0.00	0.00
12,000.00	90.00	179.46	7,021.00	-5,271.61	-995.55	5,351.40	0.00	0.00	0.00
12,100.00	90.00	179.46	7,021.00	-5,371.61	-994.61	5,450.61	0.00	0.00	0.00
12,200.00	90.00	179.46	7,021.00	-5,471.60	-993.67	5,549.83	0.00	0.00	0.00
12,300.00	90.00	179.46	7,021.00	-5,571.60	-992.72	5,649.04	0.00	0.00	0.00
12,400.00	90.00	179.46	7,021.00	-5,671.59	-991.78	5,748.26	0.00	0.00	0.00
12,500.00	90.00	179.46	7,021.00	-5,771.59	-990.84	5,847.47	0.00	0.00	0.00
12,600.00	90.00	179.46	7,021.00	-5,871.58	-989.90	5,946.69	0.00	0.00	0.00
12,700.00	90.00	179.46	7,021.00	-5,971.58	-988.96	6,045.90	0.00	0.00	0.00
12,800.00	90.00	179.46	7,021.00	-6,071.57	-988.02	6,145.12	0.00	0.00	0.00
12,900.00	90.00	179.46	7,021.00	-6,171.57	-987.07	6,244.33	0.00	0.00	0.00
13,000.00	90.00	179.46	7,021.00	-6,271.57	-986.13	6,343.55	0.00	0.00	0.00
13,100.00	90.00	179.46	7,021.00	-6,371.56	-985.19	6,442.76	0.00	0.00	0.00
13,200.00	90.00	179.46	7,021.00	-6,471.56	-984.25	6,541.98	0.00	0.00	0.00
13,300.00	90.00	179.46	7,021.00	-6,571.55	-983.31	6,641.19	0.00	0.00	0.00
13,400.00	90.00	179.46	7,021.00	-6,671.55	-982.36	6,740.41	0.00	0.00	0.00
13,500.00	90.00	179.46	7,021.00	-6,771.54	-981.42	6,839.62	0.00	0.00	0.00
13,600.00	90.00	179.46	7,021.00	-6,871.54	-980.48	6,938.84	0.00	0.00	0.00
13,700.00	90.00	179.46	7,021.00	-6,971.53	-979.54	7,038.05	0.00	0.00	0.00
13,800.00	90.00	179.46	7,021.00	-7,071.53	-978.60	7,137.27	0.00	0.00	0.00
13,900.00	90.00	179.46	7,021.00	-7,171.53	-977.66	7,236.48	0.00	0.00	0.00
14,000.00	90.00	179.46	7,021.00	-7,271.52	-976.71	7,335.70	0.00	0.00	0.00
14,100.00	90.00	179.46	7,021.00	-7,371.52	-975.77	7,434.91	0.00	0.00	0.00
14,200.00	90.00	179.46	7,021.00	-7,471.51	-974.83	7,534.12	0.00	0.00	0.00
14,300.00	90.00	179.46	7,021.00	-7,571.51	-973.89	7,633.34	0.00	0.00	0.00
14,400.00	90.00	179.46	7,021.00	-7,671.50	-972.95	7,732.55	0.00	0.00	0.00
14,500.00	90.00	179.46	7,021.00	-7,771.50	-972.01	7,831.77	0.00	0.00	0.00
14,600.00	90.00	179.46	7,021.00	-7,871.49	-971.06	7,930.98	0.00	0.00	0.00
14,700.00	90.00	179.46	7,021.00	-7,971.49	-970.12	8,030.20	0.00	0.00	0.00
14,800.00	90.00	179.46	7,021.00	-8,071.49	-969.18	8,129.41	0.00	0.00	0.00
14,900.00	90.00	179.46	7,021.00	-8,171.48	-968.24	8,228.63	0.00	0.00	0.00
15,000.00	90.00	179.46	7,021.00	-8,271.48	-967.30	8,327.84	0.00	0.00	0.00
15,029.39	90.00	179.46	7,021.00	-8,300.86	-967.02	8,357.00	0.00	0.00	0.00
TD at 15029.39									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
Hurley H35-787_TPZ P2	0.00	0.00	7,021.00	-775.39	-1,037.89	1,315,200.40	3,240,410.49	40.1954192	-104.6393822
- plan hits target center									
- Point									
Hurley H35-787_BHL P2	0.00	0.00	7,021.00	-8,300.86	-967.02	1,307,674.94	3,240,481.36	40.1747600	-104.6393900
- plan hits target center									
- Point									

Noble Energy, Inc.

Planning Report

Database:	EDMP	Local Co-ordinate Reference:	Well Hurley H35-787
Company:	Northern Region - DJ Basin	TVD Reference:	WELL @ 4851.00ft (Original Well Elev)
Project:	Mustang	MD Reference:	WELL @ 4851.00ft (Original Well Elev)
Site:	H Section 26	North Reference:	Grid
Well:	Hurley H35-787	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
617.00	617.00	Pierre (auto fill-equal to FH_base)				
769.00	769.00	Upper Pierre Aquifer Top				
1,657.00	1,657.00	Upper Pierre Aquifer Base				
3,959.02	3,924.00	Parkman				
4,566.14	4,515.00	Sussex				
5,266.76	5,197.00	Shannon				
6,264.25	6,168.00	Teepee Buttes				
6,967.70	6,814.00	Sharon Springs				
7,059.24	6,876.00	Top A Chalk				
7,070.54	6,883.00	Top A Marl				
7,073.81	6,885.00	Top B Chalk				
7,160.26	6,933.00	Top B Marl				
7,349.81	7,003.00	Top C Chalk				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
2,200.00	2,200.00	0.00	0.00	Start Build 2.00	
2,861.79	2,855.92	-11.47	-75.23	Start 3662.41 hold at 2861.79 MD	
6,524.19	6,421.03	-137.82	-904.19	Start DLS 9.00 TFO -82.09	
7,503.58	7,021.00	-775.39	-1,037.89	TPZ/Landing Pt. at 7503.58 MD	
15,029.39	7,021.00	-8,300.86	-967.02	TD at 15029.39	

Northern Region - DJ Basin

Mustang

H Section 26

Hurley H35-787

Wellbore #1

Plan #2

Anticollision Summary Report

29 May, 2019

Noble Energy, Inc.
Anticollision Summary Report

Company:	Northern Region - DJ Basin	Local Co-ordinate Reference:	Well Hurley H35-787
Project:	Mustang	TVD Reference:	WELL @ 4851.00ft (Original Well Elev)
Reference Site:	H Section 26	MD Reference:	WELL @ 4851.00ft (Original Well Elev)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Hurley H35-787	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 #2	Offset TVD Reference:	Offset Datum

Reference	Plan #2		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD + Stations Interval 100.00ft	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	5/29/2019		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.00	15,029.39	Plan #2 (Wellbore #1)	OWSG MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station 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						
H Section 23						
Eachus 32-23 - Original Drilling - Original Drilling - As Dri	2,105.72	2,088.84	5,799.86	5,785.41	401.623	CC
Eachus 32-23 - Original Drilling - Original Drilling - As Dri	2,200.00	2,151.36	5,800.10	5,785.10	386.755	ES
Eachus 32-23 - Original Drilling - Original Drilling - As Dri	7,000.00	6,855.32	6,606.48	6,557.56	135.043	SF
Eachus 41-23 (PA) - Original Drilling - Original Drilling - A	2,200.00	2,188.00	7,490.03	7,438.62	145.682	CC
Eachus 41-23 (PA) - Original Drilling - Original Drilling - A	2,300.00	2,287.98	7,491.03	7,437.27	139.338	ES
Eachus 41-23 (PA) - Original Drilling - Original Drilling - A	7,050.00	6,858.17	8,290.89	8,128.53	51.064	SF
Eachus UPRR 31-23 - Original Drilling - Original Drilling -	2,178.24	2,145.26	7,109.79	7,094.90	477.446	CC
Eachus UPRR 31-23 - Original Drilling - Original Drilling -	2,200.00	2,159.22	7,109.80	7,094.78	473.418	ES
Eachus UPRR 31-23 - Original Drilling - Original Drilling -	7,300.00	6,894.63	8,021.27	7,916.03	76.223	SF
Eachus UPRR 42-23 (PA) - Original Drilling - Original Dri	2,200.00	2,198.00	6,354.81	6,303.20	123.123	CC
Eachus UPRR 42-23 (PA) - Original Drilling - Original Dri	2,300.00	2,297.98	6,355.94	6,301.98	117.786	ES
Eachus UPRR 42-23 (PA) - Original Drilling - Original Dri	7,050.00	6,868.17	7,221.66	7,059.16	44.441	SF
HSR Alberstein 16-23 - Original Drilling - Original Drilling	1,135.70	1,139.86	4,417.49	4,409.83	576.265	CC
HSR Alberstein 16-23 - Original Drilling - Original Drilling	2,200.00	2,180.25	4,420.94	4,405.84	292.641	ES
HSR Alberstein 16-23 - Original Drilling - Original Drilling	7,000.00	6,914.28	5,437.09	5,388.16	111.100	SF
HSR Ashley 15-23A - Original Drilling - Original Drilling - A	0.00	0.00	3,564.23			
HSR Ashley 15-23A - Original Drilling - Original Drilling - A	2,209.37	2,200.04	3,574.98	3,559.78	235.080	ES
HSR Ashley 15-23A - Original Drilling - Original Drilling - A	6,850.00	6,719.36	4,440.61	4,392.67	92.621	SF
HSR Benirschke 10-23 - Original Drilling - Original Drilling	2,331.76	2,450.23	4,631.87	4,615.32	279.750	CC, ES
HSR Benirschke 10-23 - Original Drilling - Original Drilling	6,800.00	6,451.54	5,368.62	5,321.90	114.905	SF
HSR Eachus 03-23 - Original Drilling - Original Drilling - A	789.33	753.38	6,101.63	6,096.57	1,205.856	CC
HSR Eachus 03-23 - Original Drilling - Original Drilling - A	2,200.00	2,115.79	6,103.71	6,088.84	410.387	ES
HSR Eachus 03-23 - Original Drilling - Original Drilling - A	5,700.00	5,700.00	7,031.41	6,964.02	104.332	SF
HSR Eachus 04-23 - Original Drilling - Original Drilling - A	100.00	56.36	6,074.29	6,074.07	10,000.000	CC
HSR Eachus 04-23 - Original Drilling - Original Drilling - A	1,000.00	937.84	6,076.71	6,070.24	938.466	ES
HSR Eachus 04-23 - Original Drilling - Original Drilling - A	6,650.00	6,879.69	6,996.75	6,872.36	56.251	SF
HSR Eachus 05-23 - Original Drilling - Original Drilling - A	4,307.51	4,853.23	5,521.71	5,399.63	45.228	CC, ES
HSR Eachus 05-23 - Original Drilling - Original Drilling - A	6,800.00	7,025.88	5,719.60	5,581.36	41.375	SF
HSR Fruman 06-23 - Original Drilling - Original Drilling - A	1,955.65	1,916.80	5,931.69	5,918.39	445.986	CC
HSR Fruman 06-23 - Original Drilling - Original Drilling - A	2,000.00	1,941.36	5,931.78	5,918.24	437.941	ES
HSR Fruman 06-23 - Original Drilling - Original Drilling - A	6,900.00	6,795.08	6,298.20	6,242.51	113.090	SF
HSR Grasshopper 09-23 - Original Drilling - Original Drilli	0.00	0.00	4,886.78			
HSR Grasshopper 09-23 - Original Drilling - Original Drilli	1,800.00	1,774.71	4,894.02	4,881.77	399.455	ES
HSR Grasshopper 09-23 - Original Drilling - Original Drilli	6,900.00	6,816.71	5,840.84	5,792.42	120.647	SF
Ritchey 06-23 - Original Drilling - Original Drilling - As Dri	4,950.98	5,400.00	5,657.56	5,620.90	154.331	CC, ES
Ritchey 06-23 - Original Drilling - Original Drilling - As Dri	6,950.00	7,037.75	5,933.82	5,884.11	119.360	SF
Ritchey 21-23 - Original Drilling - Original Drilling - As Dri	309.40	279.42	6,334.96	6,333.28	3,764.084	CC

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 Hurley H35-787
Project:	Mustang	TVD Reference:	WELL @ 4851.00ft (Original Well Elev)
Reference Site:	H Section 26	MD Reference:	WELL @ 4851.00ft (Original Well Elev)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Hurley H35-787	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 #2	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						
H Section 23						
Ritchey 21-23 - Original Drilling - Original Drilling - As Dri	2,000.00	1,921.62	6,341.05	6,327.57	470.452	ES
Ritchey 21-23 - Original Drilling - Original Drilling - As Dri	6,950.00	6,783.81	6,985.58	6,936.93	143.566	SF
Ritchey 24-23 - Original Drilling - Original Drilling - As Dri	1,039.83	1,026.84	4,671.62	4,664.71	675.730	CC
Ritchey 24-23 - Original Drilling - Original Drilling - As Dri	1,600.00	1,556.47	4,674.45	4,663.68	434.145	ES
Ritchey 24-23 - Original Drilling - Original Drilling - As Dri	7,000.00	6,854.49	6,238.36	6,189.27	127.086	SF
Ritchey 31-24 - Original Drilling - Original Drilling - As Dri	1,403.34	1,400.00	6,569.73	6,560.22	690.719	CC
Ritchey 31-24 - Original Drilling - Original Drilling - As Dri	1,500.00	1,448.26	6,570.01	6,559.99	655.253	ES
Ritchey 31-24 - Original Drilling - Original Drilling - As Dri	6,950.00	6,887.03	8,117.30	8,061.29	144.930	SF
UPRC 23-11J - Original Drilling - Original Drilling - As Dri	1,765.83	1,720.84	4,053.63	4,041.70	339.743	CC
UPRC 23-11J - Original Drilling - Original Drilling - As Dri	1,900.00	1,833.17	4,053.98	4,041.17	316.614	ES
UPRC 23-11J - Original Drilling - Original Drilling - As Dri	6,850.00	6,734.89	4,601.48	4,553.25	95.416	SF
UPRC 23-12J - Original Drilling - Original Drilling - As Dri	992.83	947.84	4,081.44	4,074.98	631.634	CC
UPRC 23-12J - Original Drilling - Original Drilling - As Dri	1,900.00	1,828.29	4,084.65	4,071.86	319.402	ES
UPRC 23-12J - Original Drilling - Original Drilling - As Dri	6,850.00	6,700.01	4,355.44	4,307.16	90.209	SF
UPRC H23-13 - Wellbore #1 - Wellbore #1 - As Drilled	271.71	232.71	2,879.19	2,877.81	2,086.307	CC
UPRC H23-13 - Wellbore #1 - Wellbore #1 - As Drilled	500.00	441.84	2,880.10	2,877.17	983.721	ES
UPRC H23-13 - Wellbore #1 - Wellbore #1 - As Drilled	6,800.00	6,581.02	3,173.58	3,125.82	66.449	SF
UPRC H23-14J - Original Drilling - Original Drilling - As D	1,808.19	1,765.28	2,790.55	2,778.31	227.852	CC
UPRC H23-14J - Original Drilling - Original Drilling - As D	1,900.00	1,837.24	2,790.96	2,778.13	217.583	ES
UPRC H23-14J - Original Drilling - Original Drilling - As D	6,750.00	6,489.73	3,530.87	3,484.03	75.378	SF
UPRC H23-24 - Original Drilling - Original Drilling - As Dr	1,577.39	1,540.44	3,777.41	3,766.77	355.265	CC
UPRC H23-24 - Original Drilling - Original Drilling - As Dr	1,900.00	1,833.06	3,778.90	3,766.10	295.078	ES
UPRC H23-24 - Original Drilling - Original Drilling - As Dr	6,900.00	6,615.77	4,530.63	4,482.83	94.770	SF
UPRR 53 Pan Am B#1 (PA) - Original Drilling - Original D	2,200.00	2,155.00	3,201.61	3,150.85	63.081	CC
UPRR 53 Pan Am B#1 (PA) - Original Drilling - Original D	2,900.00	2,848.11	3,208.75	3,141.71	47.858	ES
UPRR 53 Pan Am B#1 (PA) - Original Drilling - Original D	6,800.00	6,634.34	3,470.04	3,312.58	22.038	SF
UPRR 53 Pan Am UT V#1 - Original Drilling - Original Dri	0.00	0.00	6,565.12			
UPRR 53 Pan Am UT V#1 - Original Drilling - Original Dri	1,600.00	1,552.29	6,569.97	6,559.22	610.883	ES
UPRR 53 Pan Am UT V#1 - Original Drilling - Original Dri	7,350.00	7,045.08	7,598.95	7,548.18	149.676	SF

Noble Energy, Inc.
Anticollision Summary Report

Company:	Northern Region - DJ Basin	Local Co-ordinate Reference:	Well Hurley H35-787
Project:	Mustang	TVD Reference:	WELL @ 4851.00ft (Original Well Elev)
Reference Site:	H Section 26	MD Reference:	WELL @ 4851.00ft (Original Well Elev)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Hurley H35-787	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 #2	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						
H Section 25						
Dechant 21-25 - Original Drilling - Original Drilling - As Dr	574.98	553.99	5,855.82	5,852.23	1,631.053	CC
Dechant 21-25 - Original Drilling - Original Drilling - As Dr	1,400.00	1,358.72	5,856.72	5,847.37	626.025	ES
Dechant 21-25 - Original Drilling - Original Drilling - As Dr	10,900.00	7,236.03	9,180.34	9,118.43	148.306	SF
Dechant D30-33D - Original Drilling - Original Drilling - As	0.00	0.00	8,441.93			
Dechant D30-33D - Original Drilling - Original Drilling - As	100.00	33.96	8,441.93	8,441.75	10,000.000	ES
Dechant D30-33D - Original Drilling - Original Drilling - As	6,000.00	5,921.56	9,989.84	9,946.39	229.926	SF
Dechant D31-30D - Original Drilling - Original Drilling - As	100.00	37.38	8,445.39	8,445.21	10,000.000	CC
Dechant D31-30D - Original Drilling - Original Drilling - As	200.00	107.25	8,445.89	8,445.18	10,000.000	ES
Dechant D31-30D - Original Drilling - Original Drilling - As	5,400.00	5,400.00	9,699.79	9,659.34	239.826	SF
Dechant H25-64-1HN - Original Drilling - Original Drilling	2,528.26	3,028.75	4,410.66	4,391.64	231.955	CC, ES
Dechant H25-64-1HN - Original Drilling - Original Drilling	10,000.00	6,423.00	5,418.20	5,364.63	101.141	SF
Dechant H25-65HN - Original Drilling - Original Drilling	2,797.02	3,706.41	4,362.24	4,341.42	209.550	CC
Dechant H25-65HN - Original Drilling - Original Drilling	2,800.00	3,707.41	4,362.24	4,341.41	209.391	ES
Dechant H25-65HN - Original Drilling - Original Drilling	9,300.00	6,417.00	5,506.68	5,455.26	107.107	SF
Emmy H25-711 - Emmy H25-711 OH - As-Drilled	811.81	795.82	8,005.24	7,999.98	1,522.284	CC
Emmy H25-711 - Emmy H25-711 OH - As-Drilled	2,043.47	2,014.06	8,006.19	7,992.47	583.485	ES
Emmy H25-711 - Emmy H25-711 OH - As-Drilled	12,600.00	4,045.38	9,976.13	9,917.88	171.285	SF
Emmy State H25-718 - Emmy State H25-718 OH - As-Dr	215.57	199.57	7,985.59	7,984.55	7,681.050	CC
Emmy State H25-718 - Emmy State H25-718 OH - As-Dr	2,200.00	2,173.75	7,985.94	7,971.62	557.873	ES
Emmy State H25-718 - Emmy State H25-718 OH - As-Dr	12,800.00	12,800.00	9,838.25	9,748.90	110.104	SF
Emmy State H25-724 - Emmy State H25-724 OH - As-Dr	2,202.68	2,193.28	7,950.20	7,935.81	552.203	CC, ES
Emmy State H25-724 - Emmy State H25-724 OH - As-Dr	13,400.00	13,400.00	9,685.41	9,588.76	100.208	SF
Emmy State H25-731 - Emmy State H25-731 OH - As-Dr	2,088.96	2,073.00	7,936.77	7,922.71	564.430	CC
Emmy State H25-731 - Emmy State H25-731 OH - As-Dr	2,201.24	2,188.29	7,936.77	7,922.28	547.672	ES
Emmy State H25-731 - Emmy State H25-731 OH - As-Dr	14,700.00	6,375.79	9,992.47	9,915.36	129.586	SF
Emmy State H25-738 - Emmy State H25-738 OH - As-Dr	2,205.95	2,204.32	7,918.77	7,904.41	551.493	CC, ES
Emmy State H25-738 - Emmy State H25-738 OH - As-Dr	14,400.00	6,427.00	9,551.19	9,476.39	127.683	SF
Emmy State H25-744 - Emmy State H25-744 OH - As-Dr	5,235.74	10,163.68	7,701.88	7,649.34	146.595	CC, ES
Emmy State H25-744 - Emmy State H25-744 OH - As-Dr	14,000.00	6,519.00	8,950.14	8,876.89	122.202	SF
Emmy State H25-751 - Emmy State H25-751 OH - As-Dr	1,912.56	1,907.64	6,014.97	6,004.34	565.738	CC, ES
Emmy State H25-751 - Emmy State H25-751 OH - As-Dr	12,200.00	12,200.00	7,549.90	7,462.14	86.025	SF
Emmy State H25-757 - Emmy State H25-757 OH - As-Dr	1,901.93	1,896.95	5,996.65	5,983.63	460.541	CC
Emmy State H25-757 - Emmy State H25-757 OH - As-Dr	2,202.06	2,200.57	5,997.04	5,982.66	416.943	ES
Emmy State H25-757 - Emmy State H25-757 OH - As-Dr	13,200.00	13,200.00	7,767.89	7,674.29	82.983	SF
Emmy State H25-764 - Emmy State H25-764 OH - As-Dr	1,933.93	1,929.00	5,970.32	5,957.06	450.304	CC
Emmy State H25-764 - Emmy State H25-764 OH - As-Dr	2,200.00	2,191.39	5,971.02	5,956.66	415.937	ES
Emmy State H25-764 - Emmy State H25-764 OH - As-Dr	13,100.00	6,373.31	7,456.99	7,388.36	108.656	SF
Emmy State H25-771 - Emmy State H25-771 OH - As-Dr	2,202.80	2,202.52	5,962.68	5,948.15	410.152	CC, ES
Emmy State H25-771 - Emmy State H25-771 OH - As-Dr	12,700.00	6,518.00	6,934.63	6,868.24	104.465	SF
Emmy State H25-777 - Emmy State H25-777 OH - As-Dr	5,783.04	9,732.00	5,786.89	5,735.87	113.420	CC
Emmy State H25-777 - Emmy State H25-777 OH - As-Dr	5,800.00	9,732.00	5,786.92	5,735.83	113.266	ES
Emmy State H25-777 - Emmy State H25-777 OH - As-Dr	12,200.00	6,800.00	6,334.75	6,269.62	97.272	SF
Emmy State H25-785 - Emmy State H25-785 OH - As-Dr	5,832.81	9,771.79	5,261.28	5,208.88	100.404	CC, ES
Emmy State H25-785 - Emmy State H25-785 OH - As-Dr	12,100.00	12,100.00	5,894.10	5,818.32	77.782	SF
Emmy State H36-753 - Wellbore #1 - Plan #2	2,200.00	2,195.00	5,950.60	5,938.16	478.310	CC, ES
Emmy State H36-753 - Wellbore #1 - Plan #2	15,029.39	11,885.88	7,372.70	7,247.28	58.781	SF
Emmy State H36-766 - Wellbore #1 - Plan #2	2,200.00	2,196.00	5,910.84	5,898.39	475.028	CC, ES
Emmy State H36-766 - Wellbore #1 - Plan #2	15,029.39	11,943.61	6,494.59	6,369.86	52.071	SF
Emmy State H36-773 - Wellbore #1 - Plan #2	14,658.07	11,925.00	5,846.37	5,724.39	47.928	CC
Emmy State H36-773 - Wellbore #1 - Plan #2	14,700.00	11,925.00	5,846.52	5,724.29	47.832	ES
Emmy State H36-773 - Wellbore #1 - Plan #2	15,029.39	11,925.00	5,858.15	5,734.17	47.250	SF
Emmy State H36-787 - Wellbore #1 - Plan #2	14,663.08	11,923.93	5,161.01	5,038.39	42.091	CC
Emmy State H36-787 - Wellbore #1 - Plan #2	14,700.00	11,923.93	5,161.14	5,038.35	42.033	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 Hurley H35-787
Project:	Mustang	TVD Reference:	WELL @ 4851.00ft (Original Well Elev)
Reference Site:	H Section 26	MD Reference:	WELL @ 4851.00ft (Original Well Elev)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Hurley H35-787	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 #2	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						
H Section 25						
Emmy State H36-787 - Wellbore #1 - Plan #2	15,029.39	11,923.93	5,173.99	5,049.90	41.696	SF
HSR Cohn 03-25 - Original Drilling - Original Drilling - As	2,220.96	2,240.64	5,985.31	5,969.92	388.878	CC, ES
HSR Cohn 03-25 - Original Drilling - Original Drilling - As	7,300.00	6,844.90	7,137.82	7,088.62	145.050	SF
HSR Crowe 06-25 - Original Drilling - Original Drilling - As	2,212.99	2,218.39	5,851.37	5,836.10	383.142	CC, ES
HSR Crowe 06-25 - Original Drilling - Original Drilling - As	10,300.00	7,101.70	7,826.56	7,767.82	133.231	SF
HSR Dechant 04-25 - Original Drilling - Original Drilling -	2,360.74	2,805.67	4,971.66	4,943.37	175.781	CC
HSR Dechant 04-25 - Original Drilling - Original Drilling -	2,400.00	2,827.91	4,972.00	4,943.22	172.743	ES
HSR Dechant 04-25 - Original Drilling - Original Drilling -	6,900.00	7,168.65	5,996.84	5,925.36	83.890	SF
HSR Dechant 05-25 - Original Drilling - Original Drilling -	1,998.88	1,989.92	4,838.62	4,824.91	352.945	CC
HSR Dechant 05-25 - Original Drilling - Original Drilling -	2,200.00	2,178.84	4,839.00	4,823.92	320.721	ES
HSR Dechant 05-25 - Original Drilling - Original Drilling -	8,200.00	7,115.92	6,083.19	6,031.06	116.707	SF
KY Blue D30-32 - Original Drilling - Original Drilling - As D	2,221.55	2,230.63	8,982.84	8,967.49	585.503	CC, ES
KY Blue D30-32 - Original Drilling - Original Drilling - As D	6,800.00	6,576.01	9,991.07	9,943.91	211.843	SF
KY Blue H25-04J - Original Drilling - Original Drilling - As	8,838.45	7,400.00	9,281.18	9,250.35	301.036	CC
KY Blue H25-04J - Original Drilling - Original Drilling - As	8,900.00	7,400.00	9,281.39	9,250.30	298.535	ES
KY Blue H25-04J - Original Drilling - Original Drilling - As	12,500.00	7,400.00	9,977.34	9,928.40	203.849	SF
KY Blue H25-09 - Original Drilling - Original Drilling - As D	2,190.33	2,136.35	8,583.07	8,568.16	575.945	CC
KY Blue H25-09 - Original Drilling - Original Drilling - As D	2,200.00	2,143.21	8,583.07	8,568.11	573.687	ES
KY Blue H25-09 - Original Drilling - Original Drilling - As D	10,800.00	6,915.91	9,989.69	9,926.67	158.521	SF
KY Blue H25-10 - Original Drilling - Original Drilling - As D	100.00	38.75	7,074.98	7,074.78	10,000.000	CC
KY Blue H25-10 - Original Drilling - Original Drilling - As D	2,200.00	2,129.01	7,085.20	7,070.27	474.473	ES
KY Blue H25-10 - Original Drilling - Original Drilling - As D	12,400.00	7,058.98	9,382.89	9,313.54	135.300	SF
KY Blue H25-11 - Original Drilling - Original Drilling - As D	291.13	257.14	6,033.20	6,031.67	3,926.983	CC
KY Blue H25-11 - Original Drilling - Original Drilling - As D	900.00	830.90	6,034.14	6,028.42	1,054.192	ES
KY Blue H25-11 - Original Drilling - Original Drilling - As D	10,100.00	7,050.72	7,288.12	7,197.56	80.481	SF
KY Blue H25-12 - Original Drilling - Original Drilling - As D	2,288.51	2,410.67	4,526.15	4,509.60	273.409	CC
KY Blue H25-12 - Original Drilling - Original Drilling - As D	2,300.00	2,422.23	4,526.17	4,509.54	272.113	ES
KY Blue H25-12 - Original Drilling - Original Drilling - As D	9,800.00	6,856.11	5,828.78	5,772.14	102.900	SF
KY Blue H25-14 - Original Drilling - Original Drilling - As D	100.00	41.94	6,513.07	6,512.87	10,000.000	CC
KY Blue H25-14 - Original Drilling - Original Drilling - As D	2,200.00	2,146.43	6,515.46	6,500.48	435.127	ES
KY Blue H25-14 - Original Drilling - Original Drilling - As D	13,800.00	13,800.00	8,303.67	8,203.66	83.023	SF
KY Blue H25-15 - Original Drilling - Original Drilling - As D	306.22	260.22	7,431.76	7,430.16	4,644.164	CC
KY Blue H25-15 - Original Drilling - Original Drilling - As D	2,208.63	2,182.62	7,438.59	7,423.46	491.456	ES
KY Blue H25-15 - Original Drilling - Original Drilling - As D	13,400.00	6,887.64	9,107.50	9,031.76	120.241	SF
KY H25-24 - Original Drilling - Original Drilling - As Drilled	177.67	133.67	6,858.90	6,858.21	9,840.482	CC
KY H25-24 - Original Drilling - Original Drilling - As Drilled	600.00	521.42	6,859.80	6,856.24	1,923.837	ES
KY H25-24 - Original Drilling - Original Drilling - As Drilled	12,700.00	7,094.87	8,730.28	8,656.95	119.047	SF
Moore UPRC H25-01 - Original Drilling - Original Drilling	2,214.08	2,189.12	8,748.77	8,733.57	575.601	CC, ES
Moore UPRC H25-01 - Original Drilling - Original Drilling	7,500.00	6,926.06	9,988.22	9,938.31	200.132	SF
Moore UPRC H25-02 - Original Drilling - Original Drilling	1,324.77	1,283.78	7,353.65	7,344.82	832.657	CC
Moore UPRC H25-02 - Original Drilling - Original Drilling	2,210.48	2,196.38	7,354.37	7,339.19	484.320	ES
Moore UPRC H25-02 - Original Drilling - Original Drilling	10,800.00	6,917.40	9,995.85	9,936.90	169.584	SF
Moser 25-32 - Original Drilling - Original Drilling - As Drille	100.00	41.81	6,938.98	6,938.78	10,000.000	CC
Moser 25-32 - Original Drilling - Original Drilling - As Drille	2,247.94	2,320.99	6,939.17	6,923.42	440.567	ES
Moser 25-32 - Original Drilling - Original Drilling - As Drille	11,800.00	7,059.24	9,500.92	9,435.86	146.028	SF
Moser 25-42 - Original Drilling - Original Drilling - As Drille	774.75	715.76	8,587.21	8,582.34	1,763.188	CC
Moser 25-42 - Original Drilling - Original Drilling - As Drille	2,200.00	2,092.36	8,590.25	8,575.47	580.964	ES
Moser 25-42 - Original Drilling - Original Drilling - As Drille	8,900.00	6,941.77	9,990.47	9,936.64	185.609	SF
UPRR 53 Pan Am T#2 - Original Drilling - Original Drilling	2,252.48	2,345.39	5,610.98	5,595.14	354.052	CC, ES
UPRR 53 Pan Am T#2 - Original Drilling - Original Drilling	7,350.00	6,719.11	6,750.32	6,701.53	138.346	SF
UPRR 53 Pan Am UT T#1 - Original Drilling - Original Dri	100.00	35.86	7,986.07	7,985.88	10,000.000	CC
UPRR 53 Pan Am UT T#1 - Original Drilling - Original Dri	2,237.90	2,279.48	7,988.55	7,972.97	512.807	ES
UPRR 53 Pan Am UT T#1 - Original Drilling - Original Dri	10,300.00	7,015.61	9,990.36	9,931.31	169.169	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 Hurley H35-787
Project:	Mustang	TVD Reference:	WELL @ 4851.00ft (Original Well Elev)
Reference Site:	H Section 26	MD Reference:	WELL @ 4851.00ft (Original Well Elev)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Hurley H35-787	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 #2	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						
H Section 25						
Von Feldt 1-25B - Original Drilling - Original Drilling - As D	2,253.76	2,315.23	5,456.89	5,441.14	346.447	CC
Von Feldt 1-25B - Original Drilling - Original Drilling - As D	2,300.00	2,409.15	5,457.01	5,440.77	336.068	ES
Von Feldt 1-25B - Original Drilling - Original Drilling - As D	11,500.00	7,154.94	6,575.28	6,508.03	97.781	SF

Noble Energy, Inc.
Anticollision Summary Report

Company:	Northern Region - DJ Basin	Local Co-ordinate Reference:	Well Hurley H35-787
Project:	Mustang	TVD Reference:	WELL @ 4851.00ft (Original Well Elev)
Reference Site:	H Section 26	MD Reference:	WELL @ 4851.00ft (Original Well Elev)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Hurley H35-787	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 #2	Offset TVD Reference:	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Separation Factor	Warning
H Section 26						
Bullard 31-26 - Original Drilling - Original Drilling - As Dril	1,655.82	1,645.95	2,519.89	2,508.60	223.197	CC
Bullard 31-26 - Original Drilling - Original Drilling - As Dril	1,800.00	1,775.90	2,520.27	2,508.01	205.562	ES
Bullard 31-26 - Original Drilling - Original Drilling - As Dril	6,800.00	6,613.56	3,514.87	3,467.66	74.455	SF
Bullard 32-26 - Original Drilling - Original Drilling - As Dril	2,120.03	2,121.32	2,040.42	2,025.81	139.651	CC
Bullard 32-26 - Original Drilling - Original Drilling - As Dril	2,200.00	2,188.35	2,040.67	2,025.54	134.874	ES
Bullard 32-26 - Original Drilling - Original Drilling - As Dril	7,150.00	6,935.16	3,162.57	3,113.20	64.056	SF
Bullard 41-26 - Original Drilling - Original Drilling - As Dril	1,869.01	1,871.13	3,223.77	3,210.93	251.136	CC
Bullard 41-26 - Original Drilling - Original Drilling - As Dril	2,200.00	2,192.19	3,224.81	3,209.67	212.984	ES
Bullard 41-26 - Original Drilling - Original Drilling - As Dril	7,100.00	7,015.99	4,251.94	4,202.35	85.743	SF
Dechant H25-29D - Original Drilling - Original Drilling - As	111.86	132.04	3,813.36	3,812.89	7,990.839	CC
Dechant H25-29D - Original Drilling - Original Drilling - As	200.00	197.83	3,813.61	3,812.59	3,719.464	ES
Dechant H25-29D - Original Drilling - Original Drilling - As	7,700.00	7,700.00	7,272.37	7,216.62	130.462	SF
Dechant H25-33D - Original Drilling - Original Drilling - As	2,272.48	2,524.72	3,726.59	3,704.26	166.920	CC
Dechant H25-33D - Original Drilling - Original Drilling - As	2,300.00	2,537.68	3,726.78	3,704.24	165.332	ES
Dechant H25-33D - Original Drilling - Original Drilling - As	10,000.00	8,437.23	5,362.15	5,264.48	54.898	SF
Harsh H26-09D - Original Drilling - Original Drilling - As D	2,302.33	2,420.44	3,545.57	3,529.27	217.516	CC, ES
Harsh H26-09D - Original Drilling - Original Drilling - As D	9,000.00	7,022.47	4,664.90	4,610.47	85.711	SF
Harsh H26-10 - Original Drilling - Original Drilling - As Dri	2,201.17	2,208.06	2,370.13	2,354.93	155.922	CC, ES
Harsh H26-10 - Original Drilling - Original Drilling - As Dri	8,000.00	7,034.16	3,235.03	3,183.49	62.773	SF
Harsh H26-15 - Original Drilling - Original Drilling - As Dri	9,065.58	6,970.60	3,139.90	3,084.23	56.405	CC, ES
Harsh H26-15 - Original Drilling - Original Drilling - As Dri	9,600.00	6,975.48	3,185.05	3,127.51	55.359	SF
Harsh H26-16 - Original Drilling - Original Drilling - As Dri	2,330.31	2,453.81	3,990.45	3,973.93	241.617	CC, ES
Harsh H26-16 - Original Drilling - Original Drilling - As Dri	10,300.00	6,997.94	4,357.83	4,297.09	71.746	SF
Harsh H26-23D - Original Drilling - Original Drilling - As D	1,054.96	1,074.00	2,389.50	2,383.45	394.692	CC
Harsh H26-23D - Original Drilling - Original Drilling - As D	1,100.00	1,109.15	2,389.59	2,383.26	377.320	ES
Harsh H26-23D - Original Drilling - Original Drilling - As D	9,400.00	7,121.51	3,948.33	3,888.23	65.693	SF
HSR Moser 04-26 - Original Drilling - Original Drilling - As	1,940.37	1,905.15	1,840.53	1,827.33	139.413	CC
HSR Moser 04-26 - Original Drilling - Original Drilling - As	2,000.00	1,952.55	1,840.72	1,827.14	135.540	ES
HSR Moser 04-26 - Original Drilling - Original Drilling - As	6,650.00	6,482.04	2,032.28	1,985.45	43.395	SF
HSR Moser 06-26 - Original Drilling - Original Drilling - As	1,785.24	1,768.30	870.78	858.60	71.496	CC
HSR Moser 06-26 - Original Drilling - Original Drilling - As	2,200.00	2,181.06	871.97	856.87	57.747	ES
HSR Moser 06-26 - Original Drilling - Original Drilling - As	6,800.00	6,648.32	1,950.18	1,902.87	41.218	SF
HSR Regalia 05-26 - Original Drilling - Original Drilling - A	3,047.37	2,996.94	678.28	657.37	32.429	CC
HSR Regalia 05-26 - Original Drilling - Original Drilling - A	3,200.00	3,147.82	678.89	656.90	30.868	ES
HSR Regalia 05-26 - Original Drilling - Original Drilling - A	4,700.00	4,566.87	805.35	772.95	24.862	SF
HSR-Moser 03-26A - Original Drilling - Original Drilling - A	199.66	166.66	1,891.49	1,890.60	2,124.629	CC
HSR-Moser 03-26A - Original Drilling - Original Drilling - A	2,100.00	2,053.91	1,892.17	1,877.88	132.396	ES
HSR-Moser 03-26A - Original Drilling - Original Drilling - A	6,700.00	6,465.36	2,709.02	2,662.60	58.361	SF
Hurley H26-712 - Hurley H26-712 OH - As-Drilled	1,948.92	1,982.00	3,076.04	3,062.65	229.712	CC, ES
Hurley H26-712 - Hurley H26-712 OH - As-Drilled	8,900.00	6,424.00	5,144.39	5,097.40	109.491	SF
Hurley H26-717 - Hurley H26-717 OH - As-Drilled	1,946.91	1,980.00	3,051.57	3,038.18	227.933	CC
Hurley H26-717 - Hurley H26-717 OH - As-Drilled	2,000.00	2,009.83	3,051.76	3,038.18	224.695	ES
Hurley H26-717 - Hurley H26-717 OH - As-Drilled	8,300.00	6,895.00	4,805.30	4,758.38	102.428	SF
Hurley H26-724 - Hurley H26-724 OH - As-Drilled	2,019.84	2,053.88	3,034.67	3,020.88	220.121	CC
Hurley H26-724 - Hurley H26-724 OH - As-Drilled	2,200.00	2,210.80	3,035.08	3,020.57	209.230	ES
Hurley H26-724 - Hurley H26-724 OH - As-Drilled	7,000.00	7,178.00	4,075.05	4,030.36	91.197	SF
Hurley H26-730 - Hurley H26-730 OH - As-Drilled	2,202.43	2,238.09	3,004.80	2,990.42	208.872	CC, ES
Hurley H26-730 - Hurley H26-730 OH - As-Drilled	6,900.00	6,940.70	3,661.70	3,618.22	84.230	SF
Hurley H26-736 - Hurley H26-736 OH - As-Drilled	2,654.00	3,152.06	2,936.96	2,919.94	172.589	CC, ES
Hurley H26-736 - Hurley H26-736 OH - As-Drilled	7,000.00	6,833.84	3,368.03	3,324.02	76.519	SF
Hurley H26-743 - Hurley H26-743 OH - As-Drilled	6,412.29	7,397.95	2,785.18	2,740.46	62.290	CC, ES
Hurley H26-743 - Hurley H26-743 OH - As-Drilled	6,750.00	7,407.92	2,806.22	2,760.39	61.233	SF
Hurley H26-750 - Hurley H26-750 OH - As-Drilled	2,200.54	2,201.60	180.89	166.54	12.605	CC, 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 Hurley H35-787
Project:	Mustang	TVD Reference:	WELL @ 4851.00ft (Original Well Elev)
Reference Site:	H Section 26	MD Reference:	WELL @ 4851.00ft (Original Well Elev)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Hurley H35-787	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 #2	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
H Section 26						
Hurley H26-750 - Hurley H26-750 OH - As-Drilled	2,400.00	2,399.37	184.34	169.18	12.160	SF
Hurley H26-756 - Hurley H26-756 OH - As-Drilled	578.25	579.25	174.84	171.18	47.723	CC
Hurley H26-756 - Hurley H26-756 OH - As-Drilled	2,200.00	2,201.00	177.14	162.82	12.367	ES
Hurley H26-756 - Hurley H26-756 OH - As-Drilled	2,500.00	2,500.51	183.37	167.80	11.777	SF
Hurley H26-762 - Hurley H26-762 OH - As-Drilled	2,073.13	2,073.14	162.35	148.52	11.736	CC
Hurley H26-762 - Hurley H26-762 OH - As-Drilled	2,200.00	2,200.01	162.37	148.03	11.327	ES
Hurley H26-762 - Hurley H26-762 OH - As-Drilled	2,600.00	2,596.64	171.49	155.46	10.700	SF
Hurley H26-768 - Hurley H26-768 OH - As-Drilled	100.00	99.94	158.63	158.35	572.116	CC
Hurley H26-768 - Hurley H26-768 OH - As-Drilled	2,206.38	2,206.47	163.41	149.04	11.375	ES
Hurley H26-768 - Hurley H26-768 OH - As-Drilled	2,500.00	2,491.79	170.68	155.11	10.964	SF
Hurley H26-776 - Hurley H26-776 OH - As-Drilled	433.54	433.54	152.86	150.22	57.856	CC
Hurley H26-776 - Hurley H26-776 OH - As-Drilled	2,304.15	2,304.02	154.67	139.92	10.490	ES
Hurley H26-776 - Hurley H26-776 OH - As-Drilled	2,900.00	2,898.92	166.31	148.81	9.505	SF
Hurley H26-783 - Hurley H26-783 OH - As-drilled	0.00	0.00	153.02			
Hurley H26-783 - Hurley H26-783 OH - As-drilled	2,003.65	2,003.69	156.37	142.77	11.495	ES
Hurley H26-783 - Hurley H26-783 OH - As-drilled	6,958.94	7,085.21	449.55	404.75	10.035	SF
Hurley H35-727 - Wellbore #1 - Plan #2	2,200.00	2,234.00	3,041.08	3,025.65	197.106	CC, ES
Hurley H35-727 - Wellbore #1 - Plan #2	15,029.39	15,001.32	3,829.24	3,683.41	26.259	SF
Hurley H35-733 - Wellbore #1 - Plan #2	2,634.89	3,122.03	2,979.64	2,959.80	150.204	CC, ES
Hurley H35-733 - Wellbore #1 - Plan #2	15,029.39	15,369.35	3,208.76	3,062.56	21.947	SF
Hurley H35-746 - Wellbore #1 - Plan #2	15,029.39	15,188.72	2,510.09	2,364.04	17.187	CC, ES, SF
Hurley H35-755 - Wellbore #1 - Plan #2	2,200.00	2,201.00	111.80	96.49	7.302	CC, ES
Hurley H35-755 - Wellbore #1 - Plan #2	2,300.00	2,297.26	115.16	99.17	7.202	SF
Hurley H35-768 - Wellbore #1 - Plan #2	2,200.00	2,201.00	67.14	51.83	4.385	CC, ES
Hurley H35-768 - Wellbore #1 - Plan #2	2,300.00	2,300.98	68.85	52.84	4.299	SF
Hurley H35-774 - Wellbore #1 - Plan #2	2,200.00	2,201.00	44.84	29.53	2.929	CC, ES
Hurley H35-774 - Wellbore #1 - Plan #2	2,300.00	2,300.98	46.55	30.53	2.906	SF
Hurley State H35-713 - Wellbore #1 - Plan #2	2,200.00	2,233.00	3,085.75	3,070.32	200.048	CC, ES
Hurley State H35-713 - Wellbore #1 - Plan #2	15,029.39	15,174.64	4,514.01	4,368.22	30.963	SF
John 03-26 - Original Drilling - Original Drilling - As Drilled	2,227.84	2,209.73	1,624.09	1,608.78	106.088	CC
John 03-26 - Original Drilling - Original Drilling - As Drilled	2,300.00	2,285.26	1,624.57	1,608.74	102.659	ES
John 03-26 - Original Drilling - Original Drilling - As Drilled	6,750.00	6,612.66	2,459.31	2,412.19	52.189	SF
Lamp H25-31 - Original Drilling - Original Drilling - As Dril	488.48	496.49	3,954.71	3,951.63	1,283.885	CC
Lamp H25-31 - Original Drilling - Original Drilling - As Dril	2,244.39	2,313.83	3,959.71	3,943.99	251.878	ES
Lamp H25-31 - Original Drilling - Original Drilling - As Dril	7,250.00	7,094.30	5,116.51	5,066.35	102.015	SF
Lamp H26-01 - Original Drilling - Original Drilling - As Dril	1,837.04	1,845.76	3,956.26	3,943.58	312.091	CC
Lamp H26-01 - Original Drilling - Original Drilling - As Dril	2,400.00	2,630.27	3,958.49	3,940.42	219.031	ES
Lamp H26-01 - Original Drilling - Original Drilling - As Dril	7,100.00	6,983.32	4,980.70	4,927.50	93.623	SF
Lamp H26-08 - Original Drilling - Original Drilling - As Dril	2,234.93	2,278.10	3,359.06	3,343.49	215.709	CC, ES
Lamp H26-08 - Original Drilling - Original Drilling - As Dril	7,200.00	6,761.72	4,523.79	4,475.11	92.938	SF
Lamp H26-22 - Original Drilling - Original Drilling - As Dril	2,741.62	3,386.76	3,211.29	3,188.03	138.057	CC
Lamp H26-22 - Original Drilling - Original Drilling - As Dril	2,861.79	3,558.14	3,212.40	3,187.73	130.191	ES
Lamp H26-22 - Original Drilling - Original Drilling - As Dril	7,200.00	7,170.25	3,721.27	3,665.42	66.621	SF
Moser 05-26 - Original Drilling - Original Drilling - As Drille	5,593.00	5,487.37	183.71	144.45	4.680	CC
Moser 05-26 - Original Drilling - Original Drilling - As Drille	5,600.00	5,494.13	183.71	144.41	4.674	ES
Moser 05-26 - Original Drilling - Original Drilling - As Drille	5,700.00	5,591.09	185.64	145.64	4.641	SF
Moser 41-27 - Original Drilling - Original Drilling - As Drille	936.24	908.60	777.87	771.74	126.861	CC, ES
Moser 41-27 - Original Drilling - Original Drilling - As Drille	6,700.00	6,658.76	1,106.95	1,058.03	22.629	SF
Moser H26-11 - Original Drilling - Original Drilling - As Dri	2,316.22	2,310.54	1,036.01	1,020.04	64.903	CC
Moser H26-11 - Original Drilling - Original Drilling - As Dri	2,400.00	2,395.71	1,036.40	1,019.85	62.640	ES
Moser H26-11 - Original Drilling - Original Drilling - As Dri	7,700.00	6,984.18	1,580.07	1,529.40	31.181	SF
Moser H26-12 - Wellbore #1 - Wellbore #1 - As Drilled	7,833.98	6,992.01	436.18	385.04	8.529	CC, ES, SF
Moser H26-13 - Wellbore #1 - Wellbore #1 - As Drilled	9,143.71	7,000.31	385.32	329.02	6.844	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 Hurley H35-787
Project:	Mustang	TVD Reference:	WELL @ 4851.00ft (Original Well Elev)
Reference Site:	H Section 26	MD Reference:	WELL @ 4851.00ft (Original Well Elev)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Hurley H35-787	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 #2	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						
H Section 26						
Moser H26-14 - Original Drilling - Original Drilling - As Dr	9,347.32	7,097.42	1,916.20	1,858.28	33.084	CC, ES
Moser H26-14 - Original Drilling - Original Drilling - As Dr	9,500.00	7,096.15	1,922.27	1,863.92	32.940	SF
Moser H26-18D - Original Drilling - Original Drilling - As D	4,799.46	5,684.01	2,342.47	2,301.08	56.600	CC
Moser H26-18D - Original Drilling - Original Drilling - As D	4,800.00	5,684.01	2,342.47	2,301.08	56.597	ES
Moser H26-18D - Original Drilling - Original Drilling - As D	6,750.00	7,080.16	2,656.25	2,604.81	51.643	SF
Moser H26-24 - Original Drilling - Original Drilling - As Dr	2,132.52	2,133.77	2,050.06	2,035.36	139.427	CC
Moser H26-24 - Original Drilling - Original Drilling - As Dr	2,200.00	2,189.19	2,050.26	2,035.12	135.442	ES
Moser H26-24 - Original Drilling - Original Drilling - As Dr	8,600.00	6,990.46	2,252.15	2,198.88	42.275	SF
Moser H26-25 - Original Drilling - Original Drilling - As Dr	8,534.79	6,992.12	1,435.16	1,381.72	26.856	CC, ES
Moser H26-25 - Original Drilling - Original Drilling - As Dr	8,600.00	6,991.91	1,436.64	1,383.09	26.828	SF
Moser H26-27D - Original Drilling - Original Drilling - As D	2,463.31	2,846.11	3,645.69	3,625.22	178.088	CC
Moser H26-27D - Original Drilling - Original Drilling - As D	2,500.00	2,881.35	3,645.92	3,625.12	175.292	ES
Moser H26-27D - Original Drilling - Original Drilling - As D	6,900.00	6,941.73	4,445.56	4,391.57	82.336	SF
Moser H26-28D - Original Drilling - Original Drilling - As D	4,251.69	5,289.24	3,025.83	2,968.57	52.843	CC
Moser H26-28D - Original Drilling - Original Drilling - As D	4,300.00	5,315.01	3,026.09	2,968.34	52.398	ES
Moser H26-28D - Original Drilling - Original Drilling - As D	6,550.00	7,035.26	3,295.25	3,221.42	44.633	SF
Moser H26-29D - Original Drilling - Original Drilling - As D	4,889.76	6,074.13	2,616.07	2,537.81	33.426	CC
Moser H26-29D - Original Drilling - Original Drilling - As D	5,400.00	6,612.70	2,618.44	2,531.35	30.065	ES
Moser H26-29D - Original Drilling - Original Drilling - As D	6,600.00	7,620.32	2,684.09	2,583.92	26.796	SF
Moser, Wesley E. G. U. B1 (PA) - Original Drilling - Origin	8,825.42	7,002.00	786.03	615.49	4.609	CC, ES, SF

Noble Energy, Inc.
Anticollision Summary Report

Company:	Northern Region - DJ Basin	Local Co-ordinate Reference:	Well Hurley H35-787
Project:	Mustang	TVD Reference:	WELL @ 4851.00ft (Original Well Elev)
Reference Site:	H Section 26	MD Reference:	WELL @ 4851.00ft (Original Well Elev)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Hurley H35-787	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 #2	Offset TVD Reference:	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Separation Factor	Warning
H Section 27						
HSR Moser 10-27 - Wellbore #1 - Wellbore #1 - As Drilled	7,844.44	7,021.90	2,163.89	2,112.65	42.230	CC, ES
HSR Moser 10-27 - Wellbore #1 - Wellbore #1 - As Drilled	8,200.00	7,012.96	2,192.90	2,140.25	41.651	SF
HSR Moser 1-27 - Original Drilling - Original Drilling - As	6,549.29	6,348.03	2,086.53	2,040.44	45.272	CC
HSR Moser 1-27 - Original Drilling - Original Drilling - As	6,550.00	6,348.66	2,086.53	2,040.44	45.267	ES
HSR Moser 1-27 - Original Drilling - Original Drilling - As	6,750.00	6,516.62	2,116.95	2,069.51	44.622	SF
HSR Moser 15-27 - Wellbore #1 - Wellbore #1 - As Drilled	9,158.76	6,955.06	2,422.92	2,366.63	43.043	CC, ES
HSR Moser 15-27 - Wellbore #1 - Wellbore #1 - As Drilled	9,800.00	6,971.41	2,506.26	2,445.94	41.549	SF
HSR Moser 16-27 - Original Drilling - Original Drilling - As	9,299.11	6,997.66	712.03	655.01	12.487	CC
HSR Moser 16-27 - Original Drilling - Original Drilling - As	9,300.00	6,997.66	712.03	655.00	12.485	ES
HSR Moser 16-27 - Original Drilling - Original Drilling - As	9,400.00	6,998.20	719.14	661.16	12.401	SF
HSR Thorson 09-27 - Wellbore #1 - Wellbore #1 - As Dril	8,191.64	6,974.60	1,241.40	1,189.17	23.769	CC
HSR Thorson 09-27 - Wellbore #1 - Wellbore #1 - As Dril	8,200.00	6,974.66	1,241.43	1,189.16	23.749	ES
HSR Thorson 09-27 - Wellbore #1 - Wellbore #1 - As Dril	8,400.00	6,976.01	1,258.77	1,205.40	23.589	SF
Moser 09-27X (PA) - Original Drilling - Original Drilling - A	7,884.53	7,012.54	752.92	698.99	13.963	CC, ES
Moser 09-27X (PA) - Original Drilling - Original Drilling - A	7,900.00	7,012.27	753.07	699.08	13.947	SF
Moser 23-27 - Wellbore #1 - Wellbore #1 - As Drilled	8,502.71	7,400.01	2,865.81	2,788.54	37.086	CC, ES
Moser 23-27 - Wellbore #1 - Wellbore #1 - As Drilled	9,200.00	7,400.01	2,949.42	2,866.35	35.505	SF
Moser 24-27 - Original Drilling - Original Drilling - As Drille	7,312.35	7,027.61	1,488.30	1,436.30	28.620	CC, ES
Moser 24-27 - Original Drilling - Original Drilling - As Drille	7,350.00	7,037.09	1,488.99	1,436.96	28.616	SF
Moser 39-27 - Original Drilling - Original Drilling - As Drille	8,697.40	7,110.57	321.59	262.54	5.446	CC
Moser 39-27 - Original Drilling - Original Drilling - As Drille	8,700.00	7,110.57	321.60	262.54	5.445	ES, SF
Moser 7-27 - Wellbore #1 - Wellbore #1 - As Drilled	6,970.74	6,779.71	2,224.30	2,175.71	45.781	CC, ES
Moser 7-27 - Wellbore #1 - Wellbore #1 - As Drilled	7,200.00	6,907.88	2,245.15	2,195.36	45.096	SF
Moser Farms UPRR 31-27 #1 - Wellbore #1 - Wellbore #	6,662.20	6,423.55	2,949.87	2,903.34	63.390	CC, ES
Moser Farms UPRR 31-27 #1 - Wellbore #1 - Wellbore #	7,000.00	6,665.69	3,010.56	2,961.95	61.936	SF
Moser Farms UPRR 42-27 #3 - Original Drilling - Original	6,832.85	6,671.81	885.45	837.63	18.520	CC, ES
Moser Farms UPRR 42-27 #3 - Original Drilling - Original	6,950.00	6,758.51	893.05	844.47	18.381	SF
Moser H22-711 - Original Drilling - Original Drilling - As D	6,407.25	6,291.07	2,253.54	2,209.08	50.684	CC
Moser H22-711 - Original Drilling - Original Drilling - As D	6,500.00	6,348.00	2,254.10	2,209.07	50.060	ES
Moser H22-711 - Original Drilling - Original Drilling - As D	6,700.00	6,443.00	2,286.59	2,240.51	49.621	SF
Moser H22-715 - Original Drilling - Original Drilling - As D	6,525.94	6,348.00	2,334.28	2,289.24	51.835	CC, ES
Moser H22-715 - Original Drilling - Original Drilling - As D	6,650.00	6,388.54	2,347.27	2,301.65	51.451	SF
Moser H22-725 - Original Drilling - Original Drilling - As D	100.00	84.77	2,617.50	2,617.23	9,572.069	CC
Moser H22-725 - Original Drilling - Original Drilling - As D	6,561.37	6,416.02	2,653.01	2,607.71	58.569	ES
Moser H22-725 - Original Drilling - Original Drilling - As D	6,700.00	6,443.00	2,668.83	2,622.86	58.058	SF
Moser H22-735 - Original Drilling - Original Drilling - As D	6,573.25	6,308.00	3,173.61	3,130.82	74.182	CC, ES
Moser H22-735 - Original Drilling - Original Drilling - As D	6,750.00	6,349.23	3,196.15	3,152.58	73.360	SF
Moser H22-745 - Original Drilling - Original Drilling - As D	6,585.57	6,274.99	3,618.61	3,580.62	95.248	CC, ES
Moser H22-745 - Original Drilling - Original Drilling - As D	6,900.00	6,340.22	3,676.95	3,637.71	93.697	SF
Moser H22-748 - Original Drilling - Original Drilling - As D	3,765.04	3,092.00	3,654.06	3,633.46	177.401	CC, ES
Moser H22-748 - Original Drilling - Original Drilling - As D	6,850.00	6,311.00	3,773.34	3,731.02	89.167	SF
Moser H22-750 - Original Drilling - Original Drilling - As D	6,651.18	6,479.90	3,872.37	3,834.29	101.694	CC, ES
Moser H22-750 - Original Drilling - Original Drilling - As D	6,950.00	6,563.84	3,925.31	3,886.00	99.846	SF
Moser H22-755 - Original Drilling - Original Drilling - As D	6,631.61	6,230.00	4,300.08	4,261.60	111.741	CC, ES
Moser H22-755 - Original Drilling - Original Drilling - As D	6,950.00	6,324.00	4,354.50	4,314.92	110.017	SF
Moser H22-765 - Original Drilling - Original Drilling - As D	6,691.68	6,456.00	4,722.45	4,678.45	107.349	CC, ES
Moser H22-765 - Original Drilling - Original Drilling - As D	7,050.00	6,551.00	4,786.73	4,741.39	105.575	SF
Moser H22-776 - Original Drilling - Original Drilling - As D	6,699.42	6,431.00	5,442.63	5,398.01	121.980	CC
Moser H22-776 - Original Drilling - Original Drilling - As D	6,700.00	6,431.00	5,442.63	5,398.01	121.974	ES
Moser H22-776 - Original Drilling - Original Drilling - As D	7,100.00	6,525.00	5,521.43	5,475.07	119.087	SF
Moser H34-717 - Original Drilling - Original Drilling - As D	9,500.27	11,286.25	564.67	483.94	6.994	CC, ES
Moser H34-717 - Original Drilling - Original Drilling - As D	14,600.00	16,342.00	653.16	498.89	4.234	SF
Moser H34-725 - Original Drilling - Original Drilling - As D	7,478.05	9,610.61	1,123.32	1,064.16	18.989	CC

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 Hurley H35-787
Project:	Mustang	TVD Reference:	WELL @ 4851.00ft (Original Well Elev)
Reference Site:	H Section 26	MD Reference:	WELL @ 4851.00ft (Original Well Elev)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Hurley H35-787	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 #2	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
H Section 27						
Moser H34-725 - Original Drilling - Original Drilling - As D	11,800.00	13,923.08	1,149.01	1,037.99	10.350	ES
Moser H34-725 - Original Drilling - Original Drilling - As D	14,600.00	16,701.00	1,228.27	1,075.14	8.021	SF
Moser H34-735 - Original Drilling - Original Drilling - As D	14,548.02	16,441.00	1,878.69	1,647.12	8.113	CC, ES
Moser H34-735 - Original Drilling - Original Drilling - As D	14,600.00	16,441.00	1,879.41	1,647.44	8.102	SF
Moser H34-748 - Original Drilling - Original Drilling - As D	7,368.84	9,246.00	2,646.72	2,574.22	36.506	CC
Moser H34-748 - Original Drilling - Original Drilling - As D	14,400.00	16,346.00	2,677.45	2,439.61	11.257	ES
Moser H34-748 - Original Drilling - Original Drilling - As D	14,700.00	16,561.00	2,691.01	2,447.04	11.030	SF
Moser H34-750 - Original Drilling - Original Drilling - As D	14,545.78	16,800.00	2,871.49	2,714.28	18.265	CC, ES
Moser H34-750 - Original Drilling - Original Drilling - As D	14,800.00	16,800.00	2,882.72	2,723.89	18.149	SF
Moser H34-757 - Original Drilling - Original Drilling - As D	14,541.79	16,873.00	3,317.85	3,161.90	21.276	CC, ES
Moser H34-757 - Original Drilling - Original Drilling - As D	14,900.00	16,873.00	3,337.13	3,178.77	21.073	SF
Moser H34-769 - Original Drilling - Original Drilling - As D	14,431.52	16,544.54	4,454.84	4,293.75	27.655	CC
Moser H34-769 - Original Drilling - Original Drilling - As D	14,500.00	16,578.00	4,455.06	4,293.15	27.516	ES
Moser H34-769 - Original Drilling - Original Drilling - As D	15,029.39	16,650.00	4,483.35	4,317.09	26.966	SF
Moser H34-778 - Original Drilling - Original Drilling -As Dr	9,856.50	12,034.46	4,715.55	4,622.09	50.458	CC
Moser H34-778 - Original Drilling - Original Drilling -As Dr	13,700.00	15,792.00	4,721.56	4,573.03	31.789	ES
Moser H34-778 - Original Drilling - Original Drilling -As Dr	15,000.00	16,453.00	4,808.13	4,644.98	29.471	SF
Moser H34-778 - Original Drilling - ST01 - Original Drilling	8,693.34	10,850.16	4,732.34	4,671.32	77.550	CC
Moser H34-778 - Original Drilling - ST01 - Original Drilling	14,200.00	16,303.23	4,753.62	4,611.43	33.430	ES
Moser H34-778 - Original Drilling - ST01 - Original Drilling	15,000.00	16,440.00	4,809.41	4,660.61	32.322	SF
Ritchey 1-27 1 - Wellbore #1 - Wellbore #1 - As Drilled	6,950.00	6,625.50	4,049.70	4,001.68	84.342	CC
Ritchey 1-27 1 - Wellbore #1 - Wellbore #1 - As Drilled	7,000.00	7,000.00	4,050.09	4,000.61	81.848	ES
Ritchey 1-27 1 - Wellbore #1 - Wellbore #1 - As Drilled	7,400.00	6,965.20	4,107.96	4,057.49	81.388	SF
Ritchey H27-04 - Wellbore #1 - Wellbore #1- As Drilled	6,811.09	6,506.24	5,570.80	5,523.56	117.928	CC, ES
Ritchey H27-04 - Wellbore #1 - Wellbore #1- As Drilled	7,350.00	6,848.85	5,671.35	5,621.23	113.164	SF
Ritchey H27-05 - Wellbore #1 - Wellbore #1- As Drilled	7,115.73	6,948.08	5,278.23	5,228.70	106.570	CC, ES
Ritchey H27-05 - Wellbore #1 - Wellbore #1- As Drilled	8,700.00	7,014.86	5,721.61	5,666.69	104.182	SF
Ritchey H27-11 - Wellbore #1 - Wellbore #1 - As Drilled	7,781.82	7,011.72	3,627.04	3,575.95	70.991	CC
Ritchey H27-11 - Wellbore #1 - Wellbore #1 - As Drilled	7,800.00	7,011.46	3,627.09	3,575.94	70.920	ES
Ritchey H27-11 - Wellbore #1 - Wellbore #1 - As Drilled	9,000.00	6,996.25	3,826.12	3,769.93	68.084	SF
Ritchey H27-12 - Wellbore #1 - Wellbore #1- As Drilled	7,609.87	6,883.10	4,825.96	4,775.57	95.771	CC, ES
Ritchey H27-12 - Wellbore #1 - Wellbore #1- As Drilled	14,500.00	14,500.00	8,411.88	8,311.51	83.807	SF
Ritchey H27-14 - Wellbore #1 - Wellbore #1 - As Drilled	9,126.34	7,007.19	3,633.15	3,576.96	64.661	CC, ES
Ritchey H27-14 - Wellbore #1 - Wellbore #1 - As Drilled	10,400.00	7,032.56	3,849.86	3,786.05	60.336	SF
Ritchey H27-20 - Wellbore #1 - Wellbore #1 - As Drilled	7,346.47	6,689.28	4,571.63	4,522.11	92.335	CC
Ritchey H27-20 - Wellbore #1 - Wellbore #1 - As Drilled	7,350.00	6,689.82	4,571.63	4,522.11	92.315	ES
Ritchey H27-20 - Wellbore #1 - Wellbore #1 - As Drilled	9,100.00	6,689.14	4,959.96	4,903.92	88.495	SF
Ritchey H27-21 - Wellbore #1 - Wellbore #1 - As Drilled	7,303.46	6,977.61	3,002.03	2,951.92	59.906	CC, ES
Ritchey H27-21 - Wellbore #1 - Wellbore #1 - As Drilled	7,503.58	7,000.01	3,016.14	2,965.44	59.483	SF
Ritchey H27-25 - Wellbore #1 - Wellbore #1 - As Drilled	8,560.18	7,022.47	4,314.20	4,260.47	80.294	CC, ES
Ritchey H27-25 - Wellbore #1 - Wellbore #1 - As Drilled	10,300.00	7,033.40	4,651.48	4,588.38	73.726	SF
Ritchey H34-28 - Wellbore #1 - Wellbore #1 - As Drilled	9,804.79	6,762.75	3,217.77	3,158.25	54.064	CC, ES
Ritchey H34-28 - Wellbore #1 - Wellbore #1 - As Drilled	10,800.00	6,772.30	3,368.14	3,302.18	51.059	SF
Ritchey H34-29 - Wellbore #1 - Wellbore #1 - As Drilled	9,493.24	7,057.20	4,318.39	4,260.08	74.065	CC
Ritchey H34-29 - Wellbore #1 - Wellbore #1 - As Drilled	9,500.00	7,056.83	4,318.40	4,260.05	74.012	ES
Ritchey H34-29 - Wellbore #1 - Wellbore #1 - As Drilled	11,100.00	6,967.04	4,606.81	4,538.78	67.720	SF
UPRR 53 Pan Am Unit "O" 1 - Original Drilling - Original D	6,766.36	6,623.71	1,790.38	1,742.89	37.700	CC, ES
UPRR 53 Pan Am Unit "O" 1 - Original Drilling - Original D	7,000.00	6,807.23	1,817.55	1,768.55	37.099	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 Hurley H35-787
Project:	Mustang	TVD Reference:	WELL @ 4851.00ft (Original Well Elev)
Reference Site:	H Section 26	MD Reference:	WELL @ 4851.00ft (Original Well Elev)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Hurley H35-787	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 #2	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						
H Section 34						
Cannon H34-11 - Wellbore #1 - Wellbore #1 - As Drilled	13,162.64	6,854.77	3,665.98	3,583.64	44.520	CC
Cannon H34-11 - Wellbore #1 - Wellbore #1 - As Drilled	13,200.00	6,855.15	3,666.17	3,583.50	44.343	ES
Cannon H34-11 - Wellbore #1 - Wellbore #1 - As Drilled	14,100.00	6,863.90	3,783.91	3,694.73	42.433	SF
Cannon H34-12 - Wellbore #1 - Wellbore #1 - As Drilled	13,098.95	7,023.18	4,891.90	4,809.79	59.579	CC
Cannon H34-12 - Wellbore #1 - Wellbore #1 - As Drilled	13,100.00	7,023.18	4,891.90	4,809.78	59.572	ES
Cannon H34-12 - Wellbore #1 - Wellbore #1 - As Drilled	14,600.00	7,022.27	5,117.01	5,024.36	55.227	SF
Cannon H34-13 - Wellbore #1 - Wellbore #1 - As Drilled	14,379.94	6,900.01	4,812.82	4,721.35	52.617	CC
Cannon H34-13 - Wellbore #1 - Wellbore #1 - As Drilled	14,400.00	6,900.01	4,812.86	4,721.21	52.515	ES
Cannon H34-13 - Wellbore #1 - Wellbore #1 - As Drilled	15,029.39	6,900.01	4,856.44	4,759.73	50.218	SF
Cannon H34-14 - Wellbore #1 - Wellbore #1 - As Drilled	14,454.34	7,100.01	3,641.69	3,549.26	39.397	CC
Cannon H34-14 - Wellbore #1 - Wellbore #1 - As Drilled	14,500.00	7,100.01	3,641.98	3,549.12	39.222	ES
Cannon H34-14 - Wellbore #1 - Wellbore #1 - As Drilled	15,029.39	7,100.01	3,686.82	3,589.76	37.985	SF
Cannon H34-25 - Wellbore #1 - Wellbore #1 - As Drilled	13,702.21	7,015.34	4,255.92	4,169.30	49.133	CC, ES
Cannon H34-25 - Wellbore #1 - Wellbore #1 - As Drilled	14,800.00	7,001.05	4,395.20	4,300.62	46.469	SF
Cannon Land 11-34 - Wellbore #1 - Wellbore #1 - As Drill	12,936.14	6,933.12	3,638.60	3,557.80	45.031	CC
Cannon Land 11-34 - Wellbore #1 - Wellbore #1 - As Drill	13,000.00	6,933.81	3,639.16	3,557.79	44.725	ES
Cannon Land 11-34 - Wellbore #1 - Wellbore #1 - As Drill	13,800.00	6,942.87	3,739.73	3,652.50	42.873	SF
Cannon X 03-29 - Wellbore #1 - Wellbore #1 - As Drilled	14,948.83	7,052.03	4,209.06	4,112.96	43.797	CC
Cannon X 03-29 - Wellbore #1 - Wellbore #1 - As Drilled	15,000.00	7,051.05	4,209.37	4,112.81	43.590	ES
Cannon X 03-29 - Wellbore #1 - Wellbore #1 - As Drilled	15,029.39	7,050.50	4,209.83	4,113.01	43.477	SF
Cannon X 03-30D - Wellbore #1 - Wellbore #1 - As Drilled	14,974.43	7,246.78	5,435.52	5,335.45	54.317	CC
Cannon X 03-30D - Wellbore #1 - Wellbore #1 - As Drilled	15,029.39	7,246.46	5,435.80	5,335.17	54.019	ES, SF
Moser 34-06 - Original Drilling - Original Drilling - As Drille	11,446.71	7,008.63	3,919.30	3,849.04	55.781	CC
Moser 34-06 - Original Drilling - Original Drilling - As Drille	11,500.00	7,008.74	3,919.66	3,848.96	55.443	ES
Moser 34-06 - Original Drilling - Original Drilling - As Drille	12,600.00	7,010.82	4,085.46	4,007.08	52.125	SF
Moser H34-01 - Original Drilling - Original Drilling - As Dr	10,608.69	7,032.22	892.36	827.86	13.835	CC, ES
Moser H34-01 - Original Drilling - Original Drilling - As Dr	10,700.00	7,030.45	897.02	831.52	13.695	SF
Moser H34-02 - Wellbore #1 - Wellbore #1 - As Drilled	10,504.78	7,081.62	2,193.02	2,128.99	34.251	CC, ES
Moser H34-02 - Wellbore #1 - Wellbore #1 - As Drilled	11,000.00	7,110.49	2,248.06	2,180.33	33.192	SF
Moser H34-04 - Wellbore #1 - Wellbore #1 - As Drilled	10,493.49	6,927.85	4,953.92	4,890.05	77.565	CC
Moser H34-04 - Wellbore #1 - Wellbore #1 - As Drilled	10,500.00	6,927.95	4,953.92	4,890.01	77.507	ES
Moser H34-04 - Wellbore #1 - Wellbore #1 - As Drilled	12,400.00	6,958.93	5,307.99	5,231.66	69.533	SF
Moser H34-06 - Wellbore #1 - Wellbore #1 - As Drilled	11,446.71	7,008.63	3,919.30	3,849.04	55.781	CC
Moser H34-06 - Wellbore #1 - Wellbore #1 - As Drilled	11,500.00	7,008.74	3,919.66	3,848.96	55.443	ES
Moser H34-06 - Wellbore #1 - Wellbore #1 - As Drilled	12,600.00	7,010.83	4,085.46	4,007.08	52.125	SF
Moser H34-08 - Original Drilling - Original Drilling - As Dr	11,465.01	7,013.14	1,278.68	1,208.36	18.182	CC, ES
Moser H34-08 - Original Drilling - Original Drilling - As Dr	11,600.00	7,012.78	1,285.79	1,214.14	17.944	SF
Moser H34-09 - Wellbore #1 - Wellbore #1 - As Drilled	13,118.77	7,012.75	799.11	716.97	9.728	CC, ES
Moser H34-09 - Wellbore #1 - Wellbore #1 - As Drilled	13,200.00	7,012.92	803.23	720.12	9.665	SF
Moser H34-10 - Wellbore #1 - Wellbore #1 - As Drilled	13,005.44	6,989.91	2,252.67	2,171.28	27.676	CC, ES
Moser H34-10 - Wellbore #1 - Wellbore #1 - As Drilled	13,400.00	6,991.33	2,286.97	2,202.34	27.024	SF
Moser H34-15 - Wellbore #1 - Wellbore #1 - As Drilled	14,344.16	7,025.66	2,215.37	2,123.92	24.225	CC, ES
Moser H34-15 - Wellbore #1 - Wellbore #1 - As Drilled	14,700.00	7,029.82	2,243.77	2,149.36	23.768	SF
Moser H34-16 - Wellbore #1 - Wellbore #1 - As Drilled	14,367.59	7,001.26	810.20	718.56	8.841	CC, ES
Moser H34-16 - Wellbore #1 - Wellbore #1 - As Drilled	14,400.00	7,000.38	810.85	718.78	8.807	SF
Moser H34-18 - Wellbore #1 - Wellbore #1 - As Drilled	11,146.24	6,974.15	3,050.95	2,982.76	44.745	CC, ES
Moser H34-18 - Wellbore #1 - Wellbore #1 - As Drilled	11,900.00	6,975.29	3,142.68	3,069.00	42.655	SF
Moser H34-20 - Wellbore #1 - Wellbore #1 - As Drilled	12,314.70	7,019.64	4,249.85	4,173.45	55.629	CC, ES
Moser H34-20 - Wellbore #1 - Wellbore #1 - As Drilled	13,600.00	6,993.45	4,439.90	4,354.48	51.981	SF
Moser H34-21 - Wellbore #1 - Wellbore #1 - As Drilled	12,210.19	6,982.15	3,111.45	3,035.89	41.178	CC, ES
Moser H34-21 - Wellbore #1 - Wellbore #1 - As Drilled	12,900.00	6,982.91	3,187.00	3,106.21	39.451	SF
Moser H34-22 - Wellbore #1 - Wellbore #1 - As Drilled	12,273.87	7,004.45	1,469.64	1,393.56	19.318	CC
Moser H34-22 - Wellbore #1 - Wellbore #1 - As Drilled	12,300.00	7,004.38	1,469.87	1,393.51	19.250	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 Hurley H35-787
Project:	Mustang	TVD Reference:	WELL @ 4851.00ft (Original Well Elev)
Reference Site:	H Section 26	MD Reference:	WELL @ 4851.00ft (Original Well Elev)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Hurley H35-787	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 #2	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						
H Section 34						
Moser H34-22 - Wellbore #1 - Wellbore #1 - As Drilled	12,500.00	7,003.79	1,486.93	1,408.82	19.035	SF
Moser H34-23 - Wellbore #1 - Wellbore #1 - As Drilled	13,717.01	7,020.81	1,565.41	1,478.76	18.066	CC, ES
Moser H34-23 - Wellbore #1 - Wellbore #1 - As Drilled	13,900.00	7,024.35	1,576.07	1,487.69	17.834	SF
Moser H34-31 - Wellbore #1 - Wellbore #1 - As Drilled	11,089.82	7,087.10	5,444.11	5,376.08	80.024	CC
Moser H34-31 - Wellbore #1 - Wellbore #1 - As Drilled	11,100.00	7,087.42	5,444.12	5,376.01	79.932	ES
Moser H34-31 - Wellbore #1 - Wellbore #1 - As Drilled	13,200.00	7,142.67	5,838.40	5,756.25	71.064	SF
Moser H35-32 - Wellbore #1 - Wellbore #1 - As Drilled	12,284.55	7,007.90	405.76	329.65	5.331	CC
Moser H35-32 - Wellbore #1 - Wellbore #1 - As Drilled	12,300.00	7,007.96	406.06	329.64	5.314	ES, SF
Moser H35-33 - Wellbore #1 - Wellbore #1 - As Drilled	13,779.91	7,017.74	335.22	248.21	3.853	CC, ES
Moser H35-33 - Wellbore #1 - Wellbore #1 - As Drilled	13,800.00	7,017.15	335.82	248.38	3.841	SF
Moser X 3-27 - Wellbore #1 - Wellbore #1 - As Drilled	14,964.06	6,928.26	1,609.93	1,513.67	16.725	CC, ES
Moser X 3-27 - Wellbore #1 - Wellbore #1 - As Drilled	15,029.39	6,932.43	1,611.24	1,514.29	16.619	SF
Moser X 3-28 - Wellbore #1 - Wellbore #1 - As Drilled	14,957.84	6,954.29	2,857.80	2,761.68	29.731	CC
Moser X 3-28 - Wellbore #1 - Wellbore #1 - As Drilled	15,000.00	6,956.95	2,858.11	2,761.58	29.608	ES
Moser X 3-28 - Wellbore #1 - Wellbore #1 - As Drilled	15,029.39	6,958.80	2,858.69	2,761.88	29.529	SF

Noble Energy, Inc.
Anticollision Summary Report

Company:	Northern Region - DJ Basin	Local Co-ordinate Reference:	Well Hurley H35-787
Project:	Mustang	TVD Reference:	WELL @ 4851.00ft (Original Well Elev)
Reference Site:	H Section 26	MD Reference:	WELL @ 4851.00ft (Original Well Elev)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Hurley H35-787	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 #2	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						
H Section 35						
Cannon Farms 01-35C - Original Drilling - Original Drilling	14,043.06	7,020.76	3,849.74	3,760.45	43.114	CC
Cannon Farms 01-35C - Original Drilling - Original Drilling	14,400.00	14,400.00	3,866.24	3,749.45	33.105	ES, SF
Cannon H35-03D - Original Drilling - Original Drilling - As	13,522.50	7,052.22	1,423.61	1,338.08	16.645	CC, ES
Cannon H35-03D - Original Drilling - Original Drilling - As	13,600.00	7,050.48	1,425.72	1,340.00	16.634	SF
Cannon H35-09 - Original Drilling - Original Drilling - As D	13,113.70	7,062.81	4,231.49	4,143.45	48.061	CC, ES
Cannon H35-09 - Original Drilling - Original Drilling - As D	13,800.00	7,047.99	4,286.76	4,195.52	46.980	SF
Cannon H35-10 - Original Drilling - Original Drilling - As D	13,220.66	6,973.50	2,990.60	2,907.87	36.145	CC, ES
Cannon H35-10 - Original Drilling - Original Drilling - As D	13,600.00	6,975.21	3,014.57	2,930.13	35.704	SF
Cannon H35-11 - Original Drilling - Original Drilling - As D	13,102.19	7,068.11	1,921.17	1,838.69	23.291	CC, ES
Cannon H35-11 - Original Drilling - Original Drilling - As D	13,200.00	7,069.21	1,923.66	1,840.80	23.216	SF
Cannon H35-12 - Original Drilling - Original Drilling - As D	13,200.00	7,002.58	456.29	373.57	5.516	ES, SF
Cannon H35-12 - Original Drilling - Original Drilling - As D	13,200.38	7,002.59	456.29	373.57	5.516	CC
Cannon H35-13 - Wellbore #1 - Wellbore #1 - As Drilled	14,392.03	7,008.48	391.39	299.67	4.267	CC, ES, SF
Cannon H35-14 - Original Drilling - Original Drilling - As D	14,429.04	7,020.79	1,784.66	1,685.62	18.020	CC, ES
Cannon H35-14 - Original Drilling - Original Drilling - As D	14,500.00	7,020.35	1,786.07	1,686.79	17.991	SF
Cannon H35-15 (PA) - Original Drilling - Original Drilling -	14,468.45	7,014.00	3,000.92	2,792.57	14.404	CC
Cannon H35-15 (PA) - Original Drilling - Original Drilling -	14,500.00	7,014.00	3,001.08	2,792.57	14.393	ES
Cannon H35-15 (PA) - Original Drilling - Original Drilling -	14,700.00	7,014.00	3,009.84	2,800.37	14.369	SF
Cannon H35-20 - Original Drilling - Original Drilling - As D	12,602.75	7,065.12	1,055.53	976.55	13.364	CC, ES, SF
Cannon H35-21 - Original Drilling - Original Drilling - As D	12,686.99	7,005.10	2,477.94	2,398.96	31.375	CC
Cannon H35-21 - Original Drilling - Original Drilling - As D	12,700.00	7,005.18	2,477.98	2,398.93	31.350	ES
Cannon H35-21 - Original Drilling - Original Drilling - As D	12,900.00	7,006.56	2,487.08	2,407.20	31.133	SF
Cannon H35-22 - Original Drilling - Original Drilling - As D	12,607.68	6,841.83	3,406.15	3,328.40	43.807	CC, ES
Cannon H35-22 - Original Drilling - Original Drilling - As D	13,200.00	6,841.19	3,457.27	3,376.80	42.968	SF
Cannon H35-24 - Original Drilling - Original Drilling - As D	13,874.52	7,083.28	2,269.43	2,181.11	25.695	CC, ES
Cannon H35-24 - Original Drilling - Original Drilling - As D	14,100.00	7,084.65	2,280.60	2,191.42	25.572	SF
Cannon X02-27 - Original Drilling - Original Drilling - As D	14,952.99	7,004.40	3,420.57	3,324.54	35.621	CC, ES
Cannon X02-27 - Original Drilling - Original Drilling - As D	15,029.39	7,004.55	3,421.42	3,324.96	35.469	SF
Cannon X02-28 - Original Drilling - Original Drilling - As D	14,718.39	7,056.31	2,236.68	2,142.12	23.653	CC, ES
Cannon X02-28 - Original Drilling - Original Drilling - As D	14,900.00	7,056.57	2,244.04	2,148.78	23.556	SF
Cannon X02-29 - Original Drilling - Original Drilling - As D	14,796.11	7,004.99	910.73	815.85	9.600	CC
Cannon X02-29 - Original Drilling - Original Drilling - As D	14,800.00	7,005.35	910.74	815.85	9.599	ES, SF
Foster 18-35 - Original Drilling - Original Drilling - As Drill	10,937.67	7,034.31	934.86	867.67	13.914	CC, ES, SF
Foster UPRR 31-35 #1 (PA) - Original Drilling - Original D	10,365.51	7,026.01	3,066.29	2,887.11	17.113	CC, ES
Foster UPRR 31-35 #1 (PA) - Original Drilling - Original D	10,600.00	7,026.01	3,075.24	2,895.04	17.065	SF
Foster UPRR 32-35 - Original Drilling - Original Drilling - A	11,698.71	7,015.95	2,930.57	2,858.55	40.689	CC
Foster UPRR 32-35 - Original Drilling - Original Drilling - A	11,700.00	7,015.95	2,930.57	2,858.54	40.685	ES
Foster UPRR 32-35 - Original Drilling - Original Drilling - A	12,100.00	7,020.59	2,957.91	2,884.14	40.093	SF
Foster UPRR 41-35 - Original Drilling - Original Drilling - A	10,590.38	7,005.19	4,393.48	4,319.35	59.261	CC
Foster UPRR 41-35 - Original Drilling - Original Drilling - A	10,600.00	7,005.25	4,393.49	4,319.31	59.220	ES
Foster UPRR 41-35 - Original Drilling - Original Drilling - A	11,600.00	7,010.75	4,507.99	4,429.02	57.082	SF
Foster UPRR 42-35 #2 - Original Drilling - Original Drilling	11,680.09	6,828.73	4,341.36	4,270.44	61.220	CC
Foster UPRR 42-35 #2 - Original Drilling - Original Drilling	11,700.00	6,828.90	4,341.40	4,270.37	61.123	ES
Foster UPRR 42-35 #2 - Original Drilling - Original Drilling	12,700.00	6,838.86	4,459.54	4,383.72	58.819	SF
HSR Foster 03-35 - Original Drilling - Original Drilling - As	10,577.66	6,991.83	1,824.65	1,760.28	28.345	CC, ES
HSR Foster 03-35 - Original Drilling - Original Drilling - As	10,700.00	6,988.27	1,828.74	1,764.01	28.250	SF
HSR Foster 04-35 - Wellbore #1 - Wellbore #1 - As Drille	10,265.49	7,005.92	150.71	87.76	2.394	CC, ES, SF
HSR Foster 05-35 - Wellbore #1 - Wellbore #1 - As Drille	11,862.46	7,026.19	354.75	281.15	4.820	CC, ES, SF
HSR Foster 06-35 - Original Drilling - Original Drilling - As	11,757.88	7,033.09	1,730.62	1,658.06	23.852	CC, ES
HSR Foster 06-35 - Original Drilling - Original Drilling - As	11,900.00	7,034.58	1,736.44	1,663.45	23.790	SF
UPRR 53 Pan Am Unit P1 - Original Drilling - Original Dri	11,174.46	7,031.29	3,835.96	3,767.42	55.968	CC
UPRR 53 Pan Am Unit P1 - Original Drilling - Original Dri	11,200.00	7,031.21	3,836.05	3,767.37	55.860	ES
UPRR 53 Pan Am Unit P1 - Original Drilling - Original Dri	12,000.00	7,028.39	3,923.79	3,851.52	54.300	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 Hurley H35-787
Project:	Mustang	TVD Reference:	WELL @ 4851.00ft (Original Well Elev)
Reference Site:	H Section 26	MD Reference:	WELL @ 4851.00ft (Original Well Elev)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Hurley H35-787	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 #2	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						
H Section 35						
UPRR 53 Pan Am UT P2 - Original Drilling - Original Drill	10,794.36	7,068.26	1,355.01	1,288.60	20.406	CC
UPRR 53 Pan Am UT P2 - Original Drilling - Original Drill	10,800.00	7,068.18	1,355.02	1,288.60	20.401	ES, SF

Noble Energy, Inc.
Anticollision Summary Report

Company:	Northern Region - DJ Basin	Local Co-ordinate Reference:	Well Hurley H35-787
Project:	Mustang	TVD Reference:	WELL @ 4851.00ft (Original Well Elev)
Reference Site:	H Section 26	MD Reference:	WELL @ 4851.00ft (Original Well Elev)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Hurley H35-787	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 #2	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						
H Section 36						
Dechant 07-36 - Original Drilling - Original Drilling - As Dr	12,089.83	6,835.88	8,020.00	7,946.00	108.377	CC
Dechant 07-36 - Original Drilling - Original Drilling - As Dr	12,100.00	6,835.92	8,020.01	7,945.94	108.282	ES
Dechant 07-36 - Original Drilling - Original Drilling - As Dr	15,029.39	6,847.87	8,541.74	8,451.58	94.747	SF
Dechant 13N-1HZ - Production Hole - Production Hole - A	15,029.39	6,971.90	5,441.97	5,346.19	56.818	CC, ES, SF
Dechant 13N-1HZ - Surface Hole - Surface Hole - As Dril	14,936.84	600.00	8,942.88	8,876.49	134.701	CC
Dechant 13N-1HZ - Surface Hole - Surface Hole - As Dril	15,000.00	600.00	8,943.10	8,876.27	133.806	ES
Dechant 13N-1HZ - Surface Hole - Surface Hole - As Dril	15,029.39	600.00	8,943.36	8,876.32	133.398	SF
Dechant 14C-1HZ - Production Hole - Production Hole - A	15,029.39	6,911.00	6,789.89	6,695.79	72.152	CC, ES, SF
Dechant 14C-1HZ - Surface Hole - Surface Hole - As Dril	14,940.78	610.00	9,000.02	8,933.53	135.372	CC
Dechant 14C-1HZ - Surface Hole - Surface Hole - As Dril	15,000.00	610.00	9,000.21	8,933.31	134.529	ES
Dechant 14C-1HZ - Surface Hole - Surface Hole - As Dril	15,029.39	610.00	9,000.45	8,933.34	134.119	SF
Dechant 15-36 - Original Drilling - Original Drilling - As Dr	14,543.48	6,951.62	8,003.30	7,893.49	72.883	CC
Dechant 15-36 - Original Drilling - Original Drilling - As Dr	14,600.00	6,951.86	8,003.50	7,893.30	72.625	ES
Dechant 15-36 - Original Drilling - Original Drilling - As Dr	15,029.39	6,953.71	8,018.04	7,904.93	70.889	SF
Dechant 24-36 - Original Drilling - Original Drilling - As Dr	12,427.45	7,131.73	8,709.00	8,629.10	108.999	CC
Dechant 24-36 - Original Drilling - Original Drilling - As Dr	12,500.00	7,131.76	8,709.30	8,628.85	108.262	ES
Dechant 24-36 - Original Drilling - Original Drilling - As Dr	15,029.39	7,132.71	9,089.37	8,991.53	92.895	SF
Dechant 35N-E1HZ - Production Hole - Production Hole -	15,029.39	15,029.39	6,509.41	6,370.96	47.017	CC, ES, SF
Dechant 35N-E1HZ - Surface Hole - Surface Hole - As D	14,939.62	612.00	8,979.77	8,913.31	135.107	CC
Dechant 35N-E1HZ - Surface Hole - Surface Hole - As D	15,000.00	612.00	8,979.98	8,913.09	134.249	ES
Dechant 35N-E1HZ - Surface Hole - Surface Hole - As D	15,029.39	612.00	8,980.22	8,913.13	133.840	SF
Dechant 35N-W1HZ - Original Drilling - Original Drilling -	15,029.39	6,886.00	6,076.18	5,981.94	64.476	CC, ES, SF
Dechant 36N-W1HZ - Original Drilling - Original Drilling -	14,941.94	6,059.68	7,130.02	7,037.62	77.164	CC
Dechant 36N-W1HZ - Original Drilling - Original Drilling -	15,000.00	6,059.72	7,130.26	7,037.46	76.838	ES
Dechant 36N-W1HZ - Original Drilling - Original Drilling -	15,029.39	6,059.74	7,130.56	7,037.56	76.677	SF
Dechant 37N-E1HZ - Production Hole - Production Hole -	15,022.76	4,368.96	9,097.45	9,013.05	107.791	CC
Dechant 37N-E1HZ - Production Hole - Production Hole -	15,029.39	4,369.04	9,097.45	9,013.00	107.729	ES, SF
Dechant 37N-E1HZ - Surface Hole - Surface Hole - As D	14,915.76	648.00	9,941.49	9,874.42	148.231	CC
Dechant 37N-E1HZ - Surface Hole - Surface Hole - As D	15,000.00	648.00	9,941.84	9,874.18	146.929	ES
Dechant 37N-E1HZ - Surface Hole - Surface Hole - As D	15,029.39	648.00	9,942.14	9,874.26	146.485	SF
Dechant 37N-W1HZ - Production Hole - Production Hole	14,874.98	7,339.00	8,527.89	8,432.55	89.443	CC
Dechant 37N-W1HZ - Production Hole - Production Hole	15,029.39	7,445.35	8,528.89	8,432.03	88.058	ES, SF
Dechant 37N-W1HZ - Surface Hole - Surface Hole - As D	14,934.09	655.00	9,954.05	9,886.81	148.037	CC
Dechant 37N-W1HZ - Surface Hole - Surface Hole - As D	15,000.00	655.00	9,954.27	9,886.56	147.018	ES
Dechant 37N-W1HZ - Surface Hole - Surface Hole - As D	15,029.39	655.00	9,954.51	9,886.59	146.573	SF
Dechant State 15C-1HZ - Wellbore #1 - As Drilled	100.00	81.82	7,683.33	7,683.01	10,000.000	CC
Dechant State 15C-1HZ - Wellbore #1 - As Drilled	2,252.38	2,351.51	7,684.97	7,670.89	546.033	ES
Dechant State 15C-1HZ - Wellbore #1 - As Drilled	13,400.00	13,400.00	8,179.70	8,046.51	61.414	SF
Dechant State 16C-1HZ - Original Drilling - Original Drillin	2,499.98	3,308.83	9,059.65	9,039.05	439.656	CC
Dechant State 16C-1HZ - Original Drilling - Original Drillin	2,500.00	3,308.84	9,059.65	9,039.05	439.653	ES
Dechant State 16C-1HZ - Original Drilling - Original Drillin	15,029.39	12,719.53	9,340.17	9,162.92	52.694	SF
Dechant State 36N-E1HZ - Wellbore #1 - Wellbore #1	2,250.18	2,343.47	7,662.47	7,648.52	548.985	CC, ES
Dechant State 36N-E1HZ - Wellbore #1 - Wellbore #1	15,029.39	11,364.00	7,798.18	7,670.61	61.130	SF
Dechant State 37N-E36HZ - Wellbore #1 - As Drilled	2,730.60	4,185.00	8,982.10	8,959.55	398.327	CC, ES
Dechant State 37N-E36HZ - Wellbore #1 - As Drilled	13,700.00	13,700.00	9,133.83	8,994.46	65.533	SF
Dechant State 37N-W36HZ - Wellbore #1 - As Drilled	678.33	660.35	7,698.70	7,694.48	1,827.927	CC
Dechant State 37N-W36HZ - Wellbore #1 - As Drilled	900.00	873.42	7,699.37	7,694.10	1,459.258	ES
Dechant State 37N-W36HZ - Wellbore #1 - As Drilled	15,029.39	11,490.00	8,605.97	8,477.36	66.919	SF
Dechant State 38N-1HZ - Wellbore #1 - As Drilled	538.74	507.75	9,377.75	9,374.48	2,868.028	CC
Dechant State 38N-1HZ - Wellbore #1 - As Drilled	1,000.00	931.14	9,378.64	9,372.89	1,629.540	ES
Dechant State 38N-1HZ - Wellbore #1 - As Drilled	14,500.00	14,500.00	9,871.95	9,716.46	63.491	SF
Dechant State H36-11D - Original Drilling - Original Drillin	13,277.37	6,900.01	6,850.44	6,767.52	82.616	CC
Dechant State H36-11D - Original Drilling - Original Drillin	13,300.00	6,900.01	6,850.48	6,767.41	82.469	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 Hurley H35-787
Project:	Mustang	TVD Reference:	WELL @ 4851.00ft (Original Well Elev)
Reference Site:	H Section 26	MD Reference:	WELL @ 4851.00ft (Original Well Elev)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Hurley H35-787	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 #2	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
H Section 36						
Dechant State H36-11D - Original Drilling - Original Drilling	15,029.39	6,900.01	7,070.93	6,978.17	76.223	SF
Dechant State H36-18D - Dechant State H36-18D Gyros	100.00	61.42	6,596.40	6,596.17	10,000.000	CC
Dechant State H36-18D - Dechant State H36-18D Gyros	1,000.00	900.00	6,599.44	6,593.12	1,043.203	ES
Dechant State H36-18D - Dechant State H36-18D Gyros	13,600.00	13,600.00	7,784.04	7,671.31	69.054	SF
Dechant State H36-18D - Dechant State H36-18D OH - A	100.00	74.17	6,596.41	6,596.17	10,000.000	CC
Dechant State H36-18D - Dechant State H36-18D OH - A	1,000.00	913.00	6,599.45	6,593.12	1,043.204	ES
Dechant State H36-18D - Dechant State H36-18D OH - A	13,600.00	13,600.00	7,784.09	7,671.40	69.076	SF
Dechant State H36-19 - Original Drilling - Original Drilling	10,880.52	7,300.00	6,017.66	5,949.82	88.702	CC
Dechant State H36-19 - Original Drilling - Original Drilling	10,900.00	7,300.00	6,017.69	5,949.74	88.558	ES
Dechant State H36-19 - Original Drilling - Original Drilling	12,900.00	7,326.04	6,347.40	6,269.33	81.313	SF
Dechant State H36-20D - Dechant State H36-20D Gyros	12,667.88	7,400.00	6,213.70	6,129.36	73.673	CC
Dechant State H36-20D - Dechant State H36-20D Gyros	12,700.00	7,400.00	6,213.78	6,129.32	73.571	ES
Dechant State H36-20D - Dechant State H36-20D Gyros	14,100.00	7,437.96	6,376.08	6,286.75	71.376	SF
Dechant State H36-20D - Dechant State H36-20D OH - A	12,667.90	7,413.00	6,213.70	6,129.36	73.673	CC
Dechant State H36-20D - Dechant State H36-20D OH - A	12,700.00	7,413.00	6,213.79	6,129.33	73.570	ES
Dechant State H36-20D - Dechant State H36-20D OH - A	14,100.00	7,450.96	6,376.08	6,286.75	71.375	SF
Dechant State H36-21D - Dechant State H36-21D Gyros	12,652.81	7,046.26	7,433.20	7,348.36	87.610	CC
Dechant State H36-21D - Dechant State H36-21D Gyros	12,700.00	7,046.17	7,433.35	7,348.28	87.372	ES
Dechant State H36-21D - Dechant State H36-21D Gyros	14,800.00	7,040.75	7,737.11	7,643.35	82.517	SF
Dechant State H36-21D - Dechant State H36-21D OH - A	12,652.82	7,059.26	7,433.18	7,348.33	87.610	CC
Dechant State H36-21D - Dechant State H36-21D OH - A	12,700.00	7,059.17	7,433.33	7,348.25	87.371	ES
Dechant State H36-21D - Dechant State H36-21D OH - A	14,800.00	7,053.75	7,737.09	7,643.32	82.516	SF
Dechant State H36-24 - Original Drilling - Original Drilling	13,850.53	7,220.51	7,492.32	7,402.76	83.661	CC
Dechant State H36-24 - Original Drilling - Original Drilling	13,900.00	7,219.76	7,492.48	7,402.59	83.349	ES
Dechant State H36-24 - Original Drilling - Original Drilling	15,029.39	7,202.63	7,584.48	7,487.33	78.074	SF
Dechant State H36-31D - Dechant State H36-31D OH - A	11,233.66	7,094.26	5,018.12	4,949.02	72.623	CC, ES
Dechant State H36-31D - Dechant State H36-31D OH - A	12,600.00	7,105.32	5,200.80	5,125.50	69.066	SF
Dechant State H36-32D - Dechant State H36-32D Gyros	12,477.29	6,950.00	4,998.97	4,915.92	60.196	CC
Dechant State H36-32D - Dechant State H36-32D Gyros	12,500.00	6,950.00	4,999.02	4,915.80	60.075	ES
Dechant State H36-32D - Dechant State H36-32D Gyros	13,800.00	6,950.00	5,171.00	5,079.96	56.803	SF
Dechant State H36-32D - Dechant State H36-32D OH - A	12,479.38	7,084.41	4,996.51	4,913.11	59.909	CC
Dechant State H36-32D - Dechant State H36-32D OH - A	12,500.00	7,084.64	4,996.55	4,913.00	59.799	ES
Dechant State H36-32D - Dechant State H36-32D OH - A	13,800.00	7,099.48	5,168.05	5,076.65	56.544	SF
Dechant State H36-33 - Dechant State H36-33D Gyros	13,694.76	7,444.69	5,032.80	4,944.37	56.913	CC
Dechant State H36-33 - Dechant State H36-33D Gyros	13,700.00	7,444.71	5,032.80	4,944.33	56.886	ES
Dechant State H36-33 - Dechant State H36-33D Gyros	15,029.39	7,448.95	5,206.75	5,106.18	51.773	SF
Dechant State H36-33 - Dechant State H36-33D OH - As	13,694.79	7,457.69	5,032.81	4,944.38	56.913	CC
Dechant State H36-33 - Dechant State H36-33D OH - As	13,700.00	7,457.71	5,032.81	4,944.34	56.886	ES
Dechant State H36-33 - Dechant State H36-33D OH - As	15,029.39	7,461.95	5,206.75	5,106.18	51.774	SF
HSR Dechant State 01-36 - Wellbore #1 - As Drilled	2,256.47	2,379.87	9,414.86	9,398.87	588.814	CC, ES
HSR Dechant State 01-36 - Wellbore #1 - As Drilled	12,800.00	6,890.74	9,995.03	9,918.21	130.114	SF
HSR Dechant State 02-36 - Original Drilling - Original Dri	2,406.28	2,823.52	7,819.42	7,801.37	433.185	CC, ES
HSR Dechant State 02-36 - Original Drilling - Original Dri	14,100.00	6,927.88	8,820.16	8,738.48	107.980	SF
HSR Dechant/State 07-36 (PA) - Original Drilling - Origina	11,530.89	6,979.00	8,561.39	8,375.26	45.996	CC
HSR Dechant/State 07-36 (PA) - Original Drilling - Origina	11,600.00	6,979.00	8,561.67	8,375.10	45.891	ES
HSR Dechant/State 07-36 (PA) - Original Drilling - Origina	13,600.00	6,979.00	8,807.87	8,609.55	44.413	SF
Spike State GWS H36-03 - Original Drilling - Original Dril	10,486.41	7,061.69	7,057.03	6,992.79	109.849	CC
Spike State GWS H36-03 - Original Drilling - Original Dril	10,500.00	7,062.34	7,057.05	6,992.72	109.714	ES
Spike State GWS H36-03 - Original Drilling - Original Dril	13,500.00	7,206.95	7,672.18	7,592.27	96.017	SF
Spike State GWS H36-04 - Original Drilling - Original Dril	10,316.40	7,103.82	5,555.03	5,482.50	76.585	CC, ES
Spike State GWS H36-04 - Original Drilling - Original Dril	12,000.00	7,091.40	5,804.54	5,724.02	72.087	SF
Spike State GWS H36-13 - Original Drilling - Original Dril	14,644.67	6,600.01	5,423.81	5,332.17	59.184	CC
Spike State GWS H36-13 - Original Drilling - Original Dril	14,700.00	6,600.01	5,424.09	5,332.09	58.958	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 Hurley H35-787
Project:	Mustang	TVD Reference:	WELL @ 4851.00ft (Original Well Elev)
Reference Site:	H Section 26	MD Reference:	WELL @ 4851.00ft (Original Well Elev)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Hurley H35-787	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 #2	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						
H Section 36						
Spike State GWS H36-13 - Original Drilling - Original Dril	15,029.39	6,600.01	5,437.44	5,343.44	57.846	SF
Spike State GWS H36-14 - Original Drilling - Original Dril	13,200.00	13,200.00	7,247.86	7,143.13	69.209	SF
Spike State GWS H36-14 - Original Drilling - Original Dril	14,638.24	6,874.83	7,104.02	7,010.94	76.317	CC
Spike State GWS H36-14 - Original Drilling - Original Dril	14,700.00	6,873.20	7,104.29	7,010.80	75.985	ES
Spike State H36-02J - Original Drilling - Original Drilling -	11,542.90	6,917.35	6,500.55	6,398.27	63.558	CC
Spike State H36-02J - Original Drilling - Original Drilling -	11,600.00	6,918.34	6,500.80	6,398.15	63.327	ES
Spike State H36-02J - Original Drilling - Original Drilling -	13,500.00	6,951.18	6,788.69	6,674.91	59.666	SF
Spike State H36-05 - Original Drilling - Original Drilling - A	11,717.46	7,194.61	5,489.75	5,416.71	75.161	CC, ES
Spike State H36-05 - Original Drilling - Original Drilling - A	13,300.00	7,189.36	5,713.30	5,632.29	70.528	SF
Spike State H36-11J - Original Drilling - Original Drilling -	13,879.33	6,951.18	6,258.57	6,170.93	71.417	CC
Spike State H36-11J - Original Drilling - Original Drilling -	13,900.00	6,950.77	6,258.60	6,170.83	71.308	ES
Spike State H36-11J - Original Drilling - Original Drilling -	15,029.39	6,926.95	6,363.32	6,269.15	67.573	SF
Spike State H36-12 - Original Drilling - Original Drilling - A	12,986.26	7,000.38	5,379.51	5,298.30	66.243	CC
Spike State H36-12 - Original Drilling - Original Drilling - A	13,000.00	7,000.27	5,379.53	5,298.23	66.173	ES
Spike State H36-12 - Original Drilling - Original Drilling - A	14,300.00	6,988.96	5,537.59	5,449.60	62.932	SF
X Section 01						
Dechant USX X1-6 - Wellbore #1 - As Drilled	15,029.39	6,743.32	6,872.99	6,777.92	72.295	CC, ES, SF
Dechant USX X1-7 - Wellbore #1 - As Drilled	15,029.39	6,800.00	8,096.68	8,001.84	85.368	CC, ES, SF
Dechant X01-02 - Wellbore #1 - As Drilled	15,029.39	7,160.97	8,115.39	8,017.75	83.117	CC, ES, SF
Dechant X01-03 - Wellbore #1 - Wellbore #1	15,029.39	6,803.91	6,966.58	6,870.57	72.563	CC, ES, SF
Dechant X01-04 - Wellbore #1 - As Drilled	15,029.39	7,022.61	5,635.25	5,538.20	58.065	CC, ES, SF
Dechant X01-06 - Wellbore #1 - As Drilled	15,029.39	6,979.54	7,449.31	7,353.76	77.956	CC, ES, SF
Dechant X12-01 - Wellbore #1 - As Drilled	15,029.39	6,652.29	5,765.56	5,672.31	61.823	CC, ES, SF
X Section 02						
Greenleaf 1C-2HZ - Original Hole - As-Drilled	15,029.39	12,178.00	4,505.87	4,349.87	28.884	CC, ES, SF
Greenleaf 1N-2HZ - Original Hole - As-Drilled	15,029.39	11,854.00	3,920.17	3,765.47	25.339	CC, ES, SF
Greenleaf 26N-2HZ - Original Hole - As-Drilled	15,029.39	11,967.00	4,744.49	4,589.08	30.528	CC, ES, SF
Greenleaf 27N-2HZ - Original Hole - As-Drilled	15,029.39	11,754.00	3,153.01	3,000.10	20.619	CC, ES, SF
Greenleaf 28C-2HZ - Original Hole - Original Hole	15,029.39	12,005.00	2,418.14	2,268.76	16.187	CC, ES, SF
Greenleaf 29C-2HZ - Original Hole - Original Hole	15,029.39	12,733.00	1,316.09	1,167.81	8.876	CC, ES, SF
Greenleaf 29N-2HZ - Original Hole - Original Hole	15,029.39	12,533.00	1,107.59	968.04	7.937	CC, ES, SF
Greenleaf 2N-2HZ - Original Hole - Original Hole	15,029.39	12,018.00	2,559.47	2,408.46	16.949	CC, ES, SF
Greenleaf 30N-2HZ - Original Hole - Original Hole	15,029.39	11,541.00	651.78	572.33	8.204	CC, ES, SF
Greenleaf 3N-2HZR - Original Hole - Original Hole	15,029.39	12,432.00	1,994.99	1,838.39	12.739	CC, ES, SF
Greenleaf 4N-2HZ - Original Hole - Original Hole	15,029.39	12,764.00	870.78	747.81	7.081	CC, ES, SF
Harkis 11-02 - Original Drilling - Original Drilling - As Drille	15,029.39	7,024.57	643.21	578.45	9.932	CC, ES, SF
Harkis 31-2 - Original Hole - As-Drilled	15,029.39	6,995.69	3,029.17	2,932.62	31.375	CC, ES, SF
Pioneer 1-2 - Original Hole - As-Drilled	15,029.39	7,314.84	4,419.70	4,284.49	32.687	CC, ES, SF
Pioneer 3-2 - Original Hole - Original Hole	15,029.39	7,295.35	1,809.11	1,677.61	13.758	CC, ES, SF
Pioneer 3-2 - Surface Gyros - Surface Gyros	15,029.39	7,278.35	1,809.06	1,674.76	13.470	CC, ES, SF

Noble Energy, Inc.
Anticollision Summary Report

Company:	Northern Region - DJ Basin	Local Co-ordinate Reference:	Well Hurley H35-787
Project:	Mustang	TVD Reference:	WELL @ 4851.00ft (Original Well Elev)
Reference Site:	H Section 26	MD Reference:	WELL @ 4851.00ft (Original Well Elev)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Hurley H35-787	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 #2	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						
X Section 03						
Brown 3-3A - Wellbore #1 - Wellbore #1 - As Drilled	15,029.39	7,088.57	3,362.72	3,267.62	35.359	CC, ES, SF
Cannon 1-3 - Wellbore #1 - Wellbore #1 - As Drilled	15,029.39	6,988.88	915.29	833.91	11.248	CC, ES, SF
Cannon 13C-3HZ - Wellbore #1 - Wellbore #1 - As Drilled	15,029.39	6,853.00	4,818.82	4,724.83	51.274	CC, ES, SF
Cannon 13N-3HZ - Wellbore #1 - Wellbore #1 - As Drilled	15,029.39	6,947.00	5,044.98	4,950.89	53.621	CC, ES, SF
Cannon 14N-E3HZ - Wellbore #1 - Wellbore #1 - As Drilled	15,029.39	15,029.39	3,725.03	3,597.05	29.106	CC, ES, SF
Cannon 14N-W3HZ - Wellbore #1 - Wellbore #1 - As Drill	15,029.39	6,664.00	4,376.63	4,283.77	47.132	CC, ES, SF
Cannon 15N-W3HZ - Wellbore #1 - Wellbore #1 - As Drill	15,029.39	7,170.06	2,043.23	1,950.72	22.085	CC, ES, SF
Cannon 16N-E3HZ - Wellbore #1 - Wellbore #1 - As Drille	15,029.39	6,797.32	1,029.61	939.79	11.463	CC, ES, SF
Cannon 26-3 - Wellbore #1 - Wellbore #1 - As Drilled	15,029.39	7,479.78	364.92	260.71	3.502	CC, ES, SF
Cannon 36N-E3HZ - Wellbore #1 - Wellbore #1 - As Drille	15,029.39	6,808.00	2,671.40	2,578.10	28.633	CC, ES, SF
Cannon 36N-W3HZX - Original Hole - Original Hole	15,029.39	6,336.00	3,226.65	3,133.11	34.497	CC, ES, SF
Cannon 36N-W3HZX - Sidetrack 01 - Sidetrack 01	15,029.39	6,336.00	3,226.65	3,133.11	34.497	CC, ES, SF
Cannon 37C-3HZ - Wellbore #1 - Wellbore #1 - As Drilled	15,029.39	6,901.42	641.01	553.40	7.316	CC, ES, SF
Cannon 37N-E3HZ - Wellbore #1 - Wellbore #1 - As Drille	15,029.39	6,786.00	1,342.23	1,248.40	14.305	CC, ES, SF