

Noble Energy (Rockies)

Garfield County, CO (NAD 83)

Sec. 35-T7S-R95W (BM 35C PAD)

BM 35-31D

Sperry Drilling Services

Standard Proposal Report

13 February, 2010



HALLIBURTON

Sperry Drilling Services

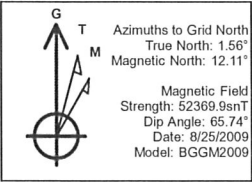
Project: Garfield County, CO (NAD 83)
Site: Sec. 35-T7S-R95W (BM 35C PAD)
Well: BM 35-31D
Wellbore: BM 35-31D
Plan: BM 35-31D Proposal 2.0

Noble Energy (Rockies)

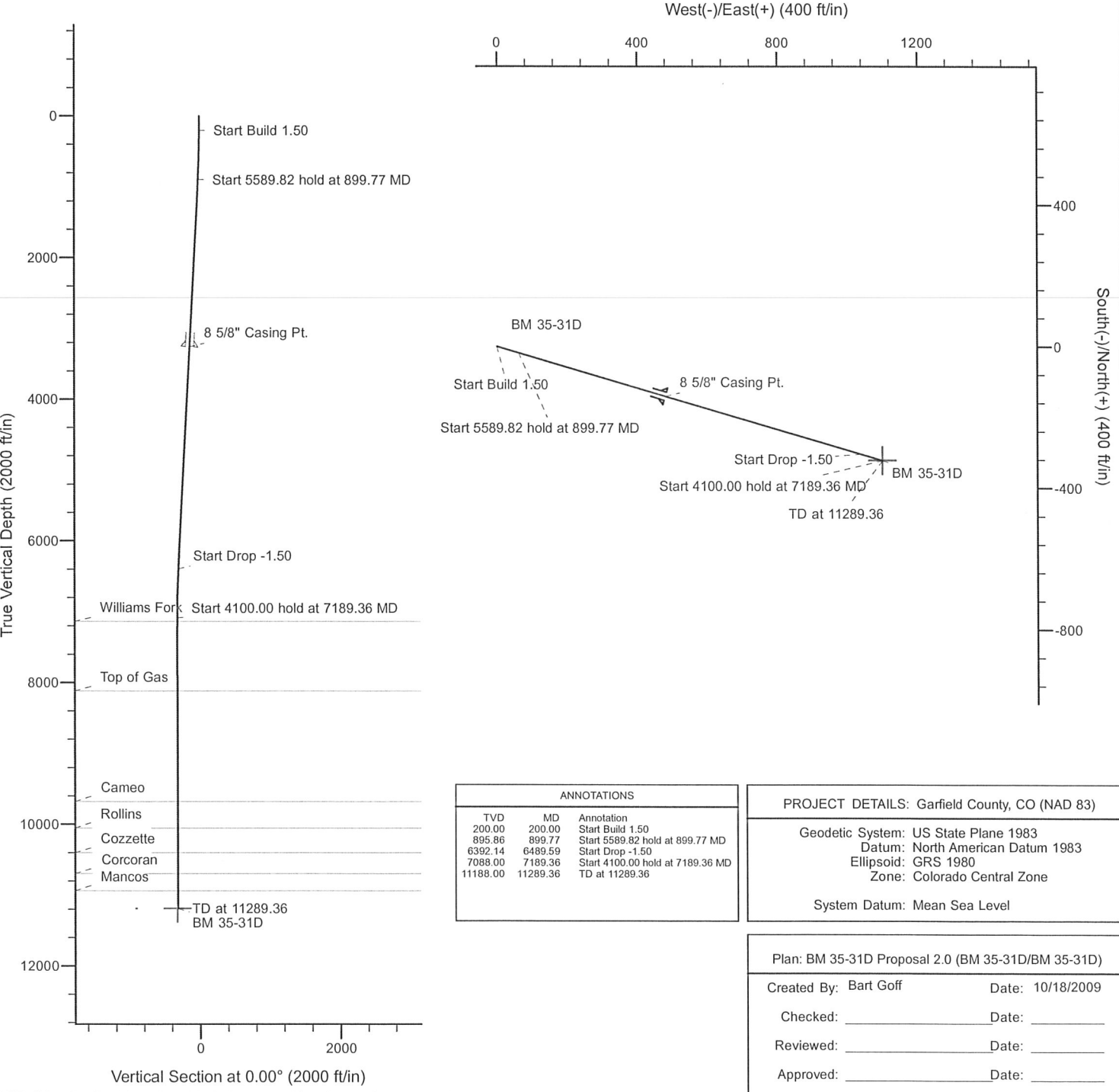
SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	
899.77	10.50	106.34	895.86	-17.99	61.34	1.50	106.34	-17.99	
6489.59	10.50	106.34	6392.14	-304.53	1038.52	0.00	0.00	-304.53	
7189.36	0.00	2.43	7088.00	-322.52	1099.86	1.50	180.00	-322.52	
11289.36	0.00	2.43	11188.00	-322.52	1099.86	0.00	2.43	-322.52	BM 35-31D

WELLBORE TARGET DETAILS				
Name	TVD	+N/-S	+E/-W	Shape
BM 35-31D	11188.00	-322.52	1099.86	Polygon

WELL DETAILS: BM 35-31D			
Ground Level:	9233.00	Latitude	Longitude
Northing	1579650.80	Easting	2303069.00
		39° 23' 56.134 N	107° 57' 59.517 W



FORMATION TOP DETAILS		
TVDPATH	MDPATH	Formation
7136.00	7237.36	Williams Fork
8119.00	8219.36	Top of Gas
9679.00	9780.36	Cameo
10052.00	10153.36	Rollins
10400.00	10501.36	Cozzette
10697.00	10798.36	Corcoran
10938.00	11039.36	Mancos



Sperry Drilling

Definitive Survey Report

Company: Noble Energy (Rockies)	Local Co-ordinate Reference: Well BM 35-31D
Project: Garfield County, CO (NAD 83)	TVD Reference: RKB - 24' @ 9257.00ft
Site: Sec. 35-T7S-R95W (BM 35C PAD)	MD Reference: RKB - 24' @ 9257.00ft
Well: BM 35-31D	North Reference: Grid
Wellbore: BM 35-31D	Survey Calculation Method: Minimum Curvature
Design: BM 35-31D Proposal 2.0	Database: .Sperry EDM .16 PRD

Project	Garfield County, CO (NAD 83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Central Zone		Using geodetic scale factor

Well	BM 35-31D				
Well Position	+N/-S	0.00 ft	Northing:	1,579,650.80 ft	Latitude: 39° 23' 56.134 N
	+E/-W	0.00 ft	Easting:	2,303,069.00 ft	Longitude: 107° 57' 59.517 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	9,257.00 ft	Ground Level: 9,233.00 ft

Wellbore	BM 35-31D				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2009	8/25/2009	10.56	65.74	52,370

Design	BM 35-31D Proposal 2.0			
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	0.00

Survey Tool Program	Date	2/13/2010			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	Survey Start Date
0.00	11,289.36	BM 35-31D Proposal 2.0 (BM 35-31D)	MWD	MWD - Standard	01/24/2010

Planned Survey											
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	DLS (°/100')	Vertical Section (ft)	Survey Tool Name
0.00	0.00	0.00	0.00	-9,257.00	0.00	0.00	1,579,650.80	2,303,069.00	0.00	0.00	UNDEFINED
100.00	0.00	0.00	100.00	-9,157.00	0.00	0.00	1,579,650.80	2,303,069.00	0.00	0.00	MWD (1)
200.00	0.00	0.00	200.00	-9,057.00	0.00	0.00	1,579,650.80	2,303,069.00	0.00	0.00	MWD (1)
Start Build 1.50											
300.00	1.50	106.34	299.99	-8,957.01	-0.37	1.26	1,579,650.43	2,303,070.26	1.50	-0.37	MWD (1)
400.00	3.00	106.34	399.91	-8,857.09	-1.47	5.02	1,579,649.33	2,303,074.02	1.50	-1.47	MWD (1)
500.00	4.50	106.34	499.69	-8,757.31	-3.31	11.30	1,579,647.49	2,303,080.30	1.50	-3.31	MWD (1)
600.00	6.00	106.34	599.27	-8,657.73	-5.89	20.08	1,579,644.91	2,303,089.08	1.50	-5.89	MWD (1)
700.00	7.50	106.34	698.57	-8,558.43	-9.20	31.36	1,579,641.61	2,303,100.36	1.50	-9.20	MWD (1)
800.00	9.00	106.34	797.54	-8,459.46	-13.23	45.13	1,579,637.57	2,303,114.12	1.50	-13.23	MWD (1)
899.77	10.50	106.34	895.86	-8,361.14	-17.99	61.34	1,579,632.81	2,303,130.33	1.50	-17.99	MWD (1)
Start 5589.82 hold at 899.77 MD											
900.00	10.50	106.34	896.09	-8,360.91	-18.00	61.38	1,579,632.80	2,303,130.37	0.00	-18.00	MWD (1)
1,000.00	10.50	106.34	994.42	-8,262.58	-23.12	78.86	1,579,627.68	2,303,147.85	0.00	-23.12	MWD (1)

Sperry Drilling

Definitive Survey Report

Company: Noble Energy (Rockies)
Project: Garfield County, CO (NAD 83)
Site: Sec. 35-T7S-R95W (BM 35C PAD)
Well: BM 35-31D
Wellbore: BM 35-31D
Design: BM 35-31D Proposal 2.0

Local Co-ordinate Reference: Well BM 35-31D
TVD Reference: RKB - 24' @ 9257.00ft
MD Reference: RKB - 24' @ 9257.00ft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: .Sperry EDM .16 PRD

Planned Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	DLS (°/100')	Vertical Section (ft)	Survey Tool Name
1,100.00	10.50	106.34	1,092.74	-8,164.26	-28.25	96.34	1,579,622.55	2,303,165.34	0.00	-28.25	MWD (1)
1,200.00	10.50	106.34	1,191.07	-8,065.93	-33.38	113.82	1,579,617.43	2,303,182.82	0.00	-33.38	MWD (1)
1,300.00	10.50	106.34	1,289.39	-7,967.61	-38.50	131.30	1,579,612.30	2,303,200.30	0.00	-38.50	MWD (1)
1,400.00	10.50	106.34	1,387.72	-7,869.28	-43.63	148.78	1,579,607.17	2,303,217.78	0.00	-43.63	MWD (1)
1,500.00	10.50	106.34	1,486.05	-7,770.95	-48.76	166.27	1,579,602.05	2,303,235.26	0.00	-48.76	MWD (1)
1,600.00	10.50	106.34	1,584.37	-7,672.63	-53.88	183.75	1,579,596.92	2,303,252.74	0.00	-53.88	MWD (1)
1,700.00	10.50	106.34	1,682.70	-7,574.30	-59.01	201.23	1,579,591.80	2,303,270.22	0.00	-59.01	MWD (1)
1,800.00	10.50	106.34	1,781.03	-7,475.97	-64.13	218.71	1,579,586.67	2,303,287.70	0.00	-64.13	MWD (1)
1,900.00	10.50	106.34	1,879.35	-7,377.65	-69.26	236.19	1,579,581.54	2,303,305.18	0.00	-69.26	MWD (1)
2,000.00	10.50	106.34	1,977.68	-7,279.32	-74.39	253.67	1,579,576.42	2,303,322.66	0.00	-74.39	MWD (1)
2,100.00	10.50	106.34	2,076.01	-7,180.99	-79.51	271.15	1,579,571.29	2,303,340.14	0.00	-79.51	MWD (1)
2,200.00	10.50	106.34	2,174.33	-7,082.67	-84.64	288.64	1,579,566.17	2,303,357.62	0.00	-84.64	MWD (1)
2,300.00	10.50	106.34	2,272.66	-6,984.34	-89.76	306.12	1,579,561.04	2,303,375.10	0.00	-89.76	MWD (1)
2,400.00	10.50	106.34	2,370.99	-6,886.01	-94.89	323.60	1,579,555.91	2,303,392.58	0.00	-94.89	MWD (1)
2,500.00	10.50	106.34	2,469.31	-6,787.69	-100.02	341.08	1,579,550.79	2,303,410.06	0.00	-100.02	MWD (1)
2,600.00	10.50	106.34	2,567.64	-6,689.36	-105.14	358.56	1,579,545.66	2,303,427.54	0.00	-105.14	MWD (1)
2,700.00	10.50	106.34	2,665.97	-6,591.03	-110.27	376.04	1,579,540.54	2,303,445.02	0.00	-110.27	MWD (1)
2,800.00	10.50	106.34	2,764.29	-6,492.71	-115.40	393.53	1,579,535.41	2,303,462.51	0.00	-115.40	MWD (1)
2,900.00	10.50	106.34	2,862.62	-6,394.38	-120.52	411.01	1,579,530.28	2,303,479.99	0.00	-120.52	MWD (1)
3,000.00	10.50	106.34	2,960.95	-6,296.05	-125.65	428.49	1,579,525.16	2,303,497.47	0.00	-125.65	MWD (1)
3,100.00	10.50	106.34	3,059.27	-6,197.73	-130.77	445.97	1,579,520.03	2,303,514.95	0.00	-130.77	MWD (1)
3,200.00	10.50	106.34	3,157.60	-6,099.40	-135.90	463.45	1,579,514.91	2,303,532.43	0.00	-135.90	MWD (1)
3,300.00	10.50	106.34	3,255.93	-6,001.07	-141.03	480.93	1,579,509.78	2,303,549.91	0.00	-141.03	MWD (1)
8 5/8" Casing Pt.											
3,400.00	10.50	106.34	3,354.25	-5,902.75	-146.15	498.41	1,579,504.65	2,303,567.39	0.00	-146.15	MWD (1)
3,500.00	10.50	106.34	3,452.58	-5,804.42	-151.28	515.90	1,579,499.53	2,303,584.87	0.00	-151.28	MWD (1)
3,600.00	10.50	106.34	3,550.91	-5,706.09	-156.40	533.38	1,579,494.40	2,303,602.35	0.00	-156.40	MWD (1)
3,700.00	10.50	106.34	3,649.23	-5,607.77	-161.53	550.86	1,579,489.28	2,303,619.83	0.00	-161.53	MWD (1)
3,800.00	10.50	106.34	3,747.56	-5,509.44	-166.66	568.34	1,579,484.15	2,303,637.31	0.00	-166.66	MWD (1)
3,900.00	10.50	106.34	3,845.89	-5,411.11	-171.78	585.82	1,579,479.03	2,303,654.79	0.00	-171.78	MWD (1)
4,000.00	10.50	106.34	3,944.21	-5,312.79	-176.91	603.30	1,579,473.90	2,303,672.27	0.00	-176.91	MWD (1)
4,100.00	10.50	106.34	4,042.54	-5,214.46	-182.04	620.78	1,579,468.77	2,303,689.75	0.00	-182.04	MWD (1)
4,200.00	10.50	106.34	4,140.87	-5,116.13	-187.16	638.27	1,579,463.65	2,303,707.23	0.00	-187.16	MWD (1)
4,300.00	10.50	106.34	4,239.19	-5,017.81	-192.29	655.75	1,579,458.52	2,303,724.71	0.00	-192.29	MWD (1)
4,400.00	10.50	106.34	4,337.52	-4,919.48	-197.41	673.23	1,579,453.40	2,303,742.19	0.00	-197.41	MWD (1)
4,500.00	10.50	106.34	4,435.85	-4,821.15	-202.54	690.71	1,579,448.27	2,303,759.68	0.00	-202.54	MWD (1)
4,600.00	10.50	106.34	4,534.17	-4,722.83	-207.67	708.19	1,579,443.14	2,303,777.16	0.00	-207.67	MWD (1)
4,700.00	10.50	106.34	4,632.50	-4,624.50	-212.79	725.67	1,579,438.02	2,303,794.64	0.00	-212.79	MWD (1)
4,800.00	10.50	106.34	4,730.83	-4,526.17	-217.92	743.15	1,579,432.89	2,303,812.12	0.00	-217.92	MWD (1)
4,900.00	10.50	106.34	4,829.15	-4,427.85	-223.05	760.64	1,579,427.77	2,303,829.60	0.00	-223.05	MWD (1)

Sperry Drilling

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Site: Sec. 35-T7S-R95W (BM 35C PAD)
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Planned Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	DLS (°/100')	Vertical Section (ft)	Survey Tool Name
5,000.00	10.50	106.34	4,927.48	-4,329.52	-228.17	778.12	1,579,422.64	2,303,847.08	0.00	-228.17	MWD (1)
5,100.00	10.50	106.34	5,025.81	-4,231.19	-233.30	795.60	1,579,417.51	2,303,864.56	0.00	-233.30	MWD (1)
5,200.00	10.50	106.34	5,124.13	-4,132.87	-238.42	813.08	1,579,412.39	2,303,882.04	0.00	-238.42	MWD (1)
5,300.00	10.50	106.34	5,222.46	-4,034.54	-243.55	830.56	1,579,407.26	2,303,899.52	0.00	-243.55	MWD (1)
5,400.00	10.50	106.34	5,320.79	-3,936.21	-248.68	848.04	1,579,402.14	2,303,917.00	0.00	-248.68	MWD (1)
5,500.00	10.50	106.34	5,419.11	-3,837.89	-253.80	865.52	1,579,397.01	2,303,934.48	0.00	-253.80	MWD (1)
5,600.00	10.50	106.34	5,517.44	-3,739.56	-258.93	883.01	1,579,391.88	2,303,951.96	0.00	-258.93	MWD (1)
5,700.00	10.50	106.34	5,615.77	-3,641.23	-264.05	900.49	1,579,386.76	2,303,969.44	0.00	-264.05	MWD (1)
5,800.00	10.50	106.34	5,714.09	-3,542.91	-269.18	917.97	1,579,381.63	2,303,986.92	0.00	-269.18	MWD (1)
5,900.00	10.50	106.34	5,812.42	-3,444.58	-274.31	935.45	1,579,376.51	2,304,004.40	0.00	-274.31	MWD (1)
6,000.00	10.50	106.34	5,910.75	-3,346.25	-279.43	952.93	1,579,371.38	2,304,021.88	0.00	-279.43	MWD (1)
6,100.00	10.50	106.34	6,009.07	-3,247.93	-284.56	970.41	1,579,366.26	2,304,039.36	0.00	-284.56	MWD (1)
6,200.00	10.50	106.34	6,107.40	-3,149.60	-289.69	987.89	1,579,361.13	2,304,056.84	0.00	-289.69	MWD (1)
6,300.00	10.50	106.34	6,205.72	-3,051.28	-294.81	1,005.38	1,579,356.00	2,304,074.33	0.00	-294.81	MWD (1)
6,400.00	10.50	106.34	6,304.05	-2,952.95	-299.94	1,022.86	1,579,350.88	2,304,091.81	0.00	-299.94	MWD (1)
6,489.59	10.50	106.34	6,392.14	-2,864.86	-304.53	1,038.52	1,579,346.29	2,304,107.47	0.00	-304.53	MWD (1)
Start Drop -1.50											
6,500.00	10.34	106.34	6,402.38	-2,854.62	-305.06	1,040.33	1,579,345.76	2,304,109.27	1.50	-305.06	MWD (1)
6,600.00	8.84	106.34	6,500.98	-2,756.02	-309.75	1,056.31	1,579,341.07	2,304,125.26	1.50	-309.75	MWD (1)
6,700.00	7.34	106.34	6,599.98	-2,657.02	-313.71	1,069.82	1,579,337.11	2,304,138.76	1.50	-313.71	MWD (1)
6,800.00	5.84	106.34	6,699.32	-2,557.68	-316.94	1,080.83	1,579,333.88	2,304,149.78	1.50	-316.94	MWD (1)
6,900.00	4.34	106.34	6,798.92	-2,458.08	-319.43	1,089.34	1,579,331.38	2,304,158.29	1.50	-319.43	MWD (1)
7,000.00	2.84	106.34	6,898.72	-2,358.28	-321.20	1,095.35	1,579,329.62	2,304,164.30	1.50	-321.20	MWD (1)
7,100.00	1.34	106.34	6,998.65	-2,258.35	-322.22	1,098.85	1,579,328.59	2,304,167.80	1.50	-322.22	MWD (1)
7,189.36	0.00	2.43	7,088.00	-2,169.00	-322.52	1,099.86	1,579,328.30	2,304,168.80	1.50	-322.52	MWD (1)
Start 4100.00 hold at 7189.36 MD											
7,200.00	0.00	2.43	7,098.64	-2,158.36	-322.52	1,099.86	1,579,328.30	2,304,168.80	0.00	-322.52	MWD (1)
7,237.36	0.00	2.43	7,136.00	-2,121.00	-322.52	1,099.86	1,579,328.30	2,304,168.80	0.00	-322.52	MWD (1)
Williams Fork											
7,300.00	0.00	2.43	7,198.64	-2,058.36	-322.52	1,099.86	1,579,328.30	2,304,168.80	0.00	-322.52	MWD (1)
7,400.00	0.00	2.43	7,298.64	-1,958.36	-322.52	1,099.86	1,579,328.30	2,304,168.80	0.00	-322.52	MWD (1)
7,500.00	0.00	2.43	7,398.64	-1,858.36	-322.52	1,099.86	1,579,328.30	2,304,168.80	0.00	-322.52	MWD (1)
7,600.00	0.00	2.43	7,498.64	-1,758.36	-322.52	1,099.86	1,579,328.30	2,304,168.80	0.00	-322.52	MWD (1)
7,700.00	0.00	2.43	7,598.64	-1,658.36	-322.52	1,099.86	1,579,328.30	2,304,168.80	0.00	-322.52	MWD (1)
7,800.00	0.00	2.43	7,698.64	-1,558.36	-322.52	1,099.86	1,579,328.30	2,304,168.80	0.00	-322.52	MWD (1)
7,900.00	0.00	2.43	7,798.64	-1,458.36	-322.52	1,099.86	1,579,328.30	2,304,168.80	0.00	-322.52	MWD (1)
8,000.00	0.00	2.43	7,898.64	-1,358.36	-322.52	1,099.86	1,579,328.30	2,304,168.80	0.00	-322.52	MWD (1)
8,100.00	0.00	2.43	7,998.64	-1,258.36	-322.52	1,099.86	1,579,328.30	2,304,168.80	0.00	-322.52	MWD (1)
8,200.00	0.00	2.43	8,098.64	-1,158.36	-322.52	1,099.86	1,579,328.30	2,304,168.80	0.00	-322.52	MWD (1)
8,219.36	0.00	2.43	8,118.00	-1,139.00	-322.52	1,099.86	1,579,328.30	2,304,168.80	0.00	-322.52	MWD (1)
Top of Gas											

Sperry Drilling

Definitive Survey Report

Company: Noble Energy (Rockies)
Project: Garfield County, CO (NAD 83)
Site: Sec. 35-T7S-R95W (BM 35C PAD)
Well: BM 35-31D
Wellbore: BM 35-31D
Design: BM 35-31D Proposal 2.0

Local Co-ordinate Reference: Well BM 35-31D
TVD Reference: RKB - 24' @ 9257.00ft
MD Reference: RKB - 24' @ 9257.00ft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: .Sperry EDM .16 PRD

Planned Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	DLS (°/100')	Vertical Section (ft)	Survey Tool Name
8,300.00	0.00	2.43	8,198.64	-1,058.36	-322.52	1,099.86	1,579,328.30	2,304,168.80	0.00	-322.52	MWD (1)
8,400.00	0.00	2.43	8,298.64	-958.36	-322.52	1,099.86	1,579,328.30	2,304,168.80	0.00	-322.52	MWD (1)
8,500.00	0.00	2.43	8,398.64	-858.36	-322.52	1,099.86	1,579,328.30	2,304,168.80	0.00	-322.52	MWD (1)
8,600.00	0.00	2.43	8,498.64	-758.36	-322.52	1,099.86	1,579,328.30	2,304,168.80	0.00	-322.52	MWD (1)
8,700.00	0.00	2.43	8,598.64	-658.36	-322.52	1,099.86	1,579,328.30	2,304,168.80	0.00	-322.52	MWD (1)
8,800.00	0.00	2.43	8,698.64	-558.36	-322.52	1,099.86	1,579,328.30	2,304,168.80	0.00	-322.52	MWD (1)
8,900.00	0.00	2.43	8,798.64	-458.36	-322.52	1,099.86	1,579,328.30	2,304,168.80	0.00	-322.52	MWD (1)
9,000.00	0.00	2.43	8,898.64	-358.36	-322.52	1,099.86	1,579,328.30	2,304,168.80	0.00	-322.52	MWD (1)
9,100.00	0.00	2.43	8,998.64	-258.36	-322.52	1,099.86	1,579,328.30	2,304,168.80	0.00	-322.52	MWD (1)
9,200.00	0.00	2.43	9,098.64	-158.36	-322.52	1,099.86	1,579,328.30	2,304,168.80	0.00	-322.52	MWD (1)
9,300.00	0.00	2.43	9,198.64	-58.36	-322.52	1,099.86	1,579,328.30	2,304,168.80	0.00	-322.52	MWD (1)
9,400.00	0.00	2.43	9,298.64	41.64	-322.52	1,099.86	1,579,328.30	2,304,168.80	0.00	-322.52	MWD (1)
9,500.00	0.00	2.43	9,398.64	141.64	-322.52	1,099.86	1,579,328.30	2,304,168.80	0.00	-322.52	MWD (1)
9,600.00	0.00	2.43	9,498.64	241.64	-322.52	1,099.86	1,579,328.30	2,304,168.80	0.00	-322.52	MWD (1)
9,700.00	0.00	2.43	9,598.64	341.64	-322.52	1,099.86	1,579,328.30	2,304,168.80	0.00	-322.52	MWD (1)
9,780.36	0.00	2.43	9,679.00	422.00	-322.52	1,099.86	1,579,328.30	2,304,168.80	0.00	-322.52	MWD (1)
Cameo											
9,800.00	0.00	2.43	9,698.64	441.64	-322.52	1,099.86	1,579,328.30	2,304,168.80	0.00	-322.52	MWD (1)
9,900.00	0.00	2.43	9,798.64	541.64	-322.52	1,099.86	1,579,328.30	2,304,168.80	0.00	-322.52	MWD (1)
10,000.00	0.00	2.43	9,898.64	641.64	-322.52	1,099.86	1,579,328.30	2,304,168.80	0.00	-322.52	MWD (1)
10,100.00	0.00	2.43	9,998.64	741.64	-322.52	1,099.86	1,579,328.30	2,304,168.80	0.00	-322.52	MWD (1)
10,153.36	0.00	2.43	10,052.00	795.00	-322.52	1,099.86	1,579,328.30	2,304,168.80	0.00	-322.52	MWD (1)
Rollins											
10,200.00	0.00	2.43	10,098.64	841.64	-322.52	1,099.86	1,579,328.30	2,304,168.80	0.00	-322.52	MWD (1)
10,300.00	0.00	2.43	10,198.64	941.64	-322.52	1,099.86	1,579,328.30	2,304,168.80	0.00	-322.52	MWD (1)
10,400.00	0.00	2.43	10,298.64	1,041.64	-322.52	1,099.86	1,579,328.30	2,304,168.80	0.00	-322.52	MWD (1)
10,500.00	0.00	2.43	10,398.64	1,141.64	-322.52	1,099.86	1,579,328.30	2,304,168.80	0.00	-322.52	MWD (1)
10,501.36	0.00	2.43	10,400.00	1,143.00	-322.52	1,099.86	1,579,328.30	2,304,168.80	0.00	-322.52	MWD (1)
Cozzette											
10,600.00	0.00	2.43	10,498.64	1,241.64	-322.52	1,099.86	1,579,328.30	2,304,168.80	0.00	-322.52	MWD (1)
10,700.00	0.00	2.43	10,598.64	1,341.64	-322.52	1,099.86	1,579,328.30	2,304,168.80	0.00	-322.52	MWD (1)
10,798.36	0.00	2.43	10,697.00	1,440.00	-322.52	1,099.86	1,579,328.30	2,304,168.80	0.00	-322.52	MWD (1)
Corcoran											
10,800.00	0.00	2.43	10,698.64	1,441.64	-322.52	1,099.86	1,579,328.30	2,304,168.80	0.00	-322.52	MWD (1)
10,900.00	0.00	2.43	10,798.64	1,541.64	-322.52	1,099.86	1,579,328.30	2,304,168.80	0.00	-322.52	MWD (1)
11,000.00	0.00	2.43	10,898.64	1,641.64	-322.52	1,099.86	1,579,328.30	2,304,168.80	0.00	-322.52	MWD (1)
11,039.36	0.00	2.43	10,938.00	1,681.00	-322.52	1,099.86	1,579,328.30	2,304,168.80	0.00	-322.52	MWD (1)
Mancos											
11,100.00	0.00	2.43	10,998.64	1,741.64	-322.52	1,099.86	1,579,328.30	2,304,168.80	0.00	-322.52	MWD (1)
11,200.00	0.00	2.43	11,098.64	1,841.64	-322.52	1,099.86	1,579,328.30	2,304,168.80	0.00	-322.52	MWD (1)
11,289.36	0.00	2.43	11,188.00	1,931.00	-322.52	1,099.86	1,579,328.30	2,304,168.80	0.00	-322.52	MWD (1)

Sperry Drilling

Definitive Survey Report

Company:	Noble Energy (Rockies)	Local Co-ordinate Reference:	Well BM 35-31D
Project:	Garfield County, CO (NAD 83)	TVD Reference:	RKB - 24' @ 9257.00ft
Site:	Sec. 35-T7S-R95W (BM 35C PAD)	MD Reference:	RKB - 24' @ 9257.00ft
Well:	BM 35-31D	North Reference:	Grid
Wellbore:	BM 35-31D	Survey Calculation Method:	Minimum Curvature
Design:	BM 35-31D Proposal 2.0	Database:	.Sperry EDM .16 PRD

Planned Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	DLS (°/100')	Vertical Section (ft)	Survey Tool Name
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TD at 11289.36 - BM 35-31D

Sperry Drilling

Anticollision Summary Report

Company:	Noble Energy (Rockies)	Local Co-ordinate Reference:	Well BM 35-31D
Project:	Garfield County, CO (NAD 83)	TVD Reference:	RKB - 24' @ 9257.00ft
Reference Site:	Sec. 35-T7S-R95W (BM 35C PAD)	MD Reference:	RKB - 24' @ 9257.00ft
Site Error:	0.00ft	North Reference:	Grid
Reference Well:	BM 35-31D	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	BM 35-31D	Database:	.Sperry EDM .16 PRD
Reference Design:	BM 35-31D Proposal 2.0	Offset TVD Reference:	Offset Datum

Reference	BM 35-31D Proposal 2.0		
Filter type:	GLOBAL FILTER APPLIED: All wellpaths within 200'+ 100/1000 of reference		
Interpolation Method:	MD Interval 100.00ft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 1,328.94ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program	Date	2/13/2010		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.00	11,289.36	BM 35-31D Proposal 2.0 (BM 35-31D)	MWD	MWD - Standard

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						
Sec. 35-T7S-R95W (BM 35C PAD)						
BM 35-12 (Existing Well) - BM 35-12 - Plan #1 Proposal	200.00	203.00	22.55	21.93	35.967 CC	
BM 35-12 (Existing Well) - BM 35-12 - Plan #1 Proposal	300.00	302.99	22.87	21.80	21.514 ES	
BM 35-12 (Existing Well) - BM 35-12 - Plan #1 Proposal	600.00	602.27	33.84	31.41	13.950 SF	
BM 35-21A - BM 35-21A - BM 35-21A Proposal 2.0	200.00	200.00	9.49	8.87	15.298 CC, ES	
BM 35-21A - BM 35-21A - BM 35-21A Proposal 2.0	300.00	299.77	11.71	10.65	11.037 SF	
BM 35-21B - BM 35-21B - BM 35-21B Proposal 2.0	200.00	200.00	17.73	17.11	28.575 CC, ES	
BM 35-21B - BM 35-21B - BM 35-21B Proposal 2.0	400.00	399.58	22.89	21.39	15.255 SF	
BM 35-21C - BM 35-21C - BM 35-21C Proposal 2.0	200.00	200.00	31.47	30.85	50.736 CC, ES	
BM 35-21C - BM 35-21C - BM 35-21C Proposal 2.0	500.00	497.09	49.04	47.10	25.204 SF	
BM 35-21D (Existing Well) - BM 35-21D - BM 35-21D	105.28	108.29	44.14	43.90	185.888 CC, ES	
BM 35-21D (Existing Well) - BM 35-21D - BM 35-21D	9,300.00	9,174.69	1,326.34	1,283.39	30.879 SF	
BM 35-22A - BM 35-22A - BM 35-22A Proposal 2.0	200.00	200.00	67.49	66.87	108.792 CC, ES	
BM 35-22A - BM 35-22A - BM 35-22A Proposal 2.0	1,900.00	1,864.32	342.17	332.23	34.397 SF	
BM 35-22B - BM 35-22B - BM 35-22B Proposal 2.0	200.00	200.00	59.97	59.35	96.673 CC, ES	
BM 35-22B - BM 35-22B - BM 35-22B Proposal 2.0	800.00	785.87	112.89	109.39	32.167 SF	
BM 35-22C - BM 35-22C - BM 35-22C Proposal 2.0	200.00	200.00	52.54	51.92	84.695 CC, ES	
BM 35-22C - BM 35-22C - BM 35-22C Proposal 2.0	900.00	892.39	97.80	93.79	24.390 SF	
BM 35-31A - BM 35-31A - BM 35-31A Proposal 2.0	200.00	200.00	12.05	11.43	19.432 CC, ES	
BM 35-31A - BM 35-31A - BM 35-31A Proposal 2.0	400.00	399.69	16.88	15.38	11.287 SF	
BM 35-31B - BM 35-31B - BM 35-31B Proposal 2.0	200.00	200.00	12.07	10.52	7.807 CC	
BM 35-31B - BM 35-31B - BM 35-31B Proposal 2.0	300.00	300.16	12.93	10.29	4.889 ES	
BM 35-31B - BM 35-31B - BM 35-31B Proposal 2.0	500.00	500.80	15.54	11.71	4.053 SF	
BM 35-31C - BM 35-31C - BM 35-31C Proposal 2.0	276.11	276.09	7.43	6.48	7.831 CC	
BM 35-31C - BM 35-31C - BM 35-31C Proposal 2.0	300.00	299.96	7.45	6.40	7.102 ES	
BM 35-31C - BM 35-31C - BM 35-31C Proposal 2.0	11,289.36	11,284.90	287.00	222.81	4.471 SF	
BM 35-32A (Existing Well) - BM 35-32A - BM 35-32A	100.07	103.07	6.08	5.89	31.731 CC, ES	
BM 35-32A (Existing Well) - BM 35-32A - BM 35-32A	900.00	902.71	21.49	17.10	4.901 SF	
BM 35-32B - BM 35-32B - BM 35-32B Proposal 2.0	200.00	200.00	29.99	29.37	48.336 CC	
BM 35-32B - BM 35-32B - BM 35-32B Proposal 2.0	300.00	299.99	30.29	29.24	28.684 ES	
BM 35-32B - BM 35-32B - BM 35-32B Proposal 2.0	11,289.36	11,344.41	713.82	649.28	11.060 SF	
BM 35-32C - BM 35-32C - BM 35-32C Proposal 2.0	200.00	200.00	37.50	36.88	60.456 CC, ES	
BM 35-32C - BM 35-32C - BM 35-32C Proposal 2.0	11,289.36	11,387.92	1,029.57	964.72	15.874 SF	

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