



SUMMARY OF ROUTINE CORE ANALYSES RESULTS

Vacuum Oven Dried at 180° F Net Confining Stress: 1,850 psi

Noble Energy Inc.
Timbro PC LD16-17
Wildcat Field

Weld County, Colorado
File: CO-51940
Date: 10/17/2011

Core Number	Sample Number	Sample Depth, feet	Permeability, millidarcys		Porosity, percent		Grain Density, gm/cc	Fluid Saturations, percent		
			to Air	Klinkenberg	Ambient	NCS		Water	Oil	Total
1	1-51	5638.10	0.083	0.054	14.4	14.3	2.68	20.7	54.3	75.0
1	1-59(F)	5646.10	+		14.9		2.71	8.0	54.9	62.9
1	1-59V	5646.30	0.0018	0.0005	13.6	13.5	2.71	7.7	56.5	64.3
1	1-69(F)	5656.25	+		12.3		2.71	15.9	51.6	67.5
1	1-96(F)	5683.60	+		11.5		2.66	27.3	50.7	78.0
1	1-105(F)	5692.40	+		13.1		2.67	14.2	62.9	77.1
1	1-118(F)	5705.35	+		9.3		2.64	37.7	43.2	81.0
2	2-3(F)	5,714.40	+		10.5		2.63	22.5	49.6	72.1
2	2-9	5,720.85	0.014	0.0069	12.8	12.8	2.66	11.4	65.6	77.0
2	2-16V	5,727.20	<0.0001		12.3	12.2	2.65	12.3	59.9	72.2
2	2-16(F)	5,727.90	+		9.7		2.61	16.0	63.7	79.7
2	2-27(F)	5,738.70	+		11.3		2.66	11.4	58.7	70.1
2	2-33V(F)	5,745.95	+		11.9		2.66	11.0	56.0	67.0
2	2-33(F)	5,746.30	+		12.5		2.68	9.7	58.4	68.1
3	3-34(F)	5870.20	+		9.6		2.67	22.4	45.7	68.0
3	3-34V(F)	5870.75	+		7.2		2.64	52.1	23.4	75.6
3	3-39(F)	5875.75	+		8.8		2.59	20.3	64.7	85.0
3	3-45(F)	5881.60	+		8.7		2.59	18.9	59.9	78.8
3	3-53(F)	5889.85	+		10.1		2.66	9.9	53.3	63.2
3	3-69	5905.70	0.013	0.0065	8.4	8.4	2.73	69.4	5.0	74.4
3	3-69V(F)	5905.90	+		7.8		2.73	68.8	2.1	70.8
3	3-75(F)	5911.71	+		6.6		2.72	62.9	10.4	73.4
3	3-81(F)	5917.80	+		6.2		2.71	80.8	2.4	83.1
3	3-81V	5917.90	0.0006	0.0001	6.1	6.1	2.71	82.0	2.1	84.1
3	3-93	5929.65	0.0037	0.0013	6.8	6.8	2.73	72.6	2.0	74.6
3	3-99(F)	5935.50	+		14.6		2.68	41.1	28.6	69.7
3	3-102	5938.50	0.087	0.050	17.0	16.9	2.69	23.7	41.0	64.6
3	3-102V	5938.70	0.020	0.010	15.0	14.9	2.70	23.5	38.2	61.7
3	3-105(F)	5941.90	+		9.2		2.70	90.6	1.9	92.5
3	3-105V(F)	5941.90	+		9.2		2.67	90.9	1.6	92.4
Average values:			0.028	0.016	10.7	11.8	2.68	35.2	38.9	74.1

+ Indicates the sample is unsuitable for this type of measurement

(F) Indicates the sample is fractured into multiple pieces