



4640 Pecos Street | Unit C | Denver, Colorado 80211
303.433.1322 Phone 303.265.9645 Fax

May 11, 2009

Noble Energy Inc.

804 Grand Avenue

Platteville CO 80651

Ty Hutton

Project Number: N/A

Project: Marie O 4-13,14,25

Attached are the analytical results for Marie O 4-13,14,25 received by Origins Laboratory, Inc. 5/4/2009 12:00:00PM. Please let us know if you have any questions, or if we can help with anything at all.

Noelle E Doyle
Laboratory Manager

The analytical results in the following report were analyzed under the guidelines of EPA Methods specified in SW-846. The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. This laboratory report is intended solely for the above addressee and it is only to be used and or reproduced in its entirety.

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Noble Energy Inc.
804 Grand Avenue
Platteville CO 80651

Ty Hutton
Project Number: N/A
Project: Marie O 4-13,14,25

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Sampled	Date Received
NW	X905010-01	Soil	5/1/2009 9:30:00AM	05/04/2009 12:00
EW	X905010-02	Soil	5/1/2009 9:30:00AM	05/04/2009 12:00
SW	X905010-03	Soil	5/1/2009 9:30:00AM	05/04/2009 12:00
WW	X905010-04	Soil	5/1/2009 9:30:00AM	05/04/2009 12:00
F	X905010-05	Soil	5/1/2009 9:30:00AM	05/04/2009 12:00
F2	X905010-06	Soil	5/1/2009 9:30:00AM	05/04/2009 12:00

Origins Laboratory, Inc.

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Noelle E Doyle, Laboratory Manager

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Ty Hutton
Project Number: N/A
Project: Marie O 4-13,14,25

1905010
page 1 of 1



originslaboratory.com

Client: Noble Energy Inc.
Address: 804 Grand Ave
Platteville CO 80651
Telephone Number: 303-579-9764
E-Mail Address: hutton@nobleenergyinc.com

Project Manager: Ty Hutton
Project Name: Marie O 4-13,14,25
Project Number: N/A
Samples Collected by: Ty Hutton

Sample ID - Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other -	Groundwater	Soil	Air - Summa Canister #		
120	5-1-09	0930	1					X			TPH	1
EW	5-1-09	0930	1					X			8C,PH	2
SW	5-1-09	0930	1					X				3
W	5-1-09	0930	1					X				4
F	5-1-09	0930	1					X				5
F2	5-1-09	0930	1					X				6
												7
												8
												9
												10

Relinquished by: Ty Hutton
Date: 5-4-09
Time: 1200

Received by: C. Doody
Date: 5/1/09
Time: 1200

Temperature Upon Receipt: 2-4C

Turn Around Time: Same Day 24-hr 48-hr 72-hr

4640 North Pecos Street | Unit C | Denver, Colorado 80211 | Laboratory - 303.433.1322 | Fax - 303.265.9645

Origins Laboratory, Inc.

Noelle E Doyle, Laboratory Manager

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Ty Hutton
Project Number: N/A
Project: Marie O 4-13,14,25

NW
X905010-01 (Soil)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

TPH-Carbon Chain by EPA Method 8015M

Gasoline (C6-C10)	ND	50.0	mg/kg	1	9E04004	05/04/2009	05/05/2009
Diesel (C10-C28)	ND	50.0	"	"	"	"	"
Residual Range Organics (C28-C36)	ND	200.0	"	"	"	"	"
TPH - Carbon Chain Total	ND	50.0	"	"	"	"	"
Surrogate: o-Terphenyl	111 %	65-140			"	"	"

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Ty Hutton
Project Number: N/A
Project: Marie O 4-13,14,25

EW
X905010-02 (Soil)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

TPH-Carbon Chain by EPA Method 8015M

Gasoline (C6-C10)	ND	50.0	mg/kg	1	9E04004	05/04/2009	05/05/2009
Diesel (C10-C28)	ND	50.0	"	"	"	"	"
Residual Range Organics (C28-C36)	ND	200.0	"	"	"	"	"
TPH - Carbon Chain Total	ND	50.0	"	"	"	"	"

Surrogate: o-Terphenyl	89.8 %	65-140	"	"	"	"	"
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Ty Hutton
Project Number: N/A
Project: Marie O 4-13,14,25

SW
X905010-03 (Soil)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

TPH-Carbon Chain by EPA Method 8015M

Gasoline (C6-C10)	ND	50.0	mg/kg	1	9E04004	05/04/2009	05/05/2009
Diesel (C10-C28)	ND	50.0	"	"	"	"	"
Residual Range Organics (C28-C36)	ND	200.0	"	"	"	"	"
TPH - Carbon Chain Total	ND	50.0	"	"	"	"	"

Surrogate: o-Terphenyl	93.4 %	65-140	"	"	"	"	"
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Project: Marie O 4-13,14,25

WW
X905010-04 (Soil)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

TPH-Carbon Chain by EPA Method 8015M

Gasoline (C6-C10)	ND	50.0	mg/kg	1	9E04004	05/04/2009	05/05/2009
Diesel (C10-C28)	ND	50.0	"	"	"	"	"
Residual Range Organics (C28-C36)	ND	200.0	"	"	"	"	"
TPH - Carbon Chain Total	ND	50.0	"	"	"	"	"
Surrogate: o-Terphenyl	93.0 %	65-140			"	"	"

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Ty Hutton
Project Number: N/A
Project: Marie O 4-13,14,25

F
X905010-05 (Soil)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

TPH-Carbon Chain by EPA Method 8015M

Gasoline (C6-C10)	ND	50.0	mg/kg	1	9E04004	05/04/2009	05/05/2009
Diesel (C10-C28)	138.1	50.0	"	"	"	"	"
Residual Range Organics (C28-C36)	ND	200.0	"	"	"	"	"
TPH - Carbon Chain Total	138.1	50.0	"	"	"	"	"

Surrogate: o-Terphenyl	91.0 %	65-140	"	"	"	"	"
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F2

X905010-06 (Soil)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

GENAPURE

pH by SW-846 9045

pH	8.93	0.1	pH unit	1	1085		05/08/2009
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Specific Conductance by EPA 120.1

Specific Conductance	138	2	umhos/ cm	1	1039	05/07/2009	05/09/2009
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Total Percent Solids by SM2540G

Percent Solid	90.7		%	1	1747		05/06/2009
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Extractable Petroleum Hydrocarbons by 8015M – Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9E04004 – Default Prep GC-Semi

Blank (9E04004-BLK1)

Prepared: 05/04/2009 Analyzed: 05/05/2009

Gasoline (C6-C10)	ND	50.0	mg/kg
Diesel (C10-C28)	ND	50.0	"
Residual Range Organics (C28-C36)	ND	200.0	"
TPH – Carbon Chain Total	ND	50.0	"

Surrogate: o-Terphenyl 56.7 g 50.0 113 65-140

LCS (9E04004-BS1)

Prepared: 05/04/2009 Analyzed: 05/05/2009

Gasoline (C6-C10)	61.4	50.0	mg/kg			65-140
Diesel (C10-C28)	206.8	50.0	"	200	103	60-140

Surrogate: o-Terphenyl 44.7 g 50.0 89.4 65-140

Matrix Spike (9E04004-MS1)

Source: X904086-01

Prepared: 05/04/2009 Analyzed: 05/05/2009

Gasoline (C6-C10)	60.0	50.0	mg/kg		36.2	65-130
Diesel (C10-C28)	213.6	50.0	"	200	27.7 93.0	60-140

Surrogate: o-Terphenyl 44.3 g 50.0 88.6 65-140

Matrix Spike Dup (9E04004-MSD1)

Source: X904086-01

Prepared: 05/04/2009 Analyzed: 05/05/2009

Gasoline (C6-C10)	56.4	50.0	mg/kg		36.2	65-130	6.27	20
Diesel (C10-C28)	223.8	50.0	"	200	27.7 98.1	60-140	4.67	25

Surrogate: o-Terphenyl 46.5 g 50.0 93.0 65-140

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pH by SW-846 9045 – Quality Control
GENAPURE

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 1085 –

DUP (27422)

Source: 904778001

Prepared: Analyzed: 05/08/2009

pH	7.02	0.1	pH unit	7.03	–	0.1	10	
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Specific Conductance by EPA 120.1 – Quality Control
GENAPURE

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 1039 –

BLANK (27676)

Prepared: Analyzed: 05/09/2009

Specific Conductance	ND	2	umhos/cm			–			
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DUP (27677)

Source: X905010-06

Prepared: Analyzed: 05/09/2009

Specific Conductance	138	2	umhos/cm		138	–	0.4		
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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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