



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

October 08, 2009

Noble Energy Inc.
804 Grand Avenue
Platteville CO 80651

Marty Faraguna
Project Number: N/A
Project: Nichols 34-16

Attached are the analytical results for Nichols 34-16 received by Origins Laboratory, Inc. 10/7/2009 11:45:00AM. Please let us know if you have any questions, or if we can help with anything at all.

A handwritten signature in black ink, appearing to read "Noelle E Doyle".

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

Marty Faraguna
Project Number: N/A
Project: Nichols 34-16

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Sampled	Date Received
E	X910030-01	Soil	10/7/2009 9:30:00AM	10/07/2009 11:45
N	X910030-02	Soil	10/7/2009 9:30:00AM	10/07/2009 11:45
S	X910030-03	Soil	10/7/2009 10:00:00AM	10/07/2009 11:45
W	X910030-04	Soil	10/7/2009 10:00:00AM	10/07/2009 11:45
B1	X910030-05	Soil	10/7/2009 11:00:00AM	10/07/2009 11:45
B2	X910030-06	Soil	10/7/2009 11:00:00AM	10/07/2009 11:45

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Noelle E Doyle, Laboratory Manager



Noble Energy Inc.
 804 Grand Avenue
 Platteville CO 80651

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 Project Number: N/A
 Project: Nichols 34-16

X910030
 page 1 of 1



originslaboratory.com

Project Manager: M. Faraguna
 Project Name: Nichols 34-16
 Project Number:
 Samples Collected by: MJE
 Client: Noble Energy
 Address: 804 Grand Ave.
Platteville Co 80651
 Telephone Number:
 E-Mail Address:

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 #	Other -	TPH	BTEX	Other	
E	10/2/09	9:30	1							X				
N	"	"	1							X				
S	"	10:00	1							X				
W	"	"	1							X				
B1	"	11:00	1							X				
B2	"	11:00	1							X				
Relinquished by:	Date	Time	Received by:	Date	Time	Temperature Upon Receipt:								
<u>Marty Faraguna</u>	10/2/09	11:45	<u>M. Faraguna</u>	10/2/09	11:45	Turn Around Time:								
Relinquished by:	Date	Time	Received by:	Date	Time	Same Day								
						<input checked="" type="checkbox"/>								
						48-hr								
						72-hr								
						Standard								

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Marty Faraguna
 Project Number: N/A
 Project: Nichols 34-16

E

X910030-01 (Soil)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

BTEX by EPA 8260B

Benzene	ND	4.00	ug/kg	1	9j07002	10/07/2009	10/07/2009	
Toluene	ND	4.00	"	"	"	"	"	
Ethylbenzene	ND	4.00	"	"	"	"	"	
o-Xylene	ND	4.00	"	"	"	"	"	
m,p-Xylene	ND	8.00	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	91.9 %	77.6-134			"	"	"	
Surrogate: Toluene-d8	116 %	81.4-121			"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %	74.7-123			"	"	"	

TPH-Carbon Chain by EPA Method 8015M

Gasoline (C6-C10)	ND	50.0	mg/kg	1	9j07001	10/07/2009	10/07/2009	
Diesel (C10-C28)	ND	50.0	"	"	"	"	"	
Residual Range Organics (C28-C36)	ND	200	"	"	"	"	"	
TPH - Carbon Chain Total	ND	50.0	"	"	"	"	"	

Surrogate: o-Terphenyl	77.0 %	65-140			"	"	"	
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Noble Energy Inc.
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Marty Faraguna
 Project Number: N/A
 Project: Nichols 34-16

N
X910030-02 (Soil)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

BTEX by EPA 8260B

Benzene	ND	4.00	ug/kg	1	9j07002	10/07/2009	10/07/2009
Toluene	ND	4.00	"	"	"	"	"
Ethylbenzene	ND	4.00	"	"	"	"	"
o-Xylene	ND	4.00	"	"	"	"	"
m,p-Xylene	ND	8.00	"	"	"	"	"

<i>Surrogate: 1,2-Dichloroethane-d4</i>	90.3 %	77.6-134			"	"	"
<i>Surrogate: Toluene-d8</i>	110 %	81.4-121			"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>	100 %	74.7-123			"	"	"

TPH-Carbon Chain by EPA Method 8015M

Gasoline (C6-C10)	ND	50.0	mg/kg	1	9j07001	10/07/2009	10/07/2009
Diesel (C10-C28)	ND	50.0	"	"	"	"	"
Residual Range Organics (C28-C36)	ND	200	"	"	"	"	"
TPH - Carbon Chain Total	ND	50.0	"	"	"	"	"

<i>Surrogate: o-Terphenyl</i>	77.9 %	65-140			"	"	"
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Marty Faraguna
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S
X910030-03 (Soil)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

BTEX by EPA 8260B

Benzene	ND	4.00	ug/kg	1	9J07002	10/07/2009	10/07/2009	
Toluene	ND	4.00	"	"	"	"	"	
Ethylbenzene	ND	4.00	"	"	"	"	"	
o-Xylene	ND	4.00	"	"	"	"	"	
m,p-Xylene	ND	8.00	"	"	"	"	"	

<i>Surrogate: 1,2-Dichloroethane-d4</i>	87.3 %	77.6-134			"	"	"	
<i>Surrogate: Toluene-d8</i>	107 %	81.4-121			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	103 %	74.7-123			"	"	"	

TPH-Carbon Chain by EPA Method 8015M

Gasoline (C6-C10)	ND	50.0	mg/kg	1	9J07001	10/07/2009	10/07/2009	
Diesel (C10-C28)	ND	50.0	"	"	"	"	"	
Residual Range Organics (C28-C36)	ND	200	"	"	"	"	"	
TPH - Carbon Chain Total	ND	50.0	"	"	"	"	"	

<i>Surrogate: o-Terphenyl</i>	77.1 %	65-140			"	"	"	
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Noble Energy Inc.
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Marty Faraguna
 Project Number: N/A
 Project: Nichols 34-16

W
X910030-04 (Soil)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

BTEX by EPA 8260B

Benzene	ND	4.00	ug/kg	1	9j07002	10/07/2009	10/07/2009
Toluene	ND	4.00	"	"	"	"	"
Ethylbenzene	ND	4.00	"	"	"	"	"
o-Xylene	ND	4.00	"	"	"	"	"
m,p-Xylene	ND	8.00	"	"	"	"	"

<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>90.2 %</i>	<i>77.6-134</i>			"	"	"
<i>Surrogate: Toluene-d8</i>	<i>113 %</i>	<i>81.4-121</i>			"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>108 %</i>	<i>74.7-123</i>			"	"	"

TPH-Carbon Chain by EPA Method 8015M

Gasoline (C6-C10)	ND	50.0	mg/kg	1	9j07001	10/07/2009	10/07/2009
Diesel (C10-C28)	ND	50.0	"	"	"	"	"
Residual Range Organics (C28-C36)	ND	200	"	"	"	"	"
TPH - Carbon Chain Total	ND	50.0	"	"	"	"	"

<i>Surrogate: o-Terphenyl</i>	<i>73.8 %</i>	<i>65-140</i>			"	"	"
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 Project: Nichols 34-16

B1
X910030-05 (Soil)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

BTEX by EPA 8260B

Benzene	ND	4.00	ug/kg	1	9j07002	10/07/2009	10/07/2009
Toluene	ND	4.00	"	"	"	"	"
Ethylbenzene	ND	4.00	"	"	"	"	"
o-Xylene	ND	4.00	"	"	"	"	"
m,p-Xylene	ND	8.00	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	91.8 %	77.6-134			"	"	"
Surrogate: Toluene-d8	112 %	81.4-121			"	"	"
Surrogate: 4-Bromofluorobenzene	108 %	74.7-123			"	"	"

TPH-Carbon Chain by EPA Method 8015M

Gasoline (C6-C10)	ND	50.0	mg/kg	1	9j07001	10/07/2009	10/07/2009
Diesel (C10-C28)	ND	50.0	"	"	"	"	"
Residual Range Organics (C28-C36)	ND	200	"	"	"	"	"
TPH - Carbon Chain Total	ND	50.0	"	"	"	"	"

Surrogate: o-Terphenyl	75.6 %	65-140			"	"	"
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B2
X910030-06 (Soil)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

BTEX by EPA 8260B

Benzene	ND	4.00	ug/kg	1	9j07002	10/07/2009	10/07/2009	
Toluene	ND	4.00	"	"	"	"	"	
Ethylbenzene	ND	4.00	"	"	"	"	"	
o-Xylene	ND	4.00	"	"	"	"	"	
m,p-Xylene	ND	8.00	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	97.8 %	77.6-134			"	"	"	
Surrogate: Toluene-d8	116 %	81.4-121			"	"	"	
Surrogate: 4-Bromofluorobenzene	108 %	74.7-123			"	"	"	

TPH-Carbon Chain by EPA Method 8015M

Gasoline (C6-C10)	ND	50.0	mg/kg	1	9j07001	10/07/2009	10/07/2009	
Diesel (C10-C28)	ND	50.0	"	"	"	"	10/07/2009	
Residual Range Organics (C28-C36)	ND	200	"	"	"	"	"	
TPH - Carbon Chain Total	ND	50.0	"	"	"	"	"	

Surrogate: o-Terphenyl	76.7 %	65-140			"	"	"	
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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
Batch 9J07001 – Default Prep GC-Semi										
Blank (9J07001-BLK1)					Prepared: 10/07/2009 Analyzed: 10/07/2009					
Gasoline (C6-C10)	ND	50.0	mg/kg							
Diesel (C10-C28)	ND	50.0	"							
Residual Range Organics (C28-C36)	ND	200	"							
TPH – Carbon Chain Total	ND	50.0	"							
<i>Surrogate: o-Terphenyl</i>	<i>38.5</i>		<i>g</i>	<i>50.0</i>		<i>77.1</i>	<i>65-140</i>			
LCS (9J07001-BS1)					Prepared: 10/07/2009 Analyzed: 10/07/2009					
Gasoline (C6-C10)	560	50.0	mg/kg	500		112	65-140			
Diesel (C10-C28)	79.0	50.0	"				60-140			
<i>Surrogate: o-Terphenyl</i>	<i>39.1</i>		<i>g</i>	<i>50.0</i>		<i>78.2</i>	<i>65-140</i>			
Matrix Spike (9J07001-MS1)					Source: X910025-01		Prepared: 10/07/2009 Analyzed: 10/07/2009			
Gasoline (C6-C10)	579	50.0	mg/kg	500	117	92.4	65-130			
Diesel (C10-C28)	61.1	50.0	"		ND		60-140			
<i>Surrogate: o-Terphenyl</i>	<i>41.9</i>		<i>g</i>	<i>50.0</i>		<i>83.8</i>	<i>65-140</i>			
Matrix Spike Dup (9J07001-MSD1)					Source: X910025-01		Prepared: 10/07/2009 Analyzed: 10/07/2009			
Gasoline (C6-C10)	562	50.0	mg/kg	500	117	88.9	65-130	3.00	20	
Diesel (C10-C28)	58.9	50.0	"		ND		60-140	3.68	25	
<i>Surrogate: o-Terphenyl</i>	<i>39.9</i>		<i>g</i>	<i>50.0</i>		<i>79.8</i>	<i>65-140</i>			

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Noelle E Doyle, Laboratory Manager

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Volatile Organic Compounds by EPA Method 8260B – 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 9J07002 – EPA 5030B

Blank (9J07002-BLK1)

Prepared: 10/07/2009 Analyzed: 10/07/2009

Benzene	ND	4.00	ug/kg							
Toluene	ND	4.00	"							
Ethylbenzene	ND	4.00	"							
o-Xylene	ND	4.00	"							
m,p-Xylene	ND	8.00	"							

<i>Surrogate: 1,2-Dichloroethane-d4</i>	61.5		ug/L	62.5		98.4	77.6-134			
<i>Surrogate: Toluene-d8</i>	68.8		"	62.5		110	81.4-121			
<i>Surrogate: 4-Bromofluorobenzene</i>	70.3		"	62.5		112	74.7-123			

LCS (9J07002-BS1)

Prepared: 10/07/2009 Analyzed: 10/07/2009

Benzene	209	4.00	ug/kg	200		104	77.2-128			
Toluene	179	4.00	"	200		89.3	76.3-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	56.4		ug/L	62.5		90.2	77.6-134			
<i>Surrogate: Toluene-d8</i>	65.7		"	62.5		105	81.4-121			
<i>Surrogate: 4-Bromofluorobenzene</i>	66.4		"	62.5		106	74.7-123			

LCS Dup (9J07002-BSD1)

Prepared: 10/07/2009 Analyzed: 10/07/2009

Benzene	200	4.00	ug/kg	200		100	77.2-128	4.22	200	
Toluene	177	4.00	"	200		88.4	76.3-130	1.06	200	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	60.9		ug/L	62.5		97.4	77.6-134			
<i>Surrogate: Toluene-d8</i>	68.6		"	62.5		110	81.4-121			
<i>Surrogate: 4-Bromofluorobenzene</i>	68.4		"	62.5		109	74.7-123			

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Marty Faraguna
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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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Noelle E Doyle, Laboratory Manager