



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

February 05, 2010

Noble Energy Inc.
804 Grand Avenue
Platteville CO 80651

Marty Faraguna
Project Number: [none]
Project: LDS F1-27,28

Attached are the analytical results for LDS F1-27,28 received by Origins Laboratory, Inc. 2/3/2010 10:21:00AM. Please let us know if you have any questions, or if we can help with anything at all.

Laboratory Manager
Noelle E Doyle

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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Project Number: [none]
Project: LDS F1-27,28

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Sampled	Date Received
Sample 1	X002010-01	Soil	2/1/2010 3:00:00PM	02/03/2010 10:21
Sample 2	X002010-02	Soil	2/1/2010 3:00:00PM	02/03/2010 10:21
Sample 3	X002010-03	Soil	2/1/2010 3:00:00PM	02/03/2010 10:21
Sample 4	X002010-04	Soil	2/1/2010 3:00:00PM	02/03/2010 10:21

Origins Laboratory, Inc.

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Noelle E Doyle, Laboratory Manager



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Project Number: [none]
Project: LDS F1-27,28

1002010
page 1 of 1



originslaboratory.com

Client: Noble Energy
Address: 804 Grand Ave
Platteville CO
Telephone Number: _____
E-Mail Address: _____

Project Manager: M Faraguna
Project Name: LDS F1-27,28
Project Number: _____
Samples Collected by: MJE

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 -		
Sample 1	2-1-10	3:00											1
Sample 2	"	"											2
Sample 3	"	"											3
Sample 4	"	"											4
													5
													6
													7
													8
													9
													10
Relinquished by: <u>Marty Faraguna</u>	Date: <u>2-3-10</u>	Time: <u>10:21</u>	Received by: _____	Date: _____	Time: _____	Temperature Upon Receipt: _____							
Relinquished by: _____	Date: _____	Time: _____	Received by: <u>[Signature]</u>	Date: <u>2/3/10</u>	Time: <u>10:21</u>	Turn Around Time: <u>24-hr</u>	Same Day	48-hr	72-hr				

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Project: LDS F1-27,28

Sample 1
X002010-01 (Soil)
2/1/2010 3:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

BTEX by EPA 8260B

Benzene	ND	0.00400	mg/kg	1	0B03003	02/03/2010	02/04/2010
Toluene	ND	0.00400	"	"	"	"	"
Ethylbenzene	ND	0.00400	"	"	"	"	"
o-Xylene	ND	0.00400	"	"	"	"	"
m,p-Xylene	ND	0.00800	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	85.7 %	77.6-134	"	"	"
Surrogate: Toluene-d8	92.4 %	81.4-121	"	"	"
Surrogate: 4-Bromofluorobenzene	91.5 %	74.7-123	"	"	"

TPH-Carbon Chain by EPA Method 8015M

Gasoline (C6-C10)	ND	50.0	mg/kg	1	0B03004	02/03/2010	02/04/2010
Diesel (C10-C28)	ND	50.0	"	"	"	"	"
Residual Range Organics (C28-C36)	ND	200	"	"	"	"	"
TPH - Carbon Chain Total	ND	50.0	"	"	"	"	"

Surrogate: o-Terphenyl	101 %	65-140	"	"	"
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Project: LDS F1-27,28

Sample 2
X002010-02 (Soil)
2/1/2010 3:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

BTEX by EPA 8260B

Benzene	ND	0.00400	mg/kg	1	0B03003	02/03/2010	02/04/2010	
Toluene	ND	0.00400	"	"	"	"	"	
Ethylbenzene	ND	0.00400	"	"	"	"	"	
o-Xylene	ND	0.00400	"	"	"	"	"	
m,p-Xylene	ND	0.00800	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	83.8 %	77.6-134			"	"	"	
Surrogate: Toluene-d8	93.3 %	81.4-121			"	"	"	
Surrogate: 4-Bromofluorobenzene	93.7 %	74.7-123			"	"	"	

TPH-Carbon Chain by EPA Method 8015M

Gasoline (C6-C10)	ND	50.0	mg/kg	1	0B03004	02/03/2010	02/04/2010	
Diesel (C10-C28)	ND	50.0	"	"	"	"	"	
Residual Range Organics (C28-C36)	ND	200	"	"	"	"	"	
TPH - Carbon Chain Total	ND	50.0	"	"	"	"	"	

Surrogate: o-Terphenyl	117 %	65-140			"	"	"	
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Sample 3
X002010-03 (Soil)
2/1/2010 3:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

BTEX by EPA 8260B

Benzene	ND	0.00400	mg/kg	1	0B03003	02/03/2010	02/04/2010
Toluene	ND	0.00400	"	"	"	"	"
Ethylbenzene	ND	0.00400	"	"	"	"	"
o-Xylene	ND	0.00400	"	"	"	"	"
m,p-Xylene	ND	0.00800	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	86.6 %	77.6-134			"	"	"
Surrogate: Toluene-d8	94.1 %	81.4-121			"	"	"
Surrogate: 4-Bromofluorobenzene	91.2 %	74.7-123			"	"	"

TPH-Carbon Chain by EPA Method 8015M

Gasoline (C6-C10)	ND	50.0	mg/kg	1	0B03004	02/03/2010	02/04/2010
Diesel (C10-C28)	ND	50.0	"	"	"	"	"
Residual Range Organics (C28-C36)	ND	200	"	"	"	"	"
TPH - Carbon Chain Total	ND	50.0	"	"	"	"	"

Surrogate: o-Terphenyl	106 %	65-140			"	"	"
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Sample 4
X002010-04 (Soil)
2/1/2010 3:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

BTEX by EPA 8260B

Benzene	ND	0.00400	mg/kg	1	0B03003	02/03/2010	02/04/2010
Toluene	ND	0.00400	"	"	"	"	"
Ethylbenzene	ND	0.00400	"	"	"	"	"
o-Xylene	ND	0.00400	"	"	"	"	"
m,p-Xylene	ND	0.00800	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	88.2 %	77.6-134			"	"	"
Surrogate: Toluene-d8	91.4 %	81.4-121			"	"	"
Surrogate: 4-Bromofluorobenzene	93.7 %	74.7-123			"	"	"

TPH-Carbon Chain by EPA Method 8015M

Gasoline (C6-C10)	ND	50.0	mg/kg	1	0B03004	02/03/2010	02/04/2010
Diesel (C10-C28)	ND	50.0	"	"	"	"	"
Residual Range Organics (C28-C36)	ND	200	"	"	"	"	"
TPH - Carbon Chain Total	ND	50.0	"	"	"	"	"

Surrogate: o-Terphenyl	97.5 %	65-140			"	"	"
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Project Number: [none]
Project: LDS F1-27,28

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 0B03004 – Default Prep GC-Semi

Blank (0B03004-BLK1)

Prepared: 02/03/2010 Analyzed: 02/04/2010

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	"

Surrogate: o-Terphenyl 52.1 g 50.0 104 65-140

LCS (0B03004-BS1)

Prepared: 02/03/2010 Analyzed: 02/04/2010

Gasoline (C6-C10)	ND	50.0	mg/kg			65-140
Diesel (C10-C28)	425	50.0	"	500	85.1	60-140

Surrogate: o-Terphenyl 55.9 g 50.0 112 65-140

LCS Dup (0B03004-BSD1)

Prepared: 02/03/2010 Analyzed: 02/04/2010

Gasoline (C6-C10)	ND	50.0	mg/kg			65-140	25
Diesel (C10-C28)	433	50.0	"	500	86.5	60-140	1.70 25

Surrogate: o-Terphenyl 56.9 g 50.0 114 65-140

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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 OB03003 – EPA 5030B

Blank (OB03003-BLK1)

Prepared: 02/03/2010 Analyzed: 02/04/2010

Benzene	ND	0.004	mg/kg
Toluene	ND	0.004	"
Ethylbenzene	ND	0.004	"
o-Xylene	ND	0.004	"
m,p-Xylene	ND	0.008	"

Surrogate: 1,2-Dichloroethane-d4	54.6	ug/L	62.5	87.4	77.6-134
Surrogate: Toluene-d8	56.7	"	62.5	90.7	81.4-121
Surrogate: 4-Bromofluorobenzene	58.6	"	62.5	93.8	74.7-123

LCS (OB03003-BS1)

Prepared: 02/03/2010 Analyzed: 02/04/2010

Benzene	0.24	0.004	mg/kg	0.200	121	75.2-128
Toluene	0.18	0.004	"	0.200	92.0	76.3-130
Surrogate: 1,2-Dichloroethane-d4	55.1		ug/L	62.5	88.1	77.6-134
Surrogate: Toluene-d8	59.1		"	62.5	94.6	81.4-121
Surrogate: 4-Bromofluorobenzene	59.4		"	62.5	95.0	74.7-123

LCS Dup (OB03003-BSD1)

Prepared: 02/03/2010 Analyzed: 02/04/2010

Benzene	0.24	0.004	mg/kg	0.200	119	75.2-128	1.62	200
Toluene	0.18	0.004	"	0.200	88.3	76.3-130	4.11	200
<hr/>								
Surrogate: 1,2-Dichloroethane-d4	53.2		ug/L	62.5	85.1	77.6-134		
Surrogate: Toluene-d8	55.1		"	62.5	88.2	81.4-121		
Surrogate: 4-Bromofluorobenzene	57.9		"	62.5	92.6	74.7-123		

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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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