

**RECEIVED**  
 DEC 18 2012  
**COGCC**



Certificate of Analysis

**LAFAYETTE AREA LABORATORY**  
 4780 N.E. EVANGELINE THRUWAY  
 CARENCRO, LA 70520  
 PHONE (337) 896-3055  
 FAX (337) 896-3077

Number: 2030-2012120090-003A

For: Taani Martinez  
 Noble Energy, Inc.  
 800 Airport Road  
 Rifle, Colorado 81650

Sample ID:  
 Station Name: SGV 8-C  
 Station Number:  
 Project / Station Location: Federal 8-32B  
 Project Number:  
 Project Name:  
 Sampled by: SD-Noble

Report Date: 12/11/2012  
 Sample Of: Gas  
 Sample Date: 12/05/2012 @ 15:00  
 Sample Pres (psig): N.G. psi  
 Sample Temp (D.F.): N.G. °F  
 Sample Point:  
 PO / Ref. No:  
 Cylinder No: Bag

SULFUR ANALYSIS  
 Method: GPA-2199

SULFIDES	ppm (wt.)	MERCAPTANS	ppm (wt.)	DiSULFIDES	ppm (wt.)
Hydrogen	48.2	Methyl	<1.0	Carbon	<1.0
Carbonyl	N/D	Ethyl	<1.0	DiMethyl	N/D
DiMethyl	N/D	Isopropyl	N/D	Methyl Ethyl	N/D
Methyl Ethyl	N/D	n-Propyl	N/D	DiEthyl	N/D
DiEthyl	N/D	Isobutyl	N/D	Di-iso-propyl	N/D
Di-iso-propyl	N/D	sec-Butyl	N/D	Di-n-Propyl	N/D
Di-n-Propyl	N/D	tert-Butyl	N/D	Di-iso-butyl	N/D
Di-iso-butyl	N/D	n-Butyl	N/D	Di-sec-Butyl	N/D
Di-sec-Butyl	N/D	Isoamyl	N/D	Di-tert-Butyl	N/D
Di-tert-Butyl	N/D	pri-Amyl	N/D	Di-n-Butyl	N/D
Di-n-Butyl	N/D	n-Amyl	N/D	Unknown Disulfides	N/D
Unknown Sulfides	N/D				
		OTHER			
Thiophene	N/D ppm(wt.)				
Thiophane	N/D ppm(wt.)				
<b>TOTAL SULFUR</b>	<b>45.8 ppm(wt.)</b>				
	0.00458 weight %				
	1.724 grains/100 cu.ft.				

REMARKS:

Note: N/D = None Detected  
 <1.0 = Detected @ unquantifiable level below 1.0 ppm.

*Brian H. [Signature]*  
 SPL Data Reviewer