



RELIANCE LABORATORIES, INC.

ENVIRONMENTAL ANALYSTS AND CONSULTANTS

BRIDGEPORT, WV

www.RelianceLabs.net

MARTINSBURG, WV

Certifications:

WV Department of Health #: 00354, 00433 | WV Department of Environmental Protection #: 158, 181
MD Department of Environment #: 336, 337 | US Environmental Protection Agency #: WV00042, WV00901

HALL DRILLING
981 E. WASHINGTON AVE.

Wednesday, April 10, 2013

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ELLENBORO, WV 26346-

Lab Number: 193161-2013-W Sample ID: TECH SERVICE CENTER 3H

Parameter	Value	Units	Method	Date/Time Analyzed	Analyst	MDL	MCL
Analyte Group: Inorganics							
Total Lead	ND	mg/l	EPA 200.7	3/25/2013	11:08 T.Hanshaw	0.005	
pH	# 6.09	S.U.	SM4500H+B	3/27/2013	13:32 K.Davis		
Total Iron	113	mg/l	EPA 200.7	3/25/2013	11:08 T.Hanshaw	0.004	
Total Chloride	78976	mg/l	SM 4500CLB	3/27/2013	9:15 K.Davis	2.52	
Total Surfactant	12.8	mg/l	SM5540C	3/20/2013	15:00 K.Davis	0.02	
Total Aluminum	0.85	mg/l	EPA 200.7	3/25/2013	11:08 T.Hanshaw	0.009	
Total Dissolved Solids	127566	mg/l	SM 2540C	3/26/2013	10:15 C.Tomaro	10	
Total Suspended Solids	778	mg/l	SM2540D	3/26/2013	10:15 C.Tomaro	4	
Total Cadmium	ND	mg/l	EPA 200.7	3/25/2013	11:08 T.Hanshaw	0.002	
Total Chromium	ND	mg/l	EPA 200.7	3/25/2013	11:08 T.Hanshaw	0.006	
Total Barium	533	mg/l	EPA 200.7	3/25/2013	11:08 T.Hanshaw	0.003	
Total Manganese	6.87	mg/l	EPA 200.7	3/25/2013	11:08 T.Hanshaw	0.007	
Total Arsenic	0.78	mg/l	EPA 200.7	3/25/2013	11:08 T.Hanshaw	0.007	
Total Sodium	26900	mg/l	EPA 200.7	3/25/2013	11:08 T.Hanshaw	0.011	
Total Sulfate	250	mg/l	D516-02	3/22/2013	10:00 K.Davis	0.59	

Remarks:

Date Sample Collected: 3/20/2013 11:00
Sample Submitted By: J.STRICKLER
Date Sample Received: 3/20/2013 14:25

ND = Not Detected at the MDL or MRL

MDL - Minimum Detectable Limit

MCL - Maximum Contaminant Level, USEPA Regulated

MRL - Minimum Reporting Limit

[MCL] = Maximum Contaminant Level, Non-Regulated

*Method Code: STANDARD METHODS 19TH ED; US EPA METHODS FOR THE CHEMICAL ANALYSIS OF WATER AND WASTES, Rev. 83; US EPA METHODS FOR THE DETERMINATION OF METALS IN ENVIRONMENTAL SAMPLES, May 1994; TEST METHODS FOR EVALUATING SOLID WASTE, SW-846, 3rd ED; USEPA Manual for Certification of Laboratories Analyzing Drinking Water, 5th ED. In accordance with EPA Regulations, all reports, including raw data and quality control data, are maintained by the laboratory for a minimum of 5 years.

NOTE: #Holding time exceeded for this analysis.

Office of Oil & Gas

MAY - 6 2013

RLL001



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Lab Number: 193161-2013-W Sample ID: TECH SERVICE CENTER 3H

Parameter	Value	Units	Method	Date/Time Analyzed	Analyst	MDL	MCL
Analyte Group: <u>Total Petroleum Hydrocarbons</u>							
TPH - DRO	ND	mg/l	8015B/3535	3/26/2013	11:24 M.Coffman	1	
TPH - ORO	20.9	mg/l	8015B/3535	3/26/2013	11:24 M.Coffman	1	
o-Terphenyl (Surrogate)	81.3	%	8015B	3/26/2013	11:24 M.Coffman		
Benzene	0.1421	mg/l	8021B/5030	3/25/2013	13:56 M.Coffman	0.0007	
Ethylbenzene	0.0297	mg/l	8021B/5030	3/25/2013	13:56 M.Coffman	0.0014	
Toluene	0.3129	mg/l	8021B/5030	3/25/2013	13:56 M.Coffman	0.002	
TPH - GRO	23.7	mg/l	8015B/5030	3/25/2013	11:54 M.Coffman	0.12	
Xylene	0.4075	mg/l	8021B/5030	3/25/2013	13:56 M.Coffman	0.003	
4-Bromochlorobenzene (Surrogate)	99.1	%	8021B/8015B	3/25/2013	13:56 M.Coffman		

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