



Ohio Department of Natural Resources

JOHN R. KASICH, GOVERNOR

DAVID MUSTINE, DIRECTOR

May 3, 2011

91 7108 2133 3932 1019 9118

John F. Husted, Chief
Ohio Department of Natural Resources
Division of Mineral Resources Management
2045 Morse Road, Building H-2
Columbus, OH 43229
Phone: (614) 265-6633 Fax: (614) 265-7999



ORDER BY THE CHIEF

ORDER NO. 2011-15

TO: D & L Energy, Inc.
2761 Salt Springs Road
Youngstown, Ohio 44509

RE: Permit No. 3127
Well No. 1
Lease: Northstar
SWIW: 10
County: Mahoning
Township: Youngstown

SUBJECT: INCREASE IN MAXIMUM ALLOWABLE INJECTION PRESSURE

The Chief of the Division of Mineral Resources Management ("Division") having given due consideration to the matter contained herein makes the following Findings and issues the following Orders pursuant to Sections 1509.22 (D) of the Ohio Revised Code and 1501:9-3-07 (D) (2) of the Ohio Administrative Code:

FINDINGS:

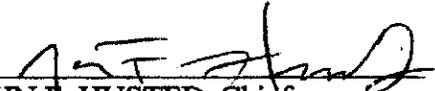
- (1) On July 12, 2010, the Division granted permission to convert the Northstar #1 (Permit #3127) in Mahoning County to a saltwater injection well.
- (2) On May 3, 2011, D & L Energy, Inc. sent a laboratory analysis of the brine from the **Northstar #1 injection well facility** and requested the maximum allowable injection pressure be modified based on the analysis of the actual specific gravity of the injection fluid.

ORDERS:

- (1) Based on the actual specific gravity analysis submitted by **D & L Energy, Inc.** the maximum allowable injection pressure for the Northstar #1 (Permit #3127) shall be **2500 psi**.
- (2) **The specific gravity of the injection fluid shall be tested by the operator daily and tested by an independent laboratory at least once each quarter. Both daily and quarterly test results shall be submitted to the Division with the operator's annual report.**
- (3) **D & L Energy, Inc.** shall use prudent management practices to ensure the **specific gravity on the injection fluid is 1.03 or less**. If at any time the specific gravity of the injection fluid exceeds 1.03, **D & L Energy Inc.** shall immediately cease injection and contact the Division. If **D & L Energy, Inc.** does not lower the specific gravity of the injectate to 1.03 or below within 48 hours, this Order is hereby revoked and the maximum allowable injection pressures shall revert back to **2250 psi** for the Northstar #1. During the 48-hour period after the specific gravity is found to exceed 1.03, **D & L Energy, Inc.** may inject into the referenced well at the lower pressures as specified in this paragraph.
- (4) If this Order is revoked by virtue of the operator's failure to maintain an injectate specific gravity of 1.03 or less, the operator may at any time request that the maximum allowable injection pressures of this Order be reinstated after the Division verifies the specific gravity of the injection fluid has returned to 1.1 or less.

5-3-11

Issue Date



JOHN F. HUSTED, Chief
Division of Mineral Resources Management

Addressee will be afforded an informal hearing, if requested, pursuant to Section 1509.06 of the Ohio Revised Code. If an informal hearing is desired, contact John F. Husted, Chief, Division of Mineral Resources Management, at (614) 265-6893.

Addressee is hereby notified that this action is final and effective and may be appealed to the Oil and Gas Commission pursuant to Section 1509.36 of the Ohio Revised Code. The

May 3, 2011

Page 3

appeal must be in writing and must set forth the orders complained of and the grounds upon which the appeal is based. Such appeal must be filed with the Oil and Gas Commission at the following address: Oil and Gas Commission, Linda Osterman, 2045 Morse Road, F-2, Columbus, Ohio 43229, within thirty (30) days after the receipt of this order.

In addition, notice of the filing of the appeal must be filed with John F. Husted; Chief of the Division of Mineral Resources Management, Building H-2, 2045 Morse Road, H-2, Columbus, Ohio 43229-6693, within three (3) days after the appeal is filed with the Oil and Gas Commission.

cc: Carl Roberts, Mineral Resources Inspector
Surety File
Well File
Legal File

CERTIFIED MAIL NO. 91 7108 2133 3932 1019 9118



D&L ENERGY, INC.

2761 Salt Springs Road, Youngstown, Ohio 44509
330-792-9524 888-343-4427 Fax 330-792-9584
www.dandleenergy.com

March 14, 2011

Tom Tomastik
Division of Natural Resources
2045 Morse Rd. Bldg H3
Columbus, OH. 43229

Tom:

Please find a report from Cardinal Laboratory for North Star #1

Thank You

Ben Lupu
Ben Lupu

*Ma King Co.
SWW #10
Permit # 3127*

RECEIVED
MAR 15 2011
DIVISION OF MINERAL
RESOURCES MANAGEMENT

CEL Cardinal Laboratories, Inc.

2870 Salt Springs Road • Youngstown, Ohio 44509
Ph: (330) 797-8844 • Fax: (330) 797-3264 • 1-800-523-0347
E-mail: cel@cardinalenvirolabs.net

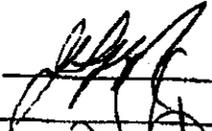
Laboratory Analysis Report

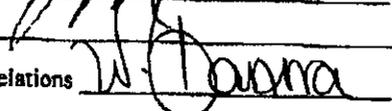
Client: NORTHSTAR WELL 1 c/o D & L ENERGY Ann: MIKE McKENZIE 2761 SALT SPRINGS RD YOUNGSTOWN, OHIO 44509	Lab Number: 211030401 Sample ID: NORTH STAR #1
Date Sampled: 3/4/2011 Time Sampled: Date Received: 3/4/2011 Report Date: 3/10/2011 Comments:	Sample Description: Sampler Name: ROB MARK Sample Matrix: Aqueous PO#:

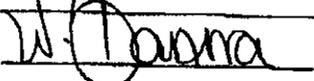
Analyte	Result	Unit	Detection Limit	Method	Analysis Date	Analyst
Specific Gravity	1.03			SM2710-F	3/4/2011	MR

BDL = Below Detection Limit

Results approved by:

John Pflugh, Lab Manager 

Tricia Presco, Chemist 

Wendy Harna, Customer Relations 

Ohio EPA Drinking Water Certification: 1549, 898
Pennsylvania Laboratory Registration: 68-948



CHAIN OF CUSTODY

CARDINAL ENVIRONMENTAL LABORATORIES
2870 SALT SPRINGS ROAD, YOUNGSTOWN, OH 44519
PHONE: (330) 797-8844 FAX: (330) 797-3264
E-mail: cel@cardinalenvirohlab.com

Billing Information (if different from Customer Information)

Client Name _____ Address _____ City/State _____ Zip _____
PO# _____

CUSTOMER INFORMATION

Company Name X NORTH STAR DISPOSAL SERVICES
Address 2761 SALT SPRINGS RD
City/State/Zip YOUNGSTOWN OHIO 44509
Contact Person BEN LUB / Bob MARZ
Phone _____ Fax 330-870-1213

ANALYSIS REQUIRED

CEL #	Customer Sample ID	Date Collected	Time Collected	GRAV/Comp.	Matrix	No. Cont.	Remarks	Date/Time	Received By	Date/Time	Received By	Date/Time	
	011030401	X	10:34				X Spec. Grav	3/4/11 10:30					
<p>Collector's Name <u>Rob</u> <u>MARK</u> Collector's Signature _____ Witnessed By _____ Relinquished By _____ Date/Time _____ Received By _____ Date/Time _____</p>													
<p>FOR DRINKING WATER COPY SENT TO EPA? Yes No PWS ID # _____ County _____</p>													
P.A. DEP. Yes No				D.E.P. Reportable: _____				P.A. Lab Code 88-00948					
Received for Laboratory Use				Method of Shipment				Date/Time		Cooler Temp		Remarks	
[Signature]				[Signature]				3-4-11		3-4-11			

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E-mail: cel@cardinalenvirolabs.net

Laboratory Analysis Report

Client: D & L ENERGY
Attn: KIM LITTLE
2761 SALT SPRINGS RD
YOUNGSTOWN, OHIO 44509

Lab Number: 211042507
Sample ID: NORTHSTAR DISP

Date Sampled:
Time Sampled:
Date Received: 4/25/2011
Report Date: 4/29/2011

Sample Description:
Sampler Name:
Sample Matrix: Aqueous
PO#:

Comments:

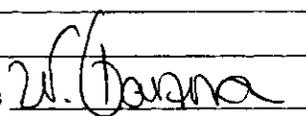
Analyte	Result	Unit	Detection Limit	Method	Analysis Date	Analyst
Chloride	16500	mg/L	1.0	SM4500-Cl-B	4/26/2011	MR
pH	6.38	S.U.		SM4500 H+B	4/26/2011	MR
Specific Gravity	1.01			SM2710-F	4/25/2011	MR
Total Dissolved Solids	27520	mg/L	1.0	SM2540-C	4/26/2011	MR/DT
Total Suspended Solids	326	mg/L	5.0	SM2540 D	4/28/2011	KH

BDL = Below Detection Limit

Results approved by:

John Pflugh, Lab Manager _____

Tricia Presco, Chemist _____

Wendy Hanna, Customer Relations  _____

Ohio EPA Drinking Water Certification: 1549, 898

Pennsylvania Laboratory Registration: 68-948

Lab Number: 211042507

