

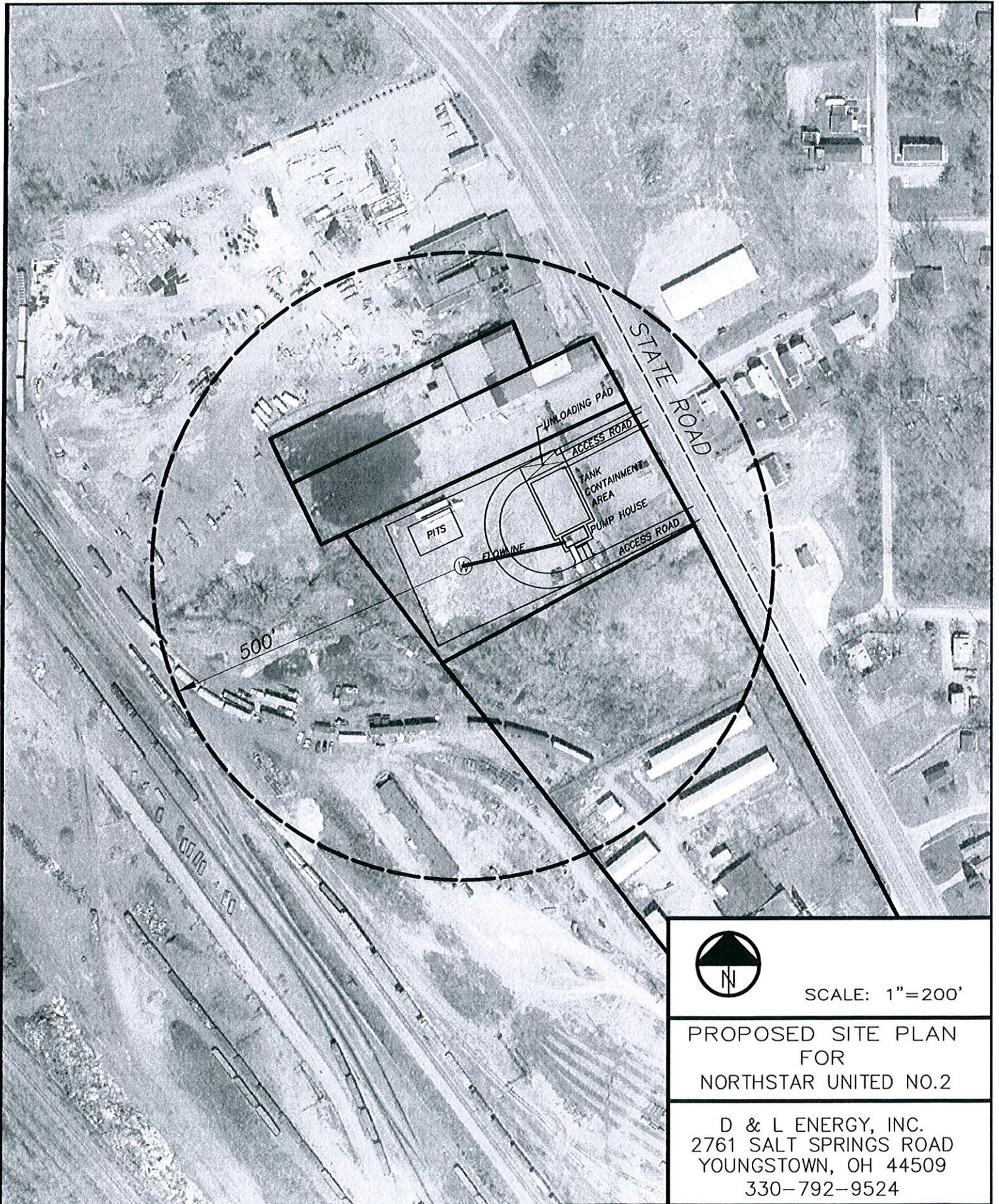
**APPLICATION CHECKLIST**

Trumbull Co. Liberty Twp.  
 New well, SWW # 17, Permit # 4043  
 Knox - Mt. Simon Ss.

	Date	Initials
Enter on Agenda	5/27/11	DR
Completeness Review	6/1/11	DR
Date - Time Stamp	5/24/11	DR
Area of Review	6/7/11	DR
Site Evaluation	6/14/11	DR
Permitting Section	6/24/11	DR
Memo to Inspector	6/6/11	DR
Public Notice	6/6/11	DR
Letter	6/6/11	
Date Run	6/9/11	
15 Days	6/24/11	
Review Public Notice	6/6/11	DR
Affidavit of Notification	6/6/11	DR
Objections Received	6/28/11	DR
Public Hearing Date	NA	DR
Chief's Order, if Required	NA	DR
Schematic	6/7/11	DR
Plot on Map	6/6/11	DR
Review by Geologist	6/28/11	DR
Permit Conditions (Same date as permit)	6/28/11	DR
Enter on Computer (Same or later date than Chief's Order)	6/28/11	DR
Enter on Master List	6/6/11	DR
EPA Form	6/7/11	DR
Mail Permit	6/28/11	DR
Update Agenda	6/28/11	DR
File	6/28/11	DR

**RECORD OF CONVERSATION**

\* Need urban requirements - talked to Nick at  
 D&C 6/1/2011 will also need facility sketch



**INTER-OFFICE MEMO**

**TO: Steve Ochs, Mineral Resources Inspector**  
**FROM: Tom Tomastik, Geologist**  
**SUBJECT: Application and Site Evaluation for a SWIW permit**  
**DATE: June 6, 2011**

The Division of Mineral Resources Management has received an application for the proposed saltwater injection well as described below:

**OPERATOR: D & L Energy, Inc.**  
**WELL NAME & NUMBER: Northstar United #2**  
**PERMIT NUMBER: New well, SWIW #17**  
**LOCATION: 885' SL & 6019' WL of Liberty Twp., Trumbull County**  
**PROPOSED INJECTION ZONE: Knox through Mt. Simon Sandstone**  
**DATE RECEIVED: May 24, 2011**

Please inspect proposed site and evaluate for any potential water wells or surface bodies of water within close proximity that would require any additional permit conditions for the construction of the SWIW surface facilities. Please e-mail me a copy of the site inspection report with any recommendations.

OPERATOR D&L Energy Inc.

COUNTY Trumbull

TOWNSHIP Liberty

P & A	FM	Permit Number	Casing Program / Comment	Well Log and/or Method of Plug
<input type="checkbox"/>	<u>W. Nox - Mt Summit</u>	<u>Newwell</u>	<u>Proposed casing program</u>	
			<u>11 3/4" - 100'</u>	
			<u>9 3/4" - 1010' - cemented to surface</u>	
<input type="checkbox"/>	<u>CL</u>	<u>3221</u>	<u>7" - 8215' cement w/ 145 sacks</u>	
<input type="checkbox"/>	<u>CL</u>	<u>3793</u>	<u>* All four other wells in ADR are Clinton wells and do not penetrate the proposed injection zones.</u>	
<input type="checkbox"/>	<u>CL</u>	<u>2980</u>		
<input type="checkbox"/>	<u>CL</u>	<u>2983</u>		
<input type="checkbox"/>				

NOTE: Proposed injection well should be circumscribed with appropriate radius and all wells clearly labeled and identified. A legend depicting color code is required.





Latitude: 41° 08' 10.16"

NORTH: 540550

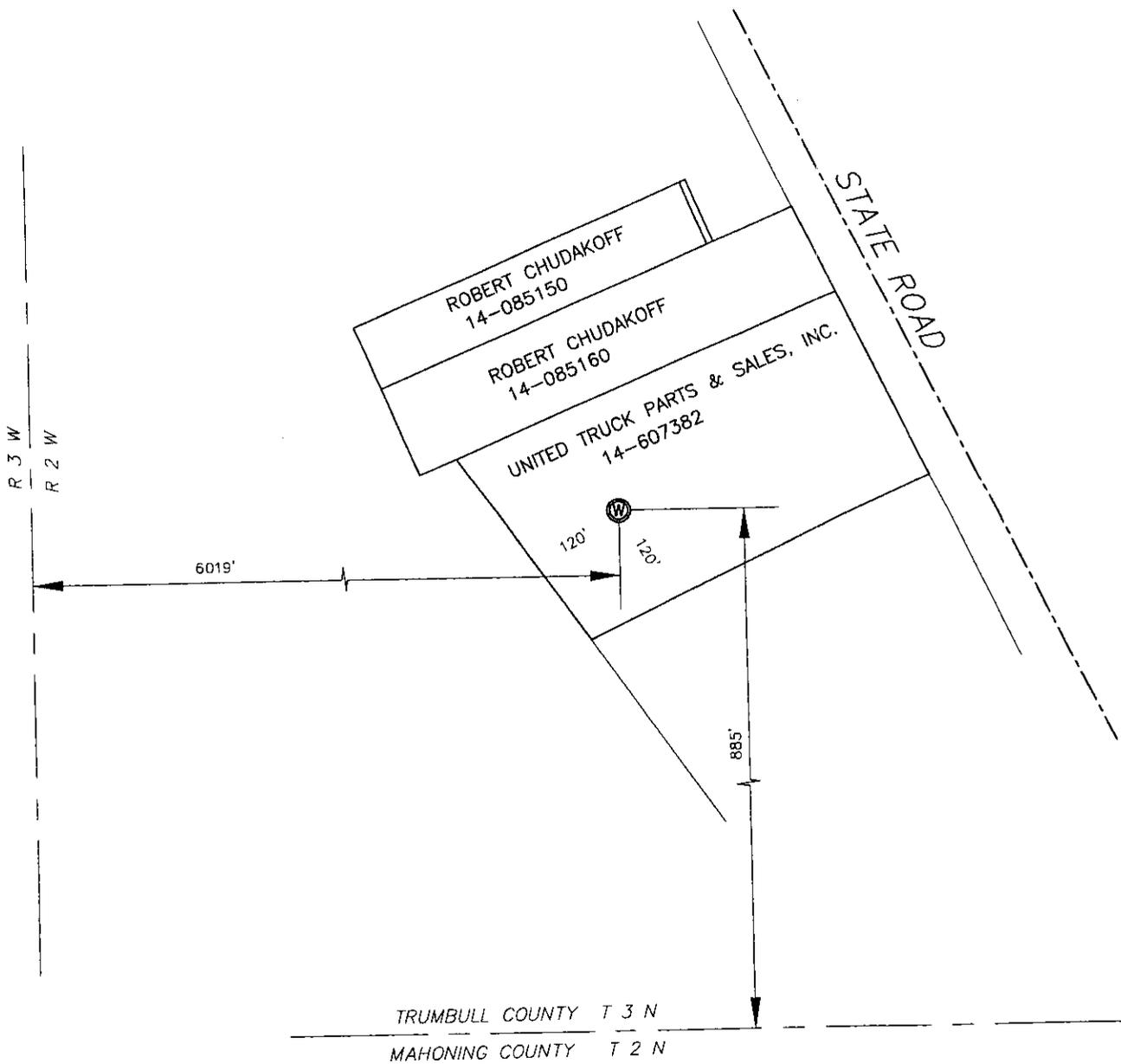
Longitude: 80° 41' 19.77"

EAST: 2467349

# WELL LOCATION PLAT

### LEGEND:

- ⊙ PROPOSED BRINE WATER INJECTION WELL NEW LOCATION



TRUMBULL COUNTY T 3 N  
 MAHONING COUNTY T 2 N

Surveyor or Engineer <b>GARY TANERI</b>	Phone # 330-207-5502	Date MAY 13, 2011	Scale 1"=200'	Acreage 5.0
Lat. & Long Metadata Method GPS	Accuracy 3 ft.	Datum NAD83	Elevation Metadata Method USGS	Accuracy 10 ft.
Survey Date 5/3/11	Applicant / Well Operator Name D & L ENERGY, INC.	Well(Farm) Name NORTHSTAR UNITED	Well # 2	
Address 2761 SALT SPRINGS ROAD YOUNGSTOWN, OH 44509	County TRUMBULL	Municipality CITY OF GIRARD		
Surface Landowner UNITED TRUCK PARTS & SALES, INC.	USGS 71/2 Quadrangle Map Name GIRARD	Surface Elevation 885 ft.	Anticipated Total Depth 9300 ft.	
Surface Lessor D & L ENERGY, INC.	Angle & Course of Deviation (Drilling) VERTICAL			

STATE OF OHIO  
 DEPARTMENT OF NATURAL RESOURCES  
 MINERAL RESOURCES MANAGEMENT  
 COLUMBUS, OH 43224



*[Signature]*  
 Gary Richard Taneri  
 Registered Professional Surveyor No. 7672  
 Date 5/18/11



# Injection Wells

## Checklist of Missing Items for Urbanized Area Applications

Operator Name: D & L Energy Inc

Well Name/Well Number:

Application Number:

Date Received:

- Incorrect Fee**  
(Note: The following fees went into effect September 29, 2005. **\$500** for a well located in a township with a population between 5,001 and 9,999; **\$750** for a well located in a township with a population between 10,000 and 14,999; **\$1,000** for a well located in a township with a population exceeding 15,000; and **\$1,000** for a well located in a municipal corporation).
- Aerial Map**  
The aerial map must be at a scale of 1 inch to 100 feet or 1 inch to 200 feet and include the following items: the location of the tank battery, access road, gas sales line and a 500 foot circle around the proposed well location.
- Aerial Map with Topographic Contours**  
This is in addition to the aerial map. (Note: the mapping requirements are in 1501:9-1-02 (5)(f). If not available, please state in writing).
- Name of Urbanized Area on Surveyor's Map**
- Incorrect Certification on Surveyor's Map**  
The certification on the map should state: The location of all buildings, public roads, railroads and streams within two hundred (200) feet of the proposed well site, and their distances from the proposed well site have been shown.
- Other**  
Notification letters to affected landowners (500 feet from well site)  
and notification letters to affected municipal or township officials.  
Records of water sampling taken 300 feet from proposed well sites.



# Proof Sheet

APPL NUMBER	aPATT019739
OWNER NUMBER	2651
OWNER NAME	D & L ENERGY INC
EXISTING WELL	0
API PERMIT NO	
APPL TYPE	SWIW
TYPE OF WELL	SWD
VARIANCE REQUEST	
WELL NAME	NORTHSTAR UNITED (Swuot-17)
WELL NUMBER	2
PREV/PROPOSED TD	9300
DRILL UNIT ACRES	5
TYPE OF TOOL	RTAF
WELL CLASS	
FIRE PHONE	( ) - 911
MEDICAL PHONE	( ) - 911
COUNTY CODE	155
COUNTY NAME	TRUMBULL
COAL (Y=-1/N=0)	-1
CIVIL TOWNSHIP	LIBERTY
SURF QUAD	GIRARD
Nad 27 SURF ORIG X	2498807
Nad 27 SURF ORIG Y	540510
GROUND ELEVATION	885
SURF SEC	
SURF LOT	2
SURF QTR TWP	
SURF ALLOT	
SURF TRACT	
SURF FRACTION	

URBANIZED AREA ?	<input checked="" type="checkbox"/>
NAME	GIRARD CITY
DISPOSAL PLAN 1	ND
DISPOSAL PLAN 2	<input type="checkbox"/>
DISPOSAL PLAN 3	<input type="checkbox"/>
DISPOSAL PLAN 4	<input type="checkbox"/>
DISPOSAL PLAN 5	<input type="checkbox"/>
MP Check #	0

## PROPOSED FORMATIONS

KNOX-PRECAMBRIAN

TARG CIVIL TWP	
TARG QUAD	
Nad 27 TARG ORIG X	
Nad 27 TARG ORIG Y	
TARG ELEV	0
TARG SECTION	
TARG LOT	
TARG QTR TWP	
TARG ALLOT	
TARG TRACT	
TARG FRACTION	

# Proof Sheet

## SURFACE FOOTAGE

## TARGET FOOTAGE

885' SL & 6019' WL of  
Liberty Twp.

## CASING PROGRAM

## SPECIAL CONDITIONS/COMMENTS

09 9 3/4 1010  
32 7 8215  
40 4 1/2 15

Class II Drilling and  
Construction conditions

COMPLETION DT

\_\_\_\_\_

MINES APPROVAL

5/24/2011

AFFIDAVIT APPROV

\_\_\_\_\_

FINAL ENTRY DATE

6/28/2011

*Permit # 4043*



Ohio Department of Natural Resources  
Division of Mineral Resources Management  
2045 Morse Rd. Bldg. H-3 - Columbus OH 43229-6693



*Urbanized Area Permit Conditions*

<b>Application Number</b>	<b>Permit Number</b>	<b>Inspection Date</b>	05/14/11	<b>Modification Date (if applicable)</b>
<b>Company</b>	D & L Energy, Inc.	<b>Lease Name/Well #</b>		Northstar United #2
<b>County</b>	Trumbull	<b>Township</b>		Liberty
<b>Section/Lot</b>	Lot 2	<b>Urban Area</b>		City of Girard
<b>Inspected By</b>				Stephen Ochs
<b>Accompanied By</b>	Nick Paparodis (Company)			

**Directions to Location** From Interstate 80, approximately one mile south (west) on State Road (US 422), access on west side of the road

ITEM	LEASE ROAD, WELL SITE CONSTRUCTION	Comments:
1	<b>Tree/Brush Removal/Disposition</b>	None
2	<b>Topsoil Removal/Stockpiles/Placement</b>	Broken concrete will be removed or stockpiled
3	<b>Erosion/Sediment Control (Silt Fence, Berms)</b>	silt fence on west perimeter
4	<b>Drainage Controls (Diversion Ditches, Culverts, Waterways, Crossings)</b>	none
5	<b>Signage</b>	As required by HB278
6	<b>Apron/Culverts/Road Material</b>	Existing access road
7	<b>Pull Off Area</b>	Well site
8	<b>Parking</b>	Well site
9	<b>GPS - Access Road</b>	N 41.13670 W 80.68772
10	<b>GPS - Well Stake</b>	N 41.13625 W 80.68886
11	<b>GPS - Tank Battery</b>	N 41.13629 W 80.68812

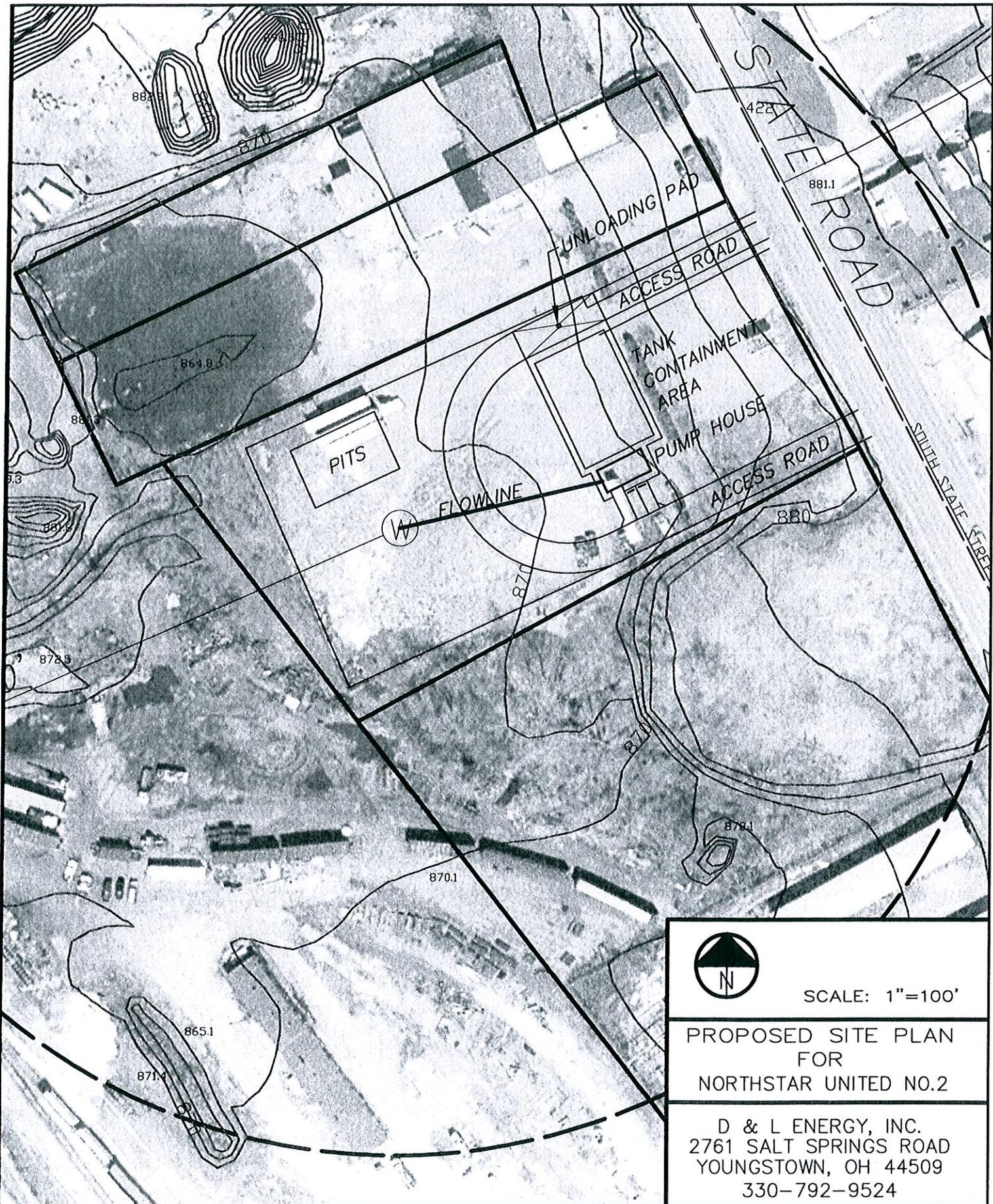
ITEM	DRILLING CONSIDERATIONS	<b>Comments:</b>		
	<b>Noise Mitigation</b>			
12	<b>(Mufflers, Extra Frac Tanks, Tarps)</b>	Appropriate muffler		
13	<b>Rig Type</b>	Fluid rotary		
14	<b>Is a Blow-out Preventor required?</b>	X	<b>Yes</b>	<b>No</b>
	<b>If No, explain:</b>			
	<b>Equipment Placement/ Orientation (Rig/ Frac Tanks/ etc.)</b>	Recommend the rig be placed North/South		
15				
16	<b>Drilling Pits (Placement/Orientation)</b>	Recommend the pits be placed West		
17	<b>Fencing (Pits/Entire Location)</b>	Existing fence around entire location		
18	<b>Flood Plain</b>	Mahoning River		
19	<b>Mine Voids</b>	None		
20	<b>Verify Water Wells Within 300'</b>	None, municipal water supply		
21	<b>Verify Structures Within 500'</b>	Two businesses and two houses		
22	<b>Verify Streams and Drainage</b>	Mahoning River approximately 1730 feet to the West		

ITEM	RESTORATION			
23	<b>Pit Closure – (Standard/ Solidification/ Off-Site Disposal – state time frame)</b>	Once total depth has been reached, the drilling equipment will be removed and pits will be solidified within 14 days.		
24	<b>Site Specific Time Frame For Restoration</b>	All restoration will be completed within three months after drilling is commenced.		
25	<b>Erosion/Sediment Control</b>	Maintain until restoration is completed		
26	<b>Drainage Control</b>	Maintain until restoration is completed		

ITEM	PRODUCTION	<b>Comments:</b>		
27	<b>Is the Access Road Gate required?</b>	X	<b>Yes</b>	<b>No</b>
	<b>If No, explain:</b>			
	<b>Landscaping/Screening (Wellhead, Tank Battery)</b>			
28	<b>(Waiver Attached if applicable)</b>	Existing screening acceptable		
	<b>Fencing (Wellhead, Tank Battery)</b>			
29	<b>(Waiver Attached if applicable)</b>	Existing fence around entire location acceptable		

WAIVERS	<b>Comments:</b>		
<b>Is the Company required to submit a waiver?</b>	<b>Yes</b>	X	<b>No</b>
<b>If yes, submit the following waiver requests:</b>			
<b>Is the Company required to submit revised drawings?</b>	<b>Yes</b>	X	<b>No</b>

**THE FOLLOWING ITEMS HAVE BEEN CHANGED FROM THE ORIGINAL APPLICATION:**



SCALE: 1"=100'

PROPOSED SITE PLAN  
FOR  
NORTHSTAR UNITED NO.2

D & L ENERGY, INC.  
2761 SALT SPRINGS ROAD  
YOUNGSTOWN, OH 44509  
330-792-9524

Latitude: 41 08 10 16

NORTH: 540550

Longitude: 80° 41' 19.77"

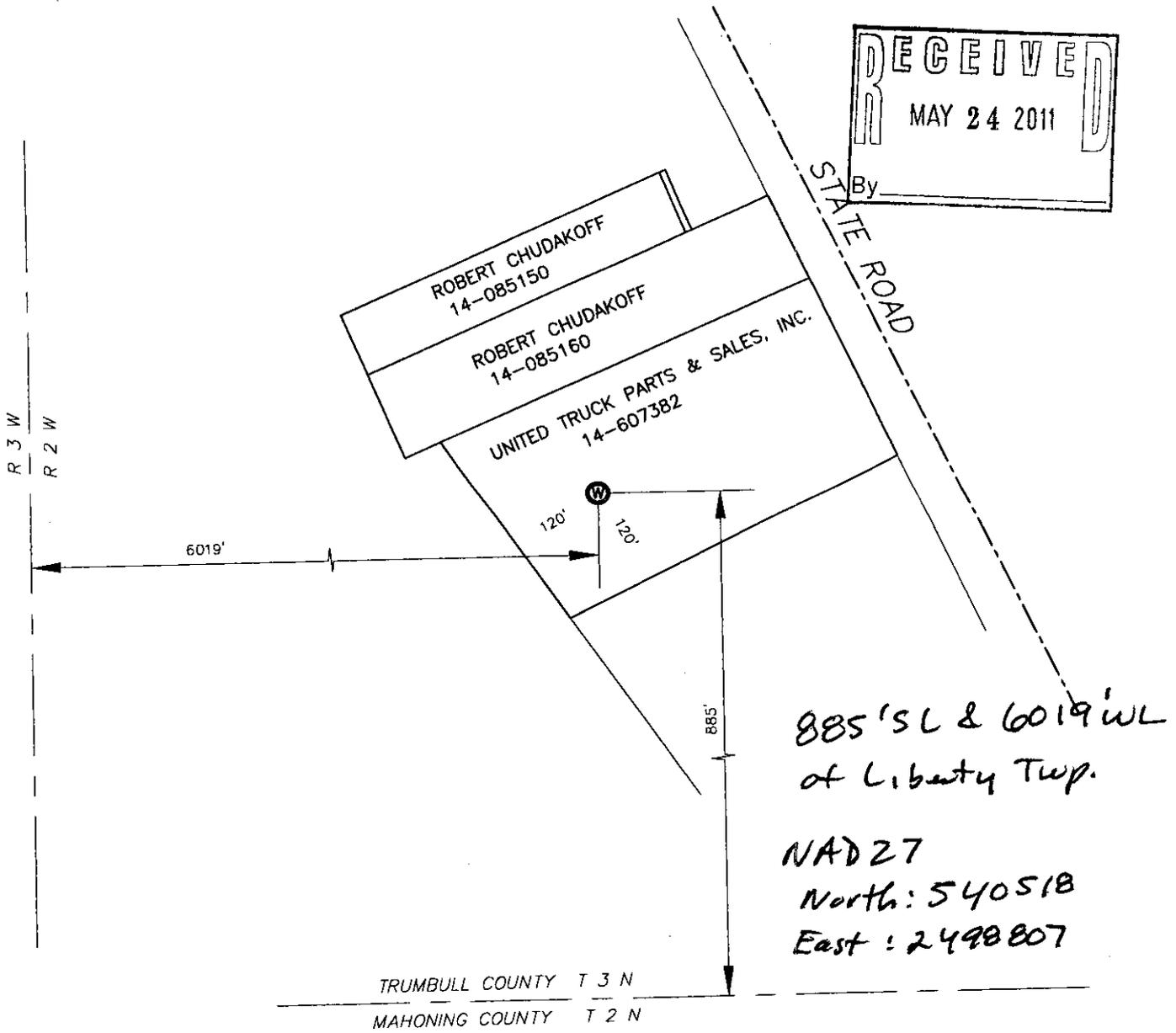
EAST: 2467349

# WELL LOCATION PLAN

### LEGEND:

- ⊙ PROPOSED BRINE WATER INJECTION WELL NEW LOCATION

**RECEIVED**  
MAY 24 2011  
By \_\_\_\_\_



Surveyor or Engineer	GARY TANERI	Phone #	330-207-5502	Date	MAY 13, 2011	Scale	1"=200'	Acres	5.0		
Lat. & Long Metadata Method	GPS	Accuracy	3 ft.	Datum	NAD83	Elevation Metadata Method	USGS	Accuracy	10 ft. Datum NGVD29	Survey Date	5/3/11
Applicant / Well Operator Name	D & L ENERGY, INC.			Well(Farm) Name	NORTHSTAR UNITED		Well #	2			
Address	2761 SALT SPRINGS ROAD YOUNGSTOWN, OH 44509			County	TRUMBULL		Municipality	CITY OF GIRARD			
Surface Landowner	UNITED TRUCK PARTS & SALES, INC.			USGS 71/2 Quadrangle Map Name	GIRARD		Surface Elevation	885 ft.	Anticipated Total Depth	9300 ft.	
Surface Lessor	D & L ENERGY, INC.			Angle & Course of Deviation (Drilling)	VERTICAL		Surface Elevation	885 ft.	Anticipated Total Depth	9300 ft.	

STATE OF OHIO  
DEPARTMENT OF NATURAL RESOURCES  
MINERAL RESOURCES MANAGEMENT  
COLUMBUS, OH 43224



*[Signature]* 5/18/11  
Date  
Gary Richard Taneri  
Registered Professional Surveyor No. 7672





**D & L ENERGY, INC.**  
**LAND DEPARTMENT**

2761 Salt Springs Road, Youngstown, Ohio 44509  
(330) 792-9524 (888) 343-4427 Fax (330) 270-1202  
[www.dandlenergy.com](http://www.dandlenergy.com)

---

June 3, 2011

Sample  
Letter

James J. Melfi, Mayor  
City of Girard  
100 West Main Street  
Girard, OH 44420

Dear Landowner(s):

D & L Energy, Inc. is writing to let you know that we have made an application with the Ohio Department of Natural Resources, Division of Mineral Resources Management, in Columbus, Ohio to drill a salt water injection well (North Star United #2) shown on the enclosed well plat. As required we are notifying all property owners located within 500' of the well site.

If you have any questions concerning this application, please feel free to contact Nicholas Paparodis, V.P. of Land Operations at 330-792-9524.

Very truly yours,

*Kimberly A. Little*

Kimberly Little  
Land Administration

Enclosure

N Star United  
# 2

Landowners  
receiving  
letters

James J. Melfi, Mayor  
City of Girard  
100 West Main Street  
Girard, OH 44420

John M. Penza  
6675 W. Calla Road  
Canfield, OH 44406

John & Bernice Ratliff  
1601 S. State Street  
Girard, OH 44420

Marcus R. Shaw III  
1625 S. State Street  
Girard, OH 44420

Horioaroni LLC  
1631 S. State Street  
Girard, OH 44420

City of Youngstown Ohio  
26 S. Phelps Street  
Youngstown, OH 44503

Warren and Trumbull  
136 South Fifth Street  
Coshocton, OH 43812



**D & L ENERGY, INC.  
LAND DEPARTMENT**

2761 Salt Springs Road, Youngstown, Ohio 44509  
(330) 792-9524 (888) 343-4427 Fax (330) 270-1202  
[www.dandlenergy.com](http://www.dandlenergy.com)

June 3, 2011

RECEIVED

Ohio Department of Natural Resources  
Division of Mineral Resources Management  
2045 Morse Road, Building H-3  
Columbus, OH 43229-6693

JUN 08 2011

RESOURCES MANAGEMENT

Ladies and Gentlemen:

Enclosed please find additional information requested for a Permit to drill a Saltwater Injection Well for North Star United Well #2; North Star Khalil Well #3 and North Star Lucky Well #4.

- Aerial Maps
- Sample Notification Letter the List of Landowners Notified

Water sampling was not required from the proposed well sites because drinking water is provided from a municipal water source.

If you have any questions, please contact Nicholas Paparodis at 330-792-9524, ext. 132.

Very truly yours,

D&L ENERGY, INC.

A handwritten signature in black ink that reads 'Kimberly A. Little'.

Kimberly Little  
Land Administration

/kl

Enclosures



# Ohio Department of Natural Resources

JOHN R. KASICH, GOVERNOR

DAVID MUSTINE, DIRECTOR

## Division of Mineral Resources Management

*John F. Husted, Chief*

2045 Morse Road, Bldg. H-2  
Columbus, OH 43229-6693

Phone: (614) 265-6633 Fax: (614) 265-7998

June 6, 2011

Mr. Nicholas Paparodis  
D & L Energy, Inc.  
2761 Salt Springs Road  
Youngstown, Ohio 44509

**RE: Public Notification for SWIW application for Trumbull County, Liberty Twp.,  
New well, SWIW #17, Northstar United #2 injection well**

Dear Mr. Paparodis:

As outlined in Rule 1501: 9-3-06 (E) (1) of the Ohio Administrative Code, please consider this letter as notification from the Division for you to proceed with the public notice. Enclosed, please find a copy of the notice you will need to have run in the newspaper of general circulation in the area of the proposed injection well. **The public notice must be run for only one day. After running this notice in the newspaper, please send me the original proof-of-publication from the newspaper as soon as possible.**

If you have any questions regarding this matter, please feel free to contact me at (614) 265-1032.

Sincerely,

A handwritten signature in black ink, appearing to read "Tom Tomastik".

Tom Tomastik, Geologist  
Technical Support Services Section  
Division of Mineral Resources Management  
2045 Morse Road, H-3  
Columbus, Ohio 43229-6693

Cc: File



**D & L ENERGY, INC.  
LAND DEPARTMENT**

2761 Salt Springs Road, Youngstown, Ohio 44509  
(330) 792-9524 (888) 343-4427 Fax (330) 270-1202  
[www.dandlenergy.com](http://www.dandlenergy.com)

---

May 19, 2011

Ohio Department of Natural Resources  
Division of Mineral Resources Management  
2045 Morse Road, Building H-3  
Columbus, OH 43229-6693

Ladies and Gentlemen:

Enclosed please find the Application for a Permit to drill a Saltwater Injection Well and the required documentation for the following wells:

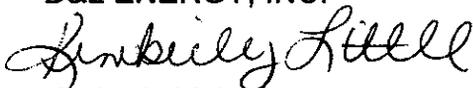
**North Star United Well #2  
North Star Khalil Well #3  
North Star Lucky Well #4**

Also, enclosed is check #21167, in the amount of \$3,000.00.

If you have any questions, please contact Nicholas Paparodis at 330-792-9524, ext. 132.

Very truly yours,

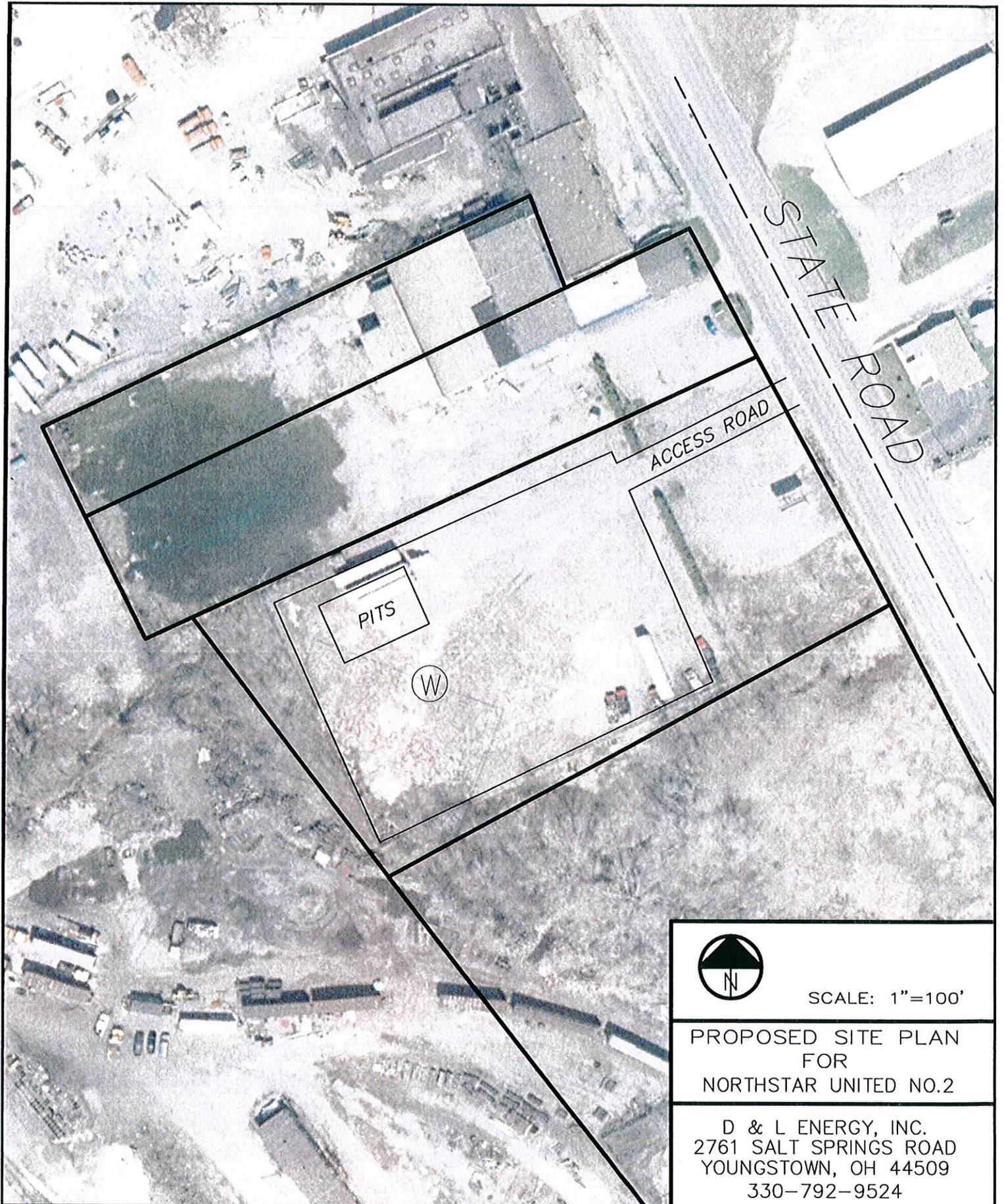
D&L ENERGY, INC.

  
Kimberly Little  
Land Administration

/kl

Enclosures





SCALE: 1"=100'

PROPOSED SITE PLAN  
FOR  
NORTHSTAR UNITED NO.2

D & L ENERGY, INC.  
2761 SALT SPRINGS ROAD  
YOUNGSTOWN, OH 44509  
330-792-9524

**SALTWATER INJECTION WELL - AFFIDAVIT**

Ohio Department of Natural Resources  
Division of Mineral Resources Management  
2045 Morse Road, Columbus, OH 43229-6693

State of OHIO, MAHONING County, ss

NICHOLAS C. PAPANODIS being first duly sworn

says that as principal, or authorized agent, for D+L ENERGY, INC.,

he or she has made application for a saltwater injection well in the State of Ohio,

TRUMBULL County, CITY OF GIRARD Township, section/lot number 2; and

further certifies that notice of application has been delivered to each individual entitled to personal notification in accordance with paragraph (E) of Rule 1501:9-3-.06 of the Ohio Administrative Code. And further affiant saith not.

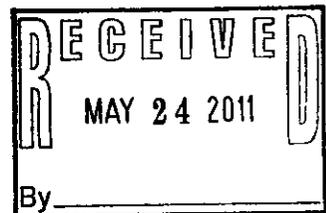
*NCP*  
Affiant Signature

Sworn to before me and subscribed in my presence this 18 day of May,  
20 11.



KIMBERLY A. LITTLE  
MY COMMISSION EXPIRES  
JUNE 1, 2014

*Kimberly A. Little*  
Notary Public





**D & L ENERGY, INC.  
LAND DEPARTMENT**

2761 Salt Springs Road, Youngstown, Ohio 44509  
(330) 792-9524 (888) 343-4427 Fax (330) 270-1202  
[www.dandlenergy.com](http://www.dandlenergy.com)

---

May 19, 2011

Ohio Department of Natural Resources  
Division of Mineral Resources Management  
2045 Morse Road, Building H-3  
Columbus, OH 43229-6693

Ladies and Gentlemen:

Enclosed please find the Application for a Permit to drill a Saltwater Injection Well and the required documentation for the following wells:

**North Star United Well #2  
North Star Khalil Well #3  
North Star Lucky Well #4**

Also, enclosed is check #21167, in the amount of \$3,000.00.

If you have any questions, please contact Nicholas Paparodis at 330-792-9524, ext. 132.

Very truly yours,

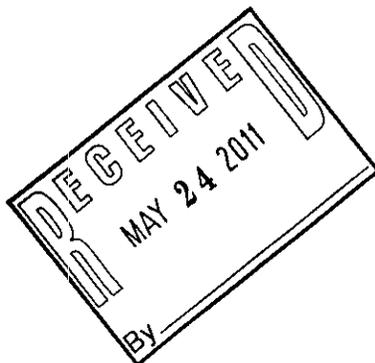
D&L ENERGY, INC.

A handwritten signature in cursive script that reads 'Kimberly Little'.

Kimberly Little  
Land Administration

/kl

Enclosures

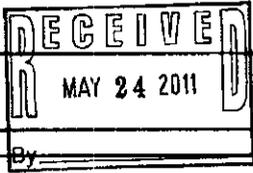


**APPLICATION FOR A PERMIT (Form 1)**  
 OHIO DEPARTMENT OF NATURAL RESOURCES  
 DIVISION OF MINERAL RESOURCES MANAGEMENT  
 2045 Morse Road, Building H-3  
 COLUMBUS, OHIO 43229-6693  
 (614) 265-6633

# 21167  
 \$1,000<sup>00</sup>

AP# 4019739

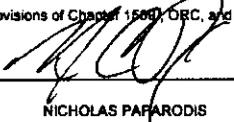
SEE INSTRUCTIONS ON PAGE 2 (BACK)

1. I, We (applicant) <b>D&amp;L ENERGY, INC.</b>		2. Owner #: <b>2651</b>	
(address) <b>2761 SALT SPRINGS RD., YOUNGSTOWN, OH 44509</b>		Phone #: <b>330-792-9524</b>	
hereby apply this date <b>MAY 16</b> , 20 <b>11</b> for a permit to:			
<input type="checkbox"/> Reissue (check appropriate blank)	<input type="checkbox"/> Revised Location	<input type="checkbox"/> Convert	
<input checked="" type="checkbox"/> Drill New Well	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Deepen	
<input type="checkbox"/> Drill Directionally	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Reopen	
<input type="checkbox"/> Drill Horizontally	<input type="checkbox"/> Orphan Well Program	<input type="checkbox"/> Temporary Inactive	
3. TYPE OF WELL:			
<input type="checkbox"/> Oil & Gas	<input type="checkbox"/> Annular Disposal	<input checked="" type="checkbox"/> Saltwater Injection	
<input type="checkbox"/> Stratigraphic Test	<input type="checkbox"/> Gas Storage	<input type="checkbox"/> Other (explain):	
<input type="checkbox"/> Solution Mining*	<input type="checkbox"/> Enhanced Recovery* (* if checked, select appropriate box below)		
<input type="checkbox"/> Input/Injection	<input type="checkbox"/> Water Supply	<input type="checkbox"/> Observation	<input type="checkbox"/> Production/Extraction
4. MAIL PERMIT TO: D&L ENERGY, INC. 2761 SALT SPRINGS RD. YOUNGSTOWN, OH 44509		20. TYPE OF TOOLS:	
		<input type="checkbox"/> Cable	<input type="checkbox"/> Air Rotary
		<input type="checkbox"/> Cable / Air Rotary	<input checked="" type="checkbox"/> Air / Fluid Rotary
		<input type="checkbox"/> Cable / Fluid Rotary	<input type="checkbox"/> Fluid Rotary
		<input type="checkbox"/> Cable / Air / Fluid Rotary	<input type="checkbox"/> Service Rig
5. COUNTY: <b>TRUMBULL</b>		21. PROPOSED CASING PROGRAM:	
6. CIVIL TOWNSHIP: <b>CITY OF GIRARD</b>			
7. SECTION: <b>8</b> LOT: <b>2</b>		11-3/4" FOR 100 FT, 9-3/4" FOR 1010 FT CEMENTED TO SURFACE, 7" CEMENTED TO SURFACE	
9. FRACTION: <b>OL 104</b> 10. QTR TWP:			
11. TRACT / ALLOT:			
12. WELL #: <b>2</b>			
13. LEASE NAME: <b>NORTHSTAR UNITED</b>			
14. PROPOSED TOTAL DEPTH: <b>9300</b>			
15. PROPOSED GEOLOGICAL FORMATION: <b>KNOX-PRECAMBRIAN</b>		22. FIRE AND MEDICAL DEPARTMENT TELEPHONE NUMBERS: (closest to well site)	
16. DRILLING UNIT IN ACRES (must be same as acres indicated on plat): <b>5</b>		Fire: <b>911</b>	
		Medical: <b>911</b>	
17. IF PERMITTED PREVIOUSLY:		23. MEANS OF INGRESS & EGRESS:	
API #:		Township Road:	
OWNER:		County Road:	
WELL #:		Municipal Road:	
LEASE NAME:		State Highway: <b>STATE ROUTE 422</b>	
TOTAL DEPTH:			
GEOLOGICAL FORMATION:		24. IS THE WELL LOCATION OR PRODUCTION FACILITIES WITHIN AN URBANIZED AREA AS DEFINED BY 1509.01(Y) ?	
18. IF SURFACE RIGHTS ARE OWNED BY THE OHIO DEPARTMENT OF NATURAL RESOURCES		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Division Name: <b>N/A</b>			
Division Phone:			
19. LANDOWNER ROYALTY INTEREST:			
Is There An Attached List? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Name: <b>UNITED TRUCK PARTS &amp; SALES, INC.</b>			
Address: <b>1560 S STATE STREET, GIRARD, OH 44420</b>			
Name: <b>ROBERT &amp; TERRIE CHUDAKOFF</b>			
Address: <b>1560 S STATE STREET, GIRARD, OH 44420</b>			
Name:			
Address:			

I, the undersigned, being first duly sworn, depose and state under penalties of law, that I am authorized to make this application, that this application was prepared by me or under my supervision and direction, and that the facts stated herein are true, correct, and complete, to the best of my knowledge.

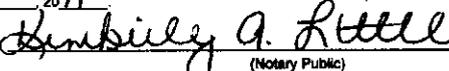
I, the undersigned, further depose and state that I am the person who has the right to drill on the tract or drilling unit and to drill into and produce from a pool and to appropriate the oil or gas that I produce therefrom either for myself or others as described in this application. And furthermore, I the undersigned, being duly sworn, depose and state at this time that I am not liable for any final nonappealable order of a court for damage to streets, roads, highways, bridges, culverts, or drainage ways pursuant to Section 5577.12 of the Ohio Revised Code (ORC). I, the undersigned, further depose and state that all notices required by 1509.06 (A) (9) ORC for this application have been duly provided by me. If applying for a permit to plug and abandon a well, I hereby certify that the written notices, as required in Section 1509.13, ORC, have been given.

That I hereby agree to conform with all provisions of Chapter 1509, ORC, and Chapter 1801, OAC, and all orders and conditions issued by the Chief, Division of Mineral Resources Management.

Signature of Owner/Authorized Agent:  Name (Type or Print) **NICHOLAS PAFARODIS** Title **V.P. LAND OPERATIONS**

If signed by Authorized Agent, a certificate of appointment of agent must be on file.

Sworn to and subscribed before me this 18 day of May, 2011

  
 (Notary Public)



**KIMBERLY A. LITTLE**  
 MY COMMISSION EXPIRES  
**JUNE 1, 2014**

(Date Commission Expires)

**SUPPLEMENT TO APPLICATION  
PERMIT FOR A SALTWATER INJECTION WELL (Form 210)**

Ohio Department of Natural Resources, Division of Mineral Resources Management  
2045 Morse Road, Bldg H3  
Columbus, OH 43229-6693

**AREA OF REVIEW.** An application for a saltwater injection well (SWIW) will be evaluated on the basis of an "area of review" surrounding the proposed well. The area of review for wells in which injection of greater than two hundred barrels per day is proposed shall be the area circumscribed by a circle with the center point at the location of the injection well and a radius of one-half mile. The area of review for wells in which a maximum injection of two hundred barrels per day or less is proposed shall be the area circumscribed by a circle with the center point at the location of the injection well and a radius of one-quarter mile.

**31. PROPOSED INJECTION ZONE**

Geological Formation: Knox-Precambrian  
 Injection Interval: From: 8215 feet to 9180  
 Geologic description of injection zone: Interbedded, sandstone, limestone, dolomite, arkose sands

**32. WELL CONSTRUCTION AND OPERATION**

A. Description of the proposed casing and cement program for new wells, or of the casing, cementing or sealing with prepared clay for existing wells to be converted:  
Set 100' of 11-3/4" conductor, drill to 1010' and set 1010' of 9-3/4" casing with 300 sacks of superlite cement, drill 8-3/4" hole from 1010' to 9184' and set 8215' of 7" casing, set casing annulus packer (cap) at 8215', cement 7" casing from 8215' with 165 sacks SFL cement.

B. Proposed method for testing the casing:  
Mechanical Integrity test, then daily monitoring with a chart recorder.  
 Pressure test annulus to 1890 psi for 15 minutes with pressure less than a 5% decline.

C. Description of the proposed method for completion and operation of the injection well:  
Acidize and injection test thru 7" casing. Install 4" lined tubing with Baker packer set. Set at 8200' and pressure test to 1890 psi w/ no volume flow 5% decline.

D. Description of the proposed unloading, surface storage, and spill containment facilities:  
Concrete unloading pad  
 13 - 400 BBL steel holding and settling tanks contained in a 60'x90' concrete containment area with 2'-6" concrete walls.

60 X 90 X 0.0148 = 79.9 bbls./inch  
 X 30" = 2397 barrels of capacity  
 6/20/11 - Per Gary at Del Energy, Inc. -  
 only 2000 barrels will be tied together  
 at the bottom.

128 ✓

**RECEIVED**  
 MAY 24 2011  
 BY \_\_\_\_\_

**33. PROPOSED INJECTION VOLUMES**

A. Indicate the estimated amount of saltwater to be injected into the proposed injection well per day:  
 AVERAGE: 1500 BBL MAXIMUM: 2000 BBL

B. Indicate the method to be used to measure the actual amount of saltwater injected into the well:  
Daily water tickets and BBL counter.

**34. PROPOSED INJECTION PRESSURES**

A. Indicate the estimated pressure to be used for injection of saltwater into the proposed injection well:  
 AVERAGE: 1200 MAXIMUM: 1890

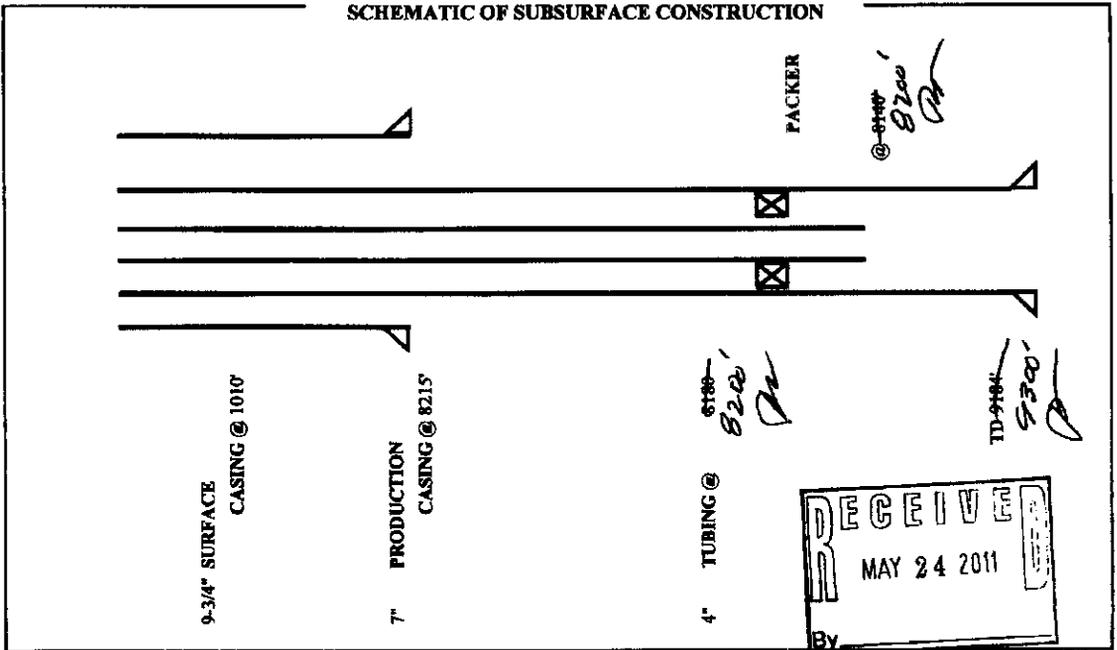
B. Indicate the method to be used to measure the actual daily injection pressure:  
Chart recorder

**35. PROPOSED CORRECTIVE ACTION**

Explain any corrective action proposed for wells penetrating the proposed injection formation or zone within the area of review:  
n/a

36. **MAP.** Each application for a permit shall be accompanied by a map or maps showing and containing the following information:
- A. The subject tract of land on which the proposed injection well is to be located.
  - B. The location of the proposed injection well on the subject tract established by an Ohio registered surveyor showing the distances in feet from the proposed well site to the boundary lines on the subject tract;
  - C. The geographic location of all wells, penetrating the formation proposed for injection regardless of status, within the area of review;
  - D. All holders of the land owner's royalty interest of record, or holders of the severed oil and gas mineral estates of record in the subject tract.
  - E. All owners or operators of wells producing from or injecting into the same formation proposed as the injection formation.

37. **SCHEMATIC DRAWING OF SUBSURFACE CONSTRUCTION.** Label the schematic drawing below indicating size and setting depth of surface casing, intermediate (if any) and production casings; amount of cement used, measured or calculated tops of cement; size and setting depth of tubing; type and setting depth of packer; geologic name of injection zone showing top and bottom of injection interval. If the proposed input well design is substantially different from the schematic below, attach on a separate sheet a schematic of your proposal labeled with the above information.



38. Public notice of an application for an enhanced recovery project is required by law. In addition, the applicant must submit, on an attached sheet, a list of the names and address of those persons required to receive personal notice in accordance with Rule 1501:9-5-05(E)(1), of the Ohio Administrative Code.

After submitting the application, and after a determination by the Division that it is complete as required by the rules of the Division, a legal notice must be published by the applicant in a newspaper of general circulation in the area of review. The legal notice must contain the information described in Rule 1501:9-5-05(E)(1) of the Ohio Administrative Code. A copy of the notice must be delivered to all owners or operators of wells within the area of review producing from or injecting into the same formation proposed as the injection formation. Proof of publication, publication date, and an oath as to the delivery to those entitled to receive personal notice under this method must be filed with the Division within thirty days after the Division determines that the application is complete.

In addition, notice of all applications for enhanced recovery projects will be published in the Division's Weekly Circular.

The undersigned hereby agrees to comply with all provisions for an enhanced recovery project as required by Chapter 1501:9-5 of the Ohio Administrative Code. In addition, the undersigned deposed and says that he shall conform to all provisions of Section 1509.072 of the Ohio Revised Code, and to all orders and rules issued by the Chief, Division of Mineral Resources Management.

Owner/Authorized Agent (Type or Print): Nicholas C. Paparodis  
 Signature of Owner/Authorized Agent: [Signature] Title: V.P. LAND OPERATIONS  
 Permanent Address of Home Office: 2761 Salt Springs Road, Youngstown, OH 44509

If signed by Authorized Agent, a certified copy of appointment of agent must be on file with the Division.

SWORN to and subscribed before me this 18 day of May, 2011.  
Kimberly G. Little  
 Notary Public

(SEAL)


**KIMBERLY A. LITTLE**  
 My Commission Expires  
**JUNE 1, 2014**

**SALTWATER INJECTION WELL – AFFIDAVIT**

Ohio Department of Natural Resources  
Division of Mineral Resources Management  
2045 Morse Road, Columbus, OH 43229-6693

State of OHIO, MAHONING County, ss

NICHOLAS C. PAPANODIS being first duly sworn

says that as principal, or authorized agent, for D+L ENERGY, INC.,

he or she has made application for a saltwater injection well in the State of Ohio,

TRUMBULL County, CITY OF GERRARD Township, section/lot number 2; and

further certifies that notice of application has been delivered to each individual entitled to personal notification in accordance with paragraph (E) of Rule 1501:9-3-.06 of the Ohio Administrative Code. And further affiant saith not.

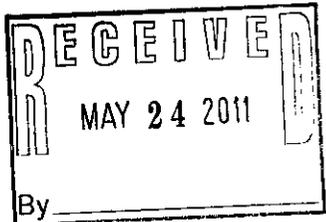
*NCP*  
Affiant Signature

Sworn to before me and subscribed in my presence this 18 day of May,  
20 11.



KIMBERLY A. LITTLE  
MY COMMISSION EXPIRES  
JUNE 1, 2014

*Kimberly A. Little*  
Notary Public



**RESTORATION PLAN (Form)**

Ohio Department of Natural Resources

Division of Mineral Resources Management, 2045 Morse Road, Bldg. H-3, Columbus OH 43229-6693

<p><b>1. DATE OF APPLICATION:</b> 16-May-11</p>	
<p><b>2. OWNER NAME, ADDRESS, &amp; TELEPHONE NO.:</b> D&amp;L ENERGY, INC., 2761 SALT SPRINGS RD., YOUNGSTOWN, OH 44509</p>	<p><b>3. API #:</b></p>
	<p><b>4. WELL #:</b> 2</p>
	<p><b>5. LEASE NAME:</b> NORTHSTAR UNITED</p>
	<p><b>6. PROPERTY OWNER:</b> UNITED TRUCK PARTS &amp; SALES, INC.</p>
	<p><b>7. COUNTY:</b> TRUMBULL</p>
	<p><b>8. CIVIL TOWNSHIP:</b> CITY OF GIRARD</p>
	<p><b>9. SECTION:</b> 10. LOT: 2</p>
<p><b>11. CURRENT LAND USE:</b></p> <p><input type="checkbox"/> Cropland                      <input type="checkbox"/> Commercial</p> <p><input type="checkbox"/> Pasture                            <input type="checkbox"/> Idle Land</p> <p><input type="checkbox"/> Wetlands                         <input type="checkbox"/> Recreational</p> <p><input type="checkbox"/> Residential                      <input checked="" type="checkbox"/> Industrial</p> <p><input type="checkbox"/> Unreclaimed strip mine</p> <p><input type="checkbox"/> Woodland:   <input type="checkbox"/> Broadleaf            <input type="checkbox"/> Needlelike</p>	<p><b>17. TYPE OF WELL:</b></p> <p><input type="checkbox"/> Oil            <input type="checkbox"/> Gas            <input checked="" type="checkbox"/> Other</p>
	<p><b>18. STEEPEST SLOPE GRADIENT CROSSING SITE:</b></p> <p><input checked="" type="checkbox"/> 0 to 2%                            <input type="checkbox"/> 2.1 to 8%</p> <p><input type="checkbox"/> 8.1 to 10%</p> <p><input type="checkbox"/> 10.1 to 24%                        <input type="checkbox"/> greater than 24%</p>
<p><b>12. SLOPE GRADIENT &amp; LENGTH DETERMINED FROM:</b></p> <p><input type="checkbox"/> Ground Measurement</p> <p><input type="checkbox"/> U.S. Geological Survey Topographical Maps</p> <p><input checked="" type="checkbox"/> Other: (explain) <u>COUNTY GIS MAP</u></p>	<p><b>19. LENGTH OF STEEPEST SLOPE CROSSING SITE:</b></p> <p><input type="checkbox"/> 1 to 100 ft.                        <input type="checkbox"/> 101 to 200 ft.</p> <p><input checked="" type="checkbox"/> 201 to 400 ft.                      <input type="checkbox"/> greater than 400 ft.</p>
<p><b>13. TYPE OF FALL VEGETAL COVER:</b></p> <p><input checked="" type="checkbox"/> Little or no vegetal cover</p> <p><input type="checkbox"/> Short grasses</p> <p><input type="checkbox"/> Tall weeds or short brush (1 to 2 ft.)</p> <p><input type="checkbox"/> Brush or bushes (2 to 6 ft.)</p> <p><input type="checkbox"/> Agricultural crops</p> <p><input type="checkbox"/> Trees with sparse low brush</p> <p><input type="checkbox"/> Trees with dense low brush</p>	<p><b>20. RESTORATION OF DRILLING PITS: **</b></p> <p><input checked="" type="checkbox"/> Haul drilling fluids and fill pits</p> <p><input type="checkbox"/> Use steel circulating tanks</p> <p><input type="checkbox"/> Proposed alternative _____</p>
<p><b>14. SOIL &amp; RESOILING MATERIAL AT WELLSITE:</b></p> <p><input checked="" type="checkbox"/> Stockpile and protect topsoil to be used when preparing seedbed</p> <p><input type="checkbox"/> Use of soil additives (e.g., lime, fertilizer)</p> <p><input type="checkbox"/> No resoiling planned</p> <p><input type="checkbox"/> Proposed alternative _____</p>	<p><b>21. BACKFILLING AND GRADING AT SITE:</b></p> <p><input type="checkbox"/> Construct diversions channeled to naturally established drainage systems</p> <p><input type="checkbox"/> Construct terraces across slopes</p> <p><input checked="" type="checkbox"/> Grade to approximate original contour</p> <p><input type="checkbox"/> Grade to minimize erosion &amp; control offsite runoff</p> <p><input type="checkbox"/> Proposed alternative _____</p>
<p><b>15. DISPOSAL PLAN FOR TREES AND TREE STUMPS:</b></p> <p><input checked="" type="checkbox"/> No trees disturbed                      <input type="checkbox"/> Haul to landfill</p> <p><input type="checkbox"/> Cut into firewood                        <input type="checkbox"/> Sell to lumber</p> <p><input type="checkbox"/> Bury with landowner's approval                      company</p> <p><input type="checkbox"/> Mulch small trees and branches, erosion control</p> <p><input type="checkbox"/> Use for wildlife habitat with landowner approval</p> <p><input type="checkbox"/> Proposed alternative _____</p>	<p><b>22. VEGETATIVE COVER TO BE ESTABLISHED AT SITE:</b></p> <p><input checked="" type="checkbox"/> Seeding plan                            <input type="checkbox"/> Sod</p> <p><input type="checkbox"/> Agricultural crops                        <input type="checkbox"/> Trees and/or Bushes</p> <p><input type="checkbox"/> Proposed alternative _____</p>
	<p><b>23. ADDITIONAL HOLES:</b></p> <p><input checked="" type="checkbox"/> Rat/Mouse, if used, will be plugged</p>
	<p><b>24. PROPOSED OR CURRENT LENGTH OF ACCESS ROAD:</b></p> <p><input checked="" type="checkbox"/> 100 ft. or less                        <input type="checkbox"/> 101 to 500 ft.</p> <p><input type="checkbox"/> 501 to 1500 ft.                        <input type="checkbox"/> greater than 1500 ft.</p>
<p><b>16. SURFACE AND SUBSURFACE DRAINAGE FACILITIES:</b></p> <p><input checked="" type="checkbox"/> No existing drainage facilities for removal of surface and/or subsurface water</p> <p><input type="checkbox"/> Tile drainage system underlying land to be disturbed</p> <p><input type="checkbox"/> Drain pipe(s) underlying land to be disturbed</p> <p><input type="checkbox"/> Surface drainage facilities on land to be disturbed</p>	<p><b>25. CURRENT LAND USE OF PATH OF ACCESS ROAD:</b></p> <p><input type="checkbox"/> Cropland                            <input type="checkbox"/> Pasture                      <input checked="" type="checkbox"/> Commercial</p> <p><input checked="" type="checkbox"/> Idle land                            <input type="checkbox"/> Wetlands                      <input type="checkbox"/> Recreational</p> <p><input checked="" type="checkbox"/> Industrial                            <input type="checkbox"/> Residential</p> <p><input type="checkbox"/> Unreclaimed strip mine</p> <p><input type="checkbox"/> Woodland:   <input type="checkbox"/> Broadleaf                      <input type="checkbox"/> Needlelike</p>

**\*\*PITS MUST BE FILLED WITHIN TWO MONTHS AFTER COMMENCEMENT OF THE WELL AND WITHIN FOURTEEN DAYS AFTER COMMENCEMENT OF THE WELL IN AN URBANIZED AREA.**

**REQUIRED BY SECTION 1509.06 (A)(10), OHIO REVISED CODE -- FAILED TO SUBMIT MAY RESULT IN AN ASSESSMENT OF CRIMINAL FINES NOT LESS THAN \$100.00 NOR MORE THAN \$2,000.00 OR CIVIL PENALTIES NOT LESS THAN \$4,000.00.**



**CONSTRUCTION AND TESTING REPORT**

Saltwater Injection Wells / Enhanced Recovery Projects  
Ohio Department of Natural Resources, Division of Mineral Resources Management  
1855 Fountain Sq Ct Bldg. H-3  
Columbus, OH 43224-1383

form 251: rev. 9/02

1. Owner Name: <u>D &amp; L Energy, Inc.</u>				6. SWIW or ERP Number: <u>SWIW #17</u>	
Address: <u>2761 Salt Springs Road, Youngstown</u>				7. County: <u>Trumbull</u>	
Phone No.: <u>330-792-9524</u>				8. Civil Township: <u>Liberty</u>	
co. code		permit #		9. Section: _____ Lot: _____	
2. API Number: 34	<u>155</u>	<u>2</u>	<u>4043</u>	10. Fraction: _____ Qtr. Twp.: _____	
3. Date Permit Issued: <u>6/28/11</u>			11. Tract/Allotment: _____		

4. Lease Name: Northstar United #2

5. Type of Report:

Saltwater Injection Well (SWIW)  Other ( specify ): \_\_\_\_\_

Enhanced Recovery Project (ERP)

12. Casing and Tubing Record: (Please indicate whether cement or mud is used.)

DIAMETER (INCHES)	LENGTH USED IN DRILLING (FEET)	VOLUME OF CEMENT OR MUD (SACKS)	LENGTH LEFT IN WELL (FEET)
<u>9.625</u>	<u>1010</u>	<u>Cemented to surface</u>	<u>1010</u>
<u>7.0</u>	<u>7808</u>	<u>Cemented w / 75 sacks</u>	<u>7808</u>
<u>4.5</u>	<u>7701.2</u>	<u>N/A</u>	<u>7701.2</u>

Comments: New 4-1/2 inch (11.6 lbs./ft.)

13. Cement top of long string: \_\_\_\_\_

14. Type of setting depth packer: Baker Hornet (7.91 ft.) set @ 7706.8 feet

15. Perforated interval & no. shots: open hole @ 7808 feet

16. Amount and type of fluid placed in annulus between long string and tubing: 10 gallons of Packer Inhibitor (Superior) mixed w/ 180 barrels of fresh water - used approx. 140 barrels

17. Pressure test on annulus between long string and tubing:

Testing pressure ( maximum proposed injection pressure ) = 2880 psi. (maximum pressure = ~~1230~~ <sup>1090</sup> psi.)

PSI after 5 minutes = 2880      PSI after 15 minutes = 2875

Note : pressure must not decline by more than 5 % at the conclusion of the test period.

Maximum injection pressure : PM = C X D

PM = Maximum surface injection pressure ( psig )

D = Depth to highest perforation or top of open hole

C = Value dependent on injection fluid : Berea - 0.29; Clinton water = 0.23;

Trempealeau water = 0.27 .

( for more detailed explanation, see reverse side. )

18. Comments: There was a decline in pressure of approx. 5 psi. observed during 15 minute test period.

INSPECTED BY: Stephen Ochs      DATE: 26-Oct-11

TITLE: Mineral Resource Inspector 2