

STATE OF OHIO  
DEPARTMENT OF NATURAL  
RESOURCES

Division of Oil and Gas  
Resources Management  
WELL PERMIT

API WELL NUMBER  
34-155-2-4050-00-00

OWNER NAME, ADDRESS D & L ENERGY INC 2761 SALT SPRINGS RD YOUNGSTOWN OH 44509	DATE ISSUED 12/29/2011	PERMIT EXPIRES 12/28/2012
	TELEPHONE NUMBER	(330) 792-9524

IS HEREBY GRANTED PERMISSION TO: Salt Water Injection Well New Well AND ABANDON WELL IF UNPRODUCTIVE  
PURPOSE OF WELL: Water Injection - Disposal  
COMPLETION DATE IF PERMIT TO PLUG:

**DESIGNATION AND LOCATION:**

LEASE NAME NORTHSTAR NEXLEV (SWIW #20)  
WELL NUMBER 5  
COUNTY TRUMBULL  
CIVIL TOWNSHIP HUBBARD  
TRACT OR ALLOTMENT  
SURFACE FOOTAGE LOCATION 528' NL & 562' WL OF SECTION 35  
TARGET FOOTAGE LOCATION

**SURFACE NAD27**      **TARGET NAD27**  
X: 2532151  
Y: 554857  
LAT: 41.1734798925319  
LONG: -80.5668522384439

**TYPE OF TOOLS:** Air Rotary/Fluid Rotary

PROPOSED TOTAL DEPTH 9300 FEET  
GROUND LEVEL ELEVATION 947 FEET

**GEOLOGICAL FORMATION(S):**  
KNOX - MT.SIMON

**SPECIAL PERMIT CONDITIONS:** Permit is subject to the attached terms and/or conditions  
Samples Requested, see attached letter  
Salt Water Injection Well (Class II) Construction and Operating Conditions

**CONDITIONALLY APPROVED CASING PROGRAM (SUBJECT TO APPROVAL OF THE OIL AND GAS WELL INSPECTOR):**

13-3/8 " APPROX. 100 ' WITH CEMENT CIRCULATED TO SURFACE  
9-5/8 " APPROX. 1010 ' WITH CEMENT CIRCULATED TO SURFACE  
7" CASING 8215' CEMENTED TO A MINIMUM OF 300' ABOVE INJECTION ZONE  
4-1/2" TUBING SET ON A PACKER APPROX. 85' ABOVE INJECTION ZONE

This permit is NOT TRANSFERABLE. This permit, or an exact copy thereof, must be displayed in a conspicuous and easily accessible place at the well site before permitted activity commences and remain until the well is completed. Ample notification to inspector is necessary.

**OIL AND GAS WELL INSPECTOR:**

OCHS STEPHEN (330) 933-2090  
EUGENE CHINI - Supervisor (330) 284-2942  
DISTRICT #: (330) 896-0616

**INSPECTOR NOTIFICATION**

The oil and gas inspector must be notified at least 24 hours prior to:

1. Commencement of site construction
2. Pit excavation and closure
3. Commencement of drilling, reopening, converting or plugback operations
4. Installation and cementing of all casing strings
5. BOP testing
6. Well stimulation
7. Plugging operations

The oil and gas inspector must be notified immediately upon:

1. Discovery of defective well construction
2. Detection of any natural gas or H2S gas during drilling in urban areas
3. Discovery of defective well construction during well stimulation
4. Determination that a well is a lost hole
5. Determination that a well is a dry hole

**FIRE AND EMERGENCY NUMBERS**

FIRE: ( ) - 911  
MEDICAL SERVICE ( ) - 911

**Richard J. Simmers**

CHIEF, Division of Oil and Gas Resources  
Management

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LEASE NAME	NORTHSTAR NEXLEV {SWIW #20}	X: 2532151	
WELL NUMBER	5	Y: 554857	
COUNTY	TRUMBULL	LAT: 41.1734798925319	
CIVIL TOWNSHIP	HUBBARD	LONG: -80.5668522384439	
TRACT OR ALLOTMENT			
SURFACE FOOTAGE LOCATION	528' NL & 562' WL OF SECTION 35		
TARGET FOOTAGE LOCATION			

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CHIEF, Division of Oil and Gas Resources  
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<b>OIL AND GAS WELL INSPECTOR:</b> OCHS STEPHEN (330) 933-2090 EUGENE CHINI - Supervisor (330) 284-2942 DISTRICT # (330) 896-0616	<b>FIRE AND EMERGENCY NUMBERS</b> <b>FIRE:</b> ( ) - 911 <b>MEDICAL SERVICE</b> ( ) - 911
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# Well Completion Record

Ohio Department of Natural Resources

Division of Oil and Gas Resources Management, 2045 Morse Road, Building H-3, Columbus, OH 43229-6693

Form 8: Revised 6/2010

1. Owner # <u>2651</u>			
2. Owner name, address and telephone numbers: D & L ENERGY INC 2761 SALT SPRINGS RD  YOUNGSTOWN, OH 44509 Phone: (330) 792-9524		This report is due in duplicate 60 days after completion of the well. If the permit has expired and the well was not drilled, <input type="checkbox"/> check here sign on reverse side, and return to our office within 30 days after expiration	
4. Type of Permit: <u>Salt Water Injection Well New Well</u>		3. API #: <u>34-155-2-4050-00-00</u>	
7. Type of well: <u>Water Injection - Disposal</u>		5. County: <u>TRUMBULL</u>	
9 X: <u>2532151</u> Y: <u>554857</u>		6. Civil Township: <u>HUBBARD</u>	
10. Quad: <u>SHARON WEST</u>		8. Footage: <u>528' NL &amp; 562' WL OF SECTION 35</u>	
11. Section: <u>35</u> 12. Lot: _____		21. Date drilling commenced: _____	
13. Fraction: _____ 14. Qtr. Twp: _____		22. Date drilling completed: _____	
15. Tract: _____		23. Date put into production: _____	
16. Allot: _____		24. Date plugged if dry: _____	
17. Well #: <u>5</u>		25. Producing formation: _____	
18. Lease Name: <u>NORTHSTAR NEXLEV {SWIW #20}</u>		26. Deepest formation: _____	
19. PTD: <u>9300</u> 20. Drilling Unit: <u>3.98</u>		27. Driller's total depth: _____	
30. Type of tools: <input type="checkbox"/> Cable <input type="checkbox"/> Air Rotary <input type="checkbox"/> Fluid Rotary <input type="checkbox"/> Air/Fluid Rotary <input type="checkbox"/> Cable/Air rotary <input type="checkbox"/> Service Rig <input type="checkbox"/> Cable/Fluid Rotary <input type="checkbox"/> Cable/Air Rotary/Fluid Rotary		31. Type of completion: <input type="checkbox"/> Open Hole <input type="checkbox"/> Through Casing <input type="checkbox"/> Slotted Liner	
33. Perforated intervals and number of shots:		32. Elevation: Ground Level <u>947</u> Derrick Floor _____ Kelly Bushing _____	
34. Name of frac company _____		BOP Type _____	
35. Method of shot, acid, or fracture treatments, production tests, pressures, etc.:			
SHOT	ACID	FRAC FLUID	SAND
Lbs. _____	Gal. _____	Water (gal) _____	Lb. _____
Qts. _____	Type: _____	Water (bbl) _____	Sks. _____
Type: _____	Percent: _____	CO2: tons _____	
		N2: mscf _____	
METHOD OF FLUID CONTAINMENT			PRESSURES: (psi)
FLUID	Pit	Frac Tank	Breakdown: _____
Swab: _____ <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ATP _____
Flowback: _____ <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ISIP _____
			5 MIN. SIP: _____
			AVG. RATE _____ BPM
DATE TREATED: _____			
36. Amount of initial production per day:			
	(MCF.)	(Bbbs.)	(Bbbs.)
Natural:	Gas _____	Oil _____	Brine _____
After Treatment:	Gas _____	Oil _____	Brine _____
SERC Data:	Number of Tanks: _____	Maximum Storage Capacity of all Tanks (bbbs.): _____	
37. Casing and tubing record: Please indicate which is used (cement or mudding):			
Wit by Insp	Type	Size	Feet Used in Drilling
<input type="checkbox"/>	Conductor/Drive Pipe	_____	_____
D	Surface	_____	_____
M	Intermediate	_____	_____
R	Production	_____	_____
M	Tubing	_____	_____
	Comments:	_____	_____
38. Name of drilling contractor: _____			
39. Type of electrical and/or radioactivity logs run (all logs must be submitted): _____			
40. Name of logging company: _____			
<b>DIVISION USE ONLY:</b>			
Log Submitted: Y/N	Frac data submitted: <input type="checkbox"/>	Pressure/rate graph: <input type="checkbox"/>	Well Class: _____
Confidential: Y/N		Record: <input type="checkbox"/>	Salt Water Injection Well
		Invoice: <input type="checkbox"/>	
Required by Section 1509.10, Ohio Revised Code.	Frac Witnessed: <input type="checkbox"/>	BOP Witnessed: <input type="checkbox"/>	
DNR 5607 (Rev.6/10)			

# Well Completion Record

Ohio Department of Natural Resources

Division of Oil and Gas Resources Management, 2045 Morse Road, Building H-3, Columbus, OH 43229-6693

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13. Fraction:	14. Qtr. Twp:	22. Date drilling completed:
15. Tract:		23. Date put into production:
16. Allot:		24. Date plugged if dry:
17. Well #: 5		25. Producing formation:
18. Lease Name: NORTHSTAR NEXLEV {SWIW #20}		26. Deepest formation:
19. PTD: 9300	20. Drilling Unit: 3.98	27. Driller's total depth:
30. Type of tools:		28. Logger's total depth:
<input type="checkbox"/> Cable	<input type="checkbox"/> Air Rotary	29. Lost hole at _____ feet.
<input type="checkbox"/> Fluid Rotary	<input type="checkbox"/> Air/Fluid Rotary	31. Type of completion:
<input type="checkbox"/> Cable/Air rotary	<input type="checkbox"/> Service Rig	<input type="checkbox"/> Open Hole
<input type="checkbox"/> Cable/Fluid Rotary	<input type="checkbox"/> Cable/Air Rotary/Fluid Rotary	<input type="checkbox"/> Through Casing
33. Perforated intervals and number of shots:		32. Elevation:
34. Name of frac company _____		Ground Level <u>947</u>
35. Method of shot, acid, or fracture treatments, production tests, pressures, etc.:		Derrick Floor _____
SHOT _____	ACID _____	Kelly Bushing _____
Lbs. _____	Gal. _____	
Qts. _____	Type: _____	PRESSURES: (psi)
Type: _____	Percent: _____	Breakdown: _____
	CO2: tons _____	ATP _____
	N2: mscf _____	ISIP _____
METHOD OF FLUID CONTAINMENT		5 MIN. SIP: _____
FLUID _____	Pit <input type="checkbox"/>	AVG. RATE _____ BPM
Swab: _____	Frac Tank <input type="checkbox"/>	
Flowback: _____		DATE TREATED: _____
36. Amount of initial production per day:		
Natural:	Gas _____ (MCF.)	Oil _____ (Bbls.)
After Treatment:	Gas _____	Oil _____
SERC Data:	Number of Tanks: _____	Brine _____
		Maximum Storage Capacity of all Tanks (bbls.): _____
37. Casing and tubing record: Please indicate which is used (cement or mudding):		
Wit by Insp <input type="checkbox"/>	Type	Size
D <input type="checkbox"/>	Conductor/Drive Pipe	Feet Used in Drilling
M <input type="checkbox"/>	Surface	Amount of Cement or Mud
R <input type="checkbox"/>	Intermediate	Feet Left in Well
M <input type="checkbox"/>	Production	
<input type="checkbox"/>	Tubing	
	Comments:	
38. Name of drilling contractor: _____		
39. Type of electrical and/or radioactivity logs run (all logs must be submitted): _____		
40. Name of logging company: _____		
<b>DIVISION USE ONLY:</b>		
Log Submitted: Y/N	Frac data submitted: <input type="checkbox"/>	Pressure/rate graph: <input type="checkbox"/>
Confidential: Y/N		Record <input type="checkbox"/>
		Invoice <input type="checkbox"/>
Required by Section 1509.10, Ohio Revised Code.	Frac Witnessed: <input type="checkbox"/>	Well Class: Salt Water Injection Well
DNR 5607 (Rev.6/10)		BOP Witnessed <input type="checkbox"/>

## Fault and Lineament Review for Class II Wells

Application No. aAMY0000420

SWIW: (Salt Water Injection Well)

Proposed Well Depth: 9300 feet

Proposed Injection Zone: Knox – Mt. Simon

Trumbull County, Hubbard Twp.

Study area investigated ~ 15 mile radius centered on the proposed well location for all maps except the gravity and magnetic maps, which used 30 mile radius.

### Gravity Bouguer Anomaly

- The gravity Bouguer Anomaly map shows a gravity low approximately 8 miles south of the permit application.

### Gravity Free Air

- The free air map shows a gravity low approximately 16 miles south of the permit application.

### Magnetic First Derivative

- There are no major anomalies shown on this map.

### Magnetic Second Derivative

- There are no major anomalies shown on this map.

### Magnetic Reduce Dipole

- There is a gravity low approximately 25 miles to the NW of the permit application.

### Precambrian Structure from PG-23

- There are no faults or major anomalies shown on this map.

### Knox Structure

- There are no faults or major anomalies shown on this map.

### Trenton Structure

- There are no faults or major anomalies shown on this map.

### EGSP Onondaga Structure

- A NE-SW trending low is present approximately 12 miles west of the permit application.

### MRCSP Onondaga Structure

- There are no major anomalies shown on this map.

### EGSP Berea Structure

- A NE-SW trending structural nose is present approximately 2 miles SW of the permit application. Another north-south trending structural nose is also present approximately 8 miles SW of the permit application. The North Star #1 well is located over this feature. A NE-SW trending closed high is also present approximately 6 miles NW of the permit application.

### Mississippian/Pennsylvanian Unconformity Surface

- The Mississippian-Pennsylvanian unconformity indicates numerous irregularities on this unconformity surface in the study area.

### Middle Kittanning Coal Structure

- The Middle Kittanning coal structure map does not extend this far north.

### Upper Freeport Coal Structure

- The Upper Freeport Coal structure map does not extend this far north.

### Pittsburgh Coal Structure

- The Pittsburgh coal structure map does not extend this far north.

### Bedrock Geology

- The top of bedrock for the permit application is the Mississippian Logan and Cuyahoga Formations. The permit application is located within a NE-SW trending bedrock low surrounded by younger Pennsylvanian Allegheny and Pottsville Group rocks.

#### Bedrock Topography

- The bedrock topography map indicates the permit application is located within a NE-SW trending valley.

#### EGSP Aerial Photo Lineament

- Numerous lineaments generally less than 1 mile in length have been interpreted from aerial photos by Gray and others (1982) in the immediate vicinity of the permit application with 2 dominant directions oriented northwest-southeast and northeast-southwest.

#### EGSP LANDSAT Lineament

- A N-S trending lineament is present about 1 mile north of the permit application.

#### Mason Lineament

- A NW-SE trending lineament is present 4 miles north of the permit application.
- A NW-SE trending lineament is present approximately 6 miles SE of the permit application. This lineament named the Blairsville- Broadtop lineament by Mason (1999) is adjacent to the Northstar #1 well.

#### Oil and gas fields

- Production in the study area is in the Berea, Devonian Shale, and Clinton. The nearest "Clinton" producing field is approximately 1/2 mile east of the permit application.

#### Earthquakes

- There have been 13 earthquake epicenters that have occurred within the 30 mile study area. The nearest being about 8 miles SW of the permit application. All of these earthquake epicenters occurred in 2011 and 2012. The largest had a magnitude of 4.

#### Injection Wells

- There are 6 SWD (active salt water disposal) wells within the 30 mile study area that are injecting in the Clinton, "Newburg," and Cambrian. The nearest SWD well is approximately 6 miles to the NW of the permit application.

To summarize, the deep structure maps indicate no faults in the study area. It should be noted that there is limited deep well control in this county. The bedrock topography map does indicate the permit application is located within a NE-SW trending valley. Thirteen earthquakes have occurred within the study area since 2010, of which the nearest is about 8 miles to the SW.





*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

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February 3, 2012

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

Re: Revised North Star Nexlev Well No. 5 Permit Application

To Whom It May Concern,

I am here by submitting a new Permit Application along with the Supplement to Application for the above referenced well to accommodate D&L's remediation plan for disposal wells as submitted by Larry Smyers. All other forms, site plans, and plats associated with the original Permit Application remain applicable to said permit and may be utilized.

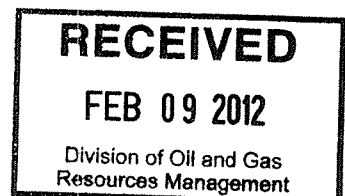
You may contact me with any questions or if additional information or funds is required.

Sincerely,

A handwritten signature in black ink, appearing to read 'N. Paparodis', is written over a faint, illegible stamp.

Nicholas C. Paparodis  
Vice President of Land Operations

Cc: files



**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

**SEE INSTRUCTIONS ON PAGE 2 (BACK)**

1. I, We (applicant) <u>D&amp;L ENERGY, INC.</u>		2. Owner #: <u>2651</u>	
(address) <u>2761 SALT SPRINGS RD., YOUNGSTOWN, OH 44509</u>		Phone #: <u>330-792-9524</u>	
hereby apply this date <u>FEB. 1</u> , 20 <u>12</u> 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: <u>TRUMBULL</u>		21. PROPOSED CASING PROGRAM:	
6. CIVIL TOWNSHIP: <u>HUBBARD TWP.</u>		11-3/4" FOR 100 FT , 9-3/4" FOR 400 FT CEMENTED TO SURFACE, 7" CEMENTED TO SURFACE	
7. SECTION: <u>35</u> 8. LOT:			
9. FRACTION:		10. QTR TWP:	
11. TRACT / ALLOT:			
12. WELL #: <u>5</u>			
13. LEASE NAME: <u>NORTHSTAR NEXLEV</u>			
14. PROPOSED TOTAL DEPTH: <u>8900</u>			
15. PROPOSED GEOLOGICAL FORMATION: <u>KNOX-CONASAUGA</u>		22. FIRE AND MEDICAL DEPARTMENT TELEPHONE NUMBERS: (closest to well site)	
16. DRILLING UNIT IN ACRES (must be same as acres indicated on plat): <u>3.98</u>		Fire: <u>911</u>	
		Medical: <u>911</u>	
17. IF PERMITTED PREVIOUSLY:		23. MEANS OF INGRESS & EGRESS:	
API #:		Township Road:	
OWNER:		County Road: <u>HUBBARD MASURY RD</u>	
WELL #:		Municipal Road:	
LEASE NAME:		State Highway: <u>S.R. 7</u>	
TOTAL DEPTH:			
GEOLOGICAL FORMATION:			
18. IF SURFACE RIGHTS ARE OWNED BY THE OHIO DEPARTMENT OF NATURAL RESOURCES		24. IS THE WELL LOCATION OR PRODUCTION FACILITIES WITHIN AN URBANIZED AREA AS DEFINED BY 1509.01(Y) ?	
Division Name: <u>N/A</u>		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Division Phone:			
19. LANDOWNER ROYALTY INTEREST:			
Is There An Attached List? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Name: <u>NEXLEV INC.</u>			
Address: <u>7041 TRUCKWORLD BLVD., HUBBARD, OH 44425</u>			
Name:			
Address:			
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 1501, OAC, and all orders and conditions issued by the Chief, Division of Mineral Resources Management.

Signature of Owner/Authorized Agent Nicholas Paparodis  
 Name (Type or Print) NICHOLAS PAPARODIS 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 the 3 day of February, 2012



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

Kimberly A. Little  
 (Notary Public)

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: 8100 feet to 8900  
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 13-3/8" conductor, drill to 1010' and set 1010' of 9-5/8" casing with 300 sacks of superlite cement, drill 8-3/4" hole from 1010' to 8900' and set 8100' of 7" casing, set casing annulus packer (cap) at 8100', cement 7" casing from 8100' with 165 sacks SFL cement.
- B. Proposed method for testing the casing:  
Mechanical Integrity test, then daily monitoring with a chart recorder.
- 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.
- D. Description of the proposed unloading, surface storage, and spill containment facilities:  
Concrete unloading pad  
20 - 500 BBL steel holding and settling tanks contained in a 81'x140' concrete containment area with 5'-2" concrete walls.

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: 3500 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**

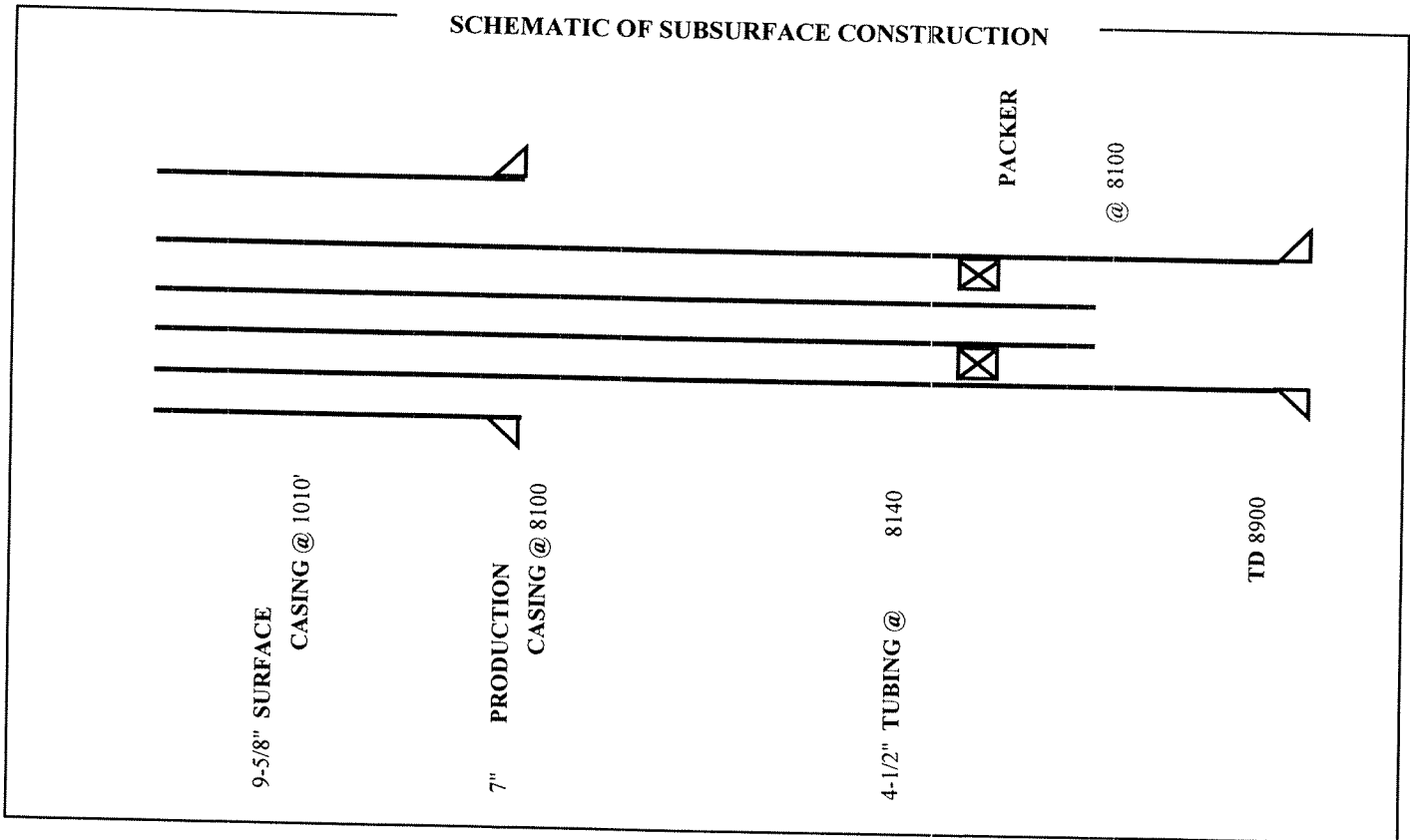
- A. Indicate the estimated pressure to be used for injection of saltwater into the proposed injection well:  
AVERAGE: 1200 MAXIMUM: 1890
- B. Indicate the method to be used to measure the actual daily injection pressure:  
Chart recorder

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: *Nicholas C. Paparodis* Title: VP LAND

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 3 day of February, 2012.



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

*Kimberly A. Little*  
 Notary Public  
June 1, 2014  
 Date Commission Expires



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

February 3, 2012

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

Re: Revised North Star Nexlev Well No. 5 Permit Application

To Whom It May Concern,

I am here by submitting a new Permit Application along with the Supplement to Application for the above referenced well to accommodate D&L's remediation plan for disposal wells as submitted by Larry Smyers. All other forms, site plans, and plats associated with the original Permit Application remain applicable to said permit and may be utilized.

You may contact me with any questions or if additional information or funds is required.

Sincerely,

A handwritten signature in black ink, appearing to read 'Nicholas C. Paparodis'.

Nicholas C. Paparodis  
Vice President of Land Operations

Cc: files

**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

SEE INSTRUCTIONS ON PAGE 2 (BACK)

1. I, We (applicant) <u>D&amp;L ENERGY, INC.</u>		2. Owner #: <u>2651</u>	
(address) <u>2761 SALT SPRINGS RD., YOUNGSTOWN, OH 44509</u>		Phone #: <u>330-792-9524</u>	
hereby apply this date <u>FEB. 1</u> , 20 <u>12</u> for a permit to:			
<input type="checkbox"/> Reissue (check appropriate blank) <input checked="" type="checkbox"/> Drill New Well <input type="checkbox"/> Drill Directionally <input type="checkbox"/> Drill Horizontally		<input type="checkbox"/> Revised Location <input type="checkbox"/> Plug Back <input type="checkbox"/> Plug and Abandon <input type="checkbox"/> Orphan Well Program	
		<input type="checkbox"/> Convert <input type="checkbox"/> Deepen <input type="checkbox"/> Reopen <input type="checkbox"/> Temporary Inactive	
3. TYPE OF WELL:			
<input type="checkbox"/> Oil & Gas <input type="checkbox"/> Stratigraphic Test <input type="checkbox"/> Solution Mining* <input type="checkbox"/> Input/Injection		<input type="checkbox"/> Annular Disposal <input type="checkbox"/> Gas Storage <input type="checkbox"/> Enhanced Recovery* <input type="checkbox"/> Water Supply	
		<input checked="" type="checkbox"/> Saltwater Injection <input type="checkbox"/> Other (explain): _____ (* if checked, select appropriate box below)	
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"/> Cable / Air Rotary <input type="checkbox"/> Cable / Fluid Rotary <input type="checkbox"/> Cable / Air / Fluid Rotary	
		<input type="checkbox"/> Air Rotary <input checked="" type="checkbox"/> Air / Fluid Rotary <input type="checkbox"/> Fluid Rotary <input type="checkbox"/> Service Rig	
5. COUNTY: <u>TRUMBULL</u>		21. PROPOSED CASING PROGRAM:	
6. CIVIL TOWNSHIP: <u>HUBBARD TWP.</u>		11-3/4" FOR 100 FT., 9-3/4" FOR 400 FT CEMENTED TO SURFACE, 7" CEMENTED TO SURFACE	
7. SECTION: <u>35</u> 8. LOT: _____			
9. FRACTION: _____ 10. QTR TWP: _____			
11. TRACT / ALLOT: _____			
12. WELL #: <u>5</u>			
13. LEASE NAME: <u>NORTHSTAR NEXLEV</u>			
14. PROPOSED TOTAL DEPTH: <u>8900</u>			
15. PROPOSED GEOLOGICAL FORMATION: <u>KNOX-CONASAUGA</u>		22. FIRE AND MEDICAL DEPARTMENT TELEPHONE NUMBERS: (closest to well site)	
16. DRILLING UNIT IN ACRES (must be same as acres indicated on plat): <u>3.98</u>		Fire: <u>911</u>	
		Medical: <u>911</u>	
17. IF PERMITTED PREVIOUSLY:		23. MEANS OF INGRESS & EGRESS:	
API #: _____		Township Road: _____	
OWNER: _____		County Road: <u>HUBBARD MASURY RD</u>	
WELL #: _____		Municipal Road: _____	
LEASE NAME: _____		State Highway: <u>S.R. 7</u>	
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: <u>N/A</u>			
Division Phone: _____			
19. LANDOWNER ROYALTY INTEREST:			
Is There An Attached List? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Name: <u>NEXLEV INC.</u>			
Address: <u>7041 TRUCKWORLD BLVD., HUBBARD, OH 44425</u>			
Name: _____			
Address: _____			
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 1501, OAC, and all orders and conditions issued by the Chief, Division of Mineral Resources Management.

Signature of Owner/Authorized Agent: Nicholas Paparodis  
 Name (Type or Print): NICHOLAS PAPANODIS 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 the 3 day of February, 2012



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

Kimberly A. Little  
 (Notary Public)

\_\_\_\_\_  
 (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: 8100 feet to 8900  
 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 13-3/8" conductor, drill to 1010' and set 1010' of 9-5/8" casing with 300 sacks of superlite cement.  
drill 8-3/4" hole from 1010' to 8900' and set 8100' of 7" casing, set casing annulus packer (cap)  
at 8100', cement 7" casing from 8100' with 165 sacks SFL cement.
- B. Proposed method for testing the casing:  
Mechanical Integrity test, then daily monitoring with a chart recorder.
- 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.
- D. Description of the proposed unloading, surface storage, and spill containment facilities:  
Concrete unloading pad  
20 - 500 BBL steel holding and settling tanks contained in a 81'x140' concrete  
containment area with 5'-2" concrete walls.

**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: 3500 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.

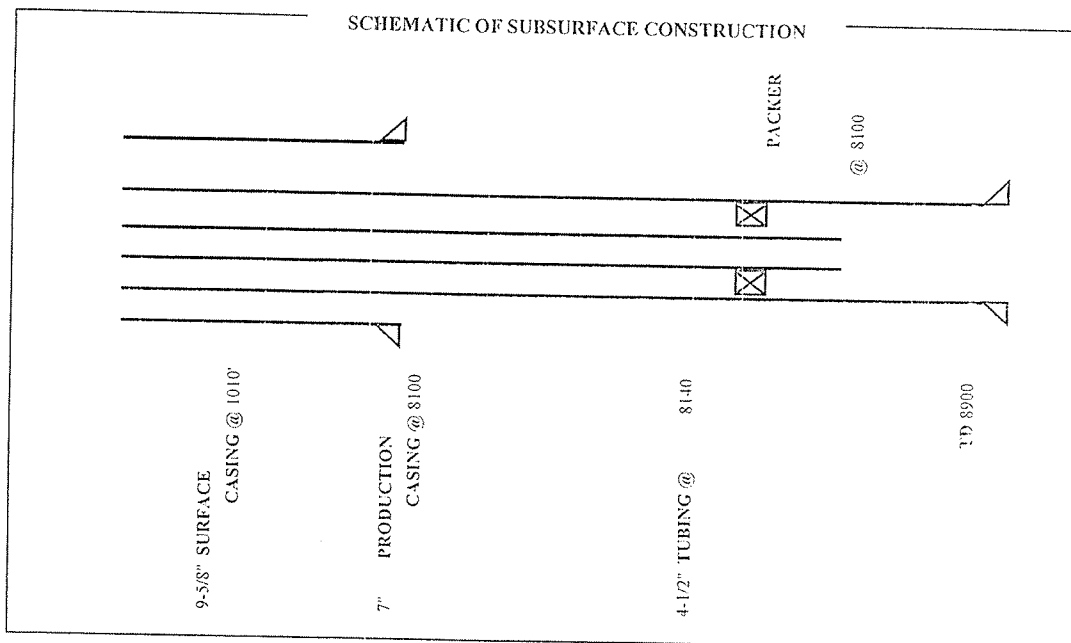
**34. PROPOSED INJECTION PRESSURES**

- 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:
- The subject tract of land on which the proposed injection well is to be located.
  - 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.
  - The geographic location of all wells, penetrating the formation proposed for injection regardless of status, within the area of review.
  - 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.
  - 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. Peperodis

Signature of Owner/Authorized Agent: [Signature] Title: VP LMO

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 3 day of February, 2012.



KIMBERLY A. LITTLE  
MY COMMISSION EXPIRES  
JUNE 1, 2014

[Signature]  
Notary Public  
Date Commission Expires



STATE OF OHIO  
DEPARTMENT OF NATURAL  
RESOURCES

Division of Oil and Gas  
Resources Management  
WELL PERMIT

API WELL NUMBER

34-155-2-4050-00-00

OWNER NAME, ADDRESS

D & L ENERGY INC  
2761 SALT SPRINGS RD  
YOUNGSTOWN OH 44509

DATE ISSUED

12/29/2011

PERMIT EXPIRES

12/28/2012

TELEPHONE NUMBER

(330) 792-9524

IS HEREBY GRANTED PERMISSION TO: Salt Water Injection Well New Well

AND ABANDON WELL IF UNPRODUCTIVE

PURPOSE OF WELL: Water Injection - Disposal

COMPLETION DATE IF PERMIT TO PLUG:

**DESIGNATION AND LOCATION:**

LEASE NAME NORTHSTAR NEXLEV (SWIW #20)  
WELL NUMBER 5  
COUNTY TRUMBULL  
CIVIL TOWNSHIP HUBBARD  
TRACT OR ALLOTMENT  
SURFACE FOOTAGE LOCATION 528' NL & 562' WL OF SECTION 35  
TARGET FOOTAGE LOCATION

**SURFACE NAD27**

**TARGET NAD27**

X: 2532151

Y: 554857

LAT: 41.1734798925319

LONG: -80.5668522384439

**TYPE OF TOOLS:** Air Rotary/Fluid Rotary

PROPOSED TOTAL DEPTH

9300 FEET

GROUND LEVEL ELEVATION

947 FEET

**GEOLOGICAL FORMATION(S):**

KNOX - MT.SIMON

**SPECIAL PERMIT CONDITIONS:** Permit is subject to the attached terms and/or conditions

Samples Requested, see attached letter

Salt Water Injection Well (Class II) Construction and Operating Conditions

**CONDITIONALLY APPROVED CASING PROGRAM (SUBJECT TO APPROVAL OF THE OIL AND GAS WELL INSPECTOR):**

13-3/8 " APPROX. 100 ' WITH CEMENT CIRCULATED TO SURFACE

9-5/8 " APPROX. 1010 ' WITH CEMENT CIRCULATED TO SURFACE

7" CASING 8215' CEMENTED TO A MINIMUM OF 300' ABOVE INJECTION ZONE

4-1/2" TUBING SET ON A PACKER APPROX. 85' ABOVE INJECTION ZONE

This permit is NOT TRANSFERABLE. This permit, or an exact copy thereof, must be displayed in a conspicuous and easily accessible place at the well site before permitted activity commences and remain until the well is completed. Ample notification to inspector is necessary.

**OIL AND GAS WELL INSPECTOR:**

OCHS STEPHEN (330) 933-2090

EUGENE CHINI - Supervisor (330) 284-2942

DISTRICT #: (330) 896-0616

**INSPECTOR NOTIFICATION**

The oil and gas inspector must be notified at least 24 hours prior to:

1. Commencement of site construction
2. Pit excavation and closure
3. Commencement of drilling, reopening, converting or plugback operations
4. Installation and cementing of all casing strings
5. BOP testing
6. Well stimulation
7. Plugging operations

The oil and gas inspector must be notified immediately upon:

1. Discovery of defective well construction
2. Detection of any natural gas or H2S gas during drilling in urban areas
3. Discovery of defective well construction during well stimulation
4. Determination that a well is a lost hole
5. Determination that a well is a dry hole

**FIRE AND EMERGENCY NUMBERS**

FIRE: ( ) - 911

MEDICAL SERVICE ( ) - 911

**Richard J. Simmers**

CHIEF, Division of Oil and Gas Resources  
Management

**STATE OF OHIO**  
**DEPARTMENT OF NATURAL RESOURCES**

Under the authority of, and in accordance with Section 1509.10 of the Ohio Revised Code, the Division of Geological Survey hereby requests a set of drill cuttings from the following well:

Operator D & L Energy, Inc. Phone No. (330) 792-9524

Lease Name/Well # North Star Nexleu # 5 (SWIW # 20) Permit No. 2-4050

Located in (surface): 528'NL & 562'WL of Section 35

Of Hubbard Township, Trumbull County

Drill cuttings are to be collected from the following intervals: **Surface to Total Depth**

The Survey requests that the following minimum amounts of cuttings be collected:

Vertical hole-fluid: samples every 10 ft., 25 grams dried

Or vertical hole-fluid: samples every 10 ft., 100 grams unwashed

Vertical hole-air: samples every 50 ft., 25 grams dried

Horizontal portion of hole: samples every 90 ft., 25 grams dried

Cuttings are to be marked to identify the well and depth of each interval.

Delivery of the cuttings or notification of availability is the responsibility of the operator of the well. These cuttings can be delivered in person or shipped to the Ohio Division of Geological Survey, 2045 Morse Road, Building C-1, Columbus, Ohio 43229-6693 or the Ohio Division of Geological Survey, 3307 South Old State Road, Delaware, Ohio 43015-9454. If you cannot deliver the cuttings, please notify Greg Schumacher at (740) 548-7348, Extension 125, Monday through Friday 8:00 AM-5:00 PM, as soon as possible after the drilling has been completed, so that arrangements can be made to pick up the cuttings at the well site.

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Larry Wickstrom, Chief  
ODNR-The Division of Geological Survey

12/29/2011

Date

**STATE OF OHIO**  
**DEPARTMENT OF NATURAL RESOURCES**

Under the authority of, and in accordance with Section 1509.10 of the Ohio Revised Code, the Division of Geological Survey hereby requests a set of drill cuttings from the following well:

Operator D & L Energy, Inc. Phone No. (330) 792-9524

Lease Name/Well # North Star Nexleu # 5 (SWIW # 20) Permit No. 2-4050

Located in (surface): 528'NL & 562'WL of Section 35

Of Hubbard Township, Trumbull County

Drill cuttings are to be collected from the following intervals: **Surface to Total Depth**

The Survey requests that the following minimum amounts of cuttings be collected:

Vertical hole-fluid: samples every 10 ft., 25 grams dried

Or vertical hole-fluid: samples every 10 ft., 100 grams unwashed

Vertical hole-air: samples every 50 ft., 25 grams dried

Horizontal portion of hole: samples every 90 ft., 25 grams dried

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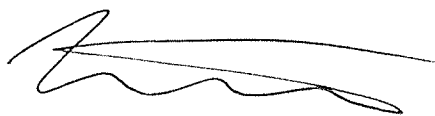
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12/29/2011

Date

**APPLICATION CHECKLIST**

Drumhull Co., Artificial Prop.

SWW # 20, New well

Permit # 4050

Knox - Mt. Summit

	Date	Initials
Enter on Agenda	9/26/11	JD
Completeness Review	9/28/11	JD
Date - Time Stamp	9/29/11	JD
Area of Review	10/11/11	JD
Site Evaluation	10/26/11	JD
Permitting Section	9/28/11	JD
Memo to Inspector	10/20/11	JD
Public Notice	10/20/11	JD
Letter	10/20/11	
Date Run	10/27/11	
15 Days	11/11/11	
Review Public Notice	11/17/11	JD
Affidavit of Notification	10/19/11	JD
Objections Received	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	JD
Public Hearing Date	11/15/11	JD
Chief's Order, if Required	12/13/11	JD
Schematic	N/A	JD
Plot on Map	10/25/11	JD
Review by Geologist	10/11/11	JD
Permit Conditions (Same date as permit)	12/29/11	JD
Enter on Computer (Same or later date than Chief's Order)	12/29/11	JD
Enter on Master List	12/29/11	JD
EPA Form	10/11/11	JD
Mail Permit	10/20/11	JD
Update Agenda	12/29/11	JD
File	12/29/11	JD

**RECORD OF CONVERSATION**

Received SWW affidavit on 10/19/11 JD

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# Proof Sheet

APPL NUMBER	aAMY0000420	URBANIZED AREA ?	<input checked="" type="checkbox"/>
OWNER NUMBER	2651	NAME	HUBBARD TWP
OWNER NAME	D & L ENERGY INC		
EXISTING WELL	0		
API PERMIT NO		DISPOSAL PLAN 1	ND
APPL TYPE	SWIW	DISPOSAL PLAN 2	
TYPE OF WELL	SWD	DISPOSAL PLAN 3	
VARIANCE REQUEST		DISPOSAL PLAN 4	
WELL NAME	NORTHSTAR NEXLEV <i>(surwt 38)</i>	DISPOSAL PLAN 5	
WELL NUMBER	5	MP Check #	0
PREV/PROPOSED TD	9300		
DRILL UNIT ACRES	3.98		
TYPE OF TOOL	RTAF	<b>PROPOSED FORMATIONS</b>	
WELL CLASS	<i>SWIW</i>	KNOX - <del>PRECAMBRIAN</del>	
FIRE PHONE	( ) - 911	<i>NA, Simon</i>	
MEDICAL PHONE	( ) - 911		
COUNTY CODE	155		
COUNTY NAME	TRUMBULL		
COAL (Y=-1/N=0)	-1		
CIVIL TOWNSHIP	HUBBARD	TARG CIVIL TWP	
SURF QUAD	SHARON WEST	TARG QUAD	
Nad 27 SURF ORIG X	<i>2532151</i>	Nad 27 TARG ORIG X	
Nad 27 SURF ORIG Y	<i>554856</i>	Nad 27 TARG ORIG Y	
GROUND ELEVATION	947	TARG ELEV	0
SURF SEC	<i>35</i>	TARG SECTION	
SURF LOT		TARG LOT	
SURF QTR TWP		TARG QTR TWP	
SURF ALLOT		TARG ALLOT	
SURF TRACT		TARG TRACT	
SURF FRACTION		TARG FRACTION	





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>	10/26/11	<b>Modification Date (if applicable)</b>
<b>Company</b>	D & L Energy, Inc.	<b>Lease Name/Well #</b>		Northstar Nexlev #5 (SWIW #20)
<b>County</b>	Trumbull	<b>Township</b>		Hubbard
<b>Section/Lot</b>	Section 35	<b>Urban Area</b>		Hubbard Township
<b>Inspected By</b>				Stephen Ochs
<b>Accompanied By</b>	Nick Paparodis (Company)			

**Directions to Location** I 80 and State Route 7, 500 feet East on Hubbard Masury Road, South side of road

ITEM	LEASE ROAD, WELL SITE CONSTRUCTION	Comments:
1	<b>Tree/Brush Removal/Disposition</b>	Some brush and small trees need removed
2	<b>Topsoil Removal/Stockpiles/Placement</b>	Recommend topsoil be stockpiled North of well
3	<b>Erosion/Sediment Control (Silt Fence, Berms)</b>	Silt fence along south and 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>	A durable surface will be maintained on the lease road.
7	<b>Pull Off Area</b>	Well site
8	<b>Parking</b>	Well site
9	<b>GPS – Access Road</b>	N 41.17459 W 80.56646
10	<b>GPS – Well Stake</b>	N 41.17356 W 80.56666
11	<b>GPS – Tank Battery</b>	N 41.17395 W 80.56665