

APPLICATION CHECKLIST



Mahony Co. SWIN#10, Permit #3127, Youngstown Twp.
North Star #1 Knox-Int. Simon

	Date	Initials
Enter on Agenda	6/10/10	MS
Completeness Review	6/10/10	MS
Date - Time Stamp	6/10/10	MS
Area of Review	6/16/10	MS
Site Evaluation	6/22/10	MS
Permitting Section	6/10/10	MS
Memo to Inspector	6/16/10	MS
Public Notice	6/17/10	MS
Letter	6/17/10	
Date Run	6/24/10	
15 Days	7/9/10	
Review Public Notice	7/8/10	MS
Affidavit of Notification	6/8/10	MS
Objections Received	Yes _____ No <u>X</u>	MS
Public Hearing Date	N/A	MS
Chief's Order, if Required	N/A	MS
Schematic	6/16/10	MS
Plot on Map	6/16/10	MS
Review by Geologist	7/8/10	MS
Permit Conditions (Same date as permit)	7/12/10	MS
Enter on Computer (Same or later date than Chief's Order)	7/12/10	MS
Enter on Master List	6/16/10	MS
EPA Form	6/16/10	MS
Mail Permit	7/12/10	MS
Update Agenda	7/12/10	MS
File	7/12/10	MS

RECORD OF CONVERSATION

* 6/16/10 - Need SWIN affidavit - Mailed 6/17/10 MS

COMPLETENESS REVIEW

Affidavit of Ownership

Name and address of owner with:

a. owner number

b. bond

c. authorized agent

Names and addresses of royalty interest holders in the subject tract

Fire and medical phone numbers

Means of ingress and egress

Restoration plan

SUPPLEMENT

Proposed injection zone

d. geological formation name

e. injection interval

f. description of zone

Description of well construction and operation

Proposed method for testing the casing

Description of unloading surface storage and spill containment facilities

Minimum and maximum volumes to be injected

Minimum and maximum pressures to be utilized

Method to be used to measure the actual amount of saltwater injected

Method to be used to measure the actual daily injection pressure

NOTIFICATION

g. Proof of notification

h. End of 15-day response period for objections

MAP OF MAPS

Outline of subject tract

Original Ohio surveyor's plat with all required information to include proper footage measurements, Ohio plane coordinates, elevation and section or lot

Map of area of review with all well locations of wells injecting into or producing from the injection formation

Map labeled with those owners or royalty interest owners of record according to notification procedure to be used.

INTER-OFFICE MEMO

TO: Carl Roberts, Mineral Resources Inspector
FROM: Tom Tomastik, Geologist *TT*
SUBJECT: Application and Site Evaluation for a SWIW permit
DATE: June 16, 2010

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: North Star #1
PERMIT NUMBER: 4086
LOCATION: 3372'NL & 4080' EL of Youngstown Twp., Mahoning County
PROPOSED INJECTION ZONE: Knox Dolomite to Mt. Simon Sandstone
DATE RECEIVED: June 10, 2010

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.

Ohio Department of Natural Resources
Division of Mineral Resources
Management
Facility Report

API Well No.

34099231270000

Project:

County: **MAHONING** Twp **YOUNGSTOWN** Sec: **0** Lot: **0** WI Typ: **OG**

D & L ENERGY INC

Resp Co

Well Name: **NORTH STAR 1** No.: WH_LA1 **41.120140** WH_LONG: **-80.683010**

Directions to site: **Salt Springs road south. Division street east approx. 0.40 miles. Access is on the south side, through the gate of Youngstown Sinter Co.**

Inspection Type: **Salt Water Injection Well** Contact: Phone
Address

Inspection Purpose: **Request**

Type of Notification Contact **ROBERTS CARL**

Inspection Comments:

This is a request from Tom Tomastik to inspect the well site area for potential water wells or surface bodies of water within the proximity of the SWIW. Mahoning river is to the east of the SWIW. There are 2 wells, one on the south side and one to the north of the SWIW (permit numbers 586 and 2965). This area is in a industrial park. There is a steel mill to the northeast and a steel recycling plant to the north. The industrial park is to the south. All have Youngstown city water. There are houses to the west of the industrial park. The houses are on Youngstown city water and are some 1,200 feet from the wellhead. The SWIW is in a old slag plant area. The Youngstown Sinter Company has a chain link fence with barber wire on top around the area of the wellhead. I have no recommendations at this time.

Accompanied by _____

INJECTIONPRESSUR Vac ANNULUSPRESSURE: Vac FLOWMETER: Vac

HAULERNO: LISCENSE_NUM:

LANDOWNERWAIVER: P_REST_PASS: F_REST_PASS:

Inspection Date: **6/22/2010**

Signature: _____
ROBERTS CARL

Date notice of violation Issued:

Required action to be completed by:

Reviewed by: _____

Extended action due:

Forward to: _____

Required action completed:

Duration: _____ hrs Section/Name



*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

Date: July 6, 2010

To: Tom Tomastik, Geologist
Technical Support Services Section
ODNR - Division of Mineral Resources Management

From: Kimberly Little
Land Administration

Subject: Permit #3127, SWIW #10, North Star #1

Please find enclosed the following information for the North Star #1 well:

1. Saltwater Injection Well – Affidavit
2. Public Notice - original proof-of-publication from the newspaper

Should you need anything further please contact Nick Paparodis at 330-792-9524, extension 132.

Thank you.

RECEIVED

JUL 7 2010

DIVISION OF MINERAL
RESOURCES MANAGEMENT

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,

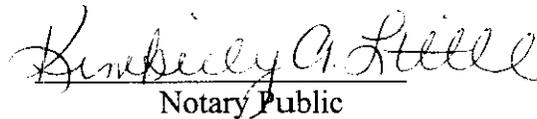
MAHONING County, YOUNGSTOWN ^{CITY} Township, section/lot number _____ ; and

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.



Affiant Signature

Sworn to before me and subscribed in my presence this 8th day of June,
2010.


Notary Public



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



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

June 8, 2010

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

Re: North Star No. 1 Well No. 34-099-2-3127-00-00
Conversion to Salt Water Injection Well Permit Application

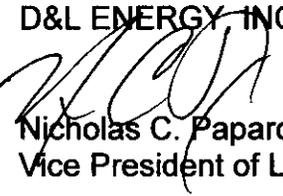
Dear Tom:

Enclosed please find all pertinent documentation in regard to the above referenced subject, along with check #20145 in the amount of \$100.00.

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

Very truly yours,

D&L ENERGY, INC.


Nicholas C. Paparodis
Vice President of Land Operations

RECEIVED

JUN 10 2010

DIVISION OF MINERAL
RESOURCES MANAGEMENT

/kl

Enclosures



Ohio Department of Natural Resources

TED STRICKLAND, GOVERNOR

SEAN D. LOGAN, 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 17, 2010

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

RE: Public Notification for SWIW application for D & L Energy, Inc., Mahoning County, Youngstown Twp., Permit #3127, SWIW#10, North Star #1 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 that reads "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



6.07.10

DISPOSAL WELL PROJECT									
PUMP AND STORAGE SIMULATION									
PARAMETERS									
FROM TRUCKS									
FROM FILTRATION									
FROM INJECTION PUMP									
ROUTING 2000 BBL/DAY									
ROUTING	INFLOW	VOLUME	LEVEL IN DIRTY	FILTER	VOLUME	LEVEL IN CLEAN	PUMP	VOLUME	
HOUR	RATE	GALLONS	WATER TANK	RATE	GALLONS	WATER TANK	RATE	GALLONS	
	GPM		FT	GPM		FT	GPM		
1	300	0	3.00	116	0	3.00	58.33	3499.8	
2	300	10500	4.05	116	6960	3.00	58.33	3499.8	
3	300	10500	5.09	116	6960	4.02	58.33	3499.8	
4	300	10500	6.14	116	6960	5.05	58.33	3499.8	
5	300	10500	7.19	116	6960	6.07	58.33	3499.8	
6	300	10500	8.24	116	6960	7.09	58.33	3499.8	
7	300	10500	9.28	116	6960	8.12	58.33	3499.8	
8	300	10500	10.33	116	6960	9.14	58.33	3499.8	
9	300	10500	11.38	116	6960	10.16	58.33	3499.8	
10	300	10500	12.42	116	6960	11.19	58.33	3499.8	
11	300	10500	13.47	116	6960	12.21	58.33	3499.8	
12	300	10500	14.52	116	6960	13.23	58.33	3499.8	
13	300	10500	15.56	116	6960	14.26	58.33	3499.8	
14	300	10500	16.61	116	6960	15.28	58.33	3499.8	
15	0	10500	17.66	116	6960	16.30	58.33	3499.8	
16	0	0	15.60	116	6960	17.33	58.33	3499.8	
17	0	0	14.06	0	5220	17.84	58.33	3499.8	
18	0	0	14.06	0	0	16.80	58.33	3499.8	
19	0	0	14.06	0	0	15.77	58.33	3499.8	
20	0	0	14.06	0	0	14.73	58.33	3499.8	
21	0	0	14.06	0	0	13.70	58.33	3499.8	
22	0	0	14.06	0	0	12.66	58.33	3499.8	
23	0	0	14.06	0	0	11.63	58.33	3499.8	
24	0	0	14.06	0	0	10.59	58.33	3499.8	
TOTALS		147000			109620			83995.2	
		3500	BBL		2610	BBL		2000	BBL

TO DIRTY WATER STORAGE 4-400BBL TANKS
 TO CLEAN WATER STORAGE 4-400BBL TANKS
 TO WELL

OPERATOR DAL Energy, Inc.

COUNTY Maharaj

TOWNSHIP Youngstown

P & A FH Permit
 Number
 Knox-Mts 3127
Summit

Casing
Program / Cement

Well Log and/or Method of Plug

8 5/8" - 1010' - cemented to surface

5 1/2" - 8215' - cemented w/ 165 sacks

Calculated fill-up = 1123' - TDC = 7092'

CL 437

Not drilled

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

3118
10

3119
10

20437
C*

V
3127
C

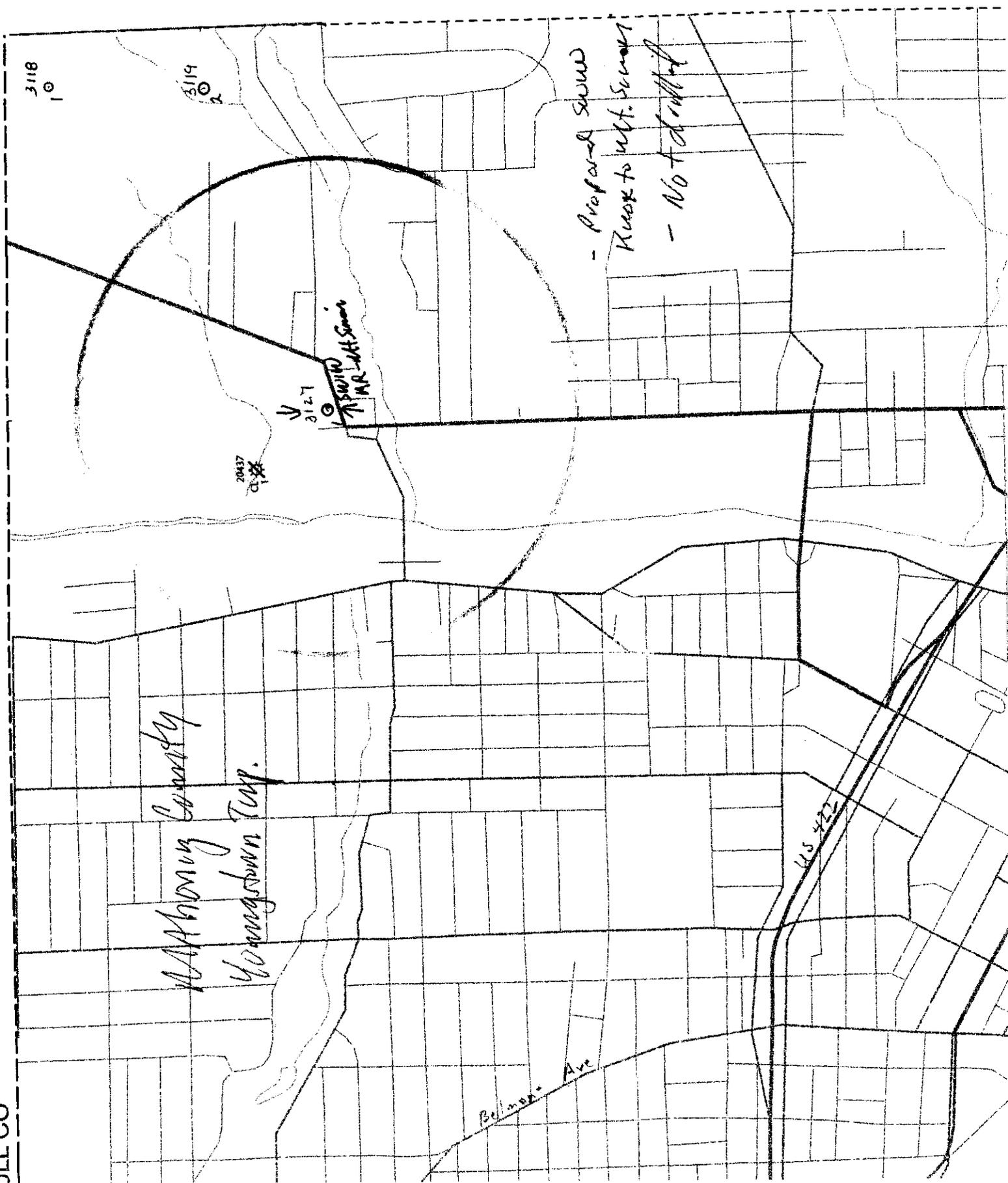
W. MOUNTAIN
TR. - Mt. Summit

Anthony County
Youngstown Twp.

Belmont Ave

115 422

- Prepared Survey
Access to Mt. Summit
- Not drilled

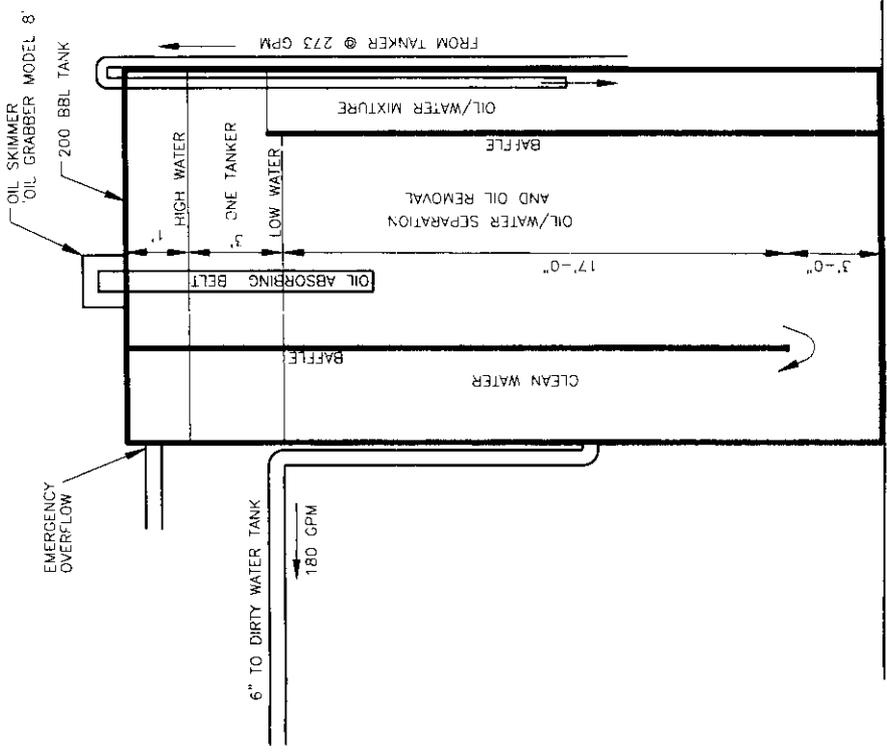


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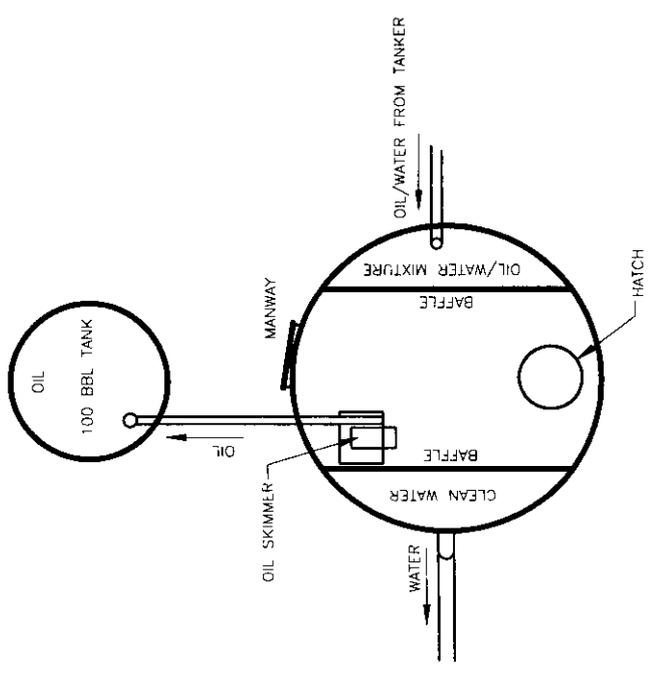
JUN 10 2010

DIVISION OF MINERAL
 RESOURCES MANAGEMENT

ELEVATION



PLAN VIEW



WELL LOCATION PLAN

Latitude: 41° 07' 12.47"

NORTH: 534746

Longitude: 80° 40' 58.81"

EAST: 2469074

G.L. 18

G.L. 19, T2, R2



LEGEND:

- ⊙ PROPOSED OIL & GAS WELL
- NEW LOCATION



Surveyor or Engineer GARY TANERI Phone # 330-207-5502		Date REV. 4/09/10 MARCH 23, 2010	Scale 1"=400'	Acreege 41.763
Lat. & Long Metadata Method GPS	Accuracy 3 ft.	Datum NAD83	Elevation Metadata Method USGS	Accuracy 10 ft. Datum NGVD29 Survey Date 3/15/10
Applicant / Well Operator Name D & L ENERGY, INC.		Well(Farm) Name NORTH STAR	Well # 1	
Address 2761 SALT SPRINGS ROAD YOUNGSTOWN, OH 44509		County MAHONING	Municipality YOUNGSTOWN TOWNSHIP Urbanized Area CITY OF YOUNGSTOWN	
Surface Landowner BRIER HILL SLAG		USGS 71/2 Quadrangle Map Name YOUNGSTOWN		
Surface Lessor D & L ENERGY, INC.		Angle & Course of Deviation (Drilling) VERTICAL	Surface Elevation 861 ft.	Anticipated Total Depth 9300 ft.

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.

[Signature] **GARY RICHARD TANERI** Date **6.28.10**
Registered Professional Surveyor No. 7672



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

APPLICATION FOR A PERMIT (Form 1) # 20145 00

OHIO DEPARTMENT OF NATURAL RESOURCES
 DIVISION OF MINERAL RESOURCES MANAGEMENT
 2045 Morse Road, Building H-3
 COLUMBUS, OHIO 43229-6693
 (614) 265-6633

100.00
 2014018311
RECEIVED

SEE INSTRUCTIONS ON PAGE 2 (BACK)

1. I, We (applicant) <u>D&L Energy, Inc.</u> 2. Owner #: <u>JUN 10 2010</u> 2651	
(address) <u>2761 Salt Springs Rd., Youngstown, Oh. 44509</u> Phone #: <u>330-792-9524</u>	
hereby apply this date <u>8-Jun</u> , 20 <u>10</u> for a permit to:	
DIVISION OF MINERAL RESOURCES MANAGEMENT	
<input type="checkbox"/> Reissue (check appropriate blank) <input type="checkbox"/> Revised Location & Reissue <input type="checkbox"/> Drill New Well <input type="checkbox"/> Plug Back <input type="checkbox"/> Drill Directionally <input type="checkbox"/> Plug and Abandon <input type="checkbox"/> Drill Horizontally <input type="checkbox"/> Orphan Well Program	
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"/> Storage of: _____ <input type="checkbox"/> Other (explain): _____ <input type="checkbox"/> Solution Mining* <input type="checkbox"/> Enhanced Recovery* * check appropriate box below <input type="checkbox"/> Input/Injection <input type="checkbox"/> Water Supply <input type="checkbox"/> Production/Extraction <input type="checkbox"/> Observation	
4. MAIL PERMIT TO: same as above	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 Rotary & Fluid Rotary
5. COUNTY: <u>Mahoning</u>	21. PROPOSED CASING PROGRAM: 100' of 16" 1110' of 8 5/8" cemented to surface 8215' of 5 1/2"
6. CIVIL TOWNSHIP: <u>City of Youngstown</u>	
7. SECTION: <u>8</u> LOT: _____	
9. FRACTION: _____ 10. QTR TWP: _____	
11. TRACT/ALLOT: _____	
12. WELL #: <u>One</u>	
13. LEASE NAME: <u>North Star</u>	
14. PROPOSED TOTAL DEPTH: <u>9184'</u>	
15. PROPOSED GEOLOGICAL FORMATION: <u>Knox - Precambrian</u>	
16. DRILLING UNIT IN ACRES (must be same as acres indicated on plat): <u>41.763</u>	
17. IF PERMITTED PREVIOUSLY: API #: <u>34-099-2-3127-00-00</u> OWNER: <u>D&L Energy, Inc.</u> WELL #: <u>One</u> LEASE NAME: <u>North Star</u> TOTAL DEPTH: <u>10000</u> GEOLOGICAL FORMATION: <u>Mt. Simon</u>	22. FIRE AND MEDICAL DEPARTMENT TELEPHONE NUMBERS: (closest to well site) Fire: <u>911</u> Medical: <u>911</u>
18. IF SURFACE RIGHTS ARE OWNED BY THE OHIO DEPARTMENT OF NATURAL RESOURCES: Division Name: _____ Division Phone: _____	23. MEANS OF INGRESS & EGRESS: Township Road: _____ County Road: _____ Municipal Road: _____ <u>Ohio Works Drive</u> State Highway: _____
19. LANDOWNER ROYALTY INTEREST: Is There An Attached List? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name: <u>Brier Hill Slag</u> Address: <u>18 Houge St., Youngstown, Ohio 44502</u> Name: <u>Graybar</u> Address: <u>P.O. Box 7231, St. Louis, MO 63177</u> Name: _____ Address: _____	24. IS THE WELL LOCATION OR PRODUCTION FACILITIES WITHIN AN URBANIZED AREA AS DEFINED BY 1509.03 ? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 25. WILL THE PROPOSED LOCATION OF THIS WELL REQUIRE THE NOTICE SPECIFIED UNDER 1509.06 (I) ? <input type="checkbox"/> Yes (Submit Copies) <input checked="" type="checkbox"/> No

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 557.12 of the Ohio Revised Code (ORC), and that the notice required under Section 1509.06 (I), ORC has been given. 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 to all orders and rules issued by the Chief, Division of Mineral Resources Management.

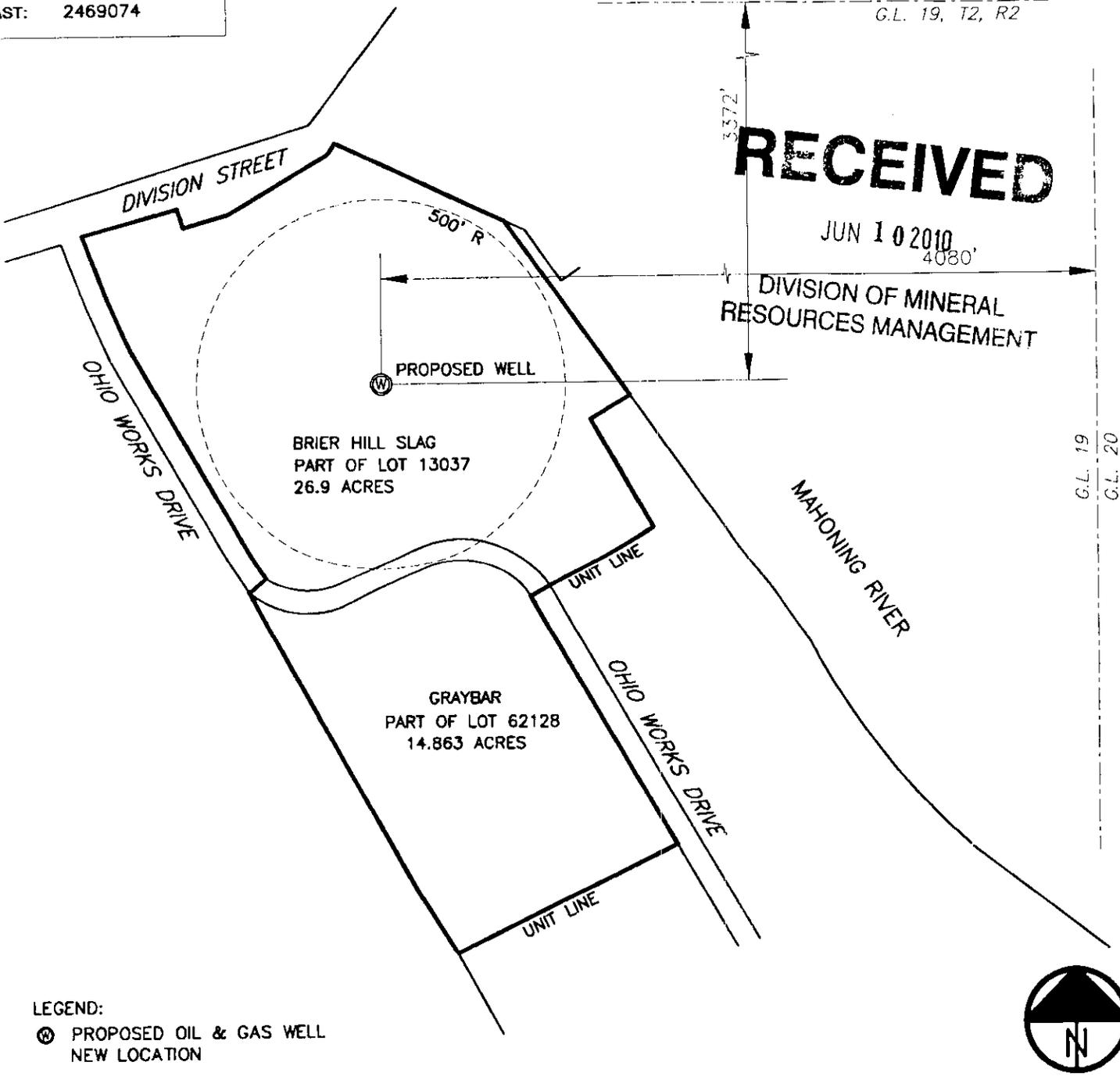
Signature of Owner/Authorized Agent: [Signature]
 Name (Type or Print) Nicholas C. Paparodis Title Vice President of Land Operations

If signed by Authorized Agent, a certificate of appointment of agent must be on file.
 Sworn to and subscribed before me this the 8th day of June, 2010
[Signature]
 (Notary Public)
KIMBERLY A. LITTLE
 MY COMMISSION EXPIRES
JUNE 1, 2014

Latitude: 41° 07' 12.47" NORTH: 534746
 Longitude: 80° 40' 58.81" EAST: 2469074

WELL LOCATION PLAT

G.L. 18
 G.L. 19, T2, R2



RECEIVED

JUN 10 2010
 4080'

DIVISION OF MINERAL
 RESOURCES MANAGEMENT

G.L. 19
 G.L. 20

LEGEND:

- ⊙ PROPOSED OIL & GAS WELL
- NEW LOCATION



Surveyor or Engineer GARY TANERI	Phone # 330-207-5502	Date REV. 4/09/10 MARCH 23, 2010	Scale 1" = 400'	Acres 41.763
Lat. & Long Metadata Method GPS Accuracy 3 ft. Datum NAD83		Elevation Metadata Method USGS Accuracy 10 ft. Datum NGVD29		Survey Date 3/15/10
Applicant / Well Operator Name D & L ENERGY, INC.		Well (Farm) Name NORTH STAR		Well # 1
Address 2761 SALT SPRINGS ROAD YOUNGSTOWN, OH 44509		County MAHONING	Municipality YOUNGSTOWN TOWNSHIP Urbanized Area CITY OF YOUNGSTOWN	
Surface Landowner BRIER HILL SLAG		USGS 7 1/2 Quadrangle Map Name YOUNGSTOWN		
Surface Lessor D & L ENERGY, INC.		Angle & Course of Deviation (Drilling) VERTICAL	Surface Elevation 861 ft.	Anticipated Total Depth 9300 ft.

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.

[Signature]
 Gary Richard Taneri
 Registered Professional Surveyor No. 7672
 Date
6, 28, 10



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

RESTORATION PLAN (Form 4)

Ohio Department of Natural Resources

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

<p>1. DATE OF APPLICATION: 8-Jun-10</p>																
<p>2. OWNER NAME, ADDRESS, & TELEPHONE NO.: D & L ENERGY, INC 2761 SALT SPRINGS ROAD YOUNGSTOWN, OH 44509 330-792-9524</p>	<p>3. API #: _____</p> <p>4. WELL #: 1</p> <p>5. LEASE NAME: NORTH STAR</p> <p>6. PROPERTY OWNER: BRIER HILL SLAG</p> <p>7. COUNTY: MAHONING</p> <p>8. CIVIL TOWNSHIP: CITY OF YOUNGSTOWN</p> <p>9. SECTION: _____ 10. LOT: _____</p>															
<p>11. CURRENT LAND USE:</p> <table style="width:100%;"> <tr> <td><input type="checkbox"/> Cropland</td> <td>Commercial</td> </tr> <tr> <td><input type="checkbox"/> Pasture</td> <td>Idle Land</td> </tr> <tr> <td><input type="checkbox"/> Wetlands</td> <td>Recreational</td> </tr> <tr> <td><input type="checkbox"/> Residential</td> <td>Industrial</td> </tr> <tr> <td><input type="checkbox"/> Unreclaimed strip mine</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Woodland: <input type="checkbox"/> roadleaf <input type="checkbox"/> Needlelike</td> <td></td> </tr> </table>	<input type="checkbox"/> Cropland	Commercial	<input type="checkbox"/> Pasture	Idle Land	<input type="checkbox"/> Wetlands	Recreational	<input type="checkbox"/> Residential	Industrial	<input type="checkbox"/> Unreclaimed strip mine		<input type="checkbox"/> Woodland: <input type="checkbox"/> roadleaf <input type="checkbox"/> Needlelike		<p>17. TYPE OF WELL:</p> <p align="center"> <input type="checkbox"/> Oil <input type="checkbox"/> Gas <input checked="" type="checkbox"/> Other </p>			
<input type="checkbox"/> Cropland	Commercial															
<input type="checkbox"/> Pasture	Idle Land															
<input type="checkbox"/> Wetlands	Recreational															
<input type="checkbox"/> Residential	Industrial															
<input type="checkbox"/> Unreclaimed strip mine																
<input type="checkbox"/> Woodland: <input type="checkbox"/> roadleaf <input type="checkbox"/> Needlelike																
<p>12. SLOPE GRADIENT & LENGTH DETERMINED FROM:</p> <p><input type="checkbox"/> Ground Measurement</p> <p><input checked="" type="checkbox"/> U.S. Geological Survey Topographical Maps</p> <p><input type="checkbox"/> Other: (explain) _____</p>	<p>18. STEEPEST SLOPE GRADIENT CROSSING SITE:</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>13. TYPE OF FALL VEGETAL COVER:</p> <p><input type="checkbox"/> Little or no vegetal cover</p> <p><input type="checkbox"/> Short grasses</p> <p><input checked="" type="checkbox"/> Tall weeds or short brush (1 to 2 ft.)</p> <p><input checked="" 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>19. LENGTH OF STEEPEST SLOPE CROSSING SITE:</p> <p><input type="checkbox"/> 1 to 100 ft. <input type="checkbox"/> 101 to 200 ft.</p> <p><input type="checkbox"/> 201 to 400 ft. <input checked="" type="checkbox"/> greater than 400 ft.</p>															
<p>14. SOIL & RESOILING MATERIAL AT WELLSITE:</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>20. RESTORATION OF DRILLING PITS: **</p> <p><input checked="" type="checkbox"/> Haul drilling pits and fill pits</p> <p><input type="checkbox"/> Use steel circulating tanks</p> <p><input type="checkbox"/> Proposed alternative _____</p>															
<p>15. DISPOSAL PLAN FOR TREES AND TREE STUMPS:</p> <table style="width:100%;"> <tr> <td><input checked="" type="checkbox"/> No trees disturbed</td> <td><input type="checkbox"/> Haul to landfill</td> </tr> <tr> <td><input type="checkbox"/> Cut into firewood</td> <td><input type="checkbox"/> Sell to lumber company</td> </tr> <tr> <td><input type="checkbox"/> Bury with landowner's approval</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Mulch small trees and branches, erosion control</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Use for wildlife habitat with landowner approval</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Proposed alternative _____</td> <td></td> </tr> </table>	<input checked="" type="checkbox"/> No trees disturbed	<input type="checkbox"/> Haul to landfill	<input type="checkbox"/> Cut into firewood	<input type="checkbox"/> Sell to lumber company	<input type="checkbox"/> Bury with landowner's approval		<input type="checkbox"/> Mulch small trees and branches, erosion control		<input type="checkbox"/> Use for wildlife habitat with landowner approval		<input type="checkbox"/> Proposed alternative _____		<p>21. BACKFILLING AND GRADING AT SITE:</p> <p><input type="checkbox"/> Construct diversion channels of nearby 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 & control offsite runoff</p> <p><input type="checkbox"/> Proposed alternative _____</p>			
<input checked="" type="checkbox"/> No trees disturbed	<input type="checkbox"/> Haul to landfill															
<input type="checkbox"/> Cut into firewood	<input type="checkbox"/> Sell to lumber company															
<input type="checkbox"/> Bury with landowner's approval																
<input type="checkbox"/> Mulch small trees and branches, erosion control																
<input type="checkbox"/> Use for wildlife habitat with landowner approval																
<input type="checkbox"/> Proposed alternative _____																
<p>16. SURFACE AND SUBSURFACE DRAINAGE FACILITIES:</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>22. VEGETATIVE COVER TO BE ESTABLISHED AT SITE:</p> <table style="width:100%;"> <tr> <td><input type="checkbox"/> Seeding plan</td> <td><input type="checkbox"/> Sod</td> </tr> <tr> <td><input type="checkbox"/> Agricultural crops</td> <td><input type="checkbox"/> Trees and/or Bushes</td> </tr> <tr> <td><input checked="" type="checkbox"/> Proposed alternative</td> <td>GRAVEL</td> </tr> </table>	<input type="checkbox"/> Seeding plan	<input type="checkbox"/> Sod	<input type="checkbox"/> Agricultural crops	<input type="checkbox"/> Trees and/or Bushes	<input checked="" type="checkbox"/> Proposed alternative	GRAVEL									
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<input checked="" type="checkbox"/> Proposed alternative	GRAVEL															
<p>17. TYPE OF WELL:</p> <p align="center"> <input type="checkbox"/> Oil <input type="checkbox"/> Gas <input checked="" type="checkbox"/> Other </p>	<p>23. ADDITIONAL HOLES:</p> <p><input checked="" type="checkbox"/> Rat/Mouse, if used, will be plugged</p>															
<p>18. STEEPEST SLOPE GRADIENT CROSSING SITE:</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>24. PROPOSED OR CURRENT LENGTH OF ACCESS ROAD:</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>19. LENGTH OF STEEPEST SLOPE CROSSING SITE:</p> <p><input type="checkbox"/> 1 to 100 ft. <input type="checkbox"/> 101 to 200 ft.</p> <p><input type="checkbox"/> 201 to 400 ft. <input checked="" type="checkbox"/> greater than 400 ft.</p>	<p>25. CURRENT LAND USE OF PATH OF ACCESS ROAD:</p> <table style="width:100%;"> <tr> <td><input type="checkbox"/> Cropland</td> <td><input type="checkbox"/> Pasture</td> <td><input type="checkbox"/> Commercial</td> </tr> <tr> <td><input type="checkbox"/> Idle land</td> <td><input type="checkbox"/> Wetlands</td> <td><input type="checkbox"/> Recreational</td> </tr> <tr> <td><input checked="" type="checkbox"/> Industrial</td> <td><input type="checkbox"/> Residential</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Unreclaimed strip mine</td> <td></td> <td></td> </tr> <tr> <td><input type="checkbox"/> Woodland: <input type="checkbox"/> roadleaf <input type="checkbox"/> Needlelike</td> <td></td> <td></td> </tr> </table>	<input type="checkbox"/> Cropland	<input type="checkbox"/> Pasture	<input type="checkbox"/> Commercial	<input type="checkbox"/> Idle land	<input type="checkbox"/> Wetlands	<input type="checkbox"/> Recreational	<input checked="" type="checkbox"/> Industrial	<input type="checkbox"/> Residential		<input type="checkbox"/> Unreclaimed strip mine			<input type="checkbox"/> Woodland: <input type="checkbox"/> roadleaf <input type="checkbox"/> Needlelike		
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<input type="checkbox"/> Woodland: <input type="checkbox"/> roadleaf <input type="checkbox"/> Needlelike																

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**PITS MUST BE FILLED WITHIN FIVE MONTHS AFTER COMMENCEMENT OF THE WELL. REQUIRED BY SECTION 1509.06 (L), OHIO REVISED CODE - FAILED TO SUBMIT MAY RESULT IN AN ASSESSMENT OF CRIMINAL FINES NOT LESS THE \$100.00 NOR MORE THAN \$2,000.00 OR CIVIL PENALTIES NOT LESS THEN \$4,000.00.

<p>26. SURFACING MATERIAL FOR ACCESS ROAD:</p> <p><input type="checkbox"/> Gravel <input type="checkbox"/> Brick and/or tile waste</p> <p><input type="checkbox"/> Slag <input type="checkbox"/> Crushed stone</p> <p><input checked="" type="checkbox"/> No surfacing material to be used</p> <p><input type="checkbox"/> Proposed alternative</p>	<p>29. STEEPEST SLOPE GRADIENT ON ACCESS ROAD:</p> <p><input checked="" type="checkbox"/> 0 to 5%</p> <p><input type="checkbox"/> 6 to 10%</p> <p><input type="checkbox"/> greater than 10%</p>
<p>27. PATH OF ACCESS ROAD TO BE DETERMINED BY:</p> <p><input type="checkbox"/> Landowner <input type="checkbox"/> Contractor</p> <p><input type="checkbox"/> Existing access road <input checked="" type="checkbox"/> Operator</p>	<p>30. APPROXIMATE LENGTH OF STEEPEST SLOPE ON ROAD:</p> <p><input checked="" type="checkbox"/> 0 to 100 ft. <input type="checkbox"/> 101 to 200 ft.</p> <p><input type="checkbox"/> 201 to 400 ft. <input type="checkbox"/> greater than 400 ft.</p>
<p>28. GRADING AND EROSION CONTROL PRACTICE ON ROAD:</p> <p><input type="checkbox"/> Diversions <input type="checkbox"/> Filter strips</p> <p><input type="checkbox"/> Drains <input type="checkbox"/> Riprap</p> <p><input type="checkbox"/> Open top culverts <input type="checkbox"/> Water breaks</p> <p><input checked="" type="checkbox"/> Outsloping of road</p> <p><input type="checkbox"/> Pipe culverts</p> <p><input type="checkbox"/> Proposed alternative</p>	<p>31. HAS LANDOWNER RECEIVED A COPY OF THIS RESTORATION PLAN?</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>

The undersigned hereby agrees to implement all restoration operations identified on this form, and 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.

Signature of Owner/Authorized Agent 

Name (Typed or Printed) NICHOLAS PAPARODIS Date 6-8-2010

RESTORATION PLAN MUST BE SUBMITTED TO THE DIVISION IN DUPLICATE.

**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 16" conductor, drilled to 1010' set 1010' of 8 5/8 casing with 300 sacks of superlite cement
drilled 7 7/8" hole from 1010' to 9184' set 8215' of 5 1/2" casing, set casing annulus packer
(cap) at 8215' cemented 5 1/2" 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

C. Description of the proposed method for completion and operation of the injection well:

Acidize and injection test thru 5 1/2" casing instal 3 1/2" lined tubing with Baker packer set

D. Description of the proposed unloading, surface storage, and spill containment facilities:

Concrete unloading pad
8 400 BBL Tanks
60' X 92' concrete containment dike with 2' 6" high walls

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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

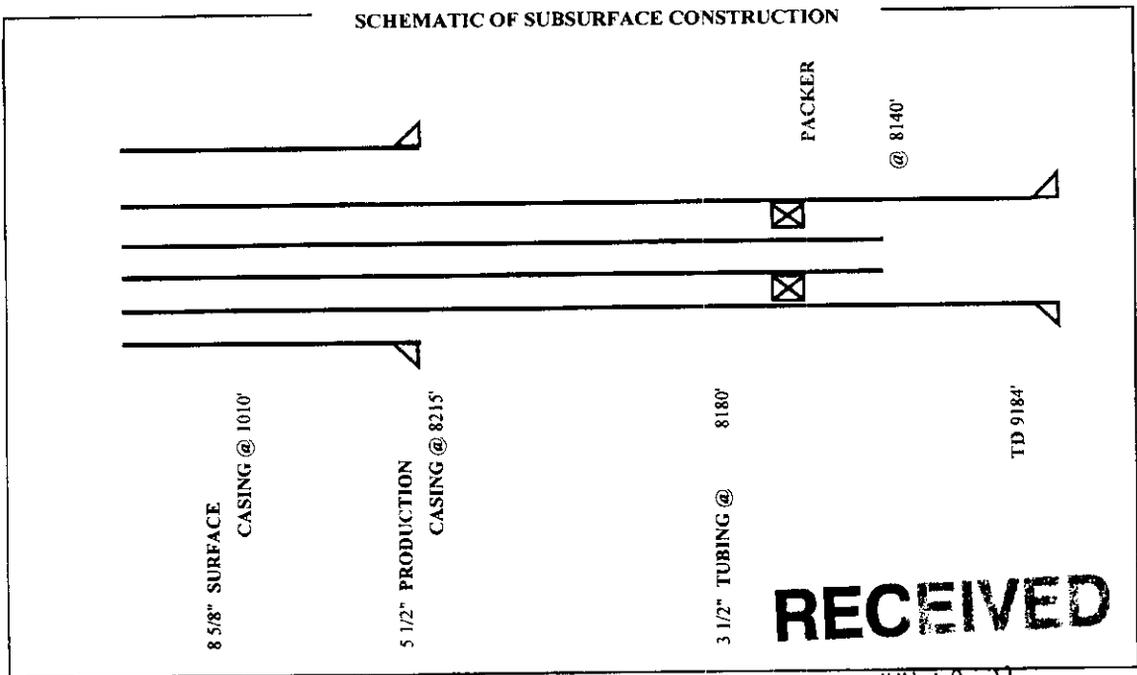
Explain any corrective action proposed for wells penetrating the proposed injection formation or zone within the area of review:

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.

JUN 10 2010
 DIVISION OF MINERAL RESOURCES MANAGEMENT

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. Paporadis

Signature of Owner/Authorized Agent: [Signature] Title: V.P. LAND OPERATIONS

Permanent Address of Home Office: 2761 Salt Springs Rd., Youngstown, Ohio 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 8th day of June, 2010.

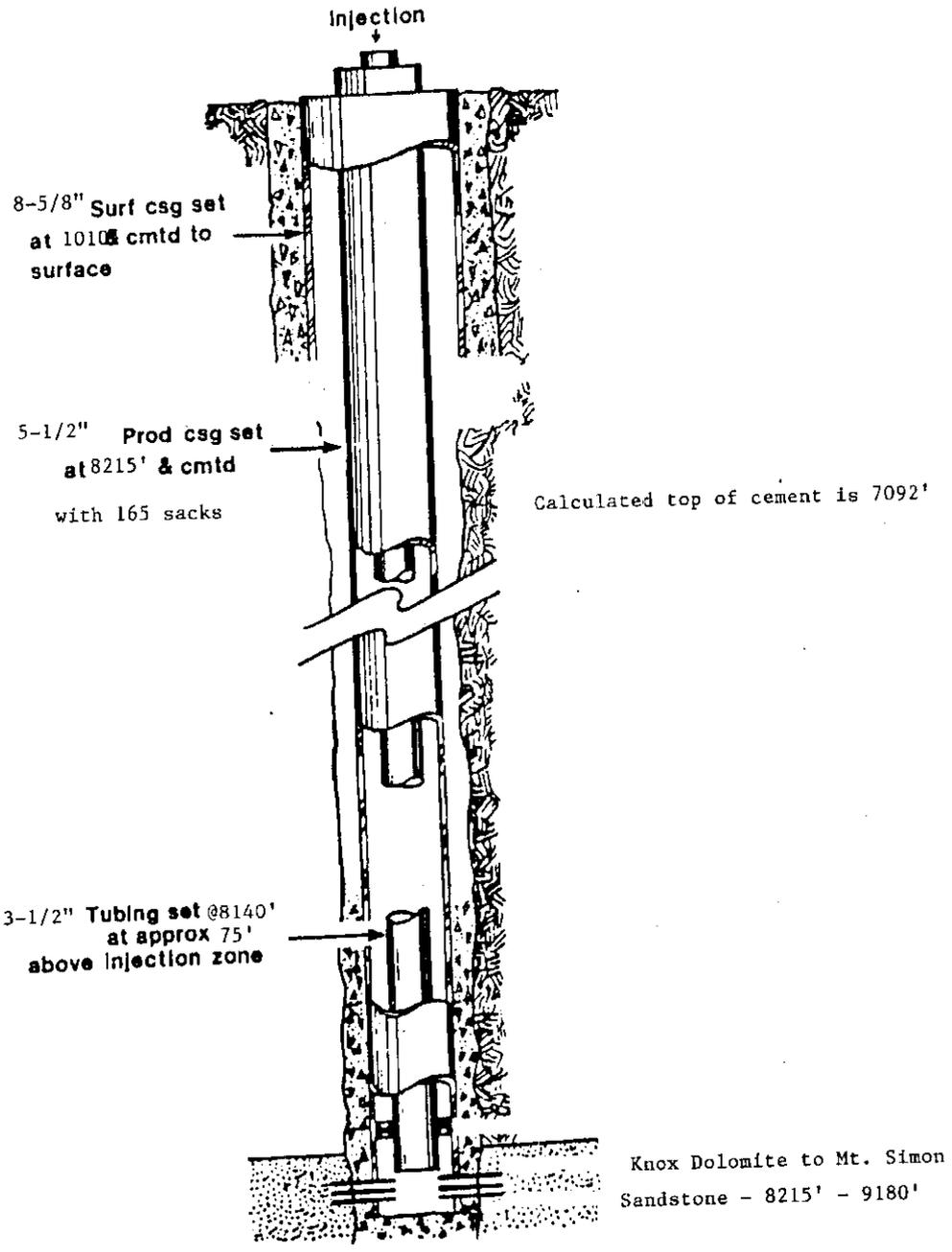
Kimberly A. Little
 Notary Public

(SEAL)



Subsurface Construction For Injection Well

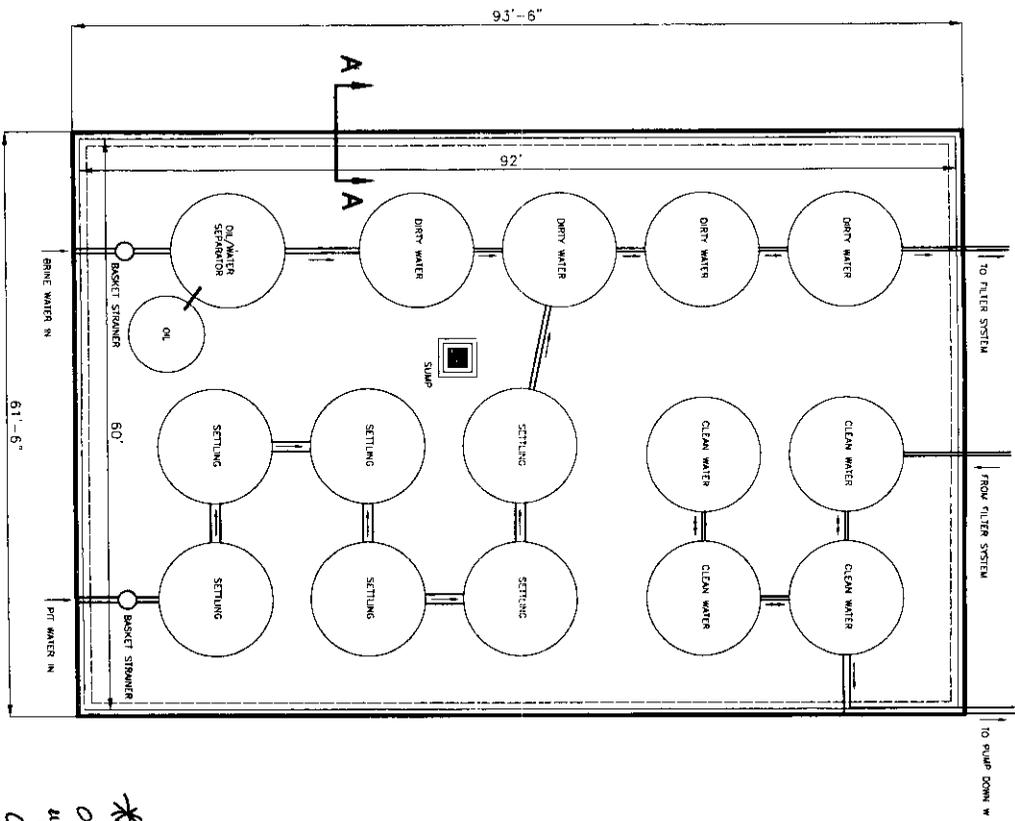
Maximum Injection Pressure: 1890 psi



Total Depth: 9184 feet



PLAN VIEW



FLOOR:
 145 C.Y. CONC.
 11,000 FT² ~#4 BARS

WALLS:
 15 C.Y. CONC.
 2,000 FT² ~#4 BARS

CONTAINMENT REQUIRED = 1600 BLS x 1.5 = 2400 BLS
 CONTAINMENT PROVIDED = 2458 BLS

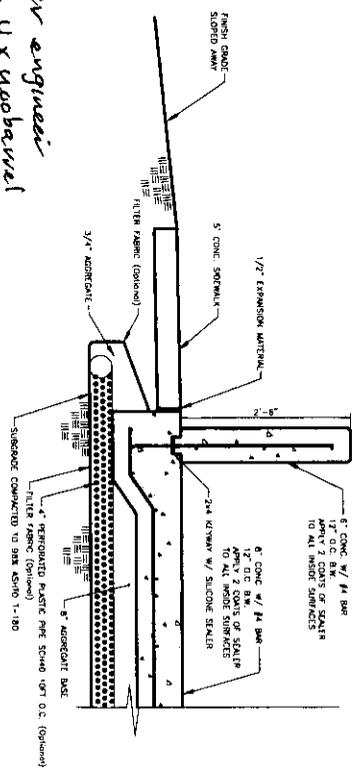
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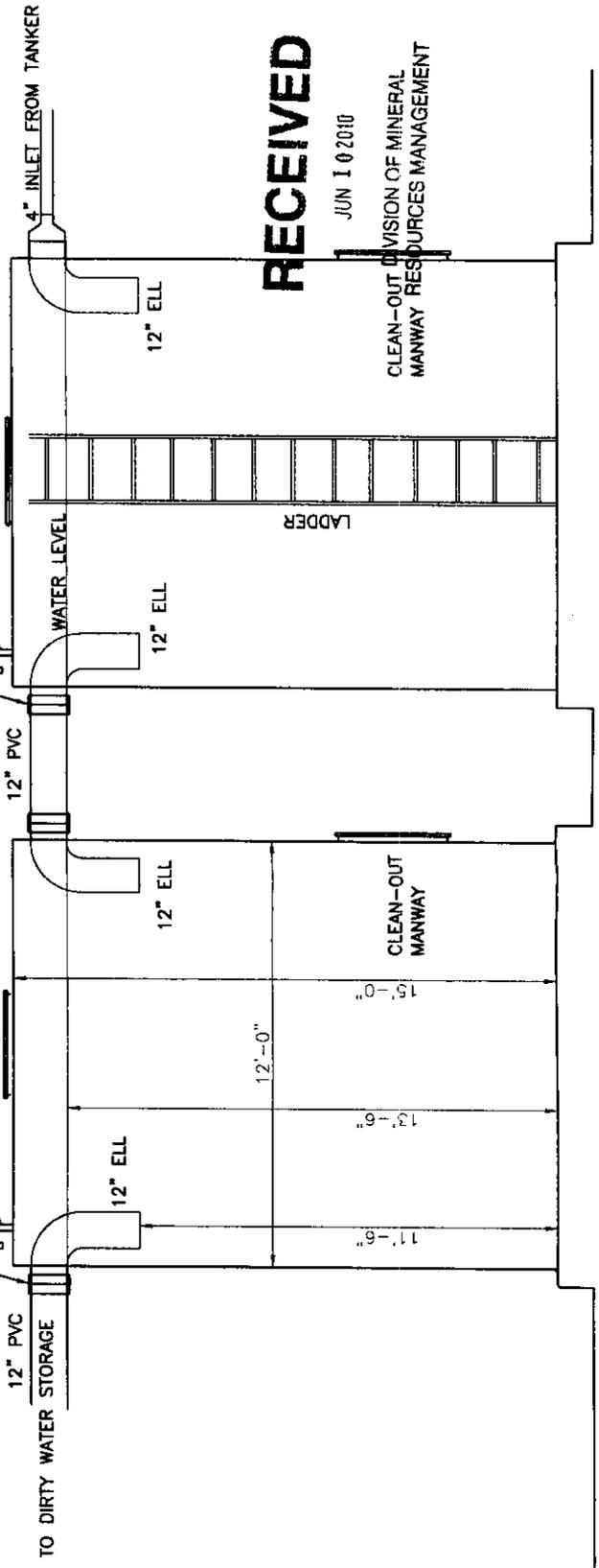
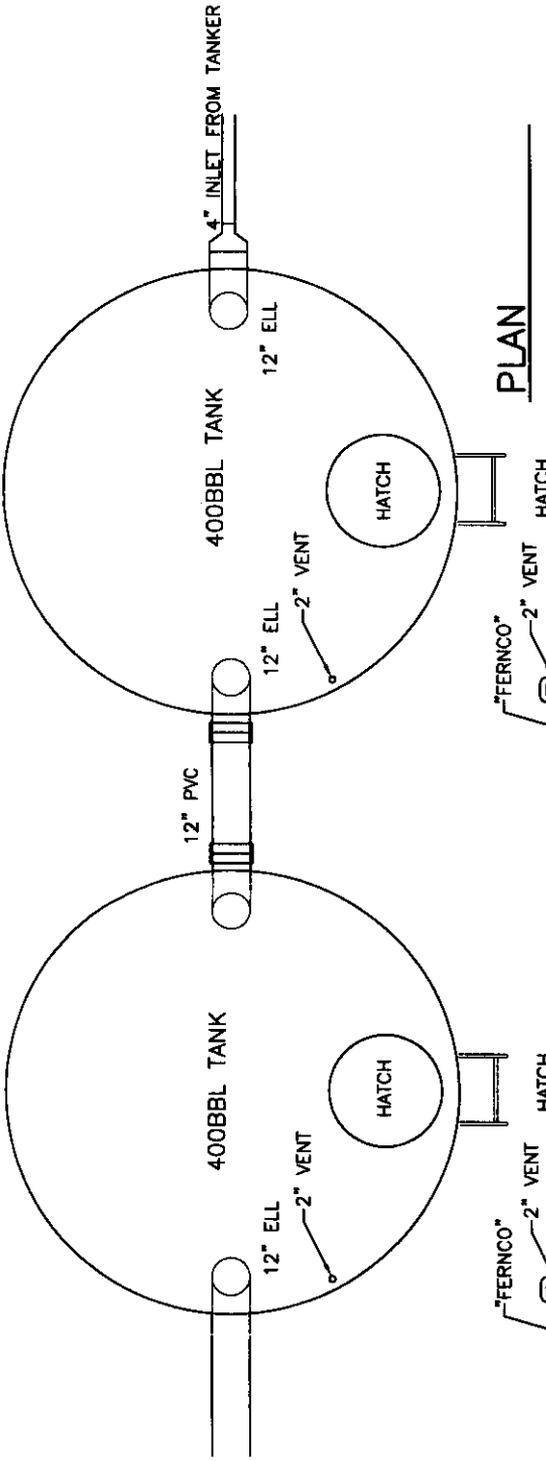
JUN 10 2010

DIVISION OF MINERAL
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** Per engineer
 only 4 X waabarral
 identify water tanks
 connected at the
 bottom - maximum
 1600 barrels
 06/06/2010*

SECTION A-A





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CLEAN-OUT DIVISION OF MINERAL
MANWAY RESOURCES MANAGEMENT



D & L ENERGY, INC.

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

August 4, 2009

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AUG 10 2009

Mr. Tom Tomastik
Geologist
Underground Injection Control
Ohio Division of Mineral Resource Management
2045 Morse Road
Building H-3
Columbus, OH 43229-6693

DIVISION OF MINERAL
RESOURCES MANAGEMENT

Re: Request for Preliminary Review, Brine Injection Well, Trumbull County, Ohio

Dear Mr. Tomastik:

Please accept this letter as D&L Energy's request for a Preliminary Review for a proposed brine injection well to be located in Trumbull County, Ohio. According to our surveyor, there are no section and lots for the particular site being proposed, but the coordinates have been placed on the attached maps. The particulars are as follows:

County: Mahoning
Township: Youngstown
Section: (NA-Reference attached maps)
Lot: (NA-Reference attached maps)
Formation(s): Rose Run-Mount Simon
Anticipated Depth: 7700-9700'

If you have any questions, please call me at 330-792-9524.

Sincerely,

A handwritten signature in black ink, appearing to read 'Larry Smyers', written over a white background.

Larry Smyers
D&L Energy



Ohio Department of Natural Resources

TED STRICKLAND, GOVERNOR

SEAN D. LOGAN, DIRECTOR

August 18, 2009

Mr. Larry Smyers
D & L Energy, Inc.
2761 Salt Springs Road
Youngstown, Ohio 44509

**RE: Proposed SWIW preliminary review, New Well, Youngstown Township,
Mahoning County**

Dear Mr. Smyers:

Pursuant to your request, the Division of Mineral Resources Management has conducted preliminary area of review to determine the feasibility of injecting fluid into the above-captioned well at volumes greater than 200 barrels per day per year (within a 1/2 mile radius) into the **Rose Run and Mt. Simon Sandstones**. An evaluation of the area of review indicates that injection into the **Rose Run and Mt. Simon Sandstones** is feasible at volumes greater than 200 barrels per day. The cost of the conversion permit is \$100.00. Enclosed is the application forms to convert this well to injection.

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

Sincerely,

A handwritten signature in black ink that reads "Tom Tomastik".

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



OPERATOR UCL Energy Corp

COUNTY Madison

TOWNSHIP Youngstown

* No other wells in AOR
penetrating the proposed casing / cement injection zones.

P & A PH Permit Number Casing Program Cement Injection Wall Log and/or Method of Plug

Rose Run New well mt mt Simon

CL 507 8 5/8" - 580' - cemented to surface
4 1/2" - 5070' - cemented w/ 200 sacks

CL/DR 2932 8 5/8" - 512' - cemented to surface
4 1/2" - 5114' - cemented w/ 200 sacks

CL 2933 Not drilled

CL 819 Not drilled

CL/DR 2913 8 5/8" - 452' - cemented w/ 250 sacks
4 1/2" - 5150' - cemented w/ 175 SKI.

CL/DR 2912 8 5/8" - 470' - cemented to surface
4 1/2" - 5094' - cemented w/ 175 SKI.

CL/DR 2935 8 5/8" - 521' - cemented to surface
4 1/2" - 5110' - cemented w/ 200 SKI.

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



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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DIVISION OF MINERAL
RESOURCES MANAGEMENT

June 8, 2010

Mr. Tom Tomastik
Geologist
Division of Mineral Resources management
2045 Morse Rd, H-3
Columbus, OH 43229-6693

RE: Injectivity Test, North Star #1, Youngstown Township, Mahoning County, OH

Dear Mr. Tomastick:

Please accept this correspondence as fulfillment of item 4 of your authorization letter, dated May, 17, 2010, on the results of the injectivity test D&L Energy ran on the above captioned well June 4, 2010.

Attached are the run tickets, pressure recordings and durations, provided by Appalachian Well Services who were contracted to perform the injectivity test.

The injection test commenced with 1 bpm and was ramped up to 5 bpm spanning a period of 4 hours with the well being shut-in for an additional hour. Pressures v. Rate are included on the tickets with a maximum pressure of 1800# at 5 bpm reached.

If you have any questions, please do not hesitate to call.

Sincerely,

A handwritten signature in black ink, appearing to read 'Larry Smyers', is written over a white background.

Larry Smyers

D&L Energy Inc.



Injection Test
NORTH STAR #1
CUSTOMER DAL Energy

INVOICE NO. 13404

STAGE NO. _____

LEASE NAME North Star #1

JOB LOG

DATE 6.4.10

NO OF SACKS	COMPOSITION OF CEMENT	YIELD	GAL WTR/SK	DENSITY	BBL OF MIX WTR	CU FT OF SLURRY	BBL OF SLURRY
1							
2							
3							
TOTAL							

CIRCULATE CEMENT TO SURFACE
 Yes No Not Applicable

JOB TYPE
 Surface Longstring Acid
 Other Misc

	NEW USED	SIZE	FROM	TO	WEIGHT	MAXIMUM PSI ALLOWANCE
CASING						
TUBING						
OPEN HOLE						
PERFORATIONS						
DISPLACEMENT CAPACITY			BBL.	DISPLACEMENT DEPTH		FT

TIME	RATE (BPM)	VOLUME (BBL)	PRESSURE (PSI)		DESCRIPTION OF STAGE OR EVENT
			TUBING	CASING	
10:27		10			Load Hole
10:37-10:57	1.0	27		1000	H ₂ O
10:57-11:27	1.5	43		1250-1300	H ₂ O
11:27-12:07	2.0	63		1350-1400	H ₂ O
12:07-12:37	2.5	80		1400-1450	H ₂ O
12:37-1:07	3.0	96		1500-1625	H ₂ O
1:07-1:37	4.0	124		1675-1775	H ₂ O
1:37-2:07	4.5	140		1800	H ₂ O
2:07-4:08	5.0	602		1800	H ₂ O
4:08				1575	Shut down / watch Pressure 1 hr
4:23				1475	Check Pressure
4:38				1400	Check Pressure
4:53				1325	Check Pressure
5:08				1250	Check Pressure / Shut in well / Job Complete

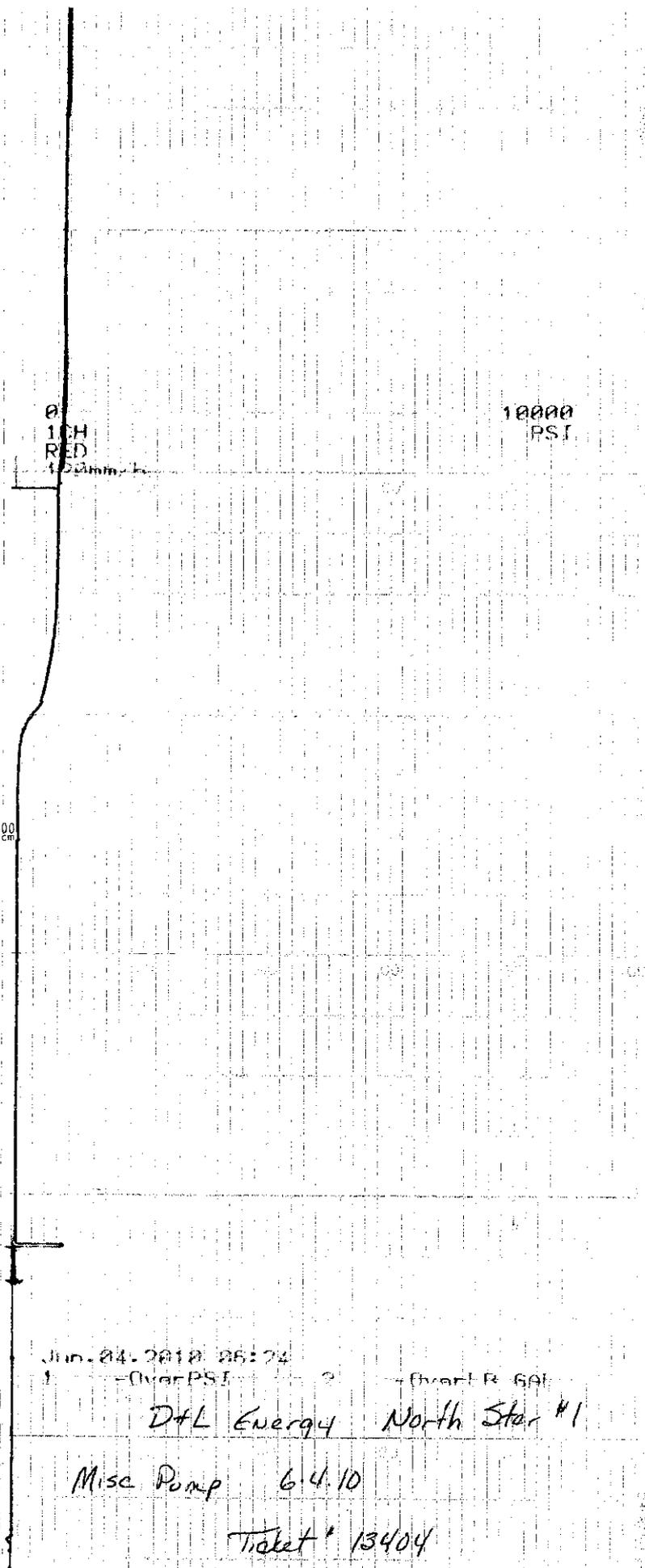
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DEC 02 2010

DIVISION OF MINERAL RESOURCES MANAGEMENT

REMARKS _____

SERVICE ENGINEER Terry Crave
 CUSTOMER REPRESENTATIVE Garry Saylor



0
1 CH
RED
150mm

18000
PSI

1600
CM

Jun. 24. 2010 05:24

1 - Over PSI 2 - Over R. GAI

D&L Energy North Star #1

Misc Pump 6.4.10

Ticket # 13404

1560
cm

Jun. 04. 2010

12:00

1 1441 PSI

2 7.00 LB GAL

7.00

200

GREEN

23.00

LB GAL

1580
cm

Jun. 04. 2010

11:00

1 1253 PSI

2 7.00 LB GAL

8

100

RED

120mm/h

15000

PSI

1540
cm

04.2010
14:00
1 1296 PSI
2 7.00 LB GAL
7.
20
GR N

29.00
1 R GAL

04.2010
13:00
1 1611 PSI
2 7.00 LB GAL
A
10K
RET
178 nm/h

15000
PSI

1560
cm

