APPLICATION CHECKLIST

Mahoning Co., Coitsville Twp.
SWIW #13, Permit #3171

	Date	Initials
Enter on Agenda	9/26/11	
Completeness Review	10/13/11	
Date – Time Stamp	9/26/11	
Area of Review	10/13/11	
Site Evaluation	10/24/11	
Permitting Section	9/26/11	
Memo to Inspector	10/17/11	
Public Notice	10/17/11	
Letter 10/17/11		
Date Run 10/22/11		
15 Days 11/6/11		
Review Public Notice	10/28/11	
Affidavit of Notification	10/19/11	
Objections Received Yes _____ No X	11/9/11	
Public Hearing Date	NA	
Chief's Order, if Required	NA	
Schematic	10/25/11	
Plot on Map	10/13/11	
Review by Geologist	11/9/11	
Permit Conditions (Same date as permit)	11/9/11	
Enter on Computer (Same or later date than Chief's Order)	11/9/11	
Enter on Master List	10/13/2011	
EPA Form	10/13/2011	
Mail Permit	11/10/11	
Update Agenda	11/10/11	
File	11/10/11	

RECORD OF CONVERSATION

* Missing SWIW affidavit – send blanks – 10/13/2011
* Received SWIW affidavit – 10/19/2011

DIVISION OF MINERAL RESOURCES MANAGEMENT

2045 Morse Road, Bldg. H-3 Cols., OH 43229-6693
(614) 265-6633 (phone) (614) 265-7998 (fax)

Fax

To: Nick P.

From: Tom Tomastik

Fax: (330) 270-1202

Pages: 5

Phone:

Date: 11/10/2011

Re: DLL Energy

CC:

☐ Urgent ☐ For Review ☐ Please Comment ☐ Please Reply ☒ As Requested

COMMENTS: Northstar Collins #6 permit and conditions. Hard copy in the mail.

INTER-OFFICE MEMO

TO: Carl Roberts, Mineral Resources Inspector
FROM: Tom Tomastik, Geologist
SUBJECT: Application and Site Evaluation for a SWIW permit
DATE: October 17, 2011

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

OPERATOR: D & L Energy, Inc.
WELL NAME & NUMBER: Northstar Collins # 6
PERMIT NUMBER: New well, SWIW #13
LOCATION: 238' SL & 2219' EL of Section 12, Coitsville Twp., Mahoning County
PROPOSED INJECTION ZONE: Knox – Mt. Simon Sandstone
DATE RECEIVED: September 26, 2011

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

10/24/11

I performed an inspection on this pre-site of North Star Collins #6, SWIW #13. The well was GPS'd, 41.09129, 80.54802. There are 3 possible water wells to the east 440', southeast 440' and to the west 600'. There is a 5 acre pond to the west some 500' from the wellhead site. The ground falls to the west from the east. A Silt fence will be placed on the west side of the drilling location. A fence will be installed around the entire location. There is a Purple Cat mentally handicapped business on the west side, 600 feet. The access from rte 422, McCartney road to the well site is a drop of 16 feet. There is a small run off at the bottom of the drop off from Rte 422 east to west. An ID sign will be posted on rte 422. BOP required. Hospital mufflers are required.
The 13 3/8" conductor will be cemented in. I think the D & L Energy should test all the water wells within the 600 feet area.

Tomastik, Tom

From: Roberts, Carl
Sent: Monday, October 24, 2011 12:27 PM
To: Tomastik, Tom
Subject: North Star Collins #6

Tom,

I forgot. This well needs to go on fluid from the Big Lime to TD unless a waiver is sent into you.

Carl

Ohio Department of Natural Resources

JOHN R. KASICH, GOVERNOR | SCOTT A. ZODY, INTERIM DIRECTOR

Division of Oil and Gas Resources Management
J. Michael Biddison, Acting Chief
2045 Morse Road, Bldg. H-2
Columbus, OH 43229-6693
Phone: (614) 265-6633 Fax: (614) 265-7998

October 17, 2011

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

RE: Public Notification for SWIW applications for Mahoning County, Coitsville Twp., New well, Northstar Collins #6 injection well

Dear Mr. Paparodis:

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

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

Sincerely,

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

Cc: File

DAILY ROUTE SLIP

Coitsville

APPLICATION NO. aAMY0000421 TYPE: Salt Water Injection Well

CONAME D & L ENERGY INC API

WELL NAME /NO. NORTHSTAR COLLINS 6

COUNTY 99 MAHONING

	INITIALS	DATE
DATE APPLICATION REC'D	AM	9/26/2011
PERMIT FEE AND CHECK NO.	$1,000.00	21461
RUSH AMOUNT RUSH CHECK NO.	$0.00	0
APPLICATION ENTERED	AM	9/26/2011
APPLICATIONS AND PLATS SENT FOR MINE APPROVAL	AM	9/26/2011
COAL APPROVAL RECEIVED		NA
OIL/GAS AFFIDAVIT REC'D		NA
URBANIZED AREA NOTIFICATION SENT		NA
URBANIZED AREA NOTIFICATION SENT TO INSPECTOR/REC'D BACK		NA
URBAN MAP REVIEW		NA
SAMPLES: YES X /SPECIAL AREAS		10/13/2011
GEOLOGIST APPROVAL	TD	11/10/11
DATA ENTRY /ISSUED		11/10/11
PERMIT: TAKEN ____ MAILED X		11/10/11
FAX TO:		
FINAL MAP CHECK	SR	11/22/11

COMMENTS:

Proof Sheet

APPL NUMBER	aAMY0000421	URBANIZED AREA ?	☐
OWNER NUMBER	2651	NAME	
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 COLLINS (SWIW #-13)	DISPOSAL PLAN 5	
WELL NUMBER	6	MP Check #	0
PREV/PROPOSED TD	9300		
DRILL UNIT ACRES	10.38		
TYPE OF TOOL	RTAF	PROPOSED FORMATIONS	
WELL CLASS	SWIW	KNOX - PRECAMBRIAN	
FIRE PHONE	( ) - 911		
MEDICAL PHONE	( ) - 911		
COUNTY CODE	99		
COUNTY NAME	MAHONING		
COAL (Y=-1/N=0)	-1		
CIVIL TOWNSHIP	COITSVILLE	TARG CIVIL TWP	
SURF QUAD	CAMPBELL	TARG QUAD	
Nad 27 SURF ORIG X	2538036	Nad 27 TARG ORIG X	
Nad 27 SURF ORIG Y	524969	Nad 27 TARG ORIG Y	
GROUND ELEVATION	1133	TARG ELEV	0
SURF SEC	12	TARG SECTION	
SURF LOT		TARG LOT	
SURF QTR TWP		TARG QTR TWP	
SURF ALLOT		TARG ALLOT	
SURF TRACT		TARG TRACT	
SURF FRACTION		TARG FRACTION	

Proof Sheet

SURFACE FOOTAGE

238' SL + 2219' EL OF Section 12

TARGET FOOTAGE

CASING PROGRAM

09	13 3/8	100
09	9 5/8	1010
32	7	8215
40	4 1/2	85

SPECIAL CONDITIONS/COMMENTS

Class II Drilling and Construction Conditions

COMPLETION DT —

MINES APPROVAL —

AFFIDAVIT APPROV —

FINAL ENTRY DATE 11/10/2011

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

#21461
$1,000.00

aAMY 0000421

SEE INSTRUCTIONS ON PAGE 2 (BACK)

1. I, We (applicant) D&L ENERGY, INC. 2. Owner #: 2651
(address) 2761 SALT SPRINGS RD., YOUNGSTOWN, OH 44509 Phone #: 330-792-9524
hereby apply this date SEPT. 19, 20 11 for a permit to:

- [ ] Reissue (check appropriate blank)
- [x] Drill New Well
- [ ] Drill Directionally
- [ ] Drill Horizontally
- [ ] Revised Location
- [ ] Plug Back
- [ ] Plug and Abandon
- [ ] Orphan Well Program
- [ ] Convert
- [ ] Deepen
- [ ] Reopen
- [ ] Temporary Inactive

3. TYPE OF WELL:
- [ ] Oil & Gas
- [ ] Stratigraphic Test
- [ ] Solution Mining*
- [ ] Input/Injection
- [ ] Annular Disposal
- [ ] Gas Storage
- [ ] Enhanced Recovery*
- [ ] Water Supply
- [x] Saltwater Injection
- [ ] Other *(explain)*:
- [ ] Observation
- [ ] Production/Extraction

*(* 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:
- [ ] Cable
- [ ] Cable / Air Rotary
- [ ] Cable / Fluid Rotary
- [ ] Cable / Air / Fluid Rotary
- [ ] Air Rotary
- [x] Air / Fluid Rotary
- [ ] Fluid Rotary
- [ ] Service Rig

5. COUNTY: MAHONING
6. CIVIL TOWNSHIP: COITSVILLE TWP.
7. SECTION: 8. LOT: 12
9. FRACTION: 10. QTR TWP:
11. TRACT / ALLOT:
12. WELL #: 6
13. LEASE NAME: NORTHSTAR COLLINS
14. PROPOSED TOTAL DEPTH: ~~9300~~ 9184

21. PROPOSED CASING PROGRAM:
13 3/8"-100' 7"-8215'
9 5/8"-1010'
~~11-3/4" FOR 100 FT, 9-3/4" FOR 400 FT CEMENTED TO SURFACE, 7" CEMENTED TO SURFACE~~

15. PROPOSED GEOLOGICAL FORMATION:
KNOX-PRECAMBRIAN

16. DRILLING UNIT IN ACRES (must be same as acres indicated on plat): 10.38

22. FIRE AND MEDICAL DEPARTMENT TELEPHONE NUMBERS: (closest to well site)
Fire: 911
Medical: 911

17. **IF PERMITTED PREVIOUSLY:**
API #:
OWNER:
WELL #:
LEASE NAME:
TOTAL DEPTH:
GEOLOGICAL FORMATION:

23. MEANS OF INGRESS & EGRESS:
Township Road:
County Road:
Municipal Road:
State Highway: US 422 McCARTNEY ROAD

18. IF SURFACE RIGHTS ARE OWNED BY THE OHIO DEPARTMENT OF NATURAL RESOURCES
Division Name: N/A
Division Phone:

24. IS THE WELL LOCATION OR PRODUCTION FACILITIES WITHIN AN URBANIZED AREA AS DEFINED BY 1509.01(Y) ?
- [ ] Yes
- [x] No

19. LANDOWNER ROYALTY INTEREST:
Is There An Attached List? [ ] Yes [x] No
Name: GEORGE COLLINS, JR.
Address: 5100 McCARTNEY RD., LOWELLVILLE, OH 44436
Name:
Address:
Name:
Address:

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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 [signature]

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 subscibed before me this the 20 day of September, 20 11

Kimberly A. Little
(Notary Public)

KIMBERLY A. LITTLE
MY COMMISSION EXPIRES
JUNE 1, 2014
(Date Commission Expires)

DNR 5619 (Rev. 06/2010)

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 les 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, dolmite,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 9184' and set 8215' of 7" casing, set casing annulus packer (cap) at 8215', cement 7" casing from 8215' with 165 sacks SFL cement.

4 1/2" set on packer at 8140' or 85' above injection zone

B. Proposed method for testing the casing:

Mechanical Integrity test, then daily monitoring with a chart recorder.

Pressure test casing/tubing annulus to at least 1890 psi for 15 minutes with the injection a five percent decline.

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

Acidize and injection test thru 7" casing. Install 4" lined tubing with Baker packer set.

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.

* Full scale drawings submitted to the Division

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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: 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;

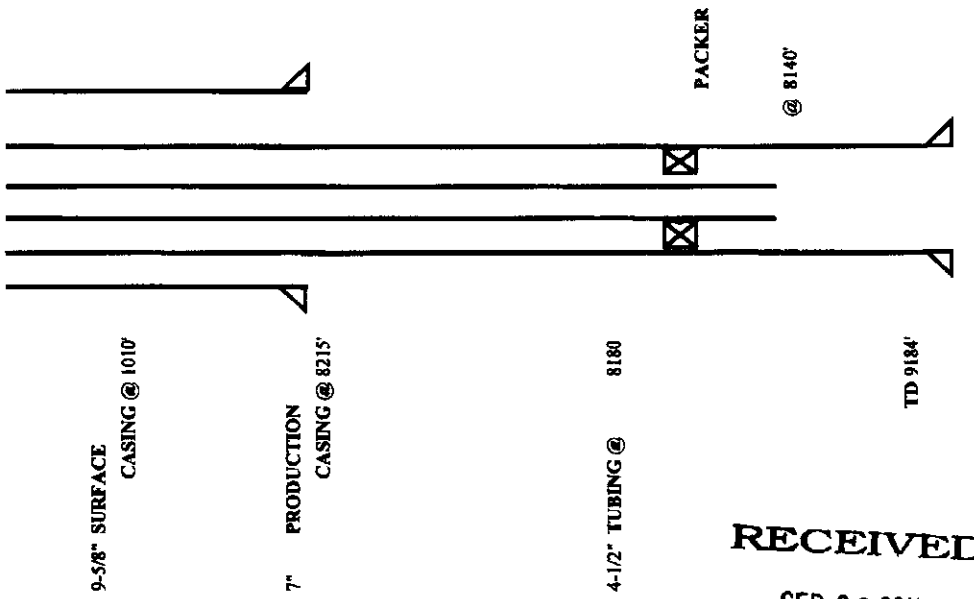
C. The geographic location of all wells, penetrating the formation proposed for injection regardless of status, within the area of review;

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.

SCHEMATIC OF SUBSURFACE CONSTRUCTION



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

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

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

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

Owner/Authorized Agent (Type or Print): Nicholas C. Paparodis

Signature of Owner/Authorized Agent: [signature] Title: VP Land Operations

Permanent Address of Home Office: 2761 Salt Springs Road, Youngstown, OH 44509

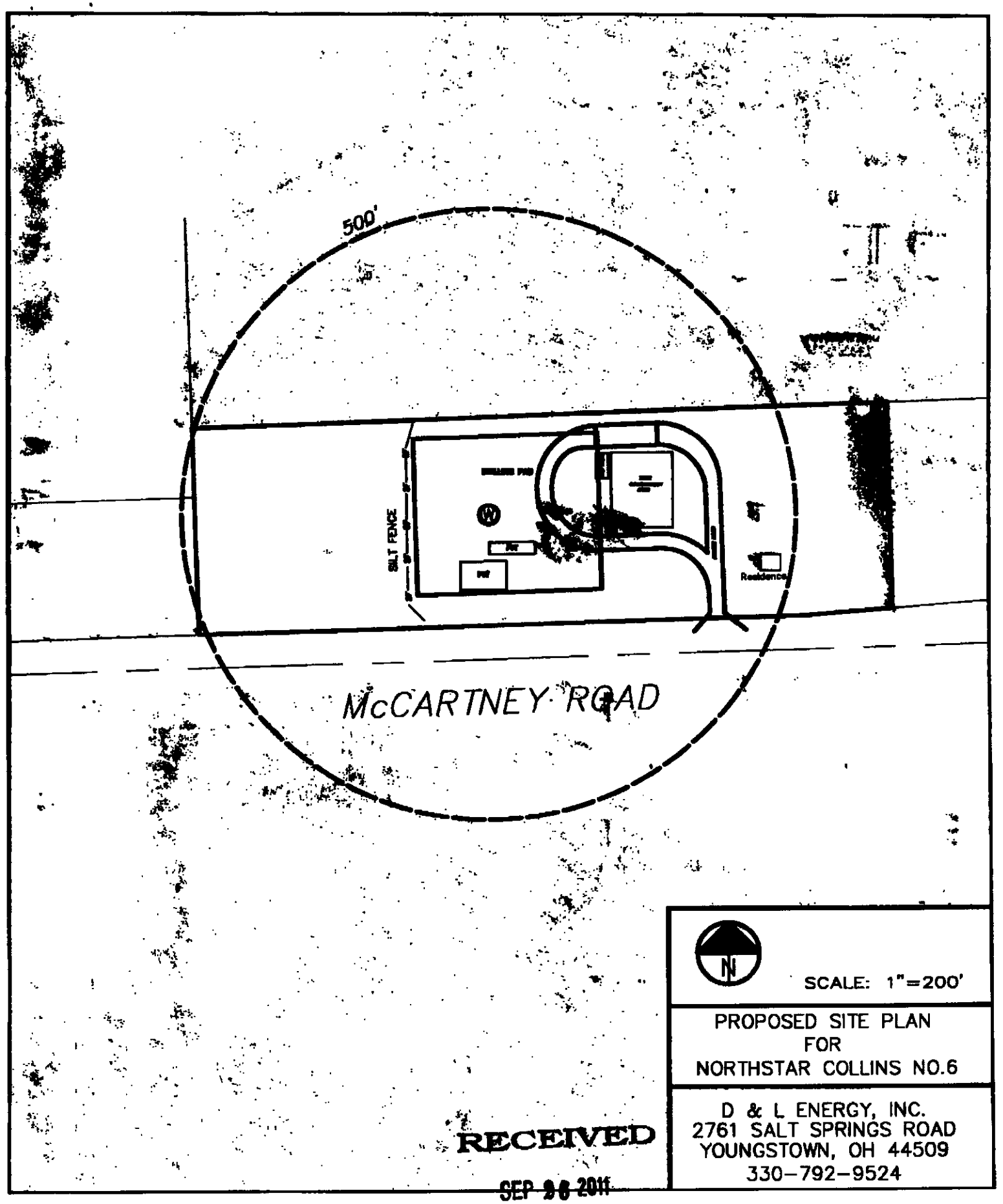
If signed by Authorized Agent, a certified copy of appointment of agent must be on file with the Division.

SWORN to and subscribed before me this 20 day of September, 20 11.

Kimberly A. Little
Notary Public

(SEAL) KIMBERLY A. LITTLE
MY COMMISSION EXPIRES
JUNE 1, 2014

6/1/2014
Date Commission Expires



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Latitude: 41° 05' 28.20"
NORTH: .525001

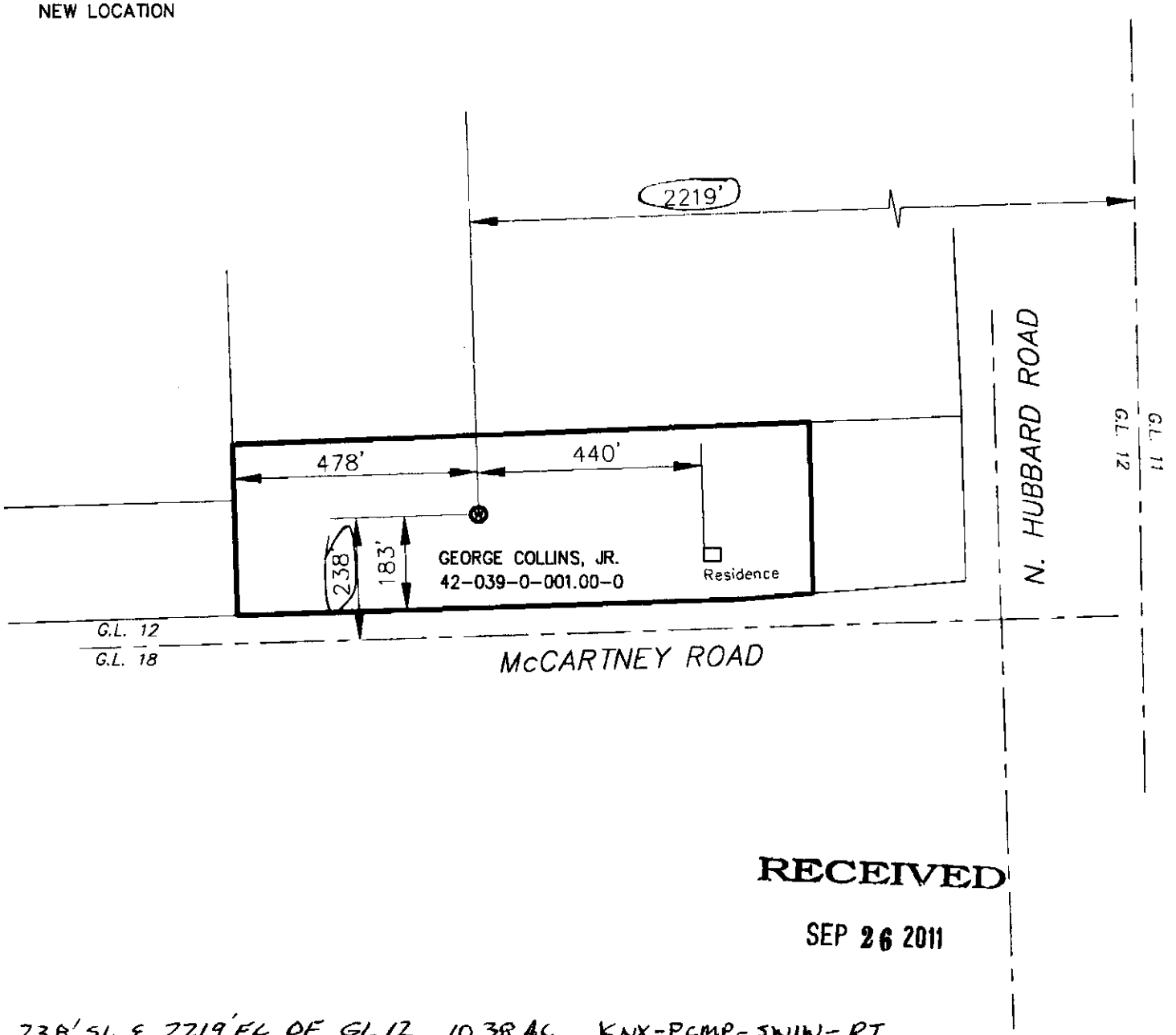
Longitude: 80° 32' 51.74"
EAST: 2506578

NAD 27
X: 2538030
Y 524969

WELL LOCATION PLAT

LEGEND:

PROPOSED BRINE WATER INJECTION WELL
NEW LOCATION



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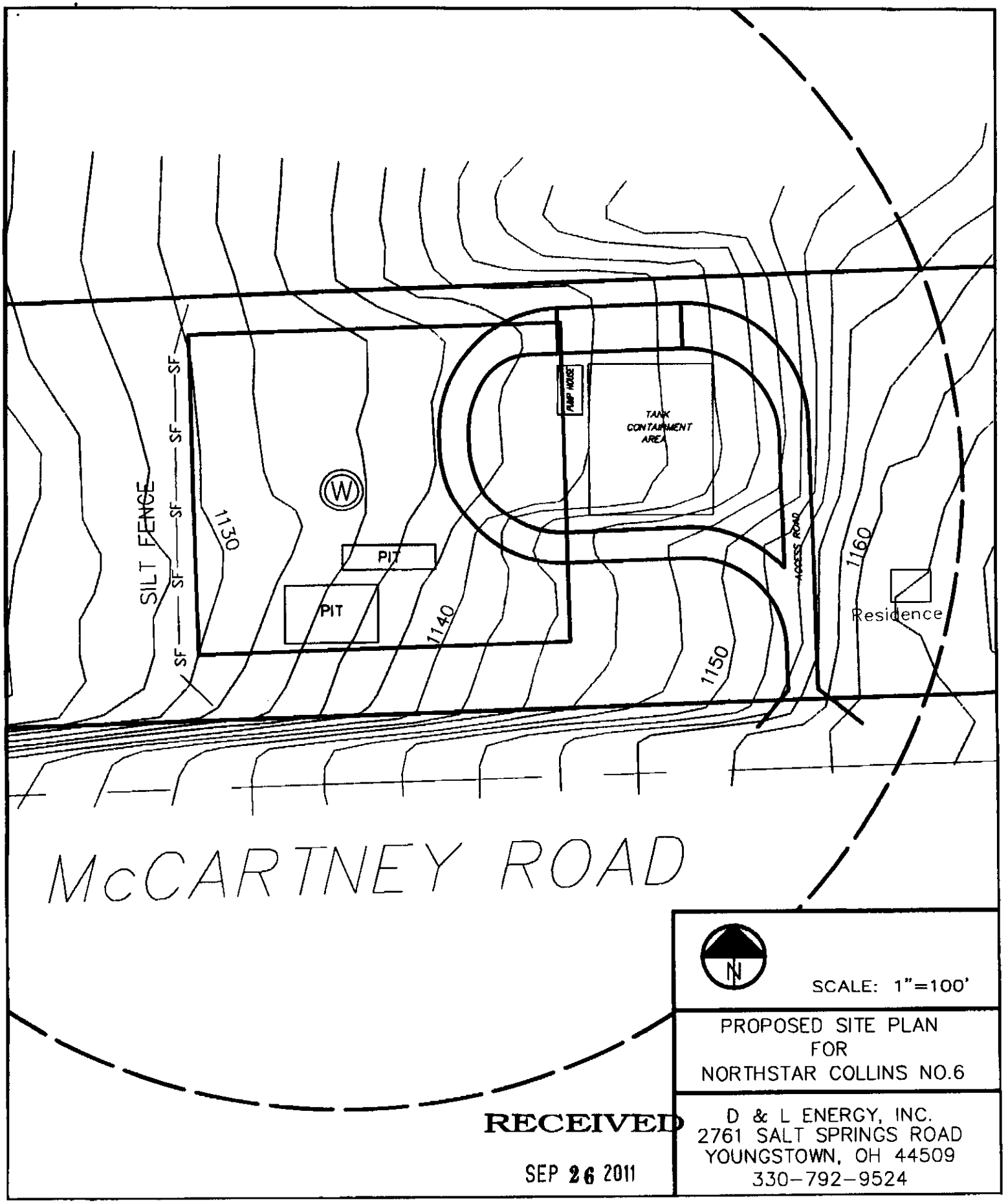
238' SL & 2219' EL OF GL 12 10.38 AC KNX-PCMP-SWIW-RT

Surveyor or Engineer: GARY TANERI	Phone #: 330-207-5502	Date: SEPT. 15, 2011	Scale: 1"=300'	Acreage: 10.38
Lat. & Long Metadata Method: GPS	Accuracy: 3 ft.	Datum: NAD83	Elevation Metadata Method: USGS	Accuracy: 10 ft.	Datum: NGVD29	Survey Date: 9/01/11
Applicant / Well Operator Name: D & L ENERGY, INC.	Well(Farm) Name: NORTHSTAR COLLINS	Well #: 6
Address: 2761 SALT SPRINGS ROAD YOUNGSTOWN, OH 44509	County: MAHONING	Municipality: COITSVILLE TOWNSHIP
Surface Landowner: GEORGE COLLINS, JR.	USGS 7 1/2 Quadrangle Map Name: CAMPBELL	
Surface Lessor: D & L ENERGY, INC.	Angle & Course of Deviation (Drilling): VERTICAL	Surface Elevation: 1133 ft.	Anticipated Total Depth: 9300 ft.

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

9.19.11
Gary Richard Taneri — Date
Registered Professional Surveyor No. 7672

STATE OF OHIO — GARY RICHARD TANERI 7672 — PROFESSIONAL SURVEYOR



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RESTORATION PLAN (Form 4)

Ohio Department of Natural Resources

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

1. DATE OF APPLICATION: SEPT. 19, 2011

2. OWNER NAME, ADDRESS, & TELEPHONE NO.:
D&L ENERGY, INC., 2761 SALT SPRINGS RD., YOUNGSTOWN, OH 44509 330-792-9524

3. API #:
4. WELL #: 6
5. LEASE NAME: NORTHSTAR COLLINS
6. PROPERTY OWNER: GEORGE COLLINS, JR.
7. COUNTY: MAHONING
8. CIVIL TOWNSHIP: COITSVILLE
9. SECTION: 10. LOT: 12

11. CURRENT LAND USE:
- ☐ Cropland
- ☐ Commercial
- ☐ Pasture
- ☑ Idle Land
- ☐ Wetlands
- ☐ Recreational
- ☐ Residential
- ☐ Industrial
- ☐ Unreclaimed strip mine
- ☐ Woodland: ☐ Broadleaf ☐ Needlelike

12. SLOPE GRADIENT & LENGTH DETERMINED FROM:
- ☐ Ground Measurement
- ☐ U.S. Geological Survey Topographical Maps
- ☑ Other: (explain) COUNTY GIS MAP

13. TYPE OF FALL VEGETAL COVER:
- ☐ Little or no vegetal cover
- ☐ Short grasses
- ☑ Tall weeds or short brush (1 to 2 ft.)
- ☐ Brush or bushes (2 to 6 ft.)
- ☐ Agricultural crops
- ☐ Trees with sparse low brush
- ☐ Trees with dense low brush

14. SOIL & RESOILING MATERIAL AT WELLSITE:
- ☑ Stockpile and protect topsoil to be used when preparing seedbed
- ☐ Use of soil additives (e.g., lime, fertilizer)
- ☐ No resoiling planned
- ☐ Proposed alternative

15. DISPOSAL PLAN FOR TREES AND TREE STUMPS:
- ☐ No trees disturbed
- ☐ Haul to landfill
- ☐ Cut into firewood
- ☐ Sell to lumber company
- ☐ Bury with landowner's approval
- ☑ Mulch small trees and branches, erosion control
- ☑ Use for wildlife habitat with landowner approval
- ☐ Proposed alternative

16. SURFACE AND SUBSURFACE DRAINAGE FACILITIES:
- ☑ No existing drainage facilities for removal of surface and/or subsurface water
- ☐ Tile drainage system underlying land to be disturbed
- ☐ Drain pipe(s) underlying land to be disturbed
- ☐ Surface drainage facilities on land to be disturbed

17. TYPE OF WELL:
☐ Oil ☐ Gas ☑ Other

18. STEEPEST SLOPE GRADIENT CROSSING SITE:
- ☐ 0 to 2%
- ☑ 2.1 to 8%
- ☐ 8.1 to 10%
- ☐ 10.1 to 24%
- ☐ greater than 24%

19. LENGTH OF STEEPEST SLOPE CROSSING SITE:
- ☐ 1 to 100 ft.
- ☐ 101 to 200 ft.
- ☑ 201 to 400 ft.
- ☐ greater than 400 ft.

20. RESTORATION OF DRILLING PITS: **
- ☑ Haul drilling fluids and fill pits
- ☐ Use steel circulating tanks
- ☐ Proposed alternative

21. BACKFILLING AND GRADING AT SITE:
- ☐ Construct diversions channeled to naturally established drainage systems
- ☐ Construct terraces across slopes
- ☐ Grade to approximate original contour
- ☐ Grade to minimize erosion & control offsite runoff
- ☑ Proposed alternative DISPOSAL FACILITY

22. VEGETATIVE COVER TO BE ESTABLISHED AT SITE:
- ☑ Seeding plan
- ☐ Sod
- ☐ Agricultural crops
- ☐ Trees and/or Bushes
- ☐ Proposed alternative

23. ADDITIONAL HOLES:
- ☑ Rat/Mouse, if used, will be plugged

24. PROPOSED OR CURRENT LENGTH OF ACCESS ROAD:
- ☐ 100 ft. or less
- ☑ 101 to 500 ft.
- ☐ 501 to 1500 ft.
- ☐ greater than 1500 ft.

25. CURRENT LAND USE OF PATH OF ACCESS ROAD:
- ☐ Cropland
- ☐ Pasture
- ☐ Commercial
- ☑ Idle land
- ☐ Wetlands
- ☐ Recreational
- ☐ Industrial
- ☐ Residential
- ☐ Unreclaimed strip mine
- ☐ Woodland: ☐ Broadleaf ☐ Needlelike

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

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

SEP 26 2011

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

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 9/20/2011

RESTORATION PLAN MUST BE SUBMITTED TO THE DIVISION IN DUPLICATE.

RECEIVED

SEP 26 2011

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. Paparodis 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, Coitsville Township, section/lot number 12 ; 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 18 day of October,

20 11.

Kimberly A. Little
Notary Public

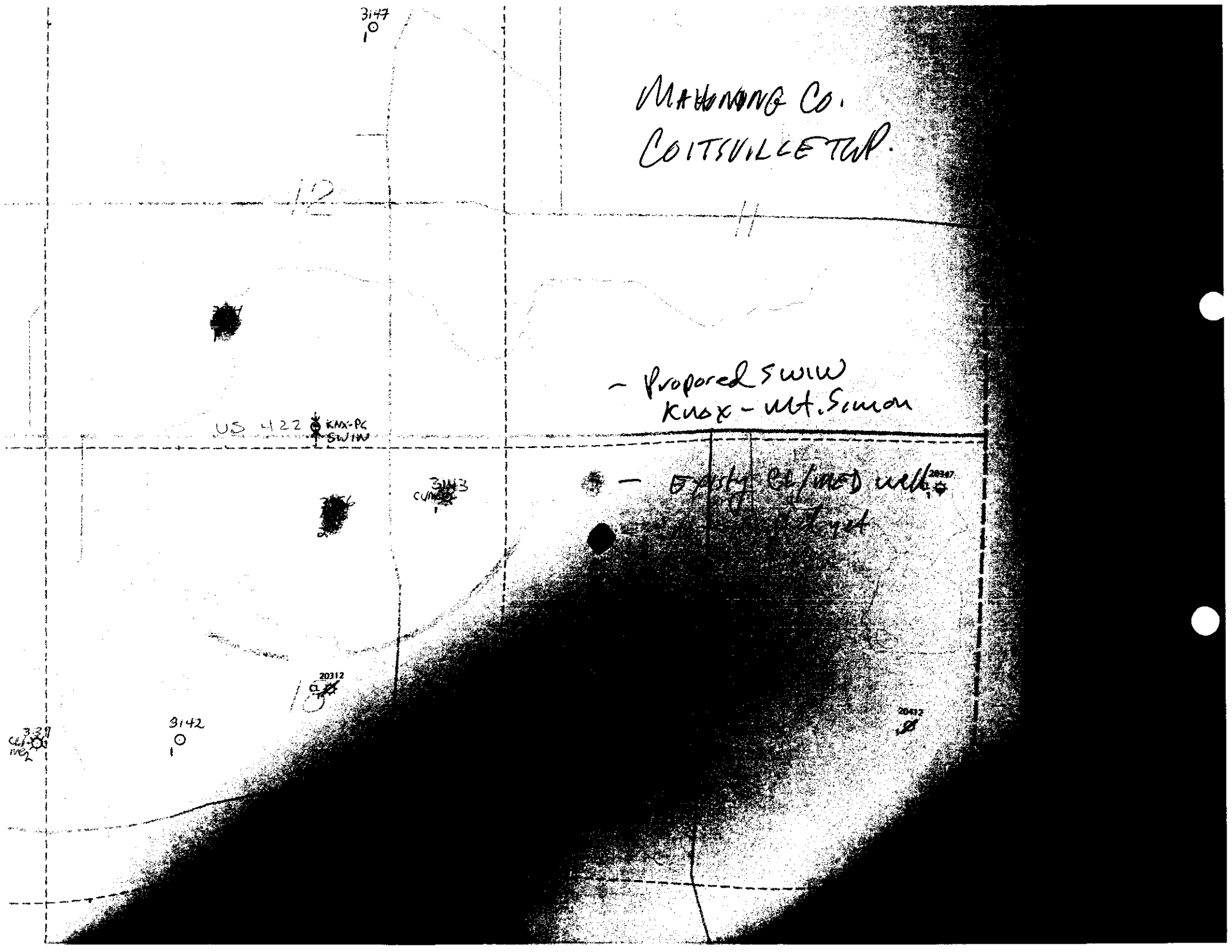
KIMBERLY A. LITTLE
MY COMMISSION EXPIRES
JUNE 1, 2014

RECEIVED

OCT 19 2011

DIVISION OF MINERAL
RESOURCES MANAGEMENT

DNR-744-1003
Revised 10/2005



MAHONING CO.
COITSVILLE TWP.
3147
12
11
- Proposed SWIW
Knox - Mt. Simon
US 422
KNX-PC
SWIW
3143
- Existg CL/MED well
20347
20312
10
3142
20412

OPERATOR D & L Energy COUNTY Mahoning

TOWNSHIP Coitsville

P & A	FM	Permit Number	Casing Program /Cement	Well Log and/or Method of Plug
☐	Knox-Mt. Simon	New well	13 3/8" - 100'	
			9 5/8" - 400' - circulated to surface	
			7" - 8215' - cement w/165 sks. Calculated fill-up	
☐	CY/MED	3143	Existing Clinton well	= 2098' TOC = 6117'
☐	CY/MED	3154	Not drilled yet	
☐	CY/MED	3156	Not drilled yet	
☐				
☐				
☐				
☐				

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

ROUTE SLIP FOR CORRECTION/CHANGE OF EXISTING PERMITS

COUNTY: MAHONING TOWNSHIP: COITSVILLE PERMIT NO. 3171

PERSON RECEIVING REQUEST: OPRITZA DATE: 12/13

OWNER: D & L ENERGY

LEASE NAME: NORTHSTAR COLLINS (SWIW # 13) WELL NO: 6

CHANGES:

_____ Change in acreage/drill unit and/or ___ As Drilled Plat for Horizontal Drill

_____ Unit Configuration only
(new plat submitted: yes ___ no___)
(fee required: yes_____ no____)
(check no:_____)

_____ change in type of tool

_____ correction in footage description (___ surface ___ target)

✓ change in formation/total depth

___ change in lease name/well number

_____ change in casing program

_____ correction to X,Y coordinates (_____ surface _____ target)

_____ other (specify):

CORRECTION SHOULD READ:

PROPOSED TD: 9,900 ft

CHANGES AUTHORIZED BY: (Geologist) SD Date: 12/13

HAS MINES BEEN NOTIFIED OF CHANGE: (where applicable) Yes____ No_____ BY_____

DATA ENTERED INTO COMPUTER/ISSUED BY: PN DATE: 12/15/2011

REISSUE PERMIT: YES ✓ NO___ ADD CORRECTION TO PERMIT LIST ✓ YES ___ NO

DATE CORRECTION NEEDED: ASAP TO BE MAILED:_____ TO BE FAXED:_____

FAX NUMBER:_____

COMMENTS:

Opritza, Steve

From: Larry Smyers [lsmyers@dandlenergy.com]
Sent: Tuesday, December 13, 2011 12:08 PM
To: Opritza, Steve
Cc: BenLupo@dandlenergy.com; npaparodis@dandlenergy.com
Subject: Modification for D&L Energy North Star # Collins #6 (SWIW#13) Permit 34-099-23171-00-00

Steve:

Please accept t6his correspondence as D&L's request to modify the above caption permit to reflect the actual footage and formations penetrated.

The North Star # 6 was drilled to a total depth (logger) of 9840', just penetrating the Precambrian basement complex. Please reissue the permit to reflect a proposed total depth of 9900'.

In as far as the permit application, it is intended that the formations intended for injecting fluids are the Knox Dolomite through the Mt. Simon sandstone, however in order to penetrate
all of this section of rock, the well just penetrated the Precambrian Complex. The first page of the original permit indicates "GEOLOGICAL FORMATIONS" and I noticed that Knox-MT. Simon Sandstone is
indicated. For our future reference, is this description adequate, or should Knox-Precambrian be inserted?

Any questions, please let me know.
Thank You
Larry Smyers
D&L Energy

PH; 330-792-9524