

Proof Sheet

APPL NUMBER #PATT019741
OWNER NUMBER 2651
OWNER NAME D & L ENERGY INC
EXISTING WELL 0
API PERMIT NO
APPL TYPE SWIW
TYPE OF WELL SWD
VARIANCE REQUEST
WELL NAME NORTHSTAR KHALIL (Surrexit)
WELL NUMBER 3
PREV/PROPOSED TD 9300
DRILL UNIT ACRES 6.7
TYPE OF TOOL RTAF
WELL CLASS
FIRE PHONE () -911
MEDICAL PHONE () -911
COUNTY CODE 99
COUNTY NAME MAHONING
COAL (Y=1/N=0) -1
CIVIL TOWNSHIP COITSVILLE
SURF QUAD CAMPBELL
Nad 27 SURF ORIG X 2520217
Nad 27 SURF ORIG Y 524113
GROUND ELEVATION 1036
SURF SEC
SURF LOT
SURF QTR TWP
SURF ALLOT
SURF TRACT
SURF FRACTION

URBANIZED AREA ?
NAME CAMPBELL CITY
DISPOSAL PLAN 1 ND
DISPOSAL PLAN 2
DISPOSAL PLAN 3
DISPOSAL PLAN 4
DISPOSAL PLAN 5
MP Check # 0

PROPOSED FORMATIONS

KNOX-PRECAMBRIAN

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

Proof Sheet

SURFACE FOOTAGE

TARGET FOOTAGE

10,769' SL & 1012' WL
of Coitsville Twp.

CASING PROGRAM

SPECIAL CONDITIONS/COMMENTS

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

Class II Drilling and Construction
Conditions

COMPLETION DT

MINES APPROVAL

AFFIDAVIT APPROV

FINAL ENTRY DATE

5/24/2011

6/28/2011

APPLICATION CHECKLIST

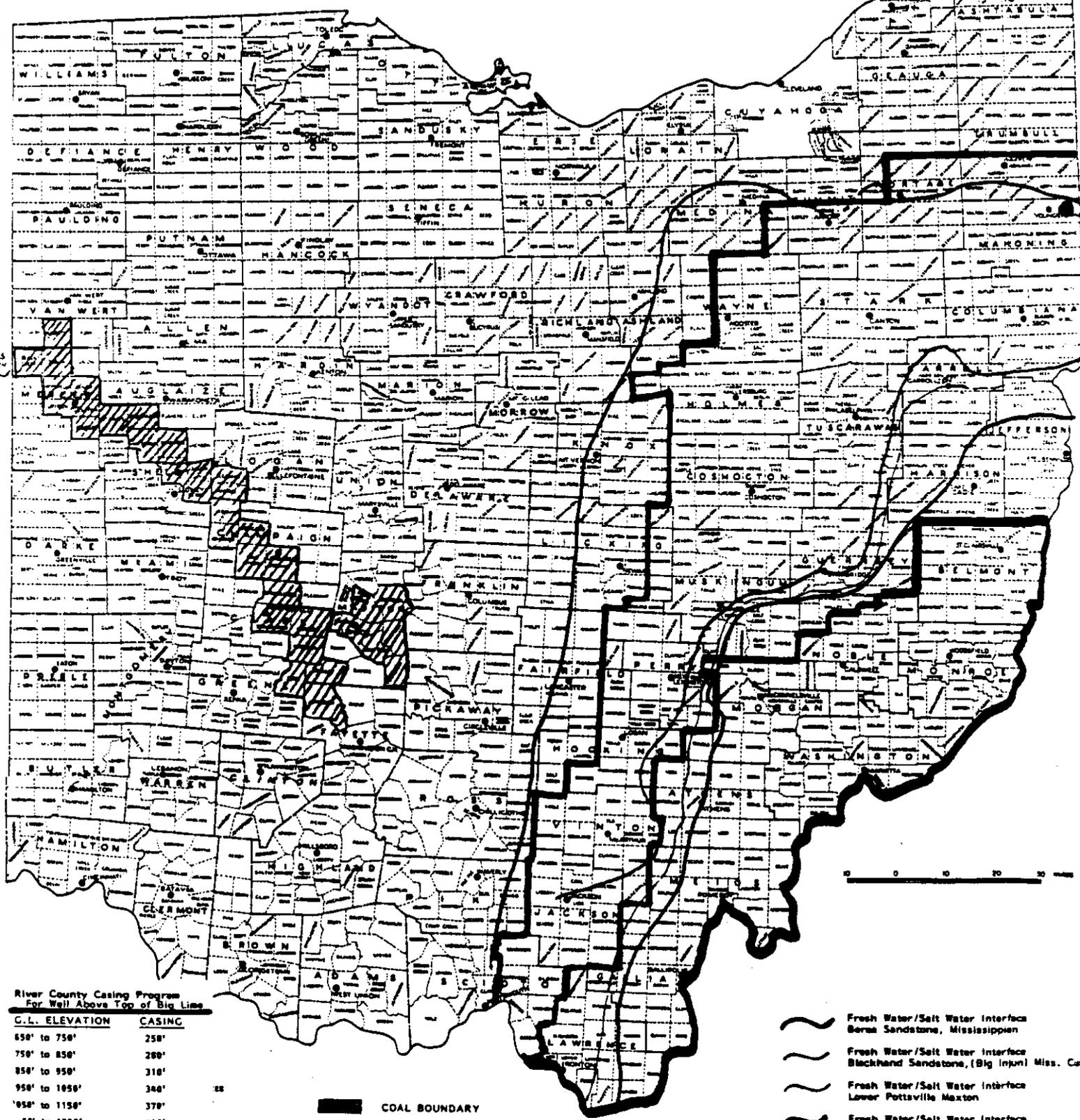
Mahoning Co., Cortsville Twp.
 New well, SW 1/4 # 11, Permit # 3157
 Knox - Mt. Summit

	Date	Initials
Enter on Agenda	5/27/11	DR
Completeness Review	6/1/11	DR
Date - Time Stamp	5/24/11	DR
Area of Review	6/7/11	DR
Site Evaluation	6/14/11	DR
Permitting Section	5/24/11	DR
Memo to Inspector	6/6/11	DR
Public Notice	6/6/11	DR
Letter	6/6/11	
Date Run	6/9/11	
15 Days	6/24/11	
Review Public Notice	6/10/11	DR
Affidavit of Notification	6/6/11	DR
Objections Received	Yes _____ No <input checked="" type="checkbox"/>	DR
Public Hearing Date	NA	DR
Chief's Order, if Required	NA	DR
Schematic	6/7/11	DR
Plot on Map	6/6/11	DR
Review by Geologist	6/20/11	DR
Permit Conditions (Same date as permit)	6/20/11	DR
Enter on Computer (Same or later date than Chief's Order)	6/20/11	DR
Enter on Master List	6/6/11	DR
EPA Form	6/7/11	DR
Mail Permit	6/20/11	DR
Update Agenda	6/20/11	DR
File	6/20/11	DR

RECORD OF CONVERSATION

*Need Urban requirements - talked to Nick at DEL
 6/1/2011 - will also need facility sketch*

Proposed SWIW, New well
 SWIW #11, Mahanoy Co. Contsr. He Dep.

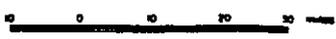


River County Casing Program
 For Well Above Top of Big Line

C.L. ELEVATION	CASING
850' to 750'	250'
750' to 850'	280'
850' to 950'	310'
950' to 1050'	340'
1050' to 1150'	370'
1150' to 1250'	400'
1250' to 1350'	430'
1350'	500'

COAL BOUNDARY

- ~~~~~ Fresh Water/Salt Water Interface
Berea Sandstone, Mississippian
- ~~~~~ Fresh Water/Salt Water Interface
Blackhand Sandstone, (Big Injui) Miss. Carr.
- ~~~~~ Fresh Water/Salt Water Interface
Lower Pottsville Maxton
- ~~~~~ Fresh Water/Salt Water Interface
Upper Allegheny 2nd Cow Run





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

May 19, 2011

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

Ladies and Gentlemen:

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

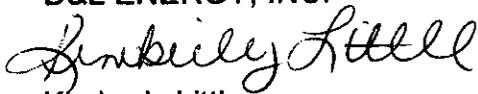
North Star United Well #2
North Star Khalil Well #3
North Star Lucky Well #4

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

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

Very truly yours,

D&L ENERGY, INC.

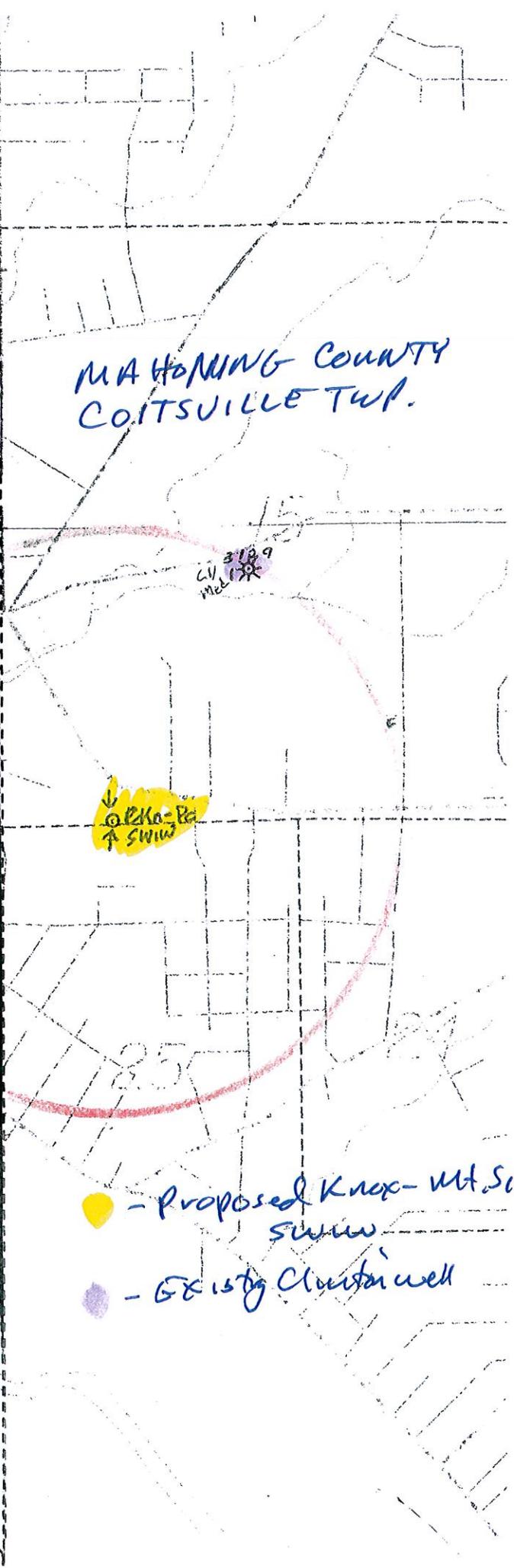
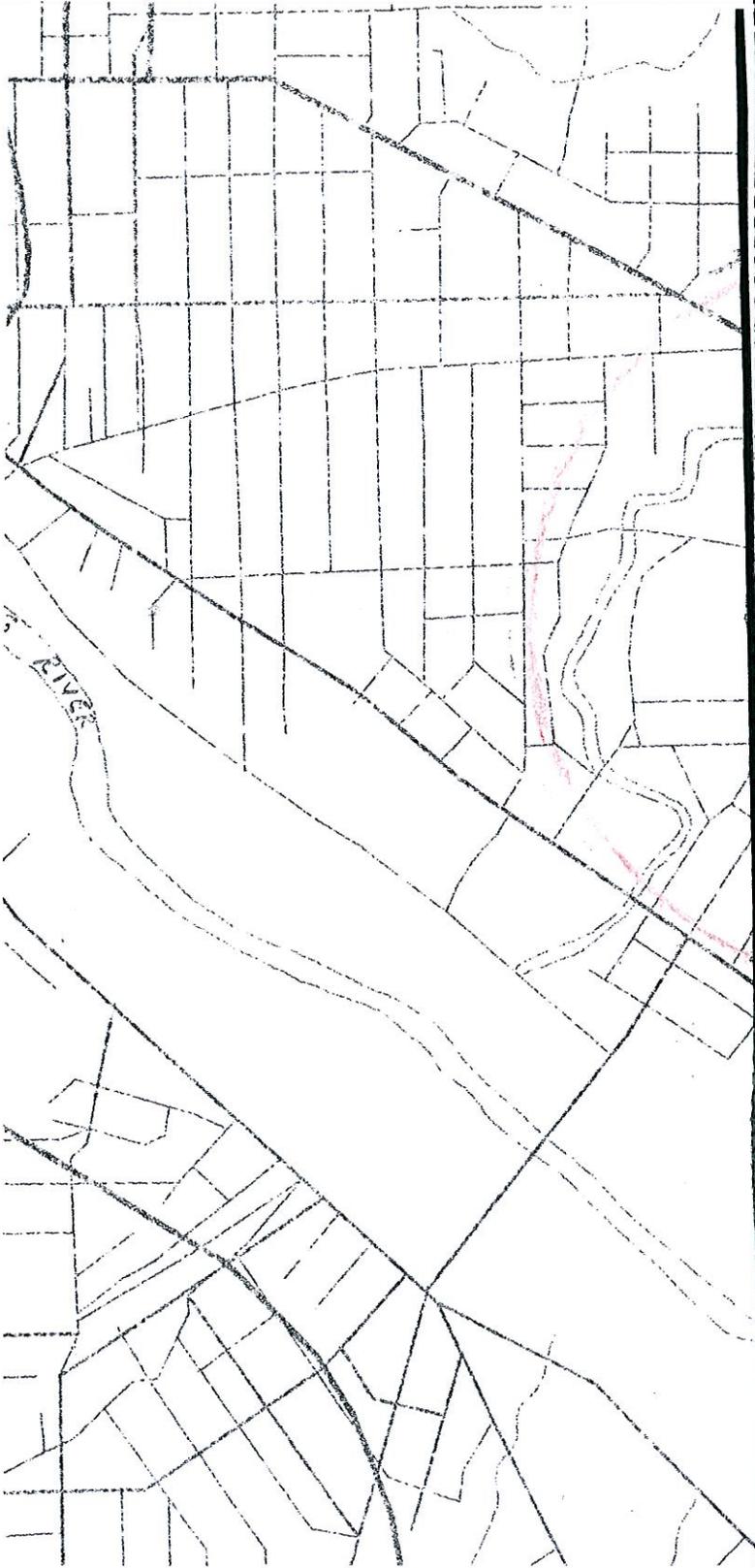

Kimberly Little
Land Administration

/kl

Enclosures



MAHONING COUNTY
COITSVILLE TWP.



CV 3129
Med 122

↓
Knex-Pa
↑
SWW

- - Proposed Knex-Mt. Suncor SWW
- - Existing Christian well

INTER-OFFICE MEMO

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

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

OPERATOR: D & L Energy, Inc.
WELL NAME & NUMBER: Northstar Khalil #3
PERMIT NUMBER: New well, SWIW #11
LOCATION: 10,769' SL & 1012' WL of Coitsville Twp., Mahoning County
PROPOSED INJECTION ZONE: Knox through Mt. Simon Sandstone
DATE RECEIVED: May 24, 2011

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

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. PAPAIOPOULOS being first duly sworn

says that as principal, or authorized agent, for DTL ENERGY, INC.,

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

CITY OF MAHONING County, CAMPBELL 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.

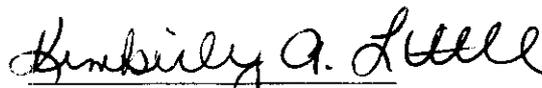


Affiant Signature

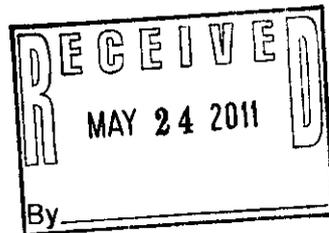
Sworn to before me and subscribed in my presence this 18 day of May,
20 11.



KIMBERLY A. LITTLE
MY COMMISSION EXPIRES
JUNE 1, 2014



Notary Public



NORTH: 524145

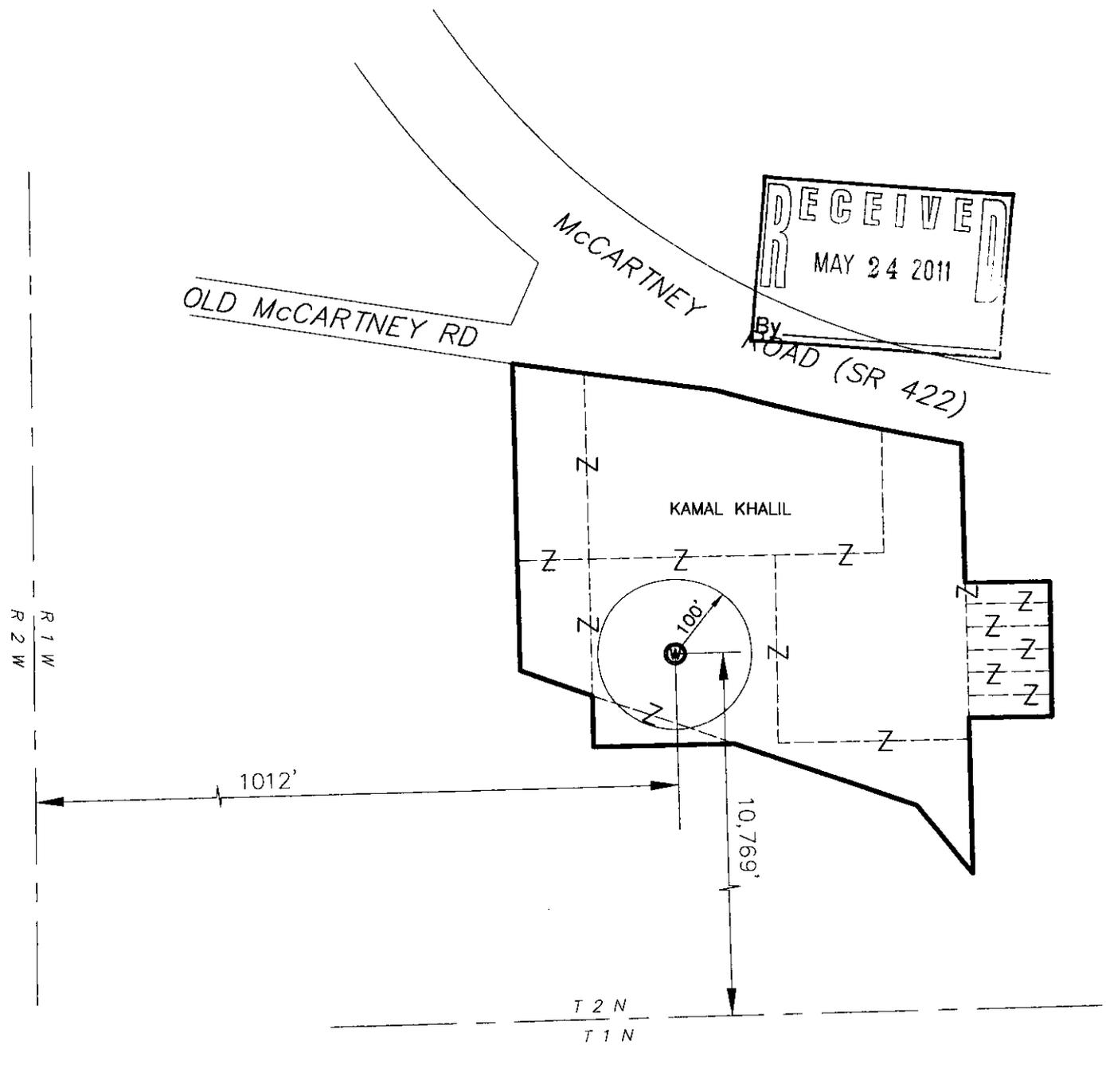
Longitude: 80° 36' 44.65"

EAST: 2488759

WELL LOCATION PLAN

LEGEND:

- ⊙ PROPOSED BRINE WATER INJECTION WELL NEW LOCATION



RECEIVED
 MAY 24 2011
 BY _____
 ROAD (SR 422)

Surveyor or Engineer GARY TANERI	Phone # 330-207-5502	Date MAY 18, 2011	Scale 1"=200'	Acreage 6.7
Lat. & Long Metadata Method GPS	Accuracy 3 ft.	Datum NAD83	Elevation Metadata Method USGS	Accuracy 10 ft.
Datum NAD83	Survey Date 5/17/11	Well(Farm) Name NORTHSTAR KHALIL	Well # 3	
Applicant / Well Operator Name D & L ENERGY, INC.	Address 2761 SALT SPRINGS ROAD YOUNGSTOWN, OH 44509	County MAHONING	Municipality CITY OF CAMPBELL	
Surface Landowner KAMAL KHALIL	USGS 71/2 Quadrangle Map Name CAMPBELL	Angle & Course of Deviation (Drilling) VERTICAL	Surface Elevation 1036 ft.	Anticipated Total Depth 9300 ft.
Surface Lessor D & L ENERGY, INC.				

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



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





Ohio Department of Natural Resources

JOHN R. KASICH, GOVERNOR

DAVID MUSTINE, DIRECTOR

Division of Mineral Resources Management

John F. Husted, Chief

2045 Morse Road, Bldg. H-2

Columbus, OH 43229-6693

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

June 6, 2011

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

RE: Public Notification for SWIW application for Mahoning County, Coitsville Twp., New well, SWIW #11, Northstar Khalil #3 injection well

Dear Mr. Paparodis:

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

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

Sincerely,

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

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

Cc: File



SCALE: 1"=100'

PROPOSED SITE PLAN
FOR
NORTHSTAR KHALIL NO.3

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

Permit # 3157



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



Urbanized Area Permit Conditions

Application Number	Northstar Khalil #3	Permit Number	SWIW #11	Inspection Date	6/14/11	Modification Date (if applicable)	
Company	D & L Energy INC	Lease Name/Well #		North Star Lucky #4			<i>Khalil #3</i>
County	Mahoning	Township		Coitsville			<i>DOB</i>
Section/Lot		Urban Area		City of Campbell			
Inspected By	Carl Roberts						
Accompanied By	Nick Paparodis, VP of Land Operations						

Directions to Location Rte 422 east. Old McCartney road south approx. 60 feet. Access is on the east side.

ITEM	LEASE ROAD, WELL SITE CONSTRUCTION	Comments:
1	Tree/Brush Removal/Disposition	The trees will be chipped, buried and stock piled.
2	Topsoil Removal/Stockpiles/Placement	The topsoil will be placed to the south side.
3	Erosion/Sediment Control (Silt Fence, Berms)	A silt fence will be placed on the south, east and west sides of the location.
4	Drainage Controls (Diversion Ditches, Culverts, Waterways, Crossings)	There are no waterways or crossings. A silt fence will be placed on the south, east and west sides of the location.
5	Signage	The ID sign will be posted on Old McCartney road.
6	Apron/Culverts/Road Material	Rocks will be used.
7	Pull Off Area	The pull off area will be at the drilling site.
8	Parking	The parking will be at the drilling site.
9	GPS - Access Road	41.09104 80.61269
10	GPS - Well Stake	41.08997 80.61236
11	GPS - Tank Battery	41.09015 80.61221

ITEM	DRILLING CONSIDERATIONS	Comments:		
	Noise Mitigation			
12	(Mufflers, Extra Frac Tanks, Tarps)	Hospital mufflers will be used on the drilling rig.		
13	Rig Type			
14	Is a Blow-out Preventor required?	X	Yes	No
	If No, explain:	The rig will be an air, fluid rotary rig.		
	Equipment Placement/ Orientation (Rig/ Frac Tanks/ etc.)			
15		It is recommended that the drilling rig be placed north to south.		
16	Drilling Pits (Placement/Orientation)	It is recommended that the drilling pits be placed on the east side of the drilling rig, north to south.		
17	Fencing (Pits/Entire Location)	The drilling pits will be fenced in.		
18	Flood Plain	There is no known flood plain in the area.		
19	Mine Voids	There are no known mines in the area.		
20	Verify Water Wells Within 300'	The area is on city water.		
21	Verify Structures Within 500'	There are 6 structures within 500 feet		
22	Verify Streams and Drainage	There are no streams. Drainage to the south side, east side and west side.		

ITEM	RESTORATION	Comments:		
23	Pit Closure - (Standard/ Solidification/ Off-Site Disposal - state time frame)	The drilling pits will be solidified and closed within 14 days after the drilling is complete		
24	Site Specific Time Frame For Restoration	The entire location will be put back within 3 months after the date upon which the surface drilling of the well is commenced		
25	Erosion/Sediment Control	A silt fence will be placed on the south, east and west sides of the location		
26	Drainage Control	A silt fence will be placed on the south, east and west sides of the location		

ITEM	PRODUCTION	Comments:		
27	Is the Access Road Gate required?	X	Yes	No
	If No, explain:			
28	Landscaping/Screening (Wellhead, Tank Battery) (Waiver Attached if applicable)	A chain link fence with 3 strands of barbed wire on top will be place around the wellhead and the tank battery		
29	Fencing (Wellhead, Tank Battery) (Waiver Attached if applicable)	A chain link fence with 3 strands of barbed wire on top will be place around the wellhead and the tank battery		

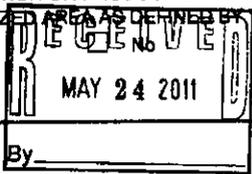
WAIVERS	Comments:		
Is the Company required to submit a waiver?	Yes	X	No
If yes, submit the following waiver requests:			
Is the Company required to submit revised drawings?	Yes	X	No

THE FOLLOWING ITEMS HAVE BEEN CHANGED FROM THE ORIGINAL APPLICATION:

APPLICATION FOR A PERMIT (Form 1)
OHIO DEPARTMENT OF NATURAL RESOURCES
DIVISION OF MINERAL RESOURCES MANAGEMENT
 2045 Morse Road, Building H-3
 COLUMBUS, OHIO 43229-8893
 (614) 265-6633

SEE INSTRUCTIONS ON PAGE 2 (BACK)

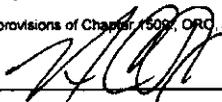
1. I, We (applicant) <u>D&L ENERGY, INC.</u> 2. Owner #: <u>2651</u>	
(address) <u>2761 SALT SPRINGS RD., YOUNGSTOWN, OH 44509</u> Phone #: <u>330-782-9524</u>	
heraby apply this date <u>MAY 18</u> , 20 <u>11</u> for a permit to:	
<input type="checkbox"/> Reissue (check appropriate blank) <input type="checkbox"/> 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: <u>D&L ENERGY, INC. 2761 SALT SPRINGS RD. YOUNGSTOWN, OH 44509</u>	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>MAHONING</u>	21. PROPOSED CASING PROGRAM: <u>11-3/4" FOR 100 FT., 9-3/4" FOR 400 FT CEMENTED TO SURFACE, 7" CEMENTED TO SURFACE</u>
6. CIVIL TOWNSHIP: <u>CITY OF CAMPBELL</u>	
7. SECTION: <u>8. LOT:</u>	
9. FRACTION: <u>10. QTR TWP:</u>	
11. TRACT / ALLOT: _____	
12. WELL #: <u>3</u>	
13. LEASE NAME: <u>NORTHSTAR KHALIL</u>	
14. PROPOSED TOTAL DEPTH: <u>9300</u>	22. FIRE AND MEDICAL DEPARTMENT TELEPHONE NUMBERS: (closest to well site) Fire: <u>911</u> Medical: <u>911</u>
15. PROPOSED GEOLOGICAL FORMATION: <u>KNOX-PRECAMBRIAN</u>	23. MEANS OF INGRESS & EGRESS: Township Road: _____ County Road: _____ Municipal Road: _____ State Highway: <u>STATE ROUTE 422</u>
16. DRILLING UNIT IN ACRES (must be same as acres indicated on plat): <u>6.7</u>	
17. IF PERMITTED PREVIOUSLY: API #: _____ OWNER: _____ WELL #: _____ LEASE NAME: _____ TOTAL DEPTH: _____ GEOLOGICAL FORMATION: _____	
18. IF SURFACE RIGHTS ARE OWNED BY THE OHIO DEPARTMENT OF NATURAL RESOURCES 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>KAMAL KHALIL</u> Address: <u>19 CREED CR., CAMPBELL, OH 44405</u> Name: _____ Address: _____ Name: _____ Address: _____	

24. IS THE WELL LOCATION OR PRODUCTION FACILITIES WITHIN AN URBANIZED AREA AS DEFINED BY 1509.01(Y) ?
 Yes

 By _____

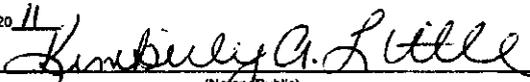
I, the undersigned, being first duly sworn, depose and state under penalties of law, that I am authorized to make this application, that this application was prepared by me or under my supervision and direction, and that the facts stated herein are true, correct, and complete, to the best of my knowledge.

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: 
 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 18 day of may, 2011

 (Notary Public)

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

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

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

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

31. PROPOSED INJECTION ZONE

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

32. WELL CONSTRUCTION AND OPERATION

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

B. Proposed method for testing the casing:
Mechanical Integrity test, then daily monitoring with a chart recorder.
Pressure test annulus to 1890 psi for 15 minutes with pressure no more than a 5% decline.

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

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

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

RECEIVED
MAY 24 2011
BY _____

33. PROPOSED INJECTION VOLUMES

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

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

34. PROPOSED INJECTION PRESSURES

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

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

35. PROPOSED CORRECTIVE ACTION

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

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. PAPARDOIS being first duly sworn

says that as principal, or authorized agent, for DTL ENERGY, INC.,

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

MAHONING County, CAMPBELL 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.

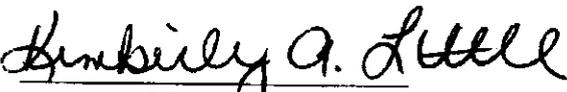


Affiant Signature

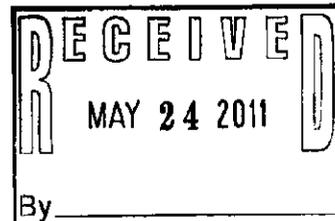
Sworn to before me and subscribed in my presence this 18 day of May,
20 11.



KIMBERLY A. LITTLE
MY COMMISSION EXPIRES
JUNE 1, 2014



Notary Public



McCARTNEY ROAD (SR 422)
OLD McCARTNEY RD

UNLOADING PAD

TANK
CONTAINMENT
AREA

PUMP HOUSE

ACCESS ROAD

FLOWLINE

PITS

SILT FENCE

1030

SF

SF

SF

SF

SF

SF

1034

1036

SF

SF

SF

1038

1040

1042



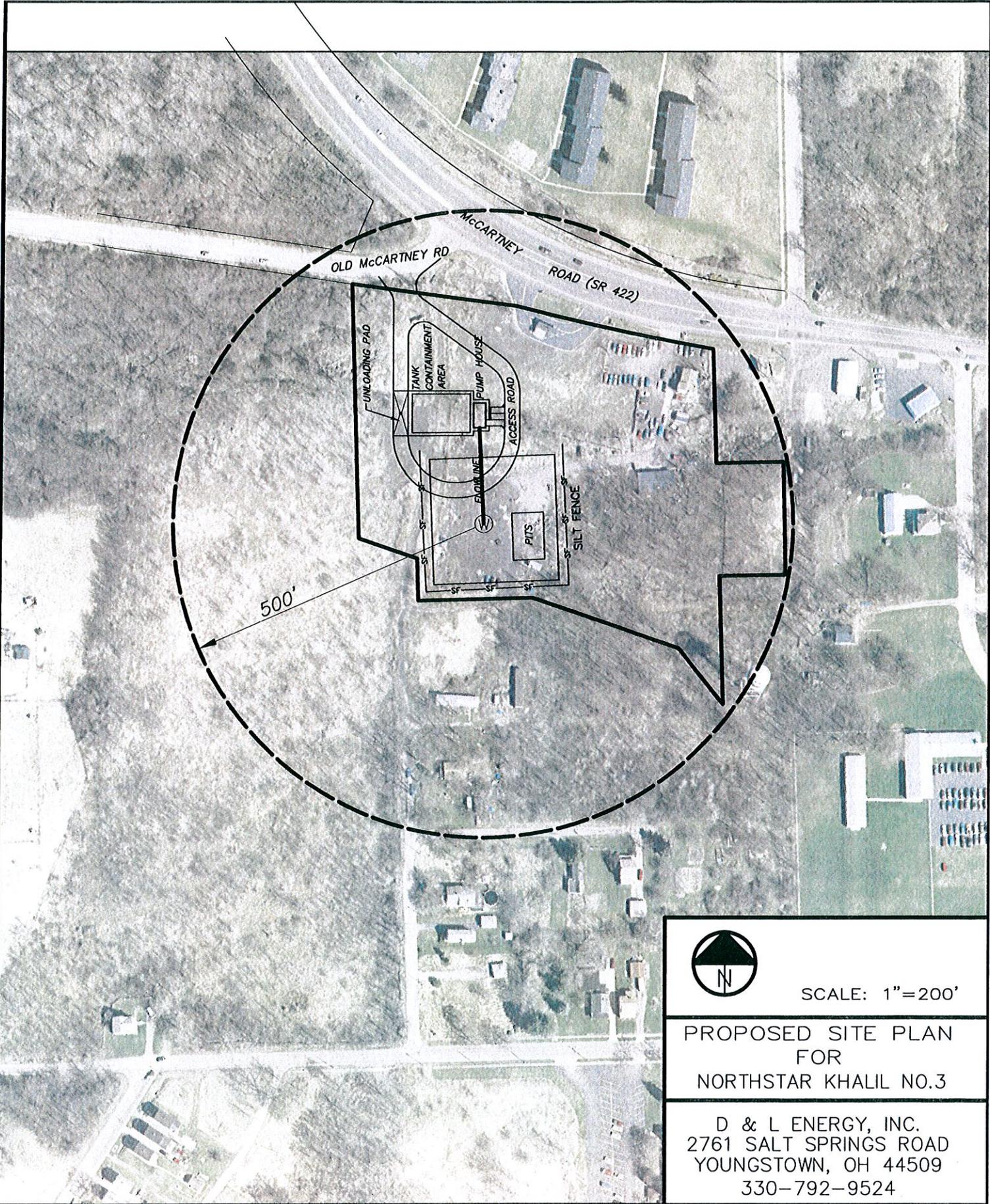
SCALE: 1"=100'

PROPOSED SITE PLAN
FOR
NORTHSTAR KHALIL NO.3

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

100'

1032



SCALE: 1"=200'

PROPOSED SITE PLAN
FOR
NORTHSTAR KHALIL NO.3

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

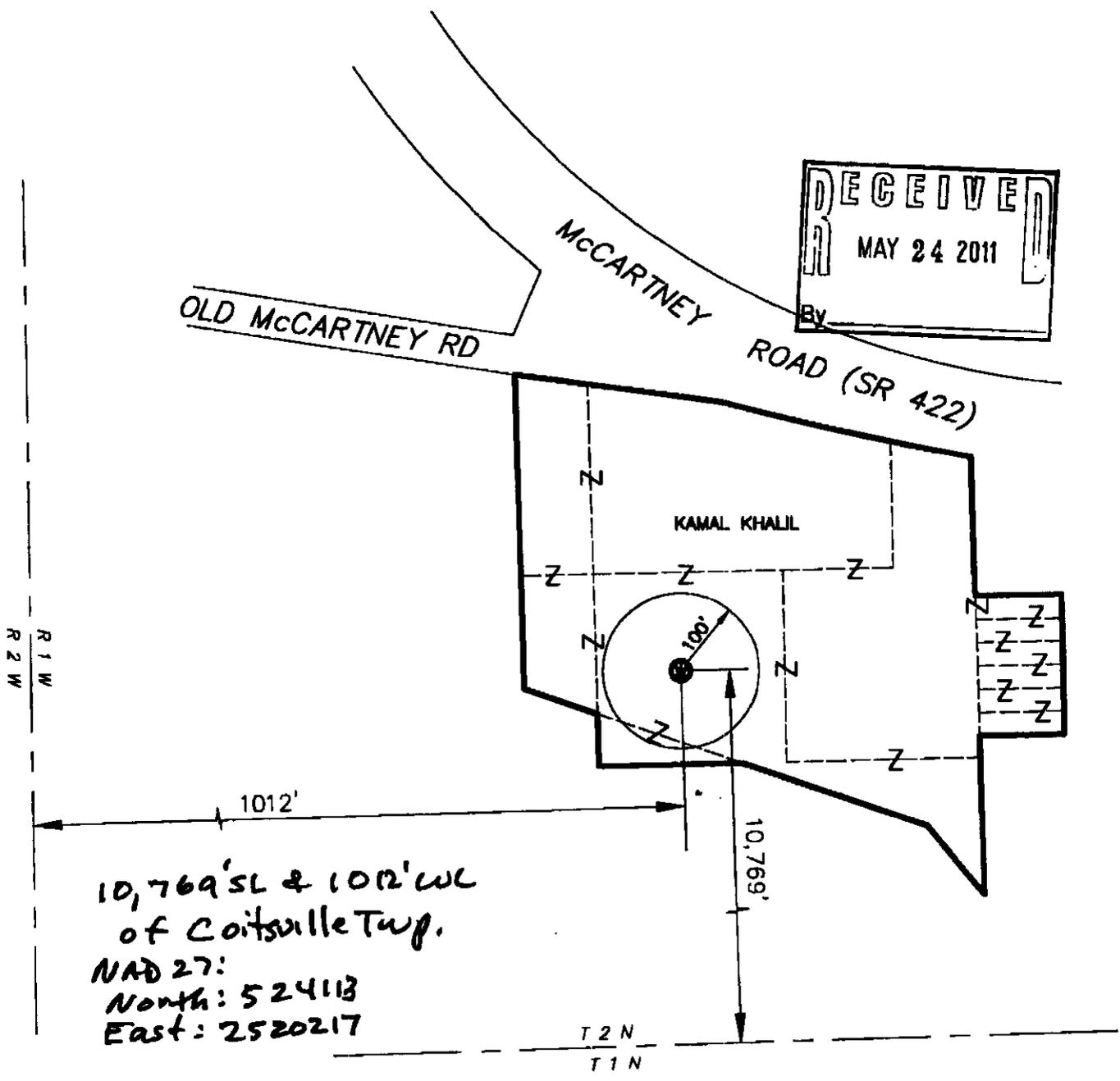
Latitude: 41° 05' 23.61"
 NORTH: 524145
 Longitude: 80° 36' 44.65"
 EAST: 2488759

WELL LOCATION PLAT

LEGEND:

- PROPOSED BRINE WATER INJECTION WELL NEW LOCATION

RECEIVED
 MAY 24 2011
 BY _____



Surveyor or Engineer GARY TANERI	Phone # 330-207-5502	Date MAY 18, 2011	Scale 1"=200'	Acres 6.7
Lat. & Long. Method Method GPS Accuracy 3 ft. Datum NAD83	Elevation Method Method USGS Accuracy 10 ft. Datum NGVD29	Survey Date 5/17/11		
Applicant / Well Operator Name D & L ENERGY, INC.	Well/Farm Name NORTHSTAR KHALIL	Well # 3		
Address 2761 SALT SPRINGS ROAD YOUNGSTOWN, OH 44509	County MAHONING	Municipality CITY OF CAMPBELL		
Surface Landowner KAMAL KHALIL	USGS 7.5 Quadrangle Map Name CAMPBELL	Surface Elevation 1036 ft.	Anticipated Total Depth 9300 ft.	
Surface Lessor D & L ENERGY, INC.	Angle & Course of Deviation (Drilling) VERTICAL			

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

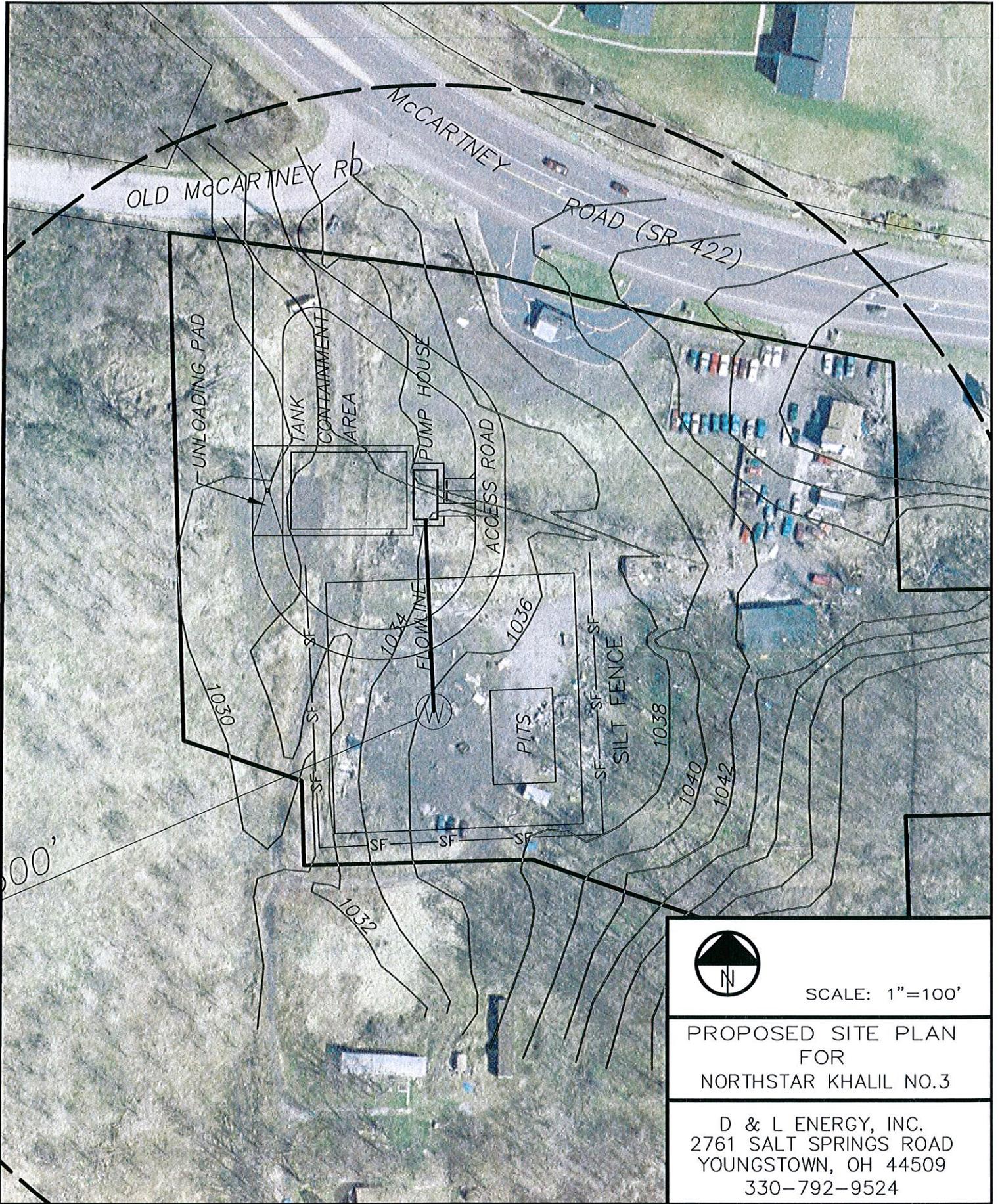


[Signature]
 Gary Richard Taneri
 Registered Professional Surveyor No. 7672
 Date
 5/18/11



**Aerial Maps
are available for
this Permit.**

**Maps are on file
with the Division.**



	SCALE: 1"=100'
PROPOSED SITE PLAN FOR NORTHSTAR KHALIL NO.3	
D & L ENERGY, INC. 2761 SALT SPRINGS ROAD YOUNGSTOWN, OH 44509 330-792-9524	

P# 34-099-2-3157-00-00

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: 18-May-11</p>	<p>3. API #:</p>															
<p>2. OWNER NAME, ADDRESS, & TELEPHONE NO.: D&L ENERGY, INC., 2761 SALT SPRINGS RD., YOUNGSTOWN, OH 44509</p>	<p>4. WELL #: 13</p>															
	<p>5. LEASE NAME: NORTHSTAR KHALIL</p>															
	<p>6. PROPERTY OWNER: KAMAL KHALIL</p>															
	<p>7. COUNTY: MAHONING</p>															
	<p>8. CIVIL TOWNSHIP: CITY OF CAMPBELL</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><input checked="" type="checkbox"/> Commercial</td> </tr> <tr> <td><input type="checkbox"/> Pasture</td> <td><input type="checkbox"/> Idle Land</td> </tr> <tr> <td><input type="checkbox"/> Wetlands</td> <td><input type="checkbox"/> Recreational</td> </tr> <tr> <td><input type="checkbox"/> Residential</td> <td><input type="checkbox"/> Industrial</td> </tr> <tr> <td><input type="checkbox"/> Unreclaimed strip mine</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Woodland: <input type="checkbox"/> Broadleaf <input type="checkbox"/> Needlelike</td> <td></td> </tr> </table>	<input type="checkbox"/> Cropland	<input checked="" type="checkbox"/> Commercial	<input type="checkbox"/> Pasture	<input type="checkbox"/> Idle Land	<input type="checkbox"/> Wetlands	<input type="checkbox"/> Recreational	<input type="checkbox"/> Residential	<input type="checkbox"/> Industrial	<input type="checkbox"/> Unreclaimed strip mine		<input type="checkbox"/> Woodland: <input type="checkbox"/> Broadleaf <input type="checkbox"/> Needlelike		<p>17. TYPE OF WELL:</p> <p><input type="checkbox"/> Oil <input type="checkbox"/> Gas <input checked="" type="checkbox"/> Other</p>			
<input type="checkbox"/> Cropland	<input checked="" type="checkbox"/> Commercial															
<input type="checkbox"/> Pasture	<input type="checkbox"/> Idle Land															
<input type="checkbox"/> Wetlands	<input type="checkbox"/> Recreational															
<input type="checkbox"/> Residential	<input type="checkbox"/> Industrial															
<input type="checkbox"/> Unreclaimed strip mine																
<input type="checkbox"/> Woodland: <input type="checkbox"/> Broadleaf <input type="checkbox"/> Needlelike																
	<p>18. STEEPEST SLOPE GRADIENT CROSSING SITE:</p> <p><input type="checkbox"/> 0 to 2% <input checked="" type="checkbox"/> 2.1 to 8%</p> <p><input type="checkbox"/> 8.1 to 10% <input type="checkbox"/> greater than 24%</p> <p><input type="checkbox"/> 10.1 to 24%</p>															
<p>12. SLOPE GRADIENT & LENGTH DETERMINED FROM:</p> <p><input type="checkbox"/> Ground Measurement</p> <p><input type="checkbox"/> U.S. Geological Survey Topographical Maps</p> <p><input checked="" type="checkbox"/> Other: (explain) COUNTY GIS MAP</p>	<p>19. LENGTH OF STEEPEST SLOPE CROSSING SITE:</p> <p><input checked="" type="checkbox"/> 1 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>13. TYPE OF FALL VEGETAL COVER:</p> <p><input checked="" type="checkbox"/> Little or no vegetal cover</p> <p><input type="checkbox"/> Short grasses</p> <p><input type="checkbox"/> Tall weeds or short brush (1 to 2 ft.)</p> <p><input type="checkbox"/> Brush or bushes (2 to 6 ft.)</p> <p><input type="checkbox"/> Agricultural crops</p> <p><input type="checkbox"/> Trees with sparse low brush</p> <p><input type="checkbox"/> Trees with dense low brush</p>	<p>20. RESTORATION OF DRILLING PITS: **</p> <p><input checked="" type="checkbox"/> Haul drilling fluids and fill pits</p> <p><input type="checkbox"/> Use steel circulating tanks</p> <p><input type="checkbox"/> Proposed alternative</p>															
<p>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>21. BACKFILLING AND GRADING AT SITE:</p> <p><input type="checkbox"/> Construct diversions channeled to naturally established drainage systems</p> <p><input type="checkbox"/> Construct terraces across slopes</p> <p><input checked="" type="checkbox"/> Grade to approximate original contour</p> <p><input type="checkbox"/> Grade to minimize erosion & control offsite runoff</p> <p><input type="checkbox"/> Proposed alternative</p>															
<p>15. DISPOSAL PLAN FOR TREES AND TREE STUMPS:</p> <p><input checked="" type="checkbox"/> No trees disturbed <input type="checkbox"/> Haul to landfill</p> <p><input type="checkbox"/> Cut into firewood <input type="checkbox"/> Sell to lumber company</p> <p><input type="checkbox"/> Bury with landowner's approval</p> <p><input type="checkbox"/> Mulch small trees and branches, erosion control</p> <p><input type="checkbox"/> Use for wildlife habitat with landowner approval</p> <p><input type="checkbox"/> Proposed alternative</p>	<p>22. VEGETATIVE COVER TO BE ESTABLISHED AT SITE:</p> <p><input checked="" type="checkbox"/> Seeding plan <input type="checkbox"/> Sod</p> <p><input type="checkbox"/> Agricultural crops <input type="checkbox"/> Trees and/or Bushes</p> <p><input type="checkbox"/> Proposed alternative</p>															
	<p>23. ADDITIONAL HOLES:</p> <p><input checked="" type="checkbox"/> Rat/Mouse, if used, will be plugged</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>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>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 checked="" type="checkbox"/> Commercial</td> </tr> <tr> <td><input checked="" type="checkbox"/> Idle land</td> <td><input type="checkbox"/> Wetlands</td> <td><input type="checkbox"/> Recreational</td> </tr> <tr> <td><input type="checkbox"/> Industrial</td> <td><input type="checkbox"/> Residential</td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/> Unreclaimed strip mine</td> <td></td> <td></td> </tr> <tr> <td><input type="checkbox"/> Woodland: <input type="checkbox"/> Broadleaf <input type="checkbox"/> Needlelike</td> <td></td> <td></td> </tr> </table>	<input type="checkbox"/> Cropland	<input type="checkbox"/> Pasture	<input checked="" type="checkbox"/> Commercial	<input checked="" type="checkbox"/> Idle land	<input type="checkbox"/> Wetlands	<input type="checkbox"/> Recreational	<input type="checkbox"/> Industrial	<input type="checkbox"/> Residential		<input checked="" type="checkbox"/> Unreclaimed strip mine			<input type="checkbox"/> Woodland: <input type="checkbox"/> Broadleaf <input type="checkbox"/> Needlelike		
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****PITS MUST BE FILLED WITHIN TWO MONTHS AFTER COMMENCEMENT OF THE WELL AND WITHIN FOURTEEN DAYS AFTER COMMENCEMENT OF THE WELL IN AN URBANIZED AREA.**

REQUIRED BY SECTION 1509.06 (A)(10), OHIO REVISED CODE - FAILURE TO SUBMIT MAY RESULT IN AN ASSESSMENT OF CRIMINAL FINES NOT LESS THAN \$100.00 NOR MORE THAN \$2,900.00 OR CIVIL PENALTIES NOT LESS THAN \$4,000.00.



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 3, 2011

City of Campbell Ohio
351 Tenney Avenue
Campbell, OH 44405

Sample
Letter

Dear Landowner(s):

D & L Energy, Inc. is writing to let you know that we have made an application with the Ohio Department of Natural Resources, Division of Mineral Resources Management, in Columbus, Ohio to drill a salt water injection well (North Star Khalil #3) shown on the enclosed well plat. As required we are notifying all property owners located within 500' of the well site.

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

Very truly yours,

Kimberly A. Little

Kimberly Little
Land Administration

Enclosure

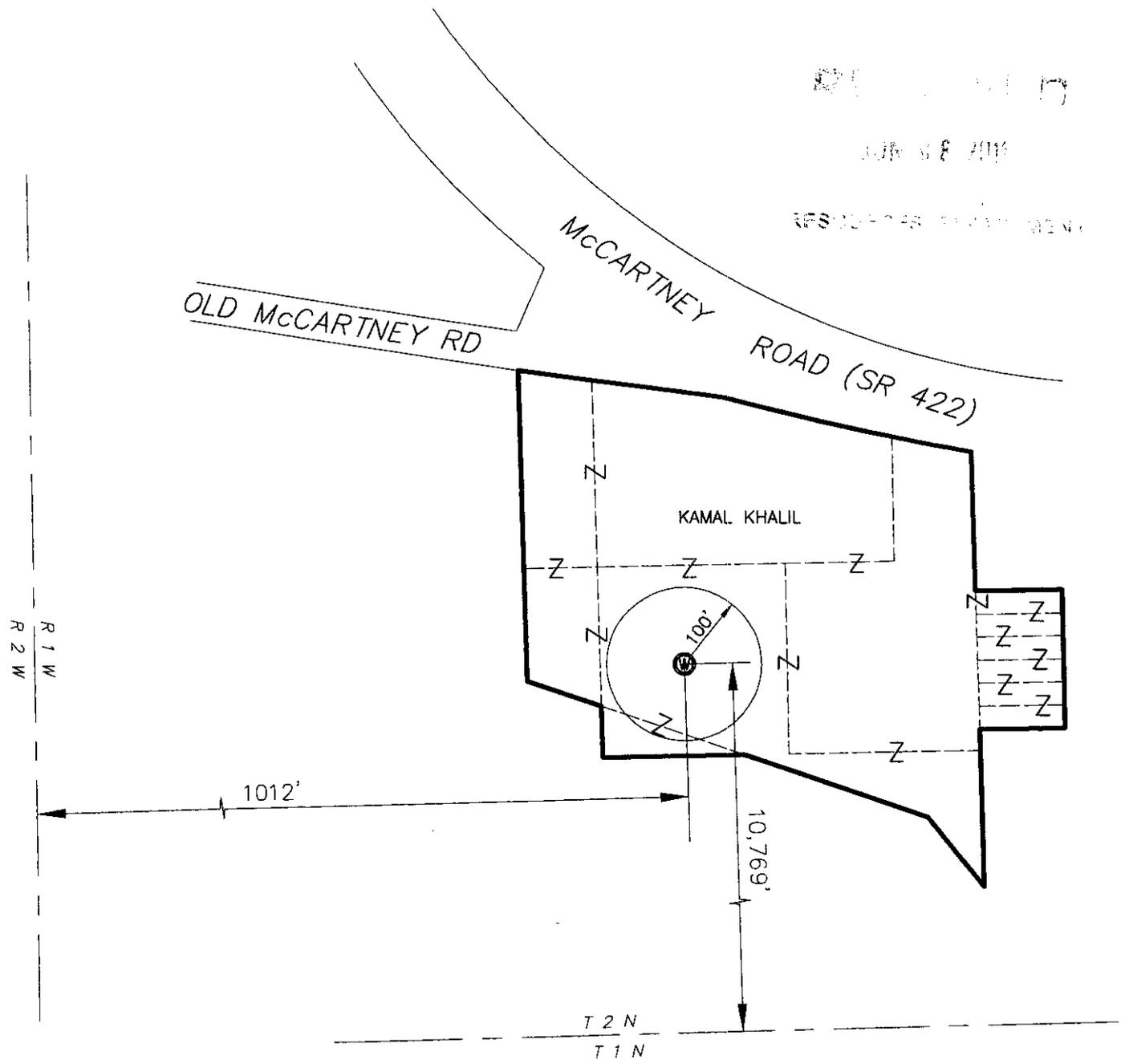
RECEIVED
JUN 09 2011
DIVISION OF MINERAL RESOURCES MANAGEMENT

Latitude: 41° 05' 23.61"
 NORTH: 524145
 Longitude: 80° 36' 44.65"
 EAST: 2488759

WELL LOCATION PL. T

LEGEND:
 (W) PROPOSED BRINE WATER INJECTION WELL
 NEW LOCATION

RESERVED FOR FUTURE DEVELOPMENT



Surveyor or Engineer	GARY TANERI	Phone #	330-207-5502	Date	MAY 18, 2011	Scale	1"=200'	Acreage	6.7		
Lat. & Long Metadata Method	GPS	Accuracy	3 ft.	Datum	NAD83	Elevation Metadata Method	USGS	Accuracy	10 ft. Datum NGVD29	Survey Date	5/17/11
Applicant / Well Operator Name	D & L ENERGY, INC.			Well(Farm) Name	NORTHSTAR KHALIL		Well #	3			
Address	2761 SALT SPRINGS ROAD YOUNGSTOWN, OH 44509			County	MAHONING		Municipality	CITY OF CAMPBELL			
Surface Landowner	KAMAL KHALIL			USGS 71/2 Quadrangle Map Name	CAMPBELL						
Surface Lessor	D & L ENERGY, INC.			Angle & Course of Deviation (Drilling)	VERTICAL		Surface Elevation	1036 ft.	Anticipated Total Depth	9300 ft.	

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



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



RECEIVED
JUN 18 2019
RESOURCES MANAGEMENT

N Star Khalil # 3

Letters mailed to:

City of Campbell Ohio
351 Tenney Avenue
Campbell, OH 44405

Barbara Dragovich
c/o Mahoning County Treasurer
120 Market Street
Youngstown, OH 44503

Randy P. Samulka &
David W. Parks
180 Haseltine Avenue
Campbell, OH 44405

Clara Lentine
600 Sixth Street
Campbell, OH 44405

Clair F & D S Copanic
12921 Springfield Road
New Springfield, OH 44443

Daniel Ott
401 N. Blaine Avenue
Youngstown, OH 44506