

APPLICATION CHECKLIST

Portage County, Atwater Twp.

Kelly #1 SWD Permit #

SWIN # 44

	Date	Initials
Enter on Agenda	5/1/12	AA
Completeness Review	7-9-12	AA
Date - Time Stamp	5-1-12	AA
Area of Review	6/15/12	AA
Site Evaluation	8-9-12	AA
Permitting Section		
Memo to Inspector	7-24-12	Jmb
Public Notice	8-1-12	AA
Letter	8-1-12	
Date Run		
15 Days		
Review Public Notice		
Affidavit of Notification		
Objections Received	Yes _____ No _____	
Public Hearing Date		
Chief's Order, if Required		
Schematic	6-21-12	AA
Plot on Map	6-28-12	AA
Review by Geologist		
Permit Conditions (Same date as permit)		
Enter on Computer (Same or later date than Chief's Order)		
Enter on Master List	7-9-12	AA
EPA Form	7-9-12	AA
Mail Permit		
Update Agenda		
File		

RECORD OF CONVERSATION

- Location determined to be reconnected by ODGS. Updated location corrected in RBIMS on 6/15/12. Permit review by ODGS completed _____.
- Need surface facility sketch
- Asked Mike Kelly for surface facility 7-25-12 via telephone AA

DAILY ROUTE SLIP *Atwater*

APPLICATION NO. aPATT020601

TYPE: Salt Water Injection Well

CONAME EVROL LLC

API

WELL NAME /NO. ~~EVROL LLC~~ *Kelly #1*

EVROL

COUNTY 133 PORTAGE *AA*

INITIALS

DATE

DATE APPLICATION REC'D

PN

5/1/2012

PERMIT FEE AND CHECK NO.

\$1,000.00

1138

RUSH AMOUNT RUSH CHECK NO.

\$0.00

0

APPLICATION ENTERED

PN

5/1/2012

APPLICATIONS AND PLATS SENT FOR MINE APPROVAL

—

—

COAL APPROVAL RECEIVED

NA

AA 7-23-12

OIL/GAS AFFIDAVIT REC'D

—

—

URBANIZED AREA NOTIFICATION SENT

—

—

URBANIZED AREA NOTIFICATION SENT TO INSPECTOR/REC'D BACK

—

—

URBAN MAP REVIEW

—

—

SAMPLES: YES — /SPECIAL AREAS

—

—

GEOLOGIST APPROVAL

—

—

DATA ENTRY /ISSUED

—

—

PERMIT: TAKEN — MAILED —

—

—

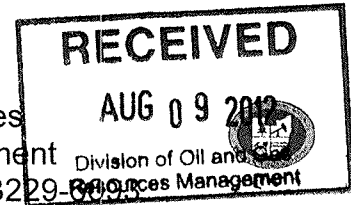
FAX TO: —

FINAL MAP CHECK

COMMENTS: *On hold for well limit - no wells listed on bond as of 5/1/2012*



Ohio Department of Natural Resources
Division of Mineral Resources Management
2045 Morse Rd. Bldg. H-3 – Columbus OH 43229-6095



SWIW Permit Conditions

Application Number	SWIW #37	Permit Number		Inspection Date	08/07/12	Modification Date (if applicable)	
Company	Evrol, LLC.		Lease Name/Well #	Kelly #1			
County	Portage		Township	Atwater			
Section/Lot	Lot 98		Urban Area	N/A			
Inspected By							Stephen Ochs
Accompanied By	Mike Kelly (Company)						

Directions to Location | Just south of SR 224; west side of Bank Street

ITEM	LEASE ROAD, WELL SITE CONSTRUCTION	Comments:
1	Tree/Brush Removal/Disposition	None
2	Topsoil Removal/Stockpiles/Placement	Stockpiled on location
3	Erosion/Sediment Control (Silt Fence, Berms)	Silt fence used where needed
4	Drainage Controls (Diversion Ditches, Culverts, Waterways, Crossings)	Existing drainage controls
5	Signage	As required by OAC 1501: 9-3-06
6	Apron/Culverts/Road Material	Existing access road
7	Pull Off Area	Well site
8	Parking	Well site
9	GPS – Access Road	41.03218 -81.16416
10	GPS – Well Stake	41.03212 -81.16642
11	GPS – Tank Battery	41.03165 -81.16518

ITEM	DRILLING CONSIDERATIONS	Comments:
12	Noise Mitigation (Mufflers, Extra Frac Tanks, Tarps)	N/A
13	Rig Type	Fluid and Air Rotary

14	Is a Blow-out Preventor required?	X	Yes		No
	If No, explain:				
15	Equipment Placement/ Orientation (Rig/ Frac Tanks/ etc.)	N/A			
16	Drilling Pits (Placement/Orientation)	N/A			
17	Fencing (Pits/Entire Location)	Existing fencing			
18	Flood Plain	N/A			
19	Mine Voids	None			
20	Verify Water Wells Within 300'	None			
21	Verify Structures Within 500'	Industrial Buildings			
22	Verify Streams and Drainage	Drainage west toward retention pond on Deer Creek Branch			

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

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)	N/A		
29	Fencing (Wellhead, Tank Battery) (Waiver Attached if applicable)	N/A		

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
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THE FOLLOWING ITEMS HAVE BEEN CHANGED FROM THE ORIGINAL APPLICATION:



Ohio Department of Natural Resources

JOHN R. KASICH, GOVERNOR

JAMES ZEHRINGER, DIRECTOR

Division of Oil and Gas Resources Management

Richard J. Simmers, Chief

2045 Morse Road, Bldg. F-2

Columbus, OH 43229-6693

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

August 1, 2012

Mr. Michael D. Kelly
Evrol, LLC
957 Damon Drive
Medina, Ohio 44256

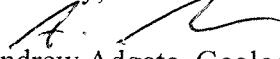
**RE: Public Notification for SWIW application for Portage County, Atwater Twp.,
new well, Evrol, LLC, Kelly SWD #1 injection well**

Dear Mr. Kelly:

As outlined in Rule 1501: 9-3-06 (H) (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 no less than five consecutive days. 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,


Andrew Adgate, Geologist

UIC Section

Division of Oil and Gas Resources Management

2045 Morse Road, F-2

Columbus, Ohio 43229-6693

Cc: File

PUBLIC NOTICE

Evrol, LLC, 957 Damon Drive
Medina, Ohio 44256 (330) 242-0342
is applying to permit a well for the
injection of brine water produced in
association with oil and natural gas.
The location of the proposed
injection well is the Kelly SWD #1
well, New well, Lot 98, Atwater
Township, Portage County, Ohio.
The proposed well will inject into
Newburg dolomite at a depth of
4160 to 4300 feet. The average
injection is estimated to be 1500
barrels per day. The maximum
injection pressure is estimated to be
960 psi. Further information can
be obtained by contacting Evrol,
LLC or the Division of Oil and Gas
Resources Management. The
address of the Division is: Ohio
Department of Natural Resources,
Division of Oil and Gas Resources
Management, 2045 Morse Road,
Building F-2, Columbus, Ohio
43229-6693, (614) 265-6633. For full
consideration, all comments and
objections must be received by the
Division, in writing, within fifteen
calendar days of the last date of this
published legal notice.

INTER-OFFICE MEMO

TO: Stephen Ochs, Mineral Resources Inspector
FROM: Glenda M. Besana-Ostman, Geologist *gmb*
SUBJECT: Application and Site Evaluation for a SWIW permit
DATE: July 24, 2012

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

OPERATOR: EVROL LLC
WELL NAME & NUMBER: KELLY SWD # 1
PERMIT NUMBER: NEW WELL, SWIW # 37
LOCATION: 130' WL & 300' NL of LOT 98, ATWATER Twp., PORTAGE County
PROPOSED INJECTION ZONE: NEWBURG DOLOMITE
DATE RECEIVED: MAY 1, 2012

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.

Proof Sheet

APPL NUMBER	aPATT020601	URBANIZED AREA ? <input type="checkbox"/>
OWNER NUMBER	8931	NAME
OWNER NAME	EVROL LLC	
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	KELLY	DISPOSAL PLAN 5
WELL NUMBER	1	MP Check # 0
PREV/PROPOSED TD	4300	
DRILL UNIT ACRES	0	
TYPE OF TOOL	RTAF	PROPOSED FORMATIONS
WELL CLASS	S W W	NEWBURG DOLOMITE
FIRE PHONE	() - 911	
MEDICAL PHONE	() - 911	
COUNTY CODE	133	
COUNTY NAME	PORTAGE	
COAL (Y=-1/N=0)	-1	
CIVIL TOWNSHIP	ATWATER	TARG CIVIL TWP
SURF QUAD	ATWATER	TARG QUAD
Nad 27 SURF ORIG X	2,367,880	Nad 27 TARG ORIG X
Nad 27 SURF ORIG Y	500,280	Nad 27 TARG ORIG Y
GROUND ELEVATION	1132	TARG ELEV 0
SURF SEC		TARG SECTION
SURF LOT	98	TARG LOT
SURF QTR TWP		TARG QTR TWP
SURF ALLOT		TARG ALLOT
SURF TRACT		TARG TRACT
SURF FRACTION		TARG FRACTION

OPERATOR Ben Kelly

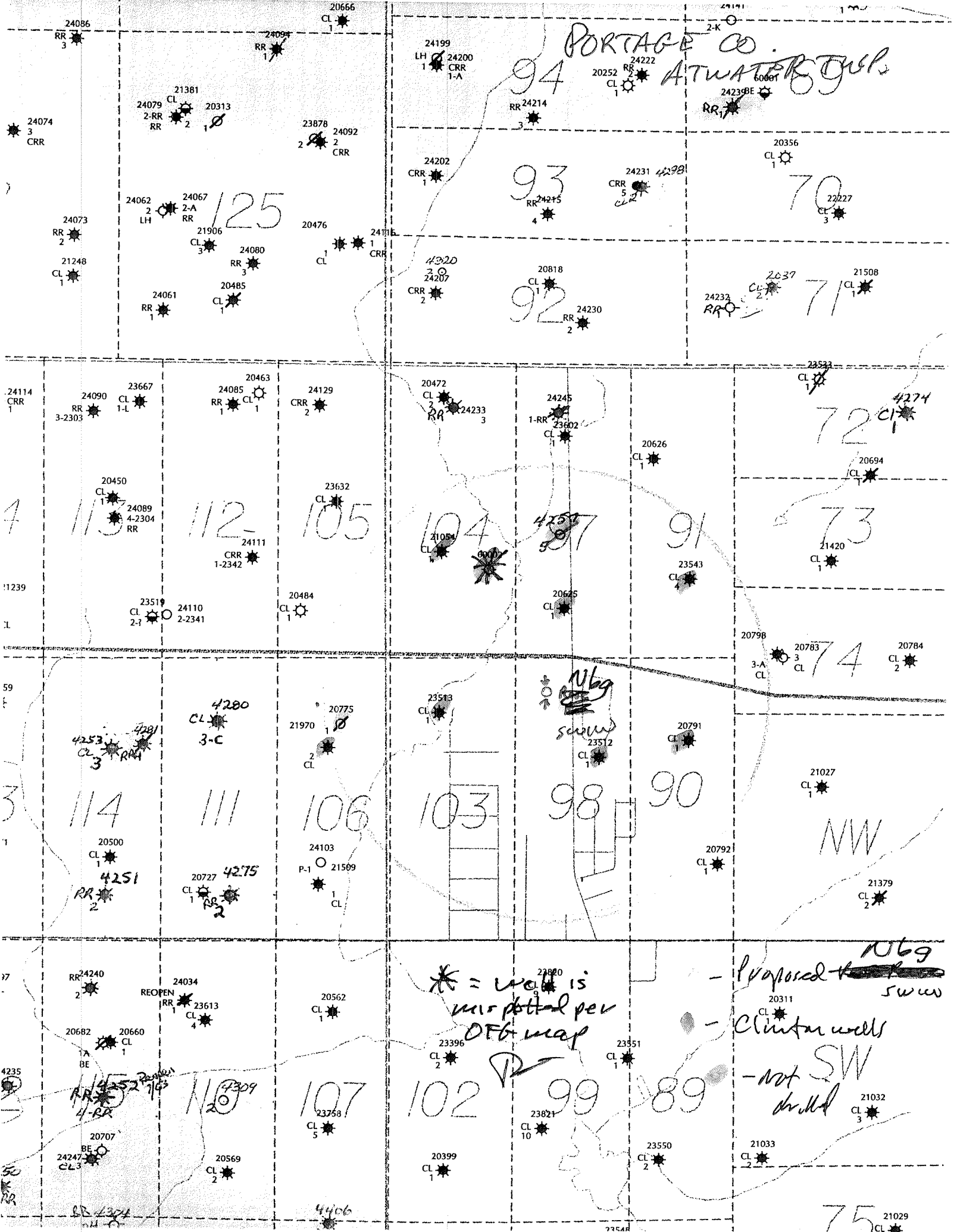
COUNTY Portage

TOWNSHIP Atwater

P & A	Permit Number	Casing/Cement Program	Well Log and/or Method of Plug
<input type="checkbox"/> Atwater ^{Newburg} FM	New well		
<input type="checkbox"/> CL	775	Not drilled	Expired 7/18/76
<input type="checkbox"/> CL	60002	Clinton well?	Not spotted correctly on DOGRM map. OFG map shows well out of 1/2 mile AOR.
<input type="checkbox"/> Atwater ^{Rose}	4257	Not drilled	
<input type="checkbox"/> CL	1054	Clinton well 8 5/8" - 530' - Cemented w/ 235 SKS 4 1/2" - 4803' - Cemented w/ 140 SKS - Calc fill up = 725'	TOC = 4078'
<input type="checkbox"/> CL	3513	Clinton well 8 5/8" - 589' - Cemented to surface 4 1/2" - 4806' cemented with 140 sacks	Calculated fillup = 725. TOC = 4081'
<input type="checkbox"/> CL	1970	Clinton well 8 5/8" - 425' cemented to surface 4 1/2" - 4750' cemented with 150 sacks	Calc fill up = 776' TOC = 3980'
<input type="checkbox"/> CL	3512	Clinton well 8 5/8" - 589' - Cemented to surface 4 1/2" - 4827' cemented with 140 sacks	Calc fillup - 725' TOC = 4102'
<input type="checkbox"/> CL	791	Clinton well 8 5/8" - 560' - Cemented to surface 4 1/2" - 4854' - Cemented w/ 140 SKS - Calc fill up = 725'	TOC = 4129'
<input type="checkbox"/> CL	3543	Clinton well 8 5/8" - 590' - Cemented with 235 SKS - Calc fillup - returned to surface 4 1/2" - 4857' - Cemented with 200 SKS - Calc fillup = 1036'	TOC = 3821'
<input type="checkbox"/> CL	625	Clinton well 8 5/8" - 567' - Cemented with 200 SKS - calc fill up = 928' - Returned to surface	

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

PORTAGE CO. ATWATER TWP.



* = well is
mis plotted per
DfG map

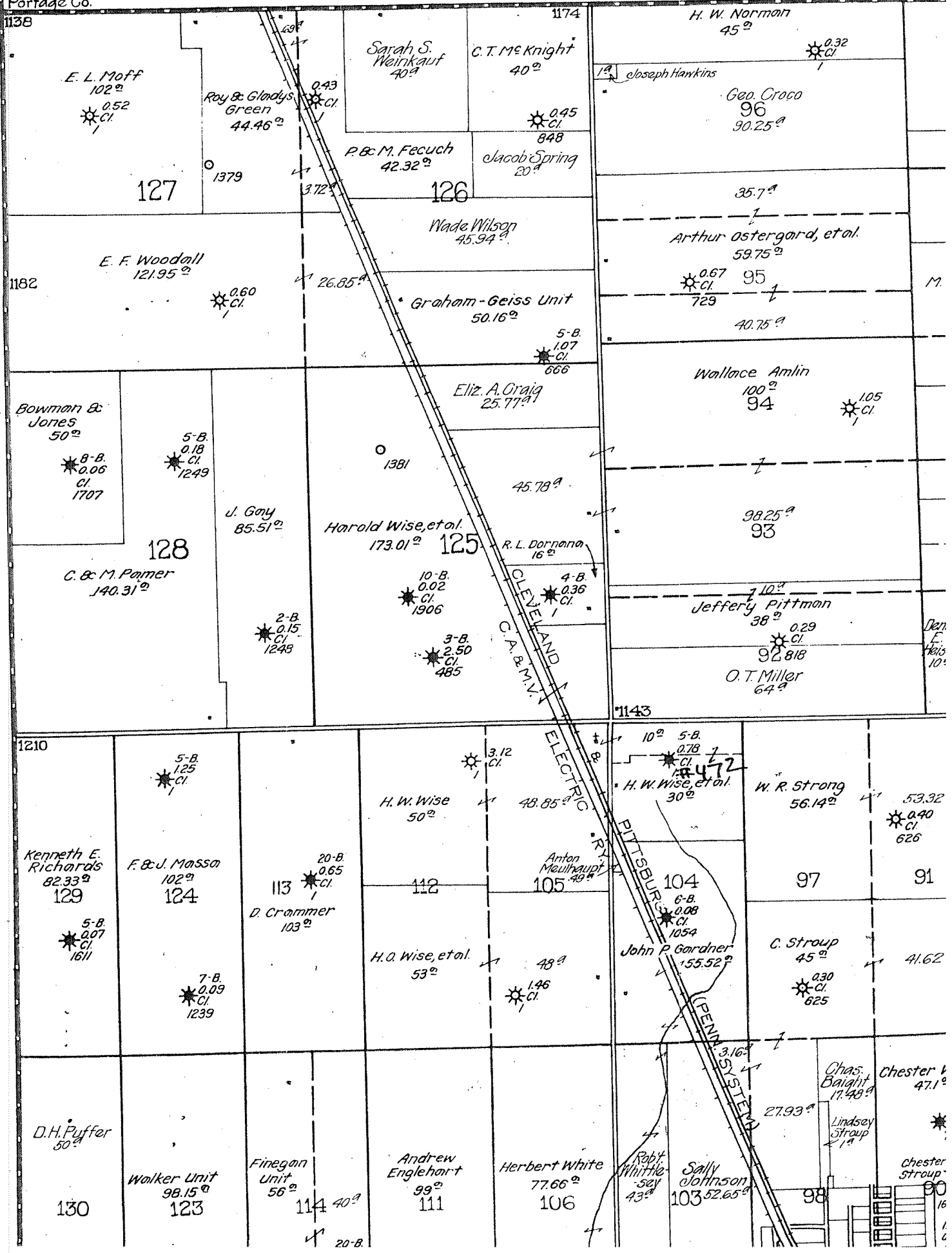
1069
- Proposed to
sw
- Clinton wells
- not SW
drilled

24086 RR 3
24074 3 CRR
24073 RR 2
21248 CL 1
24061 RR 1
24114 CRR 1
24090 RR 3-2303
20450 CL 1
24089 4-2304 RR
23519 CL 2-1
20500 CL 1
4251 RR 2
24240 RR 2
20682 TA BE
4235
20707 BE
24247 CL 3
24079 2-RR RR
24062 2 LH
24067 2-A RR
21906 CL 3
24080 RR 3
20485 CL 1
20666 CL 1
24094 RR 1
23878 2
24092 2 CRR
24202 CRR 1
24076 CL 1
24111 1 CRR
24207 2 CRR
20818 CL 1
24230 RR 2
24199 LH 1
24200 CRR 1-A
20252 CL 1
24222 RR 2
24214 RR 3
24231 4298 CRR 5
20356 CL 1
22227 CL 3
24233 RR 2
21508 CL 1
23533 CL 1
4274
20626 CL 1
21054 CL 1
20645 CL 1
20798 3-A CL
20783 3 CL
20784 CL 2
23513 CL 1
20775 1
21970 2 CL
23513 CL 1
23512 CL 1
20791 CL 1
21027 CL 1
20792 CL 1
21379 CL 2
20562 CL 1
23396 CL 2
23351 CL 1
23821 CL 10
20399 CL 1
23550 CL 2
21033 CL 2
21029 CL 3
4406
23548

OFG MAP

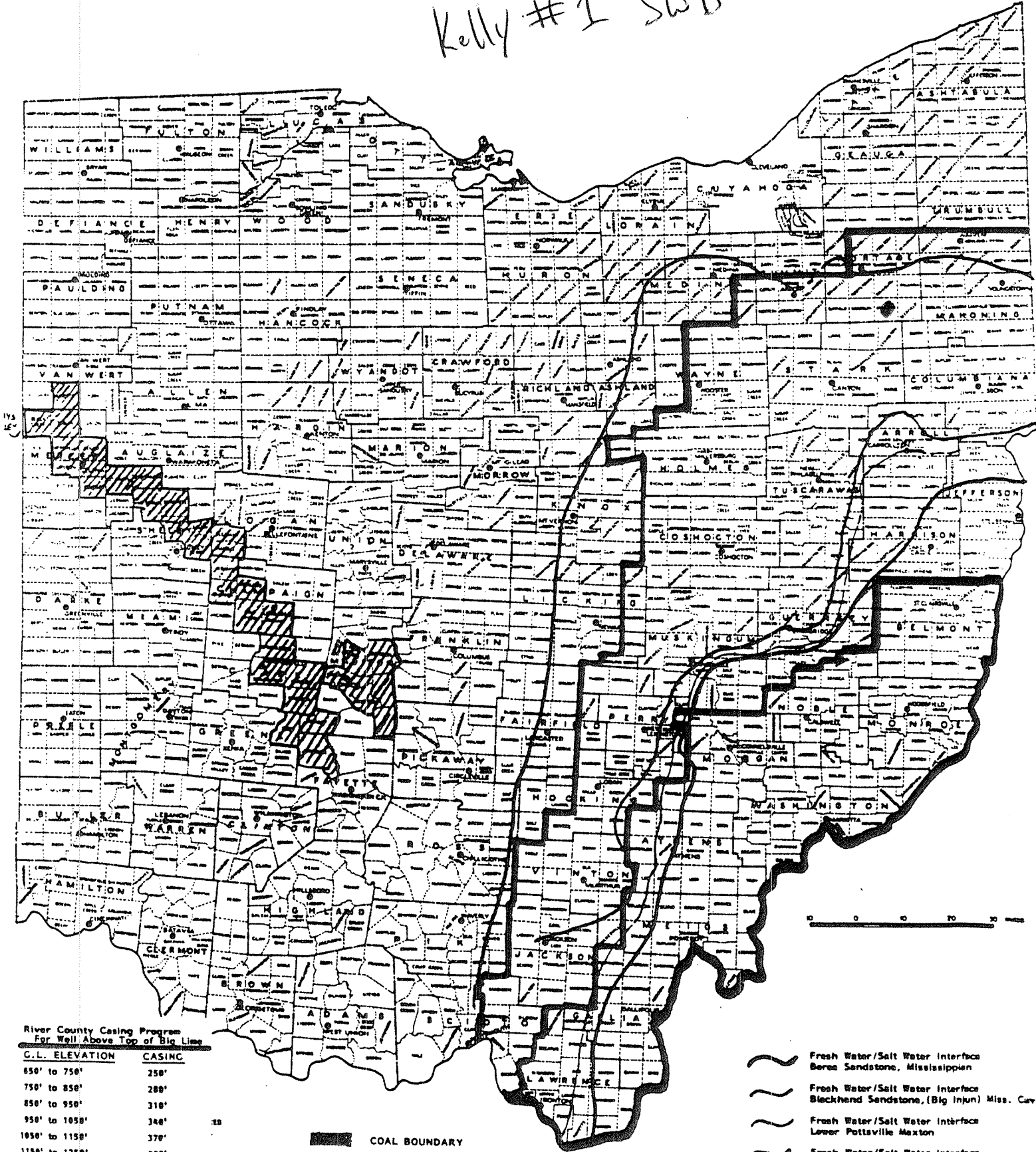
Portage Co. Atwater Tap.

NE Cor. Edinburg Tp. Portage Co.
SE Cor. Edinburg Tp. Portage Co.
SW Cor. Edinburg Tp. Portage Co.
NW Cor. Edinburg Tp. Portage Co.



Portage County, Attwater Twp.





Kelly #1 SWD



River County Casing Program
For Well Above Top of Big Lick

C.L. ELEVATION	CASING
650' 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'
OVER 1350'	500'

COAL BOUNDARY

-  Fresh Water/Salt Water Interface
Berea Sandstone, Mississippian
-  Fresh Water/Salt Water Interface
Bleckhard Sandstone, (Big Injun) Miss. Cov.
-  Fresh Water/Salt Water Interface
Lower Pottsville Maxton
-  Fresh Water/Salt Water Interface
Upper Allegheny 2nd Cow Run

Tomastik
June 19, 2012
Page 2 of 2

Attachment A is a summary of source water protection comments and two figures of the injection wells location in relation to public water systems. None of the proposed Class II injection wells are within one half mile of a public water system well or within a source water protection area. Note our review did not evaluate the location of private water system wells.

If you have any questions, please contact either Chuck Lowe or Craig Smith.

Attachments

cc: Chuck Lowe, DDAGW
Craig Smith, DDAGW

Attachment A

The Division of Drinking and Ground Waters has reviewed the UIC Class II injection well permits submitted for the Kelly Disposal Well (Evrol, LLC) and the Soinski #11, #21, #31 and #41 Wells (Hard Rock Drilling & Production, LLC) with regard to the following features within ½ mile:

Public water system wells and intakes;
Drinking water source protection areas for surface and ground water sources;
Federally-designated Sole Source Aquifers;
Unconsolidated aquifers capable of producing 100 or more gallons per minute;
Sand and gravel aquifers; and
Other glaciated areas covered by less than 25 feet of glacial material.

The following provide the results of this review:

Evrol (Kelly Disposal Well) (Evrol, LLC)

- No public water system wells or intakes are located within ½ mile of the proposed well location.
- No drinking water source protection area for a public water system using a ground water source extends to within ½ miles of the proposed well location.
- The proposed well location is within the corridor management zone determined for the City of Alliance's Dale Walborn Reservoir and Deer Creek Lake intakes. The corridor management zone for the intake extends 1,000 feet inland from the Mahoning River and 500 feet from each bank of tributary streams. The corridor management zone extends ten miles upstream of the intake. The project area is approximately 5.6 river miles upstream of the Dale Walborn Reservoir intake and 10 river miles upstream of the Deer Creek Lake intake. Based on the distance between the proposed well and the City of Alliance's intakes there is a very low probability that proper operation of a Class II injection well will impact Alliance's water quality.
- The proposed well location does not lie over a Federally-designated sole source aquifer.
- The well location is over the sand and gravel deposits of the Mahoning Buried Valley Aquifer.
- The well location does not lie over an unconsolidated aquifer capable of producing 100 or more gallons per minute or other glaciated areas covered by less than 25 feet of glacial material.

Soinski #11, Soinski #21, Soinski #31 & Soinski #41 (Hard Rock Drilling & Production, LLC):

- No public water system wells or intakes are located within ½ mile of the proposed well locations.
- No drinking water source protection area extends to within ½ miles of the proposed well locations.

- The proposed well locations do not lie over a Federally-designated sole source aquifer.
- The proposed well locations are over the sand and gravel deposits of the Mahoning Buried Valley Aquifer.
- The proposed well locations do not lie over an unconsolidated aquifer capable of producing 100 or more gallons per minute.
- Glacial deposits less than 25 feet thick, Alliance Thin Upland, are located within ½ mile of the proposed well locations.

The attached maps show the spatial relationships of these features to the Kelly Disposal Well and the Soinski #11, #21, #31 and #41 Wells and are provided for your files.

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

1138
 \$ 1,000.00

QPAHO 20601

SEE INSTRUCTIONS ON PAGE 2 (BACK)

1. I, We (applicant) <u>Evrol, LLC</u> 2. Owner #: <u>8931</u>	
(address) <u>957 Damon Drive Medina, OH 44256</u> Phone #: <u>(330) 242-0342</u>	
hereby apply this date <u>April 30,</u> , 20 <u>12</u> for a permit to:	
<input type="checkbox"/> Reissue (check appropriate blank)	<input type="checkbox"/> Revised Location
<input checked="" 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
	<input type="checkbox"/> Convert
	<input type="checkbox"/> Deepen
	<input type="checkbox"/> Reopen
	<input type="checkbox"/> Temporary Inactive
3. TYPE OF WELL: <input type="checkbox"/> Oil & Gas <input type="checkbox"/> 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: Mike Kelly Evrol, LLC 957 Damon Dr. Medina, OH 44256	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>Portage</u>	21. PROPOSED CASING PROGRAM: 13-3/8" casing to 800' 8-5/8" casing to 4,160' 4-1/2" tubing to 4,140' set on a packer
6. CIVIL TOWNSHIP: <u>Atwater</u>	
7. SECTION: _____ 8. LOT: <u>98</u>	
9. FRACTION: _____ 10. QTR TWP: _____	
11. TRACT / ALLOT: _____	
12. WELL #: <u>Evrol</u>	
13. LEASE NAME: <u>Evrol, LLC</u>	
14. PROPOSED TOTAL DEPTH: <u>4,300'</u>	
15. PROPOSED GEOLOGICAL FORMATION: <u>Newburg Dolomite</u>	
16. DRILLING UNIT IN ACRES (must be same as acres indicated on plat): _____	
22. FIRE AND MEDICAL DEPARTMENT TELEPHONE NUMBERS: (closest to well site) Fire: <u>911</u> Medical: <u>911</u>	
17. IF PERMITTED PREVIOUSLY: API #: _____ OWNER: _____ WELL #: _____ LEASE NAME: _____ TOTAL DEPTH: _____ GEOLOGICAL FORMATION: _____	23. MEANS OF INGRESS & EGRESS: Township Road: <u>Bank Street</u> County Road: _____ Municipal Road: _____ State Highway: _____
18. IF SURFACE RIGHTS ARE OWNED BY THE OHIO DEPARTMENT OF NATURAL RESOURCES Division Name: _____ Division Phone: _____	24. IS THE WELL LOCATION OR PRODUCTION FACILITIES WITHIN AN URBANIZED AREA AS DEFINED BY 1509.01(Y) ? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
19. LANDOWNER ROYALTY INTEREST: Is There An Attached List? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Name: <u>Evrol, LLC</u>	
Address: <u>957 Damon Drive Medina, OH 44256</u>	
Name: _____	
Address: _____	
Name: _____	
Address: _____	

MAY 01 2012

RECEIVED

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

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

Ohio Department of Natural Resources, Division of Oil and Gas 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: Newburg
Injection Interval: From: 4,160 ft. approx. feet to 4,300 ft. approx.
Geologic description of injection zone: Newburg Dolomite

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:

Conductor to 120'
13-3/8" surface casing to 800' cemented to surface.
8-5/8" production casing to 4,160 ft cemented to surface with class A cement.
4-1/2" tubing set on a packer at 4,140 ft.

B. Proposed method for testing the casing:

Standard 15 minute mechanical integrity test.

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

Open hole completion with hydraulic fracture stimulation.

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

Concrete unloading pad with drainage to sump. Eight 500 Bbl separation and storage tanks inside a diked containment area with a 40 mil plastic liner.

RECEIVED

MAY 01 2012

33. PROPOSED INJECTION VOLUMES

A. Indicate the estimated amount of saltwater to be injected into the proposed injection well per day:

AVERAGE: 1,500 Bbl/day (estimate) MAXIMUM: Unlimited

B. Indicate the method to be used to measure the actual amount of saltwater injected into the well:

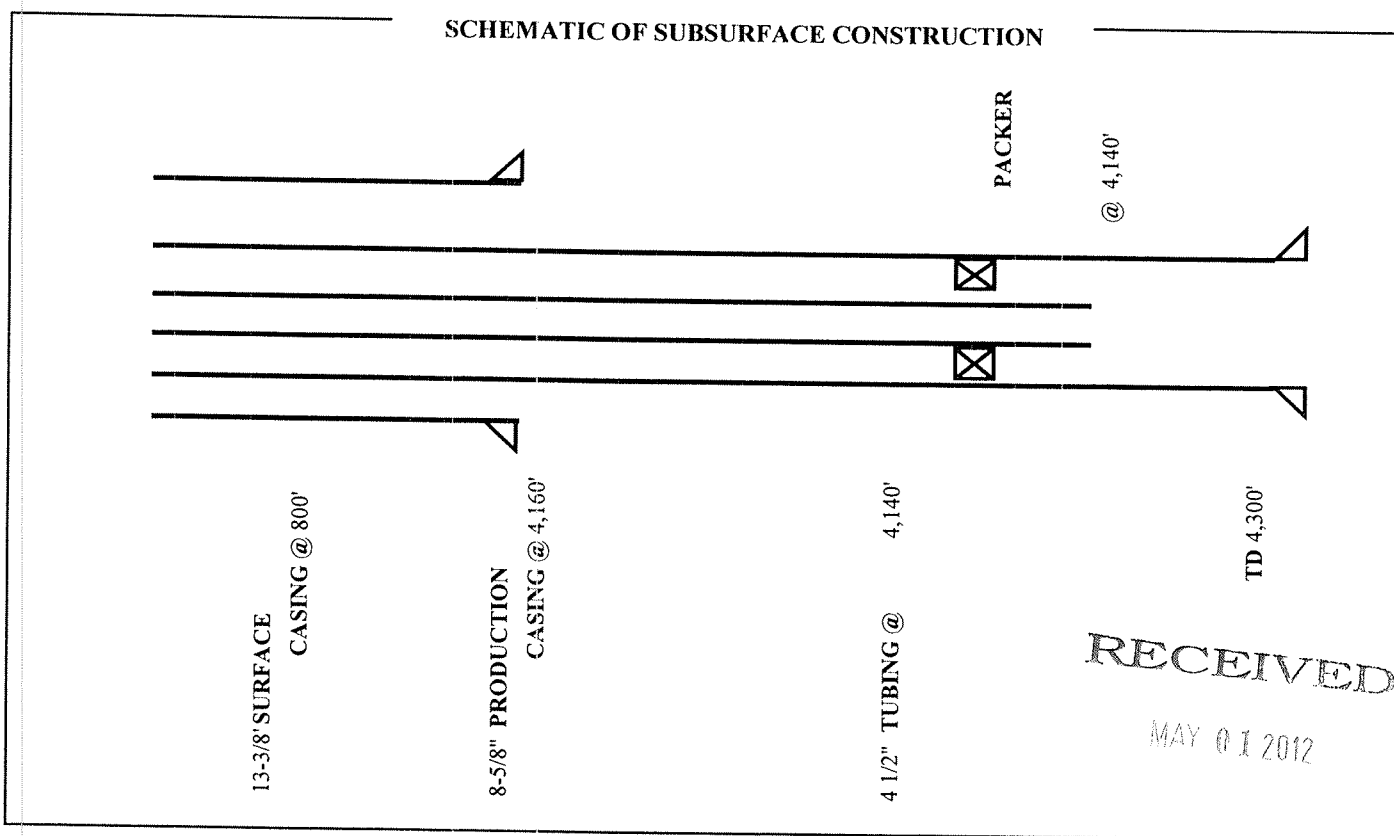
Barrel Counter

34. PROPOSED INJECTION PRESSURES

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

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

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



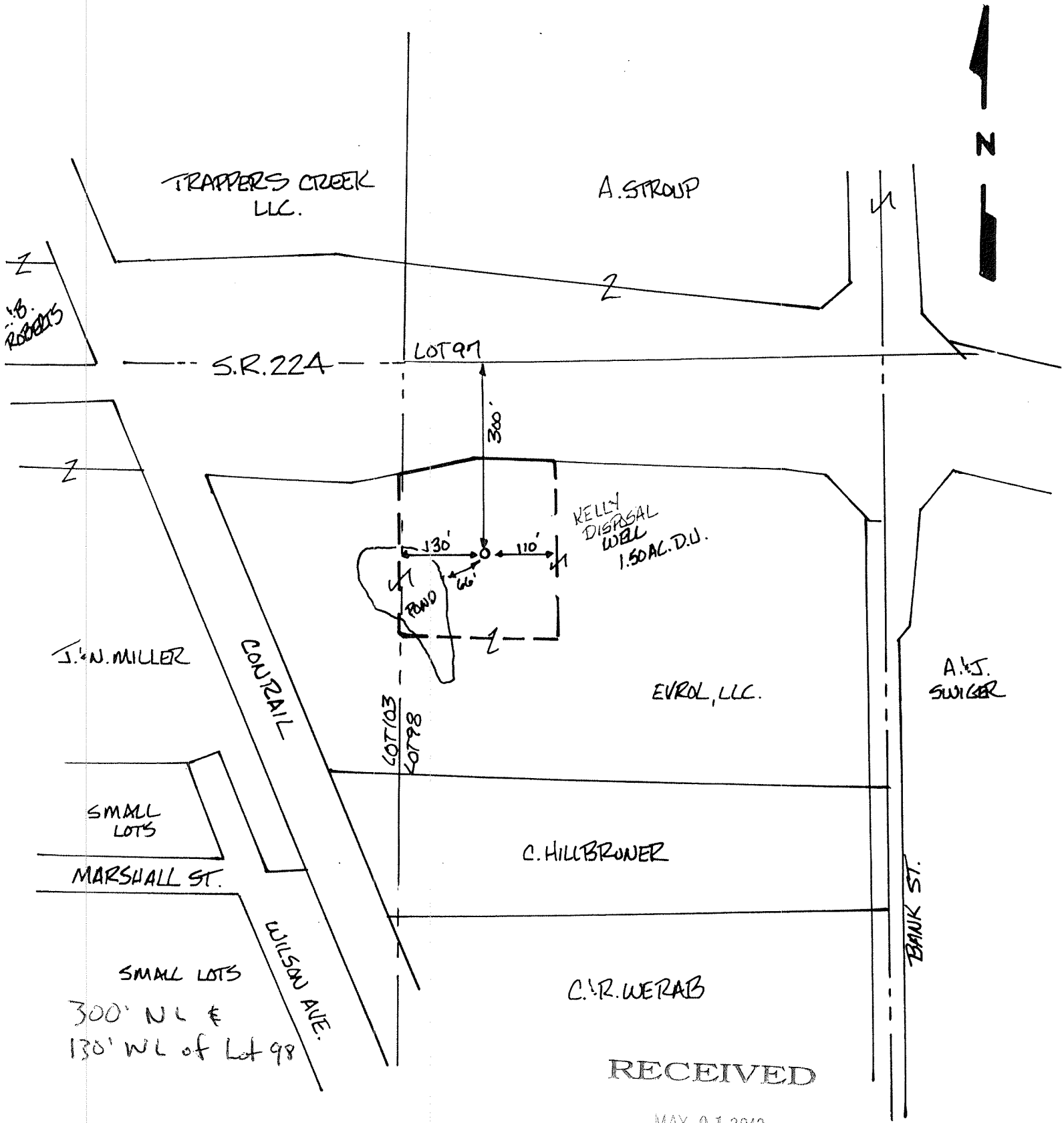
38. Public notice of an application for an enhanced recovery project is required by law. In addition, the applicant must submit, on an attached sheet, a list of the names and address of those persons required to receive personal notice in accordance with Rule 1501:9-5-05(E)(1), of the Ohio Administrative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

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

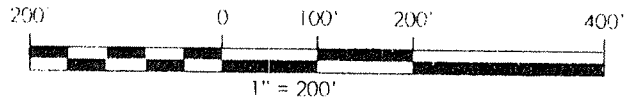
In addition, notice of all applications for enhanced recovery projects will be published in the Division's Weekly Circular.

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

Owner/Authorized Agent (Type or Print): Evrol LLC Michael D. Kelly



PLAT SHOWING PROPOSED LOCATION OF DISPOSAL WELL



RECEIVED
MAY 01 2012

OPERATOR	<u>EVROL LLC.</u>	TWP.	<u>1 N</u>
ADDRESS	<u>957 DAMON DRIVE MEDINA OH. 44256</u>	RANGE	<u>7 W</u>
<u>KELLY</u>	WELL NO. <u>1</u> ACRES <u>1.50</u>	SECTION	<u>LOT 98</u>
COUNTY <u>PORTAGE</u>	TWP. <u>ATWATER</u>	TRACT	

RESTORATION PLAN (Form 4)

Ohio Department of Natural Resources

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

<p>DATE OF APPLICATION: <u>April 30, 2102</u></p> <p>OWNER NAME, ADDRESS, & TELEPHONE NO.:</p> <p>Evrol, LLC 957 Damon Drive Medina, OH 44256 (330) 242-0342</p>	<p>3. API #:</p> <p>4. WELL #: <u>1</u></p> <p>5. LEASE NAME: <u>Evrol</u></p> <p>6. PROPERTY OWNER: <u>Evrol, LLC</u></p> <p>7. COUNTY: <u>Portage</u></p> <p>8. CIVIL TOWNSHIP: <u>Atwater</u></p> <p>9. SECTION: <u> </u> 10. LOT: <u>98</u></p>															
<p>11. CURRENT LAND USE:</p> <table style="width: 100%;"> <tr> <td><input type="checkbox"/> Cropland</td> <td><input 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 checked="" 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 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 checked="" 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 type="checkbox"/> Commercial															
<input type="checkbox"/> Pasture	<input type="checkbox"/> Idle Land															
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<input type="checkbox"/> Unreclaimed strip mine																
<input type="checkbox"/> Woodland: <input type="checkbox"/> Broadleaf <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% <input type="checkbox"/> greater than 24%</p> <p><input type="checkbox"/> 10.1 to 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 type="checkbox"/> Brush or bushes (2 to 6 ft.)</p> <p><input type="checkbox"/> Agricultural crops</p> <p><input checked="" 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 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>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 fluids 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 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>			
<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 checked="" 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 type="checkbox"/> Proposed alternative _____</td> <td></td> </tr> </table>	<input checked="" type="checkbox"/> Seeding plan	<input type="checkbox"/> Sod	<input type="checkbox"/> Agricultural crops	<input type="checkbox"/> Trees and/or Bushes	<input type="checkbox"/> Proposed alternative _____										
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<p>18. 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>24. PROPOSED OR CURRENT LENGTH OF ACCESS ROAD:</p> <p><input type="checkbox"/> 100 ft. or less <input type="checkbox"/> 101 to 500 ft.</p> <p><input checked="" type="checkbox"/> 501 to 1500 ft. <input type="checkbox"/> greater than 1500 ft.</p>															
<p>19. 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 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"/> Broadleaf <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"/> 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.**

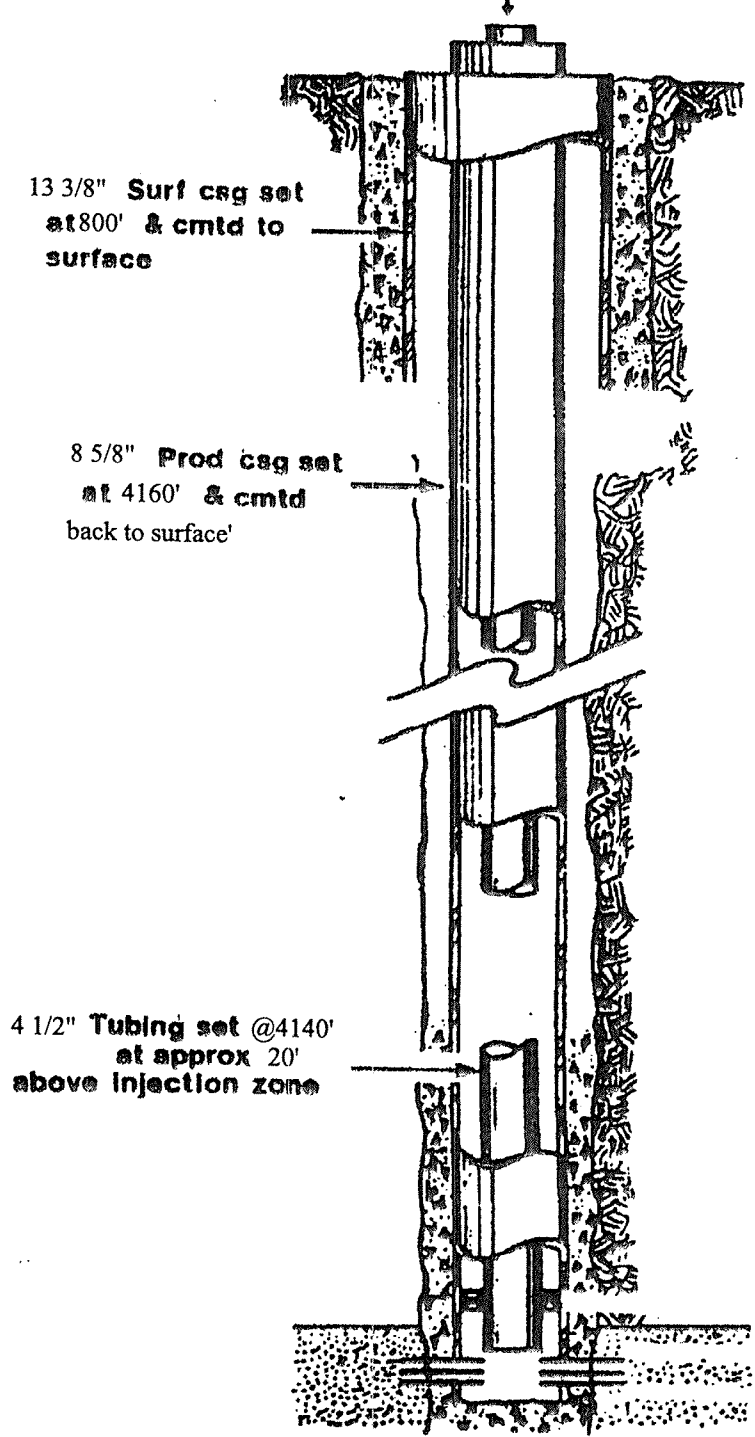
REQUIRED BY SECTION 1509.06 (A)(10), OHIO REVISED CODE -- FAILED TO SUBMIT MAY RESULT IN AN ASSESSMENT OF CRIMINAL FINES NOT LESS THAN \$100.00 NOR MORE THAN \$2,000.00 OR CIVIL PENALTIES NOT LESS THAN \$4,000.00.

Portage County, Atwater Twp., SWIW # 37
Kelly SWD # 1

**Subsurface Construction
For Injection Well**

Maximum Injection Pressure: 960 psi

Injection



**13 3/8" Surf csg set
at 800' & cmtd to
surface**

**8 5/8" Prod csg set
at 4160' & cmtd
back to surface'**

**4 1/2" Tubing set @4140'
at approx 20'
above injection zone**

**Newburg Dolomite
4160' - 4300'**

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

SEE INSTRUCTIONS ON PAGE 2 (BACK)

1. I, We (applicant) <u>Evrol, LLC</u>		2. Owner #: <u>8931</u>
(address) <u>957 Damon Drive Medina, OH 44256</u>		Phone #: <u>(330) 242-0342</u>
hereby apply this date <u>April 30,</u> , 20 <u>12</u> for a permit to:		
<input type="checkbox"/> Reissue (check appropriate blank)	<input type="checkbox"/> Revised Location	<input type="checkbox"/> Convert
<input checked="" type="checkbox"/> Drill New Well	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Deepen
<input type="checkbox"/> Drill Directionally	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Reopen
<input type="checkbox"/> Drill Horizontally	<input type="checkbox"/> Orphan Well Program	<input type="checkbox"/> Temporary Inactive
3. TYPE OF WELL:		
<input type="checkbox"/> Oil & Gas	<input type="checkbox"/> Annular Disposal	<input checked="" type="checkbox"/> Saltwater Injection
<input type="checkbox"/> Stratigraphic Test	<input type="checkbox"/> Gas Storage	<input type="checkbox"/> Other (explain): _____
<input type="checkbox"/> Solution Mining*	<input type="checkbox"/> Enhanced Recovery* (* if checked, select appropriate box below)	
<input type="checkbox"/> Input/Injection	<input type="checkbox"/> Water Supply	<input type="checkbox"/> Observation
		<input type="checkbox"/> Production/Extraction
4. MAIL PERMIT TO: Mike Kelly Evrol, LLC 957 Damon Dr. Medina, OH 44256		20. TYPE OF TOOLS:
		<input type="checkbox"/> Cable
		<input type="checkbox"/> Cable / Air Rotary
		<input type="checkbox"/> Cable / Fluid Rotary
		<input type="checkbox"/> Cable / Air / Fluid Rotary
		<input type="checkbox"/> Air Rotary
		<input checked="" type="checkbox"/> Air / Fluid Rotary
		<input type="checkbox"/> Fluid Rotary
		<input type="checkbox"/> Service Rig
5. COUNTY: <u>Portage</u>	21. PROPOSED CASING PROGRAM:	
6. CIVIL TOWNSHIP: <u>Atwater</u>	13-3/8" casing to 800'	
7. SECTION: _____ 8. LOT: <u>98</u>	8-5/8" casing to 4,160'	
9. FRACTION: _____ 10. QTR TWP: _____	4-1/2" tubing to 4,140' set on a packer	
11. TRACT / ALLOT: _____	22. FIRE AND MEDICAL DEPARTMENT TELEPHONE NUMBERS: (closest to well site)	
12. WELL #: <u>Evrol</u>	Fire: <u>911</u>	
13. LEASE NAME: <u>Evrol, LLC</u>	Medical: <u>911</u>	
14. PROPOSED TOTAL DEPTH: <u>4,300'</u>	23. MEANS OF INGRESS & EGRESS:	
15. PROPOSED GEOLOGICAL FORMATION: <u>Newburg Dolomite</u>	Township Road: <u>Bank Street</u>	
16. DRILLING UNIT IN ACRES (must be same as acres indicated on plat): _____	County Road: _____	
17. IF PERMITTED PREVIOUSLY:	Municipal Road: _____	
API #: _____	State Highway: _____	
OWNER: _____	24. IS THE WELL LOCATION OR PRODUCTION FACILITIES WITHIN AN URBANIZED AREA AS DEFINED BY 1509.01(Y) ?	
WELL #: _____	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
LEASE NAME: _____		
TOTAL DEPTH: _____		
GEOLOGICAL FORMATION: _____		
18. IF SURFACE RIGHTS ARE OWNED BY THE OHIO DEPARTMENT OF NATURAL RESOURCES		
Division Name: _____		
Division Phone: _____		
19. LANDOWNER ROYALTY INTEREST:	RECEIVED	
Is There An Attached List? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	MAY 01 2012	
Name: <u>Evrol, LLC</u>		
Address: <u>957 Damon Drive Medina, OH 44256</u>		
Name: _____		
Address: _____		
Name: _____		
Address: _____		

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

I, the undersigned, further depose and state that I am the person who has the right to drill on the tract or drilling unit and to drill into and produce from a pool and to appropriate the oil or gas that I produce therefrom either for myself or others as described in this application. And furthermore, I the undersigned, being duly sworn, depose and state at this time that I am not liable for any final nonappealable order of a court for damage to streets, roads, highways, bridges, culverts, or drainage ways pursuant to Section 5577.12 of the Ohio Revised Code (ORC). I, the undersigned, further depose and state that all notices required by 1509.06 (A)(2) ORC have been given.

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

SEE INSTRUCTIONS ON PAGE 2 (BACK)

1. I, We (applicant) <u>Evrol, LLC</u>		2. Owner #: <u>8931</u>	
(address) <u>957 Damon Drive Medina, OH 44256</u>		Phone #: <u>(330) 242-0342</u>	
hereby apply this date <u>April 30,</u> , 20 <u>12</u> for a permit to:			
<input type="checkbox"/> Reissue (check appropriate blank)	<input type="checkbox"/> Revised Location	<input type="checkbox"/> Convert	
<input checked="" type="checkbox"/> Drill New Well	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Deepen	
<input type="checkbox"/> Drill Directionally	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Reopen	
<input type="checkbox"/> Drill Horizontally	<input type="checkbox"/> Orphan Well Program	<input type="checkbox"/> Temporary Inactive	
3. TYPE OF WELL:			
<input type="checkbox"/> Oil & Gas	<input type="checkbox"/> Annular Disposal	<input checked="" type="checkbox"/> Saltwater Injection	
<input type="checkbox"/> Stratigraphic Test	<input type="checkbox"/> Gas Storage	<input type="checkbox"/> Other (explain): _____	
<input type="checkbox"/> Solution Mining*	<input type="checkbox"/> Enhanced Recovery* (* if checked, select appropriate box below)		
<input type="checkbox"/> Input/Injection	<input type="checkbox"/> Water Supply	<input type="checkbox"/> Observation	<input type="checkbox"/> Production/Extraction
4. MAIL PERMIT TO: Mike Kelly Evrol, LLC 957 Damon Dr. Medina, OH 44256		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>Portage</u>	21. PROPOSED CASING PROGRAM:		
6. CIVIL TOWNSHIP: <u>Atwater</u>	13-3/8" casing to 800'		
7. SECTION: _____ 8. LOT: <u>98</u>	8-5/8" casing to 4,160'		
9. FRACTION: _____ 10. QTR TWP: _____	4-1/2" tubing to 4,140' set on a packer		
11. TRACT / ALLOT: _____	22. FIRE AND MEDICAL DEPARTMENT TELEPHONE		
12. WELL #: <u>Evrol</u>	NUMBERS: (closest to well site)		
13. LEASE NAME: <u>Evrol, LLC</u>	Fire: <u>911</u>		
14. PROPOSED TOTAL DEPTH: <u>4,300'</u>	Medical: <u>911</u>		
15. PROPOSED GEOLOGICAL FORMATION: <u>Newburg Dolomite</u>	23. MEANS OF INGRESS & EGRESS:		
16. DRILLING UNIT IN ACRES (must be same as acres indicated on plat): _____	Township Road: <u>Bank Street</u>		
17. IF PERMITTED PREVIOUSLY:	County Road: _____		
API #: _____	Municipal Road: _____		
OWNER: _____	State Highway: _____		
WELL #: _____	24. IS THE WELL LOCATION OR PRODUCTION FACILITIES		
LEASE NAME: _____	WITHIN AN URBANIZED AREA AS DEFINED BY 1509.01(Y) ?		
TOTAL DEPTH: _____	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
GEOLOGICAL FORMATION: _____			
18. IF SURFACE RIGHTS ARE OWNED BY THE OHIO DEPARTMENT OF NATURAL RESOURCES			
Division Name: _____			
Division Phone: _____			
19. LANDOWNER ROYALTY INTEREST:			
Is There An Attached List? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Name: <u>Evrol, LLC</u>			
Address: <u>957 Damon Drive Medina, OH 44256</u>			
Name: _____			
Address: _____			
Name: _____			
Address: _____			

RECEIVED
MAY 01 2012

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

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

Ohio Department of Natural Resources, Division of Oil and Gas 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: Newburg
Injection Interval: From: 4,160 ft. approx. feet to 4,300 ft. approx.
Geologic description of injection zone: Newburg Dolomite

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:

Conductor to 120'
13-3/8" surface casing to 800' cemented to surface.
8-5/8" production casing to 4,160 ft cemented to surface with class A cement.
4-1/2" tubing set on a packer at 4,140 ft.

B. Proposed method for testing the casing:

Standard 15 minute mechanical integrity test.

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

Open hole completion with hydraulic fracture stimulation.

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

Concrete unloading pad with drainage to sump. Eight 500 Bbl separation and storage tanks inside a diked containment area with a 40 mil plastic liner.

RECEIVED

MAY 01 2012

33. PROPOSED INJECTION VOLUMES

A. Indicate the estimated amount of saltwater to be injected into the proposed injection well per day:

AVERAGE: 1,500 Bbl/day (estimate) MAXIMUM: Unlimited

B. Indicate the method to be used to measure the actual amount of saltwater injected into the well:

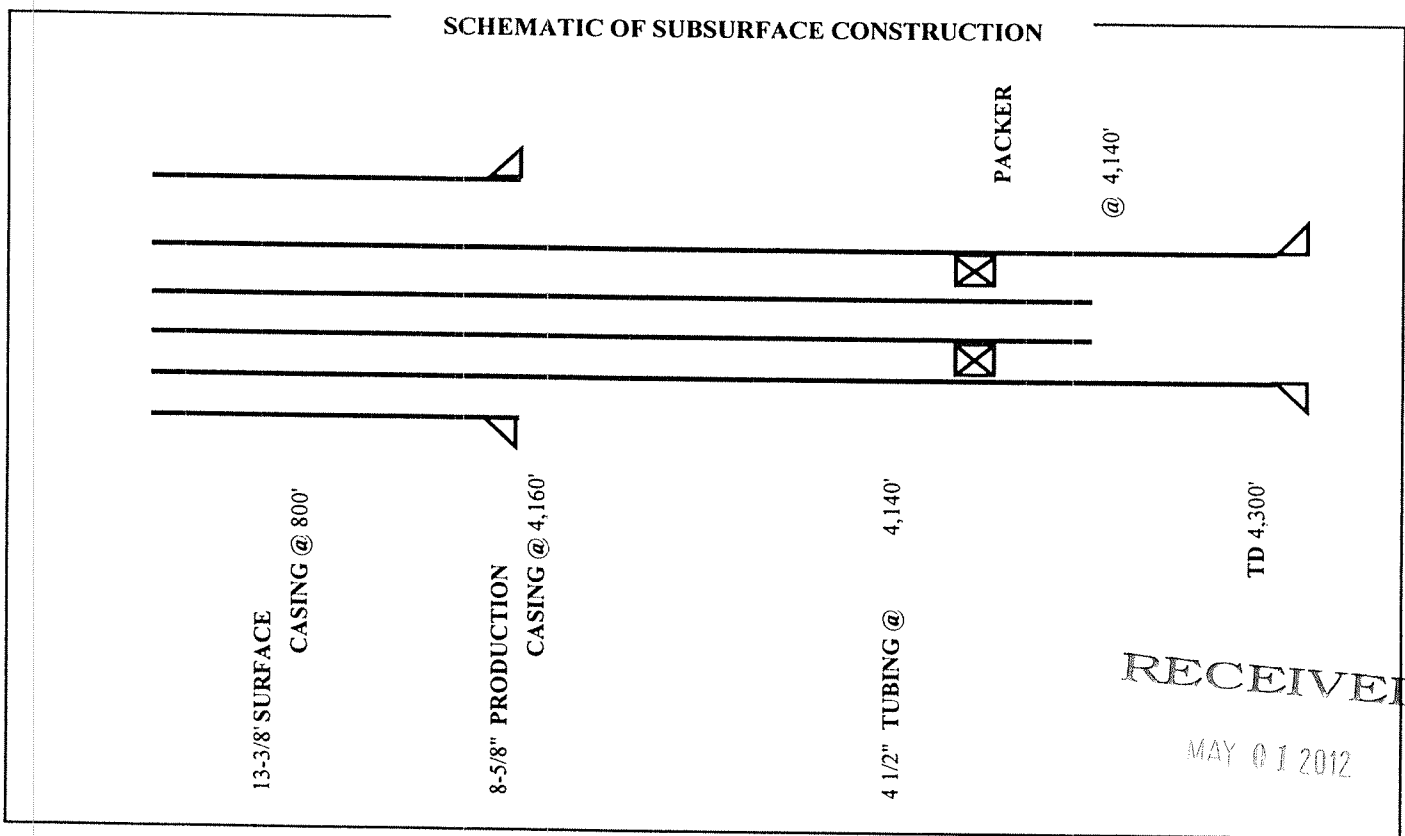
Barrel Counter

34. PROPOSED INJECTION PRESSURES

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

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

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



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

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

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

The undersigned hereby agrees to comply with all provisions for an enhanced recovery project as required by Chapter 1501:9-5 of the Ohio Administrative Code. In addition, the undersigned deposes 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):

Evrol LLC Michael D. Kelly

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

Ohio Department of Natural Resources, Division of Oil and Gas 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: Newburg
Injection Interval: From: 4,160 ft. approx. feet to 4,300 ft. approx.
Geologic description of injection zone: Newburg Dolomite

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:

Conductor to 120'
13-3/8" surface casing to 800' cemented to surface.
8-5/8" production casing to 4,160 ft cemented to surface with class A cement.
4-1/2" tubing set on a packer at 4,140 ft.

B. Proposed method for testing the casing:

Standard 15 minute mechanical integrity test.

C. Description of the proposed method for completion and operation of the injection well:
Open hole completion with hydraulic fracture stimulation.

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

Concrete unloading pad with drainage to sump. Eight 500 Bbl separation and storage tanks inside a diked containment area with a 40 mil plastic liner.

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MAY 01 2012

33. **PROPOSED INJECTION VOLUMES**

A. Indicate the estimated amount of saltwater to be injected into the proposed injection well per day:

AVERAGE: 1,500 Bbl/day (estimate) MAXIMUM: Unlimited

B. Indicate the method to be used to measure the actual amount of saltwater injected into the well:

Barrel Counter

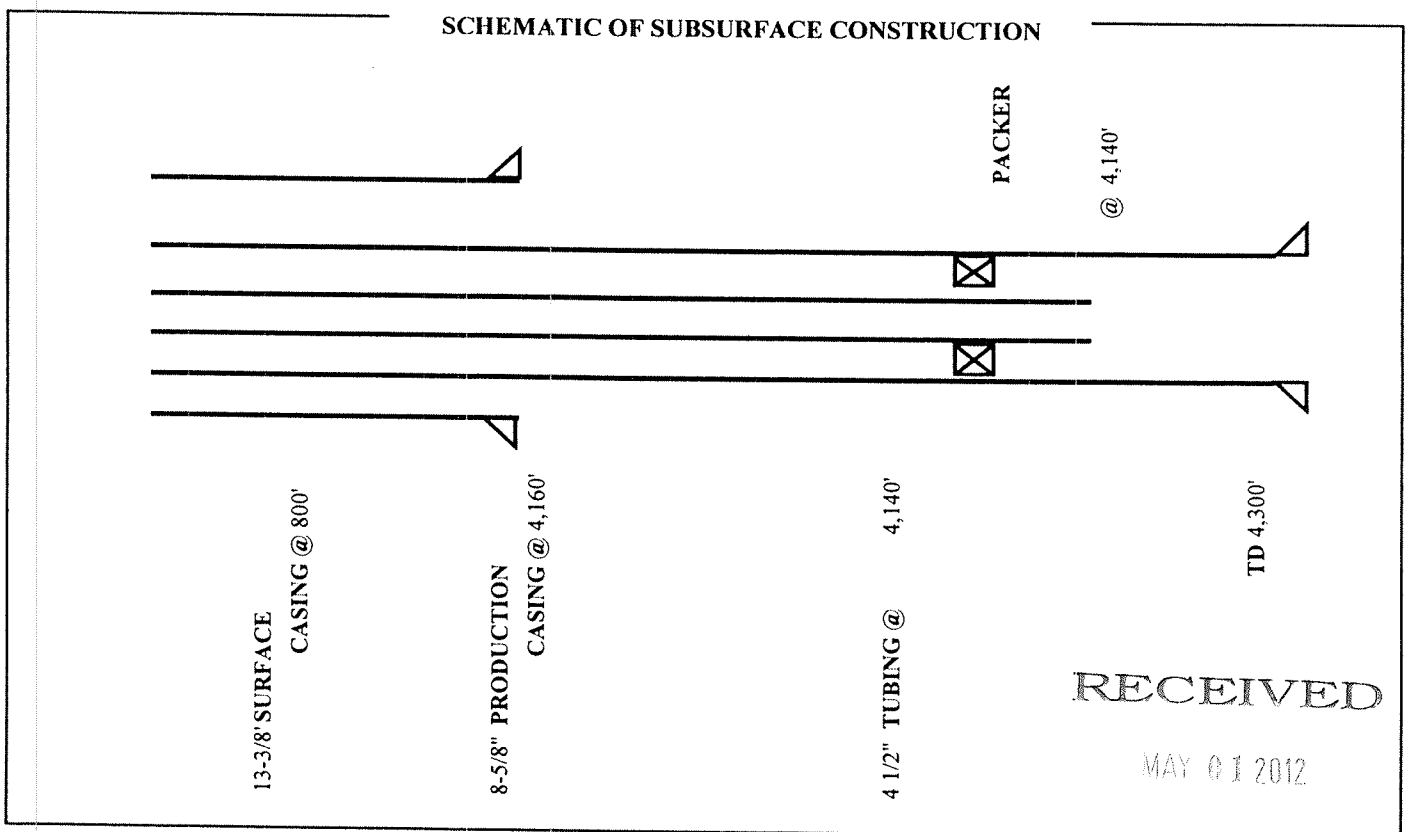
34. **PROPOSED INJECTION PRESSURES**

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

36. **MAP.** Each application for a permit shall be accompanied by a map or maps showing and containing the following information:

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

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



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

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

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

The undersigned hereby agrees to comply with all provisions for an enhanced recovery project as required by Chapter 1501:9-5 of the Ohio Administrative Code. In addition, the undersigned deposes 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):

Evrol LLC Michael D. Kelly

TRAPPERS CREEK
LLC.

A. STROUP

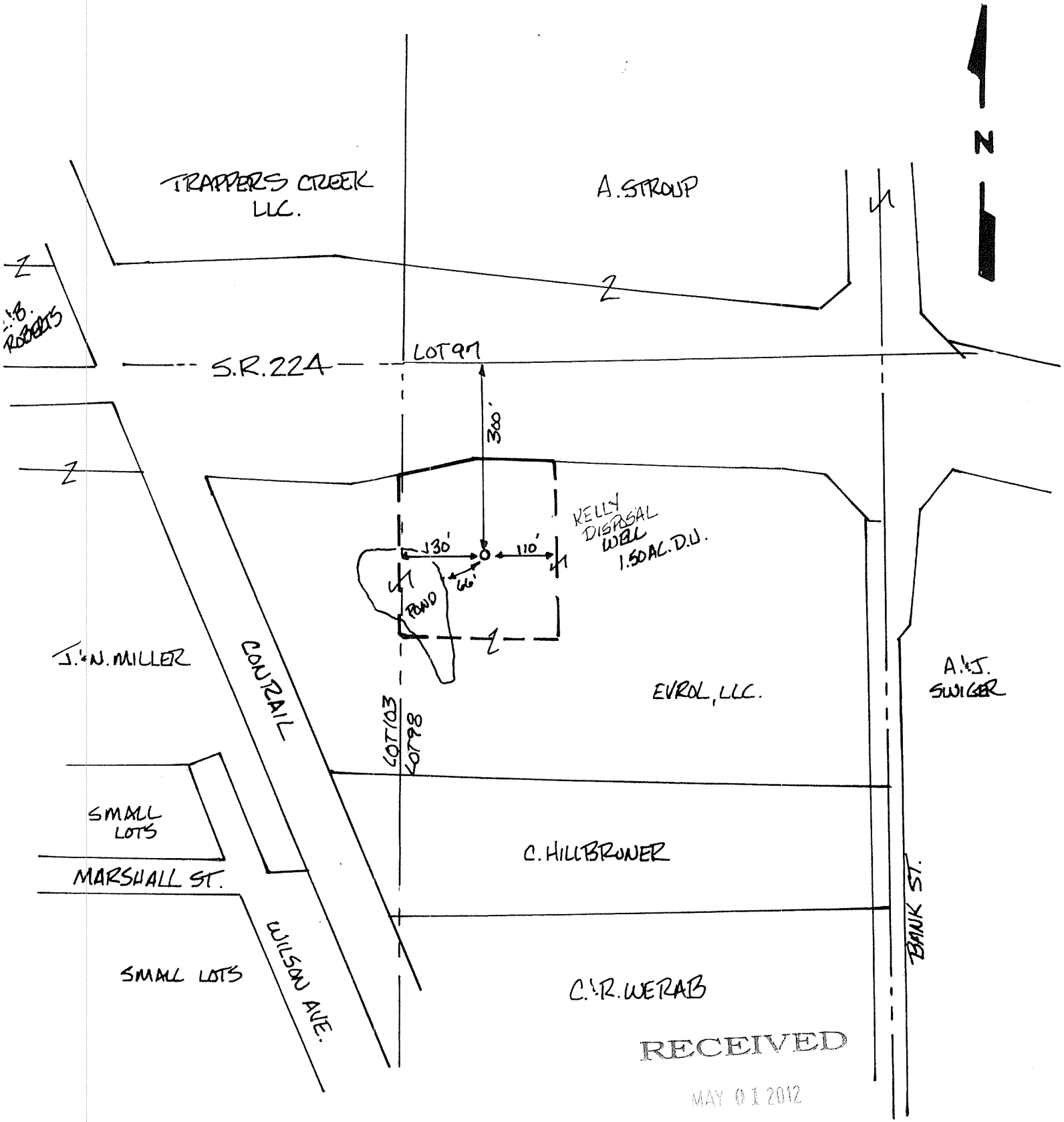
N

RESTORATION PLAN (Form 4)

Ohio Department of Natural Resources

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

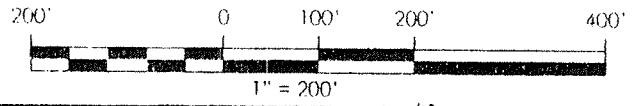
1. DATE OF APPLICATION: April 30, 2012		3. API #:	
2. OWNER NAME, ADDRESS, & TELEPHONE NO.: Evrol, LLC 957 Damon Drive Medina, OH 44256 (330) 242-0342		4. WELL #: 1	
		5. LEASE NAME: Evrol	
		6. PROPERTY OWNER: Evrol, LLC	
		7. COUNTY: Portage	
		8. CIVIL TOWNSHIP: Atwater	
		9. SECTION: 10. LOT: 98	
11. CURRENT LAND USE: <input type="checkbox"/> Cropland <input 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 checked="" type="checkbox"/> Industrial <input type="checkbox"/> Unreclaimed strip mine <input type="checkbox"/> Woodland: <input type="checkbox"/> Broadleaf <input type="checkbox"/> Needlelike		17. TYPE OF WELL: <input type="checkbox"/> Oil <input type="checkbox"/> Gas <input checked="" type="checkbox"/> Other	
12. SLOPE GRADIENT & LENGTH DETERMINED FROM: <input type="checkbox"/> Ground Measurement <input checked="" type="checkbox"/> U.S. Geological Survey Topographical Maps <input type="checkbox"/> Other: (explain) _____		18. STEEPEST SLOPE GRADIENT CROSSING SITE: <input checked="" type="checkbox"/> 0 to 2% <input type="checkbox"/> 2.1 to 8% <input type="checkbox"/> 8.1 to 10% <input type="checkbox"/> 10.1 to 24% <input type="checkbox"/> greater than 24%	
13. TYPE OF FALL VEGETAL COVER: <input type="checkbox"/> Little or no vegetal cover <input type="checkbox"/> Short grasses <input checked="" type="checkbox"/> Tall weeds or short brush (1 to 2 ft.) <input type="checkbox"/> Brush or bushes (2 to 6 ft.) <input type="checkbox"/> Agricultural crops <input checked="" type="checkbox"/> Trees with sparse low brush <input type="checkbox"/> Trees with dense low brush		19. LENGTH OF STEEPEST SLOPE CROSSING SITE: <input checked="" type="checkbox"/> 1 to 100 ft. <input type="checkbox"/> 101 to 200 ft. <input type="checkbox"/> 201 to 400 ft. <input type="checkbox"/> greater than 400 ft.	
14. SOIL & RESOILING MATERIAL AT WELLSITE: <input checked="" type="checkbox"/> Stockpile and protect topsoil to be used when preparing seedbed <input type="checkbox"/> Use of soil additives (e.g., lime, fertilizer) <input type="checkbox"/> No resoiling planned <input type="checkbox"/> Proposed alternative _____		20. RESTORATION OF DRILLING PITS: ** <input checked="" type="checkbox"/> Haul drilling fluids and fill pits <input type="checkbox"/> Use steel circulating tanks <input type="checkbox"/> Proposed alternative _____	
15. DISPOSAL PLAN FOR TREES AND TREE STUMPS: <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 _____		21. BACKFILLING AND GRADING AT SITE: <input type="checkbox"/> Construct diversions channeled to naturally established drainage systems <input type="checkbox"/> Construct terraces across slopes <input checked="" type="checkbox"/> Grade to approximate original contour <input type="checkbox"/> Grade to minimize erosion & control offsite runoff <input type="checkbox"/> Proposed alternative _____	
16. SURFACE AND SUBSURFACE DRAINAGE FACILITIES:		22. VEGETATIVE COVER TO BE ESTABLISHED AT SITE: <input checked="" type="checkbox"/> Seeding plan <input type="checkbox"/> Sod <input type="checkbox"/> Agricultural crops <input type="checkbox"/> Trees and/or Bushes <input type="checkbox"/> Proposed alternative _____	
		23. ADDITIONAL HOLES: <input checked="" type="checkbox"/> Rat/Mouse, if used, will be plugged	
		24. PROPOSED OR CURRENT LENGTH OF ACCESS ROAD: <input type="checkbox"/> 100 ft. or less <input type="checkbox"/> 101 to 500 ft. <input checked="" type="checkbox"/> 501 to 1500 ft. <input type="checkbox"/> greater than 1500 ft.	
16. SURFACE AND SUBSURFACE DRAINAGE FACILITIES:		25. CURRENT LAND USE OF PATH OF ACCESS ROAD:	



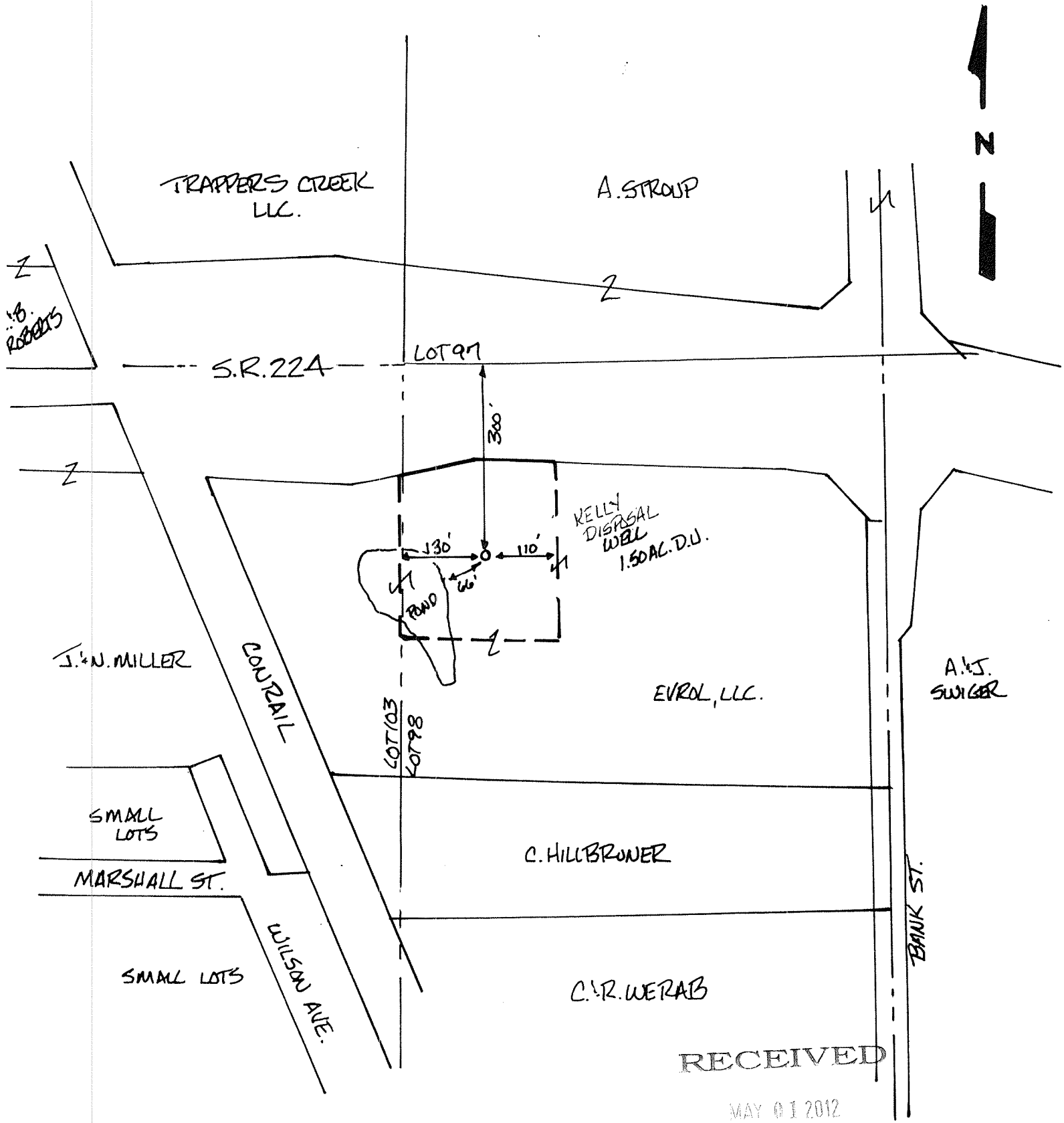
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MAY 01 2012

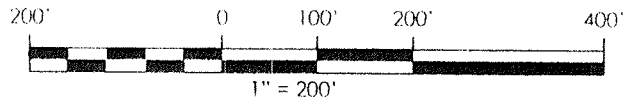
PLAT SHOWING PROPOSED LOCATION OF DISPOSAL WELL



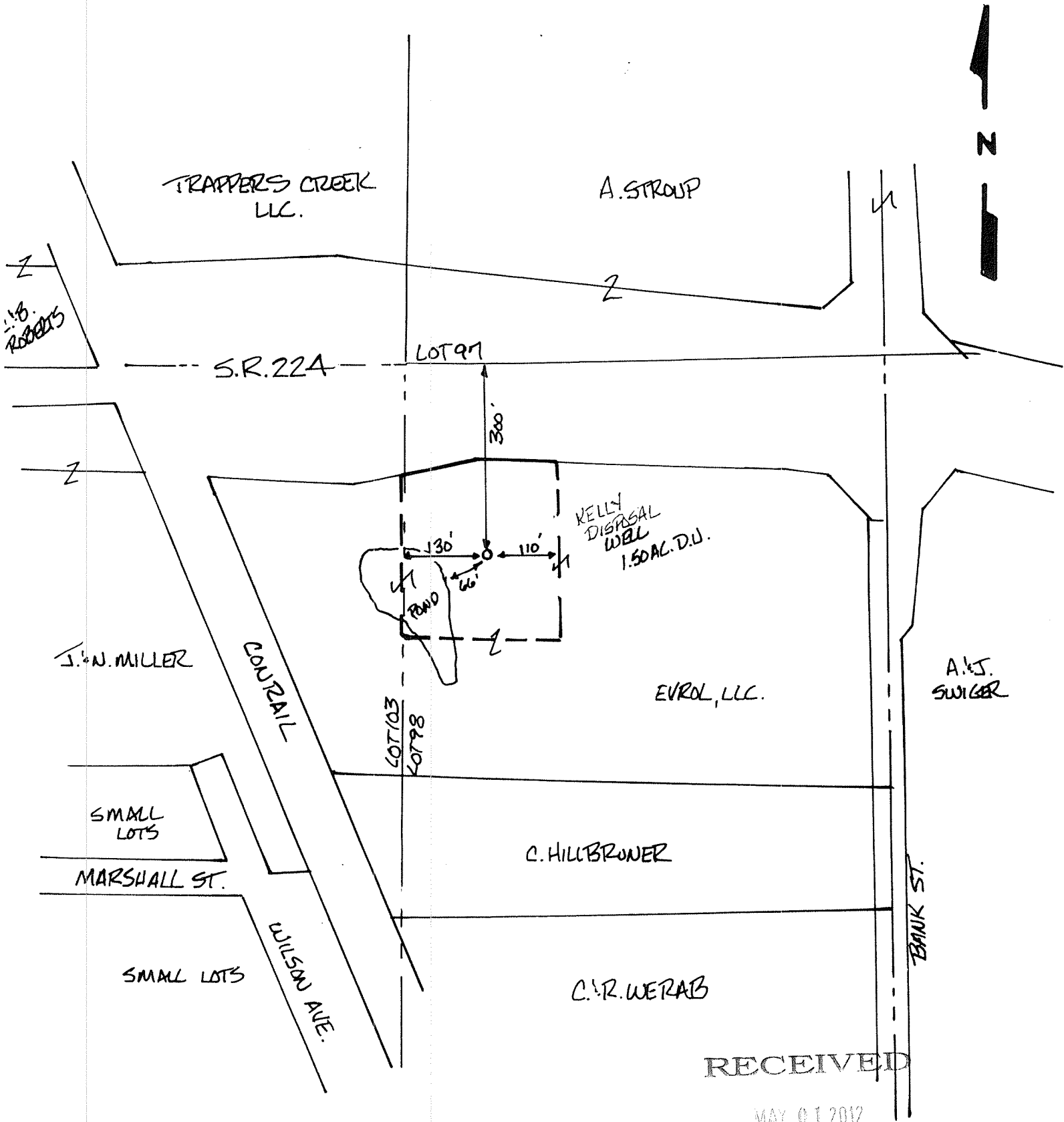
OPERATOR	<u>EVROL LLC.</u>	TWP.	<u>1 N</u>
ADDRESS	<u>957 DAMON DRIVE MEDINA OH. 44256</u>	RANGE	<u>7 W</u>
<u>KELLY</u>	WELL NO. <u>1</u> ACRES <u>1.50</u>	SECTION	<u>LOT 98</u>
COUNTY	<u>PORTAGE</u>	TWP.	<u>ATWATER</u>
QUAD	<u>ATWATER</u>	TRACT	<u>12 20 2011</u>



PLAT SHOWING PROPOSED LOCATION OF DISPOSAL WELL

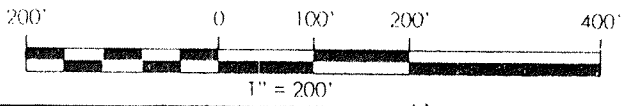


OPERATOR	<u>EVROL LLC.</u>	TWP.	<u>1 N</u>
ADDRESS	<u>957 DAMON DRIVE MEDINA OH. 44256</u>	RANGE	<u>7 W</u>
<u>KELLY</u>	WELL NO. <u>1</u> ACRES <u>1.50</u>	SECTION	<u>LOT 98</u>
COUNTY	<u>PORTAGE</u>	TWP.	<u>ATWATER</u>
QUAD	<u>ATWATER</u>		



RECEIVED
MAY 01 2012

PLAT SHOWING PROPOSED LOCATION OF DISPOSAL WELL



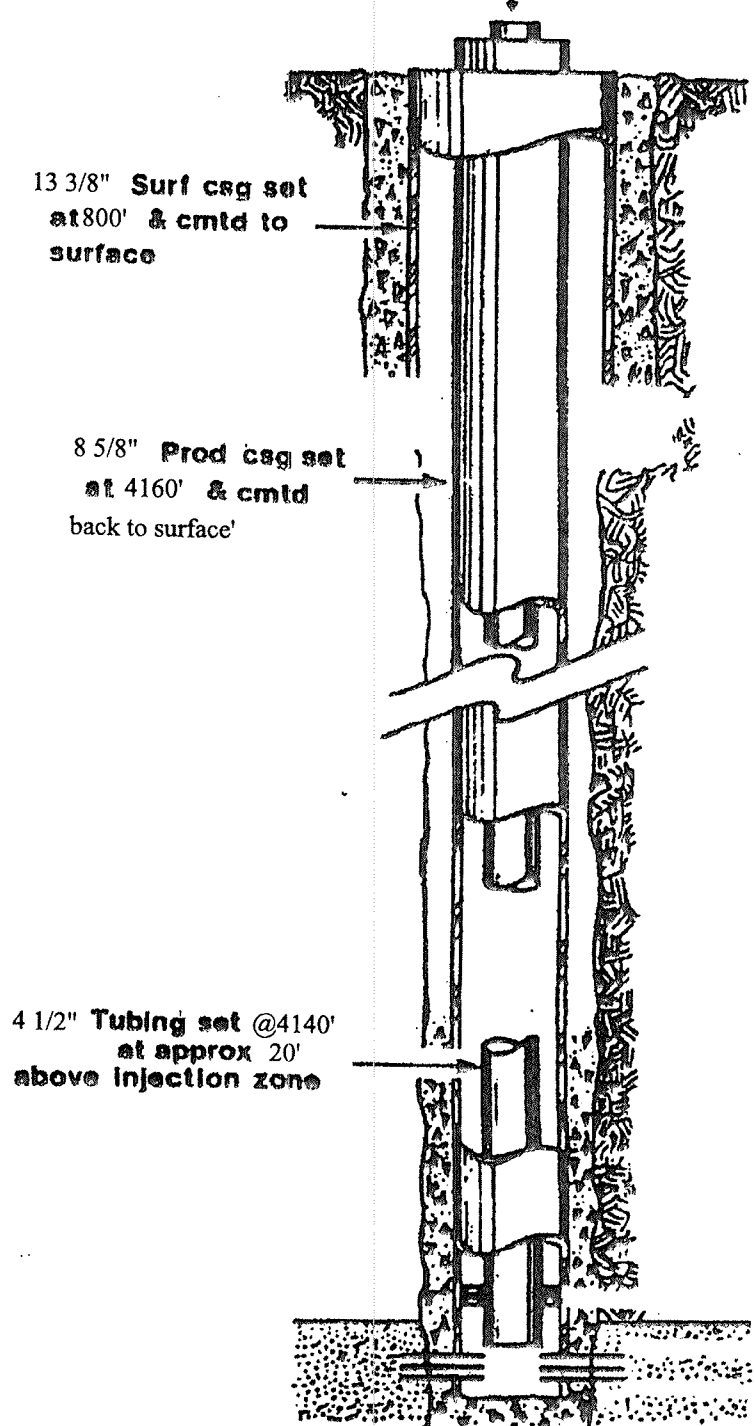
OPERATOR	<u>EVROL LLC.</u>	TWP.	<u>1 N</u>
ADDRESS	<u>951 DAMON DRIVE MEDINA OH 44256</u>	RANGE	<u>7 W</u>
<u>KELLY</u>	WELL NO. <u>1</u> ACRES <u>1.50</u>	SECTION	<u>LOT 98</u>
COUNTY	<u>PORTAGE</u>	TWP.	<u>ATWATER</u>
QUAD	<u>ATWATER</u>	TRACT	<u>12 20 2011</u>

Portage County, Atwater Twp., SWIW # 37
Kelly SWD # 1

**Subsurface Construction
For Injection Well**

Maximum Injection Pressure: 960 psi

Injection
↓

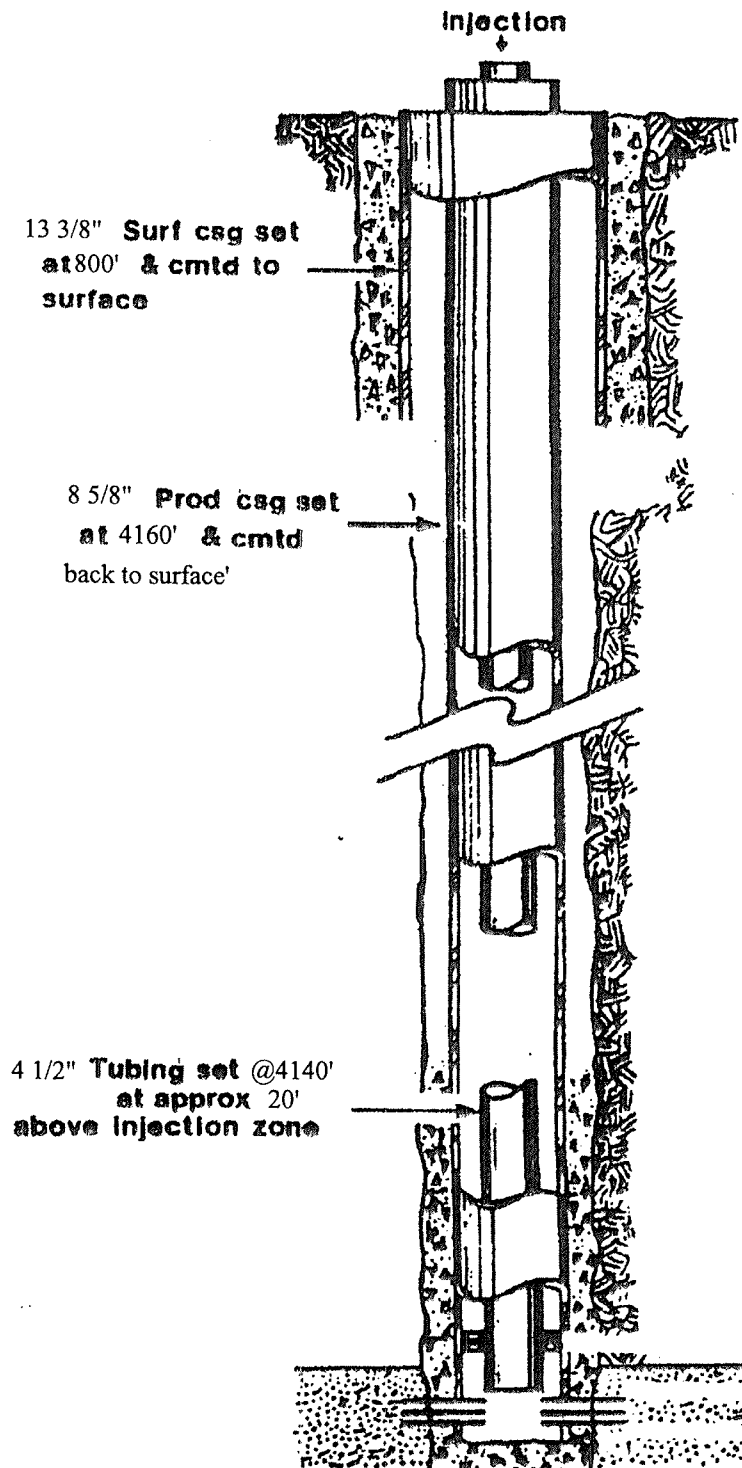


Newburg Dolomite
4160' - 4300'

Portage County, Atwater Twp., SWIW # 37
Kelly SWD # 1

**Subsurface Construction
For Injection Well**

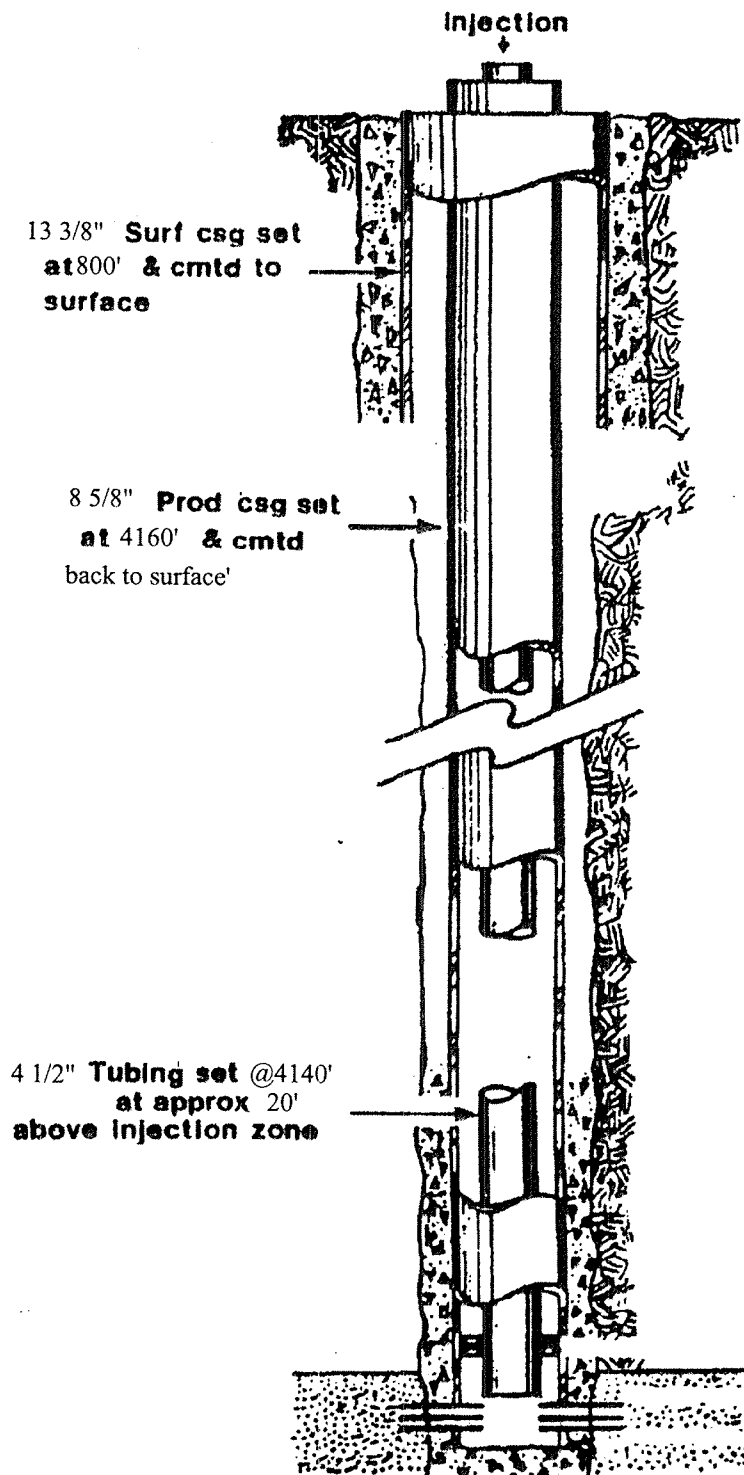
Maximum Injection Pressure: 960 psi



Portage County, Atwater Twp., SWIW # 37
Kelly SWD # 1

**Subsurface Construction
For Injection Well**

Maximum Injection Pressure: 960 psi



To: Tom Tomastik; Division of Oil & Gas Resource Management (DOGRM)

From: Chris Perry; Energy Resources Group, Ohio Division of Geological Survey (ODGS) 

Date: June 11, 2012

Subject: ODGS Delivery of Permit Reviews for Four Class II Injection Well Permit Applications – aAmy0000908; aAmy0000909; aAmy0000910; and aAmy0000911

The Ohio Division of Geological Survey (ODGS) has completed permit reviews for the four subject Class II injection well applications cited above. Accompanying this memo are our hardcopy findings and associated maps for each of these four applications. Based on these efforts, we conclude that the proposed locations and injection intervals for all four prospective injection wells appear to lack significant geological issues that would create unfavorable impacts due to their injection operation. Consequently, ODGS has no concerns regarding the approval of these permits.

There was a fifth permit ODGS was asked to review as a part of this request, aPATT020601. However, because ODGS determined that there was an error with the location for this application, we are awaiting receipt of the corrected location from DOGRM before we are able to complete the review for this proposed injection well.

With this memo, we are delivering our hardcopy review packages. We have also put the folders for these four review packages on your common drive: N:\DMRM\Oil&Gas\ClassII Permit Maps, so to provide you with both hardcopies and computer copies of our reviews.

Please contact us if you have any questions about these reviews and conclusions.

Thanks.

CC: Bob Worstall and Mac Swinford (memo only; via email)



Ohio Department of Natural Resources

JOHN R. KASICH, GOVERNOR

JAMES ZEHRINGER, DIRECTOR

March 13, 2012

Mr. Ben Kelly
3157 Ridgewood Road
Medina, Ohio 44256

RE: Proposed SWIW preliminary review, New well, Atwater Township, Portage County, Ohio

Dear Mr. Kelly:

Pursuant to your request, the Division of Oil and Gas 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 ½ mile radius) into the **Rose Run Sandstone**. An evaluation of the area of review indicates that injection into the **Rose Run Sandstone is feasible at volumes greater than 200 barrels per day**. If you are not registered as an owner/operator in Ohio, you will need to proceed with registration with the Division prior to filing an injection application.

The cost of the saltwater injection well permit is \$1000.00. Enclosed are the application forms for a saltwater injection well.

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

Sincerely,

A handwritten signature in cursive script, appearing to read "Tom Tomastik".

Tom Tomastik, Geologist 4
UIC Section
Division of Oil and Gas Resources Management
2045 Morse Road, H-3
Columbus, Ohio 43229-6693

Tomastik, Tom

From: Tomastik, Tom
Sent: Monday, March 12, 2012 7:55 AM
To: 'Ben Kelly'
Subject: RE: Area of Review - Rose Run disposal well in Atwater township, Portage county
Ben:

I finally got to your Preliminary Area of Review for drilling a new Rose Run well for disposal in Lot 98 of Atwater Twp. Portage County. The area of review looks fine for injection into the Rose Run at volumes greater than 200 barrels per day. Are you going to drill this as an oil and gas well first and then convert to injection? If you are going to drill it as an injection well, send me your mailing address so I can send you an application package.

Tom Tomastik, Geologist 4

Division of Oil and Gas Resources Management

2045 Morse Road, H-3

Columbus, Ohio 43229-6693

(614) 265-1032

From: Ben Kelly [mailto:bkelly1@gmail.com]
Sent: Thursday, March 08, 2012 8:50 PM
To: Tomastik, Tom
Subject: Re: Area of Review - Rose Run disposal well in Atwater township, Portage county

Thanks for the update Tom. I'm looking forward to the Youngstown report, it should be an interesting read.

On Thu, Mar 8, 2012 at 7:05 PM, Tomastik, Tom <Tom.Tomastik@dnr.state.oh.us> wrote:
Ben;

It has been a zoo! With the Youngstown report being released tomorrow, I am not getting much done. Still no permits being issued yet. May be next week.

Tom Tomastik, Geologist 4

Division of Oil and Gas Resources Management

2045 Morse Road, H-3

3/12/2012

Columbus, Ohio 43229-6693

03/12/2012

From: Ben Kelly [mailto:bkelly1@gmail.com]

Sent: Wednesday, March 07, 2012 2:09 PM

To: Tomastik, Tom

Subject: Re: Area of Review - Rose Run disposal well in Atwater township, Portage county

Hi Tom,

I was just wondering whether you'd had a chance to take a look at that AOR?

Thanks Tom. Call me if you need anything from me.

On Tue, Feb 28, 2012 at 12:18 PM, Tomastik, Tom <Tom.Tomastik@dmr.state.oh.us> wrote:
Ben:

Yes, let me get the AOR done first. At the latest, it should be early next week. I am backup on everything.

Tom Tomastik, Geologist 4
Division of Oil and Gas Resources Management
2045 Morse Road, H-3
Columbus, Ohio 43229-6693

03/12/2012

-----Original Message-----

From: Ben Kelly [mailto:bkelly1@gmail.com]

Sent: Tuesday, February 28, 2012 11:43 AM

To: Tomastik, Tom

Subject: Re: Area of Review - Rose Run disposal well in Atwater township, Portage county

Will the area of review process on our location in Atwater wait until the 15 applications have been processed? We were thinking it would be nice to get the AOR done prior to submitting our application. If the AOR will not be done until the 15 applications have been processed it

3/12/2012

may be better for us to go ahead and submit the application and get it in the queue.

We're just trying to decide how to proceed.

Thanks Tom.

On 2/28/12, Tomastik, Tom <Tom.Tomastik@dnr.state.oh.us> wrote:

> Ben:

>

> Not yet. No permits for injection wells have been allowed to be issued

> yet. I have 15 applications pending.

>

>

> Tom Tomastik, Geologist 4

>

> Division of Oil and Gas Resources Management

>

> 2045 Morse Road, H-3

>

> Columbus, Ohio 43229-6693

>

> tom.tomastik@dnr.state.oh.us

>

>

>

>

>

>

>

> From: Ben Kelly [mailto:bkelly12@gmail.com]

> Sent: Tuesday, February 28, 2012 6:43 AM

> To: Tomastik, Tom

> Subject: Area of Review - Rose Run disposal well in Atwater township,

> Portage county

>

>

> Hi Tom,

>

> I was just wondering whether you had a chance to take a look at the

> Rose Run location I had submitted a couple weeks ago.

>

>

> Just in case, here is the location.

>

> Northwest corner of lot 98 in Atwater Township, Portage County.

>

> The coordinates are:

>

> Latitude 41 degrees 01' 55.5" North
> Longitude 81 degrees 09' 59.23" West
>
>
> Thanks,
>
> Ben Kelly
>
>
> phone: (390) 242-2342 <tel:%28330%29%20242-2342>
>
> 3157 Ridgewood Rd.
> Medina, OH 44256
>

Tomastik, Tom

From: Ben Kelly [bkelly1@gmail.com]

Sent: Tuesday, February 28, 2012 6:43 AM

To: Tomastik, Tom

Subject: Area of Review - Rose Run disposal well in Atwater township, Portage county

Hi Tom,

I was just wondering whether you had a chance to take a look at the Rose Run location I had submitted a couple weeks ago.

Just in case, here is the location.

Northwest corner of lot 98 in Atwater Township, Portage County.

The coordinates are:

Latitude 41 degrees 01' 55.5" North
Longitude 81 degrees 09' 59.23" West

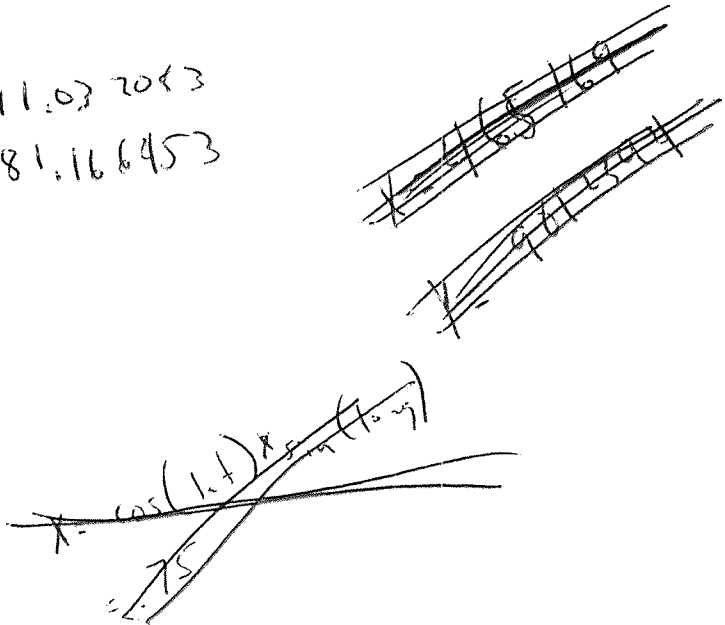
41.032013
81.166453

Thanks,

Ben Kelly

phone: 513.217.1100

3157 Ridgewood Rd.
Medina, OH 44256



CORPSCON

X: 2367849.609

Y: 500234.940



Ohio Department of Natural Resources

TED STRICKLAND, GOVERNOR

SEAN D. LOGAN, DIRECTOR

July 15, 2010

Mr. Ben Kelly
3157 Ridgewood Road
Medina, Ohio 44256

**RE: Proposed SWIW preliminary review, New well, Lot 98, Atwood Township,
Portage County, Ohio**

Dear Mr. Kelly:

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 ½ mile radius) into the **Newburg dolomite**. An evaluation of the area of review indicates that injection into the **Newburg dolomite** is feasible at volumes greater than 200 barrels per day. The cost of the saltwater injection well permit is \$1000.00. Enclosed is the application forms for a saltwater injection well.

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

Sincerely,

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



Division of Mineral Resources Management

Michael L. Sponsler, Chief
2045 Morse Road, Bldg. H-3
Columbus, Ohio 43229-6693

Telephone: (614) 265-6633 Fax: (614) 265-7999

In response to your request for saltwater injection well information, application procedures and forms are enclosed. Rules pertaining to saltwater injection wells are contained in Chapter 1501:9-03 of the Ohio Administrative Code, as amended June 19, 1989 (enclosed).

Before proceeding with the formal application process, you may request, in writing, that the Division perform preliminary review of the area in which your proposed saltwater injection well is to be located. This review could uncover any obvious problems that may prevent eventual approval of the formal application. Since the area of review is based on the volume of saltwater injected as an average per day, please indicate whether you will be using the well for volumes greater or less than 200 barrels per day. The area of review is $\frac{1}{4}$ mile radius from the proposed site for 200 barrels or less per day and $\frac{1}{2}$ mile radius from the proposed site for greater than 200 barrels of saltwater per day for yearly average.

The completed application forms must be submitted to the UIC Section, Division of Mineral Resources Management at 2045 Morse Road, Bldg. H-3, Columbus, Ohio 43229-6693, before proceeding with the public notification process. Within five days after submittal, the Division will determine if the application is complete and inform you if additional information is required, or advise you to proceed with public notification.

If you have any questions about the application process, feel free to contact me at (614) 265-1032.

Sincerely,



TOM TOMASTIK, Geologist
Technical Services Support Section, Bldg. H-3
Division of Mineral Resources Management
Columbus, OH 43229-6693

TT:cg

Tomastik, Tom

From: Ben Kelly [bkelly1@gmail.com]
Sent: Friday, May 04, 2012 9:50 AM
To: Tomastik, Tom
Subject: Re: Follow-up, disposal well proposed location and depth
Attachments: NewburgSWIWpermitletter.pdf

Tom,

A scanned copy of the letter that came with the application packet for a Newburg well back in 2010 is attached. I should have included it with the application we just filed.

Also, I was able to locate some of our email correspondence from that time where you had mentioned the issue with some of the Clinton wells (see below). We kept that in mind when putting the application together.

I did have one question. Despite the fact that permits are not being approved right now, will we still be proceeding with the notification process as would normally be the case?

Thanks,

Ben

On Wed, Jul 14, 2010 at 1:39 PM, Tomastik, Tom <Tom.Tomastik@dmr.state.nh.us> wrote:
Ben:

I have completed a preliminary area of review (AOR) for your proposed SWIW well location in the Newburg. You are able to drill this well for injection into the Newburg. Based upon the surrounding wells, you would need to perforate no higher than 4150 feet as some of the Clinton wells in the 1/2 mile AOR do not have enough cement on the backside of the production casing. I looked at Permit #3513 and the water zone in the Newburg occurred at 4200 feet, so you should be fine. Send me your mailing address and I will send out an approval letter and application package.

Thanks,
Tom

-----Original Message-----

From: Ben Kelly [mailto:bkelly1@gmail.com]
Sent: Wednesday, July 14, 2010 1:11 AM
To: Tomastik, Tom
Subject: Follow-up, disposal well proposed location and depth

Tom,

Following up on our phone call on Monday, you asked that I provide a proposed location and indication of the depth to the Newburg for the purposes of researching

5/7/2012

whether existing production wells were cemented in that interval.

The proposed location of the disposal well is in Portage county, Atwater township, approximately 400 feet south and 50-100 feet east of the northwest corner of Lot 98. I've attached an excel file with an image of the location.

If it helps, the geographic coordinates are approximately, Latitude: 41 degrees 1' 54.63" North and Longitude: 81 degrees 9' 59" West.

The address of the location is 1605 Bank Street, Atwater, OH 44201. It's an 11 acre property located at the north end of Lot 98.

The depth of the Newburg formation in that area is approximately 4,125-4,250 feet. I'm basing that on the depth of the Newburg in well #21076 which is a disposal well located about 4 miles to the north of our proposed location. The depth of the Clinton in well #21607 and wells adjacent to our proposed site are very close so I'm venturing a guess that the Newburg is located at about the same depth as well.

I hope this is adequate information to proceed on. If you have any questions please don't hesitate to call me at [\(330\) 242-2342](tel:330-242-2342).

Thank you,

Tomastik, Tom

From: Tomastik, Tom
Sent: Wednesday, July 14, 2010 1:40 PM
To: 'Ben Kelly'
Subject: RE: Follow-up, disposal well proposed location and depth

Ben:

I have completed a preliminary area of review (AOR) for your proposed SWIW well location in the Newburg. You are able to drill this well for injection into the Newburg. Based upon the surrounding wells, you would need to perforate no higher than 4150 feet as some of the Clinton wells in the 1/2 mile AOR do not have enough cement on the backside of the production casing. I looked at Permit #3513 and the water zone in the Newburg occurred at 4200 feet, so you should be fine. Send me your mailing address and I will send out an approval letter and application package.

Thanks,
Tom

-----Original Message-----

From: Ben Kelly [mailto:bkelly1@gmail.com]
Sent: Wednesday, July 14, 2010 1:11 AM
To: Tomastik, Tom
Subject: Follow-up, disposal well proposed location and depth

Tom,

Following up on our phone call on Monday, you asked that I provide a proposed location and indication of the depth to the Newburg for the purposes of researching whether existing production wells were cemented in that interval.

The proposed location of the disposal well is in Portage county, Atwater township, approximately 400 feet south and 50-100 feet east of the northwest corner of Lot 98. I've attached an excel file with an image of the location.

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Thank you,

5/16/2012

Geologic Review for Class II Wells

Application No. aPATT020601

Portage County, Atwater Twp.

SWIW: (Salt Water Injection Well)

Proposed Well Depth: 4,200 feet

Proposed Injection Zone: "Newburg"

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

Gravity Bouguer Anomaly

- Nothing of note.

Gravity Free Air

- Nothing of note.

Magnetic First Derivative

- There is a northwest-southeast trend ending less than a mile to the southeast of the permit application.
- There is also a northeast-southwest trend less than a mile to the southeast of the permit application.

Magnetic Second Derivative

- Nothing of note.

Magnetic Reduce Dipole

- There is a northeast-southwest trend located about 12 miles to the northwest of the permit application.

Precambrian Structure from PG-23

- The Suffield Fault System is less than 8 miles to the south south-west of the permit application.

Knox Structure

- The Suffield Fault System is less than 8 miles to the south south-west of the permit application.

Trenton Structure

- The Suffield Fault System is less than 8 miles to the south south-west of the permit application.

EGSP Onondaga Structure

- The Suffield Fault System is less than 8 miles to the south south-west of the permit application.

MRCSP Onondaga Structure

- The Suffield Fault System is less than 8 miles to the south south-west of the permit application.

EGSP Berea Structure

- The Suffield Fault System is less than 8 miles to the south south-west of the permit application.

Mississippian/Pennsylvanian Unconformity Surface

- The permit location is located at the tip of a tongue which comes in from the southeast.
- The location is also less than a mile from a structural high to the south south-west.

Middle Kittanning Coal Structure

- Unit not present.

Upper Freeport Coal Structure

- Unit not present.

Pittsburgh Coal Structure

- Unit not present.

Bedrock Geology

- The top of bedrock for the permit application is near the boundary of the Upper Pennsylvanian Allegheny and Pottsville undivided and Mississippian Logan and Cuyahoga Formations undivided.

Bedrock Topography

- The bedrock topography map indicates an east-west trending channel less than a mile to the west.

EGSP Aerial Photo Lineament

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

EGSP LANDSAT Lineament

- There are numerous lineaments in the study area none of which are closer than a mile away. The dominant lineaments trends of the areas are southwest-northeast.

Mason Lineament

- The permit application is located directly on a southwest-northeast lineament that seems to be associated with the Suffield Fault System.
- There is a grid of lineaments in the study area that seem to be associated with the Suffield Fault System. On the Grid there are three additional lineaments parallel to the lineament the permit is located on. One is less than three miles to the southeast, one is less than three miles to the northwest, and the last parallel lineament is less than 6 mile to the north-west. There are also 2 perpendicular lineaments to the one the permit is located on. The perpendicular lineament 4 miles to the south is directly over the Suffield Fault System, and the other which just over 3 miles to the north.
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Oil and gas fields

- Production in the study area is in the “Clinton,” Berea, and Knox. The permit application is located within a gas field that produces from the “Clinton.”

Earthquakes

- There has been 1 earthquake in within the 30-mile study area. The epicenter occurred in 2000 and is approximately 4 miles southeast of the salt water injection permit and had a magnitude of 3.

Injection Wells

- There are 12 active salt water disposal (SWD), and there is one active SWIW and 23 inactive salt water disposal (ISWD) wells within the 30-mile study area. They are injecting into the “Clinton/Medina” and Lockport (“Newburg”) as well as into the Mount Simon and Rome. The nearest injection well is about 2.5 miles to the southwest.

To summarize, the proposed injection well in the “Newburg” is of no major concern because of its shallow depth. If the injection zone was in a deeper unit concern would be greater. The Suffield Fault System is 4 miles southwest from the permit location. There is also Suffield associated lineaments directly on the permit location. There has only been 1 documented earthquake with a magnitude of 3 which was 4 miles to the southeast of the permit application. Injection well records indicate there are currently 12 SWD wells, 23 ISWD wells in the 30-mile study area. The nearby “Newburg” injection wells have no epicenters near them. The nearest oil and gas producing field produces from the “Clinton” sandstone.