

APPLICATION CHECKLIST

Portage County, Windham Twp.

Scinski # 41

Permit #

SWIW # 40

Enter on Agenda
 Completeness Review
 Date - Time Stamp
 Area of Review
 Site Evaluation
 Permitting Section
 Memo to Inspector
 Public Notice
 Letter 08-01-12
 Date Run _____
 15 Days _____

| Date | Initials |
|----------|----------|
| 4/2/12 | AA |
| 7-3-12 | AA |
| 4-2-12 | AA |
| 6/14/12 | AA |
| 8-9-12 | AA |
| 7-26-12 | Jmb |
| 08-01-12 | JBR |

Review Public Notice
 Affidavit of Notification
 Objections Received Yes _____ No _____
 Public Hearing Date
 Chief's Order, if Required
 Schematic
 Plot on Map
 Review by Geologist
 Permit Conditions (Same date as permit)
 Enter on Computer (Same or later date than Chief's Order)
 Enter on Master List
 EPA Form
 Mail Permit
 Update Agenda
 File

| | |
|---------|-------|
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| 6-18-12 | AA |
| 6-28-12 | AA |
| _____ | _____ |
| _____ | _____ |
| 7-3-12 | AA |
| 7-3-12 | AA |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |

RECORD OF CONVERSATION

- ~~Change depth changes to forms 1 & 203 to match current project~~
- ~~definition on form 203~~
- ~~Need surface facility sketch~~
- Received 8-1-12

Proof Sheet

APPL NUMBER

OWNER NUMBER

OWNER NAME

EXISTING WELL

API PERMIT NO

APPL TYPE

TYPE OF WELL

VARIANCE REQUEST

WELL NAME

WELL NUMBER

PREV/PROPOSED TD

DRILL UNIT ACRES

TYPE OF TOOL

WELL CLASS

FIRE PHONE

MEDICAL PHONE

COUNTY CODE

COUNTY NAME

COAL (Y=-1/N=0)

CIVIL TOWNSHIP

SURF QUAD

Nad 27 SURF ORIG X

Nad 27 SURF ORIG Y

GROUND ELEVATION

SURF SEC

SURF LOT

SURF QTR TWP

SURF ALLOT

SURF TRACT

SURF FRACTION

URBANIZED AREA ?

NAME

DISPOSAL PLAN 1

DISPOSAL PLAN 2

DISPOSAL PLAN 3

DISPOSAL PLAN 4

DISPOSAL PLAN 5

MP Check #

PROPOSED FORMATIONS

| |
|---------|
| NEWBURG |
| |
| |
| |

TARG CIVIL TWP

TARG QUAD

Nad 27 TARG ORIG X

Nad 27 TARG ORIG Y

TARG ELEV

TARG SECTION

TARG LOT

TARG QTR TWP

TARG ALLOT

TARG TRACT

TARG FRACTION

DAILY ROUTE SLIP

Windha

APPLICATION NO. aAMY0000911 TYPE: Salt Water Injection Well

CONAME HARD ROCK DRILLING & PR API

WELL NAME /NO. SOINSKI 4I

COUNTY 133 PORTAGE INITIALS DATE

DATE APPLICATION REC'D Am 4/2/2012

PERMIT FEE AND CHECK NO. \$1,000.00 1158

RUSH AMOUNT RUSH CHECK NO. \$0.00 0

APPLICATION ENTERED Am 4/2/2012

APPLICATIONS AND PLATS SENT FOR MINE APPROVAL _____

COAL APPROVAL RECEIVED _____

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 _____

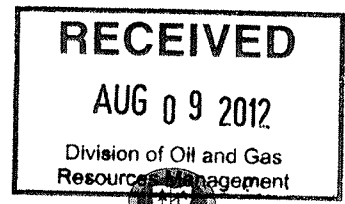
DATA ENTRY /ISSUED _____

PERMIT: TAKEN _____ MAILED _____

FAX TO: _____

FINAL MAP CHECK _____

COMMENTS: _____



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

SWIW Permit Conditions

| | | | | | |
|-------------------------------|--------------------------------------------------------------------------------------------|----------------------|--------------------------|------------|------------------------------------------|
| Application Number | SWIW #40 | Permit Number | Inspection Date | 08/02/12 | Modification Date (if applicable) |
| Company | Hard Rock Drilling and Producing, LLC | | Lease Name/Well # | Soinski #4 | |
| County | Portage | | Township | Windham | |
| Section/Lot | Lot 89 | | Urban Area | N/A | |
| Inspected By | Stephen Ochs | | | | |
| Accompanied By | C.J. Cutter (Company) and Dale Soinski (Landowner) | | | | |
| Directions to Location | US 422; 4.5 miles south on SR 534; 3 miles west on SR 82; access on the north side of road | | | | |

| ITEM | LEASE ROAD, WELL SITE CONSTRUCTION | Comments: |
|------|-----------------------------------------------------------------------|---------------------------------|
| 1 | Tree/Brush Removal/Disposition | N/A |
| 2 | Topsoil Removal/Stockpiles/Placement | N/A |
| 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 | 41.25569 -81.02827 |
| 10 | GPS – Well Stake | 41.26451 -81.02548 |
| 11 | GPS – Tank Battery | 41.26170 -81.01926 |

| 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? | <input checked="" type="checkbox"/> | Yes | <input type="checkbox"/> 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) | N/A | | |
| 18 | Flood Plain | Approx. 0.7 miles from Eagle Creek | | |
| 19 | Mine Voids | None | | |
| 20 | Verify Water Wells Within 300' | None | | |
| 21 | Verify Structures Within 500' | None | | |
| 22 | Verify Streams and Drainage | Drainage east toward Eagle Creek | | |

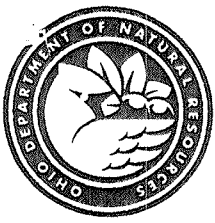
| ITEM | RESTORATION | Comments: | | |
|------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--|--|
| 23 | Pit Closure – (Standard/ Solidification/ 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? | <input checked="" type="checkbox"/> | Yes | <input type="checkbox"/> 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? | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> X | <input type="checkbox"/> No |
| If yes, submit the following waiver requests: | | | | |

| | | | |
|-----------------------------------------------------|------------------------------|---------------------------------------|-----------------------------|
| Is the Company required to submit revised drawings? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> X | <input type="checkbox"/> No |
|-----------------------------------------------------|------------------------------|---------------------------------------|-----------------------------|

| 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. Charles J. Cutter

Hard Rock Drilling and Production, LLC
7646 Cedar Valley Road
West Salem, Ohio 44287

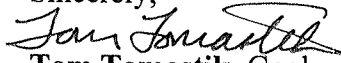
RE: Public Notification for SWIW application for Portage County, Nelson Twp. and Windham Twp., seven new wells, Hard Rock Drilling and Production, LLC, Soinski #1, #21, #31, #41, #5, #6, and #7 injection wells.

Dear **Mr. Cutter**:

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,


Tom Tomastik, Geologist

UIC Section

Division of Oil and Gas Resources Management

2045 Morse Road, F-2

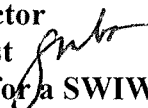
Columbus, Ohio 43229-6693

Cc: File

PUBLIC NOTICE

Hardrock Drilling and Production, LLC, 7646 Cedar Valley Road, West Salem, Ohio (419) 846-3850 is applying to permit seven wells for the injection of brine water produced in association with oil and natural gas. The location of the proposed injection wells are: Soinski SWD #1 and #4I wells at Lot 89; Soinski SWD #2I and #3I wells at Lot 90 in Windham Township; Soinski SWD #5, #6 and #7 at Lot 45 in Nelson Township; Portage County, Ohio. The proposed wells will inject into Newburg dolomite at a depth of 4000 to 4200 feet. The average injection is estimated to be 800 barrels per day. The maximum injection pressure is estimated to be 920 psi. Further information can be obtained by contacting Hardrock Drilling and Production, 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 
SUBJECT: Application and Site Evaluation for a SWIW permit
DATE: July 26, 2012

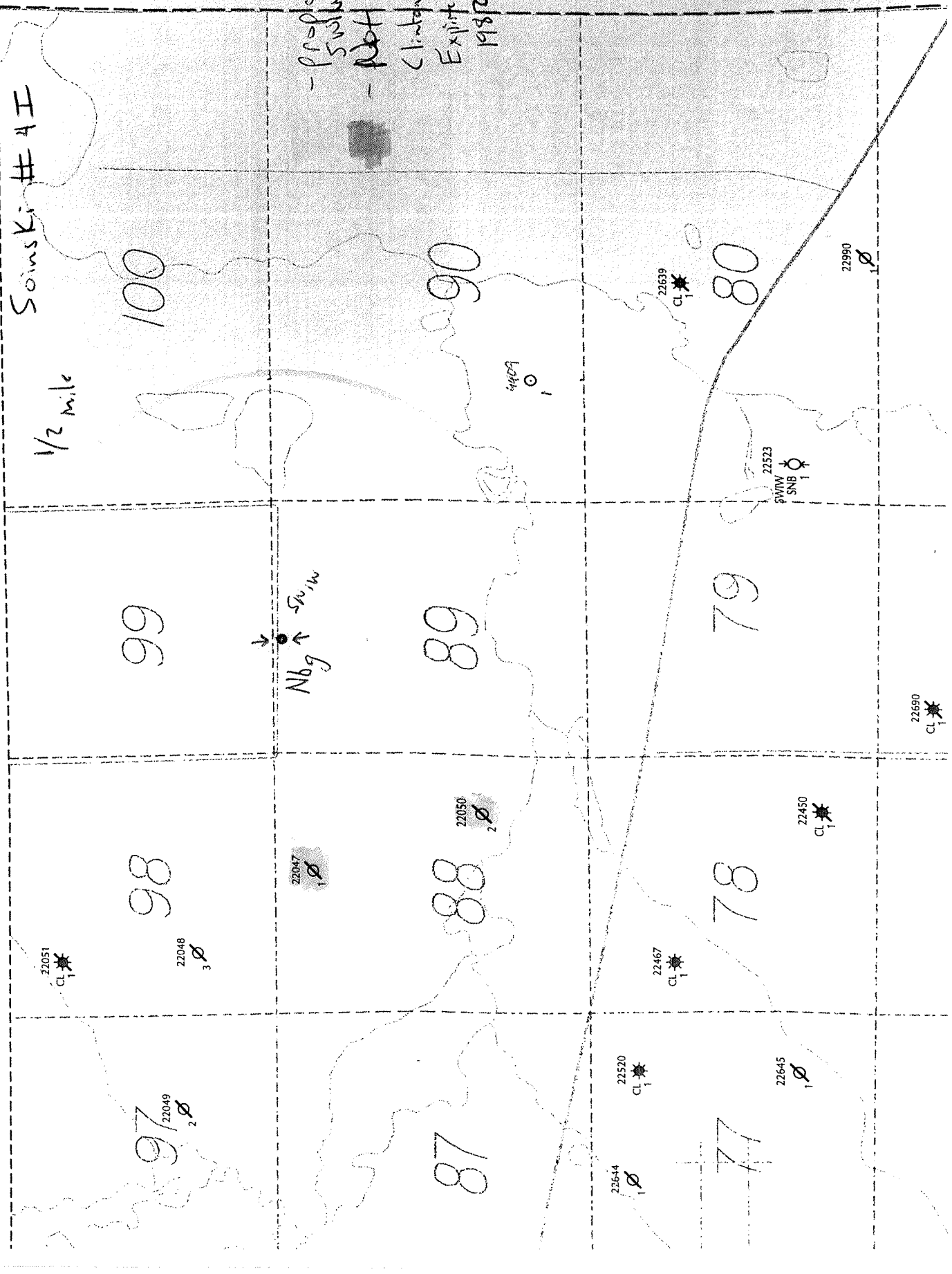
The Division of Oil and Gas Resources Management has received an application for the proposed saltwater injection well as described below:

OPERATOR: HARD ROCK DRILLING & PROD LLC
WELL NAME & NUMBER: SOINSKI # 4I
PERMIT NUMBER: NEW WELL, SWIW # 40
LOCATION: 60' NL & 1193' EL of LOT 89, WINDHAM Twp., PORTAGE County
PROPOSED INJECTION ZONE: NEWBURG DOLOMITE
DATE RECEIVED: APRIL 2, 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.

gmbo_UIC_0726_2012_Ochs05

Portage County, Windham Twp. SW1W 40



- Proposed
SW1W #40
- Not Drilled
Clinton wells
Expired permits
1987

Soins Kir #4 I

1/2 mile

N69
S69

4409

100

96

80

99

89

79

98

88

78

97

87

77

22051
CL 1

22048
3

22049
2

22047
1

22050
2

22644
1

22520
CL 1

22467
CL 1

22645
1

22450
CL 1

22690
CL 1

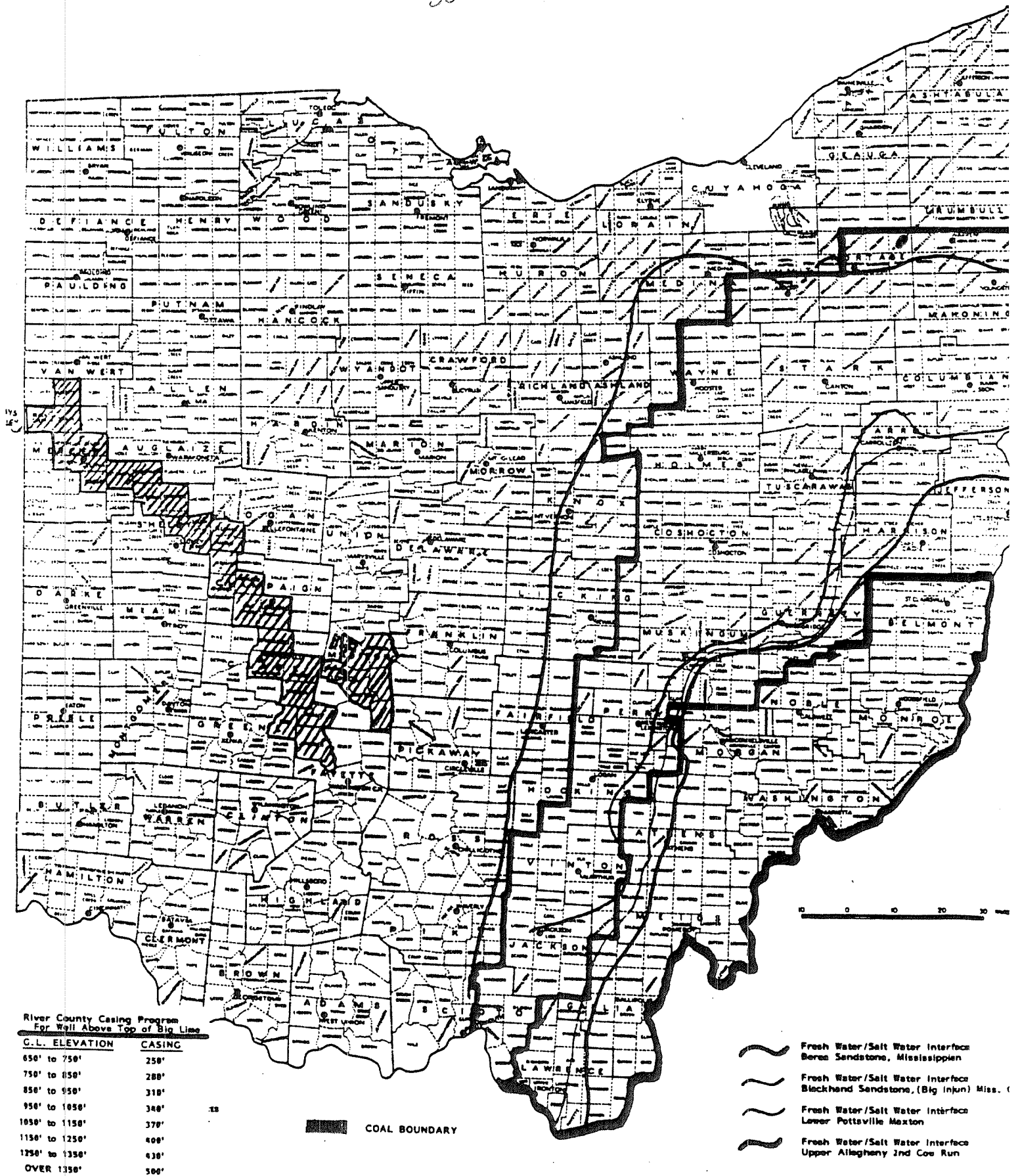
22523
SW1W
SNB 1

22539
CL 1

22990
1

Portage County, Wadham Twp

Soinski # 4I



Tomastik, Tom

From: Eggert, Michael [michael.eggert@epa.state.oh.us]
Sent: Tuesday, June 19, 2012 3:08 PM
To: Tomastik, Tom
Cc: Taliaferro, Lindsay; Lowe, Chuck; Smith, Craig
Subject: Review of 5 Class II Injection Well Permit Applications
Attachments: ODNR_ClassII_PermitReview_Jun19_2012.doc; Soinski_Wells_1-4 (2).pdf; Evrol-Kelly_Disposal_Well.pdf

Tom,

Please see attached documents with Ohio EPA's review of the proposed Class II Injection Well permit applications.

Contact Chuck Lowe or Craig Smith if you have any questions.

Michael Eggert

Assistant Chief, DDAGW
Ohio Environmental Protection Agency
50 West Town Street, *Suite* 700
Columbus, Ohio 43215

Phone: 614.644.2767

E-mail: michael.eggert@epa.state.oh.us

Web: <http://www.epa.state.oh.us/home.aspx>

This message was secured by Zix (R).

6/21/2012

To: Tom Tomastik, ODNR-DOGRM
From: Michael Eggert, Assistant Chief, Ohio EPA-DDAGW
Date: June 19, 2012
Subject: Class II Injection Well Permit Reviews

Ohio EPA Division of Drinking and Ground Waters has completed its review of five (5) Class II underground injection well permits.

Our review of the Class II permits focused on well construction relative to the protection of underground sources of drinking water (USDW) and the location of the surface facilities relative to public water system source water protection areas and other sensitive hydrogeologic settings.

Our review indicated no major problems that should cause a delay in approving the permits. However, the following technical issues should be addressed by the applicants prior to well construction.

The **Evrol #1 Evrol LLC** (Portage Co., Atwater Twp., Lot 98) has the following concerns:

- The surface casing and cement appear adequate. However, the type of cement (Class A is recommended) to be used and the placement of centralizers should be specified.
- The proposed injection zone is an open hole completion in the Newburg Dolomite. Atwater Twp. has been heavily drilled, with eight (8) Clinton Sandstone wells within the area of review (1/2 mile). Review of the cementing practices for the completion casing shows that the industry standard was to place cement over the producing (Clinton) interval with the cement top below the Newburg. Surface casing was set below the lowermost USDW and cemented to surface. However, the interval between the top of the Clinton cement and the base of the USDW is open. The potential for fluid movement out of the Newburg exists through these un-cemented well bores.
- The requested maximum injection pressure (1103 psi) exceeds the calculated value (958 psi) using a specific gravity of 1.2.

The **Hard Rock Drilling & Producing Soinski Wells 1-I, 2-I, 3-I and 4-I** (Portage Co., Windham Twp. Lots 89 & 90) have the following questions:

- The proposed depth of the surface casing listed for each well in the proposed casing program (No. 21) does not agree with the depths shown in the well construction and operation (No. 32) and the well schematic (No. 37). The latter are considered to be the correct depths. The type of cement to be used (Class A is recommended) and the placement of centralizers should be specified.
- A description of the surface facility for each well was given, but the locations were not shown. It is assumed that a single unloading facility was envisioned by Hard Rock Drilling, but not specified. If this is the case, then the locations of the flow lines and any stream crossings should be shown.
- The requested maximum injection pressure (1000 psi) exceeds the calculated value (968 psi).

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 #1I, #2I, #3I and #4I 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)

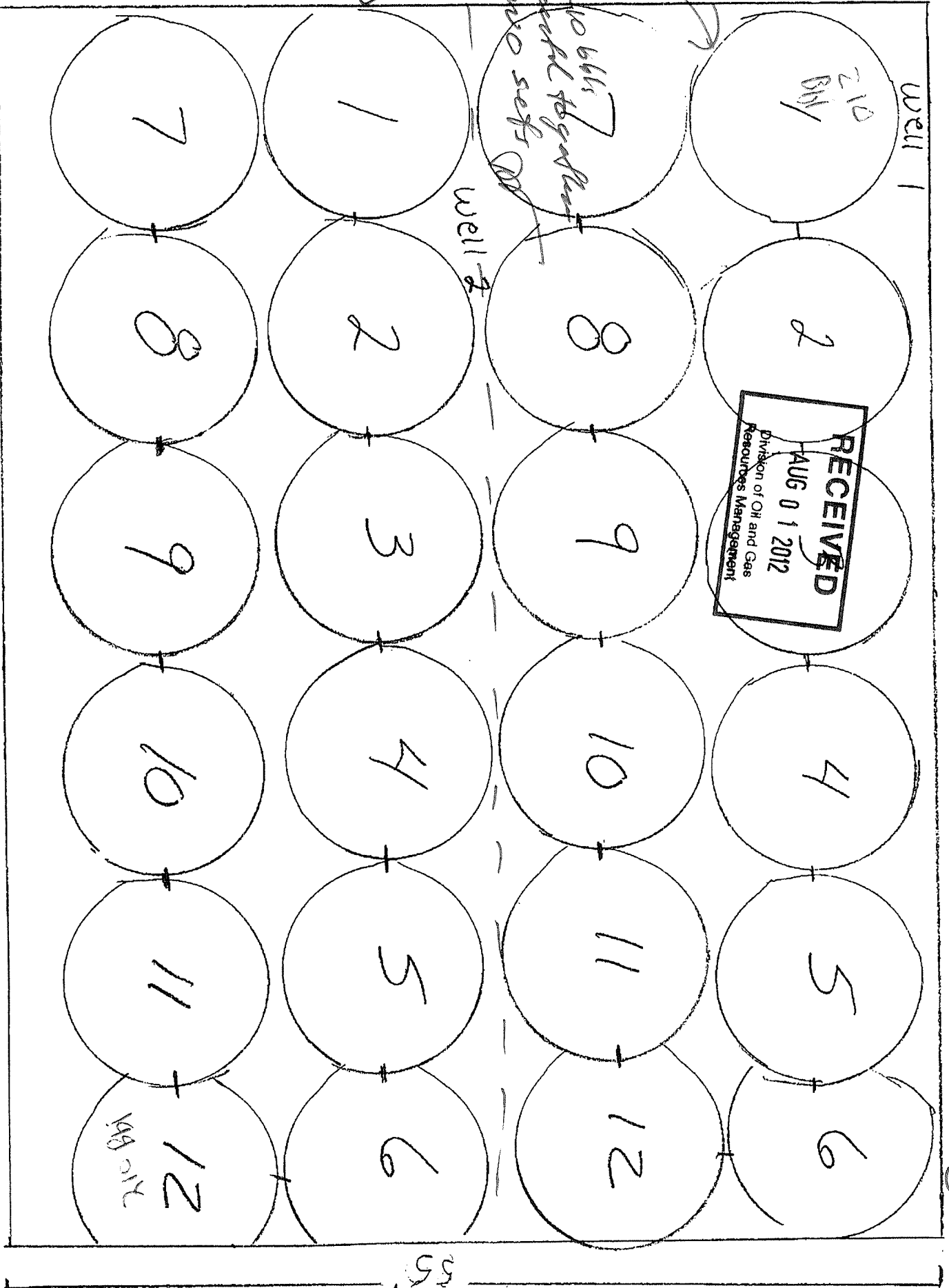
- No public water system wells or intakes are located within ½ mile of the proposed well location.
- No drinking water source protection area for a public water system using a ground water source extends to within ½ miles of the proposed well location.
- The proposed well location is within the corridor 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 #1I, Soinski #2I, Soinski #3I & Soinski #4I (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.



12 x 240 bbls
= 2520 bbls

85' x 55' x 0.0148 = 69.19 bbls per inch X 40" in height
= 2767 bbls capacity

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>Hard Rock Drilling & Producing LLC</u> 2. Owner #: <u>8837</u> (address) <u>7646 Cedar Valley Road, West Salem, Ohio 44287</u> Phone #: <u>419-846-3850</u> hereby apply this date <u>21-Mar</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: <u>Hard Rock Drilling & Producing LLC, 7646 Cedar Valley Road, West Salem, Ohio 44287</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>Portage</u> | 21. PROPOSED CASING PROGRAM: <u>16" Conductor cement to surface, 11 3/4 surface to 380' cement to surface, 8 5/8 surface to 4200', 5 1/2 tubing set on packer within 100' of top of perf approximately 4000'</u> <i>AA 4000'</i> |
| 6. CIVIL TOWNSHIP: <u>Windham</u> | |
| 7. SECTION: _____ 8. LOT: <u>89</u> | |
| 9. FRACTION: _____ 10. QTR TWP: _____ | |
| 11. TRACT / ALLOT: _____ | |
| 12. WELL #: <u>4I</u> | |
| 13. LEASE NAME: <u>Soinski</u> | |
| 14. PROPOSED TOTAL DEPTH: <u>4200</u> | |
| 15. PROPOSED GEOLOGICAL FORMATION: <u>Newburg</u> | |
| 16. DRILLING UNIT IN ACRES (must be same as acres indicated on plat): <u>484.73</u> | |
| 17. IF PERMITTED PREVIOUSLY: API #: _____ OWNER: _____ WELL #: _____ LEASE NAME: _____ TOTAL DEPTH: _____ GEOLOGICAL FORMATION: _____ | 22. FIRE AND MEDICAL DEPARTMENT TELEPHONE NUMBERS: (closest to well site) Fire: <u>911</u> Medical: <u>911</u> |
| 18. IF SURFACE RIGHTS ARE OWNED BY THE OHIO DEPARTMENT OF NATURAL RESOURCES Division Name: _____ Division Phone: _____ | 23. MEANS OF INGRESS & EGRESS: Township Road: _____ County Road: _____ Municipal Road: _____ State Highway: <u>St. Rt. 82</u> |
| 19. LANDOWNER ROYALTY INTEREST: Is There An Attached List? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name: <u>Dale Soinski</u> Address: <u>10218 Silica Sand Road, Garrettsville, Ohio 44231</u> Name: _____ Address: _____ Name: _____ Address: _____ | 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 |

RECEIVED
 APR 12 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.

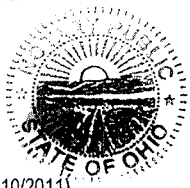
I, the undersigned, further depose and state that I am the person who has the right to drill on the tract or drilling unit and to drill into and produce from a pool and to appropriate the oil or gas that I produce therefrom either for myself or others as described in this application. And furthermore, 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 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 Oil and Gas Resources Management.

Signature of Owner/Authorized Agent *Charles J. Cutler*
 Name (Type or Print) Charles J. Cutler Title Pres

If signed by Authorized Agent, a certificate of appointment of agent must be on file.

Sworn to and subscribed before me this the 28 day of March, 20 12



KRISTIN L. CUTLER
 Notary Public, State of Ohio
 My Commission Expires
 April 1, 2012

Kristin L. Cutler
 (Notary Public)

April 1, 2012
 (Date Commission Expires)

Before this application can be processed, an Authority and Organization Form (Form 9), indicating the exact owner name on this form, and proof of compliance with the surety and insurance requirements of Chapter 1509.07, Ohio Revised Code, must be on file with the Division of Oil and Gas Resources Management. The signature of owner/authorized agent must correspond with the signature(s) listed on the Form 9 on file with the Division.

All information requested on this form must be provided unless exempted by the instructions below. Incomplete applications may be returned to the applicant. An application for a permit requires the following:

1. Drill, Reopen, Deepen and Plug Back an *Oil and Gas Well* (non-urban valid for 24 months; urban valid for 12 months)

- a. Original and two (2) copies of Application for a Permit (Form 1);
- b. Original and four (4) copies of an Ohio registered surveyor's plat;
- c. Original and one (1) copy of the Restoration Plan (Form 4);
- d. Reopen, deepen, plug back and convert will require three (3) copies of the Well Completion Record (Form 8);
- e. \$500.00 check or money order payable to the Division of Oil and Gas Resources Management and;
- f. If requesting an expedited review, an additional \$250 fee is required; and an Oil & Gas Affidavit (if the proposed well location is in a coal-bearing township).
- g. For an **urbanized area** new well drilling permit, the fee is as follows: \$500 for a township with a population up to 9,999; \$750 for a township with a population of 10,000 to 14,999; \$1,000 for a township with a population exceeding 15,000; and \$1,000 for all municipal corporations regardless of population.
- h. For **mandatory pooling**, an additional \$5,000.

2. Reissue or Revised Location

- a. Same as above: 1(a), (b), (c), (d), (f);
- b. \$250 check or money order payable to the Division of Oil and Gas Resources Management.

3. Plug and Abandon (valid for 24 months)

- a. Original copy of Application for a Permit (Form 1);
- b. Two (2) copies of the Ohio registered surveyor's plat originally filed, or modified, if available;
- c. Three (3) copies of the Well Completion Record (Form 8) if available; if there is no Well Completion Record on file with the Division, provide any drilling information that is available;
- d. \$250 check or money order payable to the Division of Oil and Gas Resources Management;
- e. If requesting an expedited review, an additional \$500 fee is required.

4. Drill, Reissue, Reopen, Deepen, Plug Back or Convert a Well to *Saltwater Injection*

- a. Same as above: 1(a), (b), (c), (d); and
- b. \$1,000 check or money order payable to the Division of Oil and Gas Resources Management.

5. Temporary Inactive (valid for 12 months)

- a. Original and one (1) copy of Application for a Permit (Form 1);
- b. A map, on a scale not smaller than four hundred feet to the inch, that shows the location of the well and the tank battery, that includes the latitude and longitude of the well;
- c. A written statement that the well is of future utility, and that there is a viable plan to use the well within a reasonable period of time and the well poses no threat to the health or safety of persons, property or the environment;
- d. For first application, \$100 check or money order payable to the Division of Oil and Gas Resources Management;
- e. For first renewal, \$250 check or money order payable to the Division of Oil and Gas Resources Management;
- f. For subsequent renewals, \$500 check or money order payable to the Division of Oil and Gas Resources Management; additional bonding may be required.

Item 1. Permit holder's name - as it appears on Form 9. Indicate the type of or combination of activities to be permitted.

Item 2. Indicate owner number, if the owner number is not known, please contact the Division.

Item 3. Indicate the type of well for which the application is being submitted.

Item 4. Provide name, address, city, state and zip code where the permit is to be mailed.

Items 5-11. Indicate drilling location.

Items 12-16. Provide requested information.

Item 17. Complete when application is for a permit to reopen, deepen, reissue, plug back, convert, or plug and abandon. If the well was never permitted, list "NONE" under permit #; all other wells require the permit number.

Item 18. Complete if surface rights are owned by the Ohio Department of Natural Resources.

Item 19. List names and addresses of all landowner royalty interest holders. Names must coincide with those shown on the designated unit or subject tract on the surveyor's plat or an explanation must be included. Additional sheets may be attached (overriding royalty and working interests are not required).

Item 20. Indicate type of tools that may be used.

Item 21. Indicate size and amount of casing to be used, and/or formations to be cased off.

Item 22. Indicate fire and medical department emergency telephone numbers closest to the well site.

Item 23. List all county, township, and/or municipal roads, streets and highways by name or number that applicant anticipates to use as means of ingress and egress to and from the well site.

Item 24. An "urbanized area" is a municipal corporation or a township that has an unincorporated population of more than five thousand, as defined under Section 1509.01 (Y) of the Ohio Revised Code. Notice must be provided by regular mail to the owner of each parcel of real property that is located within five hundred feet of the surface location of the well, and to either the executive authority of the municipal corporation or the board of township trustees (see 1509.06 (A) (9)).

**SUPPLEMENT TO APPLICATION
PERMIT FOR AN ENHANCED RECOVERY PROJECT (Form 203)**

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 an Enhanced Recovery Project (ERP) will be evaluated on the basis of an "area of review" surrounding the proposed input wells for the project. The area of review for projects in which injection of greater than two hundred barrels per day per well is proposed shall be the area circumscribed by a circle with one center point at the location of each input well and a radius of one-half mile. The area of review for projects in which a maximum injection of two hundred barrels per day per well or less is proposed shall be the area circumscribed by a circle with the center point at the location of each input well and a radius of one-quarter mile. Projects in which gas is the proposed injection fluid will have an area of review consisting of an area circumscribed by a circle with the center point at the location of each input well and a radius of one-quarter mile.

31. PROPOSED INJECTION ZONE

Geological Formation: Newburg
 Injection Interval: From: ~~4050~~ 4000' AA feet to 4200
 Geologic description of injection zone: 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:
1 1/4 casing surface to 600', 8 5/8 casing surface to 4000' open hole with 1500' of cement fill up.
5 1/2 tubing set on a packer at approx. 3900'. Well will be bonded long to show cement top.

B. Proposed method for testing the casing:
Pressure test to be done after cementing of longstring. A bond log to show integrity and cement top.
Pressure up on longstring after cementing before open hole.

C. Description of the proposed method for completion and operation of the injection well:
5 1/2 tubing set on a packer at approx. 3900'

D. Description of the proposed unloading, surface storage, and spill containment facilities:
The unloading area will be concrete with a concrete vault to hold any spillage. The water will be stored in 210 or 400 BBL tanks which will be placed on a concrete pad with concrete walls. This dike will be of sufficient size to contain all water in case of tank failure.
Trucks will unload through a strainer/ filter into the tank. Water will be filtered to the injection pump.

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33. PROPOSED INJECTION VOLUMES

A. Indicate the estimated amount of saltwater to be injected into the proposed injection well per day:
 AVERAGE: 800 MAXIMUM: 1600

B. Indicate the method to be used to measure the actual amount of saltwater injected into the well:
Paperwork turned in by drivers. Electronics on unload station to monitor trucks & amount of water with flowmeter

34. PROPOSED INJECTION PRESSURES

A. Indicate the estimated pressure to be used for injection of saltwater into the proposed injection well:
 AVERAGE: 800 MAXIMUM: 1000 920 PSI
AA

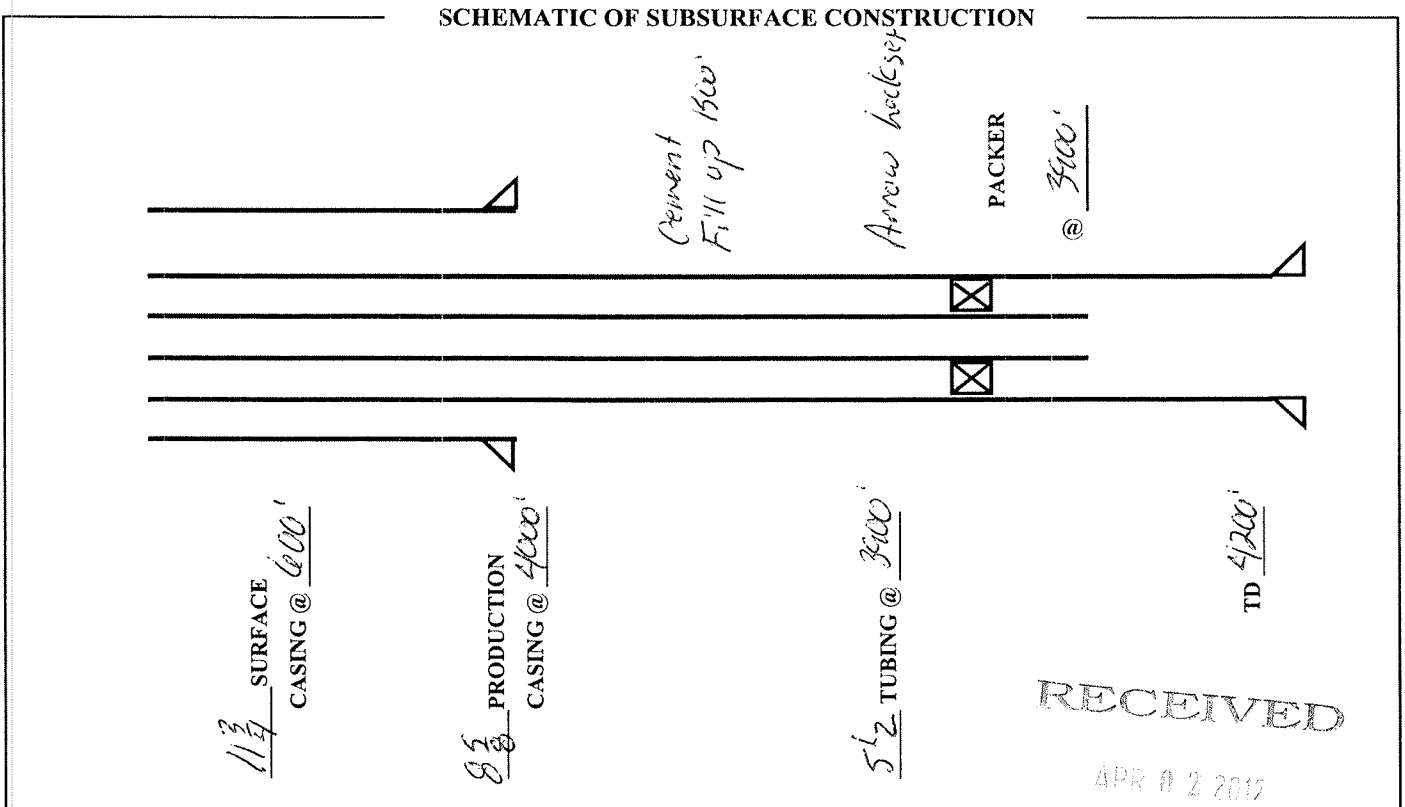
B. Indicate the method to be used to measure the actual daily injection pressure:
Gauges on wellhead recorded by well tender and electronics on the well with transducers

35. PROPOSED CORRECTIVE ACTION

Explain any corrective action proposed for wells penetrating the proposed injection formation or zone within the area of review.
There is no wells within the are of review.

36. **MAP.** Each application for a permit shall be accompanied by a map or maps showing and containing the following information:
- A. The subject area trace or tracts of land and their owners upon which the proposed enhanced recovery operations are to be conducted;
 - B. The location and designation of all input, withdrawal, or observation wells on the tract or tracts to be utilized in the enhanced recovery project.
 - 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 area.
 - 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 Oil and Gas Resources Management.

Owner/Authorized Agent (Type or Print): Charles J. Cutler
 Signature of Owner/Authorized Agent: [Signature] Title: Pres
 Permanent Address of Home Office: 7646 Cedar Valley Rd. W. Exton, OH 44287

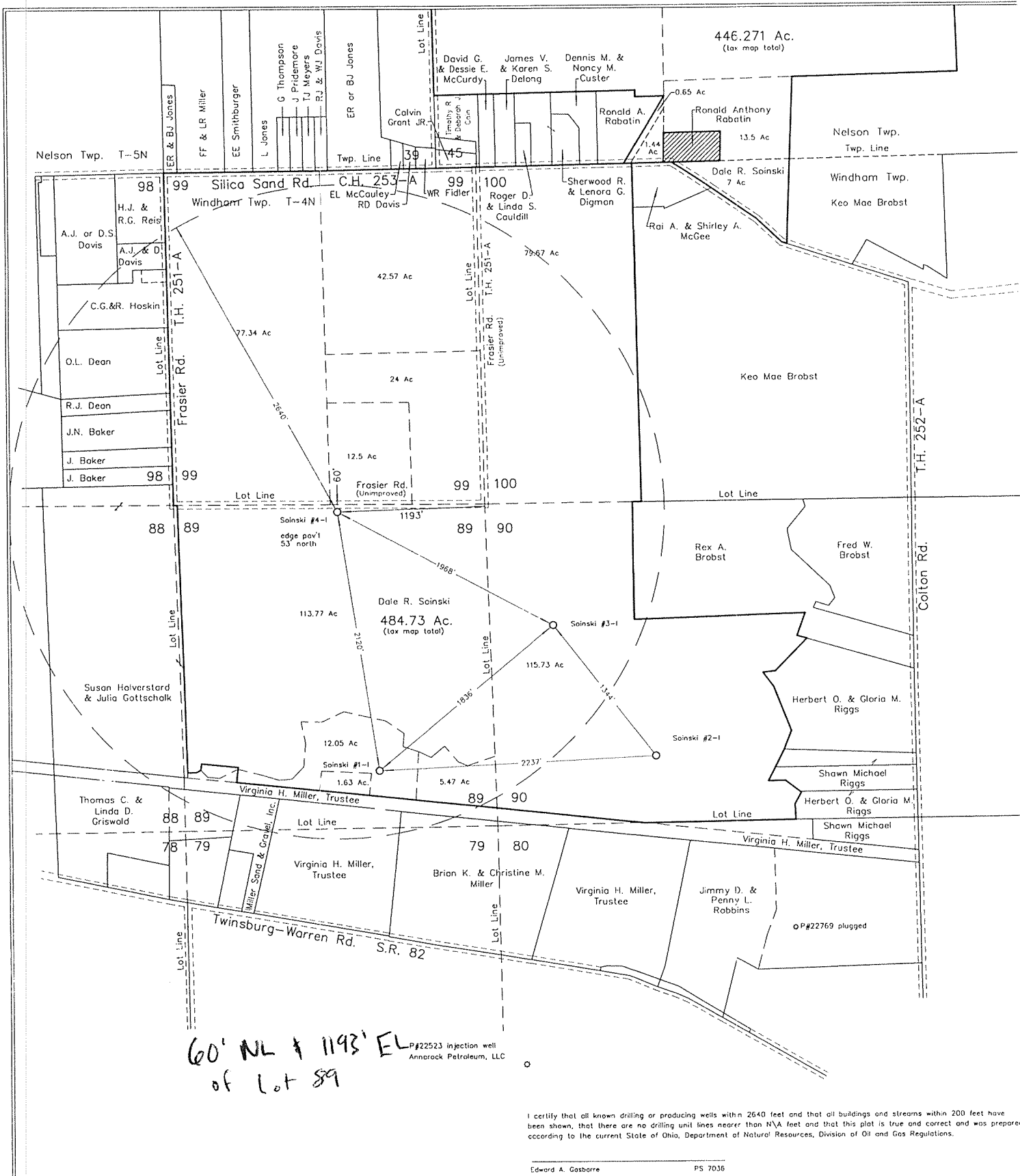
If signed by Authorized Agent, a certified copy of appointment of agent must be on file with the Division.

SWORN to and subscribed before me this 28 day of March, 2012.



KRISTIN L. CUTLER
 Notary Public, State of Ohio
 My Commission Expires
 April 1, 2012

[Signature]
 Notary Public
April 1, 2012
 Date Commission Expires



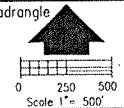
I certify that all known drilling or producing wells within 2640 feet and that all buildings and streams within 200 feet have been shown, that there are no drilling unit lines nearer than N/A feet and that this plot is true and correct and was prepared according to the current State of Ohio, Department of Natural Resources, Division of Oil and Gas Regulations.

Edward A. Gasbarre PS 7036

Soinski Injection Well #4-I
 Windham Township
 Lot 89, T-4N, R-6W (Connecticut Western Reserve)
 Portage County, Ohio

Plane Coordinates: Ohio North Zone, Garrettsville Quadrangle
 NAD83 NAD27
 (US Survey Feet) (US Survey Feet)
 N 585,541 N 585,510
 E 2,373,846 E 2,403,307
 H 945 (NAVD88) (derived from GPS observations)

Prepared For: Hardrock Drilling and Producing
 9270 Cedar Valley Road
 West Salem, Ohio 44287
 Date: February 9, 2012
 Drawing: Master_212002.dwg
 R.W. GASBARRE & Associates, Inc.
 Professional Land Surveyors
 401 South Market St. - P.O. Box 44
 Wooster, Ohio 44691
 Ph: 339-264-9499



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>Hard Rock Drilling & Producing LLC</u> 2. Owner #: <u>8837</u> (address) <u>7646 Cedar Valley Road, West Salem, Ohio 44287</u> Phone #: <u>419-846-3850</u> hereby apply this date <u>21-Mar</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: Hard Rock Drilling & Producing LLC, 7646 Cedar Valley Road, West Salem, Ohio 44287 | 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: 16" Conductor cement to surface, 11 3/4 surface to ^{AA} 350' cement to surface, 8 5/8 surface to 4200' ^{AA} 4200', 5 1/2 tubing set on packer within 100' of top of perf approximately 4000' AA 4200' |
| 6. CIVIL TOWNSHIP: <u>Windham</u> | |
| 7. SECTION: _____ 8. LOT: <u>89</u> | |
| 9. FRACTION: _____ 10. QTR TWP: _____ | |
| 11. TRACT / ALLOT: _____ | |
| 12. WELL #: <u>41</u> | |
| 13. LEASE NAME: <u>Soinski</u> | |
| 14. PROPOSED TOTAL DEPTH: <u>4200</u> | |
| 15. PROPOSED GEOLOGICAL FORMATION: <u>Newburg</u> | |
| 16. DRILLING UNIT IN ACRES (must be same as acres indicated on plat): <u>484.73</u> | |
| 17. IF PERMITTED PREVIOUSLY: API #: _____ OWNER: _____ WELL #: _____ LEASE NAME: _____ TOTAL DEPTH: _____ GEOLOGICAL FORMATION: _____ | 22. FIRE AND MEDICAL DEPARTMENT TELEPHONE NUMBERS: (closest to well site) Fire: <u>911</u> Medical: <u>911</u> |
| 18. IF SURFACE RIGHTS ARE OWNED BY THE OHIO DEPARTMENT OF NATURAL RESOURCES Division Name: _____ Division Phone: _____ | 23. MEANS OF INGRESS & EGRESS: Township Road: _____ County Road: _____ Municipal Road: _____ State Highway: <u>St. Rt. 82</u> |
| 19. LANDOWNER ROYALTY INTEREST: Is There An Attached List? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Name: <u>Dale Soinski</u> Address: <u>10218 Silica Sand Road, Garrettsville, Ohio 44231</u> Name: _____ Address: _____ Name: _____ Address: _____ | 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 |

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 Oil and Gas Resources Management.

Signature of Owner/Authorized Agent [Signature]
 Name (Type or Print) Charles J. Cutler Title Pres

If signed by Authorized Agent, a certificate of appointment of agent must be on file.
 Sworn to and subscribed before me this the 28 day of March, 2012



KRISTIN L. CUTLER
 Notary Public, State of Ohio
 My Commission Expires
 April 1, 2012

[Signature]
 (Notary Public)

April 1, 2012
 (Date Commission Expires)

Before this application can be processed, an Authority and Organization Form (Form 9), indicating the exact owner name on this form, and proof of compliance with the surety and insurance requirements of Chapter 1509.07, Ohio Revised Code, must be on file with the Division of Oil and Gas Resources Management. The signature of owner/authorized agent must correspond with the signature(s) listed on the Form 9 on file with the Division.

All information requested on this form must be provided unless exempted by the instructions below. Incomplete applications may be returned to the applicant. An application for a permit requires the following:

1. Drill, Reopen, Deepen and Plug Back an Oil and Gas Well (non-urban valid for 24 months; urban valid for 12 months)

- a. Original and two (2) copies of Application for a Permit (Form 1);
- b. Original and four (4) copies of an Ohio registered surveyor's plat;
- c. Original and one (1) copy of the Restoration Plan (Form 4);
- d. Reopen, deepen, plug back and convert will require three (3) copies of the Well Completion Record (Form 8);
- e. \$500.00 check or money order payable to the Division of Oil and Gas Resources Management and;
- f. If requesting an expedited review, an additional \$250 fee is required; and an Oil & Gas Affidavit (if the proposed well location is in a coal-bearing township).
- g. For an **urbanized area** new well drilling permit, the fee is as follows: \$500 for a township with a population up to 9,999; \$750 for a township with a population of 10,000 to 14,999; \$1,000 for a township with a population exceeding 15,000; and \$1,000 for all municipal corporations regardless of population.
- h. For **mandatory pooling**, an additional \$5,000.

2. Reissue or Revised Location

- a. Same as above: 1(a), (b), (c), (d), (f);
- b. \$250 check or money order payable to the Division of Oil and Gas Resources Management.

3. Plug and Abandon (valid for 24 months)

- a. Original copy of Application for a Permit (Form 1);
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- d. \$250 check or money order payable to the Division of Oil and Gas Resources Management;
- e. If requesting an expedited review, an additional \$500 fee is required.

4. Drill, Reissue, Reopen, Deepen, Plug Back or Convert a Well to Saltwater Injection

- a. Same as above: 1(a), (b), (c), (d); and
- b. \$1,000 check or money order payable to the Division of Oil and Gas Resources Management.

5. Temporary Inactive (valid for 12 months)

- a. Original and one (1) copy of Application for a Permit (Form 1);
- b. A map, on a scale not smaller than four hundred feet to the inch, that shows the location of the well and the tank battery, that includes the latitude and longitude of the well;
- c. A written statement that the well is of future utility, and that there is a viable plan to use the well within a reasonable period of time and the well poses no threat to the health or safety of persons, property or the environment;
- d. For first application, \$100 check or money order payable to the Division of Oil and Gas Resources Management;
- e. For first renewal, \$250 check or money order payable to the Division of Oil and Gas Resources Management;
- f. For subsequent renewals, \$500 check or money order payable to the Division of Oil and Gas Resources Management; additional bonding may be required.

Item 1. Permit holder's name - as it appears on Form 9. Indicate the type of or combination of activities to be permitted.

Item 2. Indicate owner number, if the owner number is not known, please contact the Division.

Item 3. Indicate the type of well for which the application is being submitted.

Item 4. Provide name, address, city, state and zip code where the permit is to be mailed.

Items 5-11. Indicate drilling location.

Items 12-16. Provide requested information.

Item 17. Complete when application is for a permit to reopen, deepen, reissue, plug back, convert, or plug and abandon. If the well was never permitted, list "NONE" under permit #; all other wells require the permit number.

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Item 23. List all county, township, and/or municipal roads, streets and highways by name or number that applicant anticipates to use as means of ingress and egress to and from the well site.

Item 24. An "urbanized area" is a municipal corporation or a township that has an unincorporated population of more than than five thousand, as defined under Section 1509.01 (Y) of the Ohio Revised Code. Notice must be provided by regular mail to the owner of each parcel of real property that is located within five hundred feet of the surface location of the well, and to either the executive authority of the municipal corporation or the board of township trustees (see 1509.06 (A) (9)).

**SUPPLEMENT TO APPLICATION
PERMIT FOR AN ENHANCED RECOVERY PROJECT (Form 203)**

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 an Enhanced Recovery Project (ERP) will be evaluated on the basis of an "area of review" surrounding the proposed input wells for the project. The area of review for projects in which injection of greater than two hundred barrels per day per well is proposed shall be the area circumscribed by a circle with one center point at the location of each input well and a radius of one-half mile. The area of review for projects in which a maximum injection of two hundred barrels per day per well or less is proposed shall be the area circumscribed by a circle with the center point at the location of each input well and a radius of one-quarter mile. Projects in which gas is the proposed injection fluid will have an area of review consisting of an area circumscribed by a circle with the center point at the location of each input well and a radius of one-quarter mile.

31. PROPOSED INJECTION ZONE

Geological Formation: Newburg
 Injection Interval: From: 4050 ^{AA} 4000' feet to 4200
 Geologic description of injection zone: 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:
11 3/4 casing surface to 600', 8 5/8 casing surface to 4000' open hole with 1500' of cement fill up.
5 1/2 tubing set on a packer at approx. 3900'. Well will be bond longed to show cement top.
- B. Proposed method for testing the casing:
Pressure test to be done after cementing of longstring. A bond log to show integrity and cement top.
Pressure up on longstring after cementing before open hole.
- C. Description of the proposed method for completion and operation of the injection well:
5 1/2 tubing set on a packer at approx. 3900'
- D. Description of the proposed unloading, surface storage, and spill containment facilities:
The unloading area will be concrete with a concrete vault to hold any spillage. The water will be stored in 210 or 400 BBL tanks which will be placed on a concrete pad with concrete walls. This dike will be of sufficient size to contain all water in case of tank failure.
Trucks will unload through a strainer/ filter into the tanke. Water will be filtered to the injection pump.

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33. PROPOSED INJECTION VOLUMES

- A. Indicate the estimated amount of saltwater to be injected into the proposed injection well per day:
 AVERAGE: 800 MAXIMUM: 1600
- B. Indicate the method to be used to measure the actual amount of saltwater injected into the well:
Paperwork turned in by drivers. Electronics on unload station to monitor trucks & amount of water with flowmeter

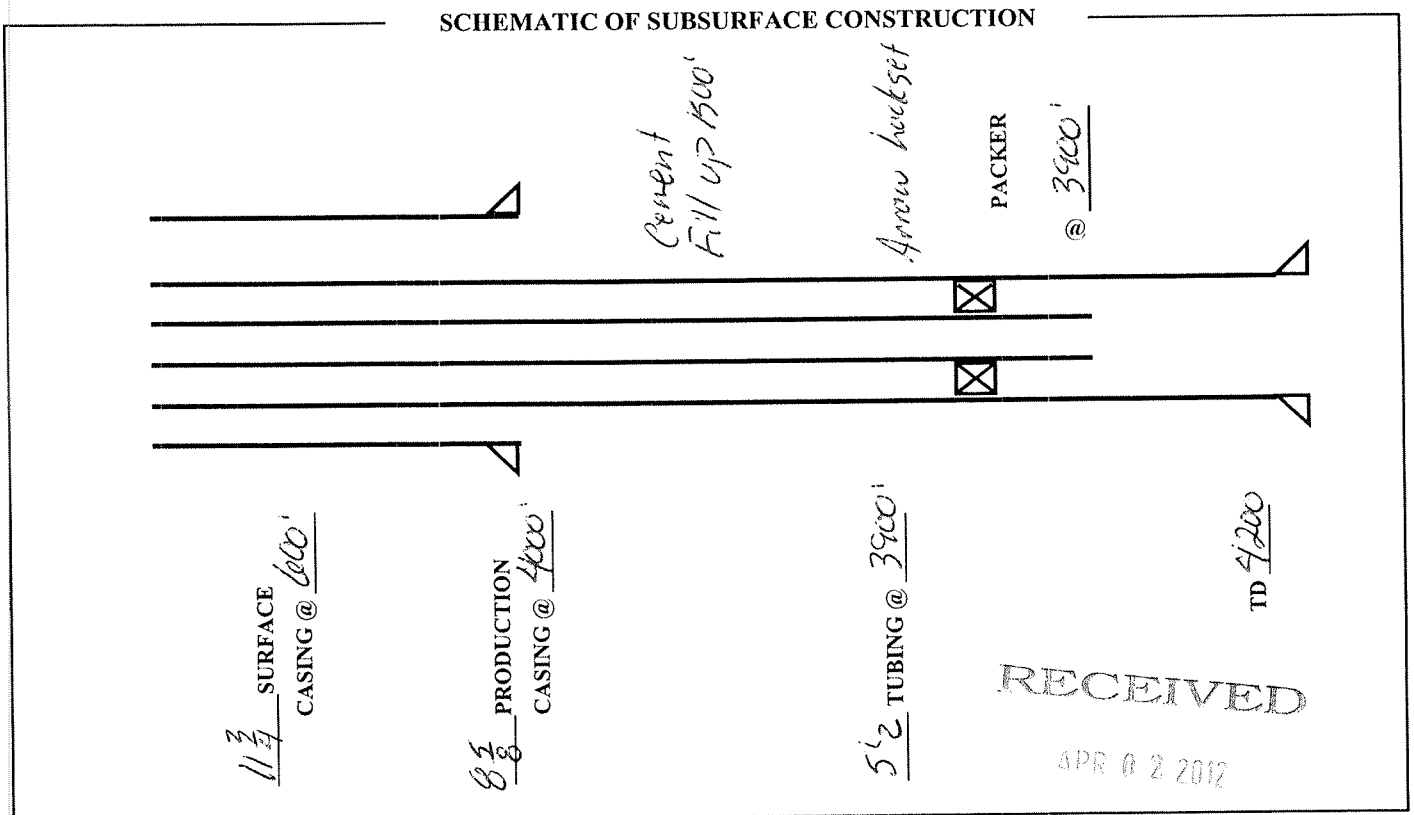
34. PROPOSED INJECTION PRESSURES

- A. Indicate the estimated pressure to be used for injection of saltwater into the proposed injection well:
 AVERAGE: 800 MAXIMUM: 1000 ^{920 ps} AA
- B. Indicate the method to be used to measure the actual daily injection pressure:
Guages on wellhead recorded be well tender and electronics on the well with tranducers

35. PROPOSED CORRECTIVE ACTION

Explain any corrective action proposed for wells penetrating the proposed injection formation or zone within the area of review.
There is no wells within the area of review.
^

36. **MAP.** Each application for a permit shall be accompanied by a map or maps showing and containing the following information:
- A. The subject area trace or tracts of land and their owners upon which the proposed enhanced recovery operations are to be conducted;
 - B. The location and designation of all input, withdrawal, or observation wells on the tract or tracts to be utilized in the enhanced recovery project.
 - 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 area.
 - 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 Oil and Gas Resources Management.

Owner/Authorized Agent (Type or Print): Charles J. Cutler
 Signature of Owner/Authorized Agent: [Handwritten Signature] Title: Pres
 Permanent Address of Home Office: 7046 Cedar Valley Rd W. Seters, OH 44287

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

SWORN to and subscribed before me this 28 day of March, 20 12.



CHRISTIN L. CUTLER
 (SEAL)
 Notary Public, State of Ohio
 My Commission Expires
 April 1, 2012

[Handwritten Signature]
 Notary Public
April 1, 2012
 Date Commission Expires

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

#1158
\$1,000.00

AM/0000911

SEE INSTRUCTIONS ON PAGE 2 (BACK)

| | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 1. I, We (applicant) <u>Hard Rock Drilling & Producing LLC</u> | | 2. Owner #: <u>8837</u> | |
| (address) <u>7646 Cedar Valley Road, West Salem, Ohio 44287</u> | | Phone #: <u>419-846-3850</u> | |
| hereby apply this date <u>21-Mar</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: Hard Rock Drilling & Producing LLC, 7646 Cedar Valley Road, West Salem, Ohio 44287 | | 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>Windham</u> | | 16" Conductor cement to surface, 11 3/4 surface to 350' cement to surface, 8 5/8 surface to 4200', 5 1/2 tubing set on packer within 100' of top of perf approximately 4000' 4000' AA | |
| 7. SECTION: _____ 8. LOT: <u>89</u> | | | |
| 9. FRACTION: _____ 10. QTR TWP: _____ | | | |
| 11. TRACT / ALLOT: _____ | | | |
| 12. WELL #: <u>41</u> | | | |
| 13. LEASE NAME: <u>Soinski</u> | | | |
| 14. PROPOSED TOTAL DEPTH: <u>4200</u> | | 22. FIRE AND MEDICAL DEPARTMENT TELEPHONE NUMBERS: (closest to well site) | |
| 15. PROPOSED GEOLOGICAL FORMATION: <u>Newburg</u> | | Fire: <u>911</u> | |
| 16. DRILLING UNIT IN ACRES (must be same as acres indicated on plat): <u>484.73</u> | | Medical: <u>911</u> | |
| 17. IF PERMITTED PREVIOUSLY: | | 23. MEANS OF INGRESS & EGRESS: | |
| API #: _____ | | Township Road: _____ | |
| OWNER: _____ | | County Road: _____ | |
| WELL #: _____ | | Municipal Road: _____ | |
| LEASE NAME: _____ | | State Highway: <u>St. Rt. 82</u> | |
| TOTAL DEPTH: _____ | | | |
| GEOLOGICAL FORMATION: _____ | | | |
| 18. IF SURFACE RIGHTS ARE OWNED BY THE OHIO DEPARTMENT OF NATURAL RESOURCES | | 24. IS THE WELL LOCATION OR PRODUCTION FACILITIES WITHIN AN URBANIZED AREA AS DEFINED BY 1509.01(Y) | |
| Division Name: _____ | | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | |
| Division Phone: _____ | | | |
| 19. LANDOWNER ROYALTY INTEREST: | | | |
| Is There An Attached List? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | | |
| Name: <u>Dale Soinski</u> | | | |
| Address: <u>10218 Silica Sand Road, Garrettsville, Ohio 44231</u> | | | |
| Name: _____ | | | |
| Address: _____ | | | |
| Name: _____ | | | |
| Address: _____ | | | |

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APR 02 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.

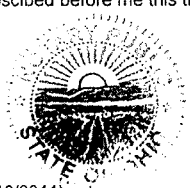
I, the undersigned, further depose and state that I am the person who has the right to drill on the tract or drilling unit and to drill into and produce from a pool and to appropriate the oil or gas that I produce therefrom either for myself or others as described in this application. And furthermore, 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 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 Oil and Gas Resources Management.

Signature of Owner/Authorized Agent Charles J. Cutter
 Name (Type or Print) Charles J. Cutter Title POPS

If signed by Authorized Agent, a certificate of appointment of agent must be on file.

Sworn to and subscribed before me this the 28 day of March, 20 12
Kristin L. Cutter
 (Notary Public)



KRISTIN L. CUTTER
 Notary Public, State of Ohio
 My Commission Expires
 April 1, 2012

April 1, 2012
 (Date Commission Expires)

Before this application can be processed, an Authority and Organization Form (Form 9), indicating the exact owner name on this form, and proof of compliance with the surety and insurance requirements of Chapter 1509.07, Ohio Revised Code, must be on file with the Division of Oil and Gas Resources Management. The signature of owner/authorized agent must correspond with the signature(s) listed on the Form 9 on file with the Division.

All information requested on this form must be provided unless exempted by the instructions below. Incomplete applications may be returned to the applicant. An application for a permit requires the following:

1. Drill, Reopen, Deepen and Plug Back an *Oil and Gas Well* (non-urban valid for 24 months; urban valid for 12 months)

- a. Original and two (2) copies of Application for a Permit (Form 1);
- b. Original and four (4) copies of an Ohio registered surveyor's plat;
- c. Original and one (1) copy of the Restoration Plan (Form 4);
- d. Reopen, deepen, plug back and convert will require three (3) copies of the Well Completion Record (Form 8);
- e. \$500.00 check or money order payable to the Division of Oil and Gas Resources Management and;
- f. If requesting an expedited review, an additional \$250 fee is required; and an Oil & Gas Affidavit (if the proposed well location is in a coal-bearing township).
- g. For an **urbanized area** new well drilling permit, the fee is as follows: \$500 for a township with a population up to 9,999; \$750 for a township with a population of 10,000 to 14,999; \$1,000 for a township with a population exceeding 15,000; and \$1,000 for all municipal corporations regardless of population.
- h. For **mandatory pooling**, an additional \$5,000.

2. Reissue or Revised Location

- a. Same as above: 1(a), (b), (c), (d), (f);
- b. \$250 check or money order payable to the Division of Oil and Gas Resources Management.

3. Plug and Abandon (valid for 24 months)

- a. Original copy of Application for a Permit (Form 1);
- b. Two (2) copies of the Ohio registered surveyor's plat originally filed, or modified, if available;
- c. Three (3) copies of the Well Completion Record (Form 8) if available; if there is no Well Completion Record on file with the Division, provide any drilling information that is available;
- d. \$250 check or money order payable to the Division of Oil and Gas Resources Management;
- e. If requesting an expedited review, an additional \$500 fee is required.

4. Drill, Reissue, Reopen, Deepen, Plug Back or Convert a Well to *Saltwater Injection*

- a. Same as above: 1(a), (b), (c), (d); and
- b. \$1,000 check or money order payable to the Division of Oil and Gas Resources Management.

5. Temporary Inactive (valid for 12 months)

- a. Original and one (1) copy of Application for a Permit (Form 1);
- b. A map, on a scale not smaller than four hundred feet to the inch, that shows the location of the well and the tank battery, that includes the latitude and longitude of the well;
- c. A written statement that the well is of future utility, and that there is a viable plan to use the well within a reasonable period of time and the well poses no threat to the health or safety of persons, property or the environment;
- d. For first application, \$100 check or money order payable to the Division of Oil and Gas Resources Management;
- e. For first renewal, \$250 check or money order payable to the Division of Oil and Gas Resources Management;
- f. For subsequent renewals, \$500 check or money order payable to the Division of Oil and Gas Resources Management; additional bonding may be required.

Item 1. Permit holder's name - as it appears on Form 9. Indicate the type of or combination of activities to be permitted.

Item 2. Indicate owner number, if the owner number is not known, please contact the Division.

Item 3. Indicate the type of well for which the application is being submitted.

Item 4. Provide name, address, city, state and zip code where the permit is to be mailed.

Items 5-11. Indicate drilling location.

Items 12-16. Provide requested information.

Item 17. Complete when application is for a permit to reopen, deepen, reissue, plug back, convert, or plug and abandon. If the well was never permitted, list "NONE" under permit #; all other wells require the permit number.

Item 18. Complete if surface rights are owned by the Ohio Department of Natural Resources.

Item 19. List names and addresses of all landowner royalty interest holders. Names must coincide with those shown on the designated unit or subject tract on the surveyor's plat or an explanation must be included. Additional sheets may be attached (overriding royalty and working interests are not required).

Item 20. Indicate type of tools that may be used.

Item 21. Indicate size and amount of casing to be used, and/or formations to be cased off.

Item 22. Indicate fire and medical department emergency telephone numbers closest to the well site.

Item 23. List all county, township, and/or municipal roads, streets and highways by name or number that applicant anticipates to use as means of ingress and egress to and from the well site.

Item 24. An "urbanized area" is a municipal corporation or a township that has an unincorporated population of more than five thousand, as defined under Section 1509.01 (Y) of the Ohio Revised Code. Notice must be provided by regular mail to the owner of each parcel of real property that is located within five hundred feet of the surface location of the well, and to either the executive authority of the municipal corporation or the board of township trustees (see 1509.06 (A) (9)).

SUPPLEMENT TO APPLICATION
PERMIT FOR AN ENHANCED RECOVERY PROJECT (Form 203)

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 an Enhanced Recovery Project (ERP) will be evaluated on the basis of an "area of review" surrounding the proposed input wells for the project. The area of review for projects in which injection of greater than two hundred barrels per day per well is proposed shall be the area circumscribed by a circle with one center point at the location of each input well and a radius of one-half mile. The area of review for projects in which a maximum injection of two hundred barrels per day per well or less is proposed shall be the area circumscribed by a circle with the center point at the location of each input well and a radius of one-quarter mile. Projects in which gas is the proposed injection fluid will have an area of review consisting of an area circumscribed by a circle with the center point at the location of each input well and a radius of one-quarter mile.

31. PROPOSED INJECTION ZONE

Geological Formation: Newburg
Injection Interval: From: ~~4050~~ 4000' AA feet to 4200
Geologic description of injection zone: 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:
1 1/4 casing surface to 600', 8 5/8 casing surface to 4000' open hole with 1500' of cement fill up.
5 1/2 tubing set on a packer at approx. 3900'. Well will be bonded long to show cement top.

B. Proposed method for testing the casing:
Pressure test to be done after cementing of longstring. A bond log to show integrity and cement top.
Pressure up on longstring after cementing before open hole.

C. Description of the proposed method for completion and operation of the injection well:
5 1/2 tubing set on a packer at approx. 3900'

D. Description of the proposed unloading, surface storage, and spill containment facilities:
The unloading area will be concrete with a concrete vault to hold any spillage. The water will be stored in 210 or 400 BBL tanks which will be placed on a concrete pad with concrete walls. This dike will be of sufficient size to contain all water in case of tank failure.
Trucks will unload through a strainer/ filter into the tank. Water will be filtered to the injection pump.

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33. PROPOSED INJECTION VOLUMES

A. Indicate the estimated amount of saltwater to be injected into the proposed injection well per day:
AVERAGE: 800 MAXIMUM: 1600

B. Indicate the method to be used to measure the actual amount of saltwater injected into the well:
Paperwork turned in by drivers. Electronics on unload station to monitor trucks & amount of water with flowmeter

34. PROPOSED INJECTION PRESSURES

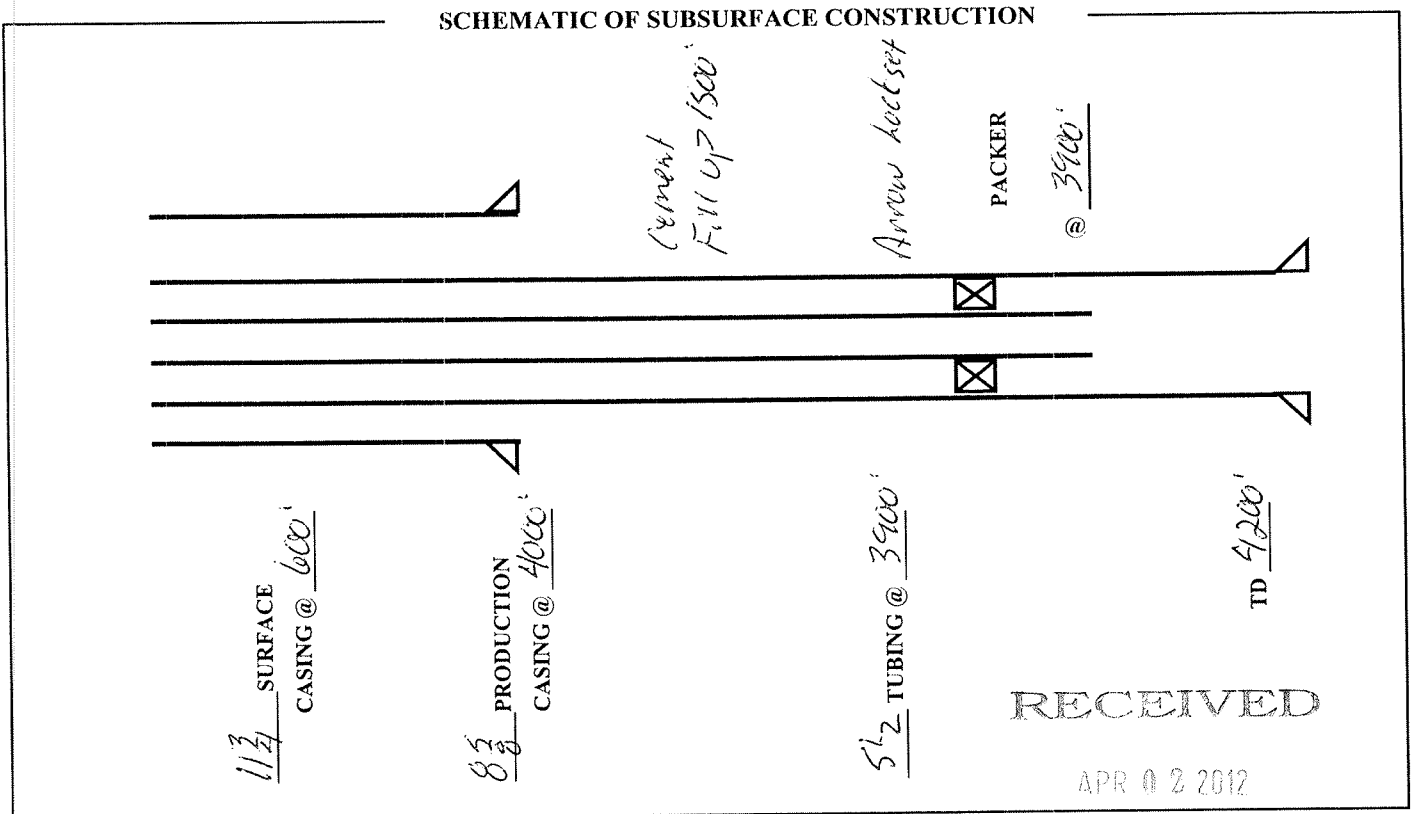
A. Indicate the estimated pressure to be used for injection of saltwater into the proposed injection well:
AVERAGE: 800 MAXIMUM: ~~1000~~ 920 psig AA

B. Indicate the method to be used to measure the actual daily injection pressure:
Gauges on wellhead recorded by well tender and electronics on the well with transducers

35. PROPOSED CORRECTIVE ACTION

Explain any corrective action proposed for wells penetrating the proposed injection formation or zone within the area of review.
There is no wells within the are of review.

36. **MAP.** Each application for a permit shall be accompanied by a map or maps showing and containing the following information:
- A. The subject area trace or tracts of land and their owners upon which the proposed enhanced recovery operations are to be conducted;
 - B. The location and designation of all input, withdrawal, or observation wells on the tract or tracts to be utilized in the enhanced recovery project.
 - 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 area.
 - 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 Oil and Gas Resources Management.

Owner/Authorized Agent (Type or Print): Charles J. Cutler
 Signature of Owner/Authorized Agent: [Signature] Title: Pres
 Permanent Address of Home Office: 7046 Cedar Valley Rd W. Salem, OH 44707

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

SWORN to and subscribed before me this 28 day of March, 2012.



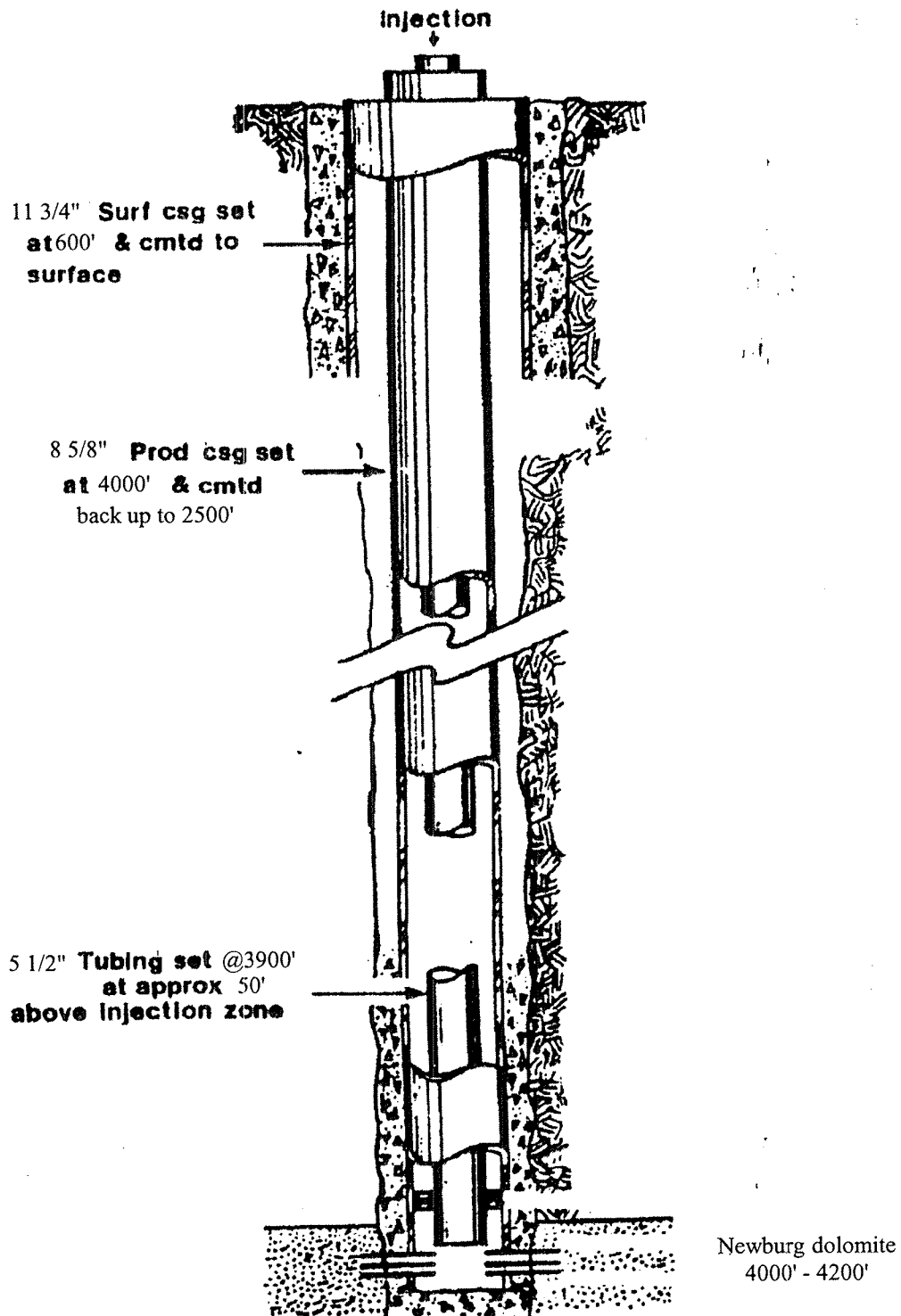
(SEAL) CHARLES J. CUTLER
 Notary Public, State of Ohio
 My Commission Expires
 April 1, 2012

[Signature]
 Notary Public
April 1, 2012
 Date Commission Expires

Portage County, Windham Twp., SWIW # 40
Soinski SWD # 4I

**Subsurface Construction
For Injection Well**

Maximum Injection Pressure: 920 psi

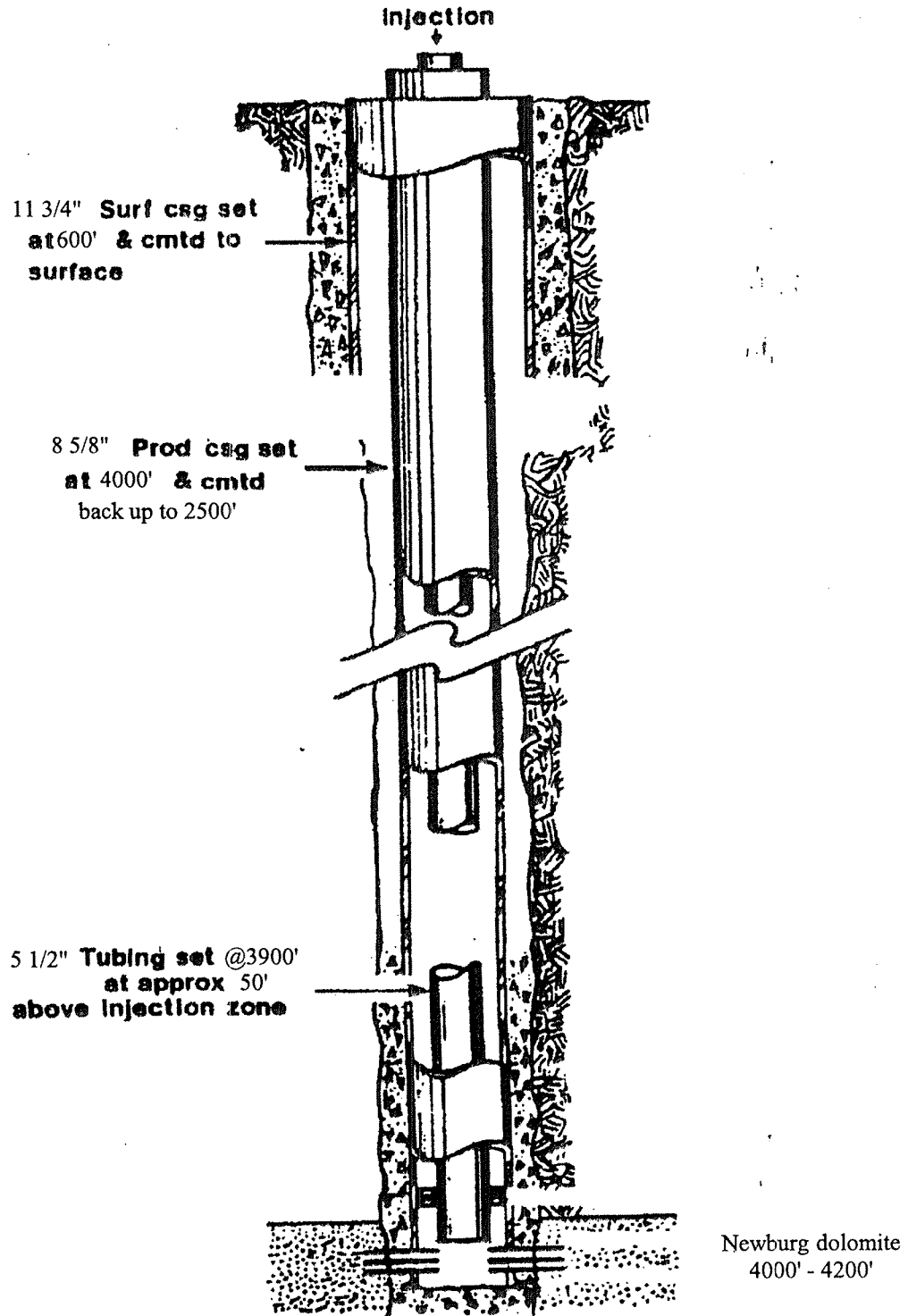


Total Depth: 4200'

Portage County, Windham Twp., SWIW # 40
Soinski SWD # 4I

**Subsurface Construction
For Injection Well**

Maximum Injection Pressure: 920 psi

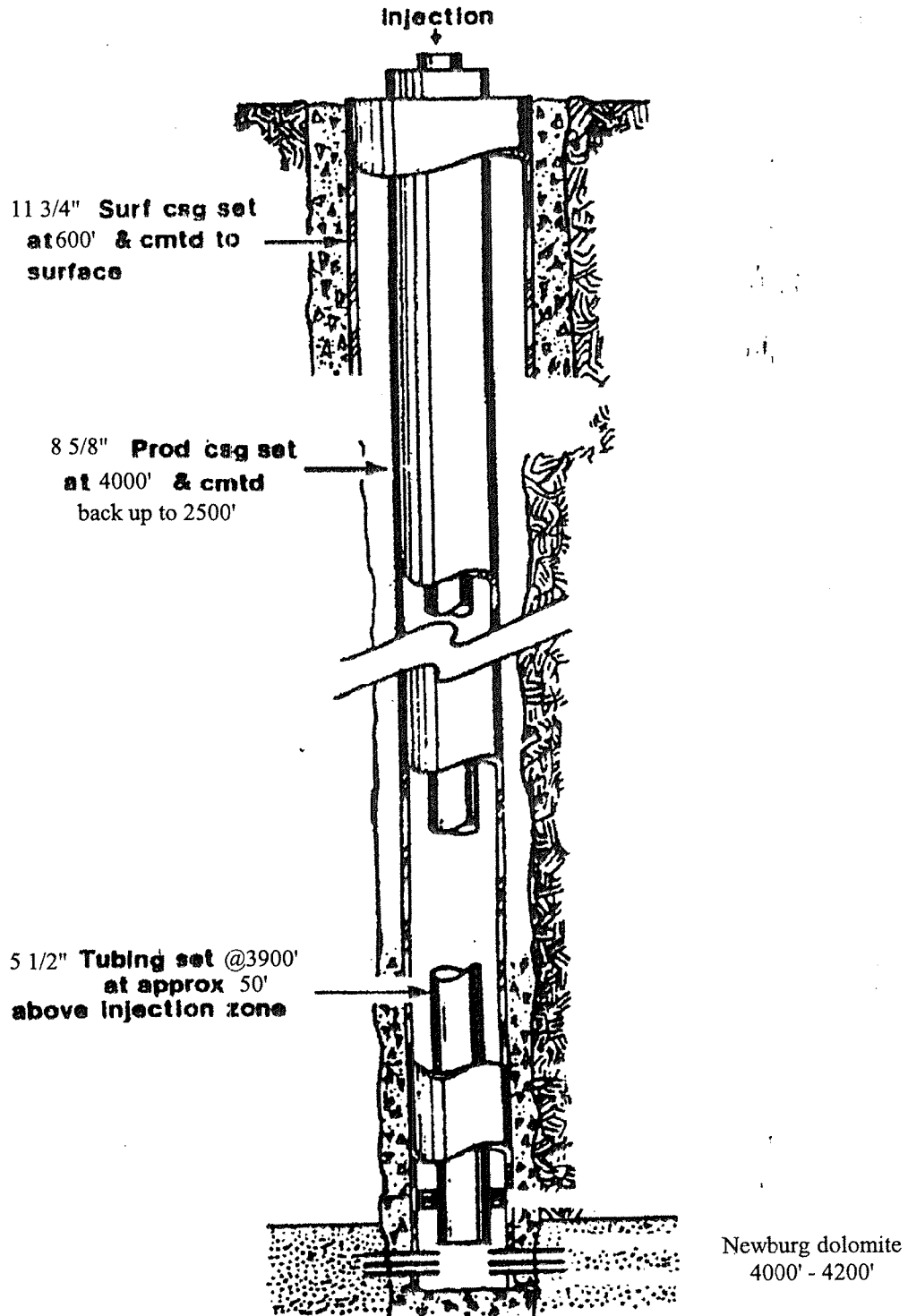


Total Depth: 4200'

Portage County, Windham Twp., SWIW # 40
Soinski SWD # 4I

**Subsurface Construction
For Injection Well**

Maximum Injection Pressure: 920 psi



Total Depth: 4200'

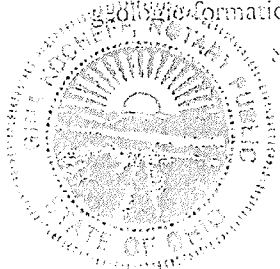
PARTIAL RELEASE OF OIL AND GAS LEASE RIGHTS

The undersigned, America's Energy Exploration, Inc. and Perry Petroleum, LLC, (collectively "Lessees") for valuable consideration the receipt of which is hereby acknowledged, do hereby release and relinquish the right to produce oil and gas from geologic formations located from the surface to the top of the Queenston Formation, in and to the following:

Oil and Gas Lease, recorded with the Recorder of Portage County, Ohio, in Official Record Instrument Number 201011014.

This Partial Release shall not affect the rights of Lessees and their successors and assigns to drill through the above described geologic formations to explore for and produce oil and gas from deeper geologic formations.

Signed on September 21, 2011.



America's Energy Exploration, Inc.

By: [Signature]

Its: [Signature]

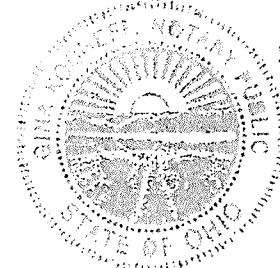
STATE OF OHIO,
COUNTY OF Portage, SS:

The foregoing instrument was acknowledged before me this 21th day of September 2011 by Cynthia L. Covert, President of America's Energy Exploration, Inc., an Ohio corporation, on behalf of the corporation.

Notary Public, State of Ohio
My Commission Expires 2-26-2014

[Signature]
Notary Public

Signed on September 21, 2011.



Perry Petroleum, LLC

By: [Signature]

Its: [Signature]

STATE OF OHIO,
COUNTY OF Portage, SS:

The foregoing instrument was acknowledged before me this 21th day of September 2011 by Perry Pipes, manager of Perry Petroleum, LLC, an Ohio limited liability company, on behalf of the company.

Notary Public, State of Ohio
My Commission Expires 2-26-2014

[Signature]
Notary Public

This Instrument Prepared By: