<table>
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**Record of Conversation**

27/2/2012 - Need SWIM affidavit, restoration plan, footer depth, and Summary report for SWIM.

3/8/12 - Receive requested documents.
APPLICATION NO.  0000706
CONAME   DT ATHA INC
WELL NAME/NO.  FROST M
COUNTY    9 ATHENS

DATE APPLICATION REC'D

PERMIT FEE AND CHECK NO.  $1,000.00
RUSH AMOUNT     RUSH CHECK NO.     $0.00     0
APPLICATION ENTERED
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:
Proof Sheet

APPL NUMBER: sAMY0000708
OWNER NUMBER:
7077
OWNER NAME: D TATHA INC
EXISTING WELL:

API PERMIT NO:
54009237610001
APPL TYPE:
CS
TYPE OF WELL:
SWD
VARIANCE REQUEST:
FROST M
WELL NAME:
1 (SWMD # 9)
WELL NUMBER:
3810
PREV/PROPOSED TD:
0
DRILL UNIT ACRES:

TYPE OF TOOL:
SERV
WELL CLASS:

FIRE PHONE:
(740) 667-3343
MEDICAL PHONE:
(740) 592-3247
COUNTY CODE:
9
COUNTY NAME:
ATHENS
COAL (Y=1/N=0):
-1
CIVIL TOWNSHIP:
ROME
SURF QUAD:
CUTLER
Nad 27 SURF ORIG X:
2,188,405
Nad 27 SURF ORIG Y:
471,070
GROUND ELEVATION:
612
SURF SEC:
32
SURF LOT:

SURF QTR TWP:
SURF ALLOT:
SURF TRACT:
SURF FRACTION:

URBANIZED AREA?:

NAME:

DISPOSAL PLAN 1:
ND
DISPOSAL PLAN 2:

DISPOSAL PLAN 3:

DISPOSAL PLAN 4:

DISPOSAL PLAN 5:

MP Check #:
0

PROPOSED FORMATIONS
ONANDAGA LS; HURON SHALE
TARG CIVIL TWP:
TARG QUAD:
Nad 27 TARG ORIG X:
Nad 27 TARG ORIG Y:
TARG ELEV:
0
TARG SECTION:
TARG LOT:
TARG QTR TWP:
TARG ALLOT:
TARG TRACT:
TARG FRACTION:

Monday, January 30, 2012
Page 5 of 8
August 1, 2012

Mr. David T. Atha
D.T. Atha, Inc.
P.O Box 320
Sugar Grove, OH 43155


Dear Mr. Arthur:

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
D.T. Atha, Inc., P.O. Box 320, Sugar Grove, Ohio (740) 746-8567 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 SWIW#9 well, Permit #3761, Section 32, Rome Township, Athens County, Ohio. The proposed well will inject into Onandaga Limestone and Huron Shale at depths of 2724 to 3810 feet. The average injection is estimated to be 1200 barrels per day. The maximum injection pressure is estimated to be 630 psi. Further information can be obtained by contacting D.T. Atha, Inc. 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: Jon Scott, Mineral Resources Inspector
FROM: Andrew Adgate, Geologist
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: D T Atha Inc.
WELL NAME & NUMBER: Frost M #1
PERMIT NUMBER: Conversion of existing well, SWIW #9
LOCATION: 1350' SL & 580' WL of Sec. 32, Rome Twp., Athens County
PROPOSED INJECTION ZONE: Oriskany sandstone and Huron shale
DATE RECEIVED: March 6, 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.
CMMT Casing Condition, Weight and Cement Basket

CONNECTION | WEIGHT
BOC | 0 TOC | 0 DT_CM | Duration | WITNESSED
CMT_CON
CLASS_CMT:
CLASS_CMT2:
Cement Comments
Centralizer Wiper Plug
Shoe Collar Other

INSPECTOR STEPHEN OCHS
SACKS YIELD
SACKS2 GEL_VISC

CMMT Casing Condition, Weight and Cement Basket

CONNECTION | WEIGHT
BOC | 0 TOC | 0 DT_CM | Duration | WITNESSED
CMT_CON
CLASS_CMT:
CLASS_CMT2:
Cement Comments
Centralizer Wiper Plug
Shoe Collar Other

INSPECTOR STEPHEN OCHS
SACKS YIELD
SACKS2 GEL_VISC
Production Casing

Set Dt: 3/22/2007

CMMT Casing Condition, Weight and Cement Basket

**CONDITION**  **WEIGHT**  
BOC  0 TOC  0 DT_CM  Duration  WITNESSED

CMT_CON
CLASS_CMT: Unknown
CLASS_CMT2:
Cement Comments:
Centralizer Wiper Plug
Shoe Collar Other

INSPECTOR
SACKS  200  YIELD
SACKS2  GEL_VISC  0

---

Surface Casing Fiel

Set Dt: 3/22/2007

CMMT Casing Condition, Weight and Cement Basket

**CONDITION**  **WEIGHT**  
BOC  0 TOC  0 DT_CM  3/22/2007  WITNESSED

CMT_CON  FORMATION CEMENTING, INC.
CLASS_CMT: Class A Cement
CLASS_CMT2: Class A Cement

Cement Comments:
3% CaCl; 4% gel; 175 lbs LCM
Centralizer Wiper Plug
Shoe Collar Other
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<th>BOT</th>
<th>METH</th>
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<td>3600</td>
<td>3607</td>
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<td>Yes</td>
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<td>GAS</td>
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</table>
Ohio EPA Division of Drinking and Ground Waters has completed its review of nine (9) 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.

None of the reviewed Class II permits are within 2,000 feet of a public water system well or within a source water protection area. However, we do have a couple overarching comments concerning the surface casing of the well construction. More specifically, our review assessed the placement of surface casing and cement relative to the lowest most USDW. Ohio EPA would recommend that a class A cement with appropriate additives be specified as well as the use of centralizers to assure an adequate bond.

Attachment A is a summary of our comments concerning each permit application. Please contact Chuck Lowe of my staff at 614-644-2752 if you have questions on the specific comments.
Attachment A: ODNR Permit Review Summary

9 permits reviewed, including:

- 6 new drills; and,
- 3 conversions of existing wells.

None of the Class II SWDWs reviewed are within 2,000 feet of a PWS well or within a protection area.

New Wells

1. Muskingum Co., Jackson Twp. OOGC #1 Black Run Disposal Well
   - Surface casing depth and amount of cement appear adequate. The type of cement, and number and location of centralizers used on the surface casing should to be specified. Lack of this information limits our review.
   - The injection zone is the Knox through the Mt. Simon; however, completion schematic shows only the Mt. Simon as perforated. The injection zone perforations should be corrected to reflect the revised injection zone.
   - Well surface construction appears sufficient.

   - Surface casing depth and amount of cement appear adequate. The permit to drill specifies 350 sacks of superlite cement – Ohio EPA recommends that Class A be used instead. The number of centralizers and their location should be specified. The lack of this information limits our review.
   - The well is located outside of the Youngstown area of concern.
   - Well surface construction appears sufficient.

3. Mahoning Co., Youngstown Twp. D&L #8 Mohawk Meenchon
   - Well construction comments are the same as for the #7 Mohawk Printup well.
   - The #8 Mohawk Meenchon well is within the AOR that has experienced seismic activity. This should be evaluated in siting, construction and injection requirements.

4. Muskingum Co., Union Twp. 1960 Well Services #1 C. Goff
   - Surface casing and amount of cement appears adequate. The type of cement, and number and location of centralizers used on the surface casing should to be specified. Lack of this information limits our review.
   - The plat map shows two small wetland areas that are adjacent to the well and offloading pad. The permittee should be made aware of associated regulatory requirements.
   - Well surface construction appears sufficient.

5. Trumbull Co., Weathersfield Twp. American Water Mgt. #1 AWM
   - Both surface and injection casing depths and cement appear adequate. The type of cement, and number and location of centralizers used on the surface casing should to be specified. Lack of this information limits our review.
   - Open hole disposal into the "Newburg". There are sixteen existing "Clinton" wells within the AOR that are likely un-cemented above the "Clinton" cement top and the base of the surface casing. These well bores could act as a conduit for fluid migration (i.e. either brine or brine displacing formation waters).
6. Trumbull Co., Weathersfield Twp. American Water Mgt. #2 AWM
   - Surface casing depth appears adequate and cemented to surface. The type of cement, and number and location of centralizers used on the surface casing should to be specified. Lack of this information limits our review.
   - The injection casing cement top is shown to surface on the diagram, but states the cement top is at 4000 feet. This should be clarified because the plat map show 112 feet between the two disposal wells (same concerns as outlined in #5).

**Converted Wells**

1. Athens Co., Rome Twp., D.T. Atha #1 M. Frost
   - Surface casing depth appears adequate; however, no inspectors report to verify cement to surface (315 sacks used on completion report). The surface cement should be verified.
   - Operator proposes to squeeze off the existing perfs in the Berea and Ohio Shale, but doesn't show the proposed injection zone perfs.
   - Injection casing and tubing construction depths don't agree with the well schematic diagram. This should be resolved.

2. Knox Co., Morgan Twp., Knox Energy #2 Harstine Trust
   - Surface casing and cement job appear adequate.

3. Morgan Co., Marion Twp., Broad Street Energy #102 Cook
   - Surface casing and cement volume (90 sacks) appear adequate.
   - Well surface construction appears adequate.
Geologic Review for Class II Wells

Application No: aAMY0000706
Well Type: SWD (water injection-disposal)
Proposed TD: 3,810 feet
Proposed Formation: Ohio Shale-Oriskany Sandstone
Athens County, Rome Township

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
- The gravity Bouguer Anomaly map shows the permit application is located in a gravity low.

Gravity Free Air
- The free air map shows the permit application is located in a gravity low.

Magnetic First Derivative
- There are two northeast-southwest magnetic high trends apparent on the Magnetic First Derivative map. The first of these magnetic high trends is located approximately 10 miles southwest of aAMY0000706 and trends approximately N 40° E; the second is approximately 8 miles directly south of aAMY0000706 and trends N 58° E.
- A northeast-southwest magnetic low trend is about 16 mile northeast of aAMY0000706 and strikes N48° E.

Magnetic Second Derivative
- There is a northeast-southwest trending magnetic high located about 8 miles south of the permit application and trends N 58° E.

Magnetic Reduce Dipole
- The Magnetic Reduced Dipole Map shows a northeast-southwest trending magnetic high approximately 6 mile south of aAMY0000706. Another trend is located 10 miles southwest of the permit application.

Precambrian Structure from PG-23
- Nothing of note.

Knox Structure
- The appears to be some potential folding 10 miles south of the permit application.

Trenton Structure
- Nothing of note.

EGSP Onondaga Structure
- Small variation in strike occur along contours of the EGSP Onondaga map. These variations do not coincide with any known faults; however, these variations occur with a northwest-southeast trend.

MRCSP Onondaga Structure
- Nothing of note.

EGSP Berea Structure
• Small variation in strike occur along contours of the EGSP Berea map. These variations do not coincide with any known faults. These variations occur with a northwest-southeast trend.

Mississippian/Pennsylvanian Unconformity Surface
• The Mississippian-Pennsylvanian unconformity surface indicates no faults, but changes in strike are consistent with trends observed on both the EGSP Onondaga and Berea maps.

Middle Kittanning Coal Structure
• The Middle Kittanning coal structure indicates no faults, but changes in strike are consistent with trends observed on both the EGSP Onondaga and Berea maps.

Upper Freeport Coal Structure
• Nothing of note.

Pittsburgh Coal Structure
• Nothing of note.

Bedrock Geology
• The top of bedrock for the permit application is the Upper Pennsylvanian Monongahela Group.

Bedrock Topography
• The bedrock topography map indicates the permit application is mapped in a northwest-southeast trending topographic low.

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
• Three main lineament trends are in the area of the permit application. Less than 1 mile east of the permit application, a lineament trends Northwest-southeast.
• Located just over 1 mile northeast is a northeast-southwest trending lineament.
• Less than 2 mile to the northwest, a north-northwest trending lineament.

Mason Lineament
• One mile southwest of the permit application, a lineament strikes at N 35° W. This lineament is consistent with the northwest southeast trending topographic low in the area.
• Approximately 6 miles due west of the permit application is a lineament which strikes at N 60° W.
• Approximately 10 miles due east of the proposed well location a lineament strikes at N 5° W.

Oil and gas fields
• Production in the study area is in the Pennsylvanian, Berea, and Devonian Shale. The nearest production is in the Berea. To the south, many production areas have an extent parallel to Mason’s (1999) lineaments. Some extents producing fields also have extents which coincide with EGSP LANDSAT lineaments (Gray and others, 1982).

Earthquakes
• The closest earthquake occurred approximately 20 miles southwest of the proposed well location. The earthquake occurred in 1926 and had a magnitude of 3.6.

Injection Wells
• There are 9 SWD (active salt water disposal) wells within area that are injecting in the Queenston Shale, Ohio Shale, Bedford Shale, and Berea Sandstone. The nearest injection well is a SWD well approximately 3 miles west of the permit application.
• There 7 ISWD (inactive salt water disposal) wells. These wells injected in to the Queenston Shale, Ohio Shale, Bedford Shale, and Berea Sandstone.
• There is 1 EOR (enhanced oil recovery) well.
• There is 1 IEOR (inactive enhanced recovery) well.

To summarize, the Starr fault system is the closest known fault, and is approximately 21 mile to the northwest (Baranoski, 2002). Lineaments in the vicinity coincide with small structural variations seen in the EGSP Onondaga and Berea maps (Gray and others, 1982), oil and gas field extents, and drainage patterns. The closest earthquake occurred approximately 20 miles southwest of the proposed well location. The earthquake occurred in 1926 and had a magnitude of 3.6. There are currently 9 SWD wells injecting in the Queenston Shale, Ohio Shale, Bedford Shale, and Berea Sandstone.
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<th>Permit Number</th>
<th>Casing/Cement Program</th>
<th>Well log and/or Method of Plug</th>
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<tbody>
<tr>
<td>Oriskany/Ohio Shale</td>
<td>Proposed well/Conversion. DTD= 3800’; Casing &amp; tubing: 11.75” @ 40’; 8.625” @ 1330 with 350 sacks; 4.5” @ 3772’ with 350 sacks. Calculated cement fill-up+1813’. TOC= 1342’ by CBL.</td>
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<tr>
<td>22299 Oriskany/Ohio Shale</td>
<td>DTD= 2150’; Casing and Tubing: 7” @ 250’ -circulated to surface; 4 ¼” with 60 sacks with 1741’ left in well. Note: Show of gas at 1703’-1711’ (Berea). Plugged and abandoned (6-19-84); Reissue plug &amp; abandon (7-12-84); permit expired (01-08-85).</td>
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<tr>
<td>23764 Oriskany/Ohio Shale</td>
<td>DTD= 4015’; Casing &amp; Tubing: 11 ¾” @ 45’; 8 5/8” at 1466’ with 368 sacks; 4 ¼” @ 3963’ with 200 sacks. Calculated fill-up is 1036’. TOC= 2927’</td>
<td></td>
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<tr>
<td>Berea S 20649</td>
<td>TD = 1505 ½’; Surveyed on 7-10-43, abandoned on 3-3-44. Plugging details-unreadable.</td>
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<tr>
<td>Maxton Sand 20812</td>
<td>DT= 1000’; Plugged (08-20-47) as follows: &quot;Filled through the sand with red clay set wood F clay @ 890’ and F clay -filled @ 100’ with clay and sand plugging; Bucyed (?) hole @ 100’ and filled to top.</td>
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<tr>
<td>Ohio Shale 22434</td>
<td>Permit expired.</td>
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<tr>
<td>Oriskany/Ohio Shale 23761</td>
<td>DTD= 3800’; Casing &amp; Tubing: 11.75” @ 40’; 8.625” @ 1330 with 350 sacks; 4.5” with 200 sacks; Change of owner on 8-8-09.</td>
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<tr>
<td>61352</td>
<td>No data. Shallow well.</td>
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Note: Proposed injection well should be circumscribed with appropriate radius and all wells clearly labeled and identified. A legend depicting color code is required.
61353  No data. Shallow well.

20604  TD = 1039', Casing record- 81/4" @ 240'; 6 5/8" @ 540'; 5 3/16" @ 905'. Shallow well.

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

D T Ahna
Dave Ahna

Sincerely,

[Redacted]

I believe we got our mix together this time. Please find enclosed a draft Water Reclamation Well permit application to cover the M-F east site (341917/439217) and a revised Support Permit.

Dear Tom,

Tom Tomask

March 1, 2012

Columbus, Ohio 43229-6993

Building M-3

2046 Morse Road

Division of Natural Resources Management

Ohio Department of Natural Resources

Dear Tom,

[Redacted]
Ohio Department of Natural Resources
Division of Mineral Resource Management
2045 Morse Road
Building H-3
Columbus, Ohio 43229-6693

January 27, 2012

Mr. Tom Tomastik

Dear Tom,

On behalf of D.T. Atha, Inc. enclosed find a permit application to convert the M. Frost #1 (PN 3751/Athens/Rome) to Class II disposal. Please note that this well was originally permitted by Mid-Con Petroleum Co., Inc. (now no longer in business). I am unable to find a copy of the restoration plan, and Mid-Con is no more. There should be one on file at the Division, and nothing has changed (as far as restoration is concerned) since the well was first completed. The balance of the paperwork should be in order.

It is my understanding that there is a moratorium on all new disposal wells. Nonetheless I want to be "on the list" for processing this application. Should you have any questions or any insights — I am eagerly awaiting your response.

Sincerely,

[Signature]

Dave Atha
D.T. Atha, Inc.
encld
## 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) 265-6533

### See Instructions on Page 2 (Back)

<table>
<thead>
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<th>D.T. Atha, Inc., P.O. Box 320, Sugar Grove, Ohio 43155</th>
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### 3. Type of Well:

| □ Oil & Gas | □ Stratigraphic Test | □ No Disposal* | □ Gas Storage |
| □ Solution Mining | □ No Injection* | □ Water Supply | □ Other (explain): |

*If checked, select appropriate box below

### 4. Mail Permit To:

D.T. Atha, Inc., P.O. Box 320, Sugar Grove, OH 43155

### 5. County:

Athens

### 6. Civil Township:

Rome

### 7. Section:

31-31-31  
Lot: 8

### 9. Fraction:

10Q or TRW:

### 11. Tract / Allot:

1

### 12. WELD #:

1

### 13. Lease Name:

M. Frost

### 14. Proposed Total Depth:

3810'

### 15. Proposed Geological Formation:

Onandaga Ls, Huron Shale

### 16. Drilling Unit in Acres (must be same as acres indicated on plat):


### 17. If Permitted Previously:

**API #:** 34-009-3761-00-00  
**Owner:** D.T. Atha, Inc.  
**WELD #:**  
**Lease Name:** M. Frost  
**Total Depth:** 4000'

### 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?**  
□ Yes  □ No

| Name: Alleena May Frost  
| Address: 7901 St Rd 144, Knightsville, OH 43173 |
| Name:  
| Address: |

### 20. Type of Tools:

□ Cable  
□ Cable / Air Rotary  
□ Cable / Fluid Rotary  
□ Cable / Air / Fluid Rotary

### 21. Proposed Casing Program:

8.625" @ 1330' cemented to surface; 4.5" casing set @ 3772' cement top @ 3772'

### 22. Fire and Medical Department Telephone Numbers:

**Fire:** 740-667-3343  
**Medical:** 740-592-3247

### 23. Means of Ingress & Egress:

Township Road:  
County Road: Municipal Road:  
State Highway: St RT 144

### 24. Is the Well Location or Production Facilities Within an Urbanized Area as Defined by 1509.01(Y)?

□ Yes  □ No

---

**Received**  
San 30 2012

**Division of Oil and Gas Resources Management**

**Signature of Owner/Authorized Agent**  
David T. Atha  
Title: President

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

Sworn to and subscribed before me this 19th day of January 2012  

William H. Atha  
(Notary Public)

November 12, 2015  
(Date Commission Expires)
well construction and operation

A. Description of proposed testing and cement program for new wells or of the casing consisting or sealing with preparedacky for testing well to be 8.625" x 24.500 x 1.34" cemented with 1.342 w/c ratio.

B. Proposed method for testing the casing:

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

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

---

Proposed Injection Volumes

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

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

Proposed Injection Pressures

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

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

Proposed Corrective Action

Explain any corrective action proposed for wells operating the proposed injection facilities within the area of review.
**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

<table>
<thead>
<tr>
<th>1. DATE OF APPLICATION</th>
<th>2/7/12</th>
</tr>
</thead>
<tbody>
<tr>
<td>2. OWNER NAME, ADDRESS, &amp; TELEPHONE NO.</td>
<td>D. T. ATHA, INC. P.O. BOX 220 SUGAR GROVE, OH 43155 740-746-8567</td>
</tr>
<tr>
<td>3. API #:</td>
<td>34-009-2-3761-00-00</td>
</tr>
<tr>
<td>4. WELL #:</td>
<td>1</td>
</tr>
<tr>
<td>5. LEASE NAME</td>
<td>M. FROST</td>
</tr>
<tr>
<td>6. PROPERTY OWNER</td>
<td>MELVIN FROST</td>
</tr>
<tr>
<td>7. COUNTY</td>
<td>ATHERTON</td>
</tr>
<tr>
<td>8. CIVIL TOWNSHIP</td>
<td>ROME</td>
</tr>
<tr>
<td>9. SECTION</td>
<td>10. LOT</td>
</tr>
<tr>
<td>10. TYPE OF WELL</td>
<td>☐ Oil ☐ Gas ☐ Other</td>
</tr>
<tr>
<td>11. CURRENT LAND USE:</td>
<td>☐ Cropland ☐ Commercial ☐ Pasture ☐ Commercial ☐ Wetlands ☐ Recreational ☐ Residential ☐ Industrial ☐ Unclaimed strip mine ☐ Woodland</td>
</tr>
<tr>
<td>12. SLOPE GRADIENT &amp; LENGTH DETERMINED FROM:</td>
<td>☐ U.S. Geological Survey Topographical Maps ☐ Other: (explain)</td>
</tr>
<tr>
<td>13. TYPE OF FALL VEGETABLE COVER:</td>
<td>☐ Little or no vegetable cover ☐ Start grasses ☐ Tall weeds or short brush (1 to 2 ft.) ☐ Brush or bushes (2 to 6 ft.) ☐ Agricultural crops ☐ Trees with sparse low brush ☐ Trees with dense low brush</td>
</tr>
<tr>
<td>14. SOIL &amp; RESOILING MATERIAL AT WELLSITE:</td>
<td>☐ Stockpile and protect spoil to be used when preparing seedbed ☐ Use of soil additives (e.g., lime, fertilizer) ☐ No resoling planned ☐ Proposed alternative</td>
</tr>
<tr>
<td>15. DISPOSAL PLAN FOR TREES AND TREE STUMPS:</td>
<td>☐ No trees disturbed ☐ Haul to landfill ☐ Cut into firewood ☐ Sell to lumber ☐ Bury with landowner’s approval company ☐ Mulch small trees and branches, erosion control ☐ Use for wildlife habitat with landowner approval ☐ Proposed alternative</td>
</tr>
<tr>
<td>16. SURFACE AND SUBSURFACE DRAINAGE FACILITIES:</td>
<td>☐ No existing drainage facilities for removal of surface and/ or subsurface water ☐ Tile drainage system underlying land to be disturbed ☐ Drain pipe(s) underlying land to be disturbed ☐ Surface drainage facilities on land to be disturbed</td>
</tr>
<tr>
<td>17. STEEPEST SLOPE GRADIENT CROSSING SITE:</td>
<td>☐ 0 to 2% ☐ 8.1 to 10% ☐ 10.1 to 24% ☐ greater than 24%</td>
</tr>
<tr>
<td>18. LENGTH OF STEEPEST SLOPE CROSSING SITE:</td>
<td>☐ 1 to 100 ft. ☐ 101 to 200 ft. ☐ 201 to 400 ft. ☐ greater than 400 ft.</td>
</tr>
<tr>
<td>19. RESTORATION OF DRILLING PITS:</td>
<td>☐ Haul drilling fluids and fill pits ☐ Use steel circulating tanks ☐ Proposed alternative</td>
</tr>
<tr>
<td>20. BACKFILLING AND GRADING AT SITE:</td>
<td>☐ Construct diversions channelled to naturally established drainage systems ☐ Construct terraces across slopes ☐ Grade to approximate original contour ☐ Grade to minimize erosion &amp; control surface runoff ☐ Proposed alternative</td>
</tr>
<tr>
<td>21. VEGETATIVE COVER TO BE ESTABLISHED AT SITE:</td>
<td>☐ Seeding plan ☐ Sed ☐ Agricultural crops ☐ Trees and/or Brush ☐ Proposed alternative</td>
</tr>
<tr>
<td>22. ADDITIONAL HOLES:</td>
<td>☐ Rat/Horse, if used, will be plugged</td>
</tr>
<tr>
<td>23. PROPOSED OR CURRENT LENGTH OF ACCESS ROAD:</td>
<td>☐ 100 ft. or less ☐ 101 to 500 ft. ☐ 501 to 1500 ft. ☐ greater than 1500 ft.</td>
</tr>
<tr>
<td>24. CURRENT LAND USE OF PATH OF ACCESS ROAD:</td>
<td>☐ Cropland ☐ Pasture ☐ Commercial ☐ Tile land ☐ Wetlands ☐ Recreational ☐ Industrial ☐ Residential ☐ Unclaimed strip mine ☐ Woodland</td>
</tr>
</tbody>
</table>

**PITS MUST BE FILLED WITHIN TWO MONTHS AFTER COMMENCEMENT OF THE WELL AND WITHIN 120 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 A PENALTY OF CRIMINAL FINES NOT LESS THAN $100.00 NOR MORE THAN $2,000.00 OR CIVIL PENALTIES NOT LESS THAN $4,000.00.

DNR-744.7002 (Revised 10/2011)
**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: 7/13/23

2. OWNER NAME, ADDRESS, & TELEPHONE NO.: ORIETTA PETRANIA JNC
P.O. Box 310
SUGAR GROVE, OH 43155
740-746-8367

3. API #: 24-009-2-3761-00-00

4. WELL #: 1

5. LEASE NAME: W. FRASER

6. PROPERTY OWNER: W. FRASER

7. COUNTY: ATHENS

8. CIVIL TOWNSHIP: RODE

9. SECTION: 1

10. LOT: 1

11. CURRENT LAND USE:
- Cropland
- Commercial
- Pasture
- Recreational
- Wetlands
- Industrial
- Residential
- Unreclaimed strip mine
- Woodland: Broadleaf
- Needlleaf

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

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

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

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

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

17. TYPE OF WELL:
- Oil
- Gas
- Other

18. STEEPEST SLOPE GRADIENT CROSSING SITE:
- 0 to 2%
- 2.1 to 8%
- 10.1 to 24%
- Greater than 24%

19. LENGTH OF STEEPEST SLOPE CROSSING SITE:
- 1 to 100 ft.
- 101 to 200 ft.
- Greater than 400 ft.

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

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

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

23. ADDITIONAL HOLES:
- Rad/Man, if used, will be plugged

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

25. CURRENT LAND USE OF PATH OF ACCESS ROAD:
- Cropland
- Pasture
- Commercial
- Wetlands
- Industrial
- Residential
- Unreclaimed strip mine
- Woodland: Broadleaf
- Needlleaf

**PITS MUST BE FILLED WITHIN TWO MONTHS AFTER COMPLETION OF THE WELL AND WITHIN FURTHER 60 DAYS AFTER COMPLETION OF THE WELL IN AN URBANIZED AREA.**

REQUIRED BY SECTION 159.08 (A)(10), OHIO REVISED CODE – FAILURE TO SUBMIT MAY RESULT IN A PENALTY OF CRIMINAL FINES NOT LESS THAN $100.00 NOR MORE THAN $2,000.00 OR CIVIL PENALTIES NOT LESS THAN $4,000.00.

DNAT-7447002 (Revised 10/20/11)

Page 1 of 2
Subsurface Construction
For Injection Well

Maximum Injection Pressure: 630 psi

8 5/8" Surf csg set at 1237' & cmtd to surface

4 1/2" Prod csg set at 3772' & cmtd to 1342'

2 3/4" Tubing set @ 2760' at approx 24' above injection zone

Onandaga Limestone & Huron Shale
2724' to 3810'

Total Depth: 3810'

Athens County, Rome Twp.,
SWIW #9 Frost M #1