

APPLICATION CHECKLIST

Adkins Co, SWW# 9, Permit # 3761
M. Frost #1

| | Date | Initials |
|---|--------------------|-----------|
| Enter on Agenda | | |
| Completeness Review | <i>1/30/12</i> | <i>DF</i> |
| Date - Time Stamp | <i>2/6/12</i> | <i>DF</i> |
| Area of Review | <i>1/30/12</i> | <i>DF</i> |
| Site Evaluation | <i>2/6/12</i> | <i>DF</i> |
| Permitting Section | | |
| Memo to Inspector | <i>1/30/12</i> | <i>DF</i> |
| Public Notice | <i>7-24-12</i> | <i>DF</i> |
| Letter | <i>08-01-12</i> | <i>DF</i> |
| Date Run | | |
| 15 Days | | |
| Review Public Notice | | <i>DF</i> |
| Affidavit of Notification | <i>3/6/12</i> | <i>DF</i> |
| Objections Received | Yes _____ No _____ | <i>DF</i> |
| Public Hearing Date | | <i>DF</i> |
| Chief's Order, if Required | | <i>DF</i> |
| Schematic | <i>N/A</i> | <i>DF</i> |
| Plot on Map | <i>2/6/12</i> | <i>DF</i> |
| Review by Geologist | | <i>DF</i> |
| Permit Conditions (Same date as permit) | | <i>DF</i> |
| Enter on Computer (Same or later date than Chief's Order) | | <i>DF</i> |
| Enter on Master List | <i>2/6/12</i> | <i>DF</i> |
| EPA Form | <i>2/6/12</i> | <i>DF</i> |
| Mail Permit | | <i>DF</i> |
| Update Agenda | | <i>DF</i> |
| File | | <i>DF</i> |

RECORD OF CONVERSATION

2/7/2012 - Need SWW affidavit, restoration plan, packer depth, and cement record for well in ADK

3/6/12 - Received requested documents

DAILY ROUTE SLIP

APPLICATION NO. aAMY0000706

TYPE: Convert SWIW

CONAME D T ATHA INC

API 34009237610000

WELL NAME /NO. FROST M

1

COUNTY 9 ATHENS

INITIALS

DATE

DATE APPLICATION REC'D

AM

1/30/2012

PERMIT FEE AND CHECK NO.

\$1,000.00

7413

RUSH AMOUNT RUSH CHECK NO.

\$0.00

0

APPLICATION ENTERED

AM

1/30/2012

APPLICATIONS AND PLATS SENT FOR MINE APPROVAL

AM

COAL APPROVAL RECEIVED

AM

OIL/GAS AFFIDAVIT REC'D

AM

URBANIZED AREA NOTIFICATION SENT

AM

URBANIZED AREA NOTIFICATION SENT TO INSPECTOR/REC'D BACK

AM

URBAN MAP REVIEW

AM

SAMPLES: YES ___/SPECIAL AREAS

AM

GEOLOGIST APPROVAL

AM

DATA ENTRY /ISSUED

AM

PERMIT: TAKEN ___ MAILED ___

AM

FAX TO: _____

FINAL MAP CHECK

COMMENTS: _____

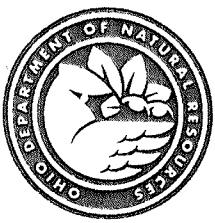
Proof Sheet

| | | | |
|--------------------|----------------|------------------|--------------------------|
| APPL NUMBER | aAMY0000706 | URBANIZED AREA ? | <input type="checkbox"/> |
| OWNER NUMBER | 7077 | NAME | |
| OWNER NAME | D T ATHA INC | | |
| EXISTING WELL | -1 | | |
| API PERMIT NO | 34009237610000 | DISPOSAL PLAN 1 | ND |
| APPL TYPE | CS | DISPOSAL PLAN 2 | |
| TYPE OF WELL | SWD | DISPOSAL PLAN 3 | |
| VARIANCE REQUEST | | DISPOSAL PLAN 4 | |
| WELL NAME | FROST M | DISPOSAL PLAN 5 | |
| WELL NUMBER | 1 (SWW # 9) | MP Check # | 0 |
| PREV/PROPOSED TD | 3810 | | |
| DRILL UNIT ACRES | 0 | | |
| 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 | | | |

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 | |



Ohio Department of Natural Resources

JOHN R. KASICH, GOVERNOR

JAMES ZEHRINGER, DIRECTOR

Richard J. Simmers, Chief
Division of Oil and Gas Resources Management
2045 Morse Road, Bldg. F-2
Columbus, OH 43229-6693
Phone (614) 265-6922 Fax (614) 265-6910

August 1, 2012

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

RE: Public Notification for SWIW application for Athens, Rome Twp., Permit #3761, D.T. Atha, Inc., Frost M #1 injection well.

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,

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

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

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 AA
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.

FLD *Hole 1 Field Entry Bot 65 Diam 17 Top 0 LENGTH

Set Dt SHOT/RIP: CSG_REC'D:

CMMT Casing Condition,
Weight and Cement Basket

CONDITION WEIGHT
BOC 0 TOC 0 DT_CM Duration WITNESSED

CMT_CON INSPECTOR STEPHEN OCHS

CLASS_CMT: SACKS YIELD

CLASS_CMT2: SACKS2 GEL_VISC

Cement Comments
Centralizer Wiper Plug
Shoe Collar Other

FLD *Hole 2 Field Entry Bot 1368 Diam 11 Top 0 LENGTH

Set Dt SHOT/RIP: CSG_REC'D:

CMMT Casing Condition,
Weight and Cement Basket

CONDITION WEIGHT
BOC 0 TOC 0 DT_CM Duration WITNESSED

CMT_CON INSPECTOR STEPHEN OCHS

CLASS_CMT: SACKS YIELD

CLASS_CMT2: SACKS2 GEL_VISC

Cement Comments
Centralizer Wiper Plug
Shoe Collar Other

FLD Production Casing Bot 3714 Diam 4.5 Top 0 LENGTH
Set Dt SHOT/RIP: CSG_REC'D:

CMMT Casing Condition,
Weight and Cement Basket

CONDITION WEIGHT
BOC 0 TOC 0 DT_CM Duration WITNESSED
CMT_CON INSPECTOR
CLASS_CMT: Unknown SACKS 200 YIELD
CLASS_CMT2: SACKS2 GEL_VISC 0
Cement Comments
Centralizer Wiper Plug
Shoe Collar Other

FLD *Surface Casing Fiel Bot 1327 Diam 8.62 Top 0 LENGTH 1327
Set Dt 3/22/2007 SHOT/RIP: CSG_REC'D:

CMMT Casing Condition,
Weight and Cement Basket

CONDITION New WEIGHT
BOC 1327 TOC 0 DT_CM 3/22/2007 Duration WITNESSED
CMT_CON FORMATION CEMENTING, INC. INSPECTOR STEPHEN OCHS
CLASS_CMT: Class A Cement SACKS 190 YIELD
CLASS_CMT2: Class A Cement SACKS2 125 GEL_VISC
Cement Comments 3% Ca Cl; 4% gel; 175 lbs LCM
Centralizer Wiper Plug
Shoe Collar Other

| Formation | TOP | BOT | METH_ | Producing | NonStandard | CMMNT |
|------------------|------------|------------|--------------|------------------|--------------------|--------------|
| MAXTON SAND | 899 | 973 | L | No | | GAS |
| SALT SAND | 838 | 882 | L | No | | GAS |
| KEENER SAND | 1016 | 1057 | L | No | | GAS |
| BEREA SANDSTONE | 1580 | 1588 | L | Yes | | |
| OHIO SHALE | 1588 | 3534 | L | Yes | | |
| BIG LIME | 3534 | | L | No | | |
| ORISKANY SANDSTO | 3600 | 3607 | L | Yes | | GAS |

Tomastik, Tom

From: Baker, Mike [Mike.Baker@epa.state.oh.us]
Sent: Friday, March 09, 2012 2:02 PM
To: Tugend, Thomas
Cc: Tomastik, Tom; Eggert, Michael; Lowe, Chuck
Subject: Class II Permiot Reviews

Attachments: ODNR Permit Review Summary 2.docx

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.

This message was secured by Zix (R).

3/9/2012

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.
2. Mahoning Co., Springfield Twp. D&L #7 Mohawk Printup
 - 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 Meenchan
 - Well construction comments are the same as for the #7 Mohawk Printup well.
 - The #8 Mohawk Meechan 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-south west 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

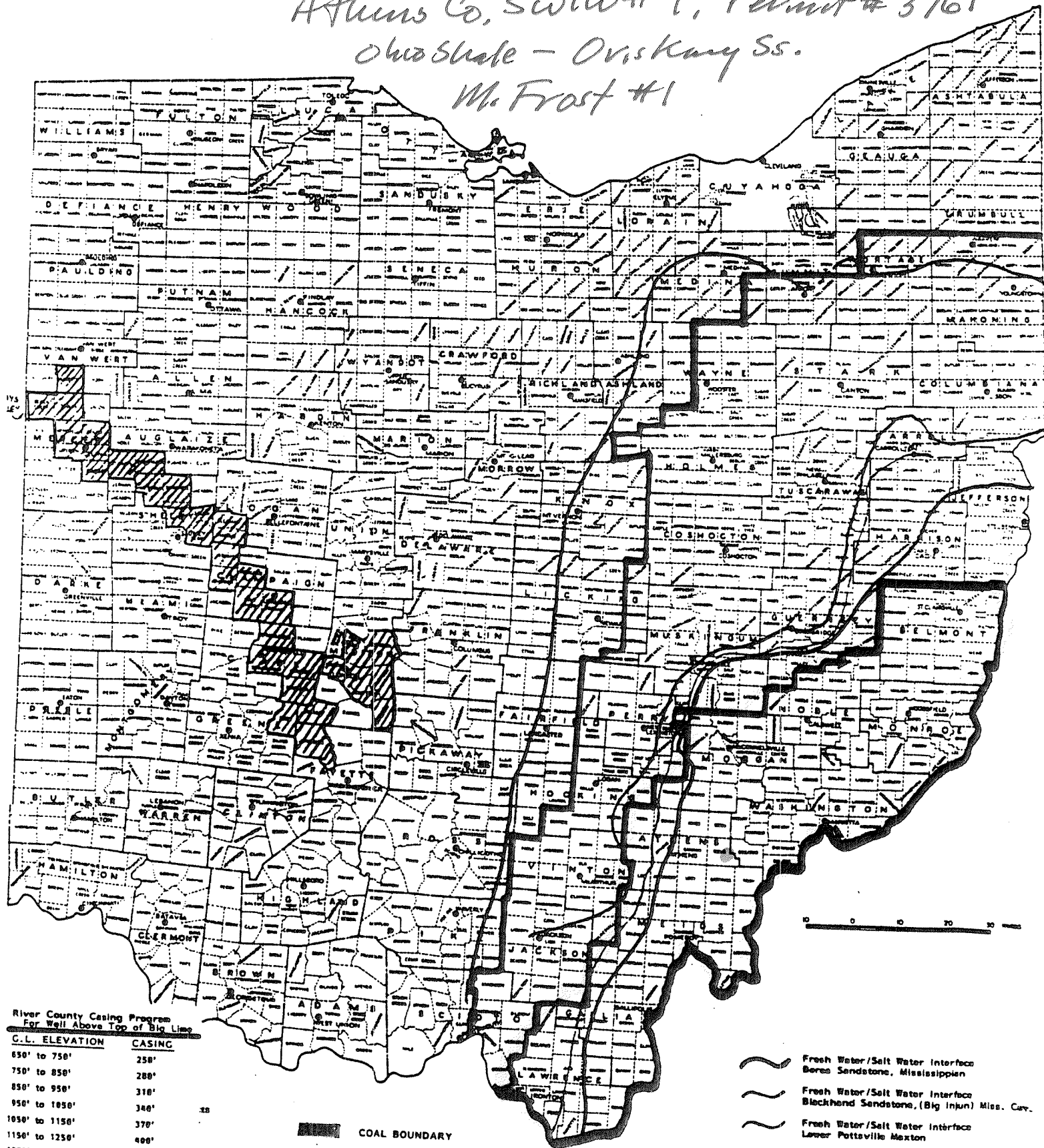
- The closet earthquake occurred approximately 20 miles southwest of the proposed well location. The earthquake occurred in 1926 and had a magnitude of 3.6.

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 closet 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.

Athens Co, SWW #9, Permit # 3761
Ohio Shale - Oriskany Ss.
Mt. Frost #1



River County Casing Program
For Well Above Top of Big Lime

| G.L. ELEVATION | CASING |
|----------------|--------|
| 650' to 750' | 258' |
| 750' to 850' | 288' |
| 850' to 950' | 318' |
| 950' to 1050' | 348' |
| 1050' to 1150' | 378' |
| 1150' to 1250' | 408' |
| 1250' to 1350' | 438' |
| OVER 1350' | 508' |

COAL BOUNDARY

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

Operator: D.T. Atha Inc.

County: Athens

Township: Rome

| P&A | FM | Permit Number | Casing/Cement Program | Well log and/or Method of Plug |
|-------------------------------------|--------------------------|---------------|--|--|
| <input type="checkbox"/> | Orinskany/ Ohio Shale | | Proposed well/Conversion. | DTD= 3800'; Casing & 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 |
| <input checked="" type="checkbox"/> | Orinskany/ Ohio Shale | 22299 | DTD= 2150'; Casing and Tubing: 7" @ 250' -circulated to surface; 4 1/2" with 60 sacks with 1741' left in well. Note: Show of gas at 1703'-1711' (Berea). Plugged and abandoned (6-19-84); Reissue plug & abandon (7-12-84); permit expired (01-08-85). | |
| <input type="checkbox"/> | Orinskany/ Ohio Shale | 23764 | DTD= 4015'; Casing & Tubing: 11 3/4" @ 45'; 8 5/8" at 1466' with 368 sacks; 4 1/2" @ 3963' with 200 sacks. Calculated fill-up is 1036'. TOC= 2927' | |
| <input checked="" type="checkbox"/> | Berea S | 20649 | TD= 1505 1/2'; Surveyed on 7-10-43, abandoned on 3-3-44. Plugging details-unreadable. | |
| <input checked="" type="checkbox"/> | Maxton Sand | 20812 | DT= 1000'; Plugged (08-20-47) as follows: "Filled through the sand with red clay set wood F clay @ 890' and F clay -filled @ 100' with clay and sand plugging; Buclyed(?) hole @ 100' and filled to top. | |
| <input type="checkbox"/> | Ohio shale | 22434 | Permit expired. | |
| <input type="checkbox"/> | Orinskany/ Ohio Shale | 23761 | DTD= 3800'; Casing & Tubing: 11.75" @ 40; 8.625" @ 1330 with 350 sacks; 4.5" with 200 sacks; Change of owner on 8-8-09. | |
| <input type="checkbox"/> | | 61350 | No data. Shallow well. | |
| <input type="checkbox"/> | | 61351 | No data. Shallow well. | |
| <input type="checkbox"/> | | 61352 | No data. 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.

61353 No data. Shallow well.



20604 TD= 1039'. Casing record- 8 1/4" @ 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.



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

March 1, 2012

Mr. Tom Tomastik

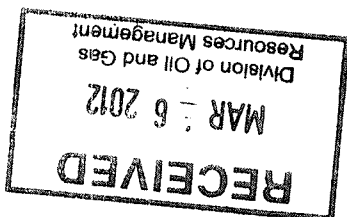
Dear Tom,

I believe I've got my act together this time. Please find enclosed a Salt Water Injection Well Affidavit, a revised Supplement To Application to convert the M. Frost #1 (PN 3761/Athens/Rome) to Class II disposal, and the Restoration Plan. Also enclosed are cement tickets and bond log for the Humphrey #1 (PN 9669), as well as the most recent Frost bond log we ran after the last cement squeeze. Hopefully all is in order now.

Sincerely,

Dave Atha
D.T. Atha, Inc.

encl



Cement Ticket

34-009-2-3761-00-00

API Well Number:

Record of Casing, Cementing and Mudding

Well Owner: D T ATHA INC
 Lease Name: ATHENS
 County: ATHENS
 Driller: FMS DRILLING
 TD Formation: ATHENS
 Comments: Good cement return was observed.

Well No. _____
 Permit Issued: 03/06/2007
 Date Commenced: 03/19/2007
 Date Completed: _____
 Tool RTAF LTD 0 DTD
 Class _____

FLD *Conductor Pipe Fie. Bot
 Set Dt 3/19/2007 SHOT/RIP:
 CMT Casing Condition,
 Weight and Cement Basket

65 Diam 11.75 Top
 0 LENGTH 65
 CSG_REC'D:

CONDITION New WEIGHT

BOC 0 TOC 0 DT_CM

Duration WITNESSED

INSPECTOR STEPHEN OCHS

SACKS YIELD

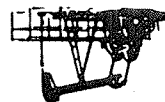
SACKS2 GEL_VISC

CLASS_CMT2:

CLASS_CMT:

CMT_CON

Cement Comments
 Centralizer Wiper Plug
 Shoe Collar Other



Ohio Department of Natural Resources
Division of Mineral Resources 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 3761/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,

Dave Atha

Dave Atha

D.T. Atha, Inc.

encl

RECEIVED
JAN 30 2012
Division of Oil
Resources Management

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)

Office 0000 7076

#7413
\$1,000.00

1. I, We (applicant) _____
(address) P.O. Box 320, Sugar Grove, Ohio 43155
hereby apply this date 28-Dec, 2011 for a permit to:
2. Owner #: 7077 Phone #: 740-746-8567

3. TYPE OF WELL:
 Reissue (check appropriate blank)
 Drill New Well
 Drill Directionally
 Drill Horizontally
 Annular Disposal Saltwater Injection
 Stratigraphic Test Gas Storage Other (explain):
 Solution Mining* Enhanced Recovery* (* if checked, select appropriate box below)
 Input/Injection Water Supply Observation Production/Extraction

4. MAIL PERMIT TO:
 Oil & Gas
 Annular Disposal Saltwater Injection
 Stratigraphic Test Gas Storage Other (explain):
 Solution Mining* Enhanced Recovery* (* if checked, select appropriate box below)
 Input/Injection Water Supply Observation Production/Extraction

5. COUNTY: Athens
 6. CIVIL TOWNSHIP: Rome
 7. SECTION: 31 8. LOT: 8
 9. FRACTION: 1/4
 10. QTR TWP: 13 42
 11. TRACT / ALLOT: 1
 12. WELL #: 1
 13. LEASE NAME: M. Frost
 14. PROPOSED TOTAL DEPTH: 3810'
 15. PROPOSED GEOLOGICAL FORMATION: Onadaga 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.
 WELL #: M. Frost
 LEASE NAME: M. Frost
 TOTAL DEPTH: 4000'
 GEOLOGICAL FORMATION: Orisk, Shale, Berea
 18. IF SURFACE RIGHTS ARE OWNED BY THE OHIO DEPARTMENT OF NATURAL RESOURCES
 Division Name: DEPARTMENT OF NATURAL RESOURCES
 Division Phone: _____

19. LANDOWNER ROYALTY INTEREST:
 Is There An Attached List? Yes No
 Name: MELINA MAY FROST
 Address: 7901 ST RT 144
 City: Guyssville, OH 43735
 Address: _____
 Name: _____
 Address: _____

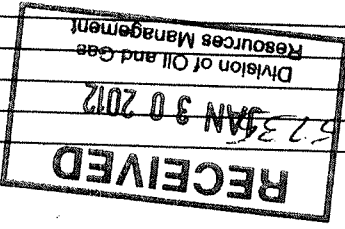
20. TYPE OF TOOLS:
 Cable Cable / Air Rotary
 Cable / Fluid Rotary
 Cable / Air / Fluid Rotary
 Service Rig
 Air Rotary
 Air / Fluid Rotary
 Fluid Rotary
 Service Rig

21. PROPOSED CASING PROGRAM:
 8.625" @ 1330' cemented to surface; 4.5" casing set @ 3772' cement top @ 3772' 1342'

22. FIRE AND MEDICAL DEPARTMENT TELEPHONE NUMBERS: (closest to well site)
 Fire: 740-667-3343
 Medical: 740-592-3247

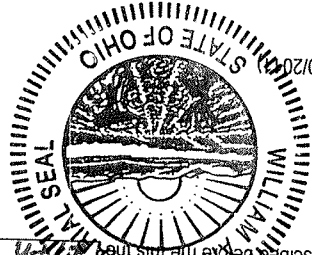
23. MEANS OF INGRESS & EGRESS:
 Township Road: _____
 County Road: _____
 Municipal Road: _____
 State Highway: ST RT 144

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



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: *William H. Atha*
 Name (Type or Print): DAVID I. ATHA
 Title: PRESIDENT
 If signed by Authorized Agent, a certificate of appointment of agent must be on file.
 Sworn to and subscribed before me this 20th day of January, 2012.



WILLIAM H. ATHA
 MY COMMISSION EXPIRES ON 11-12-2015
 (Date Commission Expires) November 12, 2015
 William H. Atha
 (Notary Public)

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

Ohio Department of Natural Resources, Division of Mineral Resources Management
2045 Morse Road, Bldg H13
Columbus, OH 43229-6693

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

31. PROPOSED INJECTION ZONE

Geological Formation:

Injection Interval: From: 3608

Geologic description of injection zone: Chiskany SS, Huron Shale

feet to 2724
Sandstone (Cr), Shale (Huron)

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:

8.625" x 24#/ft @ 1330' cemented to surface
4.5" production x 10.5#/ft @ 3772' cemented to 1342' w/550 sx

B. Proposed method for testing the casing:

Hydraulic Pressure test to ODMRM specs

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

Cement squeeze Berea perts (1581-1586) to shut off. Drill out cement to squeeze plug & pressure test squeeze integrity. Pull tubing & run w/packer, set packer @ 1750' & test for annular integrity. Finish construction of surface facility. Top injection perforations @ 2724'

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

Brine storage and injection pump facility will be constructed of an earthen pad and dike lined w/impermeable liner 30 mil x dimension of pad + dike, set atop 6" sand layer and covered by 6" sand. Loading facility constructed of concrete pad w/liquid recovery drainage & containment w/concrete diked walls and screened sump w/pump to tanks. 7 - 210 bbl fiberglass storage tanks w/loading filters set in series. All tanks and injection pump set with fluid level and pressure overrides (fail safe) controls. Injection pump equipped with pressure relief plumbed back to stock tank: all piping constructed of non-corrosive materials (plastic, pvc, fiberglass) except for downstream from injection pump; injection line constructed of steel. Storage facility pad and dike constructed of sufficient size/dimension to contain 1.5x tankage volumes. Ingress and egress via same lease road constructed of crushed limestone; access gated; monitor shed on site w/full-time employee to operate well, unloading volume record keeping and brine quality control; all fluid volumes will be measured by two brine meters: 1 @ unloading point, and 1 downstream of injection pump; additional gauge measurements @ tanks by steel gauge tape; on site records will be kept in log journals and duplicated by entry of same data onto onsite computer files; permanent records kept @ company offices.

33. PROPOSED INJECTION VOLUMES

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

AVERAGE: 1200 bbl/d MAXIMUM: 1500 bbl/d

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

See description above: brine meters and manual gauge reports

34. PROPOSED INJECTION PRESSURES

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

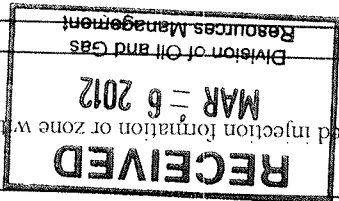
AVERAGE: 300 psi MAXIMUM: 550 psi

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

Brine injection flow meter is equipped with pressure recorder + memory storage

35. PROPOSED CORRECTIVE ACTION

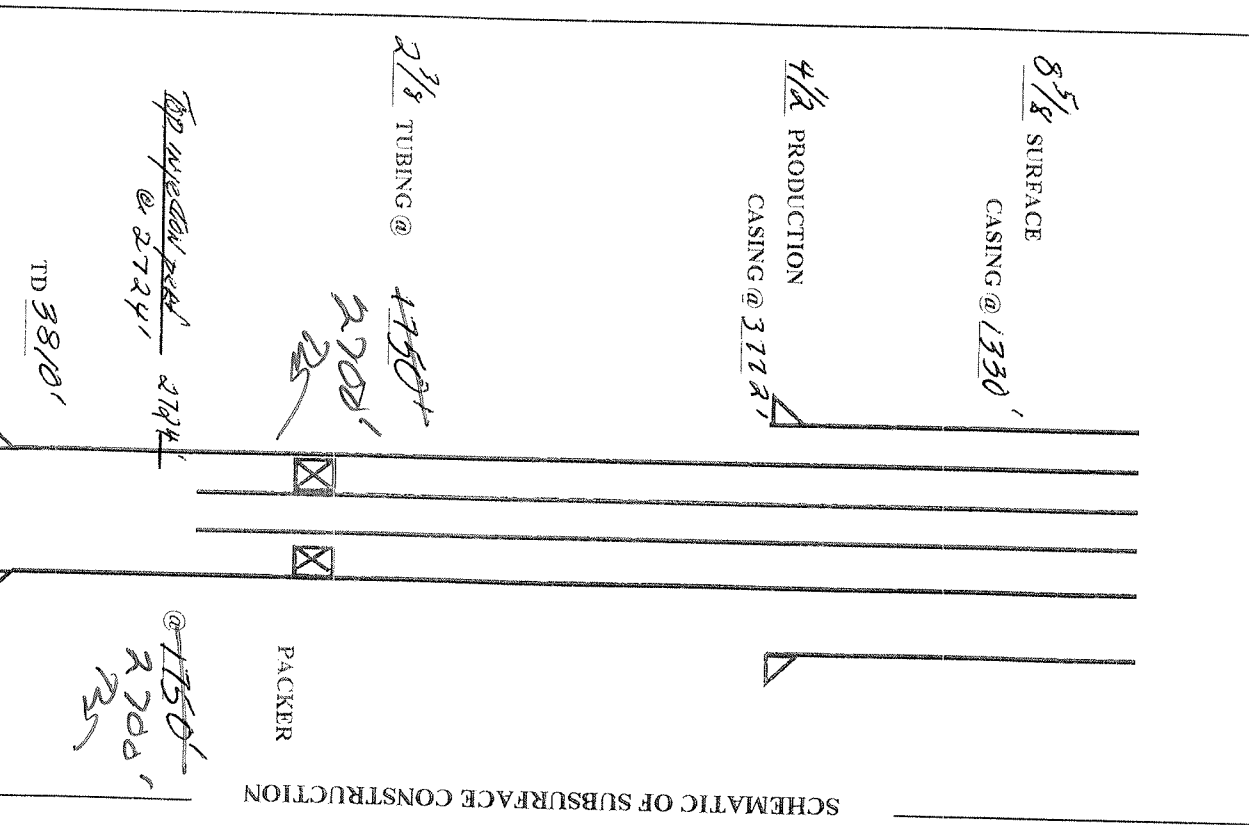
Explain any corrective action proposed for wells penetrating the proposed injection formation or zone within the area of review:



Owner/Authorized Agent (Type or Print): D. I. ATHA, INC
 Signature of Owner/Authorized Agent: [Signature]
 Permanent Address of Home Office: 89030 ROCKSTILL RD, SUGARBANE, OH 43155
 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 1 day of March, 2012.
 Notary Public STATE KNOTS
 Date Commission Expires JUNE 3, 2012

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 deposited and says that he shall conform to all provisions of Section 1509.072 of the Ohio Revised Code, and to all orders and rules issued by the Chief, Division of Mineral Resources Management.

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 deposited and says that he shall conform to all provisions of Section 1509.072 of the Ohio Revised Code, and to all orders and rules issued by the Chief, Division of Mineral Resources Management.



36. MAP. Each application for a permit shall be accompanied by a map or maps showing and containing the following information:
- A. The subject tract of land on which the proposed injection well is to be located.
 - B. The location of the proposed injection well on the subject tract established by an Ohio registered surveyor showing the distances in feet from the proposed well site to the boundary lines on the subject tract.
 - C. The geographic location of all wells, penetrating the formation proposed for injection regardless of status, within the area of review.
 - D. All holders of the land owner's royalty interest of record, or holders of the severed oil and gas mineral estates of record in the subject tract.
 - E. All owners or operators of wells producing from or injecting into the same formation proposed as the injection formation.
37. SCHEMATIC DRAWING OF SUBSURFACE CONSTRUCTION. Label the schematic drawing below indicating size and setting depth of surface casing, intermediate (if any) and production casings; amount of cement used, measured or calculated tops of cement; size and setting depth of tubing; type and setting depth of packer; geologic name of injection zone showing top and bottom of injection interval. If the proposed input well design is substantially different from the schematic below, attach on a separate sheet a schematic of your proposal labeled with the above information.

OPERATOR: MID-CON PETROLEUM CORP.
 ADDRESS: 987 Professional Bldg., Health, Ohio 43056
 SURFACE: M. FROST
 LANDOWNER: M. FROST
 WELL NO.: 1
 DRILLING UNIT AC.: 40
 COUNTY: ATHENS
 TWP.: ROME
 QUAD.: CUTLER
 X: 2,188,405
 Y: 471,070
 ELEV.: 612' DATE: 10-31-02
 SUBDIVISION CIVIL TWP.: 6N
 TWP.: 6N
 RANGE: 11W
 QUARTER TWP.: 32
 SECTION: 32
 TRACT: L.O.T.
 ALLOTMENT: OTHER
 FRACTION: OTHER

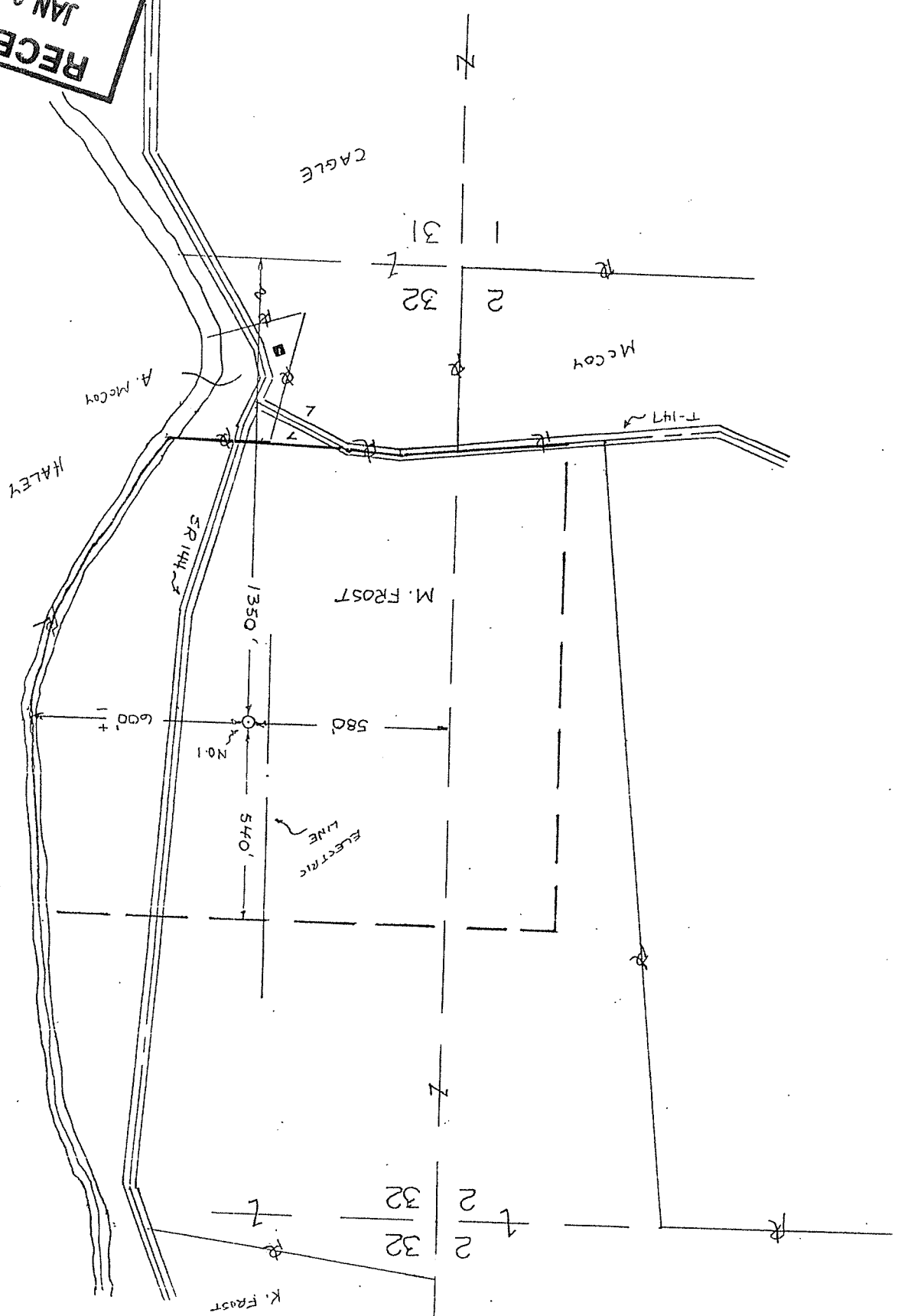
REG. SURVEYOR: S-5862
 M. FROST

SCALE 1"=400'
 0' 400' 800'

STATE OF OHIO
 DEPARTMENT OF NATURAL RESOURCES
 DIVISION OF OIL AND GAS
 REGISTRAR
 5862
 REGISTRAR

I hereby certify that all drilling or producing wells within 1000 feet and all buildings and streams within 200 feet have been shown, there are no drilling unit lines nearer than 500 feet, that this plat is true and correct and was prepared according to the current State of Ohio, Department of Natural Resources, Division of Oil and Gas Regulations.

RECEIVED
 JAN 30 2012
 Division of Oil and Gas
 Resources, Natural Resources

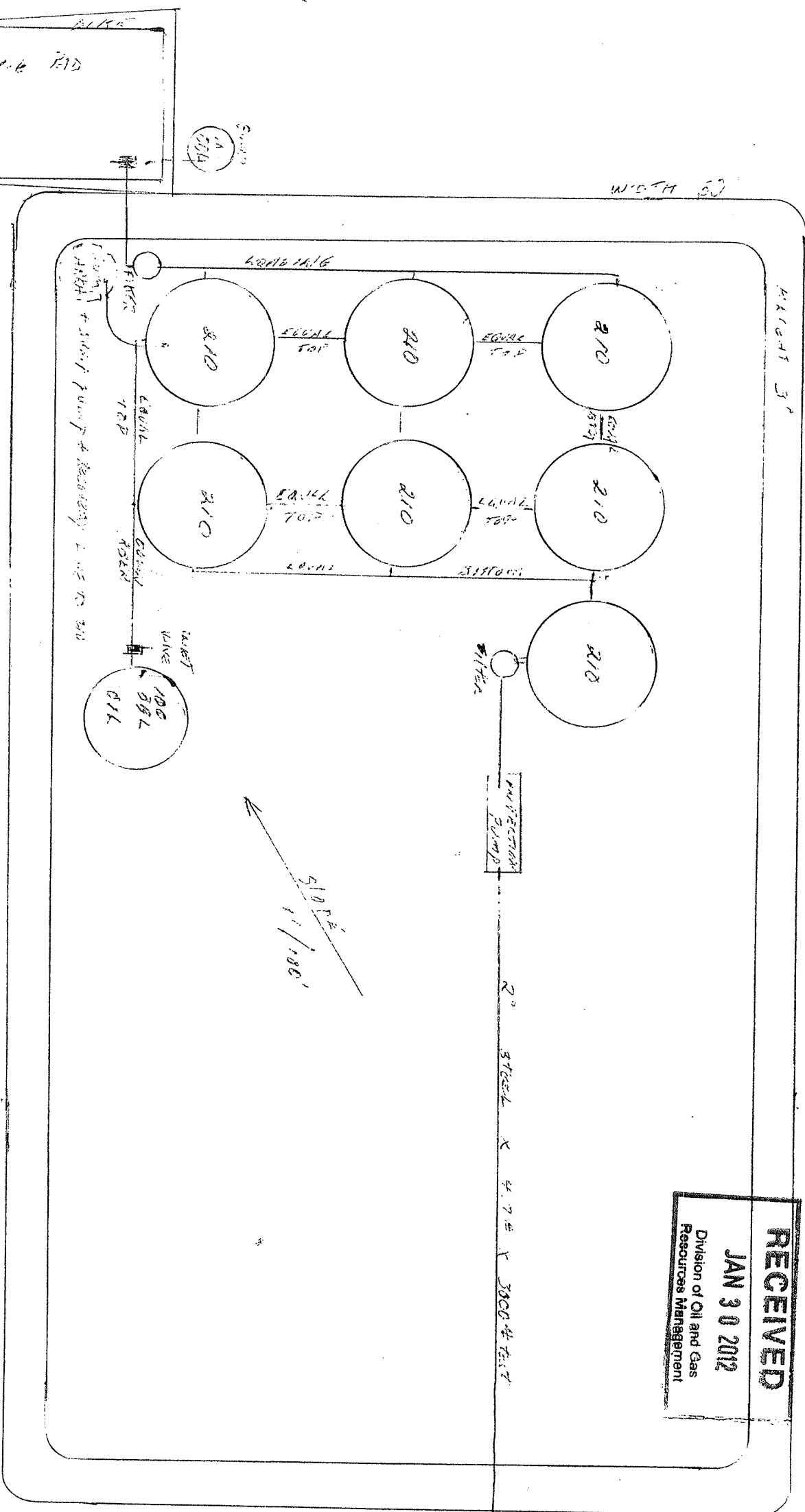


Scale - 1" = 10'

Foot # 100 - Storage & Recovery

Length - 100'

Width 3'



RECEIVED
 JAN 30 2012
 Division of Oil and Gas
 Resources Management

TEST # 1
 PM 3761

2

100' X 60' X 0.0148 = 88.8" / bbl. X 36" = 3196.8 bbls.
 Capacity
 Total storage capacity to be used = 15726 bbls.
 OR 2/7/2012

510 FEET
 1" / 100'

LONGM. 6 FID

Source
 210

WITH 50

Flowing
 100' + 100' pump & recovery
 100' TO 210

WATER
 100' 382
 210

WATER
 FILTER
 PUMP

2" STEEL X 4.75 X 3000 FT

210

210

210

210

210

210

210

210

LONGM. 6

EQUAL

EQUAL

EQUAL

EQUAL

EQUAL

EQUAL

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210

210

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: 2/27/12
 2. OWNER NAME, ADDRESS, & TELEPHONE NO.:
D.T. ATHA, INC
P.O. Box 320
Sugar Grove, OH 43155
740-746-8567
 3. API #: 34-009-2-3761-00-00
 4. WELL #: 1
 5. LEASE NAME: M. Frost
 6. PROPERTY OWNER: MAURINA Frost
 7. COUNTY: ATHENS
 8. CIVIL TOWNSHIP: ROME
 9. SECTION:
 10. LOT:

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

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

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

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

15. DISPOSAL PLAN FOR TREES AND TREE STUMPS:
 No trees disturbed
 Haul to landfill
 Cut into firewood
 Sell to lumber company
 Bury with landowner's approval
 Mutch 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
 Tilt drainage system underlying land to be disturbed
 Drain pipe(s) underlying land to be disturbed
 Surface drainage facilities on land to be disturbed

17. TYPE OF WELL:
 Oil
 Gas
 Other

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

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

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

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

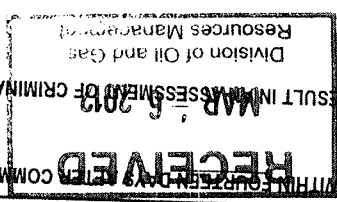
22. VEGETATIVE COVER TO BE ESTABLISHED AT SITE:
 Seeding plan
 Agricultural crops
 Proposed alternative
 Trees and/or Bushes

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

24. PROPOSED OR CURRENT LENGTH OF ACCESS ROAD:
 101 to 500 ft.
 501 to 1500 ft.
 greater than 1500 ft.

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

**PTS MUST BE FILLED WITHIN TWO MONTHS AFTER COMMENCEMENT OF THE WELL AND WITHIN FOUR MONTHS AFTER COMMENCEMENT OF THE WELL IN AN URBANIZED AREA.
 REQUIRED BY SECTION 1509.06 (A)(10), OHIO REVISED CODE -- FAILED TO SUBMIT MAY RESULT IN AN ASSESSMENT OF CRIMINAL FINES NOT LESS THAN \$100.00 NOR MORE THAN \$2,000.00 OR CIVIL PENALTIES NOT LESS THAN \$4,000.00.
 DNR-744-7002 (Revised 10/2011)



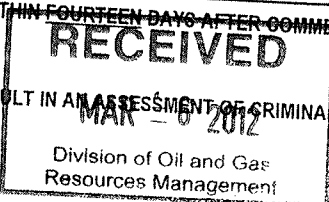
RESTORATION PLAN (Form 4)

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

| | | | | | | | | | | | | | | | | |
|--|--|---------------------------------------|----------------------------------|---|---|---------------------------------------|---------------------------------------|-------------------------------------|---|--|--|--|---|--|--|--|
| <p>1. DATE OF APPLICATION: <u>2/27/12</u></p> <p>2. OWNER NAME, ADDRESS, & TELEPHONE NO.: <u>D.T. ATHA, INC</u> <u>P.O. BOX 320</u> <u>SUGAR GROVE, OH 43155</u> <u>740-746-8567</u></p> | <p>3. API #: <u>34-009-2-3761-00-00</u></p> <p>4. WELL #: <u>1</u></p> <p>5. LEASE NAME: <u>M. FROST</u></p> <p>6. PROPERTY OWNER: <u>MALVINA FROST</u></p> <p>7. COUNTY: <u>ATHENS</u></p> <p>8. CIVIL TOWNSHIP: <u>ROME</u></p> <p>9. SECTION: _____ 10. LOT: _____</p> | | | | | | | | | | | | | | | |
| <p>11. CURRENT LAND USE:</p> <table style="width:100%;"> <tr> <td><input type="checkbox"/> Cropland</td> <td><input type="checkbox"/> Commercial</td> </tr> <tr> <td><input type="checkbox"/> Pasture</td> <td><input checked="" type="checkbox"/> Idle Land</td> </tr> <tr> <td><input type="checkbox"/> Wetlands</td> <td><input type="checkbox"/> Recreational</td> </tr> <tr> <td><input type="checkbox"/> Residential</td> <td><input type="checkbox"/> Industrial</td> </tr> <tr> <td><input type="checkbox"/> Unreclaimed strip mine</td> <td></td> </tr> <tr> <td>Woodland: <input type="checkbox"/> Broadleaf <input type="checkbox"/> Needlelike</td> <td></td> </tr> </table> | <input type="checkbox"/> Cropland | <input type="checkbox"/> Commercial | <input type="checkbox"/> Pasture | <input checked="" type="checkbox"/> Idle Land | <input type="checkbox"/> Wetlands | <input type="checkbox"/> Recreational | <input type="checkbox"/> Residential | <input type="checkbox"/> Industrial | <input type="checkbox"/> Unreclaimed strip mine | | Woodland: <input type="checkbox"/> Broadleaf <input type="checkbox"/> Needlelike | | <p>17. TYPE OF WELL:</p> <p><input type="checkbox"/> Oil <input type="checkbox"/> Gas <input checked="" type="checkbox"/> Other</p> | | | |
| <input type="checkbox"/> Cropland | <input type="checkbox"/> Commercial | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Pasture | <input checked="" type="checkbox"/> Idle Land | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Wetlands | <input type="checkbox"/> Recreational | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Residential | <input type="checkbox"/> Industrial | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Unreclaimed strip mine | | | | | | | | | | | | | | | | |
| Woodland: <input type="checkbox"/> Broadleaf <input type="checkbox"/> Needlelike | | | | | | | | | | | | | | | | |
| <p>12. SLOPE GRADIENT & LENGTH DETERMINED FROM:</p> <p><input checked="" type="checkbox"/> Ground Measurement</p> <p><input type="checkbox"/> U.S. Geological Survey Topographical Maps</p> <p><input type="checkbox"/> Other: (explain) _____</p> | <p>18. STEEPEST SLOPE GRADIENT CROSSING SITE:</p> <p><input checked="" type="checkbox"/> 0 to 2% <input type="checkbox"/> 2.1 to 8%</p> <p><input type="checkbox"/> 8.1 to 10% <input type="checkbox"/> greater than 24%</p> <p><input type="checkbox"/> 10.1 to 24%</p> | | | | | | | | | | | | | | | |
| <p>13. TYPE OF FALL VEGETAL COVER:</p> <p><input type="checkbox"/> Little or no vegetal cover</p> <p><input type="checkbox"/> Short grasses</p> <p><input checked="" type="checkbox"/> Tall weeds or short brush (1 to 2 ft.)</p> <p><input type="checkbox"/> Brush or bushes (2 to 6 ft.)</p> <p><input type="checkbox"/> Agricultural crops</p> <p><input type="checkbox"/> Trees with sparse low brush</p> <p><input type="checkbox"/> Trees with dense low brush</p> | <p>19. LENGTH OF STEEPEST SLOPE CROSSING SITE:</p> <p><input type="checkbox"/> 1 to 100 ft. <input checked="" type="checkbox"/> 101 to 200 ft.</p> <p><input type="checkbox"/> 201 to 400 ft. <input type="checkbox"/> greater than 400 ft.</p> | | | | | | | | | | | | | | | |
| <p>14. SOIL & RESOILING MATERIAL AT WELLSITE:</p> <p><input type="checkbox"/> Stockpile and protect topsoil to be used when preparing seedbed</p> <p><input type="checkbox"/> Use of soil additives (e.g., lime, fertilizer)</p> <p><input checked="" type="checkbox"/> No resoiling planned</p> <p><input type="checkbox"/> Proposed alternative _____</p> | <p>20. RESTORATION OF DRILLING PITS: **</p> <p><input checked="" type="checkbox"/> Haul drilling fluids and fill pits</p> <p><input type="checkbox"/> Use steel circulating tanks</p> <p><input type="checkbox"/> Proposed alternative _____</p> | | | | | | | | | | | | | | | |
| <p>15. DISPOSAL PLAN FOR TREES AND TREE STUMPS:</p> <p><input checked="" type="checkbox"/> No trees disturbed <input type="checkbox"/> Haul to landfill</p> <p><input type="checkbox"/> Cut into firewood <input type="checkbox"/> Sell to lumber company</p> <p><input type="checkbox"/> Bury with landowner's approval</p> <p><input type="checkbox"/> Mulch small trees and branches, erosion control</p> <p><input type="checkbox"/> Use for wildlife habitat with landowner approval</p> <p><input type="checkbox"/> Proposed alternative _____</p> | <p>21. BACKFILLING AND GRADING AT SITE:</p> <p><input type="checkbox"/> Construct diversions channeled to naturally established drainage systems</p> <p><input type="checkbox"/> Construct terraces across slopes</p> <p><input type="checkbox"/> Grade to approximate original contour</p> <p><input type="checkbox"/> Grade to minimize erosion & control offsite runoff</p> <p><input checked="" type="checkbox"/> Proposed alternative <u>Backfill cement squeeze P.T.</u></p> | | | | | | | | | | | | | | | |
| <p>16. SURFACE AND SUBSURFACE DRAINAGE FACILITIES:</p> <p><input checked="" type="checkbox"/> No existing drainage facilities for removal of surface and/or subsurface water</p> <p><input type="checkbox"/> Tile drainage system underlying land to be disturbed</p> <p><input type="checkbox"/> Drain pipe(s) underlying land to be disturbed</p> <p><input type="checkbox"/> Surface drainage facilities on land to be disturbed</p> | <p>22. VEGETATIVE COVER TO BE ESTABLISHED AT SITE:</p> <p><input checked="" type="checkbox"/> Seeding plan <input type="checkbox"/> Sod</p> <p><input type="checkbox"/> Agricultural crops <input type="checkbox"/> Trees and/or Bushes</p> <p><input type="checkbox"/> Proposed alternative _____</p> | | | | | | | | | | | | | | | |
| <p>17. TYPE OF FALL VEGETAL COVER:</p> <p><input type="checkbox"/> Little or no vegetal cover</p> <p><input type="checkbox"/> Short grasses</p> <p><input checked="" type="checkbox"/> Tall weeds or short brush (1 to 2 ft.)</p> <p><input type="checkbox"/> Brush or bushes (2 to 6 ft.)</p> <p><input type="checkbox"/> Agricultural crops</p> <p><input type="checkbox"/> Trees with sparse low brush</p> <p><input type="checkbox"/> Trees with dense low brush</p> | <p>23. ADDITIONAL HOLES:</p> <p><input checked="" type="checkbox"/> Rat/Mouse, if used, will be plugged</p> | | | | | | | | | | | | | | | |
| <p>18. STEEPEST SLOPE GRADIENT CROSSING SITE:</p> <p><input checked="" type="checkbox"/> 0 to 2% <input type="checkbox"/> 2.1 to 8%</p> <p><input type="checkbox"/> 8.1 to 10% <input type="checkbox"/> greater than 24%</p> <p><input type="checkbox"/> 10.1 to 24%</p> | <p>24. PROPOSED OR CURRENT LENGTH OF ACCESS ROAD:</p> <p><input type="checkbox"/> 100 ft. or less <input checked="" type="checkbox"/> 101 to 500 ft.</p> <p><input type="checkbox"/> 501 to 1500 ft. <input type="checkbox"/> greater than 1500 ft.</p> | | | | | | | | | | | | | | | |
| <p>19. LENGTH OF STEEPEST SLOPE CROSSING SITE:</p> <p><input type="checkbox"/> 1 to 100 ft. <input checked="" type="checkbox"/> 101 to 200 ft.</p> <p><input type="checkbox"/> 201 to 400 ft. <input type="checkbox"/> greater than 400 ft.</p> | <p>25. CURRENT LAND USE OF PATH OF ACCESS ROAD:</p> <table style="width:100%;"> <tr> <td><input type="checkbox"/> Cropland</td> <td><input type="checkbox"/> Pasture</td> <td><input type="checkbox"/> Commercial</td> </tr> <tr> <td><input checked="" type="checkbox"/> Idle land</td> <td><input type="checkbox"/> Wetlands</td> <td><input type="checkbox"/> Recreational</td> </tr> <tr> <td><input type="checkbox"/> Industrial</td> <td><input type="checkbox"/> Residential</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Unreclaimed strip mine</td> <td></td> <td></td> </tr> <tr> <td>Woodland: <input type="checkbox"/> Broadleaf <input type="checkbox"/> Needlelike</td> <td></td> <td></td> </tr> </table> | <input type="checkbox"/> Cropland | <input type="checkbox"/> Pasture | <input type="checkbox"/> Commercial | <input checked="" type="checkbox"/> Idle land | <input type="checkbox"/> Wetlands | <input type="checkbox"/> Recreational | <input type="checkbox"/> Industrial | <input type="checkbox"/> Residential | | <input type="checkbox"/> Unreclaimed strip mine | | | Woodland: <input type="checkbox"/> Broadleaf <input type="checkbox"/> Needlelike | | |
| <input type="checkbox"/> Cropland | <input type="checkbox"/> Pasture | <input type="checkbox"/> Commercial | | | | | | | | | | | | | | |
| <input checked="" type="checkbox"/> Idle land | <input type="checkbox"/> Wetlands | <input type="checkbox"/> Recreational | | | | | | | | | | | | | | |
| <input type="checkbox"/> Industrial | <input type="checkbox"/> Residential | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Unreclaimed strip mine | | | | | | | | | | | | | | | | |
| Woodland: <input type="checkbox"/> Broadleaf <input type="checkbox"/> Needlelike | | | | | | | | | | | | | | | | |

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

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



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

Subsurface Construction
For Injection Well

Maximum Injection Pressure: 630 psi

