APPLICATION CHECKLIST

Trumbull County, Vienna Twp.
Kleese 4 SWIW #24

	Date	Initials
Enter on Agenda	7-9-12	AA
Completeness Review	7-9-12	AA
Date – Time Stamp	7-3-12	AA
Area of Review	7-9-12	AA
Site Evaluation	8-9-12	AA
Permitting Section		
Memo to Inspector	7-25-12	AA
Public Notice	8-1-12	AA
Letter 8-1-12		
Date Run		
15 Days		
Review Public Notice		
Affidavit of Notification		
Objections Received Yes ____ No ____		
Public Hearing Date		
Chief's Order, if Required		
Schematic	7-9-12	AA
Plot on Map	7-9-12	AA
Review by Geologist		
Permit Conditions (Same date as permit)		
Enter on Computer (Same or later date than Chief's Order)		
Enter on Master List	7-9-12	AA
EPA Form	7-9-12	AA
Mail Permit		
Update Agenda		
File		

RECORD OF CONVERSATION

-Needs surface facility sketch - 7-9-12
-Using exist approved facility 7-26-12

Proof Sheet

APPL NUMBER	aAMY0001283	URBANIZED AREA ?	☐
OWNER NUMBER	2655	NAME	
OWNER NAME	KLEESE DEVELOPMENT ASSOCS		
EXISTING WELL	-1		
API PERMIT NO	34155237320000	DISPOSAL PLAN 1	ND
APPL TYPE	CS	DISPOSAL PLAN 2	
TYPE OF WELL	SWD	DISPOSAL PLAN 3	
VARIANCE REQUEST		DISPOSAL PLAN 4	
WELL NAME	KLEESE	DISPOSAL PLAN 5	
WELL NUMBER	4	MP Check #	0
PREV/PROPOSED TD	5120		
DRILL UNIT ACRES	0		
TYPE OF TOOL		PROPOSED FORMATIONS	
WELL CLASS	SWIW	CLINTON	
FIRE PHONE	( ) - 911		
MEDICAL PHONE	( ) - 911		
COUNTY CODE	155		
COUNTY NAME	TRUMBULL		
COAL (Y=-1/N=0)	0		
CIVIL TOWNSHIP	VIENNA	TARG CIVIL TWP	
SURF QUAD	GIRARD	TARG QUAD	
Nad 27 SURF ORIG X	2,510,900	Nad 27 TARG ORIG X	
Nad 27 SURF ORIG Y	579,000	Nad 27 TARG ORIG Y	
GROUND ELEVATION	1184	TARG ELEV	0
SURF SEC		TARG SECTION	
SURF LOT	10	TARG LOT	
SURF QTR TWP		TARG QTR TWP	
SURF ALLOT		TARG ALLOT	
SURF TRACT		TARG TRACT	
SURF FRACTION		TARG FRACTION	

DAILY ROUTE SLIP

Vienna

APPLICATION NO. aAMY0001283 TYPE: Convert SWIW

CONAME KLEESE DEVELOPMENT ASS API 34155237320000

WELL NAME /NO. KLEESE 4

COUNTY 155 TRUMBULL

	INITIALS	DATE
DATE APPLICATION REC'D	AM	7/3/2012
PERMIT FEE AND CHECK NO.	$1,000.00	0
RUSH AMOUNT RUSH CHECK NO.	$0.00	0
APPLICATION ENTERED	AM	7/3/2012
APPLICATIONS AND PLATS SENT FOR MINE APPROVAL	NA	7-23-12
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 Oil and Gas Resources Management
Facility Report

API Well No.

34155237320000 Project:

County: TRUMBULL Twp VIENNA Sec: 0 Lot: 0 WI Typ: OG

Owner KLEESE DEVELOPMENT ASSOCS Resp Co

Well Name: KLEESE # 4 No.: WH_LAT 0.000000 WH_LONG: 0.000000

Directions to site: Sodam-hutchins road north of Warren-sharon road on west side .

Inspection Type: Salt Water Injection Well Contact: Phone
Address

Inspection Purpose: Request

Type of Notification Contact STEPHEN OCHS

Inspection Comments:

The well owner has applied to convert the well from production to saltwater injection. The well site was inspected as part of a field review. There are no houses within 700 feet of the well. The lease access road will remain unchanged. The existing injection well surface facility will be used. Nothing found would warrant additional permit conditions.

Accompanied by

INJECTIONPRESSUR ☐ Vac ANNULUSPRESSURE: ☐ Vac FLOWMETER: ☐ Vac

HAULERNO: LISCENSE_NUM:

LANDOWNERWAIVER: ○ P_REST_PASS: ○ F_REST_PASS: ○

Inspection Date: 7/30/2012
Date notice of violation Issued:
Required action to be completed by:
Extended action due:
Required action completed: 7/30/2012

Signature: STEPHEN OCHS
Reviewed by:
Forward to: Section/Name
Duration: hrs

RECEIVED
AUG 09 2012
Division of Oil and Gas
Resources Management

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. Robert S. Kleese
Kleese Development Associates, Inc.
103 West Market
Warren, Ohio 44481

RE: Public Notification for SWIW application for Trumbull County, Vienna Twp., Permit #3732 and #3759, Kleese Development Associates, Inc., Kleese SWD #4 and #5 injection wells

Dear Mr. Barnett:

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) 265-6673.

Sincerely,

Andrew Adgate, Geologist
UIC Section
Division of Oil and Gas Resources Management
2045 Morse Road, F-2
Columbus, Ohio 43229-6693

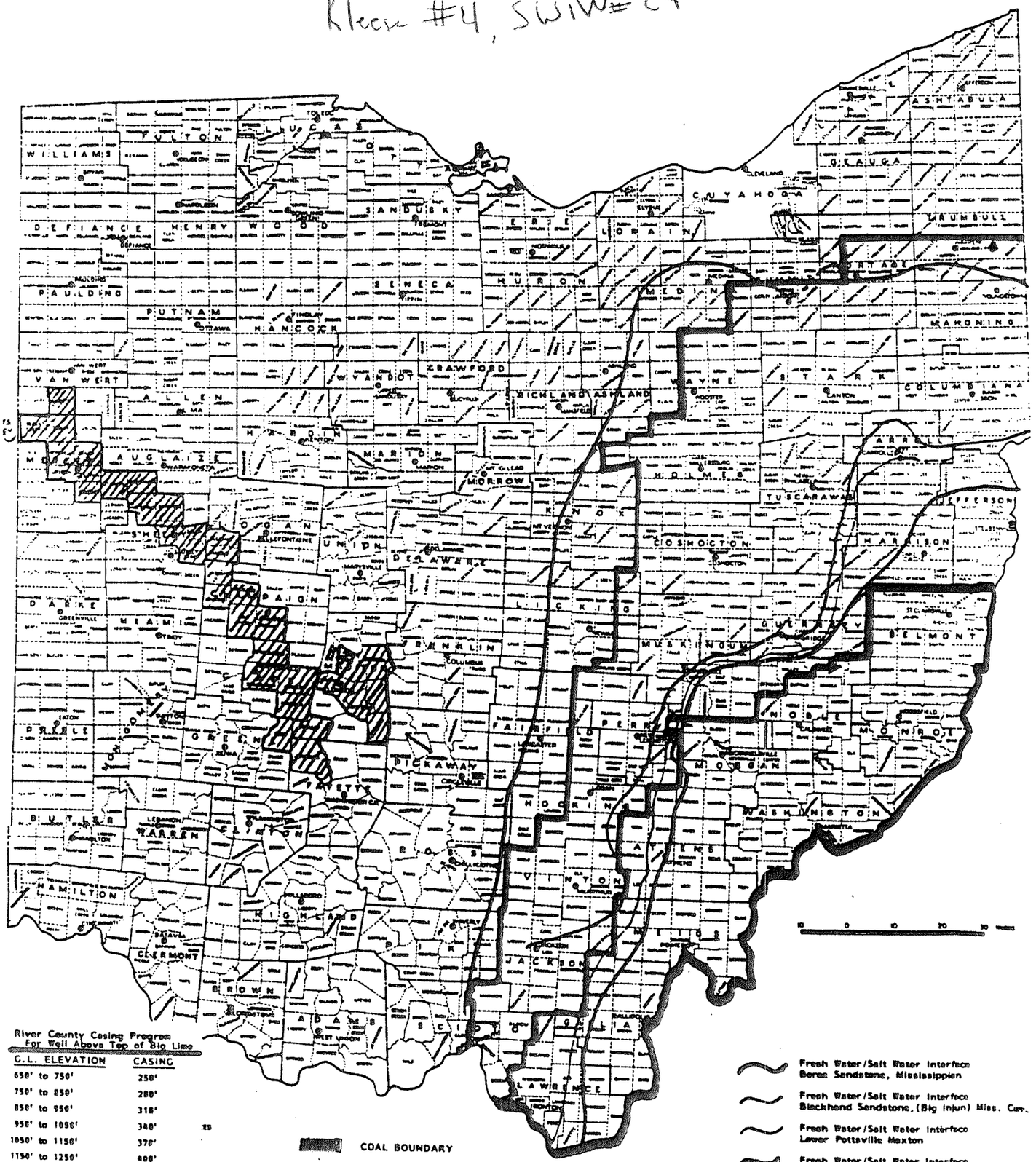
Cc: File

PUBLIC NOTICE

Kleese Development Associates, Inc., 103 West Market, Warren, Ohio 44481, (330) 392-7899 is applying to permit two wells for the injection of brine water produced in association with oil and natural gas. The location of the proposed injection wells, the Kleese #4 and #5, Permit #3732 and #3759, Section 10, Vienna Township, Trumbull County, Ohio. The proposed wells will inject into the Clinton formation at a depth of 4940 to 5078 feet and 4885 to 5033 feet. The average injection is estimated to be 500 barrels per day. The maximum injection pressure is estimated to be 1140 and 1125 psi. Further information can be obtained by contacting Kleese Development Associates, 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.

Trumbull County, Vienna Twp

Kleck #4, SW1W#24



River County Casing Program
For Well Above Top of Big Lime

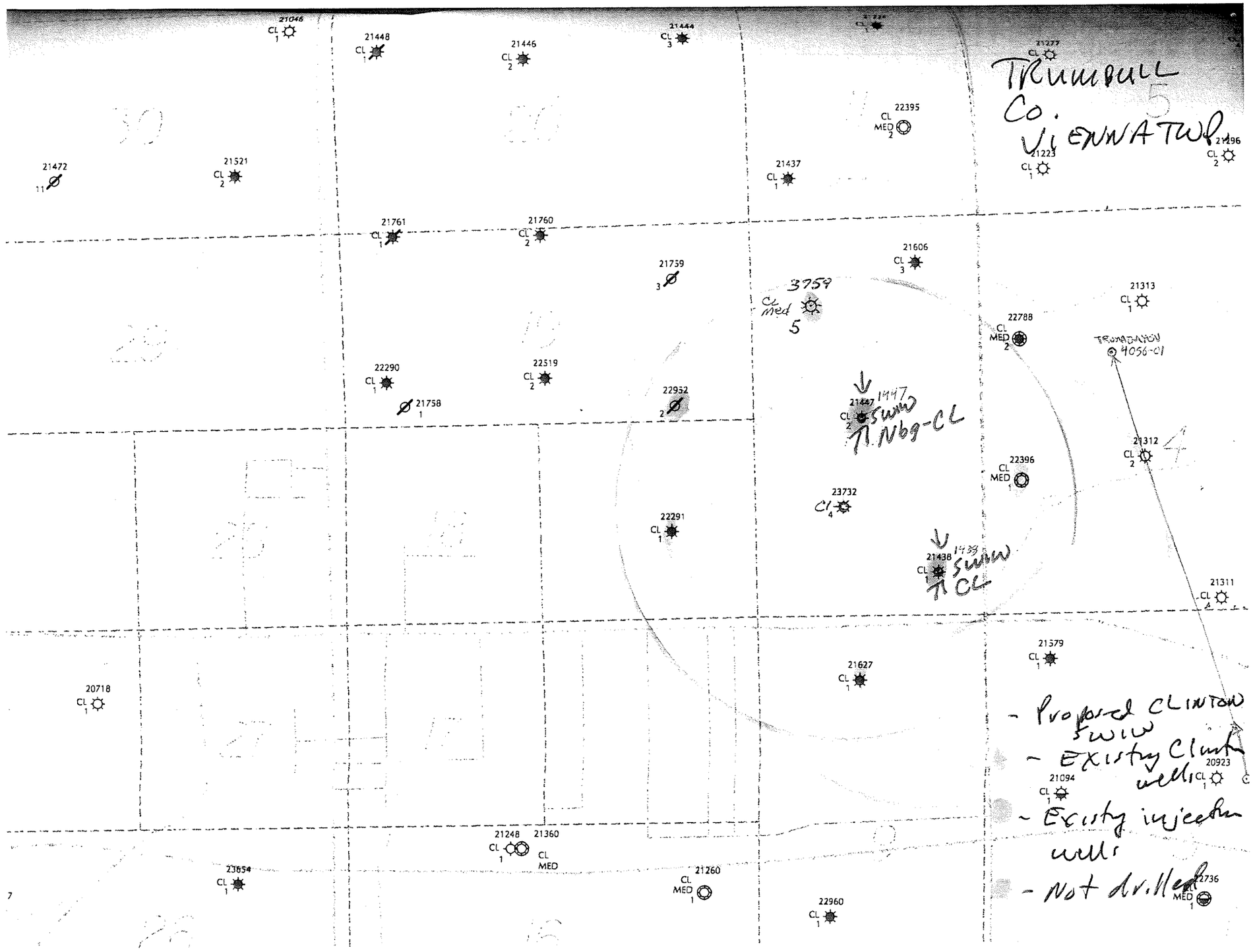
G.L. ELEVATION	CASING
650' to 750'	250'
750' to 850'	280'
850' to 950'	316'
950' to 1050'	340'
1050' to 1150'	370'
1150' to 1250'	400'
1250' to 1350'	430'
OVER 1350'	500'

OPERATOR Kleese Development COUNTY TRUMBULL

TOWNSHIP VIENNA

P & A	FM	Permit Number	Casing/Cement Program	Well Log and/or Method of Plug
☐	Clinton	3732	8 5/8" - 620' - cemented to surface	
	Kleese #4		4 1/2" - 5125' - cemented w/150 sks	TOC = 4348 feet
			Perfs = 4942' - 5023'	
☐	CL	2952	Not drilled	
☐	CL	2291	8 5/8" - 500' - cemented to surface	
			4 1/2" - 5104' - cemented w/125 sks.	
			TOC = 4457'	
☐	CL	1627	8 5/8" - 492' - cemented to surface	
			4 1/2" - 5129' - cemented w/125 sks.	
			TOC = 4492'	
☐	CL	1438	8 5/8" - 526' - cemented to surface	
			4 1/2" - 5058' - cemented	TOC - 4544'
☐	CL	1447	8 5/8" - 569' - cemented to surface	
			4 1/2" - 5146' - cemented w/125 sks, 50/50/02 10% salt	
			TOC = 4438'	
☐	CL	2396	8 5/8" - 550' - cemented to surface	
			4 1/2" - 5108' - cemented w/150 sks.	
			TOC = 4278'	
☐	CL	3759	8 5/8" - 586' - cemented to surface	
			4 1/2" - 5058' - cemented w/150 sacks	
			TOC = 4281'	
☐				
☐				
☐				

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


TRUMBULL Co.
VIENNA TWP
21046 CL 1
21448 CL 1
21446 CL 2
21444 CL 3
21277 CL
22395 CL MED 2
21223 CL 1
21296 CL 2
21472 11
21521 CL 2
21437 CL 1
21761 CL 1
21760 CL 2
21759 3
21606 CL 3
3759 CL MED 5
21313 CL 1
22788 CL MED 2
TRUMBULL 4056-CL
22290 CL 1
21758 1
22519 CL 2
22932 2
1447 SWIW
21447 CL 2
N69-CL
21312 CL 2
22396 CL MED 1
23732 CL 4
22291 CL 1
1433 SWIW
21438 CL 1
CL
21311 CL 4
21379 CL 1
21627 CL 1
20718 CL 1
20923 CL 1
21094 CL 1
21248 CL 1
21360 CL MED
23654 CL 1
21260 CL MED 1
22960 CL 1
22736 CL MED 1
- Proposed CLINTON SWIW
- Existing Clinton wells
- Existing injection wells
- Not drilled

INTER-OFFICE MEMO

TO: Steve Ochs, Mineral Resources Inspector
FROM: Andrew Adgate, Geologist AA
SUBJECT: Application and Site Evaluation for a SWIW permit
DATE: July 25, 2012

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

OPERATOR: Kleese Development Assoc.
WELL NAME & NUMBER: Kleese #4
PERMIT NUMBER: Conversion of existing well, SWIW #24
LOCATION: 1208' SL & 1580' EL of Lot 10, Vienna Twp., Trumbull County
PROPOSED INJECTION ZONE: Clinton formation
DATE RECEIVED: July 3, 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.

Original

Kleese 4

SUPPLEMENT TO APPLICATION

PERMIT FOR A SALTWATER INJECTION WELL

Form 210: rev. 8/00/sl

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 les 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: Clinton

Injection Interval: From: 4940 feet to 5078

Geologic description of injection zone: Clinton Formation

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: Existing Clinton Gas Well

11 3/4 - None

8 5/8" - 608' - 200 Sacks Cement

4 1/2" - 5125' - 150 Sacks Cement

B. Proposed method for testing the casing:

Pressure testing to states Reluisement

Injection packer Weatherford, Baker Hughes or Halliburton

C. Description of the proposed method for completion and operation of the injection well: Re Perforate Clinton, 2 shots / Ft; Acidize Perfs - 1000 Gal of 15% Iron Inhibited Acid; Re-Frac Clinton 3000 - 5000 bbl Brine

D. Description of the proposed unloading, surface storage, and spill containment facilities: Using Existing Disposal Site for Kleese 1 #4438 & Kleese 2 #1447 As Approved & Operating at State Regulated Requirements

RECEIVED

JUL 0 8 2012

33. **PROPOSED INJECTION VOLUMES**

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

AVERAGE: 200 bbl - 500 bbl MAXIMUM: 800 bbl - 1000 bb

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

Pressure to Measurment Conversion from Tank Pad.

34. **PROPOSED INJECTION PRESSURES**

AA

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

AVERAGE: 1000 psi MAXIMUM: ~~1150~~ psi 1140 psi

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

Murphy Switch Readings as well as Manual Readings from well Head.

35. **PROPOSED CORRECTIVE ACTION**

Explain any corrective action proposed for wells penetrating the proposed injection formation or zone within the area of review. Keep an adverage daily pressure on well to minimize chance of communication w/ other wells, Kleese production Surrounding zone, If communication of Injection zone is Reach on a gas well, plug & abandon if Nessecary w/ In States Accordance HowSVSR, Preliminary Review Already Approved Due to most Surrounding Production Being Kleese Developments

APPLICATION FOR A PERMIT (Form 1)

OHIO DEPARTMENT OF NATURAL RESOURCES
DIVISION OF MINERAL RESOURCES MANAGEMENT
2045 Morse Road, Building H-3
COLUMBUS, OHIO 43229-6693
(614) 265-6633

RECEIVED
JUL 0 8 2012

#14578
$1,000.00

aHMY000 1283

SEE INSTRUCTIONS ON PAGE 2 (BACK)

1. I, We (applicant) KLEESE DEVELOPMENT ASSOC.
(address) 103 West Market St. Third Floor Warren, OH 44481
hereby apply this date _____, 20 _____ for a permit to:

2. Owner #: 26553
Phone #: 330-392-7899

- [ ] Reissue (check appropriate blank)
- [ ] Drill New Well
- [ ] Drill Directionally
- [ ] Drill Horizontally
- [ ] Revised Location
- [ ] Plug Back
- [ ] Plug and Abandon
- [ ] Orphan Well Program
- [x] Convert
- [ ] Deepen
- [ ] Reopen
- [ ] Temporary Inactive

3. TYPE OF WELL:
- [ ] Oil & Gas
- [ ] Stratigraphic Test
- [ ] Annular Disposal
- [ ] Gas Storage
- [x] Saltwater Injection
- [ ] Other (explain):
- [ ] Solution Mining*
- [ ] Input/Injection
- [ ] Enhanced Recovery*
- [ ] Water Supply
- [ ] Observation
- [ ] Production/Extraction

(* if checked, select appropriate box below)

4. MAIL PERMIT TO: Same

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

5. COUNTY: TRUMBULL
6. CIVIL TOWNSHIP: VIENNA
7. SECTION: 10 8. LOT:
9. FRACTION: 10. QTR TWP:
11. TRACT / ALLOT:
12. WELL #: 4
13. LEASE NAME: KLEESE
14. PROPOSED TOTAL DEPTH:
15. PROPOSED GEOLOGICAL FORMATION:
16. DRILLING UNIT IN ACRES (must be same as acres indicated on plat):

21. PROPOSED CASING PROGRAM: *see supplement to application

17. IF PERMITTED PREVIOUSLY:
API #: 34-155-2-3732-00-00
OWNER: KLEESE
WELL #: 4
LEASE NAME: KLEESE
TOTAL DEPTH: 5120
GEOLOGICAL FORMATION: Clinton

22. FIRE AND MEDICAL DEPARTMENT TELEPHONE NUMBERS: (closest to well site)
Fire: 911
Medical: 911

23. MEANS OF INGRESS & EGRESS:
Township Road: Solon Hulchings
County Road:
Municipal Road:
State Highway:

18. IF SURFACE RIGHTS ARE OWNED BY THE OHIO DEPARTMENT OF NATURAL RESOURCES
Division Name:
Division Phone:

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

19. LANDOWNER ROYALTY INTEREST:
Is There An Attached List? [ ] Yes [ ] No
Name: Robert Kleese
Address: 103 W. Market, Warren OH 44481
Name: James Kleese
Address: Same
Name: Edward Kleese
Address: Same

RECEIVED
JUL 0 8 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 m 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 oi 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 a 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 perm to plug and abandon a well, I hereby certify that the written notices, as required in Section 1509.13, ORC, have been given.

That I hereby agree to conform with all provisions of Chapter 1509., ORC, and Chapter 1501., OAC, and all orders and conditions issued by the Chief, Division of Mineral Resources Management.

Signature of Owner/Authorized Agent _____

Name (Type or Print) Robert S. Kleese Title Partner

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

Sworn to and subscribed before me this the 29 day of June, 2012

Laura A Easton
(Notary Public)

NOTARIAL SEAL STATE OF OHIO
LAURA A EASTON
NOTARY PUBLIC - OHIO
MY COMMISSION EXPIRES 4-17-2017

4-17-2017
(Date Commission Expires)

DNR 5619 (Rev. 08/2

APPLICATION FOR A PERMIT (Form 1)

OHIO DEPARTMENT OF NATURAL RESOURCES
DIVISION OF MINERAL RESOURCES MANAGEMENT
2045 Morse Road, Building H-3
COLUMBUS, OHIO 43229-6693
(614) 265-6633

SEE INSTRUCTIONS ON PAGE 2 (BACK)

1. I, We (applicant) KLEESE DEVELOPMENT ASSOC.
(address) 103 West Market St. Third Floor Warren, OH 44481
hereby apply this date _____, 20 _____ for a permit to:

2. Owner #: 2655
Phone #: 330-392-7899

- [ ] Reissue (check appropriate blank)
- [ ] Drill New Well
- [ ] Drill Directionally
- [ ] Drill Horizontally
- [ ] Revised Location
- [ ] Plug Back
- [ ] Plug and Abandon
- [ ] Orphan Well Program
- [x] Convert
- [ ] Deepen
- [ ] Reopen
- [ ] Temporary Inactive

3. TYPE OF WELL:
- [ ] Oil & Gas
- [ ] Stratigraphic Test
- [ ] Annular Disposal
- [ ] Gas Storage
- [x] Saltwater Injection
- [ ] Other *(explain)*:
- [ ] Solution Mining*
- [ ] Input/Injection
- [ ] Enhanced Recovery*
- [ ] Water Supply
- [ ] Observation
- [ ] Production/Extraction

*(* if checked, select appropriate box below)*

4. MAIL PERMIT TO:
Same

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

5. COUNTY: TRUMBULL
6. CIVIL TOWNSHIP: VIENNA
7. SECTION: 10 8. LOT:
9. FRACTION: 10. QTR TWP:
11. TRACT / ALLOT:
12. WELL #: 4
13. LEASE NAME: KLEESE
14. PROPOSED TOTAL DEPTH:
15. PROPOSED GEOLOGICAL FORMATION:
16. DRILLING UNIT IN ACRES (must be same as acres indicated on plat):

21. PROPOSED CASING PROGRAM:
*see supplement to application

17. **IF PERMITTED PREVIOUSLY:**
API #: 34-155-2-3732-00-00
OWNER: KLEESE
WELL #: 4
LEASE NAME: KLEESE
TOTAL DEPTH: 5120
GEOLOGICAL FORMATION: Clinton

22. FIRE AND MEDICAL DEPARTMENT TELEPHONE NUMBERS: (closest to well site)
Fire: 911
Medical: 911

23. MEANS OF INGRESS & EGRESS:
Township Road: Solon Hutchings
County Road:
Municipal Road:
State Highway:

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Division Name:
Division Phone:

24. IS THE WELL LOCATION OR PRODUCTION FACILITIES WITHIN AN URBANIZED AREA AS DEFINED BY 1509.01(
- [ ] Yes
- [x] No

19. LANDOWNER ROYALTY INTEREST:
Is There An Attached List? [ ] Yes [ ] No
Name: Robert Kleese
Address: 103 W. Market, Warren OH 44481
Name: James Kleese
Address: Same
Name: Edward Kleese
Address: Same

RECEIV
JUL 0 3 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 unde 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 th 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 tha 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 Revise 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 p to plug and abandon a well, I hereby certify that the written notices, as required in Section 1509.13, ORC, have been given.

That I hereby agree to conform with all provisions of Chapter 1509., ORC, and Chapter 1501., OAC, and all orders and conditions issued by the Chief, Division of Mineral Resou Management.

Signature of Owner/Authorized Agent _____

Name (Type or Print) Robert S. Kleese Title Partner

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

Sworn to and subscribed before me this the 29 day of June, 2012.

Laura A Easton
(Notary Public)

4-17-2017
(Date Commission Expires)

NOTARIAL SEAL STATE OF OHIO
LAURA A EASTON
NOTARY PUBLIC - OHIO
MY COMMISSION EXPIRES 4-17-2017

DNR 5619 (Rev. 86/2)

original

Kleese 4

SUPPLEMENT TO APPLICATION

PERMIT FOR A SALTWATER INJECTION WELL

Form 210: rev. 8/

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 les is proposed sh 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: Clinton

Injection Interval: From: 4940 feet to 5078

Geologic description of injection zone: Clinton Formation

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: Existing Clinton Gas well

10 3/4 - None

8 5/8" - 608' - 200 SACKS Cement

4 1/2" - 5725' - 150 SACKS Cement

B. Proposed method for testing the casing:

Pressure testing to states Advisement

Injection packer Weather Ford, BAKER Hughes, or Hall

C. Description of the proposed method for completion and operation of the injection well: Re Perforate Clinton 2 shots / ft; Acidize Perfs - 1000 Gal of 15% Iron Inhibited Acid, Re-Frac Clinton 3000 - 5000 bbl Brine

D. Description of the proposed unloading, surface storage, and spill containment facilities: Using Existing Disposal Site for Kleese 1 #1438 & Kleese 2 #1447 As approved & operating at state Regulated Requirements.

RECEIVED

JUL 03 2012

33. **PROPOSED INJECTION VOLUMES**

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

AVERAGE: 200 bbl - 500 bbl MAXIMUM: 800 bbl - 1000 bbl

B. Indicate the method to be used to measure the actual amount of saltwater injected into the well: Pressure to Measurment Conversion from tank pad.

34. **PROPOSED INJECTION PRESSURES**

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

AVERAGE: 1000 psi MAXIMUM: ~~750~~ psi 1140 psi

B. Indicate the method to be used to measure the actual daily injection pressure: Murphy switch Readings as well as manual Readings from well head.

35. **PROPOSED CORRECTIVE ACTION**

Explain any corrective action proposed for wells penetrating the proposed injection formation or zone within the area review. Keep an average daily pressure on well to minimize chance of communication w/ other wells, Kleese production surrounding zone. If communication of Injection zone is Reach on a gas well, plug & abbandon if Nessecary w/ In states Approval. However, preliminary Review already Approved Due to most Surrounding Production Being Kleese Developments

RESTORATION PLAN (Form 4)

Ohio Department of Natural Resources

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

1. DATE OF APPLICATION:

2. OWNER NAME, ADDRESS, & TELEPHONE NO.:
KLEESE DEVELOPMENT ASSOC.
103 West Market St.
Third Floor
Warren, OH 44481

3. API #:
4. WELL #: 4
5. LEASE NAME: KLEESE
6. PROPERTY OWNER: KLEESE
7. COUNTY: TRUMBULL
8. CIVIL TOWNSHIP: VIENNA
9. SECTION: 10 10. LOT:

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

12. SLOPE GRADIENT & LENGTH DETERMINED FROM:
- [ ] Ground Measurement
- [x] 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.)
- [x] Agricultural crops
- [ ] Trees with sparse low brush
- [ ] Trees with dense low brush

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

15. DISPOSAL PLAN FOR TREES AND TREE STUMPS:
- [x] No trees disturbed
- [ ] Haul to landfill
- [ ] Cut into firewood
- [ ] Sell to lumber company
- [ ] Bury with landowner's approval
- [ ] Mulch small trees and branches, erosion control
- [ ] Use for wildlife habitat with landowner approval
- [ ] Proposed alternative _____

16. SURFACE AND SUBSURFACE DRAINAGE FACILITIES:
- [x] 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

17. TYPE OF WELL:
- [ ] Oil
- [ ] Gas
- [x] Other

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

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

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

21. BACKFILLING AND GRADING AT SITE:
- [x] 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:
- [x] Seeding plan
- [ ] Sod
- [ ] Agricultural crops
- [ ] Trees and/or Bushes
- [ ] Proposed alternative _____

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

24. PROPOSED OR CURRENT LENGTH OF ACCESS ROAD:
- [ ] 100 ft. or less
- [x] 101 to 500 ft.
- [ ] 501 to 1500 ft.
- [ ] greater than 1500 ft.

25. CURRENT LAND USE OF PATH OF ACCESS ROAD:
- [ ] Cropland
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****PITS MUST BE FILLED WITHIN TWO MONTHS AFTER COMMENCEMENT OF THE WELL AND WITHIN FOURTEEN DAYS AFTER COMMENCEMENT OF THE WELL IN AN URBANIZED AREA.**

RECEIVED

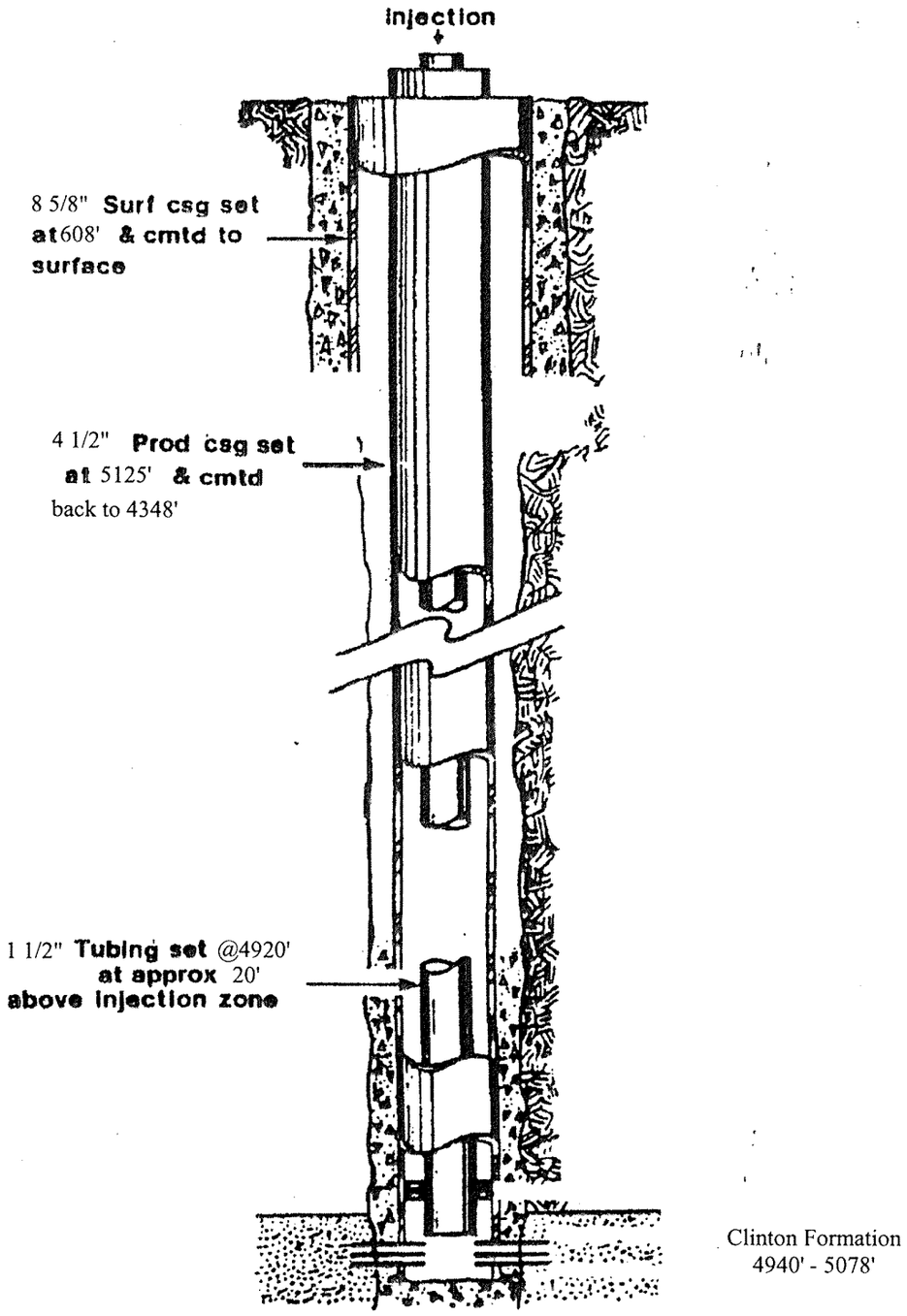
REQUIRED BY SECTION 1509.06 (A)(10), OHIO REVISED CODE -- FAILURED TO SUBMIT MAY RESULT IN AN ASSESSMENT OF CRIMINAL FINES NOT LESS THAN $100.00 NOR MORE THAN $2,000.00 OR CIVIL PENALTIES NOT LESS THAN $4,000.00.

JUL 03 2012

Trumbull County, Vienna Twp., SWIW # 24
Kleese # 4

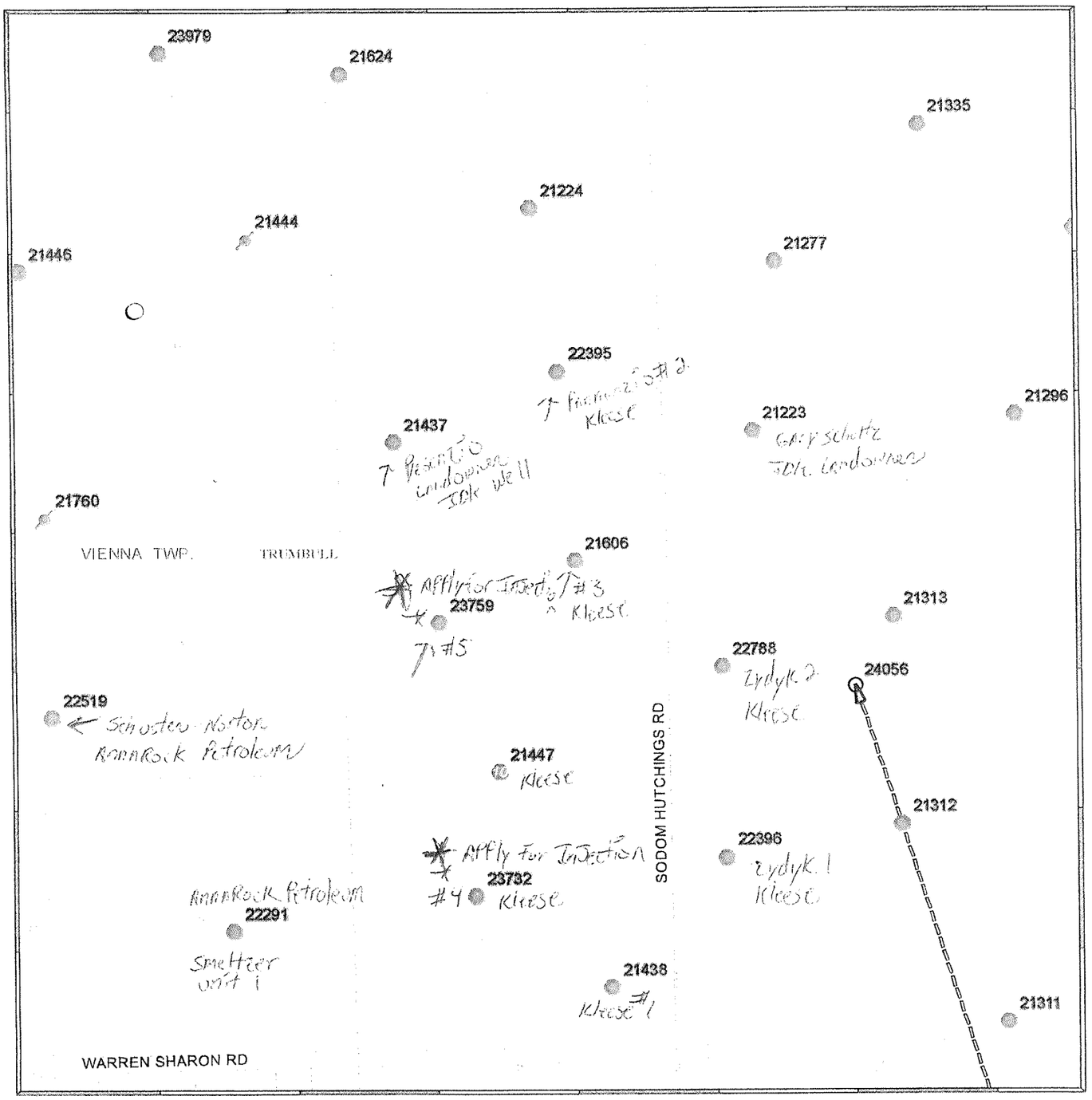
Subsurface Construction
For Injection Well

Maximum Injection Pressure: 1140 **psi**



Total Depth: 5150'

OHIO EMERGENCY OIL AND GAS WELL LOCATOR MAP



RECEIVED

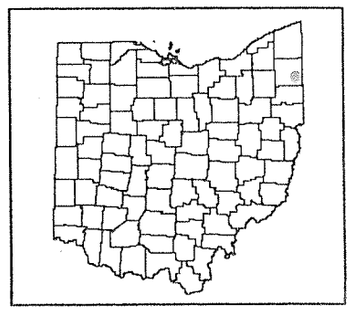
JUL 0 3 2012

0 0.08 0.06 0.12 0.18 0.24 Miles

0 0.05 0.1 0.2 0.3 0.4 Kilometers

Map provided by:
The Ohio Department of Natural Resources:
Division of Geological Survey
and
Division of Mineral Resources Managment
http://www.ohiodnr.com/

INDEX MAP



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RESTORATION PLAN (Form 4)

Ohio Department of Natural Resources

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

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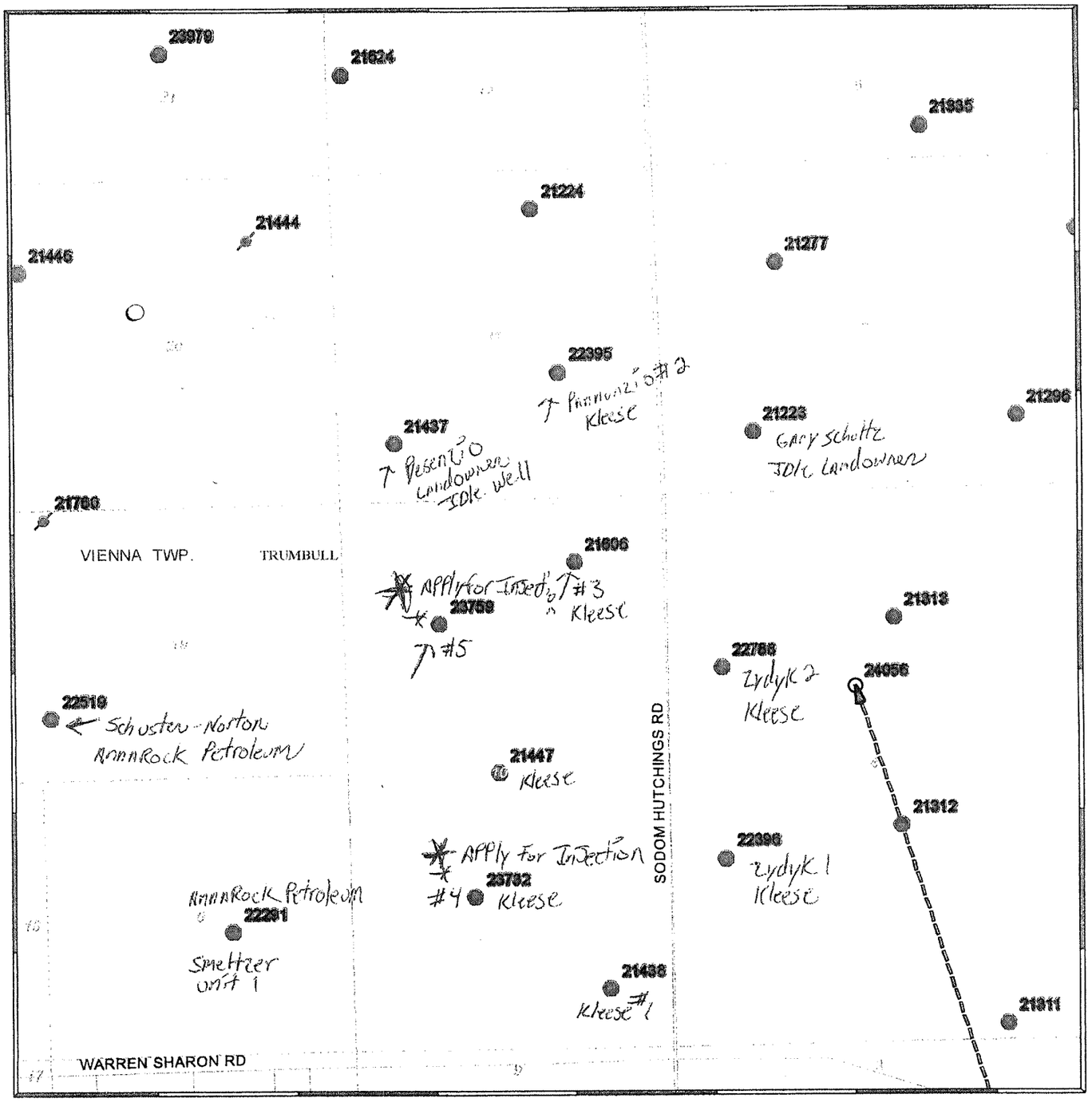

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JUL 03 2012

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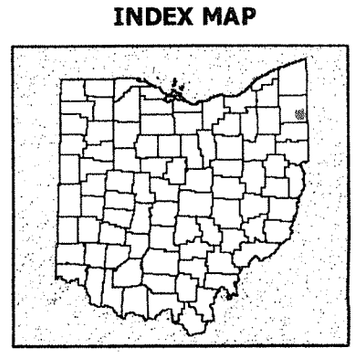

KLEESE DEVELOPMENT ASSOCIATES

June 29, 2012

Tom Tomastick
O.D.N.R.
Division of Mineral Resources
2045 Morse Road, H-3
Columbus, OH 43229

Dear Mr. Tomastick:

Enclosed please find the permit applications to convert the Kleese #4 & Kleese #5 oil and gas wells into injection wells. Please review these applications and contact me or Matt Kleese (330-360-8055) if you have any questions.

Sincerely,

Robert S. Kleese, partner
Kleese Development Associates

Enclosures

RSK/mak

103 WEST MARKET ST.
SUITE 300
WARREN, OH 44481

Phone: 330-392-7899
Fax: 330-392-9022
E-mail: NPatrium@aol.com

SUPERIOR WELL SERVICES

SUPERIOR

PERFORATING RECORD

COMPANY	KLEESE DEVELOPMENT
WELL NAME & NUMBER	KLEESE #4
FIELD	VIENNA
COUNTY	TRUMBULL
STATE	OHIO
PERMIT NUMBER / API NUMBER	3732
LOCATION	1208'SL & 580'EL LOT 10
SEC	
TWP	VIENNA
RGE	
OTHER SERVICES:	
PERMENANENT DATUM AND ELEVATION	1184
LOG MEASURED FROM	G.L. FT ABOVE PERMENANT DATUM
DRILLING MEASURED FROM	R.K.B.
ELEVATIONS KB	
ELEVATIONS DF	
ELEVATIONS GL	1184'

DATE	02-01-01			
RUN NO.	ONE			
TYPE LOG	G/R-CCL			
DEPTH DRILLER	5120			
DEPTH LOGGER	5118			
BOTTOM LOGGED INTV.	5118			
TOP LOGGED INTV.	4850			
TYPE FLUID IN HOLE	WATER			
SALINITY PPM CL.				
DENSITY				
LEVEL	FULL			
MAX. TEMP. DEG. F				
OPERATING RIG TIME				

RECORED BY: RANDY FISHBURN

WITNESSED BY: MR. KLEESE

RUN NO.	BORE HOLE RECORD BIT	FROM	TO	CASING RECORD SIZE	WGT	FROM	TO
ONE	7 7/8		T.D.	4 1/2		SURF	T.D.

THIS HEADING AND LOG CONFIRMS TO API RECOMMENDED PRACTICE RP-33

6-001 Perforating Header

SHOOTING RECORD

RECEIVED

JUL 03 2012