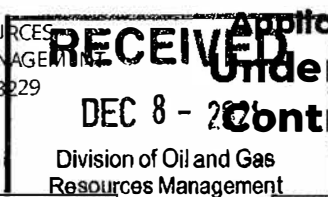




OHIO DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL & GAS RESOURCES MANAGEMENT
2045 Morse Road, F-2 • Columbus, OH 43229
(614) 265-6922 • Fax (614) 265-6910



Application for ORC 1509.06
Underground Injection
Control Permit (UIC 1)

See Instructions on page 4.

Applicant: DeepRock Disposal Solutions LLC.

Owner #: 9896

Address: 637 State Route 821

Phone: 740-371-5078

Marietta OH 45750

Email: wesm@deeprockds.com

Applicant hereby applies on 11/01/2021 for a permit to

2. Mail Permit to:

DeepRock Disposal Solutions LLC.

637 State Route 821

Marietta OH 45750

1. Type of Permit:

☐
☐
☐

Drill a New Well

Revise Location

Deepen

☒
☐

Reissue

Convert

☐
☐

Plug Back

Reopen

Previously Issued API #: 34-167-2-9770

3. Orientation of Well:

☒

Vertical

☐

Directional

☐

Other

4. Well Type:

☒
☐
☐

Saltwater Injection

Solution Mining

Enhanced Recovery

Choose all that apply:

☒
☐

Input/Injection

Water Supply

☐
☐

Observation

Production/Extraction

5. Is the well or surface facility located within an urbanized area as defined by ORC 1509.01(Y)?

☐

Yes

☒

No

If Yes, Name of Urbanized Area:

6. Well Information:

Well Name:

Stephan

Well Number:

1

Section/Lot #:

4

City/Village/Township:

Warren

County:

Washington

7. Proposed Depth and Geological Formation:

Proposed Total Depth:

6,450

Proposed geological formation(s) to be used as the injection zone:

Subject Tract Acres:

20.582

Clinton - Medina sandstone

Depth of Base of Target Formation:

6,325

8. Royalty Interest Owner Information *Attach Royalty Interest Owner Information List.*

Does the State hold any royalty interest within the proposed subject tract?

☐

Yes

☒

No

If Yes, Name of Agency:

Are there any surface rights owned by the State of Ohio in this subject tract?

☐

Yes

☒

No

If Yes, Name of Agency:

9. Water Source for Production Operations: ORC 1509.01 (AA)

OPTIONAL Latitude:

Longitude:

Water Source: Municipal- City of Marietta - (Source) -Seven production water wells from sand & gravel aquifer

Watershed: ☐ Lake Erie ☒ Ohio River ☐ Other:

e.g. Recycled water or water from a non-Ohio watershed

Estimated Withdrawal Rate: 10,000 GAL/DAY

Estimated Total Volume: 100,000 GAL

If Recycled Water, Estimated Total Volume: GAL

10. Jurisdictional Emergency Contacts for the Well Site:

	NAME	PHONE NUMBER (NOT 911)
Fire Department:	Reno - VFD	740-373-9800
Sheriff's Office or Police Department:	Washington County Sheriff	740-373-7070
Closest Medical Facility:	Marietta Memorial Hospital	740-374-1400
County EMA Director: <i>OPTIONAL</i>	Rich Hays	740-373-5613
Local Emergency Planning Committee: <i>OPTIONAL</i>		740-373-5613

11. 24 Hour Emergency Contact:

Company Name:	DeepRock Disposal Solutions		
Contact Name:	Dave Casto	Title:	Operations Manager
24-Hour Phone Number:	740-371-5078	Email Address:	davec@deeprockds.com

Please attach name and contact information for any additional emergency contacts.

12. Well Site Access:

Describe ingress/egress route: Take OH Rt. 550 from OH Rt.7 for 4/10ths. mile, lease road on left

Location (NAD83) of well site entrance from a public road:

Latitude: 39-24-16.61

Longitude: 81-28-40.25

13. Other Attachments

Choose the appropriate supplemental form:

- ☒ Form 210 (SWIW) and required attachments
☐ Form 203 (ERP) and required attachments
☐ Form 206 (SMP) and required attachments

- ☒ Plat Map
☒ Restoration Plan (Form 4)
☐ Completion Report (Form 8) *if conversion*

If in an Urbanized Area:

- ☒ Required Maps
☒ Required Notification and List

14. Well Construction:

TYPE CASING	BOREHOLE		CASING		CEMENT		FORMATION
	DIAMETER IN	DEPTH FT	DIAMETER IN	DEPTH FT	TOP FT	VOLUME SACKS	
Drive Pipe							
Conductor	24"	100'	20"	100'	surface	106	
Mine String							
Surface	17 1/2"	400'	13 3/8"	400'	surface	306	
Intermediate 1	9 5/8"	2,400'	9 5/8"	2,400'	surface	706	through Gordon
Intermediate 2							
Production 1	8 3/4"	6,400"	7"	6,400'	2,100'	556	
Production 2							
Open Holes							
Liner							
Tubing	4 1/2"			6,135'			set on packer
Packer							

TYPE CASING	DRILLING EQUIPMENT	NUMBER OF CENTRALIZERS	TESTED?	PRODUCED?	HYDRAULIC FRACTURING?
Drive Pipe			<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes
Conductor			<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes
Mine String			<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes
Surface	Air & Fuild Rotary Rig	1	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes
Intermediate 1	Air & Fuild Rotary Rig - 9 5/8" - 2,400'	2	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes
Intermediate 2			<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes
Production 1	Air & Fuild Rotary Rig - 7" - 6,400'	4	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes
Production 2			<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes
Open Hole			<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes
Liner			<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes
Tubing	Rotary or Service Rig - 4 1/2" - 6,135'	6	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes
Packer	Service Rig - Packer Set 6,135'		<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes


15. Signatures

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 submit an application in accordance with Section 1509.06 of the Revised Code.

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.

By signing below I hereby agree to conform with all provisions of Chapter 1509 of the Ohio Revised Code and Chapter 1501:9 of the Ohio Administrative Code, and all orders and conditions issued by the Chief of the Division of Oil and Gas Resources Management.

 SIGNATURE OF OWNER/AUTHORIZED AGENT	John W. Mossor Jr. NAME Type or Print	General Manager TITLE
--	--	--------------------------

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



ANNE E KERENYI
Notary Public - State of Ohio
My Commission Expires
February 13, 2023

Sworn to before me and subscribed in my presence on this

30th day of November, 2021
MONTH YEAR


NOTARY PUBLIC

My commission expires 2-13-23

Instructions

- Drill, Reopen, Deepen, Plug Back, and Convert** an Oil and Gas Well (non-urban valid for 24 months; urban valid for 12 months)
 - Original Application for a Permit (Form 1)
 - Original of an Ohio registered surveyor's plat
 - Original of the Restoration Plan (Form 4)
 - Reopen, Deepen, Plug Back and Convert** require a copy of the Well Completion Record (Form 8)
 - Fees: Check or money order payable to the Division of Oil and Gas Resources Management

Class II Disposal Well: \$1,000

Class II Enhanced Recovery Well and Class III Solution Mining Well:

- \$500 for a township with a population up to 9,999
- \$750 for a township with a population of 10,000 to 14,999
- \$1,000 for a township with a population exceeding 15,000

2. Reissue or Revised Location

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

3. Definitions:

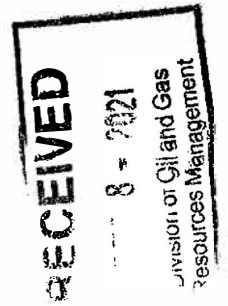
- "Urbanized area" means an area where a well or production facilities of a well are located within a municipal corporation or within a township that has an unincorporated population of more than five thousand in the most recent federal decennial census prior to the issuance of the permit for the well or surface facility.
- "Subject tract" means a tract(s) upon which a person proposes to and has the legal right to drill, reopen, deepen, plug back, or convert a well for the injection of brine for the class II disposal well.

SEND ALL ATTACHMENTS AND FEES TO:
OHIO DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL & GAS RESOURCES MANAGEMENT
2045 MORSE ROAD BUILDING F
COLUMBUS OH 43229

LIST OF LANDOWNER ROYALTY OWNERS

STEPHAN #1

- Valley Hospitality Inc.
301 Popular Avenue
Williamstown, Ohio 26187





**SUPPLEMENT TO APPLICATION
PERMIT FOR A SALTWATER INJECTION WELL (Form 210)**
(REVISED 0515)

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 (200) 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 (200) 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: Clinton - Medina

Injection Well Interval: FROM 6,165.00 FEET TO 6,325.00 FEET

Geologic description of Injection zone: Sand Stone

Composition of Proposed Fluids to be Injected: (CHECK ALL THAT APPLY)

☒ Brine ☒ Flow-Back Drilling ☐ Fluids ☒ Other Approved Fluids

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:

See attached

B. Proposed method for testing the casing:

Load casing w/fresh water and Inhibitor, pressure up (ODNR approved/directed maximum pressure)

using a pump truck equipped w/recorder, monitor pressure for (ODNR provided) time to confirm no pressure loss.

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

Well will be operated as part of our ODNR/UIC approved Rt. 7 facility,

connected via pipeline, pipe will be 3" welded steel, incased inside 6" HPDE "poly-pipe" conduit

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

Well will be operated as part of our ODNR/UIC approved Rt. 7 facility

33. PROPOSED INJECTION VOLUMES

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

AVERAGE: 3,000 MAXIMUM: 5,500

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

Will be connected to our Silver Smith/Meter Central scada system, pressures will be transmitted via inline transducers, backed up with a Barton meter,

along with volume meters at the wellhead

34. PROPOSED INJECTION PRESSURES

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

AVERAGE: 1,400 MAXIMUM: 1,420

35. PROPOSED CORRECTIVE ACTION

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

Based on area of review, we do not believe there are any corrective actions required.

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

(REVISED 0515)

36. MAP

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

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

37. SCHEMATIC DRAWING OF SUBSURFACE CONSTRUCTION

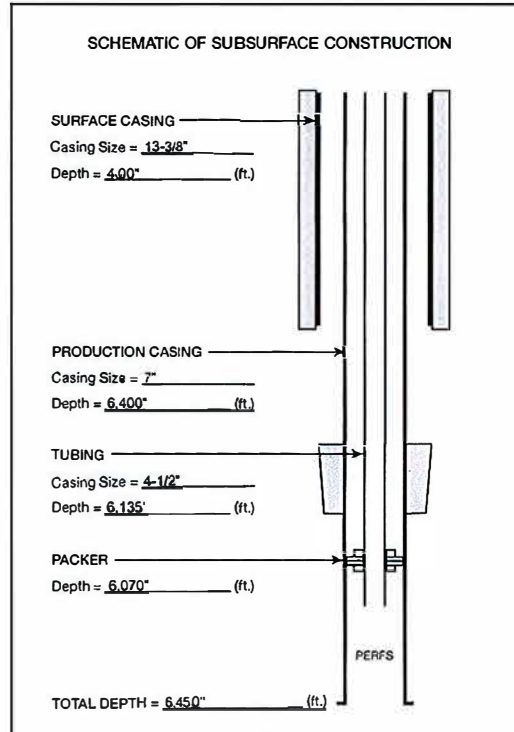
Label the schematic drawing below indicating size and setting depth of surface casing, intermediate (if any) and production casings; amount of cement used, measured or calculated tops of cement; size and setting depth of tubing; type and setting depth of packer; geologic name of injection zone showing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

38. PUBLIC NOTICE OF A SALTWATER INJECTION WELL

Public notice of an application for a saltwater injection well is required by law. In addition, the applicant must submit, on an attached sheet, a list of the names and address(es) of those persons required to receive personal notice in accordance with Rule 1501:9-3-06(H), of the Ohio Administrative Code.

After submitting the application, and after a determination by the Division that it is complete as required by the rules of the Division, a legal notice must be published by the applicant in a newspaper of general circulation in the area of review. The legal notice must contain the information described in Rule 1501:9-3-06(H) of the Ohio Administrative Code. A copy of the notice must be delivered to all owners or operators of wells within the area of review producing from or injecting into the same formation proposed as the injection formation. Proof of publication, publication date, and an oath as to the delivery to those entitled to receive personal notice under this method must be filed with the Division within thirty (30) days after the Division determines that the application is complete.

In addition, notice of all applications for saltwater injection wells will be published in the Division's weekly circular.



The undersigned hereby agrees to comply with all provisions for a saltwater injection well as required by Chapter 1501:9-3 of the Ohio Administrative Code. In addition, the undersigned deposed and says that s/he shall conform to all provisions of Section 1509.072 of the Ohio Revised Code, and to all orders and rules issued by the Chief, Division of Oil and Gas Resources Management.

Owner/Authorized Agent (Type or Print): John W Mossor Jr

Signature of Owner/Authorized Agent: [Signature] Title: General Manager

Permanent Address of Home Office: 637 State Rt. 821 Marietta, OH 45750

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

SWORN to and subscribed to me this 22nd day of October, 2021



ANN E KERENYI
Notary Public - State of Ohio
My Commission Expires
February 13, 2023

[Signature]
Notary Public

2-13-23

Date Commission Expires

<u>STRUCTURAL</u>	<u>DEPTHS</u>	<u>FORMATION TOPS</u>
Berea Sandstone	1,175'	2,017'
Onondaga Limestone	3,675'	4,517'
Packer Shell	5,275'	6,117'
Top of Clinton Sandstone	6,165'	
Top of Medina Sandstone	6,309'	
Base of Medina Sandstone	6,325'	
Proposed Total Depth	6,450'	

<u>CASING PROGRAM</u>				
<u>Type</u>	<u>Hole Size</u>	<u>Pipe Size</u>	<u>Casing Depth</u>	
Conductor	24"	20"	100'	
Surface	17 1/2"	13 3/8"	400'	
Intermediate	12 1/4"	9 5/8"	2,400"	(Through Gordon)
Longstring	8 3/4"	7"	6,400"	
Tubing	4 1/2"		6,135'	Set on packer

<u>Cementing Program</u>	
Conductor	20" - 94lb - J55 inside 24" hole - cemented to surface Class A (15.6lb/gal) - 106 Sks
Surface	13 3/8" - 48lb - H40 inside 17 1/2" hole - cemented to surface Class A (15.6lb/gal) - 306 Sks
Intermediate	9 5/8" - 36lb - J55 inside 12 1/4" hole - cemented to surface total Cement - 706 Sks
	Lead cement - 28gel - 14.7lb/per gal - 387.5 Sks
	Tail cement - Class A (15.6lb/per gal) - 318.5 Sks
Longstring	7" - 23lb - P110 inside 8 3/4" hole - cemented back to 2,100' - 556 Sks
	Lead cement - Unifill - 13.6lb/per gal - 269.5 Sks
	Tail cement - 50/50 POZ (28lb/per gal) - 286.5 Sks

**DeepRock Disposal
Stephan # 1
Permit Appalachian**

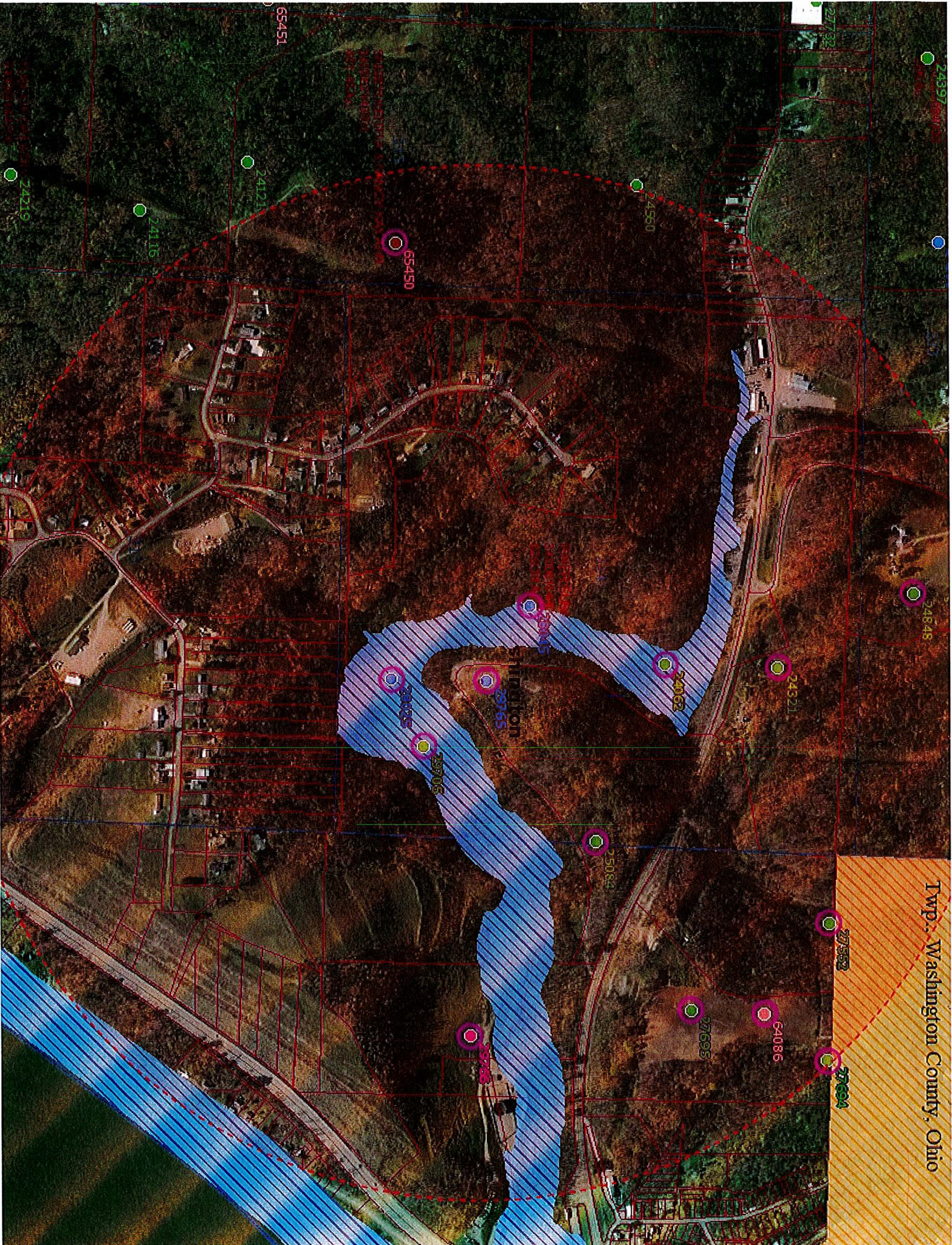
**Privileged and Confidential Information work Product Not Intended for
Publication for Use by ODNR for SWIW/UIC Permit Evaluation ONLY**

32(C). WELL, CONTRUCTION AND OPERATIONS

1. Well will be perforated casing and acidized along with limited injection testing.
2. Brine will be offloaded and stored at our Rt.7 – UIC permitted facility, brine will then transfer via pipeline.
 - i. We have in-line turbine meters at Rt. 7 discharge pumps, in addition we will install new in-line flow/volume meter at the Stephan # 1 well
- a. New pipeline will be constructed of 3" steel – welded, Class A – 2,200 PSI, enclosed in 6" – DR 17 polypipe.
- b. We have high- and low-level storage tank automatic shut-downs on our Rt.7 AST/Storage tank.
- c. We have pressure sensors, with automatic high, and low shutdowns on all discharge pumps.
- d. Our Silver Smith – Meter Central monitoring system in addition sends automated text messages for all preset levels alarms to all DeepRock managers.

DeepRock Disposal - Stephan # 1

ODNR - SWIW - Maximum Surface Injection Pressure (MAIP) Calculation											
For:											
Equations:											
$P_g = 0.433 \times SG$											
$P_m = 0.75D - P_gD$											
Values											
		0.433	=	Pressure gradient for fresh water (psi/ft)							
	SG=	1.2	=	specific gravity of injected fluid							
	D=	6165	=	Depth to highest perforation or top of open hole interval (ft)							
		0.75	=	Maximum allowable pressure gradient (psi/ft)							
	P_g =	0.5196	=	Pressure gradient of injected fluid (psi/ft)							
	P_m =	1420	=	Maximum surface injection pressure (psi)							
Calculation:											
	P_g =	0.433	x	1.2	=	0.5196					
	P_m =	0.75	x (6165) - (0.5196) x (6165) =	1420.416	psi
									Round to the nearest multiple of five =	1420	psi
Just type in the depth of the highest perforation.											





½ MILE AREA OF REVIEW WORKSHEET

Proposed New SWIW – STEPHAN #1

County: Washington

Township: Warren

Permit No.	Geologic Formation	Well construction and cementing
<u>64086</u>	<u>Macksburg ss</u>	<u>TD = 1,490 feet. Plugged and Abandoned.</u> <u></u> <u></u>
<u>24560</u>	<u>Berea Ss</u>	<u>TD = 2,301 feet. 8-5/8" – 203' 4-1/2" – 2,301'</u> <u></u> <u></u>
<u>27694</u>	<u>Gordon ss</u>	<u>TD = 2,375 feet. 8-5/8" – 267' 4-1/2" – 2,375'</u> <u></u> <u></u>
<u>27552</u>	<u>Ohio Shale</u>	<u>TD = 2,217 feet. 8-5/8" – 245' 4-1/2" – 2,220'</u> <u></u> <u></u>
<u>27695</u>	<u>Ohio Shale</u>	<u>TD = 2,396 feet. 8-5/8" – 261' 4-1/2" – 2,400'</u> <u></u> <u></u>
<u>24848</u>	<u>Berea Ss</u>	<u>TD = 2,482 feet. 8-5/8" – 200' 4-1/2" – 2,482'</u> <u></u> <u></u>
<u>29766</u>	<u>OH-CL/Med</u>	<u>Existing SWIW – 13-3/8" – 399' Cement to Surface</u> <u>9-5/8" – 2,019' Cement to Surface</u> <u>7" – 6,187' cemented w/654 sacks. Cement into 9-5/8"</u>
<u>65450</u>	<u>Berea Ss</u>	<u>TD = Unknown – I&O Program to be plugged.</u>

½ MILE AREA OF REVIEW WORKSHEET**Proposed New SWIW – STEPHAN #1**County: WashingtonTownship: Warren

Permit No.	Geologic Formation	Well construction and cementing
<u>28025</u>	<u>Gordon ss</u>	<u>Not Drilled – Permit Expired</u> <u></u> <u></u>
<u>29705</u>	<u>Macksburg ss</u>	<u>TD = 1,200 feet. 9-5/8” – 144’ 4-1/2” – 1,171’</u> <u></u> <u></u>
<u>29765</u>	<u>Berea- CL/MED</u>	<u>Well permitted – 09/15/2017 – Deep Rock now owns</u> <u>Lease – Well will not be drilled.</u> <u></u>
<u>28045</u>	<u>Berea – Gordon</u>	<u>Not Drilled – Permit Expired.</u> <u></u> <u></u>
<u>24062</u>	<u>Berea - Gordon</u>	<u>TD = 2,445 feet. 8-5/8” – 250’ 4-1/2” – 2,512’</u> <u></u> <u></u>
<u>25084</u>	<u>Berea - Gordon</u>	<u>TD = 2,345 feet. 8-5/8” – 205’ 4-1/2” – 2,350’</u> <u></u> <u></u>
<u>24321</u>	<u>Berea - Gordon</u>	<u>TD = 2,320 feet. 8-5/8” – 209’ 4-1/2” – 2,320’</u> <u></u> <u></u>

½ MILE AREA OF REVIEW WORKSHEET

Proposed New SWIW – STEPHAN #1

County: Washington

Township: Warren

Permit No. Geologic Formation

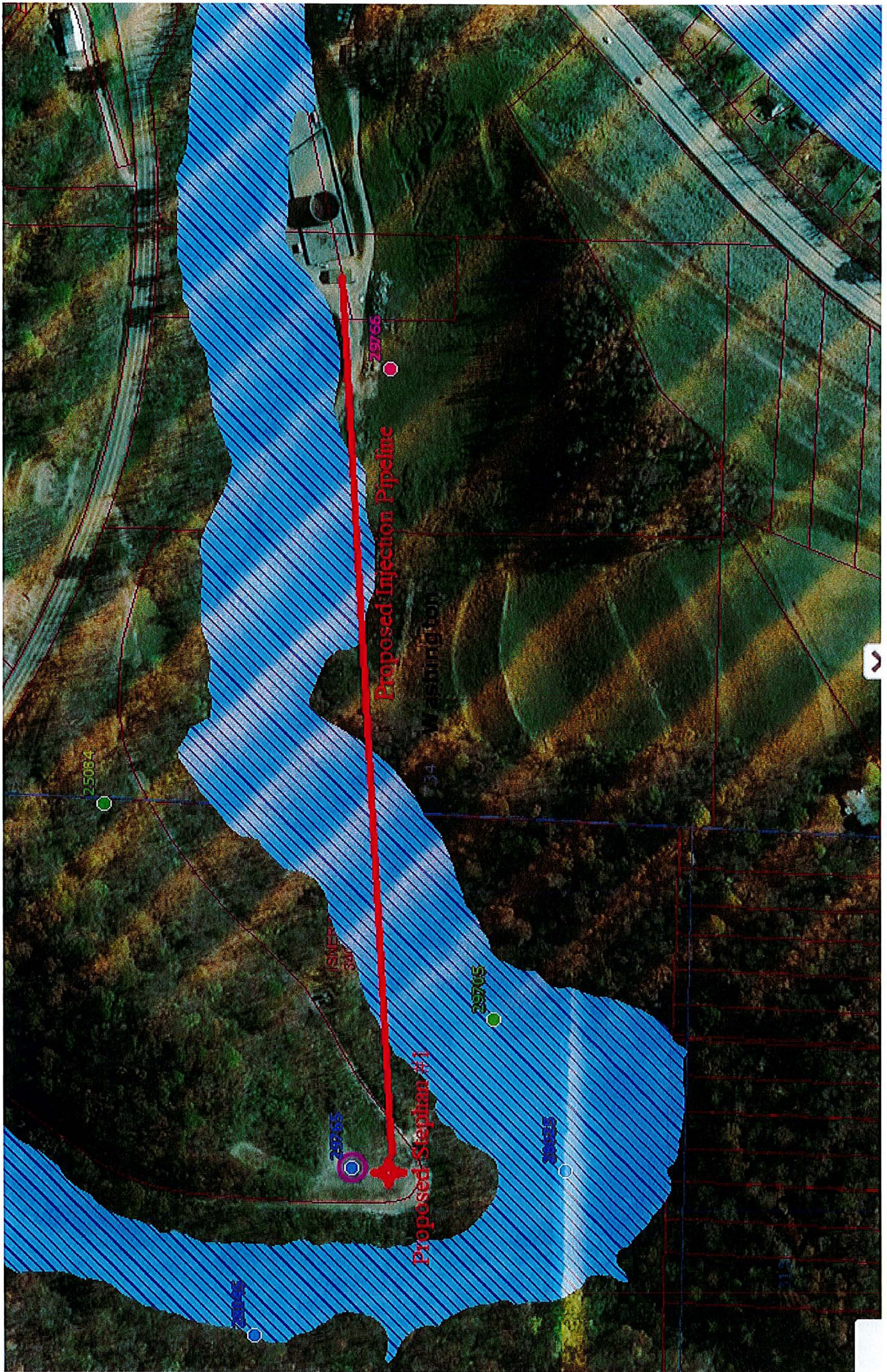
Well construction and cementing

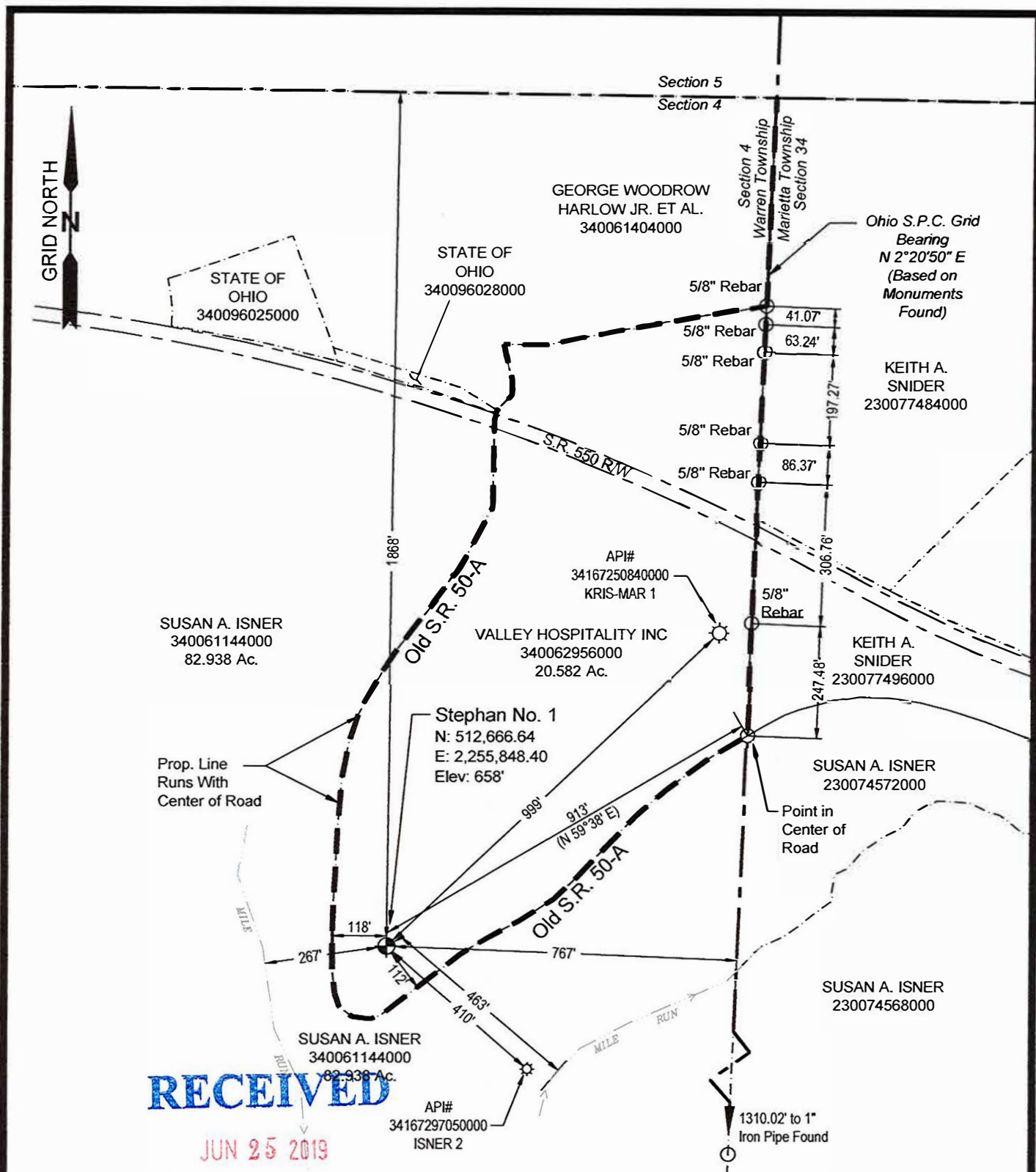
34-167-2-9766 Oriskany and Newburg

DeepRock Disposal – UIC-Class II injection well

DeepRock Disposal, drilled, owns and operates the American Growers # 1

Stephan Warren - General Manager
12/12/21





SLS
Land & Energy Development
Solutions from the ground up.
P.O. Box 150 • 12 Vashon Drive • Glenville, WV 26351 • (304) 462-5634
1412 Kanawha Boulevard East • Charleston, WV 25301
www.slsrv.com



I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION, STATE OF OHIO, DEPARTMENT OF NATURAL RESOURCES, DIVISION OF OIL AND GAS REGULATIONS.

P.S.
7999

DATE

Robert H. Roush
5-8-2019

DeepRock
DISPOSAL SOLUTIONS, LLC

LEGEND

SURFACE BOUNDARY

SECTION LINE

ROAD RIGHT OF WAY

STREAMS

FOUND MONUMENT
(AS NOTED)

PROPOSED WELL

EXISTING WELL



PIONEER ENGINEERING
& SURVEYING LLC

740-350-4003
ROBERT ROUSH

P.O. BOX 172, Beverly, OH 45715

DEEP ROCK DISPOSAL SOLUTIONS LLC
SECTION 4, TOWNSHIP 2 NORTH, RANGE 9 WEST
WARREN TOWNSHIP
WASHINGTON COUNTY, OHIO

VALLEY HOSPITALITY, INC

Drawn By: A. Boston

Date: May 7, 2019

Scale: 1" = 300'

Checked By: C.V. Moyers

Job Number: 8812

Sheet No. 1 of 2

NOTES:

- 1. THIS SURVEY WAS PERFORMED FOR THE PURPOSE OF OBTAINING A PERMIT TO DRILL A PROPOSED WELL AND TO SHOW THE PROPOSED WELL RELATIVE TO EXISTING BOUNDARIES. ALSO THE SURVEY IS TO PROVIDE STATE PLANE AND GEOGRAPHIC COORDINATES OF THE PROPOSED WELL.
- 2. PARCEL DIMENSIONS AND OWNERSHIP DATA WERE OBTAINED FROM THE COUNTY AUDITOR, TAX MAPS AND GIS DATA.
- 3. PARCEL ACREAGES SHOWN ARE FROM DEED RECORDS AND NOT VERIFIED BY SURVEY.
- 4. STREAMS SHOWN ARE BASED ON FIELD SURVEY.
- 5. TIES TO SECTION LINES ARE BASED ON MONUMENTS FOUND DURING THE FIELD SURVEY.
- 6. THE PROPOSED WELL SHOWN HEREON IS TO BE AN INJECTION WELL.

REFERENCES:

- 1. WASHINGTON COUNTY AUDITOR'S TAX MAP
- 2. DEEDS OF RECORD FROM THE COUNTY RECORDER'S OFFICE.
- 3. AERIAL MAPPING FROM THE WASHINGTON COUNTY, OH GIS WEBSITE AT <http://www.washingtoncountyauditor.us/Map.aspx>
- 4. USGS QUADRANGLE: MARIETTA 7.5'
- 5. TITLE INFORMATION SUPPLIED BY THE CLIENT.

OPERATOR: DEEP ROCK DISPOSAL SOLUTIONS LLC

LAND OWNER(S):

SURFACE: VALLEY HOSPITALITY, INC
MINERAL: LOUIS G. STEPHAN, III AND RITA STEPHAN, H/W

WELL NAME: STEPHAN
WELL NUMBER: 1
COUNTY: WASHINGTON
MUNICIPALITY: MARIETTA TOWNSHIP
U.S.G.S. QUAD: MARIETTA 7.5'
OHIO STATE PLANE GRID:
COORDINATES OH-S NAD 83
N: 512,666.64
E: 2,255,848.40
LAT: 39-24-11.33
LONG: 81-28-59.03
COORDINATES OH-S NAD 27
N: 512,628.80
E: 2,287,312.24
LAT: 39-24-11.06
LONG: 81-28-59.59

ELEVATION:

658' NAVD 88

RECEIVED

JUN 25 2019

WELL TYPE

OIL OR GAS: _____ NEW LOCATION: _____ OTHER: X

SURVEY CERTIFICATION:

THIS WELL LOCATION PLAT MEETS THE SPECIFICATIONS SET FORTH IN OHIO ADMINISTRATIVE CODE 1501:9-1. THIS PLAT IS NOT A BOUNDARY SURVEY AS SPECIFIED IN OHIO ADMINISTRATIVE CODE 4733 AND IS SUBJECT TO ALL FACTS REVEALED BY TITLE EXAMINATION.



I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DMSION OF ENVIRONMENTAL PROTECTION, STATE OF OHIO, DEPARTMENT OF NATURAL RESOURCES, DIVISION OF OIL AND GAS REGULATIONS.

P.S. 7999 Pete H. Bush
DATE 5-8-2019



PIONEER ENGINEERING
& SURVEYING LLC
740-350-4003
ROBERT ROUSH
P.O. BOX 172, Beverly, OH 45715

DEEP ROCK DISPOSAL SOLUTIONS LLC
SECTION 4, TOWNSHIP 2 NORTH, RANGE 9 WEST
WARREN TOWNSHIP
WASHINGTON COUNTY, OHIO

VALLEY HOSPITALITY, INC

Drawn By: A. Boston	Date: May 7, 2019	Scale: 1" = N.T.S.
Checked By: C.V. Moyers	Job Number: 8812	Sheet No. 2 of 2

RESTORATION PLAN (Form 4)

Ohio Department of Natural Resources

Division of Oil and Gas Resources Management, 2045 Morse Road, Bldg. F-2, Columbus OH 43229-6693

1. DATE OF APPLICATION: June 25, 2019		3. API #:	
2. OWNER NAME, ADDRESS, & TELEPHONE NO.: Deep Rock Disposal Solutions, LLC 637 State Route 821, Complex 1, Building 1 Marietta, Ohio 45750 (740) 371-5078		4. WELL #: 1	
		5. LEASE NAME: Stephan	
		6. PROPERTY OWNER: Valley Hospitality, Inc.	
		7. COUNTY: Washington	
		8. CIVIL TOWNSHIP: Warren	
		9. SECTION: 4	
		10. LOT:	
11. CURRENT LAND USE: <input type="checkbox"/> Cropland <input type="checkbox"/> Pasture <input type="checkbox"/> Wetlands <input type="checkbox"/> Residential <input type="checkbox"/> Unreclaimed strip mine <input type="checkbox"/> Woodland: <input type="checkbox"/> Broadleaf <input type="checkbox"/> Needlelike <input type="checkbox"/> Commercial <input checked="" type="checkbox"/> Idle Land <input type="checkbox"/> Recreational <input type="checkbox"/> Industrial		17. TYPE OF WELL: <input type="checkbox"/> Oil <input type="checkbox"/> Gas <input checked="" type="checkbox"/> Other	
		18. STEEPEST SLOPE GRADIENT CROSSING SITE: <input checked="" type="checkbox"/> 0 to 2% <input checked="" type="checkbox"/> 2.1 to 8% <input type="checkbox"/> 8.1 to 10% <input type="checkbox"/> greater than 24% <input type="checkbox"/> 10.1 to 24%	
12. SLOPE GRADIENT & LENGTH DETERMINED FROM: <input type="checkbox"/> Ground Measurement <input checked="" type="checkbox"/> U.S. Geological Survey Topographical Maps <input type="checkbox"/> Other: (explain)		19. LENGTH OF STEEPEST SLOPE CROSSING SITE: <input checked="" type="checkbox"/> 1 to 100 ft. <input type="checkbox"/> 101 to 200 ft. <input checked="" type="checkbox"/> 201 to 400 ft. <input type="checkbox"/> greater than 400 ft.	
13. TYPE OF FALL VEGETAL COVER: <input type="checkbox"/> Little or no vegetal cover <input checked="" type="checkbox"/> Short grasses <input type="checkbox"/> Tall weeds or short brush (1 to 2 ft.) <input checked="" type="checkbox"/> Brush or bushes (2 to 6 ft.) <input type="checkbox"/> Agricultural crops <input type="checkbox"/> Trees with sparse low brush <input type="checkbox"/> Trees with dense low brush		20. RESTORATION OF DRILLING PITS: ** <input checked="" type="checkbox"/> Haul drilling fluids and fill pits <input type="checkbox"/> Use steel circulating tanks <input type="checkbox"/> Proposed alternative	
14. SOIL & RESEALING MATERIAL AT WELLSITE: <input checked="" type="checkbox"/> Stockpile and protect topsoil to be used when preparing seedbed <input type="checkbox"/> Use of soil additives (e.g., lime, fertilizer) <input type="checkbox"/> No resealing planned <input type="checkbox"/> Proposed alternative		21. BACKFILLING AND GRADING AT SITE: <input type="checkbox"/> Construct diversions channeled to naturally established drainage systems <input type="checkbox"/> Construct terraces across slopes <input checked="" type="checkbox"/> Grade to approximate original contour <input type="checkbox"/> Grade to minimize erosion & control offsite runoff <input type="checkbox"/> Proposed alternative	
15. DISPOSAL PLAN FOR TREES AND TREE STUMPS: <input checked="" type="checkbox"/> No trees disturbed <input type="checkbox"/> Cut into firewood <input type="checkbox"/> Bury with landowner's approval <input type="checkbox"/> Mulch small trees and branches, erosion control <input type="checkbox"/> Use for wildlife habitat with landowner approval <input type="checkbox"/> Proposed alternative <input type="checkbox"/> Haul to landfill <input type="checkbox"/> Sell to lumber company		22. VEGETATIVE COVER TO BE ESTABLISHED AT SITE: <input checked="" type="checkbox"/> Seeding plan <input type="checkbox"/> Agricultural crops <input type="checkbox"/> Proposed alternative <input type="checkbox"/> Sod <input type="checkbox"/> Trees and/or Bushes	
16. SURFACE AND SUBSURFACE DRAINAGE FACILITIES: <input checked="" type="checkbox"/> No existing drainage facilities for removal of surface and/or subsurface water <input type="checkbox"/> Tile drainage system underlying land to be disturbed <input type="checkbox"/> Drain pipe(s) underlying land to be disturbed <input type="checkbox"/> Surface drainage facilities on land to be disturbed		23. ADDITIONAL HOLES: <input type="checkbox"/> Rat/Mouse, if used, will be plugged	
		24. PROPOSED OR CURRENT LENGTH OF ACCESS ROAD: <input type="checkbox"/> 100 ft. or less <input checked="" type="checkbox"/> 501 to 1500 ft. <input type="checkbox"/> 101 to 500 ft. <input type="checkbox"/> greater than 1500 ft.	
		25. CURRENT LAND USE OF PATH OF ACCESS ROAD: <input type="checkbox"/> Cropland <input checked="" type="checkbox"/> Idle land <input type="checkbox"/> Industrial <input type="checkbox"/> Unreclaimed strip mine <input type="checkbox"/> Woodland: <input type="checkbox"/> Broadleaf <input type="checkbox"/> Needlelike <input type="checkbox"/> Pasture <input type="checkbox"/> Wetlands <input type="checkbox"/> Residential <input type="checkbox"/> Commercial <input type="checkbox"/> Recreational	

**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.

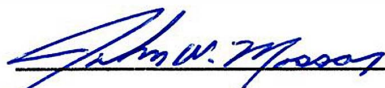
RECEIVED

JUN 25 2013

26. SURFACING MATERIAL FOR ACCESS ROAD: <input checked="" type="checkbox"/> Gravel <input type="checkbox"/> Slag <input type="checkbox"/> No surfacing material to be used <input type="checkbox"/> Proposed alternative <input type="checkbox"/> Brick and/or tile waste <input type="checkbox"/> Crushed stone	29. STEEPEST SLOPE GRADIENT ON ACCESS ROAD: <input checked="" type="checkbox"/> 0 to 5% <input type="checkbox"/> 6 to 10% <input type="checkbox"/> greater than 10%
27. PATH OF ACCESS ROAD TO BE DETERMINED BY: <input type="checkbox"/> Landowner <input checked="" type="checkbox"/> Existing access road <input type="checkbox"/> Contractor <input type="checkbox"/> Operator	30. APPROXIMATE LENGTH OF STEEPEST SLOPE ON ROAD: <input checked="" type="checkbox"/> 0 to 100 ft. <input type="checkbox"/> 201 to 400 ft. <input type="checkbox"/> 101 to 200 ft. <input type="checkbox"/> greater than 400 ft.
28. GRADING AND EROSION CONTROL PRACTICE ON ROAD: <input type="checkbox"/> Diversions <input type="checkbox"/> Drains <input type="checkbox"/> Open top culverts <input checked="" type="checkbox"/> Outsloping of road <input type="checkbox"/> Pipe culverts <input type="checkbox"/> Proposed alternative <input type="checkbox"/> Filter strips <input type="checkbox"/> Riprap <input type="checkbox"/> Water breaks	31. HAS LANDOWNER RECEIVED A COPY OF THIS RESTORATION PLAN? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

The undersigned hereby agrees to implement all restoration operations identified on this form, and conform to all provisions of Section 1509.072 of the Ohio Revised Code, and to all Orders and rules issued by the Chief, Division of Oil and Gas Resources Management.

Signature of Owner/Authorized Agent



Name (Typed or Printed)

John W. Mosser

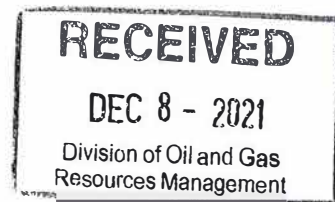
Date

06/25/2019

RESTORATION PLAN MUST BE SUBMITTED TO THE DIVISION IN DUPLICATE.



OHIO DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL & GAS RESOURCES MANAGEMENT
2045 MORSE RD., F-2, COLUMBUS, OH 43229-6693 • (614) 265-6922



SALTWATER INJECTION WELL AFFIDAVIT

(REVISED 0415)

State of Ohio Washington County,
John W. Mosser being

first duly sworn says that as principal, or authorized agent, for Deep Rock Disposal Solutions, LLC, he or
she has made application for a saltwater injection well in the State of Ohio Washington
County, Warren Township, section/lot number Section 4; and

further certifies that notice of application has been delivered to each individual entitled to personal notification
in accordance with paragraph (H) of Rule 1501:9-3-06 of the Ohio Administrative Code.

And further affiant saith not.

[Signature]
AFFIANT SIGNATURE

Sworn to before me and subscribed in my presence this 30th day of November, 2021.



ANN E KERENYI
Notary Public - State of Ohio
My Commission Expires
February 13, 2023

[Signature]
NOTARY PUBLIC