



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

See Instruct	tions on page 4.						
Applicant	DeepRock Dis	posal Solutions L	LLC.	Owner #:	9896		
Address:	637 State Rout	:e 821		Phone:	740-371-5078	3	
	Marietta	О	OH 45750	Email:	wesm@deepro	ockds.com	
Applicant	hereby applies	s on 11/30/202	1 for a permit to	2. Mail F	ermit to:		
1. Type o	of Permit:		<u></u>	Deepl	Rock Disposal S	olutions L	LC.
∑ Dr	fill a New Well	Reissu	ie Plug Back	637 St	ate Route 821		
	evise Location	Conve	rt Reopen	Marie	tta	0	OH 45750
De	eepen			3. Orien	tation of Well		
Previously	y Issued API#	:		[∑]V€	ertical	Direction	nal Other
4. Well T	уре:						
XSa	altwater Injection	n C	Choose all that apply:				
Sc	lution Mining		Input/Injection	Observation	1		
Er	hanced Recov	very	Water Supply	Production/	Extraction		
5 Is the	well or surfac	e facility locat	ed within an urbanized	area as def	ined by ORC	1509.010	Y)?
Ye			f Urbanized Area:				. , .
6 Moll In	nformation:						
		·					
Well N	lame: Amer	rican Growers	Ī		Well Number:	3	
Sectio	n/Lot #: 4	2,1	City/Village/Township:	Warren		County:	Washington
7. Propo	sed Depth an	d Geological F	ormation:				
Propo	sed Total Dept	th: 6,500'	Proposed geol	logical forma	tion(s) to he us	sed as the	e injection
Subjec	ct Tract Acres:		C-C*-01	Territory.		<u> </u>	<u>/ III/COLIOTI</u>
		rget Formation:	zone: Oriskany	-through-Me	dina		
_ op		90110111111111	5,020				
		ner Information					
Does			rest within the proposed	subject tract	?		
Ye	s No	If Yes, Name of	f Agency:				
			by the State of Ohio in th	nis subject tra	act?		
 Ye	s <u>No</u>	If Yes, Name of	f Agency:				

Application for ORC 1509.06

Underground Injection

Control Permit (UIC 1)

9.	Water Source for Production Operations: ORC 1509.01 (AA)														
	0	PTIONA	4L Latitud	e:			Loi	ngitu	de:						
	Water Sour	ce: N	Municpal -	City of	Mariet	ta-(Source)	Seve	en pro	ductio	n water	wells f	rom sa	nd & gravel aquifer		
	Watershed:														
	Estimated Withdrawal Rate: 10,000 GAL/DAY e.g. Recycled water or water from a non-Ohio watersh											hed			
	Estimated 7	Total V	/olume:	100	,000		G/	AL							
	If Recycled Water, Estimated Total Volume:														
10.	Jurisdictio	nal Fn	nergency	/ Cont	acts fo	r the Wel	l Site	e:			_				
	our lour our our or		nergene,	Come	1010 10	- 110 1101	. 010		NAME				PHONE NUMBER (NOT 9	11)	
	Fire Depart	tment:				Reno - VI	FD.						740-373-9800		
Sheriff's Office or Police Department: Washington County She								Sherif	f			740-373-7070			
	Closest Medical Facility: Marietta Memorial Hospital 740-374-1400									740-374-1400					
	County EMA Director: OPTIONAL Rich						ich Hays						740-373-5613		
	Local Emergency Planning Committee: OPTIONAL												740-373-5613		
11.	24 Hour E	merge	ency Cor	ntact:											
	Company Name: DeepRock Disposal Solutions														
	Contact Na	ame:	Dave	Casto						Title	: Oper	ations	Manager		
	24-Hour Pl	hone N	Number:	740-37	1-5078			E	Email A	Address	dave	c@dee	eprockds.com		
	Please attacl	h name a	and contac	t informa	tion for a	ny additiona	l eme	rgenc	y contac	cts.					
12.	Well Site	Access	s:	1.0											
	Describe in	ngress	/egress r	oute:	enter pr	operty/leas	e roa	d off	on OH	St.Rt7					
	Location (N	VAD83	3) of well	site en	trance f	from a pul	blic r	oad:			_				
	Latitude:	39-23	-20.76			Longitud	le: 8	1-29-	11.55						
13.	Other Attac	chmer	nts							_					
	Choose the appropriate supplemental form: Form 210 (SWIW) and required attachments Form 203 (ERP) and required attachments Form 206 (SMP) and required attachments Restoration Plan (Form 4) Completion Report (Form 8) if conversion If in an Urbanized Area: Required Maps Required Notification and List														

14. Well Construction:

		EHOLE	CA	SING	CEM	ENT	7
TYPE CASING	DIAMETER	DEPTH FT	DIAMETER ///	DEPTH FT	TOP FT	VOLUME SACKS	FORMATION
Drive Pipe							
Conductor	24"	100'	20"	100'	SURFACE	106	
Mine String			7.				
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 THE 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				6,135'			

TYPE CASING	DRILLING EQUIPMENT	NUMBER OF CENTRALIZERS	TESTED?	PRODUCED?	HYDRAULIC FRACTURING?
Drive Pipe			Yes	Yes	Yes
Conductor			Yes	Yes	Yes
Mine String			Yes	Yes	Yes
Surface	Air & Fuild Rotary Rig	1	Yes	Yes	Yes
Intermediate 1	Air & Fuild Rotary Rig	2	Yes	Yes	Yes
Intermediate 2			Yes	Yes	Yes
Production 1	Air & Fuild Rotary Rig	4	Yes	Yes	Yes
Production 2			Yes	Yes	Yes
Open Hole			Yes	Yes	Yes
Liner			Yes	Yes	Yes
Tubing	Service Rig	6	Yes	Yes	Yes
Packer	Service Rig set packer		Yes	Yes	Yes

15. Signatures

I, the undersigned, being first duly swom, 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.

John W. Mossor Jr.

General Manager

NAME Type or Print

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



Swom to before me and subscribed in my presence on this

SEND ALL ATTACHMENTS AND FEES TO:

2045 MORSE ROAD BUILDING F

COLUMBUS OH 43229

OHIO DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL & GAS RESOURCES MANAGEMENT

My commission expires

Instructions

- 1. Drill, Reopen, Deepen, Plug Back, and Convert an Oil and Gas Well (non-urban valid for 24 months; urban valid for 12 months)
 - a. Original Application for a Permit (Form 1)
 - b. Original of an Ohio registered surveyor's plat
 - c. Original of the Restoration Plan (Form 4)
 - d. Reopen, Deepen, Plug Back and Convert require a copy of the Well Completion Record (Form 8)
 - e. 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

- a. Same as above: 1 (a), (b), (c), (d), (f)
- b. 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.

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.	PRC	DPOSED INJECTION ZONE:
	Geo	ological Formation: Orskany, through Medina
32.	njec	tion Well Interval: FROM 4.549.00 FEET TO 6.325.00 FEET
	Geo	ologic description of injection zone:
	Li.m	estone, _ Dolo mi.t e andandstoneComposition of Proposed Fluids
	to b	e Injected: (CHECK ALL THAT APPLY)
	⊠Ві	rine ☑ Flow-Back Drilling ☐ Fluids ☑ Other Approved Fluids
33.	WEI	LL CONSTRUCTION AND OPERATION:
	Α.	Description of the proposed casing and cement program for new wells, or of the casing, camenting or sealing with prepared clay for SEE ATTACHED and subsurface contruction (page 2 of form 210) existing wells to be converted:
	В.	Proposed method for testing the casing:
		Load the 7" casing wffresh water & inhibitor, pressure up (ODNR provided maximum pressure)
		using a pump truck w/recorder and chart, monitor pressure to and 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 proforated and acid frac-ed
	D.	Description of the proposed unloading, surface storage, and spill containment facilities: Brine will be offload and stored at our UIC approved facility (Rt.7)
		Well will be operated as part of our ODNR - UiC approved facility (Rt.7 - offloading and storage) and connected vie. new constructed cipeline
33.	PR	OPOSED INJECTION VOLUMES
	Α.	Indicate the estimated amount of saltwater to be injected into the proposed injection well per day: AVERAGE: 3,000 MAXIMUM: 5,000
	В.	Indicate the method to be used to measure the actual daily injection pressure: Well will be connected/added to our Silver Smith - Meter Central scada/monitoring system. We will use both transducers and a "barton" meter and in-line flow meter
34.	PR	OPOSED INJECTION PRESSURES
		Indicate the estimated pressure to be used for injection of saltwater into the proposed injection well:
	,	AVERAGE: MAXIMUM:
		SEE ATTACHED.
25	PP	OPOSED CORRECTIVE ACTION
3 5.		plain any corrective action proposed for wells penetrating the proposed injection formation or zone within the area of review;
	Ac	ccording to our area of review study, there are no wells in question

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

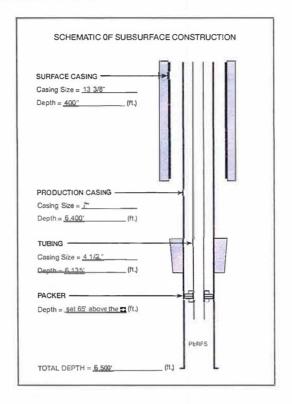
Label the schematic drawing below indicating size and setting depth of surface casing, intermediate (if any) and production casings; amount of cement used, measured or calculated tops of cement; size and setting depth of tubing; type and setting depth of packer; geologic name of injection zone showing 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 Manager Title: General Manager	
Permanent Address of Home Office: 637 State Route 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 30th day of November	

ARIAL SULVENING OF STEED STEED OF STEED STEED

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

2-13-23

Date Commission Expires

DeepRock Disposal American Growers # 3 Permit Appalachian

32. (D). Description of proposed unloading, surface, and spill containment.

- A. Brine will be offloaded and stored at our Rt.7 UIC permitted facility, brine will then transfer vie. pipeline.
 - We have in-line turbine meters at Rt. 7 discharge pumps, in addition we will install new in-line flow/volume meter at the American Growers # 3 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/Storge 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 mangers.

DeepRock Disposal American Growers # 3 Permit Appalachian

34. PROPOSED INJECTION PRESSURES

- A. Indicate the estimated pressure to be used for injection of saltwater into the proposed injection well:
- 1. If completed in Oriskany, top perf @ 4,549 a. Average: 1,020 Maximum: 1,050
- 2. If completed only in the Clinton-Medina, top perf @ 6,200
 - a. Average: 1,400 Maximum: 1,430

DeepRock Disposal

American Growers #3

Washington County - Warren Township - Section 4

STRUCTURAL	DEPTHS	FORMATION TOPS	
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	6,500'		

Гуре	Hole Size	Pipe Size	Casing Depth	
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"	6,450"	
Tubing				
	4 1/2"			Set on packer "65" above highest perforation

Cementing Program	
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 Diposal - American Growers # 3 - SWIW

- אווטט	300100	- IVIAXII	nunn	Julia	ce II	jection Pr	cssur	e (IVIAIP)	Caici	uiation	
					Fo	r:					
Equations:											
				P _G	=0.43	33 x SG					
				P _m	=0.75	5D-P _G D					
Values											
		0.433	= Pr	essure	gradi	ient for fre	sh wat	er (psi/ft)			
	SG=	1.2	= sp	specific gravity of injected fluid							
	D=	6200	= De	= Depth to highest perforation or top of open ho							(ft)
		0.75	= M	= Maximum allowable pressure gradient (psi/ft)							
	P _G =	0.5196	= Pr	= Pressure gradient of injected fluid (psi/ft)							
	P _m =	1430	= M	aximur	n sur	face injecti	on pre	essure (psi)			
Calculation	:										
P _G =	0.433	x		1.2	=	0.5196					
P _m =	0.75	× (6200) - (0.5196) x (6200) =	1428.48	ps
				Ro	und	to the near	est m	ultiple of fi	ve =	1430	ps
										5125	
							-				

DeepRock Diposal - American Growers # 3 - SWIW

ODAID			LETED AS C				(DAAID)	Calc	.latian	
- אמעט	SWIM	- IVIAXII	num Surfa	ice in	jection Pr	essure	(IVIAIP)	caicu	liation	
				For	·:					,
Equations:										
	17		Pa	=0.43	3 x SG					
			P.,	=0.75	D-P _G D					
				į – Į		e ja				
Values										
- 31000		0.433	= Pressure	gradi	ent for fre	⊥ sh wate	er (psi/ft)			
	SG=	1.2		= specific gravity of injected fluid						
	D=	4549	= Depth to highest perforation or top of open ho						ole interval	(ft
		0.75	= Maximum allowable pressure gradient (psi/ft)							Ì
	P _G =	0.5196		= Pressure gradient of injected fluid (psi/ft)						
	P _m =	1050		= Maximum surface injection pressure (psi)						
Calculation				1					110/2	-
	0.433	Χ	1.2	=	0.5196					-
P _m =	0.75	x (0.5196) x (4549) =	1048.09	ns
· m					to the near				1050	-
	1	4	K	Juliu t	.o the near	est mu	inhie of II	ve =	1030	hz
						-				
								1		
	15-11			-		. 22 10				
			he highest							-



SALTWATER INJECTION WELL AFFIDAVIT

(REVISED 0415)

State of	Ohio	Washington	County,
	Mossor Jr.		being
first dul	y sworn says that as principal, or	authorized agent, for	
she has	made application for a saltwater	injection well in the State of Ohio Washington	
County,	Warren	_ Township, section/lot number	; and
further	certifies that notice of application	has been delivered to each individual entitled to	personal notification
in accor	rdance with paragraph (H) of Rule	1501:9-3-06 of the Ohio Administrative Code.	
And fur	ther affiant saith not.	APPIANT SIGNATURE	
Sworn t	to before me and subscribed in m	y presence this day of	rember, 2021.
ARIAL	ANN E KERENYI Notary Public - State of Ohio My Commission Expires February 13, 2023	NOTARY PUBLIC	S



OHIO DEPARTMENT OF NATURAL RESOURCES DI VISIONOF OIL & GAS RESOURCES MANAGEMENT 2045 MORSERD., F-2, COLUMBUS, OH 43229-6693 Phone: (614) 265-6922 • Fax: (614) 265-6910



LANDOWNER FEE SIMPLE OWNERSHIP AFFIDAVIT

(REV0412)

					Application No.			
					,	(To b	e filled in by the Di	ivision)
STATE OF	<u>OHi</u>	0		_ ss:				
COUNTY OF	Was	shington						
NAME OF LANG	NOC	NER:	V-M Mil eRun LLC	- V-M	Management Solutio	ns LLC_		
ADDRESS OF L	AND	OWNER:	P.O. Box 37 M	/lariett	a, OH 45750			
Being first duly	sworr	n accord	ling to law, depose	e and	say that they are t	he own	ers of the following	g
described real	estate							
Locate	d in	USGS	S. Quad - Fleming 7.	5			Quarter of	
Section		4						
Fraction		War-			, Warren		Township,	
Wash ing		18	Col	unty,				
		tify that	5 S S S S S S S S S S S S S S S S S S S	1552	the property in fee	cimple	including the coal	
			is to the drilling of		American Growe			, by the
Further affiant s Signatures:		(Compa	any)	Juni	on said premis	363.		
Signatures:								
Signatures:								
SWORN to before Notary Public:	1	\wedge	ubscribed in my pr	resend	ce this 15 th Da	ay of _	ANN E KEI	tate of Ohio
DNR-744-7001 (REV041)	2)				*		* My Commission February 13	n Expires

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

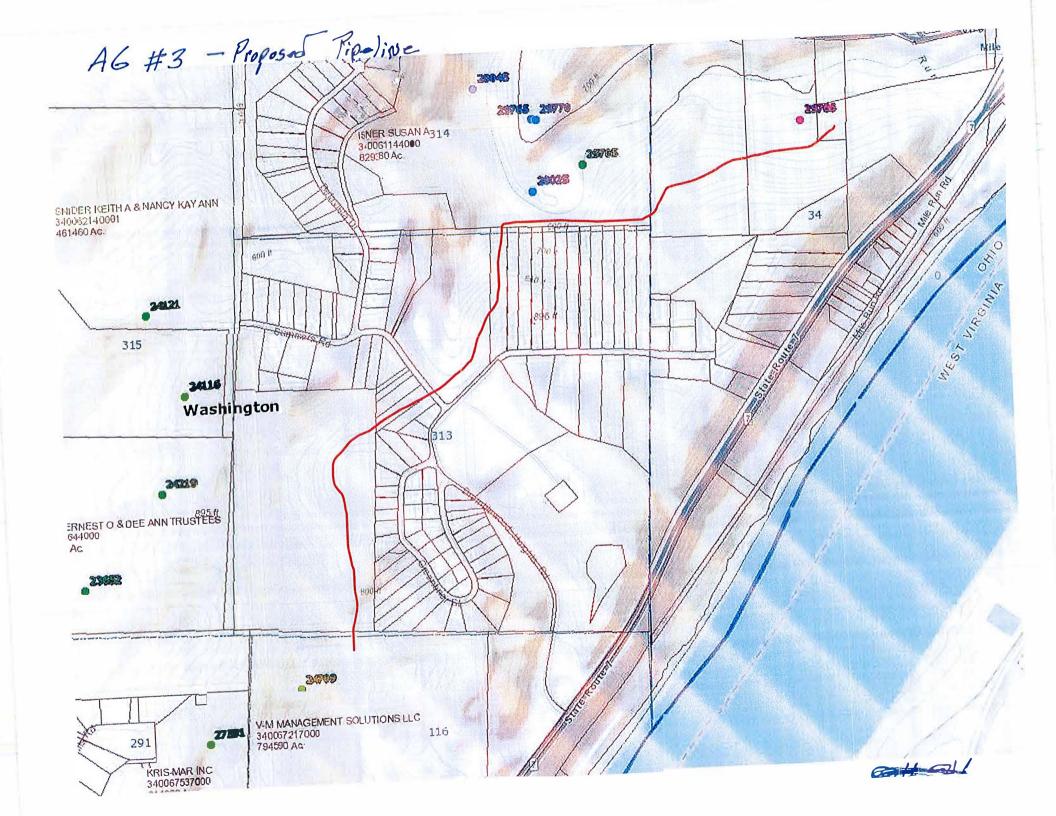
1. DATE OF APPLICATION: November 30, 2021				
2. OWNER NAME, ADDRESS, & TELEPHONE NO.:	3. API#:			
Deep Rock Disposal Solutions, LLC	4. WELL#: 3			
637 State Route 821, Complex 1, Building 1	5. LEASE NAME: American Growers			
Marietta, Ohio 45750 (740) 371-5078	6. PROPERTY OWNER: V-M Mile Rum LLC V-M Management Solutions			
(140) 371-3076	7. COUNTY: Washington			
	8. CIVIL TOWNSHIP: Warren 9. SECTION: 4 10. LOT:			
11. CURRENT LAND USE:	9. SECTION: 4 10. LOT: 17. TYPE OF WELL:			
Cropland Commercial Pasture Idle Land	Oil Gas Other			
Wetlands Recreational	18. STEEPEST SLOPE GRADIENT CROSSING SITE:			
Residential Industrial	✓ 0 to 2% ✓ 2.1 to 8%			
Unreclaimed strip mine Woodland: Broadleaf Needlelike	8.1 to 10%			
Woodiand. Broadlean Needletike	10.1 to 24% greater than 24%			
12. SLOPE GRADIENT & LENGTH DETERMINED FROM: Ground Measurement	19. LENGTH OF STEEPEST SLOPE CROSSING SITE:			
✓ U.S. Geological Survey Topographical MapsOther: (explain)	1 to 100 ft. 101 to 200 ft. 101 to 200 ft. 101 to 200 ft. 101 greater than 400 ft.			
13. TYPE OF FALL VEGETAL COVER: Little or no vegetal cover Short grasses Tall weeds or short brush (1 to 2 ft.)	20. RESTORATION OF DRILLING PITS: ** Haul drilling fluids and fill pits Use steel circulating tanks Proposed alternative			
Brush or bushes (2 to 6 ft.)				
Agricultural crops Trees with sparse low brush Trees with dense low brush	21. BACKFILLING AND GRADING AT SITE: Construct diversions channeled to naturally established drainage			
14. SOIL & RESOILING MATERIAL AT WELLSITE: Stockpile and protect topsoil to be used when preparing seedbed Use of soil additives (e.g., lime, fertilizer)	systems Construct terraces across slopes Grade to approximate original contour Grade to minimize erosion & control offsite runoff Proposed alternative			
No resoiling planned	22. VEGETATIVE COVER TO BE ESTABLISHED AT SITE:			
Proposed alternative 15. DISPOSAL PLAN FOR TREES AND TREE STUMPS: No trees disturbed Haul to landfill	Seeding plan Agricultural crops Proposed alternative Sod Trees and/or Bushes			
Cut into firewood Sell to lumber	23. ADDITIONAL HOLES:			
Bury with landowner's approval company	Rat/Mouse, if used, will be plugged			
Mulch small trees and branches, erosion control Use for wildlife habitat with landowner approval Proposed alternative	24. PROPOSED OR CURRENT LENGTH OF ACCESS ROAD: 100 ft. or less 101 to 500 ft. 501 to 1500 ft. greater than 1500 ft.			
16. SURFACE AND SUBSURFACE DRAINAGE FACILITIES: 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	25. CURRENT LAND USE OF PATH OF ACCESS ROAD: Cropland Pasture Commercial Idle land Wetlands Recreational Industrial Residential Unreclaimed strip mine Woodland: Broadleaf 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 -- 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.

26. SURFACING MATERIAL FOR ACCESS ROAD: Gravel Slag Crushed stone No surfacing material to be used Proposed alternative	29. STEEPEST SLOPE GRADIENT ON ACCESS ROAD: 0 to 5% 6 to 10% greater than 10%
27. PATH OF ACCESS ROAD TO BE DETERMINED BY: Landowner Existing access road Operator	30. APPROXIMATE LENGTH OF STEEPEST SLOPE ON ROAD: 101 to 200 ft. 201 to 400 ft. greater than 400 ft.
28. GRADING AND EROSION CONTROL PRACTICE ON ROAD: Diversions Drains Open top culverts Outsloping of road Pipe culverts Proposed alternative	31. HAS LANDOWNER RECEIVED A COPY OF THIS RESTORATION PLAN? Yes No
The undersigned hereby agrees to implement all restoration operations identified Revised Code, and to all Orders and rules issued by the Chief, Division of Oil and	
Signature of Owner/Authorized Agent	Joseph Jo
Name (Typed or Printed) John W. Massage	Date 1/2.30-7.021

RESTORATION PLAN MUST BE SUBMITTED TO THE DIVISION IN DUPLICATE.





Ohio Oil & Gas Wells

ODNR - Division of Oil & Gas

- Legend & Layers
- County Bookmarks
- Other Tools
 - Address/Coordinate Search

Example: -83.000, 40.000

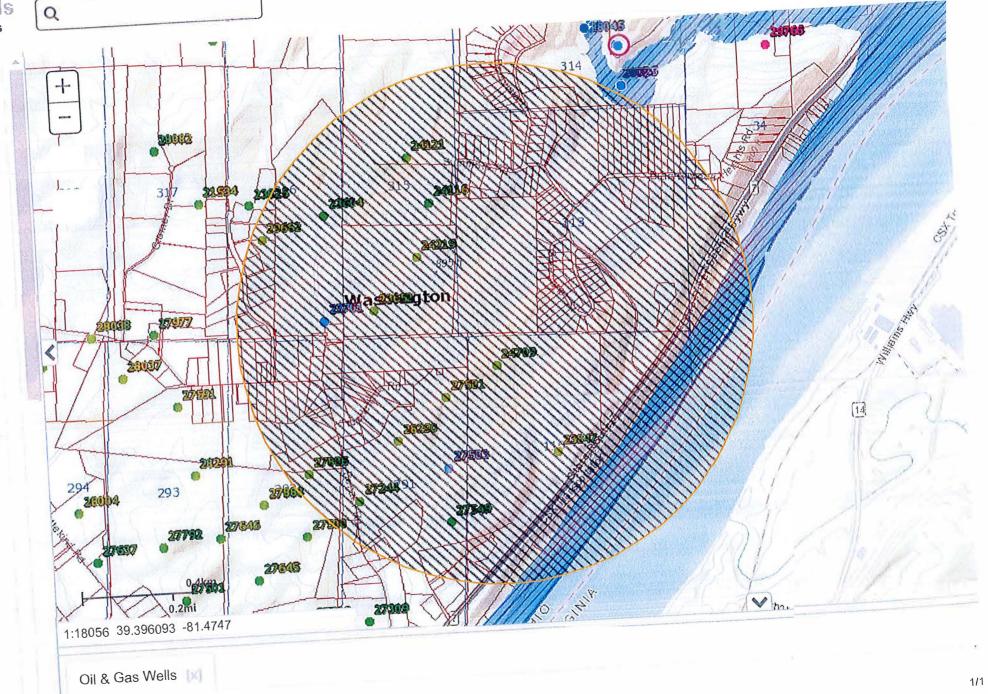
Measurement

Measurement Result

Draw

E

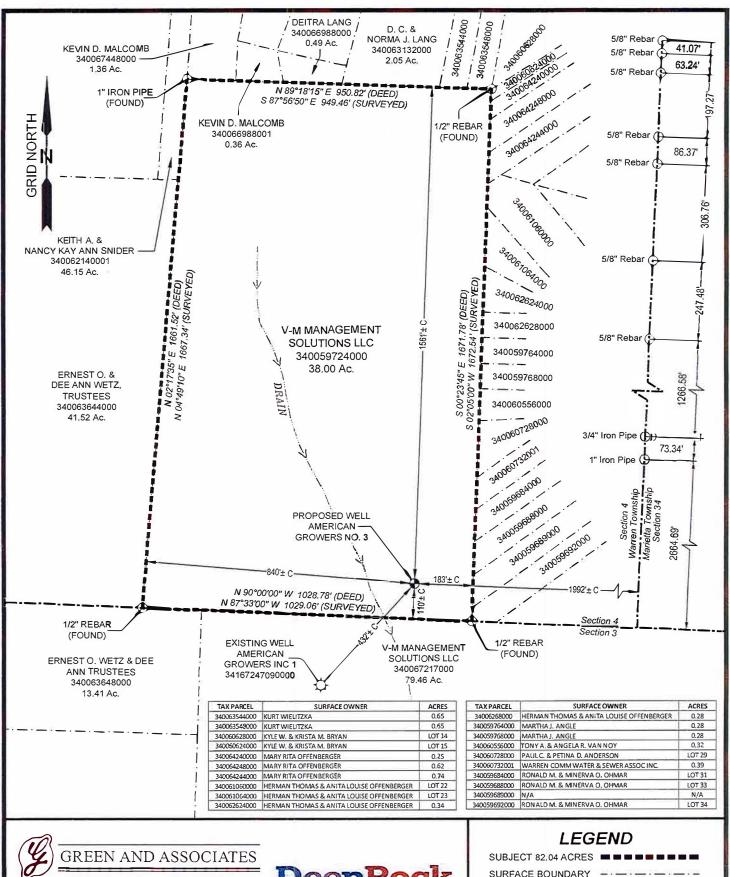
Current draw mode: None



DeepRock Disposal

American Growers # 3 Area of Review

		WELL	PRODUCING	
PERMIT #	WELL NAME	NUMBER	FORMATION	OPERATOR - COMPANY
34-167-2-4121	C. Harris	4	Berea	Stonebridge Operating Co
34-167-2-4116	C. Harris	3	Berea	Stonebridge Operating Co
34-167-2-3604	C. Harris	1	Berea	Stonebridge Operating Co
34-167-2-9662	Wilfong Unit	3	Medina	Heinrich Enterprises
34-167-2-3652	McGraw	1	Berea	Stonebridge Operating Co
34-167-2-2370	NOT DRILLED			
34-167-2-4709	American Growers	1	Berea	Kroll Energy
34-167-2-3847	American Growers	2	Berea	Kroll Energy
34-167-2-7549	Kris-Mar	3	Berea	Beardmore Oil & Gas
34-167-2-7581	Kris-Mar	7	Berea	Beardmore Oil & Gas
34-167-2-7282	Kris-Mar	19	Berea	VIRCO Inc.
34-167-2-7886	Kris-Mar	15	Maxton	VIRCO Inc.
34-167-2-7244	Kris-Mar	1	Berea	VIRCO Inc.
34-167-2-7583	NOT DRILLED			





156 Woodrow Ave. Suite 2A St. Clairsville, OH 43950 (740) 695-9977 OH (304) 595-3290 WV green@greenandassoc.net



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, 004500N OF OIL AND GAS REGULATIONS.

P.S. 6608

SURFACE BOUNDARY SECTIONLINE STREAMS FOUND MONUMENT 0 PROPOSED WELL EXISTING WELL

SCALE: 300' 600' 0



12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 3G4.462.5634 1412 Kanawha Boulevard, East | Charleston, WV 25301 | 504.346.3952 254 East Beckley Sypass | Beckley, WV 25801 | 394.255.5295

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

V-M MANAGEMENT	SOLUTIONS LLC
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Scale: 1" = 300' Drawn By: K. G. Moyers Date: 11-19-2021 Checked By: J. M. Green Job Number: 9149 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 WASHINGTON COUNTY AUDITOR'S GIS DATA AND NOT VERIFIED BY SURVEY.
- 4. TIES TO SECTION LINES ARE BASED ON MONUMENTS FOUND DURING THE FIELD SURVEY. TIE DISTANCE TO SECTION LINE BETWEEN SECTIONS 4 AND 34, ALSO DESIGNATED AS THE BOUNDARY LINE BETWEEN WARREN AND MARIETTA TOWNSHIPS, WAS ESTABLISHED BY NINE (9) FOUND MONUMENTS LOCATED ALONG SAID SECTION LINE DURING A PREVIOUS SURVEY TO THE NORTHEAST OF THE SUBJECT PROPERTY.
- 5. THE PROPOSED WELL SHOWN HEREON IS TO BE AN INJECTION WELL.

REFERENCES:

- 1. WASHINGTON COUNTY AUDITOR'S TAX MAP
- 2. DEED BOOK 593 PAGE 717 OF RECORD FROM THE WASHINGTON 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: DEEPROCK DISPOSAL SOLUTIONS LLC, 637 STATE RT. 821, MARIETTA, OH 45750 LAND OWNER(S):

SURFACE: V-M MANAGEMENT SOLUTIONS LLC MINERAL: V-M MANAGEMENT SOLUTIONS LLC

WELL NAME: AMERICAN GROWERS

WELL NUMBER: 3

COUNTY: WASHINGTON

MUNICIPALITY: WARREN TOWNSHIP U.S.G.S. QUAD: MARIETTA 7.5' OHIO STATE PLANE GRID:

COORDINATES OH-S NAD 83

N: 509.354.18

E: 2,254,482,81

LAT(N): 39.394095

LONG(W): 81.488028

COORDINATES OH-S NAD 27

N: 509,316.39

E: 2,285,946.64 LAT(N): 39.394021

LONG(W): 81.488183

ELEVATION:

753.2' NAVD 88

WELL TYPE

NEW LOCATION: X OTHER:

SURVEY CERTIFICATION:

OIL OR GAS:

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.



GREEN AND ASSOCIATES

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P.S. 6608

DATE





12 Vanhorn Drive | 9.0. Box 150 | Gienville, WV 26351 | 304.462.5634 who Boulevard, East | Charleston, WV 25301 | 304.346.3952 254 East Beckley Bypass | Beckley, WV 25801 | 304,255,5295

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

V-M MANAGEMENT SOLUTIONS LLC

Date: 11-19-2021 Drawn By: K. G. Moyers Scale: N.T.S. Checked By: J. M. Green Job Number: 9149 Sheet No. 2 of 2