## APPLICATION CHECKLIST

Portage County, Windham Tup. Soinski #1, Permit# Date Initials SWIW # 37 Enter on Agenda 4/2/12 AA **Completeness Review** Date - Time Stamp Area of Review Site Evaluation **Permitting Section** Memo to Inspector **Public Notice** 08-01-12 08-01-12 Letter Date Run 15 Days **Review Public Notice** Affidavit of Notification **Objections Received** Yes \_\_\_\_\_ No \_\_\_ Public Hearing Date Chief's Order, if Required Schematic Plot on Map Review by Geologist Permit Conditions (Same date as permit) Enter on Computer (Same or later date than Chief's Order) **Enter on Master List EPA Form** Mail Permit Update Agenda File **RECORD OF CONVERSATION** 503

# DAILY ROUTE SLIP

Windham

Well

APPLICATION NO. <u>aAMY0000908</u>	TYPE: Salt Wate	r Injection Well
CONAME HARD ROCK DRILLING		
WELL NAME /NO. SOINSKI	1	
COUNTY 133 PORTAGE	<u>INITIALS</u>	<u>DATE</u>
DATE APPLICATION REC'D	dry	4/2/2012
PERMIT FEE AND CHECK NO.	\$1,000.00	1158
RUSH AMOUNT RUSH CHECK NO.	\$0.00	0
APPLICATION ENTERED	J.W.	4/2/2012
APPLICATIONS AND PLATS SENT FOR MINE APPROVAL		
COAL APPROVAL RECEIVED		
OIL/GAS AFFIDAVIT REC'D		
URBANIZED AREA NOTIFICATION SENT		
URBANIZED AREA NOTIFICATION SENT TO INSPECTOR/REC'D BACK		
URBAN MAP REVIEW		
SAMPLES: YES/SPECIAL AREAS		
GEOLOGIST APPROVAL		
DATA ENTRY /ISSUED		
PERMIT: TAKEN MAILED		
FAX TO:		
FINAL MAP CHECK		
COMMENTS:		

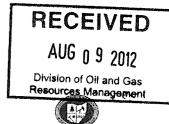
# **Proof Sheet**

APPL NUMBER	aAMY0000908	URBANIZED AREA?	
OWNER NUMBER	8837	NAME	
OWNER NAME	HARD ROCK DRILLING & P	ROD LLC	
EXISTING WELL	0		
API PERMIT NO		DISPOSAL PLAN 1 ND	
APPL TYPE	SWIW	DISPOSAL PLAN 2	
TYPE OF WELL	SWD	DISPOSAL PLAN 3	
VARIANCE REQUEST		DISPOSAL PLAN 4	
WELL NAME	SOINSKI # 1 SwiW#	77 DISPOSAL PLAN 5	
WELL NUMBER	1	MP Check # 0	
PREV/PROPOSED TD	4200	<u> </u>	
DRILL UNIT ACRES	484.73		
TYPE OF TOOL	RTAF	PROPOSED FORMATIONS	
WELL CLASS	SWIW	NEWBURG	
FIRE PHONE	( ) -911		
MEDICAL PHONE	( ) -911		
COUNTY CODE	133		
COUNTY NAME	PORTAGE		
COAL (Y=-1/N=0)	0		
CIVIL TOWNSHIP	WINDHAM	TARG CIVIL TWP	
SURF QUAD	GARRETTSVILLE	TARG QUAD	
Nad 27 SURF ORIG X	2,405,632	Nad 27 TARG ORIG X	
Nad 27 SURF ORIG Y	583,415	Nad 27 TARG ORIG Y	
GROUND ELEVATION	925	TARG ELEV 0	
SURF SEC		TARG SECTION	
SURF LOT	89	TARG LOT	
SURF QTR TWP		TARG QTR TWP	
SURF ALLOT		TARG ALLOT	
SURF TRACT		TARG TRACT	
SURF FRACTION		TARG FRACTION	

Monday, April 02, 2012

Page 3 of 10





# Ohio Department of Natural Resources Division of Mineral Resources Management 2045 Morse Rd. Bldg. H-3 – Columbus OH 43229-6693

## SWIW Permit Conditions

	Modification Date (if applicable)	08/02/12	spection Date	Ins	Permit Number	SWIW #37	Application Number
Soinski #1		lame/Well #	Lease N	ck Drilling cing, LLC	Hard Ro and Produ	Company	
Windham		Township	ayan dagan ayan ayan ar da	Portage		County	n die von Van German von der die eine von der
N/A		Urban Area		Lot 89		ection/Lot	S
ephen Ochs	Stepher				Inspected By		
	ndowner)	Soinski (Lai	and Dale	Company)	C.J. Cutter	panied By	Accom

Directions to Location	US 422; 4.5 miles south on SR 534; 3 miles west on SR 82; access on the north
	side of road

ITEM	LEASE ROAD, WELL SITE CONSTRUCTION	Comments:
1	Tree/Brush Removal/Disposition	N/A
2	Topsoil Removal/Stockpiles/Placement	N/A
3	Erosion/Sediment Control (Silt Fence, Berms)	Silt fence used where needed
4	Drainage Controls (Diversion Ditches, Culverts, Waterways, Crossings)	Existing drainage controls
5	Signage	As required by OAC 1501: 9-3-06
6	Apron/Culverts/Road Material	Existing access road
7	Pull Off Area	Well site
8	Parking	Well site
9	GPS – Access Road	41.25569 -81.02827
10	GPS – Well Stake	41.25873 -81.02443
11	GPS – Tank Battery	41.26170 -81.01926

ITEM	DRILLING CONSIDERATIONS				Comme	nts:
12	Noise Mitigation (Mufflers, Extra Frac Tanks, Tarps)	N/A				
13	Rig Type	Fluid and Air Rotary				
14	Is a Blow-out Preventor required?	Χ	Yes		No	700
	If No, explain:		The second secon			
15	Equipment Placement/ Orientation (Rig/ Frac Tanks/ etc.)	N/A				
16	Drilling Pits (Placement/Orientation)	N/A				
17	Fencing (Pits/Entire Location)	N/A		- pagenga pagga pagga sa kana kana kana kana kana kana kana	an ye a dayangan yan gala lidagan an da a ada lida lida da a	
18	Flood Plain	Appro	ox. 0.6 mil	es from E	agle Cre	ek
19	Mine Voids	None		and the second s		ментерия и при при при при при при при при при п
20	Verify Water Wells Within 300'	None		and the second second second second second second		
21	Verify Structures Within 500'	Gara	ge	a a a an ann an an an an an an an an an	er anne se er as este soue eller e esterotion e torre sou e e	
22	Verify Streams and Drainage	Drain	age east	toward Ea	igle Cree	ek .
						_
ITEM	RESTORATION					
23	Pit Closure – (Standard/ Solidification/ Off-Site Disposal – state time frame)					ed, the drilling equipment will d within two months.
24	Site Specific Time Frame For Restoration		storation v	vill be con	npleted w	vithin six months after drilling
25	Erosion/Sediment Control	Maint	ain until p	reliminary	restorat	ion is completed
26	Drainage Control	Maint	ain until fi	nal restor	ation is c	ompleted
ITEM	PRODUCTION		pa galancia, para assurant para a a tributan sul ar a antibuta		Comme	ents:
27	Is the Access Road Gate required?	Х	Yes		No	
	If No, explain:				•	and the second s
28	Landscaping/Screening (Wellhead, Tank Battery) (Waiver Attached if applicable)	N/A			enne y commune his rivers of the second section of the Phase	
29	Fencing (Wellhead, Tank Battery) (Waiver Attached if applicable)	N/A				
WAIVI	ERS				Comme	ents:
ls the	e Company required to submit a waiver?		Yes	X	No	And the control of th
	es, submit the following waiver requests:			1	1 7	
ii ye	os, submit the following waiver requests.			and the control of th	AND THE PROPERTY OF THE PROPER	
Isiti	ne Company required to submit revised dra	awings	?	Yes	X	No
THE	FOLLOWING ITEMS HAVE BEEN CHANGE	D FRO	M THE O	RIGINAL	APPLIC	ATION:



## Ohio Department of Natural Resources

IOHN R. KASICH, GOVERNOR

JAMES ZEHRINGER, DIRECTOR

Division of Oil and Gas Resources Management Richard J. Simmers, Chief 2045 Morse Road, Bldg. F-2 Columbus, OH 43229-6693 Phone: (614) 265-6633 Fax: (614) 265-7998

August 1, 2012

Mr. Charles J. Cutter
Hard Rock Drilling and Production, LLC
7646 Cedar Valley Road
West Salem, Ohio 44287

RE: Public Notification for SWIW application for Portage County, Nelson Twp. and Windham Twp., seven new wells, Hard Rock Drilling and Production, LLC, Soinski #1, #21, #3I, #4I, #5, #6, and #7 injection wells.

#### Dear Mr. Cutter:

As outlined in Rule 1501: 9-3-06 (H) (1) of the Ohio Administrative Code, please consider this letter as notification from the Division for you to proceed with the public notice. Enclosed, please find a copy of the notice you will need to have run in the newspaper of general circulation in the area of the proposed injection well. The public notice must be run for no less than five consecutive days. After running this notice in the newspaper, please send me the original proof-of-publication from the newspaper as soon as possible.

If you have any questions regarding this matter, please feel free to contact me at (614) 265-1032.

Sincerely,

Jom Jomastik, Geologist

**UIC Section** 

Division of Oil and Gas Resources Management

2045 Morse Road, F-2

Columbus, Ohio 43229-6693

Cc: File

2045 Morse Rd · Columbus, OH 43229-6693 · ohiodnr.com

## **PUBLIC NOTICE**

Hardrock Drilling and Production, LLC, 7646 Cedar Valley Road, West Salem, Ohio (419) 846-3850 is applying to permit seven wells for the injection of brine water produced in association with oil and natural gas. The location of the proposed injection wells Soinski SWD #1 and #4I wells at Lot 89; Soinski SWD #2I and #3I wells at Lot 90 in Windham Township; Soinski SWD #5, #6 and #7 at Lot 45 in Nelson Township; Portage County, Ohio. proposed wells will inject into Newburg dolomite at a depth of 4000 to 4200 feet. The average injection is estimated to be 800 barrels per day. The maximum injection pressure is estimated to be 920 psi. Further information can obtained by contacting Hardrock Drilling and Production, LLC or the Division of Oil and Gas Resources Management. address of the Division is: Department of Natural Resources, Division of Oil and Gas Resources Management, 2045 Morse Road, Building F-2, Columbus, 43229-6693, (614) 265-6633. For full consideration, all comments and objections must be received by the Division, in writing, within fifteen calendar days of the last date of this published legal notice.

#### **INTER-OFFICE MEMO**

TO: Steve Ochs, Mineral Resources Inspector FROM: Andrew Adgate, Geologist

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: Hard Rock Drilling and Producing, LLC.

WELL NAME & NUMBER: Soinski #1

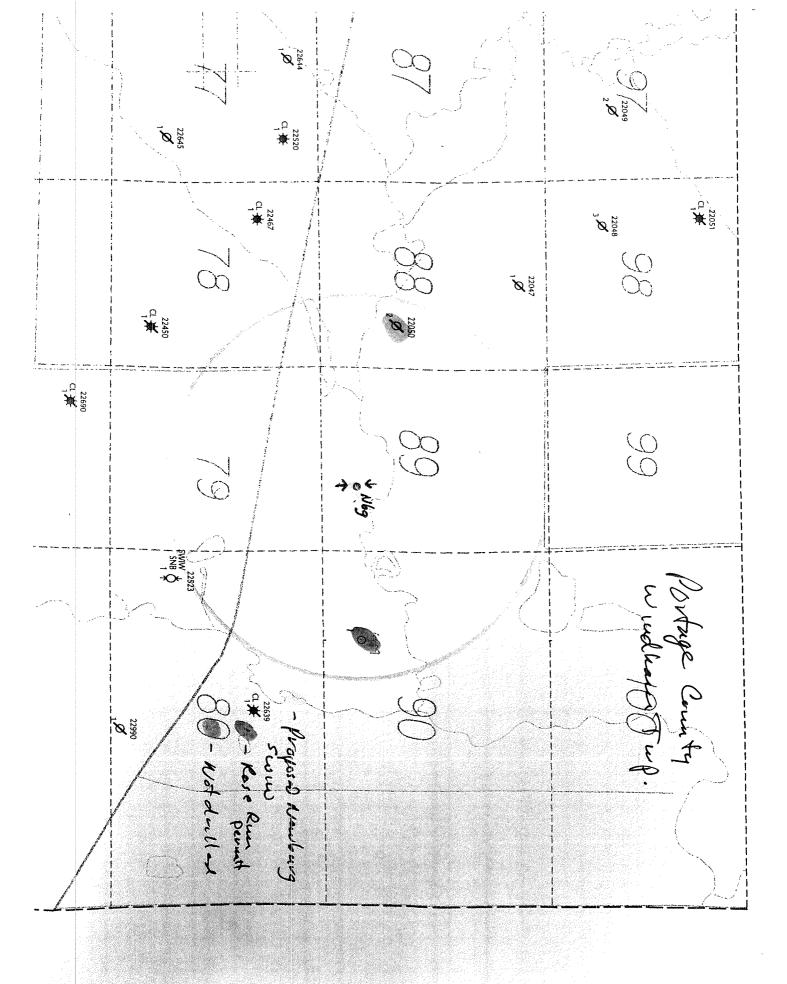
PERMIT NUMBER: Drill new well, SWIW #37

LOCATION: 460' SL & 937' EL of Lot 89, Windham Twp., Portage County

PROPOSED INJECTION ZONE: Newburg Dolomite

DATE RECEIVED: April 2, 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.



Nu Nu	rmit Casing/Cements mber Program	well Log and/or Method of Plug
Wang Wan	SWIW - 51/2" -	117/9-600' remembed to surface 4000' remembed back to 2500' 3900' parker set @ 3900'  2 Permit expired 2-17-81
Clinton 20	50 Not della	ed Permit expired 2-17-81
Rose Run 44	109 Not drille	d Permit expirer 4-10-2013

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

Portage County, Windham Twp. Soinskittlipermit # SWIW #37 CASING 650' to 750' Fresh Weter/Selt Weter Interfe Bores Sandstone, Mississippier 750' to 850' 280' 858' to 958' 316' 956' to 1050' 346' 1058' to 1156' h Water/Selt Water Interface or Pottsville Maxton 370' COAL BOUNDARY 1158' to 1258' 488, Fresh Water/Selt Water Interface Upper Allegheny and Coe Run 1256' to 1350' 636,

OVER 1350

#### Tomastik, Tom

From:

RC [rc@raypandertrucking.com]

Sent:

To:

Wednesday, March 07, 2012 11:11 AM

Tomastik, Tom

Subject:

FW: Soinski

Attachments: Soinski\_Injection\_1\_Feb13.pdf; ATT00001.htm; Soinski\_Injection\_2\_Feb13.pdf; ATT00002.htm;

Soinski\_Injection\_3\_Feb13.pdf; ATT00003.htm; Soinski\_Injection\_4\_Feb13.pdf; ATT00004.htm

Tom,

I hope all is well (or as good as it can be). I have been trying not to bother you. I know you are very busy because it seems in all of the meetings I have been having lately my colleagues tell me that they have spoken with you in the last few days. Nathan Harris(PGE), Bruce Levin(Frac Support Services), Steve Young(Eureka Resources), David Patrick(Wells Fargo), and Andy Spencer(Shortfuse Trucking) just to name a few. I'm afraid once the moratorium is lifted I will need you on speed dial. We are hoping to complete another 5 or 6 injection wells this year and I'm sure you have heard I am planning on working with CJ Cutter (Buckeye Disposal) on drilling another 10 - 15 injection wells (investor funded) that I will be responsible for operating.

Attached is the data on 4 injection wells we (Buckeye Disposal) have staked and are hoping to drill when the moratorium is lifted. These are just north west of the miller disposal well so I'm not anticipating any issues with surrounding wells. I was hoping you could provide us with an area of review so we can submit the applications.

Also, My Dad was looking at the newburg section on our Plum Creek Disposal well and mentioned that we could perforate a section of the newburg that wasn't orginally done to hopefully lower our injection pressures there. Can I go ahead and schedule a perf job there or do I need something from the state before we proceed. I don't want to raise the top perf. I am hoping to find some space below what was originally done.

Thanks, RC

This message may contain information that is considered to be sensitive or confidential and may not be forwarded or disclosed to any other party without the permission of the sender.

From: CJ Cutter [mailto:cjcutter@cutteroil.com] **Sent:** Tuesday, March 06, 2012 11:53 AM To: RC <rc@raypandertrucking. com>

Subject: Fwd: Soinski

CJ Cutter

Begin forwarded message:

From: "Ed Gasbarre" <eddaeg@acendbarqmail.com>

To: "CJ Cutter" < <u>cjentera cutteroil.com</u>>

Subject: Soinski

3/7/2012

#### Tomastik, Tom

From:

Eggert, Michael [michael.eggert@epa.state.oh.us]

Sent:

Tuesday, June 19, 2012 3:08 PM

To:

Tomastik, Tom

Cc:

Taliaferro, Lindsay; Lowe, Chuck; Smith, Craig

Subject:

Review of 5 Class II Injection Well Permit Applications

Attachments: ODNR\_ClassII\_PermitReview\_Jun19\_2012.doc; Soinski\_Wells\_1-4 (2).pdf; Evrol-Kelly\_Disposal\_Well.pdf

Tom,

Please see attached documents with Ohio EPA's review of the proposed Class II Injection Well permit applications.

Contact Chuck Lowe or Craig Smith if you have any questions.

## Michael Eggert

Assistant Chief, DDAGW
Ohio Environmental Protection Agency
50 West Town Street, *Suite* 700
Columbus, Ohio 43215

Phone: 614.644.2767

E-mail: michael.eggert@epa.state.oh.us
Web: http://www.epa.state.oh.us/home.aspx

This message was secured by Zix (R)

6/21/2012

To: Tom Tomastik, ODNR-DOGRM

From: Michael Eggert, Assistant Chief, Ohio EPA-DDAGW

**Date:** June 19, 2012

Subject: Class II Injection Well Permit Reviews

Ohio EPA Division of Drinking and Ground Waters has completed its review of five (5) Class II underground injection well permits.

Our review of the Class II permits focused on well construction relative to the protection of underground sources of drinking water (USDW) and the location of the surface facilities relative to public water system source water protection areas and other sensitive hydrogeologic settings.

Our review indicated no major problems that should cause a delay in approving the permits. However, the following technical issues should be addressed by the applicants prior to well construction.

The Evrol #1 Evrol LLC (Portage Co., Atwater Twp., Lot 98) has the following concerns:

- The surface casing and cement appear adequate. However, the type of cement (Class A is recommended) to be used and the placement of centralizers should be specified.
- The proposed injection zone is an open hole completion in the Newburg Dolomite. Atwater Twp. has been heavily drilled, with eight (8) Clinton Sandstone wells within the area of review (1/2 mile). Review of the cementing practices for the completion casing shows that the industry standard was to place cement over the producing (Clinton) interval with the cement top below the Newburg. Surface casing was set below the lowermost USDW and cemented to surface. However, the interval between the top of the Clinton cement and the base of the USDW is open. The potential for fluid movement out of the Newburg exists through these un-cemented well bores.
- The requested maximum injection pressure (1103 psi) exceeds the calculated value (958 psi) using a specific gravity of 1.2.

The Hard Rock Drilling & Producing Soinski Wells 1-I, 2-I, 3-I and 4-I (Portage Co., Windham Twp. Lots 89 & 90) have the following questions:

- The proposed depth of the surface casing listed for each well in the proposed casing program (No. 21) does not agree with the depths shown in the well construction and operation (No. 32) and the well schematic (No. 37). The latter are considered to be the correct depths. The type of cement to be used (Class A is recommended) and the placement of centralizers should be specified.
- A description of the surface facility for each well was given, but the locations were not shown. It is assumed that a single unloading facility was envisioned by Hard Rock Drilling, but not specified. If this is the case, then the locations of the flow lines and any stream crossings should be shown.
- The requested maximum injection pressure (1000 psi) exceeds the calculated value (968 psi).

Tomastik June 19, 2012 Page 2 of 2

Attachment A is a summary of source water protection comments and two figures of the injection wells location in relation to public water systems. None of the proposed Class II injection wells are within one half mile of a public water system well or within a source water protection area. Note our review did not evaluate the location of private water system wells.

If you have any questions, please contact either Chuck Lowe or Craig Smith.

#### Attachments

cc: (

Chuck Lowe, DDAGW Craig Smith, DDAGW

#### Attachment A

The Division of Drinking and Ground Waters has reviewed the UIC Class II injection well permits submitted for the Kelly Disposal Well (Evrol, LLC) and the Soinski #1I, #2I, #3I and #4I Wells (Hard Rock Drilling & Production, LLC) with regard to the following features within ½ mile:

Public water system wells and intakes;

Drinking water source protection areas for surface and ground water sources;

Federally-designated Sole Source Aquifers;

Unconsolidated aquifers capable of producing 100 or more gallons per minute;

Sand and gravel aquifers; and

Other glaciated areas covered by less than 25 feet of glacial material.

The following provide the results of this review:

#### Evrol (Kelly Disposal Well) (Evrol, LLC)

- No public water system wells or intakes are located within ½ mile of the proposed well location.
- No drinking water source protection area for a public water system using a ground water source extends to within ½ miles of the proposed well location.
- The proposed well location is within the corridor management zone determined for the City of Alliance's Dale Walborn Reservoir and Deer Creek Lake intakes. The corridor management zone for the intake extends 1,000 feet inland from the Mahoning River and 500 feet from each bank of tributary streams. The corridor management zone extends ten miles upstream of the intake. The project area is approximately 5.6 river miles upstream of the Dale Walborn Reservoir intake and 10 river miles upstream of the Deer Creek Lake intake. Based on the distance between the proposed well and the City of Alliance's intakes there is a very low probability that proper operation of a Class II injection well will impact Alliance's water quality.
- The proposed well location does not lie over a Federally-designated sole source aquifer.
- The well location is over the sand and gravel deposits of the Mahoning Buried Valley Aguifer.
- The well location does not lie over an unconsolidated aquifer capable of producing 100 or more gallons per minute or other glaciated areas covered by less than 25 feet of glacial material.

# Soinski #1I, Soinski #2I, Soinski #3I & Soinski #4I (Hard Rock Drilling & Production, LLC):

- No public water system wells or intakes are located within ½ mile of the proposed well locations.
- No drinking water source protection area extends to within ½ miles of the proposed well locations.

- The proposed well locations do not lie over a Federally-designated sole source aquifer.
- The proposed well locations are over the sand and gravel deposits of the Mahoning Buried Valley Aquifer.
- The proposed well locations do not lie over an unconsolidated aquifer capable of producing 100 or more gallons per minute.
- Glacial deposits less than 25 feet thick, Alliance Thin Upland, are located within ½ mile of the proposed well locations.

The attached maps show the spatial relationships of these features to the Kelly Disposal Well and the Soinski #11, #21, #31 and #41 Wells and are provided for your files.

#### RESTORATION PLAN (Form 4)

Ohio Department of Natural Resources

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

1. DATE OF APPLICATION: 21-Mar-12	
2. OWNER NAME, ADDRESS, & TELEPHONE NO.:	3. API#:
Hard Rock Drilling & Producing LLC, 7646 Cedar Valley Road, West	4. WELL#: 1
Salem, Ohio 44287 (419) 846-3850	5. LEASE NAME: Soinski
(***)**********************************	6. PROPERTY OWNER: Dale Soinski
	7. COUNTY: Portage
	8. CIVIL TOWNSHIP; Windham
	9. SECTION: 10. LOT: 89
11. CURRENT LAND USE:	17. TYPE OF WELL:
☐ Cropland ☐ Commercial	☐ Oil ☐ Gas ☑ Other
☐ Pasture ☐ Idle Land	Lead Lead Lead
☐ Wetlands ✓ Recreational	18. STEEPEST SLOPE GRADIENT CROSSING SITE:
Residential Industrial	□ 0 to 2% □ 2.1 to 8%
Unreclaimed strip mine	☐ 8.1 to 10%
☐ Woodland: ☐ <u>Broadlea</u> f ☐ <u>Needlelike</u>	☐ 10.1 to 24% ☐ greater than 24%
12. SLOPE GRADIENT & LENGTH DETERMINED FROM:	19. LENGTH OF STEEPEST SLOPE CROSSING SITE:
✓ Ground Measurement	
U.S. Geological Survey Topographical Maps	☐ 1 to 100 ft. ☐ 101 to 200 ft.
Other: (explain)	☑ 201 to 400 ft. ☐ greater than 400 ft.
13. TYPE OF FALL VEGETAL COVER:	20. RESTORATION OF DRILLING PITS: **
☑ Little or no vegetal cover	Haul drilling fluids and fill pits
Short grasses	Use steel circulating tanks
☐ Tall weeds or short brush (1 to 2 ft.)	Proposed alternative
Brush or bushes (2 to 6 ft.)	
Agricultural crops	21. BACKFILLING AND GRADING AT SITE:
Trees with sparse low brush	Construct diversions channeled to naturally established
Trees with dense low brush	drainage systems
14. SOIL & RESOILING MATERIAL AT WELLSITE:	- I
Stockpile and protect topsoil to be used when preparing	☐ Construct terraces across slopes ☐ Grade to approximate original contour
seedbed	Grade to approximate original contour  Grade to minimize erosion & control offsite runoff
Use of soil additives (e.g., lime, fertilizer)	Proposed alternative
No resoiling planned	22. VEGETATIVE COVER TO BE ESTABLISHED AT SITE:
Proposed alternative	Seeding plan
15. DISPOSAL PLAN FOR TREES AND TREE STUMPS:	Agricultural crops
	Proposed alternative
✓ No trees disturbed ☐ Haul to landfill ☐ 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	24. PROPOSED OR CURRENT LENGTH OF ACCESS ROAD:
Use for wildlife habitat with landowner approval	☑ 100 ft. or less ☐ 101 to 500 ft.
Proposed alternative	☐ 501 to 1500 ft. ☐ greater than 1500 ft.
16. SURFACE AND SUBSURFACE DRAINAGE FACILITIES:	25. CURRENT LAND USE OF PATH OF ACCESS ROAD:
No existing drainage facilities for removal of surface and/	☐ Cropland ☐ Pasture ☐ Commercial
or subsurface water	☐ Idle land ☐ Wetlands ☑ Recreational
Tile drainage system underlying land to be disturbed	☐ Industrial ☐ Residential
Drain pipe(s) underlying land to be disturbed	Unreclaimed strip mine
Surface drainage facilities on land to be disturbed	☐ Woodland: ☐ <u>Broadlea</u> f ☐ <u>Needlelike</u>
**PITS MUST BE FILLED WITHIN TWO MONTHS AFTER COMMENCEMENT OF TH	E WELL AND WITHIN FOURTEEN DAYS AFTER COMMENCEMENT OF THE WELL IN

\*PITS MUST BE FILLED WITHIN <u>TWO</u> MONTHS AFTER COMMENCEMENT OF THE WELL AND WITHIN <u>FOURTEEN</u> 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.

DNR-744-7002 (Revised 10/2011)

26.	SURFACING MATERIAL FOR ACCESS ROAD:  Gravel Brick and/or tile waste  Slag Crushed stone  No surfacing material to be used  Proposed alternative	29. STEEPEST SLOPE GRADIENT ON ACCESS ROAD:  ① 0 to 5%  ② 6 to 10%  ③ 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:  201 to 400 ft. 101 to 200 ft. 102 greater than 400 ft.
28.	GRADING AND EROSION CONTROL PRACTICE ON ROAD:  Diversions Prains Riprap Open top culverts Outsloping of road Pipe culverts Proposed alternative	31. HAS LANDOWNER RECEIVED A COPY OF THIS RESTORATION PLAN?  Yes  No
The the	undersigned hereby agrees to implement all restoration operations ide Ohio Revised Code, and to all Orders and rules issued by the Chief, Di	entified on this form, and conform to all provisions of Section 1509.072 of vision of Oil and Gas Resources Management.
Sigr	nature of Owner/Authorized Agent	
Nan	ne (Typed or Printed) Charles J Ciffer	Date 3-28-12
	RESTORATION PLAN MUST BE SUBMI	TTED TO THE DIVISION IN DUPLICATE.

RECEIVED

APR # 2 2012

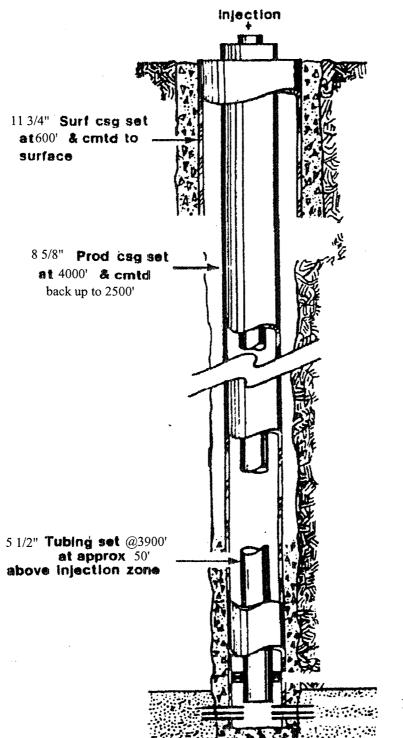
Revised 10/2011 DNR-744-7002

Page 2 of 2

128206h. These Sell Well & 85' x 55' XO, ON 8 = 69, 19 bbb. pound & 40" in height RECEIVED AUG 0 1 3012 W SS AMISES MILLION MAN MANOO = 2767666. Capacky Dr が多い 7 ŞŞ

# Subsurface Construction For Injection Well

Maximum Injection Pressure: 920 psi



Newburg dolomite 4000' - 4200'

Total Depth: 4200'

### **APPLICATION FOR A PERMIT (Form 1)**

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

SEE INSTRUCTIONS ON PAGE 2 (BACK)	
1. I, We (applicant) Hard Rock Drilling & Produc	
(address) 7646 Cedar Valley Road, West Sale	em, Ohio 44287 Phone #: 419-846-3850
hereby apply this date <u>21-Mar</u> , 20	12 for a permit to:
Reissue (check appropriate blank)	
✓ Drill New Well ☐ Plug Back	
Drill Directionally Plug and	
	Vell Program
3. TYPE OF WELL: Oil & Gas Annular D	·
☐ Stratigraphic Test ☐ Gas Stora	age Under (explain):
☐ Solution Mining* ☐ Enhanced	d Recovery* (* if checked, select appropriate box below)
☐ Input/Injection ☐ Water Su	
4. MAIL PERMIT TO:	20. TYPE OF TOOLS:
Hard Rock Drilling & Producing LLC, 7646 Cedar Valley Road, West	20. TYPE OF TOOLS. ☐ Air Rotary
Salem, Ohio 44287	☐ Cable / Air Rotary ☐ Air / Fluid Rotary
	☐Cable / Fluid Rotary ☐ Fluid Rotary
	Cable / Air / Fluid Rotary
5. COUNTY: Portage	21. PROPOSED CASING PROGRAM:
6. CIVIL TOWNSHIP: Windham	``````````````````````````````````````
7. SECTION: 8. LOT: 89	600 AA
9. FRACTION: 10. QTR TWP:	16" Conductor cement to surface, 11 3/4 surface to 350' cement to
11. TRACT / ALLOT:	surface, 8 5/8 surface to 4200', 5 1/2 tubing set on packer within
12. WELL #: 1	100' of top of perf approximately 4000'
13. LEASE NAME: Soinski 14. PROPOSED TOTAL DEPTH: 4200	Tr 2. KB
15. PROPOSED GEOLOGICAL FORMATION:	22. FIRE AND MEDICAL DEPARTMENT TELEPHONE
Newburg	NUMBERS: (closest to well site)
16. DRILLING UNIT IN ACRES (must be same as acres	Fire: 911
indicated on plat): 484.73	Medical: 911
17. IF PERMITTED PREVIOUSLY:	23. MEANS OF INGRESS & EGRESS:
API#:	Township Road:
OWNER	•
OWNER:	County Road:
WELL #:	Municipal Road:
WELL #: LEASE NAME:	
WELL #: LEASE NAME: TOTAL DEPTH:	Municipal Road: State Highway: St. Rt. 82
WELL #:  LEASE NAME:  TOTAL DEPTH:  GEOLOGICAL FORMATION:	Municipal Road: State Highway: St. Rt. 82  24. IS THE WELL LOCATION OR PRODUCTION FACILITIES
WELL #:  LEASE NAME:  TOTAL DEPTH:  GEOLOGICAL FORMATION:  18. IF SURFACE RIGHTS ARE OWNED BY THE OHIO	Municipal Road: State Highway: St. Rt. 82  24. IS THE WELL LOCATION OR PRODUCTION FACILITIES WITHIN AN URBANIZED AREA AS DEFINED BY 1509.01(Y)?
WELL #:  LEASE NAME:  TOTAL DEPTH:  GEOLOGICAL FORMATION:	Municipal Road: State Highway: St. Rt. 82  24. IS THE WELL LOCATION OR PRODUCTION FACILITIES
WELL #:  LEASE NAME:  TOTAL DEPTH:  GEOLOGICAL FORMATION:  18. IF SURFACE RIGHTS ARE OWNED BY THE OHIO DEPARTMENT OF NATURAL RESOURCES	Municipal Road: State Highway: St. Rt. 82  24. IS THE WELL LOCATION OR PRODUCTION FACILITIES WITHIN AN URBANIZED AREA AS DEFINED BY 1509.01(Y)?
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WELL #: LEASE NAME: TOTAL DEPTH: GEOLOGICAL FORMATION:  18. IF SURFACE RIGHTS ARE OWNED BY THE OHIO DEPARTMENT OF NATURAL RESOURCES Division Name: Division Phone:  19. LANDOWNER ROYALTY INTEREST: Is There An Attached List? Name: Dale Soinski Address: 10218 Silica Sand Road, Garrettsville, Ohio 44231 Name: Address: Name: Address: Name: Address: I, the undersigned, being first duly sworn, depose and state under penalties of law, that I am supervision and direction, and that the facts stated herein are true, correct, and complete, to I, the undersigned, further depose and state that I am the person who has the right to drill on or gas that I produce therefrom either for myself or others as described in this application. Ar not liable for any final nonappealable order of a court for damage to streets, roads, highways Code (ORC). I, the undersigned, further depose and state that all notices required by 1509. to plug and abandon a well, I hereby certify that the written notices, as required in Section 16. That I hereby agree to conform with all provisions of Chapter 1509., ORC, and Chapter 1501. Resources Management.  Signature of Owner/Authorized Agent Name (Type or Print)  If signed by Authorized Agent, a certificate of appointment of agent must be on file.  Sworn to and subscibed before me, this, the Abandor of Chapter 1501. CUTTER Notary Public, State of Chio	Municipal Road: State Highway:  St. Rt. 82  24. IS THE WELL LOCATION OR PRODUCTION FACILITIES WITHIN AN URBANIZED AREA AS DEFINED BY 1509.01(Y)?  Yes  No  No  No  No  No  No  No  No  No  N
WELL #:  LEASE NAME:  TOTAL DEPTH:  GEOLOGICAL FORMATION:  18. IF SURFACE RIGHTS ARE OWNED BY THE OHIO  DEPARTMENT OF NATURAL RESOURCES  Division Name:  Division Phone:  19. LANDOWNER ROYALTY INTEREST:  Is There An Attached List?  Name: Dale Soinski  Address: 10218 Silica Sand Road, Garrettsville, Ohio 44231  Name:  Address:  Name:  Address:  I, the undersigned, being first duly sworn, depose and state under penalties of law, that I am supervision and direction, and that the facts stated herein are true, correct, and complete, to I, the undersigned, further depose and state that I am the person who has the right to drill on or gas that I produce therefrom either for myself or others as described in this application. Ar not liable for any final nonappealable order of a court for damage to streets, roads, highways Code (ORC). I, the undersigned, further depose and state that all notices required by 1509. Code (ORC). I, the undersigned, further depose and state that all notices required by 1509. Code (ORC). I, the undersigned, further depose and state that all notices required in Section 15 That I hereby agree to conform with all provisions of Chapter 1509., ORC, and Chapter 1501 Resources Management.  Signature of Owner/Authorized Agent  Name (Type or Print)  If signed by Authorized Agent, a certificate of appointment of agent must be on file.  Sworn to and subscibed before me, this, the Action of Option My Commission Expires	Municipal Road: State Highway: St. Rt. 82  24. IS THE WELL LOCATION OR PRODUCTION FACILITIES WITHIN AN URBANIZED AREA AS DEFINED BY 1509.01(Y)? Yes No  No  APR 1 2 2012  authorized to make this application, that this application was prepared by me or under my the best of my knowledge. It the tract or drilling unit and to drill into and produce from a pool and to appropriate the oil and furthermore, I the undersigned, being duly sworn, depose and state at this time that I am 6, bridges, culverts, or drainage ways pursuant to Section 5577.12 of the Ohio Revised 16 (A) (9) ORC for this application have been duly provided by me. If applying for a permit 509.13, ORC, have been given.  I., OAC, and all orders and conditions issued by the Chief, Division of Oil and Gas  Title  Title
WELL #: LEASE NAME: TOTAL DEPTH: GEOLOGICAL FORMATION:  18. IF SURFACE RIGHTS ARE OWNED BY THE OHIO DEPARTMENT OF NATURAL RESOURCES Division Name: Division Phone:  19. LANDOWNER ROYALTY INTEREST: Is There An Attached List? Name: Dale Soinski Address: 10218 Silica Sand Road, Garrettsville, Ohio 44231 Name: Address: Name: Address: Name: Address: I, the undersigned, being first duly sworn, depose and state under penalties of law, that I am supervision and direction, and that the facts stated herein are true, correct, and complete, to I, the undersigned, further depose and state that I am the person who has the right to drill on or gas that I produce therefrom either for myself or others as described in this application. Ar not liable for any final nonappealable order of a court for damage to streets, roads, highways Code (ORC). I, the undersigned, further depose and state that all notices required by 1509. to plug and abandon a well, I hereby certify that the written notices, as required in Section 16. That I hereby agree to conform with all provisions of Chapter 1509., ORC, and Chapter 1501. Resources Management.  Signature of Owner/Authorized Agent Name (Type or Print)  If signed by Authorized Agent, a certificate of appointment of agent must be on file.  Sworn to and subscibed before me, this, the Abandor of Chapter 1501. CUTTER Notary Public, State of Chio	Municipal Road: State Highway: St. Rt. 82  24. IS THE WELL LOCATION OR PRODUCTION FACILITIES WITHIN AN URBANIZED AREA AS DEFINED BY 1509.01(Y)? Yes No  No  APR 1 2 2012  authorized to make this application, that this application was prepared by me or under my the best of my knowledge. It the tract or drilling unit and to drill into and produce from a pool and to appropriate the oil and furthermore, I the undersigned, being duly sworn, depose and state at this time that I am 6, bridges, culverts, or drainage ways pursuant to Section 5577.12 of the Ohio Revised 16 (A) (9) ORC for this application have been duly provided by me. If applying for a permit 509.13, ORC, have been given.  I., OAC, and all orders and conditions issued by the Chief, Division of Oil and Gas  Title  Title

Before this application can be processed, an Authority and Organization Form (Form 9), indicating the exact owner name on this form, and proof of compliance with the surety and insurance requirements of Chapter 1509.07, Ohio Revised Code, must be on file with the Division of Oil and Gas Resources Management. The signature of owner/authorized agent must correspond with the signature(s) listed on the Form 9 on file with the Division.

All information requested on this form must be provided unless exempted by the instructions below. Incomplete applications may be returned to the applicant. An application for a permit requires the following:

# 1. Drill, Reopen, Deepen and Plug Back an *Oil and Gas Well* (non-urban valid for 24 months; urban valid for 12 months)

- a. Original and two (2) copies of Application for a Permit (Form 1);
- b. Original and four (4) copies of an Ohio registered surveyor's plat;
- c. Original and one (1) copy of the Restoration Plan (Form 4);
- d. Reopen, deepen, plug back and convert will require three (3) copies of the Well Completion Record (Form 8);
- e. \$500.00 check or money order payable to the Division of Oil and Gas Resources Management and;
- f. If requesting an expedited review, an additional \$250 fee is required; and an Oil & Gas Affidavit (if the proposed well location is in a coal-bearing township).
- g. For an **urbanized area** new well drilling permit, the fee is as follows: \$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; and \$1,000 for all municipal corporations regardless of population.
- h. For mandatory pooling, an additional \$5,000.

#### 2. Reissue or Revised Location

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

#### 3. Plug and Abandon (valid for 24 months)

- a. Original copy of Application for a Permit (Form 1);
- b. Two (2) copies of the Ohio registered surveyor's plat originally filed, or modified, if available;
- c. Three (3) copies of the Well Completion Record (Form 8) if available; if there is no Well Completion Record on file with the Division, provide any drilling information that is available;
- d. \$250 check or money order payable to the Division of Oil and Gas Resources Management;
- e. If requesting an expedited review, an additional \$500 fee is required.

#### 4. Drill, Reissue, Reopen, Deepen, Plug Back or Convert a Well to Saltwater Injection

- a. Same as above: 1(a), (b), (c), (d); and
- b. \$1,000 check or money order payable to the Division of Oil and Gas Resources Management.

#### 5. Temporary Inactive (valid for 12 months)

- a. Original and one (1) copy of Application for a Permit (Form1);
- b. A map, on a scale not smaller than four hundred feet to the inch, that shows the location of the well and the tank battery, that includes the latitude and longitude of the well;
- c. A written statement that the well is of future utility, and that there is a viable plan to use the well within a reasonable period of time and the well poses no threat to the health or safety of persons, property or the environment;
- d. For first application, \$100 check or money order payable to the Division of Oil and Gas Resources Management;
- e. For first renewal, \$250 check or money order payable to the Division of Oil and Gas Resources Management;
- f. For subsequent renewals, \$500 check or money order payable to the Division of Oil and Gas Resources Management; additional bonding may be required.
- Item 1. Permit holder's name as it appears on Form 9. Indicate the type of or combination of activities to be permitted.
- Item 2. Indicate owner number, if the owner number is not known, please contact the Division.
- Item 3. Indicate the type of well for which the application is being submitted.
- Item 4. Provide name, address, city, state and zip code where the permit is to be mailed.
- Items 5-11. Indicate drilling location.
- Items 12-16. Provide requested information.
- Item 17. Complete when application is for a permit to reopen, deepen, reissue, plug back, convert, or plug and abandon. If the well was never permitted, list "NONE" under permit #; all other wells require the permit number.
- Item 18. Complete if surface rights are owned by the Ohio Department of Natural Resources.
- Item 19. List names and addresses of all landowner royalty interest holders. Names must coincide with those shown on the designated unit or subject tract on the surveyor's plat or an explantion must be included. Additional sheets may be attached (overriding royalty and working interests are not required).
- Item 20. Indicate type of tools that may be used.
- Item 21. Indicate size and amount of casing to be used, and/or formations to be cased off.
- Item 22. Indicate fire and medical department emergency telephone numbers closest to the well site.
- Item 23. List all county, township, and/or municipal roads, streets and highways by name or number that applicant anticipates to use as means of ingress and egress to and from the well site.
- Item 24. An "urbanized area" is a municipal corporation or a township that has an unincorporated population of more than than five thousand, as defined under Section 1509.01 (Y) of the Ohio Revised Code. Notice must be provided by regular mail to the owner of each parcel of real property that is located within five hundred feet of the surface location of the well, and to either the executive authority of the municipal corporation or the board of township trustees (see 1509.06 (A) (9)).

# SUPPLEMENT TO APPLICATION PERMIT FOR AN ENHANCED RECOVERY PROJECT (Form 203)

Ohio Department of Natural Resources, Division of Oil and Gas Resources Management 2045 Morse Road, Bldg H3
Columbus, OH 43229-6693

AREA OF REVIEW. An application for an Enhanced Recovery Project (ERP) will be evaluated on the basis of an "area of review" surrounding the proposed input wells for the project. The area of review for projects in which injection of greater than two hundred barrels per day per well is proposed shall be the area circumscribed by a circle with one center point at the location of each input well and a radius of one-half mile. The area of review for projects in which a maximum injection of two hundred barrels per day per well or less is proposed shall be the area circumscribed by a circle with the center point at the location of each input well and a radius of one-quarter mile. Projects in which gas is the proposed injection fluid will have an area of review consisting of an area circumscribed by a circle with the center point at the location of each input well and a radius of one-quarter mile.

Inje	ction Interval: From:	-4050 - 4000	feet to	4200
	ologic description of injection zone		Dolimi	
	· · · · ·			
<u>WE</u>	LL CONSTRUCTION AND OF	PERATION		
A.	Description of the proposed case	ing and cement program	for new wells, or of the	casing, cementing or sealing with
	prepared clay for existing wells			
	11 3/4 casing surface	to 600', 8 5/8 casing sur	rface to 4000' open hole	with 1500' of cement fill up.
	5 1/2 tubing set o	n a packer at approx. 39	00'. Well will be bond lo	ogged to show cement top.
D	Th. 1 1 C			
В.	Proposed method for testing the			
				how integerty and cement top.
	P	ressure up on longstring	after cementing before of	open hole.
C.	Description of the proposed met	had for completion and	operation of the injection	a well:
·.	bescription of the proposed met		n a packer at approx. 390	
		3 1/2 tuonig set o.	ir a packer at approx. 390	
D.	Description of the proposed unle	oading, surface storage,	and spill containment fac	cilities:
				ge. The water will be stored in 210
	or 400 BBL tanks which	will be placed on a conc	rete pad with concrete w	alls. This dike will be of sufficient
	R-0		water in case of tank failt	
	Trucks will unload thro	ough a strainer/ filter into	the tanke. Water will b	e filtered to the injection pump.
				D7.
				RECEIVE
				RECEIVEL
				APP A 2 2017
				APE A 2 201Z
				APE A 2 201Z
				APE A 2 2017
PRO	OPOSED INJECTION VOLUM	TES_		APE A 2 2017
<u>PR(</u> A.	OPOSED INJECTION VOLUM Indicate the estimated amount o	f saltwater to be injected	I into the proposed inject	n 2 2017.
	Indicate the estimated amount o	f saltwater to be injected	I into the proposed inject	ion well per day:
	Indicate the estimated amount o		f into the proposed inject	ion well per day:
A.	Indicate the estimated amount o AVERAGE:	f saltwater to be injected 800	MAXIMUM:	ion well per day: 1600
	Indicate the estimated amount o AVERAGE:  Indicate the method to be used t	f saltwater to be injected 800  o measure the actual am	MAXIMUM: ount of saltwater injected	ion well per day: 1600 I into the well:
A.	Indicate the estimated amount o AVERAGE:  Indicate the method to be used t	f saltwater to be injected 800  o measure the actual am	MAXIMUM: ount of saltwater injected	ion well per day: 1600 I into the well:
А.	Indicate the estimated amount o AVERAGE:  Indicate the method to be used t Paperwork turned in by drive	f saltwater to be injected 800 o measure the actual am ers. Electronics on unloa	MAXIMUM: ount of saltwater injected	ion well per day: 1600 I into the well:
A. B.	Indicate the estimated amount o AVERAGE:  Indicate the method to be used t Paperwork turned in by drive OPOSED INJECTION PRESSU	f saltwater to be injected 800  o measure the actual amers. Electronics on unload	MAXIMUM: ount of saltwater injected ad station to monitor true	ion well per day:  1600  1 into the well: ks & amount of water with flowmet
A. B.	Indicate the estimated amount o AVERAGE:  Indicate the method to be used t Paperwork turned in by drive  OPOSED INJECTION PRESSU  Indicate the estimated pressure to	f saltwater to be injected 800  o measure the actual amers. Electronics on unload  IRES to be used for injection of	MAXIMUM: ount of saltwater injected ad station to monitor true	ion well per day:  1600  I into the well: ks & amount of water with flowmet
A. B.	Indicate the estimated amount o AVERAGE:  Indicate the method to be used t Paperwork turned in by drive OPOSED INJECTION PRESSU	f saltwater to be injected 800  o measure the actual amers. Electronics on unload  IRES to be used for injection of	MAXIMUM: ount of saltwater injected ad station to monitor true	ion well per day:  1600  I into the well: ks & amount of water with flowmet
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A.  B.  PRO  A.	Indicate the estimated amount of AVERAGE:  Indicate the method to be used to Paperwork turned in by drive OPOSED INJECTION PRESSUE Indicate the estimated pressure to AVERAGE:  Indicate the method to be used to average to the statement of the st	f saltwater to be injected 800  o measure the actual amers. Electronics on unload  (RES) to be used for injection of 800  o measure the actual dai	MAXIMUM:  ount of saltwater injected and station to monitor true of saltwater into the proportion MAXIMUM:  ally injection pressure:	ion well per day:  1600  I into the well:  ks & amount of water with flowmeter  posed injection well:  1000  All
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A.  B.  PRO A.  B.	Indicate the estimated amount of AVERAGE:  Indicate the method to be used to Paperwork turned in by drive OPOSED INJECTION PRESSUE Indicate the estimated pressure to AVERAGE:  Indicate the method to be used to Guages on well opposed CORRECTIVE ACTIONAL PRESSUE Indicate the method to be used to Guages on well opposed CORRECTIVE ACTIONAL PROPOSED CORRECTIVE ACTION	f saltwater to be injected 800  o measure the actual amers. Electronics on unload IRES to be used for injection of 800  o measure the actual dailhead recorded be well to the one of the on	MAXIMUM:  ount of saltwater injected and station to monitor true of saltwater into the proportion MAXIMUM:  ally injection pressure:  ender and electronics on	ion well per day:  1600  I into the well:  ks & amount of water with flowmeter  osed injection well:  1000  the well with tranducers  mation or zone within the area of

31.

**PROPOSED INJECTION ZONE** 

- 36. MAP. Each application for a permit shall be accompanied by a map or maps showing and containing the following information:
  - A. The subject area trace or tracts of land and their owners upon which the proposed enhanced recovery operations are to be conducted;
  - B. The location and designation of all input, withdrawal, or observation wells on the tract or tracts to be utilized in the enhanced recovery project.
  - 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 area.
  - 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.

	SCHEMATIC	TOF SUBSURFACE  TOP SUBSURFACE	Arvin Lukschason as  PACKER	2800 (a) 2800 (b) 2500 (c) 250	
1/2 SURFACE CASING @ GUC.	G & PRODUCTION CASING @ HKU!		51/2 TUBING @ 34/20.		ть <u>4/20</u> с"

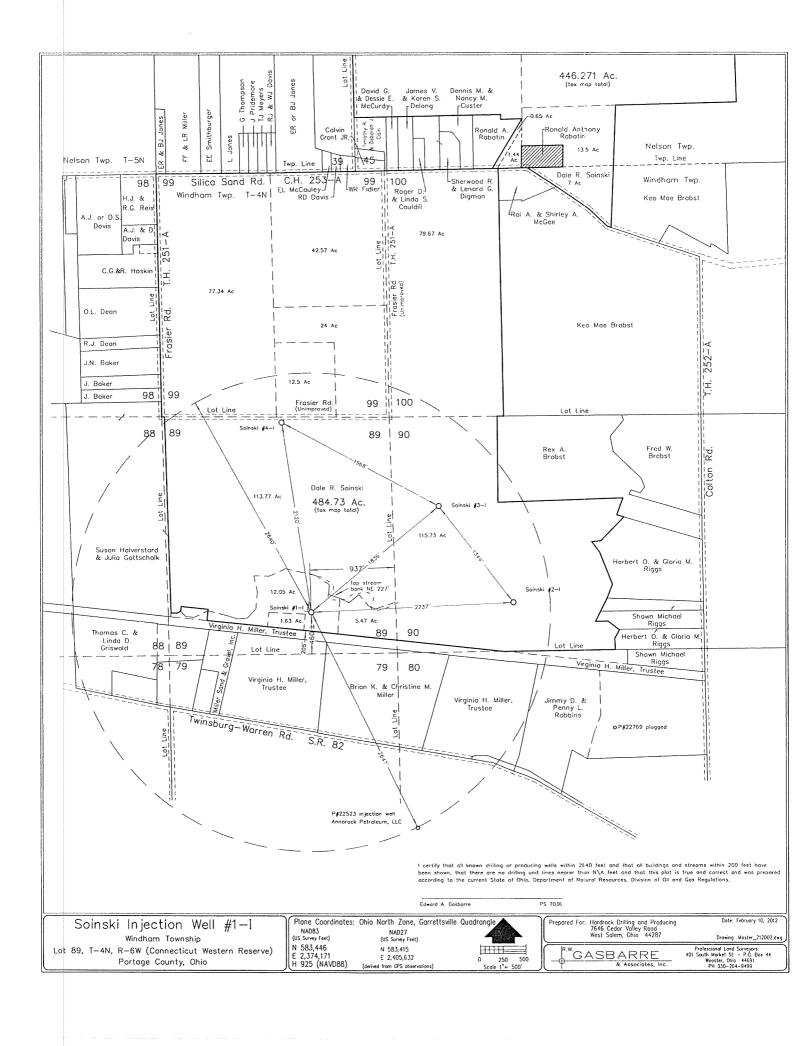
38. Public notice of an application for an enhanced recovery project is required by law. In addition, the applicant must submit, on an attached sheet, a list of the names and address of those persons required to receive personal notice in accordance with Rule 1501:9-5-05(E)(1), of the Ohio Administrative 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 1501:9-5-05(E)(1) 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 days after the Division determines that the application is complete.

In addition, notice of all applications for enhanced recovery projects will be published in the Division's Weekly Circular.

The undersigned hereby agrees to comply with all provisions for an enhanced recovery project as required by Chapter 1501:9-5 of the Ohio Administrative Code. In addition, the undersigned deposed and says that he shall conform to all provisions of Section 1509.072 of the Ohio Revised Code, and to all orders and rules issued by the Chief, Division of Oil and Gas Resources Management.

Owner/Authorized Agent (Type or Print):	Charles I WHER	
Signature of Owner/Authorized Agent:	CAR Titte	Title: Res
Permanent Address of Home Office:	netto Cedar Valley Ril	W. Solem, OH 441287
If signed by Authorized Agent, a certified copy o	f appointment of agent must be on file with	the Division.
SWORN to and subscribed before me this 20	_day of March	, 20 12.
NRY Pile.	this truly (	k Cutt
(SEAL) Public, State of	Ohio Amil 4	Notary Public
My Commission Expi April 1, 2012	res	Date Commission Expires



## **APPLICATION FOR A PERMIT (Form 1)**

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

SEE INSTRUCTIONS O

I I			
1. I, We (applicant)	Hard Rock Drilling & Prod	ucing LLC 2. Owner:	#: 8837
(address)	7646 Cedar Valley Road, West Sa		#: 419-846-3850
hereby apply this date		for a permit to:	
Reissue (check app	ropriate blank)	Location	Convert
☑ Drill New Well	Plug Ba		Deepen
Drill Directionally		d Abandon	∐ Reopen
Drill Horizontally		Well Program	Temporary Inactive
3. TYPE OF WELL:		Disposal Saltwater Injection	
	Stratigraphic Test Gas Sto	rage Uther (explain):	
	☐ Solution Mining* ☐ Enhance	ed Recovery* (*if checked, select ap	proprieto hay below
	☐ Input/Injection ☐ Water S		Production/Extraction
4 MAIL DEDMITTO			
4. MAIL PERMIT TO: Hard Rock Drilling & Producing	LLC, 7646 Cedar Valley Road, West	20. TYPE OF TOOLS:	7 a. n.
Salem, Ohio 44287	J LLC, 7040 Cedar Valley Road, West	☐ Cable ☐ Cable / Air Rotary	☐ Air Rotary
,		Cable / Fluid Rotary	☑ Air / Fluid Rotary ☑ Fluid Rotary
		Cable / Air / Fluid Rotary	Service Rig
5. COUNTY:	Portage	21. PROPOSED CASING PROGRAM	<u> </u>
6. CIVIL TOWNSHIP:	Windham	21. PROPOSED CASING PROGRAM	DA '60.
7. SECTION:	8. LOT: 89	<b>-</b>	GOS AA
9. FRACTION:	10. QTR TWP:	16" Conductor cement to surface, 11 3	
11. TRACT / ALLOT:		surface, 8 5/8 surface to 4200', 5 1/2 to	ubing set on packer within
12. WELL #:	1	100' of top of perf approximately 4000'	
13. LEASE NAME: Soinsk		7 × W	
14. PROPOSED TOTAL DEPT		`	
15. PROPOSED GEOLOGICAI  Newburg	L FORMATION:	22. FIRE AND MEDICAL DEPARTME	NT TELEPHONE
16. DRILLING UNIT IN ACRES	(must be same as acres	NUMBERS: (closest to well site) Fire: 911	
indicated on plat):	484.73	Medical: 911	
17. IF PERMITTED PREVIOUS		23. MEANS OF INGRESS & EGRESS	
API#:	JET.	1	) <b>.</b>
OWNER:		Township Road: County Road:	
WELL #:		Municipal Road:	
LEASE NAME:		State Highway:	St. Rt. 82
TOTAL DEPTH:			
GEOLOGICAL FORMATIO		24. IS THE WELL LOCATION OR PR	
18. IF SURFACE RIGHTS ARE DEPARTMENT OF NATUR		WITHIN AN URBANIZED AREA A	• • •
I DEPARTMENT DE NATUR	AL RESOURCES	☐ Yes ☑	No
		1	
Division Name:		-	
Division Name:  Division Phone:			
Division Name: Division Phone:  19. LANDOWNER ROYALTY I		1	
Division Name: Division Phone:  19. LANDOWNER ROYALTY I Is There An Attached List?		] No	
Division Name: Division Phone:  19. LANDOWNER ROYALTY I Is There An Attached List? Name: Dale Soinski	☐ Yes ☑		
Division Name: Division Phone:  19. LANDOWNER ROYALTY I Is There An Attached List? Name: Dale Soinski		] No REC	DIVED
Division Name: Division Phone:  19. LANDOWNER ROYALTY I Is There An Attached List? Name: Dale Soinski Address: 10218 Silica Sand	☐ Yes ☑		ARAMA
Division Name: Division Phone:  19. LANDOWNER ROYALTY I Is There An Attached List? Name: Dale Soinski Address: 10218 Silica Sand Name:	☐ Yes ☑		0 2 2012
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Before this application can be processed, an Authority and Organization Form (Form 9), indicating the exact owner name on this form, and proof of compliance with the surety and insurance requirements of Chapter 1509.07, Ohio Revised Code, must be on file with the Division of Oil and Gas Resources Management. The signature of owner/authorized agent must correspond with the signature(s) listed on the Form 9 on file with the Division.

All information requested on this form must be provided unless exempted by the instructions below. Incomplete applications may be returned to the applicant. An application for a permit requires the following:

# 1. Drill, Reopen, Deepen and Plug Back an *Oil and Gas Well* (non-urban valid for 24 months; urban valid for 12 months)

- a. Original and two (2) copies of Application for a Permit (Form 1);
- b. Original and four (4) copies of an Ohio registered surveyor's plat;
- c. Original and one (1) copy of the Restoration Plan (Form 4);
- d. Reopen, deepen, plug back and convert will require three (3) copies of the Well Completion Record (Form 8);
- e. \$500.00 check or money order payable to the Division of Oil and Gas Resources Management and;
- f. If requesting an expedited review, an additional \$250 fee is required; and an Oil & Gas Affidavit (if the proposed well location is in a coal-bearing township).
- g. For an **urbanized area** new well drilling permit, the fee is as follows: \$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; and \$1,000 for all municipal corporations regardless of population.
- h. For mandatory pooling, an additional \$5,000.

#### 2. Reissue or Revised Location

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

#### 3. Plug and Abandon (valid for 24 months)

- a. Original copy of Application for a Permit (Form 1):
- b. Two (2) copies of the Ohio registered surveyor's plat originally filed, or modified, if available;
- c. Three (3) copies of the Well Completion Record (Form 8) if available; if there is no Well Completion Record on file with the Division, provide any drilling information that is available;
- d. \$250 check or money order payable to the Division of Oil and Gas Resources Management;
- e. If requesting an expedited review, an additional \$500 fee is required.

#### 4. Drill, Reissue, Reopen, Deepen, Plug Back or Convert a Well to Saltwater Injection

- a. Same as above: 1(a), (b), (c), (d); and
- b. \$1,000 check or money order payable to the Division of Oil and Gas Resources Management.

#### 5. Temporary Inactive (valid for 12 months)

- a. Original and one (1) copy of Application for a Permit (Form1);
- b. A map, on a scale not smaller than four hundred feet to the inch, that shows the location of the well and the tank battery, that includes the latitude and longitude of the well;
- c. A written statement that the well is of future utility, and that there is a viable plan to use the well within a reasonable period of time and the well poses no threat to the health or safety of persons, property or the environment;
- d. For first application, \$100 check or money order payable to the Division of Oil and Gas Resources Management;
- e. For first renewal, \$250 check or money order payable to the Division of Oil and Gas Resources Management;
- f. For subsequent renewals, \$500 check or money order payable to the Division of Oil and Gas Resources Management; additional bonding may be required.
- Item 1. Permit holder's name as it appears on Form 9. Indicate the type of or combination of activities to be permitted.
- Item 2. Indicate owner number, if the owner number is not known, please contact the Division.
- Item 3. Indicate the type of well for which the application is being submitted.
- Item 4. Provide name, address, city, state and zip code where the permit is to be mailed.
- Items 5-11. Indicate drilling location.
- Items 12-16. Provide requested information.
- Item 17. Complete when application is for a permit to reopen, deepen, reissue, plug back, convert, or plug and abandon. If the well was never permitted, list "NONE" under permit #; all other wells require the permit number.
- Item 18. Complete if surface rights are owned by the Ohio Department of Natural Resources.
- Item 19. List names and addresses of all landowner royalty interest holders. Names must coincide with those shown on the designated unit or subject tract on the surveyor's plat or an explantion must be included. Additional sheets may be attached (overriding royalty and working interests are not required).
- Item 20. Indicate type of tools that may be used.
- Item 21. Indicate size and amount of casing to be used, and/or formations to be cased off.
- Item 22. Indicate fire and medical department emergency telephone numbers closest to the well site.
- Item 23. List all county, township, and/or municipal roads, streets and highways by name or number that applicant anticipates to use as means of ingress and egress to and from the well site.
- Item 24. An "urbanized area" is a municipal corporation or a township that has an unincorporated population of more than than five thousand, as defined under Section 1509.01 (Y) of the Ohio Revised Code. Notice must be provided by regular mail to the owner of each parcel of real property that is located within five hundred feet of the surface location of the well, and to either the executive authority of the municipal corporation or the board of township trustees (see 1509.06 (A) (9)).

# SUPPLEMENT TO APPLICATION PERMIT FOR AN ENHANCED RECOVERY PROJECT (Form 203)

Ohio Department of Natural Resources, Division of Oil and Gas Resources Management 2045 Morse Road, Bldg H3
Columbus, OH 43229-6693

AREA OF REVIEW. An application for an Enhanced Recovery Project (ERP) will be evaluated on the basis of an "area of review" surrounding the proposed input wells for the project. The area of review for projects in which injection of greater than two hundred barrels per day per well is proposed shall be the area circumscribed by a circle with one center point at the location of each input well and a radius of one-half mile. The area of review for projects in which a maximum injection of two hundred barrels per day per well or less is proposed shall be the area circumscribed by a circle with the center point at the location of each input well and a radius of one-quarter mile. Projects in which gas is the proposed injection fluid will have an area of review consisting of an area circumscribed by a circle with the center point at the location of each input well and a radius of one-quarter mile.

MELL CONSTRUCTION AND OPERATION  A. Description of the proposed casing and cement program for new wells, or of the casing, cementing or sealing prepared clay for existing wells to be converted.  1134/casing surface to 600°, 8 5/8 casing surface to 4000° open hole with 1500° of cement fill up.  5 1/2 tubing set on a packer at approx. 3900°. Well will be bond logged to show cement top.  B. Proposed method for testing the casing:  Pressure test to be done after cementing of longstring. A bond log to show integerty and cement to Pressure up on longstring after cementing before open hole.  C. Description of the proposed method for completion and operation of the injection well:  5 1/2 tubing set on a packer at approx. 3900°.  D. Description of the proposed unloading, surface storage, and spill containment facilities:  The unloading area will be concrete with a concrete vault to hold any spillage. The water will be stored or 400 BBL tanks which will be placed on a concrete pad with concrete walls. This dike will be of sufficient or 400 BBL tanks which will be placed on a concrete pad with concrete walls. This dike will be of sufficient into the tanke. Water will be filtered to the injection punch or 400 BBL tanks which will be a strainer/ filter into the tanke. Water will be filtered to the injection punch or 400 BBL tanks will unload through a strainer/ filter into the tanke. Water will be filtered to the injection punch or 400 BBL tanks will unload through a strainer/ filter into the tanke. Water will be filtered to the injection punch or 400 BBL tanks will unload through a strainer/ filter into the tanke. Water will be filtered to the injection punch or 400 BBL tanks will unload through a strainer/ filter into the tanke. Water will be filtered to the injection punch or 400 BBL tanks will unload through a strainer/ filter into the proposed injection well per day:  AVERAGE:  A Indicate the method to be used to measure the actual amount of saltwater into the proposed injection well:  AVERAGE:  B. Indicate the estimat	4050 4000 feet to	4200 Polimite				
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Paperwork turned in by drivers. Electronics on unload station to monitor trucks & amount of water with floop PROPOSED INJECTION PRESSURES  A. Indicate the estimated pressure to be used for injection of saltwater into the proposed injection well:  AVERAGE:  800  MAXIMUM:  1000  92  B. Indicate the method to be used to measure the actual daily injection pressure:  Guages on wellhead recorded be well tender and electronics on the well with tranducers	t of saltwater to be injected into the propo	injection well per day: : 1600				
A. Indicate the estimated pressure to be used for injection of saltwater into the proposed injection well:  AVERAGE:  800  MAXIMUM:  1000  97  B. Indicate the method to be used to measure the actual daily injection pressure:  Guages on wellhead recorded be well tender and electronics on the well with tranducers	t of saltwater to be injected into the propo 800 MAXIM	:1600				
A. Indicate the estimated pressure to be used for injection of saltwater into the proposed injection well:  AVERAGE:  800  MAXIMUM:  1000  97  B. Indicate the method to be used to measure the actual daily injection pressure:  Guages on wellhead recorded be well tender and electronics on the well with tranducers	t of saltwater to be injected into the propo 800 MAXIM  d to measure the actual amount of saltwater	:1600 jected into the well:				
B. Indicate the method to be used to measure the actual daily injection pressure:  Guages on wellhead recorded be well tender and electronics on the well with tranducers	t of saltwater to be injected into the propo  800 MAXIM  d to measure the actual amount of saltwaterivers. Electronics on unload station to mo	:1600 jected into the well:				
Guages on wellhead recorded be well tender and electronics on the well with tranducers	t of saltwater to be injected into the propo  800 MAXIM  d to measure the actual amount of saltwaterivers. Electronics on unload station to mo	:				
Guages on wellhead recorded be well tender and electronics on the well with tranducers	t of saltwater to be injected into the propo  800 MAXIM  d to measure the actual amount of saltwaterivers. Electronics on unload station to mo	:				
PROPOSED CORRECTIVE ACTION	t of saltwater to be injected into the propo  800 MAXIM  d to measure the actual amount of saltwaterivers. Electronics on unload station to mo  SURES  re to be used for injection of saltwater into  800 MAXIM	is				
	t of saltwater to be injected into the propo  800 MAXIM  d to measure the actual amount of saltwaterivers. Electronics on unload station to mo  SURES  re to be used for injection of saltwater into  800 MAXIM  d to measure the actual daily injection pre	in the well:  I trucks & amount of water with flowmer  proposed injection well:  1000				
Explain any corrective action proposed for wells penetrating the proposed injection formation or zone within the are	t of saltwater to be injected into the propo  800 MAXIM  d to measure the actual amount of saltwater invers. Electronics on unload station to mo  SURES  re to be used for injection of saltwater into 800 MAXIM  d to measure the actual daily injection pre- yellhead recorded be well tender and electronics.	in the well:  I trucks & amount of water with flowmer  proposed injection well:  1000				
review.  The only well within the area of review is an existing disposal well	t of saltwater to be injected into the propo  800 MAXIM  d to measure the actual amount of saltwater invers. Electronics on unload station to mo  SURES  re to be used for injection of saltwater into  800 MAXIM  d to measure the actual daily injection pre- yellhead recorded be well tender and electronics.	is				

- 36. MAP. Each application for a permit shall be accompanied by a map or maps showing and containing the following information:
  - A. The subject area trace or tracts of land and their owners upon which the proposed enhanced recovery operations are to be conducted;
  - B. The location and designation of all input, withdrawal, or observation wells on the tract or tracts to be utilized in the enhanced recovery project.
  - 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 area.
  - 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.

	SCHEMATIC	Cenent Fill U/2 1800 A PACKER PACKER	(a) 3666
元 SURFACE CASING @ しいひ	B FRODUCTION CASING @ 4CCL	1/2 TUBING @ 37/2C'	TD 47800 '

38. Public notice of an application for an enhanced recovery project is required by law. In addition, the applicant must submit, on an attached sheet, a list of the names and address of those persons required to receive personal notice in accordance with Rule 1501:9-5-05(E)(1), 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 1501:9-5-05(E)(1) 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 days after the Division determines that the application is complete.

In addition, notice of all applications for enhanced recovery projects will be published in the Division's Weekly Circular.

The undersigned hereby agrees to comply with all provisions for an enhanced recovery project as required by Chapter 1501:9-5 of the Ohio Administrative Code. In addition, the undersigned deposed and says that he shall conform to all provisions of Section 1509.072 of the Ohio Revised Code, and to all orders and rules issued by the Chief, Division of Oil and Gas Resources Management.

Owner/Authorized Agent (Type or Print):	Charles I Cuffer	
Signature of Owner/Authorized Agent:	CU JUAN	Title: Poes
Permanent Address of Home Office:	7646 Gedar Valley Rd	W. Sulem OH 44267
If signed by Authorized Agent, a certified copy of		e Division.
SWORN to and subscribed before me this 20	_ day of	, 20 12.
STAL CUT	TER Fontul	4 Cutt
(SEAL), Public, State o		Notary Public
are Commission Ex	-	te Commission Expires
TE OF		·

# RESTORATION PLAN (Form 4) Ohio Department of Natural Resources

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

1. DATE OF APPLICATION: 21-Mar-12	
2. OWNER NAME, ADDRESS, & TELEPHONE NO.:	3. API#:
Hard Rock Drilling & Producing LLC, 7646 Cedar Valley Road, West	4. WELL #: 1
Salem, Ohio 44287 (419) 846-3850	5. LEASE NAME: Soinski
	6. PROPERTY OWNER: Dale Soinski
	7. COUNTY: Portage
	8. CIVIL TOWNSHIP: Windham
11. CURRENT LAND USE:	9. SECTION: 10. LOT: 89 17. TYPE OF WELL:
Cropland Commercial	☐ Oil ☐ Gas ☑ Other
Pasture Idle Land	Oil Class & Other
☐ Wetlands ☑ Recreational	18. STEEPEST SLOPE GRADIENT CROSSING SITE:
Residential Industrial	□ 0 to 2%
Unreclaimed strip mine	8.1 to 10%
☐ Woodland: ☐ Broadleaf ☐ Needlelike	☐ 10.1 to 24% ☐ greater than 24%
12. SLOPE GRADIENT & LENGTH DETERMINED FROM:	19. LENGTH OF STEEPEST SLOPE CROSSING SITE:
☑ Ground Measurement	
U.S. Geological Survey Topographical Maps	☐ 1 to 100 ft. ☐ 101 to 200 ft.
Other: (explain)	☑ 201 to 400 ft. ☐ greater than 400 ft.
13. TYPE OF FALL VEGETAL COVER:	20. RESTORATION OF DRILLING PITS: **
✓ Little or no vegetal cover	✓ Haul drilling fluids and fill pits
☐ Short grasses	☐ Use steel circulating tanks
Tall weeds or short brush (1 to 2 ft.)	Proposed alternative
Brush or bushes (2 to 6 ft.)	
Agricultural crops	21. BACKFILLING AND GRADING AT SITE:
☐ Trees with sparse low brush☐ Trees with dense low brush☐	Construct diversions channeled to naturally established
	drainage systems
14. SOIL & RESOILING MATERIAL AT WELLSITE:  Stockpile and protect topsoil to be used when preparing	Construct terraces across slopes
Stockpile and protect topsoil to be used when preparing seedbed	Grade to approximate original contour Grade to minimize erosion & control offsite runoff
Use of soil additives (e.g., lime, fertilizer)	Proposed alternative
No resoiling planned	22. VEGETATIVE COVER TO BE ESTABLISHED AT SITE:
Proposed alternative	Seeding plan
15. DISPOSAL PLAN FOR TREES AND TREE STUMPS:	Agricultural crops
✓ No trees disturbed ☐ Haul to landfill	Proposed alternative
☐ 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	24. PROPOSED OR CURRENT LENGTH OF ACCESS ROAD:
☐ Use for wildlife habitat with landowner approval	✓ 100 ft. or less ☐ 101 to 500 ft.
Proposed alternative	☐ 501 to 1500 ft. ☐ greater than 1500 ft.
16. SURFACE AND SUBSURFACE DRAINAGE FACILITIES:	25. CURRENT LAND USE OF PATH OF ACCESS ROAD:
No existing drainage facilities for removal of surface and/	Cropland   Pasture   Commercial
or subsurface water	☐ Idle land ☐ Wetlands ☐ Recreational
Tile drainage system underlying land to be disturbed	☐ Industrial ☐ Residential
☐ Drain pipe(s) underlying land to be disturbed	☐ Unreclaimed strip mine
☐ Surface drainage facilities on land to be disturbed	☐ Woodland: ☐ <u>Broadleaf</u> ☐ <u>Needlelike</u>
**PITS MUST BE FILLED WITHIN TWO MONTHS AFTER COMMENCEMENT OF TH	IE WELL AND WITHIN FOURTEEN DAYS AFTER COMMENCEMENT OF THE WELL IN
AN URBANIZED AREA.	
RECHIRED BY SECTION 1500 06 (A)(10) ONIO DEVISED CODE. FAILURED TO	RECEIVED
\$100.00 NOR MORE THAN \$2,000.00 OR CIVIL PENALTIES NOT LESS THAN \$4,00	SUBMIT MAY RESULT IN AN ASSESSMENT OF CRIMINAL FINES NOT LESS THAN
	APR 6.2 1712
DNR-744-7002 (Revised 10/2011)	Page 1 of 2
- V	raye i di z
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26.	SURFACING MATERIAL FOR ACCESS ROAD:  Gravel Brick and/or tile waste  Slag Crushed stone  No surfacing material to be used	29. STEEPEST SLOPE GRADIENT ON ACCESS ROAD:  0 to 5% 6 to 10%			
	Proposed alternative	☐ 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:  0 to 100 ft. 101 to 200 ft. 201 to 400 ft. greater than 400 ft.			
28.	GRADING AND EROSION CONTROL PRACTICE ON ROAD:  Diversions Filter strips Riprap Open top culverts Outsloping of road Pipe culverts Proposed alternative	31. HAS LANDOWNER RECEIVED A COPY OF THIS RESTORATION PLAN?  Yes  No			
The the	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.				
Sign	ature of Owner/Authorized Agent	5			
Nam	e (Typed or Printed) <u>Charles</u> T Cuffer	Date 3-28-/2			
	RESTORATION PLAN MUST BE SUBMIT	TTED TO THE DIVISION IN DUPLICATE.			

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APR 0 2 2012

Revised 10/2011 DNR-744-7002

Page 2 of 2

# STATE OF OHIO THE OHIO DEPARTMENT OF NATURAL RESOURCES THE DIVISION OF OIL AND GAS RESOURCES MANAGEMENT 2045 MORSE ROAD, BUILDING H-3 COLUMBUS, OHIO 43229-6693

## **OIL AND GAS AFFIDAVIT**

Ap	pplication No.
	(To be filled in by the Division)
STATE OF Ship ss:	
COUNTY OF Portege	
	€.:
ADDRESS OF LANDOWNER: 10218 5.	lika Sand Rd. Converts ville, Oh 4/23,
Being first duly sworn according to law, depose and	say that they are the owners of the following
described real estate:	
Located in	Quarter of
Section	
Section  Fraction/Lot & G , County, Oh	Windham Township,
Lorrage County, Oh	io.
The undersigned certify that they are the owners of t	the property in fee simple, including the coal
rights, and have no objections to the drilling of the	Soinski / T , by the
Hard Port Dalling + Darding	on said promises
Hard Pock Drilling + Producing (Company)	on salu premises.
Further affiant sayeth naught	
Signatures:	Something.
Signatures:	
Signatures:	
Signatures:	
SWORN to before me and subscribed in my presence	e this 24
Day of $M()/C)$	,20 1Q RECEIVED
	A 100 (10 to 10)
Notary Public: A Mark (M)	KRISTIN L. CUTTER
( )	Notary Public, State of Ohio
	My Commission Expires April 1, 2012

DNR-744-7001 Revised 10/2011

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

State of Ohio, Wayre	County, ss
State of Ohio, Wayre Charles J Wyer	being first duly
sworn says that as principal, or authorized agent, for Herochfood Dulling + Pour	, he or she has
made application for a saltwater injection well in the State of Ohio Redage	
Township, section/lot number 87; and further certifies that notice of appli	cation has been
delivered to each individual entitled to personal notification in accordance with paragraph	
1501:9-306 of the Ohio Administrative Code. And further affiant saith not.	
Affiant Signature	
Sworm to before me and subscribed in my presence this day of	ch,
Public, State of Ohio Commission Expires April 1, 2012	

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SPR 02 MY

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

State of Ohio, Wayne.	County, ss
	being first duly
sworn says that as principal, or authorized agent, for Hand Rock Duilleg	L Pour, he or she has
made application for a saltwater injection well in the State of Ohio	County, Wedle
Township, section/lot number; and further certifies that notice	of application has been
delivered to each individual entitled to personal notification in accordance with p	aragraph (E) of Rule
1501:9-306 of the Ohio Administrative Code. And further affiant saith not.	
Affiant Sign	nature
Sworn to before me and subscribed in my presence this day of	March,
My Commission Expires April 1, 2012	

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APR 0 2 2012

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

State of Ohio	, U	layne	County, ss
State of Ohio Charles	J Cutter	/	being first duly
sworn says that as principal, or au	thorized agent, for	notherk Drie	1 + Pared, he or she has
made application for a saltwater in			
Township, section/lot number	gc; and furt	her certifies that not	ice of application has been
delivered to each individual entitle			
1501:9-306 of the Ohio Administ			
		Affiant S	Signature
Sworn to before me and subscribed 20 \\ \frac{1}{2}.	in my presence this	28 day	of March,
KRISTIN L. C. Notary Public, Sta My Commission April 1, 20	Expires	Motar	y Public
		RECI	DIVED

APR 0 2 2012

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

State of		Ulyne		County, ss
Cho	·des J (	SHer		being first duly
sworn says that as principal	l, or authorized ago	ent, for Howel Hock Vi	rillay & Hould	he or she has
made application for a salty	water injection wel	ll in the State of Ohio!	Rockage	, County, Wordha
Township, section/lot numb	per <u>89</u>	; and further certifies th	at notice of appli	cation has been
delivered to each individua				
1501:9-306 of the Ohio A	dministrative Code	e. And further affiant saith	not.	
			fiant Signature	
Sworn to before me and sub $20$ $\bigcirc$ .	scribed in my pres	sence this	day of Mar	Ch,
	N. L. CUTTER  ablic, State of Ohio  mission Expires  All 1, 2012	Hestri C	Notary Public	

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APR 0 2 2012

#### PARTIAL RELEASE OF OIL AND GAS LEASE RIGHTS

The undersigned, America's Energy Exploration, Inc. and Perry Petroleum, LLC, (collectively "Lessees") for valuable consideration the receipt of which is hereby acknowledged, do hereby release and relinquish the right to produce oil and gas from geologic formations located from the surface to the top of the Queenston Formation, in and to the following:

Ollend Cas Lease, recorded with the Recorder of Portage County, Obie, in Official Record

through the above described geologic formations to explore for and produce oil and gas from deeper

lustrument flumber 201011014. No the transfer of This Partial Rolease shall not affect the rights of Lessees and their successors and assigns to drill Signed on September 2011. America's Energy Exploration, Inc. STATE OF OHIO. COUNTY OF \_\_\_\_ The foregoing instrument was acknowledged before me this \_th day of September 2011 by Cynthia L. Covert, President of America's Energy Exploration, Inc., an Ohio corporation, on behalf of the corporation. Rolary Public State or Cin My Commission Expires 2-26-2014 Notary Public Signed on September (2), 2011. Perry Petroleum, LLC

STATE OF OHIO, I see a second of the second
COUNTY OF, SS:
The foregoing instrument was acknowledged before me t

fore me this \_\_th day of September 2011 by Parry Pipes, manager of Perry Petroleum, LLC, an Ohio limited liability company, on behalf of the company. ChesConsi

Motory Priblic, State of CH My Commission Explore 2-15-2-14 of

Jury Public

This Instrument Prenared By-

| Title | | Titl

## FARTIAL RELEASE OF OIL AND GAS LEASE RIGHTS

The undersigned. America's Energy Exploration, Inc. and Perry Petroleum, LLC. (axinotively to essees") for valuable consideration the receipt of which is hereby acknowledged, do hereby receives and relinquish the right to produce oil and gas from geologic formations located from the surface to the located from the

surface to the log-	of the Queenston Formation, in	and to the following:		
Offical Gas Less Instrument Nom	se, recorded with the Recorde ber <u>201807160012822</u> .	r of Trumbull Coun	ty, Ohio, in <b>Official</b> R	tecord
This Parti Urrough the above seed eate formation	al Release shall not affect the ri described geologic formations ns.	ghts of Lessees and the to explore for and pro-	noir successors and associate oil and gas from	igns to deeper
2g2cl or	Ey:	ica's Energy Explor	<u>(/</u>	
STATE OF OHIO COUNTY OF	;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;			
the corporation.	Ву:	Petroleum, LLC	Ohio corporation, on I	)11 by penalf of
STATE OF CHIO.	<u> 1701-17,486</u> , ss:			
The forego Perry Pipes, manag company.	ing instruñfent was acknowledg or of Perry Petroleum, J.L.C., an Glos Accief. Holog Tubik, Siere of Cro Hy Countedin Ladro 1941-1964	ed before me thistl Onio limited liability	a day of September 20 company, on behalf of	II by fthe
This Instrument Pro Christopher C. Wag Vorys, Sater, Seymo 52 East Gay Street P.O. Box 1008, 100	ger			

# Hard Rock Drilling & Producing 7646 Cedar Valley Road West Salem, Ohio 44287

June 21, 2012
Division of Mineral Resources Management
2045 Morse Road, Bldg. H-3
Columbus, Ohio 43229
Dear Tom,
As per your request on the mineral rights under the Solinski property I am sending you the partial release on the mineral rights under the Solinski property. The permit from Pep drilling was submitted before the release of the mineral rights back to Dale Solinski. As to our research on the property we have leased the minerals from the surface to the top of the Queenston. If you have any other question please feel free to contact me.
Thanks,
CJ Cutter

# STATE OF OHIO THE OHIO DEPARTMENT OF NATURAL RESOURCES THE DIVISION OF OIL AND GAS RESOURCES MANAGEMENT 2045 MORSE ROAD, BUILDING H-3 COLUMBUS, OHIO 43229-6693

## **OIL AND GAS AFFIDAVIT**

	Applic	cation No.	
		(To be fi	lled in by the Division)
	hio ss:		
COUNTY OF 12	orlage	ž	
NAME OF LANDOWNER	R: Dorle Sinski		
ADDRESS OF LANDOW	NER: 10218 5.118	a Sand Rd	Gamphsville, OK 442
	according to law, depose and say		
described real estate:			
Located in			Quarter of
Section	90 , <i>W</i>		
Fraction/Lot	<u>90</u> , <u>u</u>	indhan	Township,
Portage	County, Ohio.		
I he undersigned certify	that they are the owners of the	property in fee simp	le including the coal
rights, and have no obje	ections to the drilling of the	Soinski 2.	, by the
Ha of Pook Di	11 1 20 1	(Well Name & I	Vo.)
(Company)	Ving + Producing on	said premises.	
	•		RECEIVED
Further affiant sayeth na	aught /		APR <b>0</b> 2 2012
Signatures:	Calif.	South	73 0 W & CBR.
Signatures:			
Signatures:			
Signatures:			
SWORN to before me an	d subscribed in my presence thi	s JH	
Day of March		, 20 12	
Notary Public:	the of Cutt	O NOT NOT	USTIN L. CUTTER
		NOIS MY	ry Public, State of Ohio  Commission Expires  April I, 2017

DNR-744-7001 Revised 10/2011

## **APPLICATION FOR A PERMIT (Form 1)**

OHIO DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS RESOURCES MANAGEMENT
2045 Morse Road, Building H-3
COLUMBUS, OHIO 43229-6693

\$1158

(614) 265-6633 SEE INSTRUCTIONS ON PAGE 2 (BACK) 1. I, We (applicant) Hard Rock Drilling & Producing LLC 2. Owner #: 8837 7646 Cedar Valley Road, West Salem, Ohio 44287 (address) Phone #: 419-846-3850 hereby apply this date , 20 \_\_\_12 for a permit to: Reissue (check appropriate blank) Revised Location Convert Drill New Well Plug Back Deepen **Drill Directionally** Plug and Abandon Reopen Drill Horizontally Orphan Well Program **Temporary Inactive** 3. TYPE OF WELL: Oil & Gas Annular Disposal Saltwater Injection ☐ Stratigraphic Test Gas Storage Other (explain): ☐ Solution Mining\* ☐ Enhanced Recovery\* ( \* if checked, select appropriate box below) ☐ Input/Injection ☐ Water Supply Observation ☐ Production/Extraction 4. MAIL PERMIT TO: 20. TYPE OF TOOLS: Hard Rock Drilling & Producing LLC, 7646 Cedar Valley Road, West Cable Salem, Ohio 44287 Cable / Air Rotary ☑ Air / Fluid Rotary Cable / Fluid Rotary Fluid Rotary Cable / Air / Fluid Rotary Service Rig 5. COUNTY: Portage 21. PROPOSED CASING PROGRAM: 6. CIVIL TOWNSHIP: Windham 7. SECTION: 8. LOT: 89 9. FRACTION: 10. QTR TWP 16" Conductor cement to surface, 11 3/4 surface to 350' cement to 11. TRACT / ALLOT: surface, 8 5/8 surface to 4200', 5 1/2 tubing set on packer within 12. WELL #: 100' of top of perf approximately 4000' 13. LEASE NAME: Soinski 14. PROPOSED TOTAL DEPTH: 4200 15. PROPOSED GEOLOGICAL FORMATION: 22. FIRE AND MEDICAL DEPARTMENT TELEPHONE Newburg NUMBERS: (closest to well site) 16. DRILLING UNIT IN ACRES (must be same as acres Fire: 911 indicated on plat): Medical: 911 17. IF PERMITTED PREVIOUSLY: 23. MEANS OF INGRESS & EGRESS: API#: Township Road: OWNER: County Road: WELL#: Municipal Road: LEASE NAME: State Highway: St. Rt. 82 TOTAL DEPTH: **GEOLOGICAL FORMATION:** 24. IS THE WELL LOCATION OR PRODUCTION FACILITIES 18. IF SURFACE RIGHTS ARE OWNED BY THE OHIO WITHIN AN URBANIZED AREA AS DEFINED BY 1509.01(Y)? DEPARTMENT OF NATURAL RESOURCES ☐ Yes ☑ No Division Name: Division Phone: 19. LANDOWNER ROYALTY INTEREST: Is There An Attached List? Yes ✓ No Name: Dale Soinski Address: 10218 Silica Sand Road, Garrettsville, Ohio 44231 Name: Address: Name: Address: I, the undersigned, being first duly sworn, depose and state under penalties of law, that I am authorized to make this application, that this application was prepared by me or under my supervision and direction, and that the facts stated herein are true, correct, and complete, to the best of my knowledge. I, the undersigned, further depose and state that I am the person who has the right to drill on the tract or drilling unit and to drill into and produce from a pool and to appropriate the oil or gas that I produce therefrom either for myself or others as described in this application. And furthermore, I the undersigned, being duly sworn, depose and state at this time that I am not liable for any final nonappealable order of a court for damage to streets, roads, highways, bridges, culverts, or drainage ways pursuant to Section 5577.12 of the Ohio Revised Code (ORC). I, the undersigned, further depose and state that all notices required by 1509.06 (A) (9) ORC for this application have been duly provided by me. If applying for a permit to plug and abandon a well, I hereby certify that the written notices, as required in Section 1509.13, ORC, have been given. That I hereby agree to conform with all provisions of Chapter 1509., ORC, and Chapter 1501., OAC, and all orders and conditions issued by the Chief, Division of Oil and Gas Resources Management. Signature of Owner/Authorized Agent Name (Type or Print) If signed by Authorized Agent, a certificate of appointment of agent must be on file KRISTIN L. CUTTER Notary Public, State of Ohio My Commission Expires April 1, 2012

(Date Commission Expires)

DNR 5619 (Rev. 10/2011)

Before this application can be processed, an Authority and Organization Form (Form 9), indicating the exact owner name on this form, and proof of compliance with the surety and insurance requirements of Chapter 1509.07, Ohio Revised Code, must be on file with the Division of Oil and Gas Resources Management. The signature of owner/authorized agent must correspond with the signature(s) listed on the Form 9 on file with the Division.

All information requested on this form must be provided unless exempted by the instructions below. Incomplete applications may be returned to the applicant. An application for a permit requires the following:

# 1. Drill, Reopen, Deepen and Plug Back an *Oil and Gas Well* (non-urban valid for 24 months; urban valid for 12 months)

- a. Original and two (2) copies of Application for a Permit (Form 1);
- b. Original and four (4) copies of an Ohio registered surveyor's plat;
- c. Original and one (1) copy of the Restoration Plan (Form 4);
- d. Reopen, deepen, plug back and convert will require three (3) copies of the Well Completion Record (Form 8),
- e. \$500.00 check or money order payable to the Division of Oil and Gas Resources Management and;
- f. If requesting an expedited review, an additional \$250 fee is required; and an Oil & Gas Affidavit (if the proposed well location is in a coal-bearing township).
- g. For an **urbanized area** new well drilling permit, the fee is as follows: \$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; and \$1,000 for all municipal corporations regardless of population.
- h. For mandatory pooling, an additional \$5,000.

#### 2. Reissue or Revised Location

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

#### 3. Plug and Abandon (valid for 24 months)

- a. Original copy of Application for a Permit (Form 1);
- b. Two (2) copies of the Ohio registered surveyor's plat originally filed, or modified, if available;
- c. Three (3) copies of the Well Completion Record (Form 8) if available; if there is no Well Completion Record on file with the Division, provide any drilling information that is available;
- d. \$250 check or money order payable to the Division of Oil and Gas Resources Management;
- e. If requesting an expedited review, an additional \$500 fee is required.

## 4. Drill, Reissue, Reopen, Deepen, Plug Back or Convert a Well to Saltwater Injection

- a. Same as above: 1(a), (b), (c), (d); and
- b. \$1,000 check or money order payable to the Division of Oil and Gas Resources Management.

#### 5. Temporary Inactive (valid for 12 months)

- a. Original and one (1) copy of Application for a Permit (Form1);
- b. A map, on a scale not smaller than four hundred feet to the inch, that shows the location of the well and the tank battery, that includes the latitude and longitude of the well;
- c. A written statement that the well is of future utility, and that there is a viable plan to use the well within a reasonable period of time and the well poses no threat to the health or safety of persons, property or the environment;
- d. For first application, \$100 check or money order payable to the Division of Oil and Gas Resources Management;
- e. For first renewal, \$250 check or money order payable to the Division of Oil and Gas Resources Management;
- f. For subsequent renewals, \$500 check or money order payable to the Division of Oil and Gas Resources Management; additional bonding may be required.
- Item 1. Permit holder's name as it appears on Form 9. Indicate the type of or combination of activities to be permitted.
- Item 2. Indicate owner number, if the owner number is not known, please contact the Division.
- Item 3. Indicate the type of well for which the application is being submitted.
- Item 4. Provide name, address, city, state and zip code where the permit is to be mailed.
- Items 5-11. Indicate drilling location.
- Items 12-16. Provide requested information.
- Item 17. Complete when application is for a permit to reopen, deepen, reissue, plug back, convert, or plug and abandon. If the well was never permitted, list "NONE" under permit #; all other wells require the permit number.
- Item 18. Complete if surface rights are owned by the Ohio Department of Natural Resources.
- Item 19. List names and addresses of all landowner royalty interest holders. Names must coincide with those shown on the designated unit or subject tract on the surveyor's plat or an explantion must be included. Additional sheets may be attached (overriding royalty and working interests are not required).
- Item 20. Indicate type of tools that may be used.
- Item 21. Indicate size and amount of casing to be used, and/or formations to be cased off.
- Item 22. Indicate fire and medical department emergency telephone numbers closest to the well site.
- Item 23. List all county, township, and/or municipal roads, streets and highways by name or number that applicant anticipates to use as means of ingress and egress to and from the well site.
- Item 24. An "urbanized area" is a municipal corporation or a township that has an unincorporated population of more than than five thousand, as defined under Section 1509.01 (Y) of the Ohio Revised Code. Notice must be provided by regular mail to the owner of each parcel of real property that is located within five hundred feet of the surface location of the well, and to either the executive authority of the municipal corporation or the board of township trustees (see 1509.06 (A) (9)).

# SUPPLEMENT TO APPLICATION PERMIT FOR AN ENHANCED RECOVERY PROJECT (Form 203)

Ohio Department of Natural Resources, Division of Oil and Gas Resources Management 2045 Morse Road, Bldg H3
Columbus, OH 43229-6693

AREA OF REVIEW. An application for an Enhanced Recovery Project (ERP) will be evaluated on the basis of an "area of review" surrounding the proposed input wells for the project. The area of review for projects in which injection of greater than two hundred barrels per day per well is proposed shall be the area circumscribed by a circle with one center point at the location of each input well and a radius of one-half mile. The area of review for projects in which a maximum injection of two hundred barrels per day per well or less is proposed shall be the area circumscribed by a circle with the center point at the location of each input well and a radius of one-quarter mile. Projects in which gas is the proposed injection fluid will have an area of review consisting of an area circumscribed by a circle with the center point at the location of each input well and a radius of one-quarter mile.

Inie	Pological Formation: Newburg feet to 4200
	plogic description of injection zone:  Dolimite
WE	ELL 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:
	11 3/4 casing surface to 600', 8 5/8 casing surface to 4000' open hole with 1500' of cement fill up.
	5 1/2 tubing set on a packer at approx. 3900'. Well will be bond logged to show cement top.
B.	Proposed method for testing the casing:
	Pressure test to be done after cementing of longstring. A bond log to show integerty and cement top.
	Pressure up on longstring after cementing before open hole.
C.	Description of the proposed method for completion and operation of the injection well:
	5 1/2 tubing set on a packer at approx. 3900'
D.	Description of the proposed unloading, surface storage, and spill containment facilities:
<b>.</b>	The unloading area will be concrete with a congrete walt to hold a constitute of the contract of the congrete with a congrete walt to hold a congrete with a congrete walt to hold a congrete with a congrete walt to hold a c
	The unloading area will be concrete with a concrete vault to hold any spillage. The water will be stored in 210 or 400 BBL tanks which will be placed on a concrete pad with concrete walls. This dike will be of sufficient
	size to contain all water in case of tank failure.
	Trucks will unload through a strainer/ filter into the tanke. Water will be filtered to the injection pump.
	Trucks will difficult a strainer filter into the tanke. Water will be filtered to the injection pump.
	RECEIVED
	RECEIVED
	RECEIVED  APR 17 2 2012
PRO	
	OPOSED INJECTION VOLUMES
	APR 11 2 2012
A.	OPOSED INJECTION VOLUMES  Indicate the estimated amount of saltwater to be injected into the proposed injection well per day:  AVERAGE: 800 MAXIMUM: 1600
A.	OPOSED INJECTION VOLUMES  Indicate the estimated amount of saltwater to be injected into the proposed injection well per day:  AVERAGE: 800 MAXIMUM: 1600  Indicate the method to be used to measure the actual amount of saltwater injected into the well:
	OPOSED INJECTION VOLUMES  Indicate the estimated amount of saltwater to be injected into the proposed injection well per day:  AVERAGE: 800 MAXIMUM: 1600
A. B.	OPOSED INJECTION VOLUMES  Indicate the estimated amount of saltwater to be injected into the proposed injection well per day:  AVERAGE: 800 MAXIMUM: 1600  Indicate the method to be used to measure the actual amount of saltwater injected into the well:  Paperwork turned in by drivers. Electronics on unload station to monitor trucks & amount of water with flowmet
A. B. <u>PR</u>	OPOSED INJECTION VOLUMES  Indicate the estimated amount of saltwater to be injected into the proposed injection well per day:  AVERAGE: 800 MAXIMUM: 1600  Indicate the method to be used to measure the actual amount of saltwater injected into the well:  Paperwork turned in by drivers. Electronics on unload station to monitor trucks & amount of water with flowmet
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A.  B.  PRO	OPOSED INJECTION VOLUMES  Indicate the estimated amount of saltwater to be injected into the proposed injection well per day:  AVERAGE: 800 MAXIMUM: 1600  Indicate the method to be used to measure the actual amount of saltwater injected into the well:  Paperwork turned in by drivers. Electronics on unload station to monitor trucks & amount of water with flowmet  OPOSED INJECTION PRESSURES  Indicate the estimated pressure to be used for injection of saltwater into the proposed injection well:  AVERAGE: 800 MAXIMUM: 1000 920 051  Indicate the method to be used to measure the actual daily injection pressure:
A. B. PRO A. B.	OPOSED INJECTION VOLUMES  Indicate the estimated amount of saltwater to be injected into the proposed injection well per day:  AVERAGE: 800 MAXIMUM: 1600  Indicate the method to be used to measure the actual amount of saltwater injected into the well:  Paperwork turned in by drivers. Electronics on unload station to monitor trucks & amount of water with flowmet  OPOSED INJECTION PRESSURES  Indicate the estimated pressure to be used for injection of saltwater into the proposed injection well:  AVERAGE: 800 MAXIMUM: 1000 920 055  Indicate the method to be used to measure the actual daily injection pressure:  Guages on wellhead recorded be well tender and electronics on the well with tranducers
A.  B.  PRO A.	OPOSED INJECTION VOLUMES  Indicate the estimated amount of saltwater to be injected into the proposed injection well per day:  AVERAGE: 800 MAXIMUM: 1600  Indicate the method to be used to measure the actual amount of saltwater injected into the well:  Paperwork turned in by drivers. Electronics on unload station to monitor trucks & amount of water with flowmet  OPOSED INJECTION PRESSURES  Indicate the estimated pressure to be used for injection of saltwater into the proposed injection well:  AVERAGE: 800 MAXIMUM: 1000 920 05  Indicate the method to be used to measure the actual daily injection pressure:  Guages on wellhead recorded be well tender and electronics on the well with tranducers  OPOSED CORRECTIVE ACTION
A.  B.  PRO A.  PRO Exp	Indicate the estimated amount of saltwater to be injected into the proposed injection well per day:  AVERAGE: 800 MAXIMUM: 1600  Indicate the method to be used to measure the actual amount of saltwater injected into the well:  Paperwork turned in by drivers. Electronics on unload station to monitor trucks & amount of water with flowmet  OPOSED INJECTION PRESSURES  Indicate the estimated pressure to be used for injection of saltwater into the proposed injection well:  AVERAGE: 800 MAXIMUM: 1000 920  Indicate the method to be used to measure the actual daily injection pressure:  Guages on wellhead recorded be well tender and electronics on the well with tranducers  OPOSED CORRECTIVE ACTION  Islain any corrective action proposed for wells penetrating the proposed injection formation or zone within the area of
A.  PRO A.  PRO PRO	Indicate the estimated amount of saltwater to be injected into the proposed injection well per day:  AVERAGE: 800 MAXIMUM: 1600  Indicate the method to be used to measure the actual amount of saltwater injected into the well:  Paperwork turned in by drivers. Electronics on unload station to monitor trucks & amount of water with flowmet  OPOSED INJECTION PRESSURES  Indicate the estimated pressure to be used for injection of saltwater into the proposed injection well:  AVERAGE: 800 MAXIMUM: 1000 920  Indicate the method to be used to measure the actual daily injection pressure:  Guages on wellhead recorded be well tender and electronics on the well with tranducers  OPOSED CORRECTIVE ACTION  Islain any corrective action proposed for wells penetrating the proposed injection formation or zone within the area of

- <u>MAP</u>. Each application for a permit shall be accompanied by a map or maps showing and containing the following information:
  - The subject area trace or tracts of land and their owners upon which the proposed enhanced recovery operations are to be
  - The location and designation of all input, withdrawal, or observation wells on the tract or tracts to be utilized in the enhanced
  - The geographic location of all wells, penetrating the formation proposed for injection regardless of status, within the area of C.
  - 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 D. subject area.
  - All owners or operators of wells producing from or injecting into the same formation proposed as the injection formation. E.
- SCHEMATIC DRAWING OF SUBSURFACE CONSTRUCTION. Label the schematic drawing below indicating size and setting depth of surface easing, intermediate (if any) and production easings; 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.

	SCHEMATIC	Certent Fill Up 1500 'Sourcent force here's set	® 34cc '
1/2 SURFACE CASING @ LULO!	8 PRODUCTION CASING @ 4KKU'	5/2 TUBING @ 3820'	TD 42000'

38. Public notice of an application for an enhanced recovery project is required by law. In addition, the applicant must submit, on an attached sheet, a list of the names and address of those persons required to receive personal notice in accordance with Rule 1501:9-5-05(E)(1), 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 1501:9-5-05(E)(1) 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 days after the Division determines that the application is complete.

In addition, notice of all applications for enhanced recovery projects will be published in the Division's Weekly Circular.

The undersigned hereby agrees to comply with all provisions for an enhanced recovery project as required by Chapter 1501:9-5 of the Ohio Administrative Code. In addition, the undersigned deposed and says that he shall conform to all provisions of Section 1509.072 of the Ohio Revised Code, and to all orders and rules issued by the Chief, Division of Oil and Gas Resources Management.

Owner/Authorized Agent (Type or Print):	Cheiles J Cutter
Signature of Owner/Authorized Agent:	Cell Jate Title: Poes
Permanent Address of Home Office:	7416 Cedar Valley Rd. W. Salon, OH 1420,
If signed by Authorized Agent, a certified copy of	appointment of agent must be on file with the Division.
SWORN to and subscribed before me this	day of March, 2017
(SEARISTIN L. CUTTE	Fratur & Cuto
Notary Public, State of O  My Commission Expire	hio HDN K2012
April 1 2012	Date Commission Expires

April 1, 2012

