

WW-3B
10/07



1) Date: October 29, 2009
2) Operator's Well No. Hall Drilling, LLC #2
3) API Well No.: 47 085 09669
State County Permit
4) UIC Permit No. _____

STATE OF WEST VIRGINIA
NOTICE OF LIQUID INJECTION OR WASTE DISPOSAL WELL WORK PERMIT APPLICATION
FOR THE DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

5) WELL TYPE: Liquid Injection ☒ / Gas Injection (not storage) _____ / Waste Disposal _____ /
6) LOCATION: Elevation: 1,032 Feet Watershed: Hushers Run
District: Clay County Ritchie Quadrangle Ellenboro 7 1/2'
7) WELL OPERATOR: Hall Drilling, LLC 8) DESIGNATED AGENT Mike Hall
Address P.O Box 249 Address P.O Box 249
Ellenboro, WV 26346 Ellenboro, WV 26346
9) OIL & GAS INSPECTOR TO BE NOTIFIED 10) DRILLING CONTRACTOR
Name David Cowan Name Hall Drilling, LLC
Address Route 1 Box 202 Address P.O Box 249
Harrisville, WV 26362 Ellenboro, WV 26346
11) PROPOSED WELL WORK Drill _____ / Drill deeper _____ / Redrill _____ / Stimulate _____
Plug off old formation _____ / Perforate new formation _____ Convert ☒
Other physical change in well (specify) _____
12) GEOLOGIC TARGET FORMATION Marcellus Depth 6164' Feet (top) to 6250' Feet (bottom)
13) Estimated Depth of Completed Well, (or actual depth of existing well): 6269' Feet
14) Approximate water strata depths: Fresh 75' Feet Salt N/A Feet
15) Approximate coal seam depths: N/A
16) Is coal being mined in the area? Yes _____ No ☒
17) Virgin reservoir pressure in target formation _____ psig Source _____
18) Estimated reservoir fracture pressure _____ psig (BHFP)
19) MAXIMUM PROPOSED INJECTION OPERATIONS: Volume per hour _____ Bottom hole pressure 4931 ps
20) DETAILED IDENTIFICATION OF MATERIALS TO BE INJECTED, INCLUDING ADDITIVES Frac and Production
Fluids, See Attached
21) FILTERS (IF ANY) Fluid Systems, Inc.
22) SPECIFICATIONS FOR CATHODIC PROTECTION AND OTHER CORROSION CONTROL Lined 2 7/8" tubing

23) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL - UP OR SACKS (CU. FT.)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For Drilling	Left In Well		
Conductor									Kinds
Fresh Water	<u>9 5/8"</u>		<u>22#</u>	<input checked="" type="checkbox"/>		<u>130'</u>	<u>130'</u>	<u>CTS</u>	
Coal									Sizes <u>4 1/2"</u> and <u>2 7/8"</u>
Intermediate	<u>7"</u>		<u>16#</u>	<input checked="" type="checkbox"/>		<u>1842'</u>	<u>1842'</u>	<u>CTS</u>	
Production	<u>4 1/2"</u>		<u>11.60#</u>	<input checked="" type="checkbox"/>		<u>6263'</u>	<u>6263'</u>	<u>65 SKS</u>	Depths set
Tubing	<u>2 7/8"</u>	<u>upset</u>	<u>6.5#</u>	<input checked="" type="checkbox"/>		<u>6164'</u>	<u>6164'</u>	<u>On Packer</u>	
Liners									Perforations
									Top Bottom
									<u>6164'</u> <u>6250'</u>

24) APPLICANT'S OPERATING RIGHTS were acquired from Dorothy M. Daugherty et al
by deed _____ / lease ☒ / other contract _____ / dated Aug. 30, 2004 of record in the
Ritchie County Clerk's office in DEED Book 236 Page(s) 633

WW-3A

10/07



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STATE OF WEST VIRGINIA
NOTICE OF LIQUID INJECTION OF WASTE DISPOSAL WELL WORK PERMIT APPLICATION
FOR THE DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS,

5) Surface Owner(S) To Be Served	7) (a) Coal Operator
(a) Name <u>Tech Service Center</u>	Name <u>N/A</u>
Address <u>P.O Box 249</u>	Address _____
<u>Ellenboro, WV 26349</u>	_____
(b) Name _____	7) (b) Coal Owner(S) With Declaration Of Record
Address _____	Name <u>N/A</u>
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>David Cowan</u>	7) (c) Coal Lessee with Declaration Of Record
Address <u>Route 1 Box 202</u>	Name <u>N/A</u>
<u>Harrisville, WV 26362</u>	Address _____
Telephone <u>(304) 628-4016</u>	_____

TO THE PERSONS NAMED ABOVE: You should have received this form and the following documents

- (1) The Application For A Liquid Injection or Waste Disposal Well Work Permit on Form WW-3(B), which sets out the parties involved in the drilling or other work;
- (2) The plat (surveyor's map) showing the well location on Form WW-6; and
- (3) The Construction and Reclamation Plan on Form WW-9 (unless the well work is only to plug a well), which sets out the plan for erosion and sediment control and for reclamation for the site and access road.

The date proposed for the first injection or waste disposal is December 1st 20 09.

THE REASON YOU HAVE RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE REVERSE SIDE OF THE COPY OF THE APPLICATION [(FORM WW-3(B))] DESIGNATED TO YOU. HOWEVER YOU ARE NOT REQUIRED TO TAKE ACTION AT ALL.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a Well Work Permit with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to a well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, the plat, and the Construction and Reclamation Plan have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of the mailing or delivery to the Chief.

The person signing this document shall make the following certification:

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator Hall Drilling, LLC
 Address P.O Box 249
Ellenboro, WV 26346
 By: Michael Hall
 Its: President
 Signature: [Signature]