

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street SE Charleston, WV 25304 (304) 926-0450 (304) 926-0452 fax Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary www.dep.wv.gov

November 20, 2015

WELL WORK PERMIT Secondary Recovery Well

This permit, API Well Number: 47-4303546, issued to HG ENERGY, LLC, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.

Operator's Well No: HAGER HEIRS 175

Farm Name: RANDY & KELLY ROBERTS & B.

API Well Number: 47-4303546

Permit Type: Secondary Recovery Well

Date Issued: 11/20/2015

PERMIT CONDITIONS

West Virginia Code §22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

- 1. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code §22-6-20, which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 2. Pursuant to 35 CSR 4-19.1.a, at the request of the surface owner all water wells or springs within 1000 feet of the proposed well that are actually utilized for human consumption, domestic animals or other general use shall be sampled and analyzed.
- 3. Pursuant to 35 CSR 4-19.1.c, if the operator is unable to sample and analyze any water well or spring with one thousand (1,000) feet of the permitted well location, the Office of Oil and Gas requires the operator to sample, at a minimum, one water well or spring located between one thousand (1,000) feet and two thousand (2,000) feet of the permitted well location.
- 4. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
- 5. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
- 6. During the surface casing and cementing process, in the event cement does not return to the surface, or any other casing string that is permitted to circulate cement to the surface and does not return to the surface, the oil and gas inspector shall be notified within twenty-four (24) hours
- 7. Well work activities shall not constitute a hazard to the safety of persons.
- 8. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced, drilling ceased, completion of any other permitted well work and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

FORM WW-3 (B) 1/12

5) WELL TYPE:

Liquid Injection



V /

1)	Date:	09/30/201	15						
2)	Operato	r's Well N	's Well No.		ger Heirs 175				
3)	API We	ll No.:	47	-	Lincoln	-	S		
			State	7	County			Permit	
4)	UIC Per	mit No.	UIC2	R043	801AP				

Waste Disposal

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

Gas Injection (not storage) /

6) LOCATION:	Elevat	tion: 938'			W	atershed:	Straight Fork				
District: Duval					Co	unty Lincoln		Quadra	ngle Griffithsville 7.5'		
7) WELL OPERATOR: HG Energy, LLC						8) DESIGNATED AGENT Diane White					
Address 5260 Dupont Road Parkersburg, WV 26101						Address 5260 Dupont Road					
									sburg, WV 26101		
9) OIL & GAS INSPECTOR TO BE NOTIFIED						10) DRILLIN	NG CONTE	-			
	Triplett								proval of Permit		
	McClellan	Hwy				Address					
	hland, WV								10		
	TARGET ppth of Co water str coal sear mined in oir presso ervoir fra PROPOS IDENTIF les and ott	FORMA completed Verta depths: the area? are in targe acture press SED INJECTION her chemica Cartridge file	TION Be Well, (or a second sec	old form ohysical actual de esh 318 on 1250 PERAT TERIAL ed to main	change in septh of exists No psi CIONS: V LS TO BE I intain water of filters	/ Performel / Perf	2418' 8/3 Salt 1 Estimated ir 25 BBL CLUDING ve oil recover	Feet (top Feet 1168' Bottom ADDITIVE	/ Stimulate / Convert Do to 2433' Feet (bottom) Feet		
23) CASING AND	TIDDIC	DDOCDA	V.C								
CASING OR TUBING TYPE	Size	Grade	Weight per ft.	New	Used	FOOTAGE IN For Drilling	Left In Well	CEMENT FILL -UP OR SACKS (CU. FT.)	PACKERS RPT 10 27 15		
Conductor									Kinds		
Fresh Water	7"	LS	17#	×		468'	468'	CTS			
Coal									Sizes		
Intermediate									2.375" x 4.5"		
Production	4 1/2"	J-55	10.5#	х		2533'	2533'	150 sks	Depths set		
Tubing	2 3/8"	J-55	4.6#	×		2218'	2218'		2700'		
Liners									Perforations		
									Top Bottom		
									ECEIVED Gas		
24) APPLICANT	'S OPER	ATING R	IGHTS v	vere aco	uired from	Hager Heirs		1	Oil and Gas		
		lease x		other co			-09/17/2015	PORTO	ECEIVED Gas e1968 of record in the		
Lincoln			ounty Cl			ase	-	Book 42	2 A PAGE 77		
								377 Table 1	NOV 0 4 Page 77 NOV Department of ronmehida20/2075		

FORM WW-3 (A) 1/12



2) Operator's Well	No.	Hager	Heirs 175		
3) API Well No.:	47	-		Jul .	
	State		County	_	Permit

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 Ov (a) Name Address	Randy & Kelly Roberts	(a) Coal Op Name Address	erator NA			
Address	Yawkey, WV 25573	Addiess	-			
(b) Name		(h) Coal Ou	mer(S) With I	Declaration Of Rec	ord	
Address		Name	NA NA	occimination of Rec	ord	
ridaress		Address				
(c) Name		Name	-			
Address		Address				
6) Inspector		(c) Coal Les	ssee with Decl	aration Of Record	1	
Address		Name NA				
		Address				
Telephone	304-389-0350					
(3) The Cons	(surveyor's map) showing the well location on F struction and Reclamation Plan on Form WW-9 crosion and sediment control and for reclamation	(unless the	well work is), which se	s out the
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WV Department of Environment 2072015

WW-2B	1
(5-12)	

Well	No.	Hager	Heirs	175
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West Virginia Department of Environmental Protection Office of Oil and Gas

NOTICE TO SURFACE OWNERS

The well operator named below is preparing to file for a permit from the state to drill a new well. Before a well work permit can be filed with the Chief of the Office of Oil and Gas, the well operator is required to have given notice of the right to request water well or spring analytical testing. This notice shall be given to the owners or occupants of land which have a water well or spring being utilized for human consumption, domestic animals, or other general use and which is located within 1000 feet of the proposed well site.

With this form, the operator is giving you notice of your right to request analytical testing. The operator is required to sample and analyze the water wells or springs of all owners or occupants who request it. Therefore, if you wish to have your water well or spring tested, contact the operator named below.

All sampling shall be completed prior to drilling. Within thirty (30) days of the receipt of such sample analyses the operator shall submit the results to the Chief of the Office of Oil and Gas and to the owners or occupants who may have requested them.

Be advised, you have the right to sample and analyze any water supply at your own expense.

Listed below is the laboratory chosen by operator to perform analysis, and contactor chosen to collect sample.

Certified Laboratory Name
Sampling Contractor
Sturm Environmental Lab
Sturm Environmental Lab

Well Operator HG Energy, LLC
Address 5260 Dupont Road

Parkersburg, WV 26101

Parkersburg, WV 2610

Telephone 304-420-1119

FOR OPERATOR'S USE ONLY: Below, or on an attached page, list those persons which were given this notice. Place an asterisk beside the one(s) that contacted you and requested sampling and analyses. If there were no requests made, indicate by underling which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site, the Chief may require the operator to test wells up to 2000 feet from the proposed site.

- See Attached Sheet -

RECEIVED
Office of Oil and Gas
NOV 0 4 2015

WV Department of Environmental Procession

Hager Heirs 175

West Virginia Department of Environmental Protection Office of Oil and Gas

NOTICE TO SURFACE OWNERS

The well operator named below is preparing to file for a permit from the state to drill a new well. Before a well work permit can be filed with the Chief of the Office of Oil and Gas, the well operator is required to have given notice of the right to request water well or spring analytical testing. This notice shall be given to the owners or occupants of land which have a water well or spring being utilized for human consumption, domestic animals, or other general use and which is located within 1000 feet of the proposed well site.

FOR OPERATOR'S USE ONLY: Below, or on an attached page, list those persons which were given this notice. Place an asterisk beside the one(s) that contacted you and requested sampling and analyses. If there were no requests made, indicate by underlining which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site please indicate such.

Surface Owners Identified With Water Sources to be Sampled and Tested:

- Randy & Kelly Roberts 4597 Straight Fork Yawkey, WV 25573
- Emmitt Life Breedlove 4689 Straight Fork Yawkey, WV 25573
- Brenda Fisher & Judy Thompson 71 Ranger Lane Charleston, WV 25309
- Deveta Wade 4633 Straight Fork Yawkey, WV 25573

RECEIVED Office of Oil and Gas

NOV 0 4 2015

WV Department of Environmenta Operation

WW-9 Rev. 5/10

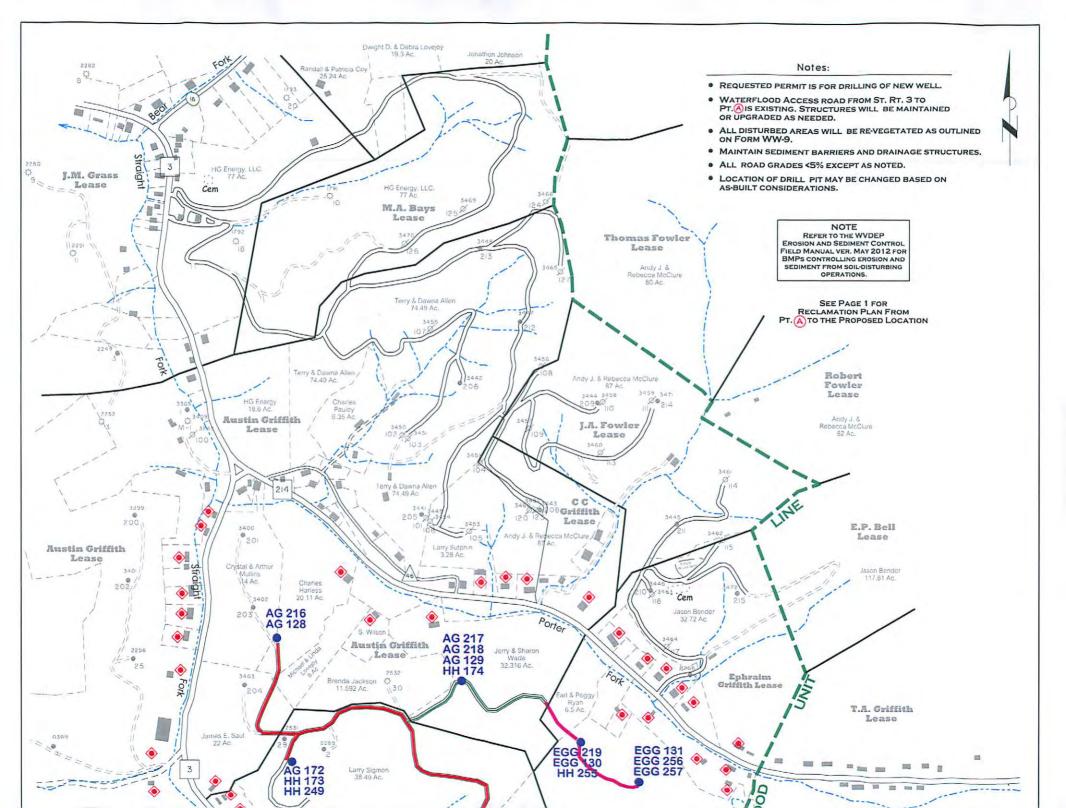
Page	77 of
API Number 47 -	17.
Operator's Well No. Hage	er Heirs 175

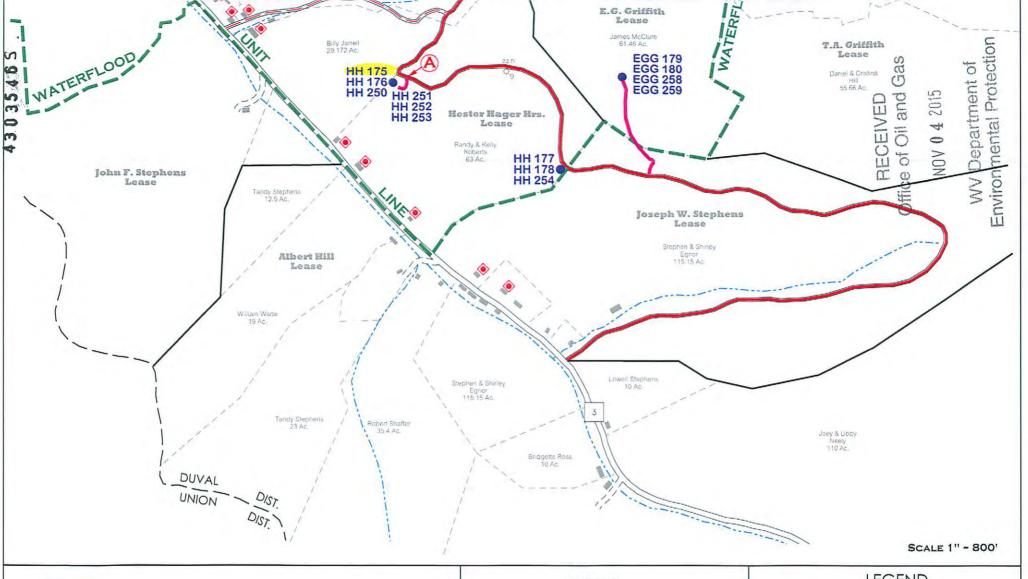
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name HG Energy, LLC		OP Code 4944979	48			
Watershed_Straight Fork	Qua	Quadrangle Griffithsville 7.5'				
Elevation 938'	County_Lincoln	District_Duval				
Description of anticipated Pit Waste:	Fluids encountered while drilling	subject well				
Do you anticipate using more than 5,00	00 bbls of water to complete the	proposed well work? Yes	No x			
Will a synthetic liner be used in the pit						
Proposed Disposal Method For Treated Land Applic	l Pit Wastes:					
		er)			
)			
	posal (Supply form WW-9 for d					
Other (Expl	ain					
Drilling medium anticipated for this wa -If oil based, what type? Synt		c. Air, Fresh Water				
Additives to be used? Water, soap, KC						
Will closed loop system be used ? No						
	ify what medium will be used? (etc.Leave in pit Cement, lime, sawdust_Native so				
on August 1, 2005, by the Office of Oi provisions of the permit are enforceablaw or regulation can lead to enforcement of Law or regulation can lead to enforcement of Law or regulation form and all attachments obtaining the information, I believe the penalties for submitting false information.	I and Gas of the West Virginia Dele by law. Violations of any tendent action. I we that I have personally examination thereto and that, based on my hat the information is true, accordingly.	rm or condition of the general part and am familiar with the in a inquiry of those individuals arate, and complete. I am away	tection. I understand that ermit and/or other application information submitted on immediately responsible are that there are significant			
Company Official Signature Du	are while					
Company Official (Typed Name) Dia	ne White					
Company Official Title Agent						
			RECEIVED			
Subscribed and sworn before me this_	30th day of September	STA S.	OFFICIAL SEAL NOTARY PUBLIC TE OFFIVEST VINCINIA DIANNE DULANEY 5260 Dupont Road			
- Manue	sparony	My Com	Mission Expires Oct. 4, 2016			

t.	ECEND
Property Boundary	Diversion Leader Land Land Land Land
Road = = = = = = = = = = = = = = = = = = =	Spring -
Existing Fence — X — X — X —	Wet Spot
Planned Fence / / /	Drain Pipe with size in inches ②
Stream	Waterway \longleftrightarrow \longleftrightarrow \longleftrightarrow
Open Ditch	Cross Drain ////////////////////////////////////
Rock 65666	Artificial Filter Strip
North N	Pit: cut walls
Buildings	Pit: compacted fill walls
Water wells	Area for Land Application of Pit Waste
Drīll site	
Proposed Revegetation Treatment: Acres Disturbed 1.1 ac	Prevegetation pH
Lime3 Tons/acre or to correct to pH _	6.5
500	
Fertilizer (10-20-20 or equivalent)los/ac	cre (500 lbs minimum)
Mulch Straw 2 Tons/acr	e ·
GJ.	Sintra
Seed P	Mixtures
Area I	Area II
Seed Type lbs/acre	Seed Type lbs/acre
Tall Fescue 40	Tall Fescue 40
Ladino Clover 5	Ladino Clover 5
Sediment Control To Be In Place At All T	imes
L. 1	
Attach: Drawing(s) of road, location, pit and proposed area for land applic	ation.
Photocopied section of involved 7.5' topographic sheet.	
Plan Approved by: Rappl D. Trup (1)	
That reproved by.	
Comments:	
	RECEIVED
0.0	Office of Oil and Gas
Title: District Suspector	Date: October 27, 20/5, 0 4 2015
Lincoln	NOT V
Field Reviewed? () Yes () № WV Department of
	Environmental Pratection5
	 -







GRIIFTHSVILLE WATERFLOOD

Lincoln County, W.Va.

RECLAMATION PLAN SHOWING ROAD SYSTEMS TO BE USED FOR 2015-16 **DRILLING PROGRAM** (SOUTH)

PAGE 2

NOTES

- 1. REFER TO THE WVDEP EROSION AND SEDIMENTATION CONTROL MANUAL (VER. MAY 20, 2013) FOR BMP'S CONTROLLING **EROSION AND SEDIMENTATION FROM ALL** SOIL-DISTURBING OPERATIONS.
- 2. SEE PAGE ONE OF RECLAMATION PLAN FOR DETAILS OF NEW ROAD CONSTRUCTION AND ROAD UPGRADES FROM POINT A TO DRILL SITE LOCATION.
- 3. EXISTING WATERFLOOD ACCESS ROADS WILL BE MAINTAINED IN PRESENT CONDITION. THESE ROADS WERE CONSTRUCTED UNDER CONDITIONS SET FORTH IN VARIOUS DRILLING PERMITS ISSUED BY WVDEP-OOG PRIOR TO 2015 (AS SHOWN). SEE PERMITS ON FILE FOR MORE DETAIL.

LEGEND

EXISTING WATERFLOOD ROADS TO BE USED.

OTHER EXISTING MAIN WATERFLOOD ROADS (POSSIBLE ACCESS).

EXISTING LEASE OR FARM ROADS TO BE UPGRADED.

NEW ROADS TO BE CONSTRUCTED.

AG 172 LOCATION FOR PROPOSED WELLS

> POTENTIAL WATER SUPPLY SOURCE TO BE SAMPLED (LOC. APPROX.)

SEPTEMBER 16, 2015

