

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

January 08, 2015

WELL WORK PERMIT Secondary Recovery Well

This permit, API Well Number: 47-8704754, 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.

James Martin

Chief

Operator's Well No: CB FERRELL 110 Farm Name: MAY, TIMOTHY D.

API Well Number: 47-8704754

Permit Type: Secondary Recovery Well

Date Issued: 01/08/2015

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.
- 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 on this 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



1)	Date:	11/05/2014							
2)	Operator	Operator's Well No.			Ferrell 110				
3)	API Wel	l No.:	47	-	Roane		s		
			State		County			Permit	
4)	UIC Perr	nit No.	TIICO	P027	DAND				

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

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	Distric				Co	unty Roan			igle Looneyville 7,5'
7) WELL OPERA						8) DESIGNA	ATED AGE	NT Diane \	Vhite
Add		260 Dupont					Addres	-	upont Road
40,440,000,000		arkersburg,							sburg, WV 26101
9) OIL & GAS IN		OR TO BE	NOTIFI	ED		10) DRILLII			
Name Ed Ga						the state of the s	Be Determin	ned Upon App	roval of Permit
Die I de l'Alle Present	3ox 821					Address			
Spenc	er, WV 252	276				_			
11) PROPOSED	WELL W		Drill Plug off o Other p				/ Recorate new for		/ Stimulate Convert
12) GEOLOGIC			TION	Big Injun		Depth		Feet (top) to 2135 Feet (bottom)
13) Estimated De							25' TVD 2795	TMD Feet	
14) Approximate			Fre	esh 3	90	Feet	Salt	1625	Feet
15) Approximate			NA						
16) Is coal being					No	X			
17) Virgin reserve				on 125	o psi	g Source	Estimate	d	
18) Estimated res	ervoir fra	cture press	nre	2650					
									psig (BHFP)
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19) MAXIMUM 20) DETAILED I Fresh water, pro 21) PILTERS (IF 22) SPECIFICAT 23) CASING AND CASING OR TURNO TYPE Conductor Fresh Water Coal Intermediate Production	PROPOS DENTIFI duced wate ANY) _ TIONS FO TUBING Size 7" 4 1/2"	ED INJEC ICATION er, bactericle Cartridge fil OR CATHO PROGRAM SPE Grade LS ST&C J-55	TION O OF MAT des, and o lters and/o DDIC PR COPICATI Weight per ft. 17#	PERAT FERIAL Sther cher or coal be COTECT ONS New	S TO BE I nicals as nee d filters TON AND	NJECTED, IN eded to maintain OTHER COR FOOTAGE II For Drilling 505'	ROSION CONTERVALS Left In Well 505'	ADDITIVE / and improve CONTROL CEMENT FILL -UP OR SACKS (CU. FT.) CTS	PACKERS Kinds Sizes 2.375" x 4.5" Depths set
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19) MAXIMUM 20) DETAILED I Fresh water, pro 21) PILTERS (IF 22) SPECIFICAT 23) CASING AND CASING OR TURNO TYPE Conductor Fresh Water Coal Intermediate Production Tubing	PROPOS DENTIFI duced wate ANY) _ TIONS FO TUBING Size 7" 4 1/2"	ED INJEC ICATION er, bactericle Cartridge fil OR CATHO PROGRAM SPE Grade LS ST&C J-55	TION O OF MAT des, and o lters and/o DDIC PR COPICATI Weight per ft. 17#	PERAT FERIAL Sther cher or coal be COTECT ONS New	S TO BE I nicals as nee d filters TON AND	NJECTED, IN eded to maintain OTHER COR FOOTAGE II For Drilling 505'	ROSION CONTERVALS Left In Well 505'	ADDITIVE / and improve CONTROL CEMENT FILL -UP OR SACKS (CU. FT.) CTS	PACKERS FACKERS Sizes 2.375" x 4.5" Depths set 2450' Perforations
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Received Office of Oil & Gas FORM WW-3 (A) 1/12

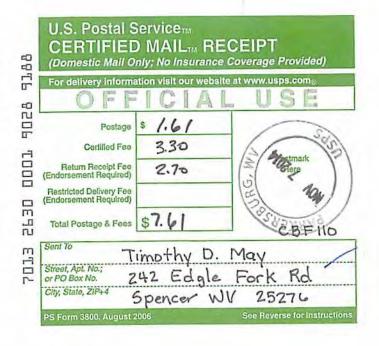


1) Date:	Novemb	ber 5, 2014					
2) Operato	No.	CB F	errell 110				
3) API We	Il No.:	47	7.0		33.		
		State		County		Permit	
4) UIC Pen	mit No.	UIC2	R08704	1AP			

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 Ow	ner(S) To Be Served 7) (a	a) Coal Operator	
(a) Name	CATCHER TO THE PROPERTY OF THE	lame	
Address	242 Edgle Fork Road	ddress	
	Spencer, WV 25276		
(b) Name	Reva Snodgrass / 7) (b) Coal Owner(S) With D	Declaration Of Record
Address	3740 Tranquility Drive	lame	
	Melbourne, FL 32934	ddress	
(c) Name		Jame	
Address	A	ddress	
6) Inspector	Ed Gainer 7) (c	c) Coal Lessee with Decl	aration Of Record
Address	P. O. Box 821	lame	
	Spencer, WV 25276	ddress	
Telephone	304-389-7582		
THE REASON APPLICATION THE APPLICA ACTION AT A Take notice the Notice and Ap West Virginia Application an	at under Chapter 22-6 of the West Virginia Code plication and accompanying documents for a W Department of Environmental Protection, with d depicted on the attached Form WW-6. Copie	ENTS IS THAT YOU STRUCTIONS" ON THIS O YOU. HOWEVER YOU, the undersigned well of Yell Work Permit with the respect to a well at the softhis Notice, the App	E REVERSE SIDE OF THE COPY OF OU ARE NOT REQUIRED TO TAKE perator proposes to file or has filed this the Chief of the Office of Oil and Gas, the location described on the attached dication, the plat, and the Construction
	on Plan have been mailed by registered or certif in certain circumstances) on or before the day of	the mailing or delivery to	o the Chief.
	The person signing this document s	hall make the followin	g certification:
"I certify under	r penalty of law that I have personally examined	and Well Operator	HG Energy, LLC
	th the information submitted in this document an		5260 Dupont Road
	d that, based on my inquiry of those individuals	The state of the s	Parkersburg, WV 26101
immediately re	sponsible for obtaining the information, I believe	that By:	Diane White
the information	is true, accurate and complete. I am aware that	there Its:	Agent
	penalties for submitting false information, includ of fine and imprisonment.	ing Signature:	Diane White
Mino of O			

Office of Oil & Gas



93,95	U.S. Postal Service TM CERTIFIED MAIL TM RECEIPT (Domestic Mail Only; No Insurance Coverage Provided)
2630 0001 9028 91	Postage \$ 1.61 Postage \$ 1.61 Return Receipt Fee (Endorsement Required) Restricted Delivery Fee (Endorsement Required) Total Postage & Fees \$ 7.61 CBF 110
7013	Street, Apt. No.; 3740 Tranquility Drive City, State, ZIP+4 Melbourne FL 32934 PS Form 3800, August 2006 See Reverse for Instructions

Received Office of Oil & Gas NOV 1 3 2014 WW-2B1 (5-12)

Well No. C. B. Ferrell 110

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

Sturm Environmental Services

Sampling Contractor

Sturm Environmental Services

Well Operator HG Energy, LLC

Address

5260 Dupont Road

Parkersburg, WV 26101

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.

· Timothy May 242 Edgle Fork Road

Spencer WV 25276 · Holly Cottrell Holly Cottrell 89 Edgle Fork Road

Spencer WV 25276

· Willie King P.O. Box 645 Spencer WV 25276

· Reva Snodgrass 3740 Tranquility Drive

RECEIVEMelbourne FL 32934 Office of Oil and Gas

DEC 23 2014

WW-9 Rev. 5/10

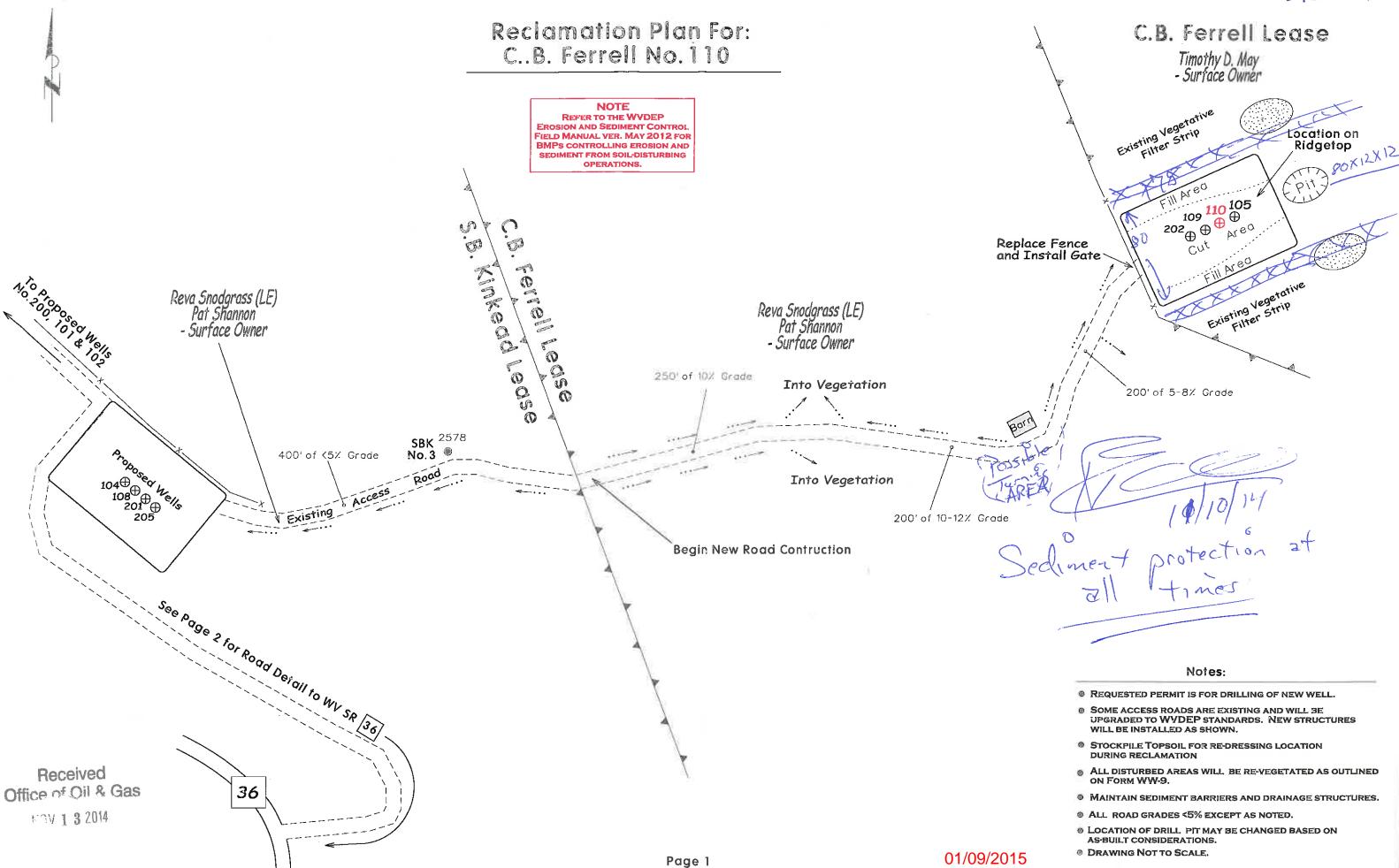
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API Number 47		54.		
Operator's Well N	No. CB F	errell 110		

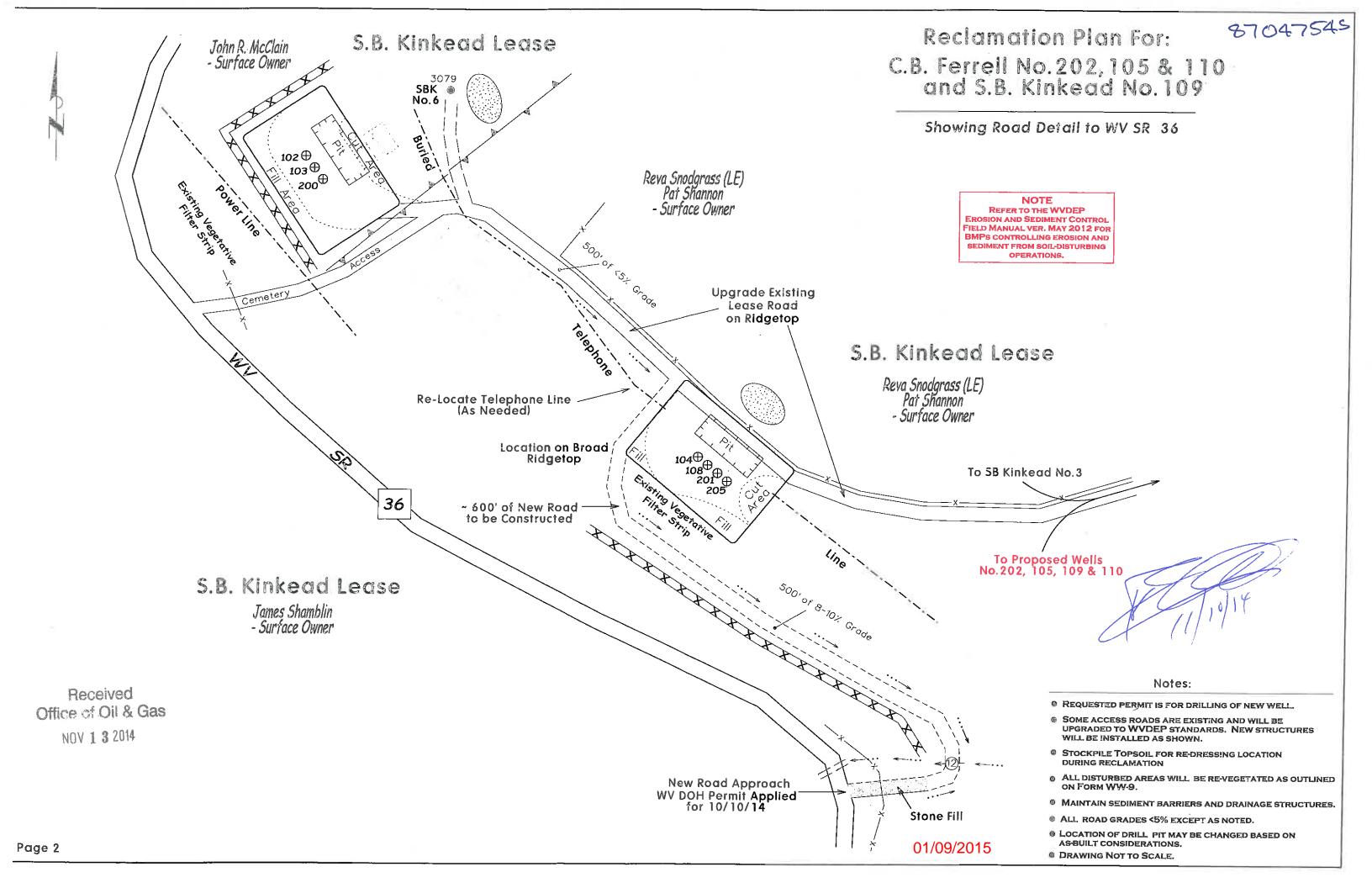
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

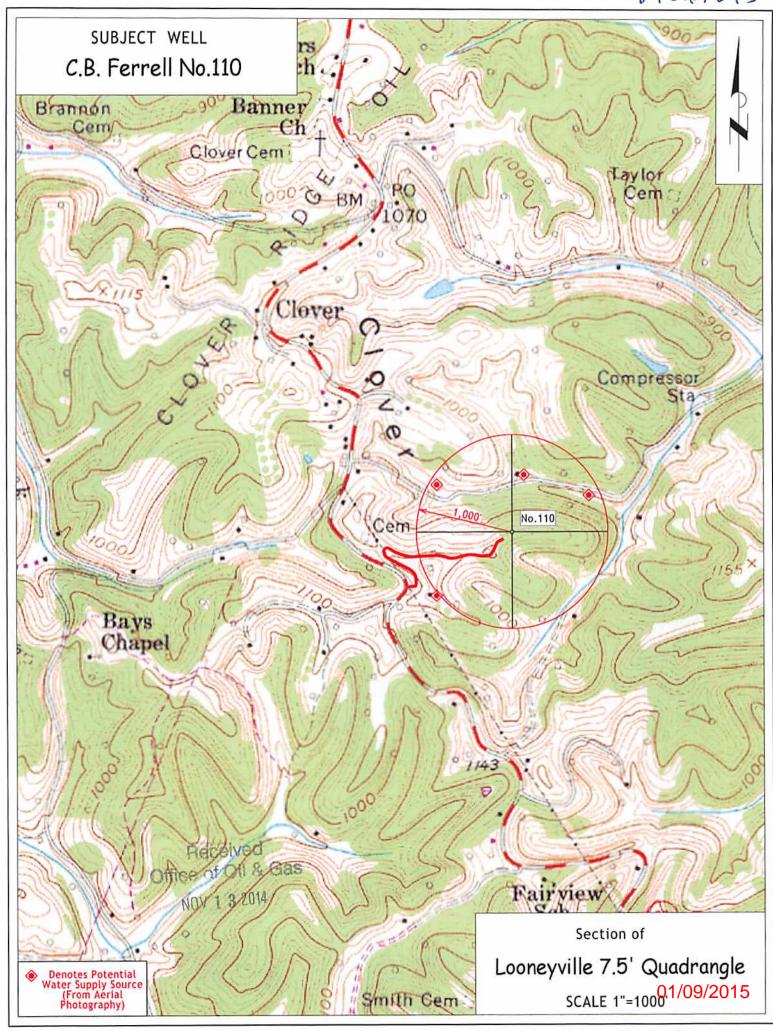
CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

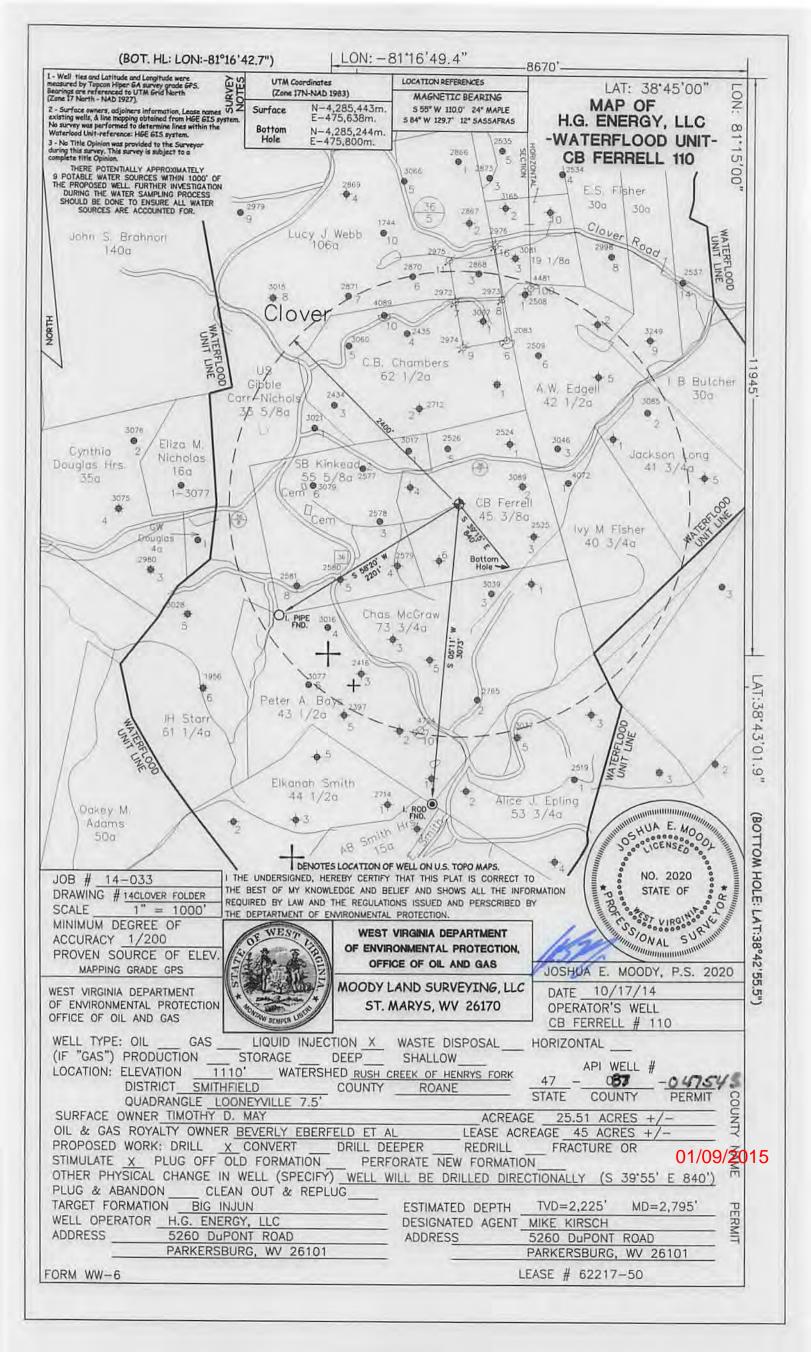
Operator Name HG Energy, LLC	OP Code 494497948				
Watershed Rush Creek of Henrys Fork	Quadrangle Looneyville 7.5' 444				
Elevation1110' County_Roane	District Smithfield 5				
Description of anticipated Pit Waste: Fluids encountered whil	e drilling subject well				
Do you anticipate using more than 5,000 bbls of water to comp	lete the proposed well work? Yes No X				
Will a synthetic liner be used in the pit? Yes					
Proposed Disposal Method For Treated Pit Wastes: X Land Application X Underground Injection (UIC Permi Reuse (at API Number Off Site Disposal (Supply form WW Other (Explain					
Drilling medium anticipated for this well? Air, freshwater, oil I -If oil based, what type? Synthetic, petroleum, etc. N. Additives to be used? Water, Soap, KCI					
Will closed loop system be used? No					
-11 left in the and plan to southly what inclinin will be					
-Landfill or offsite name/permit number?	used? Cement, Iime, sawdust_Native soil, cement, lime				
I certify that I understand and agree to the terms and on August 1, 2005, by the Office of Oil and Gas of the West Viprovisions of the permit are enforceable by law. Violations of law or regulation can lead to enforcement action. I certify under penalty of law that I have personally application form and all attachments thereto and that, base obtaining the information, I believe that the information is to penalties for submitting false information, including the possibility.	conditions of the GENERAL WATER POLLUTION PERMIT is irginia Department of Environmental Protection. I understand that f any term or condition of the general permit and/or other applies a examined and am familiar with the information submitted on d on my inquiry of those individuals immediately responsible true, accurate, and complete. I am aware that there are significantly of fine or imprisonment.				
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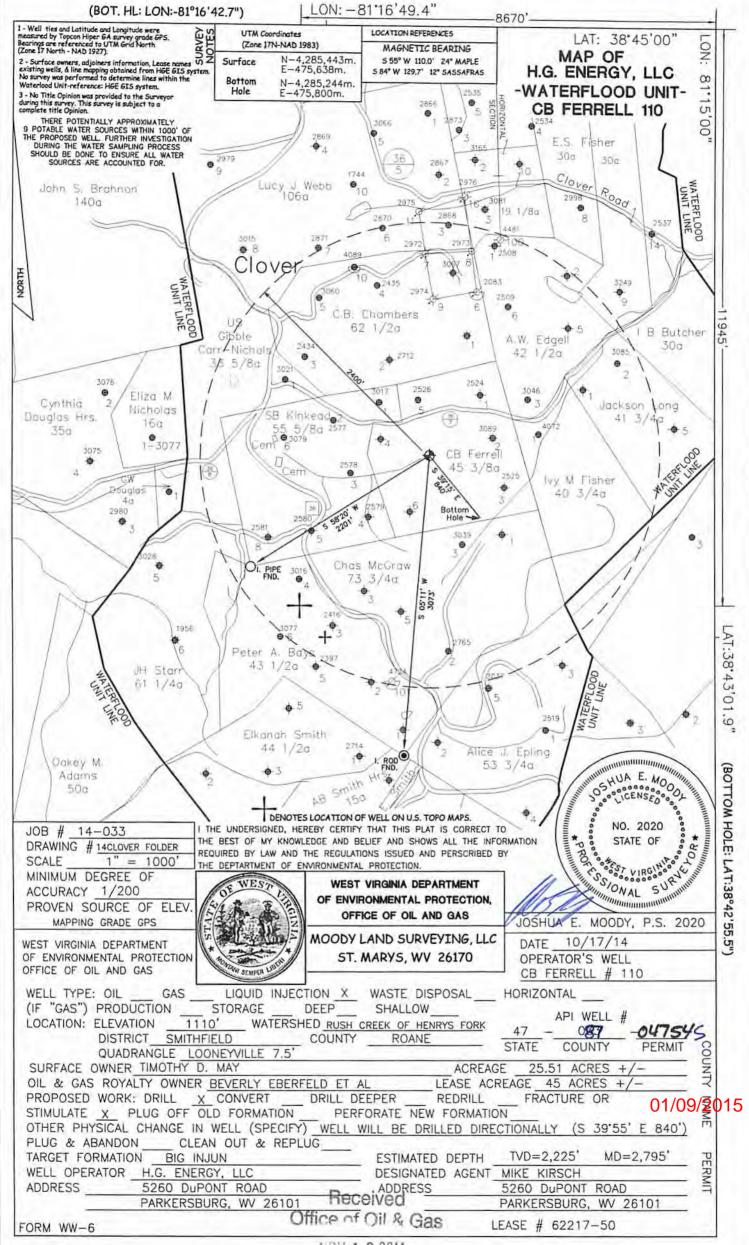
	1	ECEND			
Property Boundary		Diversion (1/21/11/11/11/11/11/11/11/11/11/11/11/11			
Rond = = = = = = = = =		Spring -			
Existing Fence — \times — \times — \times —		Wet Spot Drain Pipe with size in inches @			
Planned Fence / / /					
Stream		Waterway ← ← ← ←			
Open Ditch		Cross Drain 77777	7//////////////////////////////////////		
Rock #35555		Artificial Filter Strip			
North N		Pit: cut walls			
Buildings		Pit: compacted fill walls	Willey Comments		
Water wells W		Area for Land Application of Pit	Waste		
Drill site		(FE			
Proposed Revegetation Treatment: Acres Disturbed	2.2	Prevegetation pH			
Lime 3Tons/acre or to corre	ect to pH				
Fertilizer (10-20-20 or equivalent) 500					
	IDS/2	nere (500 lbs minimum)			
Mulch straw 2	Tons/ac	re			
	Seed	Mixtures			
Area I		Area			
Seed Type Ibs/acre		Seed Type	lbs/acre		
Tall Fescue 40	_	Tall Fescue	40		
Ladino Clover 5	_	Ladino Clover	5		
Sediment protection at all times					
Attach: Drawing(s) of road, location,pit and proposed area for	land appli	cation.			
Photocopied section of involved 7.5' topographic shee	t.				
AL C					
Plan Approved by:		\supset			
Comments:					
5- A-4- A-4- S					
Title: Inspector		In land			
	_	Date:			
Field Reviewed? (Roane Yes	(_) No			













HG Energy, LLC 5260 Dupont Road Parkersburg, WV 26101 (304) 420-1100 - Office (304) 863-3172 - Fax

Received Office of Oil & Gas NOV 1 3 2014

November 6, 2014

Mr. Jeff McLaughlin WVDEP Division of Oil & Gas 601 57th Street Charleston, West Virginia 25304

RE: C. B. Ferrell No. 110

Smithfield District, Roane County

West Virginia

Dear Mr. McLaughlin:

Enclosed are Forms WW-3A, WW-3B, WW-9, WW-3(B1), mylar of plat, reclamation plan, topo map and copies of the certified mailing receipts for a permit to drill the above referenced injection well. Also enclosed is our check in the amount of \$650.00 to cover the associated permit fees.

Very truly yours,

Diane White

Diane C. White

Enclosures

ce: Timothy D. May - Certified

Reva Snodgrass - Certified Ed Gainer – Inspector