

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 07, 2015

WELL WORK PERMIT

Vertical Well

This permit, API Well Number: 47-8704752, 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 202

Farm Name: MAY, TIMOTHY D.

API Well Number: 47-8704752 Permit Type: Vertical Well

Date Issued: 01/07/2015

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. <u>Failure to adhere to the specified permit conditions may result in enforcement action.</u>

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.

WW - 2B (Rev. 8/10)

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WELL WORK PERMIT APPLICATION

DEPART	WELL WORK PER	MIT APPLIC	ATION 57	5	444
	UC Energy II C	494497948	Roane	Smithfield	Looneyville 7.5'
) Well Operator.	HG Energy, LLC	Operator ID	County	District	Quadrangle
2) Operator's Well	Number: C. B. Ferrell 202		3) Elevation:	1110'	2.
I) Well Type: (a) (Oil X or Gas X				
(b) I	f Gas: Production / / Unde	erground Sto	orage	-	
	Deep/ Sh	nallow X			
r\ Duanasad Tara	Big Injun		Proposed Ta	rget Depth:	2225 TVD
CI Dropocod Inta	I Denill. ZZZO (CZ	ormation at	Proposed Tot	al Depth: _t	sig mjun
7) Approximate fr	esh water strata depths				
8) Approximate sa	alt water depths: 1625'				
9) Approximate c	oal seam depths: NA				4
10) Approximate	void depths,(coal, Karst, other):	NA			
			No		
11) Does land co	ntain coal seams tributary to acti		7 7 Sw. 1		1 18
12) Describe prop	osed well work and fracturing meth	ods in detail.	(attach addition	nal sheets if r	leeded)
Drill and stimulat	osed well work and fracturing meth te production well in the Big Injur	Sti.	nulation	e (1) he	small
Dilli and stimula	lic fracture				
Mydre	IIC TIBELLY.				
1112	CASING AND TUI	PING PROG	RAM		
121/11	CASING AND TO	DINO I RE		0	ALLIT

CEMENT INTERVALS **FOOTAGE** TYPE IN SPECIFICATIONS Fill -up (Cu. Ft.) Left in Well For Drilling Grade Weight per ft Size Conductor CTS 505' 505' 17# LS 7" Fresh Water Coal Intermediate 200 sks 2190' 2190' 10.5# 4 1/2" J-55 Production Tubing Liners

Packers:	Kind:	Received
1 40,0,0	Sizes:	Office of Oil & Gas
	Depths Set	OCT 31 2014 01/09/2015

WW-2	2A
(Rev.	6-14)

Received Office of Oil & Gas 1). Date:

October 21, 2014

OCT 3 1 2014

2.) Operator's Well Number State

C. B. Ferrell 202 County

Roane

Permit

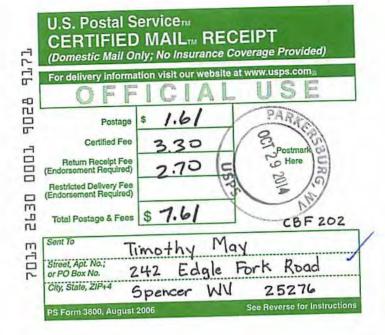
3.) API Well No .:

47-

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE AND APPLICATION FOR A WELL WORK PERMIT

) Sunace Ow	ner(s) to be served:	5) (a) Coal Operator
(a) Name	Reva Snodgrass	Name
Address	3740 Tranquility Drive	Address
7,00,00	Melbourne, FL 32934	
(b) Name	Timothy D. May	(b) Coal Owner(s) with Declaration
Address	242 Edgle Fork Road	Name
Address	Spencer, WV 25276	Address
(c) Name		Name
Address		Address
6) Inspector	Ed Gainer	(c) Coal Lessee with Declaration
Address	P.O. Box 821	Name
7 Iddi boo	Spencer, WV 25276	Address
Telephone	304-389-7582	
	TO THE DEDCOME NA	MED ABOVE TAKE NOTICE THAT:
Included in t	ha lease or leases or other continuing	contract or contracts by which I hold the right to extract oil and gas
OR	he information required by Chanter 2	2, Article 6, Section 8(d) of the Code of West Virginia (see page 2)
included is t	ne information required by Chapter 2.	
	Objection 22 G	of the West Virginia Code I have served copies of this notice and
	Chapter (1) 6	of the Migel Virning Line I have believed dopied of the
	that as required under Chapter 22-b	ents pages 1 through on the above named parties by:
The second secon	that as required under Chapter 22-b cation plat, and accompanying docum Personal Service (Affidavit atta	ents pages 1 through on the above named parties by:
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The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov 01/09/2015



93P		erviceTM MAILTM RECEIPT By; No Insurance Coverage Provided)
11	For delivery informat	ion visit our website at www.usps.com
-0	OFF	ICIAL USE
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0000	Return Receipt Fee (Endorsement Required)	2.70 G Postmark
	Restricted Delivery Fee (Endorsement Required)	13 20 A
263	Total Postage & Fees	\$ 7.61 CBF202
13	Sent To Revi	a Snodgrass
707	Cleant Ant No :	O Tranquility Drive
	City, State, ZIP+4 Me	lbourne, FL 32934
	PS Form 3800, August 20	06 See Reverse for Instructions

Received Office of Oil & Gas 0CT 3 1 2014 WW-2A1 (Rev. 1/11)

Operator's	Well	Number	C. B	. Ferrell	202

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6, Section 8(d) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
Charles B. Ferrell et al	South Penn Oil Company	1/8	16/440

⁻ See attached sheet for additional information -

Acknowledgement of Possible Permitting/Approval In Addition to the Office of Oil and Gas

The permit applicant for the proposed well work addressed in this application he reby a cknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources
- WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

Received
Office of Oil & Gas
OCT 3 1 2014

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be ac quired from the appropriate authority before the affected activity is

initiated.

	Diane White	
Well Operator:	HG Energy, LLC	
By:Its:	Diane White, Agent	

ww-	2A1
(Rev	1/11)

Operator's Well No.	CB Ferrell 202	
Operator 5 to the core		

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Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
Charles B. Ferrell et al	South Penn Oil Company	1/8	16/440

Merger and Conveyance dated July 3, 1963, from South Penn Oil Company to Penzoil Company, Kanawha County, Book 153, Page 35,

Assignment, Conveyance and Bill of Sale dated December 28, 1998, from Pennzoil Company to Pennz Energy Exploration and Production, Wetzel County, Book 12, Page 177.

Certificate of Merger filed with the WV Secretary of State, December 31, 1999, whereby Pennz Energy Exploration and Production, successor in interest to; to Penzoil Company, merged with Devon Energy Production Company, LP, Wetzel County, Book 12, Page 278.

Deed, Assignment and Bill of Sale dated June 1, 2000, from Devon Energy Production Company, LP to East Resources, Inc., recorded in Wetzel County, Book 370, Page 580.

Assignment, Conveyance and Bill of Sale, dated January 1, 2011, from East Resources, Inc., to HG Energy, LLC, Wetzel County, Book 118A, Page 253.

Upon information and belief, Operator's lease and/or other real property rights permit it to conduct drillingerations for the subject well in the location shown on the plat, including the use of access roads, pipelines and utilities.

Acknowledgement of Possible Permitting/Approval In Addition to the Office of Oil and Gas

The permit applicant for the proposed well work addressed in this application hereby ackowledges the possibility of the need for permits and/or approvals from local, state or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

WV Division of Water and Waste Management WV Division of Natural Resources WV Division of Highways U.S. Army Corps of Engineers US Fish and Wildlife Service County Floodplain Coordinator Office of Oil & Gas

OCT 3 1 2014

Well Operator:	HG Energy, LLC	
By:	Diane C. White	Diane White 01/09/2015
Its:	Accountant	01/03/2013

WW-2B1	
(5-12)	

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 Services

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. Office of Oil and Gas

Timothy May

242 Edgle Fork Road

Spencer WV 25276

Timothy May

P.O. Box 645

Spencer WV

Spencer WV 25276

+ Holly Cottrell 89 Edgle Fork Road Spencer WV 25276

· Reva Snodgrass 3740 Tranquility Drive Melbourne FL 32934

WV Department of Environmental Protection

WW-9)
(5/13)	

Pa	age of
API Number 47 -	
Operator's Well No.	C. B. Ferrell 202

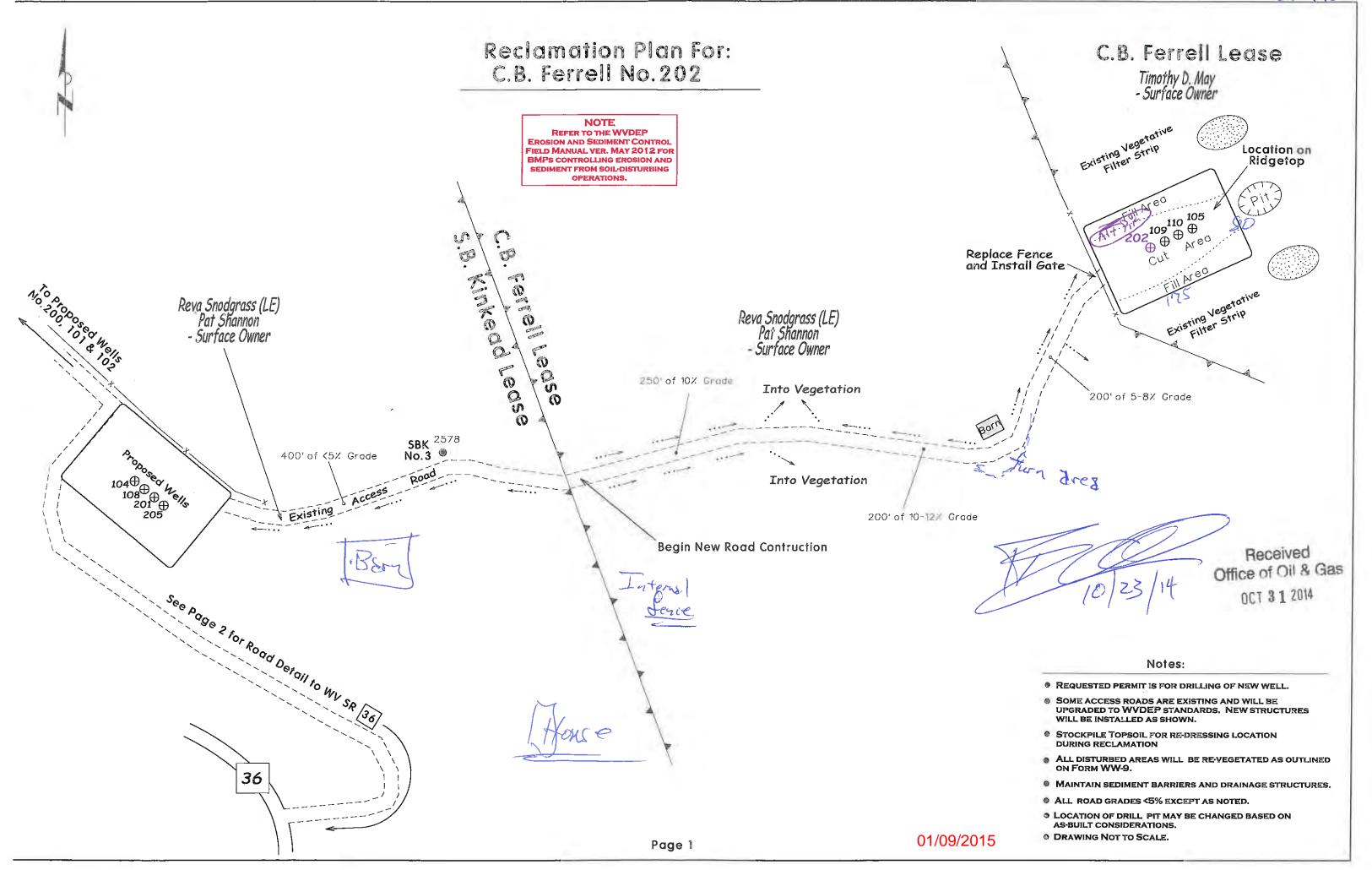
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

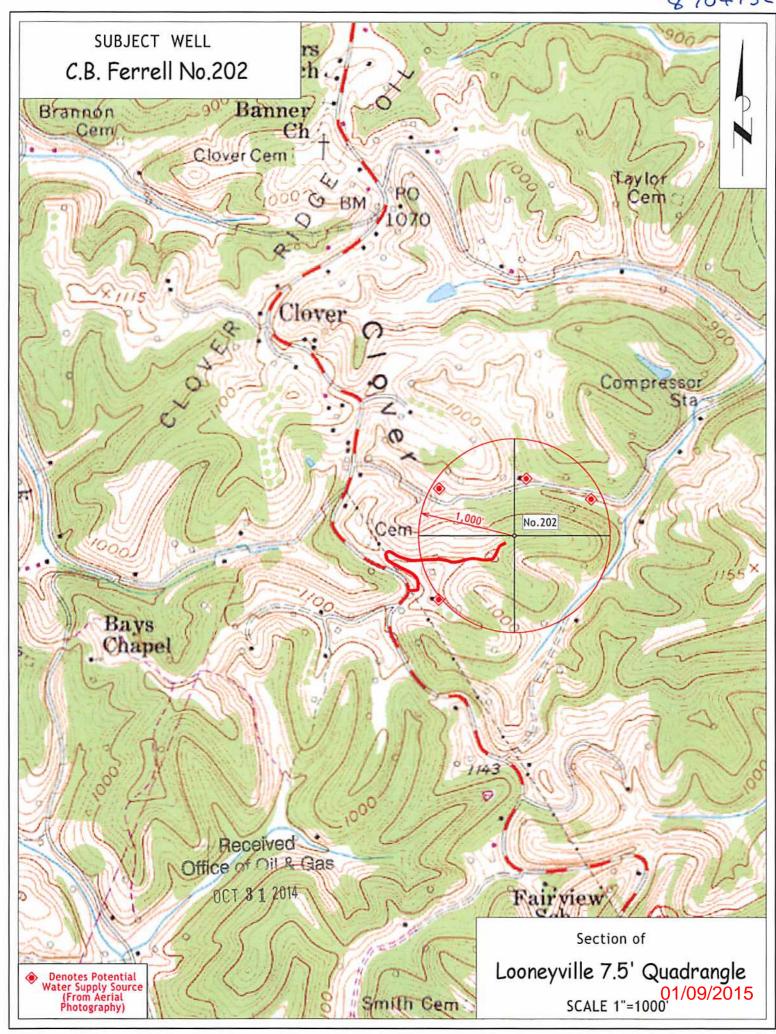
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

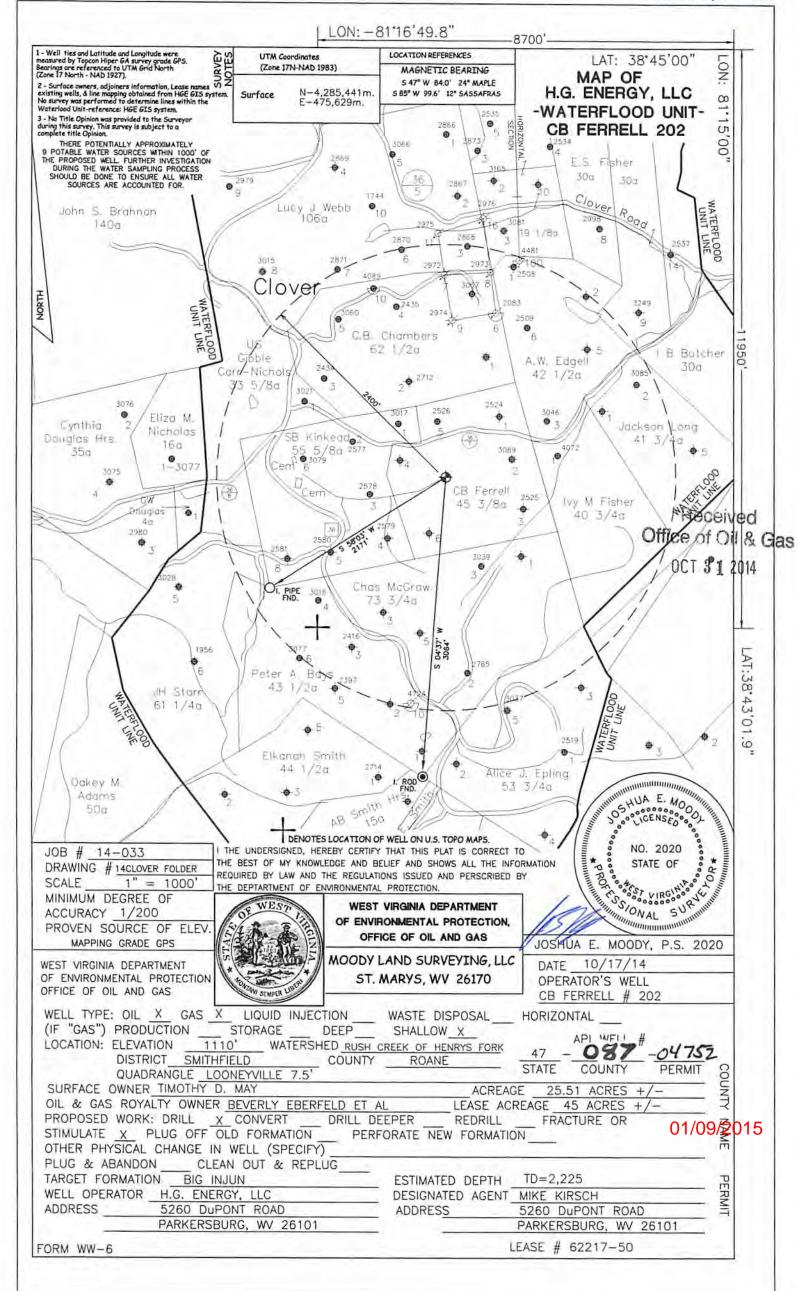
Operator Name HG Energy, LLC		OP Code 494497948	
Watershed (HUC 10) Rush Cree		Quadrangle Looneyville 7.5'	
Elevation 1110'	County_Roane	District_Smithfield	
Do you anticipate using more than	5,000 bbls of water to complete t	the proposed well work? Yes	Nox
Will a pit be used for drill cuttings	s? Yes x No		
If so, please describe ant	icipated pit waste: Fluids encou	ntered while drilling subject well	
Will a synthetic liner be	used in the pit? Yes X No	If so, what ml.? 20 mil	
	od For Treated Pit Wastes:		
Off Sit	Application ground Injection (UIC Permit Nu (at API Number e Disposal (Supply form WW-9 f (Explain	mberfor disposal location)	
Will closed loop system be used?	No		
Drilling medium anticipated for the	his well? Air, freshwater, oil base	ed, etc. Air, Fresh Water	
Additives to be used in drilling m			
	Leave in pit, landfill, removed offs	site, etc. Leave in pit	
-If left in nit and plan to	solidify what medium will be use	d? (cement, lime, sawdust) Native soil, ce	ement, lime
Landfill or offcite name	e/permit number?		
on August 1, 2005, by the Office provisions of the permit are enfo law or regulation can lead to enfo I certify under penalty application form and all attach	of Oil and Gas of the West Virgin orceable by law. Violations of ar orcement action. of law that I have personally ex- ments thereto and that, based of lieve that the information is true formation, including the possibility		t and/or other applicable nation submitted on this ediately responsible for hat there are significant
Company Official Signature	Diane White	Offic	ce of Oil & Gas
Company Official (Typed Name			OCT 3 1 2014
Company Official Title	Agent		00104
Subscribed and sworn before me	ethis 21 day of Oct Plate Nov 12,2018	ober 20, Va	N. TARS IT AL N. TARS IT AL IC SELECTION OF SHIEL TARS IT AL IC SELECTION OF SHIEL SELECTION OF SHIP SELECTION OF SHIP S

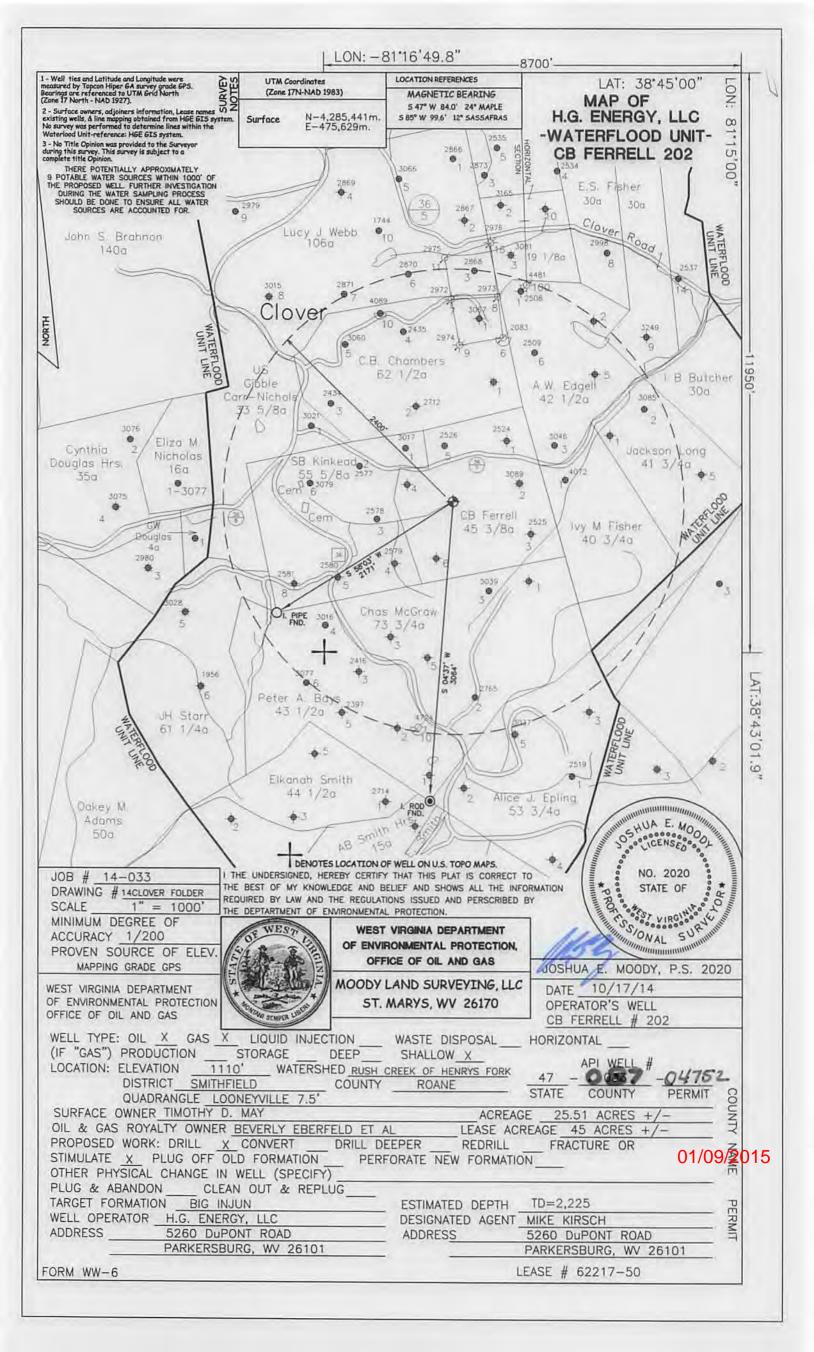
Form WW-9	Operator's	Well No. SB Kinkead 20
	•	
Proposed Revegetation Treatment: Acres Disturbed	2.2 acres Prevegetation	рН
Lime Tons/acre or to co		
Fertilizer (10-20-20 or equivalent)	500 lbs/acre (500 lbs minimum)	
Mulch_ Straw 2		
Millen	Seed Mixtures	
Area I		Area II
Seed Type lbs/acre	Seed Type	lbs/acre
Tall Fescue 40	Tall Fescue	40
Ladino Clover 5	Ladino Clover	5
Photocopied section of involved 7.5' topographic sh Plan Approved by: Comments:		tall times
Title: rectar Field Reviewed? (X) Yes	Date: 10 23/1	4

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

Received
Office of Oil & Gas
OCT 3 1 2014

October 21, 2014

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

RE: C. B. Ferrell No. 202

Smithfield District, Roane County

West Virginia

Dear Mr. McLaughlin:

Enclosed are the Forms WW-2A, WW-2A (1), WW-2B, WW-9, WW-2(B1), mylar of plat, reclamation plan, topo map and copy of the certified mailing receipt for a permit to drill the above-captioned shallow, producing well. Our check in the amount of \$650 is attached.

If you have any questions regarding this application, please call me at 304-420-1119.

Very truly yours,

Diane White

Diane C. White

Enclosures

cc:

Timothy D. May - Certified Reva Snodgrass - Certified Ed Gainer - Inspector