

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

April 17, 2015

WELL WORK PERMIT

Vertical Well

This permit, API Well Number: 47-8704769, 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.

hief

Operator's Well No: E. SMITH 212

Farm Name: CHADWELL, RONALD & BREND

API Well Number: 47-8704769

Permit Type: Vertical Well

Date Issued: 04/17/2015

Promoting a healthy environment.

070.1740	
15 Day End of Comment: 63 10 15	
CHECKLIST FOR FILING A PERMIT	
Vertical Well	
WW.2B	8
#650°	0
V inspector signature on ww-25	
More than 5,000 bbls	
Inspector Signature on WW-9	
Reclamation plan	
Topographic Map of location of well	
Mylar Plat (Signed and Sealed) (Surface owner on plat matches WW-2A)	
Bond	
Company is Registered with the SOS	
Worker's Compensation / Unemployment Insurance account is OK	
Flow Distance to Nearest Intake	
	d)
Professional Engineer/Company has COA	
	WW-2B WW-2A (Notarized) Certified Mail Receipts, Waivers, or Affidavits of Personal Service Surface Owner Waiver Coal Owner / Lessee / Operator Waiver WW-2A-1 (Signed) Showing Book/Page Number and Royalty Percentage WW-2B-1 (Names, addresses, and spot on topographical map listed as water testing) WW-9 (Page 1 & 2) (Notarized) More than 5,000 bbls Inspector Signature on WW-9 Reclamation plan Topographic Map of location of well Mylar Plat (Signed and Sealed) (Surface owner on plat matches WW-2A) Bond Company is Registered with the SOS Worker's Compensation / Unemployment Insurance account is OK \$650.00 check (\$550.00 if no pit) Mine Data Addendum Flow Distance to Nearest Intake Horizontal Rule Series 8 Effective August 30, 2011-Well Sites Greater Than 3 Acres Erosion and Sediment Control Plan Site Construction Plan Well Site Safety Plan Water Management Plan (Plan to withdraw 210,000 gallons or more during any one month perio) Within a Municipality Class I Legal Advertisement in Newspaper for first permit on well pad

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.
- 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 on this well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

04/17/2015

WW - 2B (Rev. 8/10)

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

won operate.	: HG En	ergy, LLC	0	494497948	Roane	Smithfield	Looneyville 7.
				Operator ID	County	District	Quadrangle
Operator's We	ell Numbe	er:_Elkanr	nah Smith 212		3) Elevation:	1148'	
Well Type: (a)	Oil_X_	or Gas					
(b)	If Gas:	Produc	tion/ Und	erground Sto	rage	-	
			/ S		_		
Proposed Tar Proposed Tot Approximate Approximate	al Depth: fresh wat	er strata	Big Injun Feet depths: 450' 1675'	Formation at F	Proposed Tar Proposed Tota	get Depth: _B	Sig Injun
Approximate	coal sean	n depths:	: NA				-
			I, Karst, other):	NA			
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			d fracturing moth	ode in detail (attach additiona	al sheets if r	needed)
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Conductor Fresh Water Coal	specific Size	cA ATIONS	SING AND TU Weight per ft	BING PROGI FOOTAGE For Drilling	RAM INTERVAL Left in Well	S CEN Fill -up (0	MENT Cu. Ft.) TS 0 sks
and stimulated and st	SPECIFIC Size 7"	CA ATIONS Grade	SING AND TU Weight per ft 17#	BING PROGI FOOTAGE For Drilling	RAM INTERVAL Left in Well 575'	S CEM Fill -up (0	MENT Cu. Ft.) TS 0 sks
Conductor Fresh Water Coal Intermediate Production	SPECIFIC Size 7"	CA ATIONS Grade	SING AND TU Weight per ft 17#	BING PROGI FOOTAGE For Drilling	RAM INTERVAL Left in Well 575'	S CEM Fill -up (0	MENT Cu. Ft.) TS O sks VED and Gas

Permit

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

1). Date: February 6, 2015

2.) Operator's Well Number

Elkannah Smith 212

State 47County

Roane

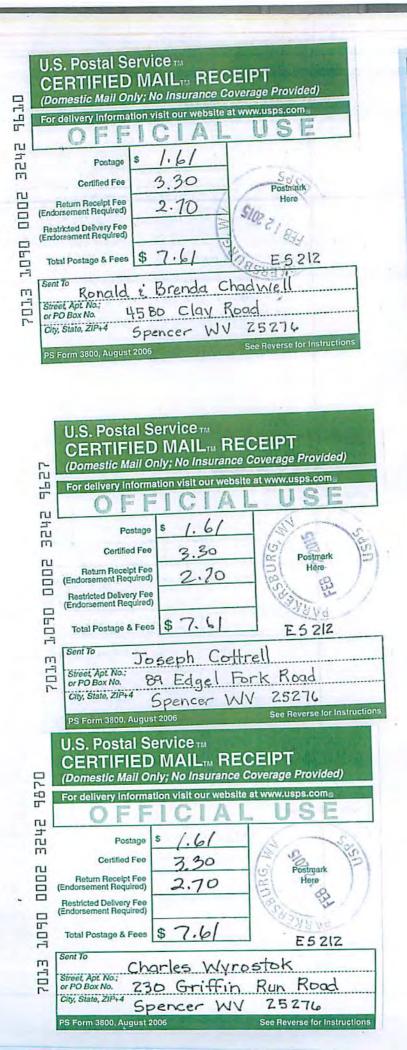
3.) API Well No.:

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

	ner(s) to be served:		5) (a) Coal Operator	
(a) Name	Ronald & Brenda C	hadwell	Name	
Address	4580 Clay Road		Address	
10000000	Spencer, WV 25276	5		
(b) Name	Joseph Cottrell		(b) Coal Owner(s) with	n Declaration
Address	89 Edgel Fork		Name	
radioss	Spencer, WV 25276	3	Address	
ZOV KILDON	Oberlee Wurentok		Name	
(c) Name	Charles Wyrostok		Address	
Address	230 Griffin Run	2	7,001000	
	Spencer, WV 2527	0	(c) Coal Lessee with I	Declaration
6) Inspector	Ed Gainer		Name	Scoulation
Address	P. O. Box 821		Address	
	Spencer, WV 2527	6	Address	
Telephone	304-389-7582		MED ABOVE TAKE NOTIC	DE TUAT.
Included in t	he lease or leases or othe	er continuing o	contract or contracts by which	h I hold the right to extract oil and gas
				Code of West Virginia (see page 2)
_	Personal Service (Affidavit atlac	nea)	the above named parties by:
I have re issued under thi I certify this application	Personal Service (X Certified Mail (Pos Publication (Notice ead and understand Chap s application. under penalty of law that form and all attachments	Affidavit attactmarked posta e of Publication oter 22-6 and t I have personal t and that ba	ned) al receipt attached) a attached) 35 CSR 4, and I agree to conally examined and am fan sed on my inquiry of those i	the terms and conditions of any permit niliar with the information submitted or individuals immediately responsible for ete.
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The Office of Oil and Gas processes your personal information, such as name, address and phone number, as part of opposition duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to course of with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will provided 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

2928



RECEIVED
Office of Oil and Gas

FEB 2 0 2015

WV Department of Environmental Protection 04/17/2015

WW-	-2A	1	
(Rev.	1/1	1)

Operator's Well Number Elkannah Smith 212

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:

Grantee, Lessee, etc.

Royalty

Book/Page

- See attached-

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

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 affectivity is initiated.

Office of Oil and Gas

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

FEB 2 0 2015

Diane White, Agent

WV Department of Environmental Protection

Form	WW-2A(1)
(10/10))

Operator's Well No.	Elkannah Smith 212
Operation of the same	

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

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- 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
Elkannah Smith ET UX	South Penn Oil Company	1/8	8/435

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 drillingoperations 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

RECEIVED
Office of Oil and Gas

FEB 2 0 2015

Well Operator:	HG Energy, LLC	
By:	Diane C. White	Diane you Destartment of
Its:	Agent	Environmental Protection
<u>. </u>	-	Environmen (94/1/7/2015

WW-2B1 (5-12) Well No. Elkannah Smith 212

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

Sampling Contractor

Sturm Environmental

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. CENED

SEE TOPO MAP Surface Owners w/ Mater Sources Identification Diband Gas

Renda Chadwell

* Ronald & Brenda Chadwell 4580 Clay Road Spencer WV 25276

WV Department of Environmental Protection

* Joseph Cottrell 89 Edgel Fork Spencer WV 25276

04/17/2015

WW-9)
(5/13)	ı

	Page	of	_
API Number 47			
Operator's We	II No. Elkannah S	imith 212	

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

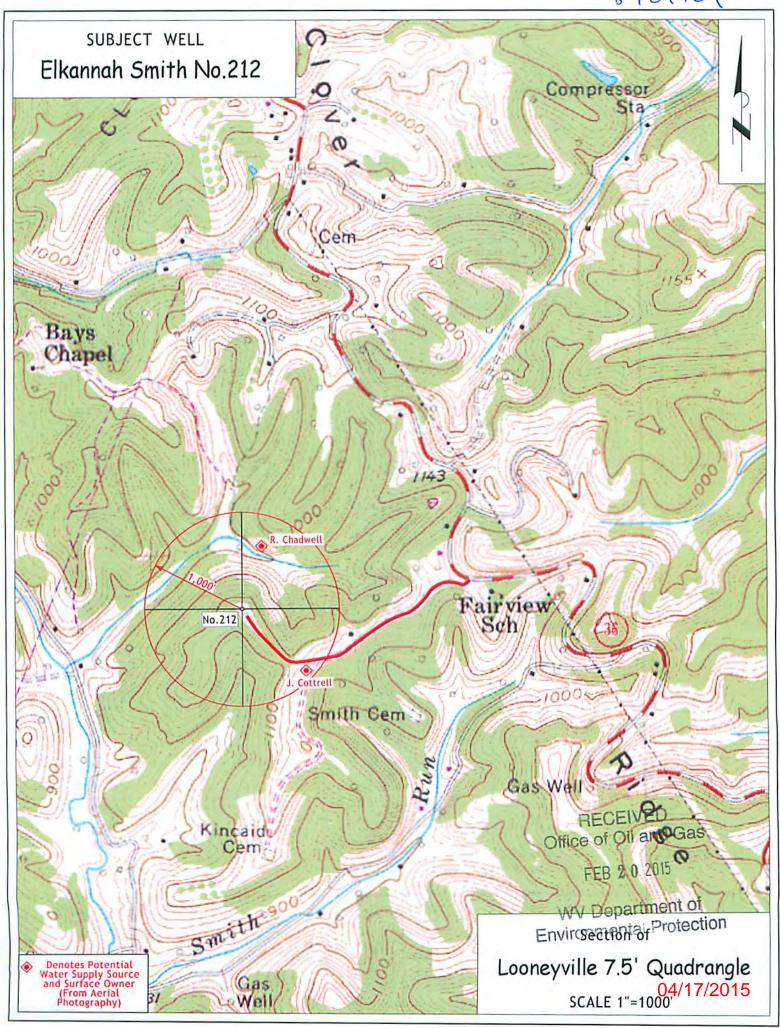
Operator Name HG Energy, LLC OP Code 494497948
Watershed (HUC 10) Laurel Fork Quadrangle Looneyville 7.5'
Elevation 1148' County Roane District Smithfield
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No _X
Will a pit be used for drill cuttings? Yes X No No
If so, please describe anticipated pit waste: Fluids encountered while drilling subject well
Will a synthetic liner be used in the pit? Yes X No If so, what ml.? 20 mil
Proposed Disposal Method For Treated Pit Wastes:
Land Application
Underground Injection (UIC Permit Number 25-561
Reuse (at API Number) Off Site Disposal (Supply form WW-9 for disposal location)
Other (Explain
Will closed loop system be used? No
Drilling medium anticipated for this well? Air, freshwater, oil based, ctc. Air, Fresh Water
-If oil based, what type? Synthetic, petroleum, etc. NA
Additives to be used in drilling medium? Water, soap, KCI
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Leave in pit
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) Native soil, cement, lime
-Landfill or offsite name/permit number?
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issue on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the information submitted on the application form and all attachments thereto 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 or imprisonment.
Company Official Signature Dione White
Company Official (Typed Name) Diane White Office of Oil
Company Official (Typed Name) Diane White Company Official Title Agent Company Official Title Agent
OFFICIAL BEAK
Subscribed and sworn before me this 6th day of February Subscribed and sworn before me this 6th day of February Subscribed and sworn before me this 6th day of February Subscribed and sworn before me this 6th day of February Subscribed and sworn before me this 6th day of February Subscribed and sworn before me this 6th day of February Subscribed and sworn before me this 6th day of February Subscribed and sworn before me this 6th day of February Subscribed and sworn before me this 6th day of February
Parkersburg. West Vigoro 28001

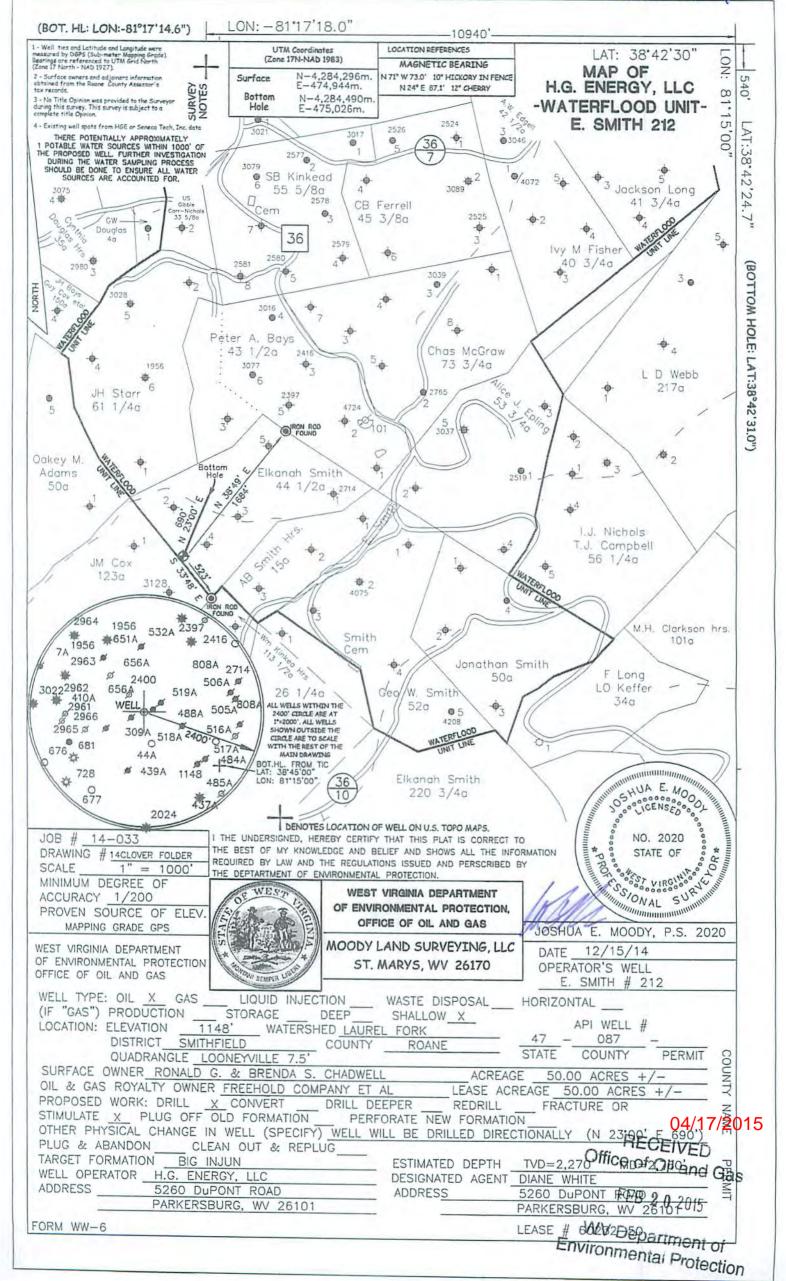
	Treatment: Acres Distur		Prevegetation pH	
Lime	Tons/acre or to	o correct to pH 500	cre (500 lbs minimum)	
Mulch_Stra		2 Tons/ac	- In the second second	
		Seed	Mixtures	
Seed Type	Area I lbs/acre		Seed Type	a II lbs/acre 40
Tall Fescue Ladino Clover	<u>40</u> 5		Tall Fescue Ladino Clover	5
Photocopied section of	involved 7.5 topograpiii	ic silect.		
Plan Approved by:				
			*	
Plan Approved by:				
Plan Approved by:				
Plan Approved by:				
Plan Approved by:				
Plan Approved by:				
Plan Approved by: Comments:			Date: 2/12/15	

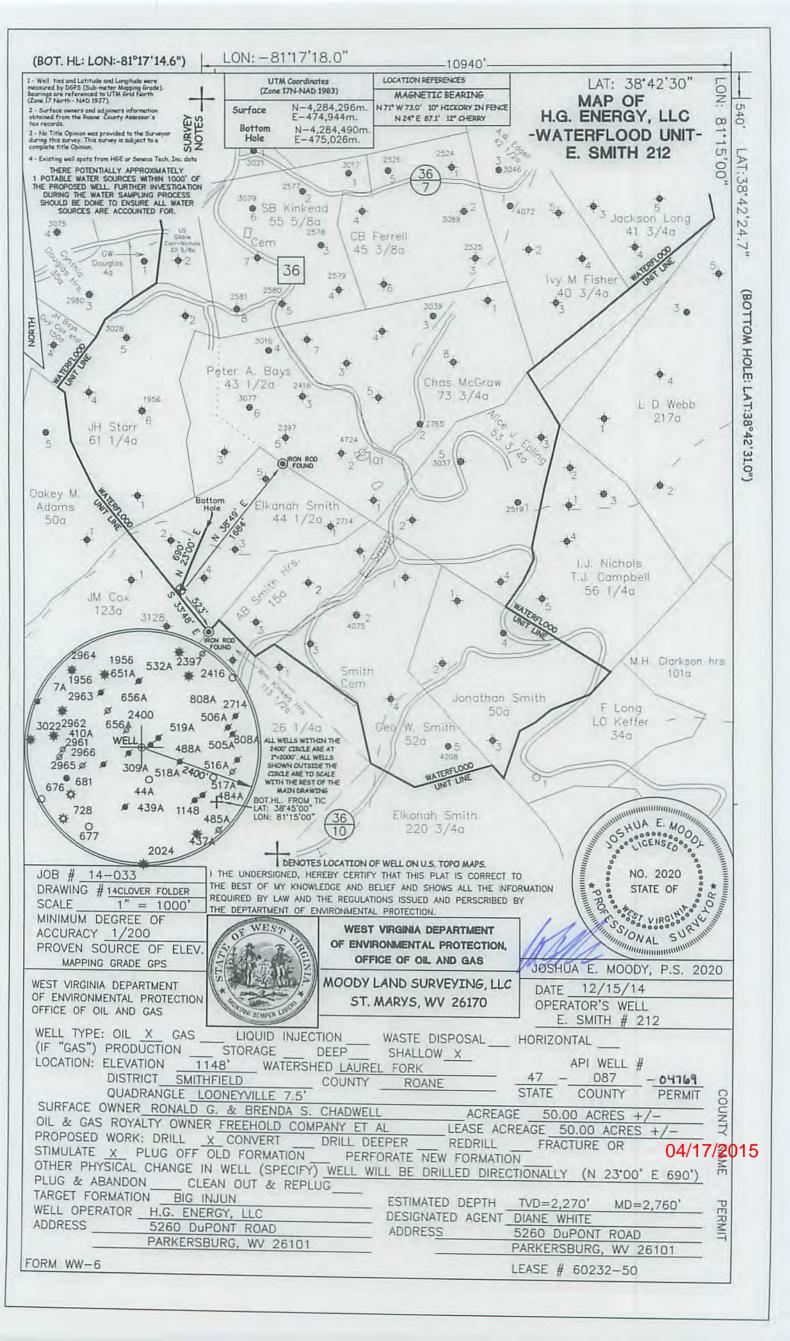
Office of Oil and Gas

FEB 2 0 2015

WV Department of Environmental Protection 04/17/2015

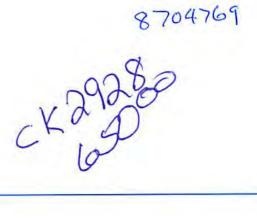








HG Energy, LLC 5260 Dupont Road Parkersburg, WV 26101 (304) 420-1100 - Office (304) 863-3172 - Fax



February 6, 2015

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

RE: Elkannah Smith No. 212

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

Ronald & Brenda Chadwell - Certified cc:

> Joseph Cottrell - Certified Charles Wyrostok - Certified Ed Gainer - Inspector

RECEIVED Office of Oil and Gas

FEB 2 0 2015

WV Department of Environmental Protection