

#### 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

July 06, 2015

### WELL WORK PERMIT Secondary Recovery Well

This permit, API Well Number: 47-4303490, 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: EPHRAIM GRIFFITH 133

Farm Name: BENDER, JASON & ASHLEY

API Well Number: 47-4303490

Permit Type: Secondary Recovery Well

Date Issued: 07/06/2015

Promoting a healthy environment.

### **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.

FORM WW-3 (B) 1/12



1)	Date:					
	Operator's Well 1	No.	Eph	nraim Griffith	133	
3)	API Well No.:	47	-	Lincoln	-	s 03490
		State		County		Permit
4)	UIC Permit No.	LIICO	DOAD	0140		

# 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

7) WELL OPER	Distric	t: Duval			Co	unty Lincoln	orter Fork	Quadra	ngla Criffi	ithsville 7.5'
I) WELL OPER	ATOR: H		LLC			8) DESIGNA	TED AGE			urisville 7.5
	-	260 Dupor			-	o) DESIGN	Addre		upont Road	4
	P	arkersburg	, WV 2610	01			ridare	The state of the s	burg, WV 2	
9) OIL & GAS II						10) DRILLIN	JG CONTI		buig, vvv z	10101
Name Jerem	ny James							ned Upon App	roval of Pe	ermit
Address P.O.	Box 147					Address				
Ona, \	NV 25545					_				
11) PROPOSED  12) GEOLOGIC			Drill Plug off Other p	physical	nation	deeper Perfo / Perfo well (specify) Depth	orate new fe	_		Stimulate Convert
13) Estimated De					onth of avic	ting wall): 200	2005 TMD	Feet (top	-	Feet (botton
14) Approximate				esh 150		Feet 250	Salt	Feet		
15) Approximate			200			_ rect	San -	1000	Feet	
16) Is coal being					No					
17) Virgin reserv				on 1250		Source	Estimated			
8) Estimated res	ervoir fra	cture pres	sure 26	50		5 Dource	Louridica			psig (BHFP)
9) MAXIMUM	PROPOS	ED INJE	CTION C	PERAT	TONS: 1	Zalama man kan	r 25 BBI	Dottom I	nole press	
121 IVIZAZIIVI UIVI										
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20) DETAILED	DENTIFI	CATION	OF MA	TERIAL	STOBEI	NJECTED, INC	CLUDING	ADDITIVE	S Fresh	water, produced
20) DETAILED I water, bactericid	IDENTIFI	CATION er chemica	OF MA'	TERIAL ed to mai	S TO BE I	NJECTED, ING juality and improv	CLUDING	ADDITIVE	ES Fresh	water, produced
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Office of Oil & Gas

CK# 2999 43034905

FORM WW-3 (A) 1/12



1)	Date:	April 10,	2015				
2)	Operato	or's Well	No.	Ephrai	m Griffith	133	
3)	API W	ell No.:	47	- 4		1.6	
			State		County		Permit
4)	UIC Per	mit No.	UIC2	R04301	AP		

# 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,

FOR TH	IE DEPARTMENT OF ENVIRONM	ENTAL PI	ROTECTION,	OFFICE OF OIL AND GAS,
	mer(S) To Be Served	7) (a) Coal	Operator	
(a) Name	Jason & Ashley Bender	Name	NA	
Address	20 Open Harvest Drive	Address		
	Yawkey, WV 25573	Carlonne C		
(b) Name	Jeremy & Sarah McClung	- North Control	the state of the s	Declaration Of Record
Address	1754 Midway Road	Name	NA	
	Sumerco, WV 25567	Address	-	
(c) Name		Name	-	
Address		Address		
6) Inspector	Jeremy James	7) (c) Coal	Lessee with Decla	aration Of Record
Address	P. O. Box 147	Name	NA	decre in Vivi e in e
	Ona, WV 25545	Address		
Telephone				
THE REASO	proposed for the first injection or wasten YOU HAVE RECEIVED THESE DON WHICH ARE SUMMARIZED IN THE ATION [(FORM WW-3(B))] DESIGNATE ALL.	CUMENTS "INSTRUC	IS THAT YOU TIONS" ON THE	E REVERSE SIDE OF THE COPY OF
Take notice the Notice and Ap West Virginia Application are and Reclamati	at under Chapter 22-6 of the West Virginia polication and accompanying documents for Department of Environmental Protection described depicted on the attached Form WW-6, on Plan have been mailed by registered or in certain circumstances) on or before the contraction of the contr	or a Well Wo n, with respe Copies of thi certified mai	ork Permit with the ct to a well at the Notice, the App of delivered by	ne Chief of the Office of Oil and Gas, ne location described on the attached lication, the plat, and the Construction hand to the person(s) named above (or
	The person signing this docum	nent shall m	ake the followin	g certification:
	r penalty of law that I have personally exan	Jan de said	Well Operator	HG Energy, LLC
"I certify unde	r penalty of law that I have personally exanth the information submitted in this documents	ant and all	Address	5260 Dupont Road
	d that, based on my inquiry of those individual		- CELEBOOK	Parkersburg, WV 26101
	esponsible for obtaining the information, I be		By:	Diane White
	is true, accurate and complete. I am awar		Its:	Agent
are significant	nenalties for submitting false influenation	indluding	-eMi	p.w.r.c.
the possibility	of fine and imprisonment	& Gae	Signature:	Diane White

WW-2B1	
(5-12)	

Well N	lol	Ephraim	Griffith	133

## 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

Well Operator
Address

Environmental Labs

Sturm Environmental Labs

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-

Office of Oil & Gas

WW-2B1
Page 2 - Continued

Well No.

Edna J May 133

## 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:

- Edward Price
   4850 Midway Road
   Yawkey, WV 25573
- Jeremy McClung
   1754 Midway Road
   Sumerco, WV 25567
- Garland Adkins
   5249 Straight Fork Road
   Griffithsville, WV 25521
- Joann McMellon
   4642 Midway Road
   Yawkey, WV 25573
- Wilford Bird
   4622 Midway Road
   Yawkey, WV 25573
- \* Mary Pauley
  221 Bowie Street
  St Albans, WV 25177

- Jackie Stowers
   4818 Midway Road
   Yawkey, WV 25573
- \* Earl Ryan 4797 Midway Road Yawkey, WV 25573
- \* DAVIS Brothers, LLC P. O. Box 11 Sumerco, WV 25567
- \* Delphia Tudor 4689 Midway Road Yawkey, WV 25573
- Jason Bender
   20 Open Harvest Drive
   Yawkey, WV 25573

Received
Office of Oil & Gas
MAY 1 3 2015

WW-9 Rev. 5/10

Page <u>67</u> of	
API Number 47	
Operator's Well No. Ephraim Griffith 133	

# 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

(	GENERAL PERMIT FOR OIL AND G	AS PIT WASTE DISCHARGE		
Operator Name HG Energy, LL	c	OP Code 49449794	18	
Watershed Porter Fork	Qua	Quadrangle Griffithsville 7.5		
Elevation 725	CountyLincoln	District Duval		
Description of anticipated Pit W	aste: Fluids accumlated while drilling to	ne subject well		
	an 5,000 bbls of water to complete the		No X	
Will a synthetic liner be used in	the pit? Yes If so, wl	nat mil.? 20 Mil	<u> </u>	
Undo Reus Off S	Treated Pit Wastes: Application erground Injection (UIC Permit Number (at API Number lite Disposal (Supply form WW-9 for c	lisposal location)		
	this well? Air, freshwater, oil based, e 7 Synthetic, petroleum, etc. NA pap, KCI			
	?No Leave in pit, landfill, removed offsite, o solidify what medium will be used? (ne/permit number?			
on August 1, 2005, by the Offic provisions of the permit are enlaw or regulation can lead to en I certify under penalty application form and all attac obtaining the information, I be	and and agree to the terms and condition of Oil and Gas of the West Virginia Eforceable by law. Violations of any teforcement action.  To of law that I have personally examination thereto and that, based on melieve that the information is true, actions of the condition, including the possibility of formation, including the possibility of the condition.	Department of Environmental Property or condition of the general period and am familiar with the in y inquiry of those individuals curate, and complete. I am away	tection. I understand that the ermit and/or other applicable formation submitted on this immediately responsible for	
Company Official Signature	Diane White		Received	
Company Official (Typed Nam			Office of Oil & Ga	
Company Official Title Agent			MAY 1 3 2015	
Subscribed and sworn before m	e this 10th day of April		OFFICIAL SEAL NOTARY PUBLIC	
My commission expires	H. 4 2016	jc	STATE OF WEST VIRGINIA S. DIANNE DULANEY 5260 Dupont Road Parkersburg. West Virginia 26101	

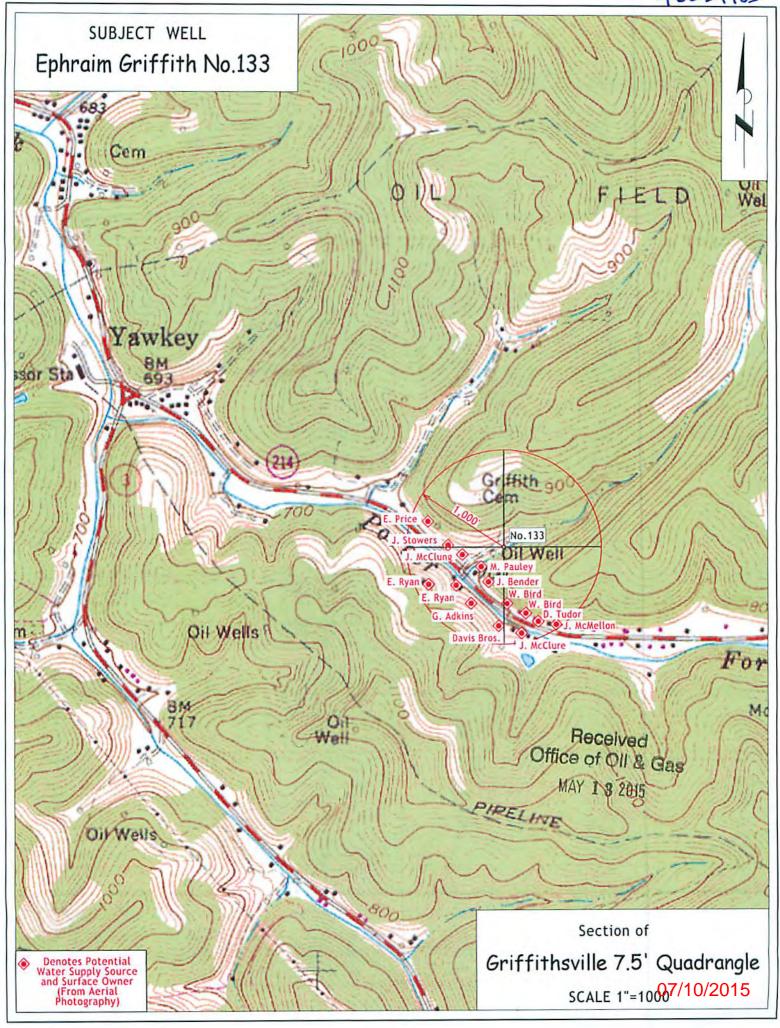
Operator's Well No. Ephraim Griffith 133

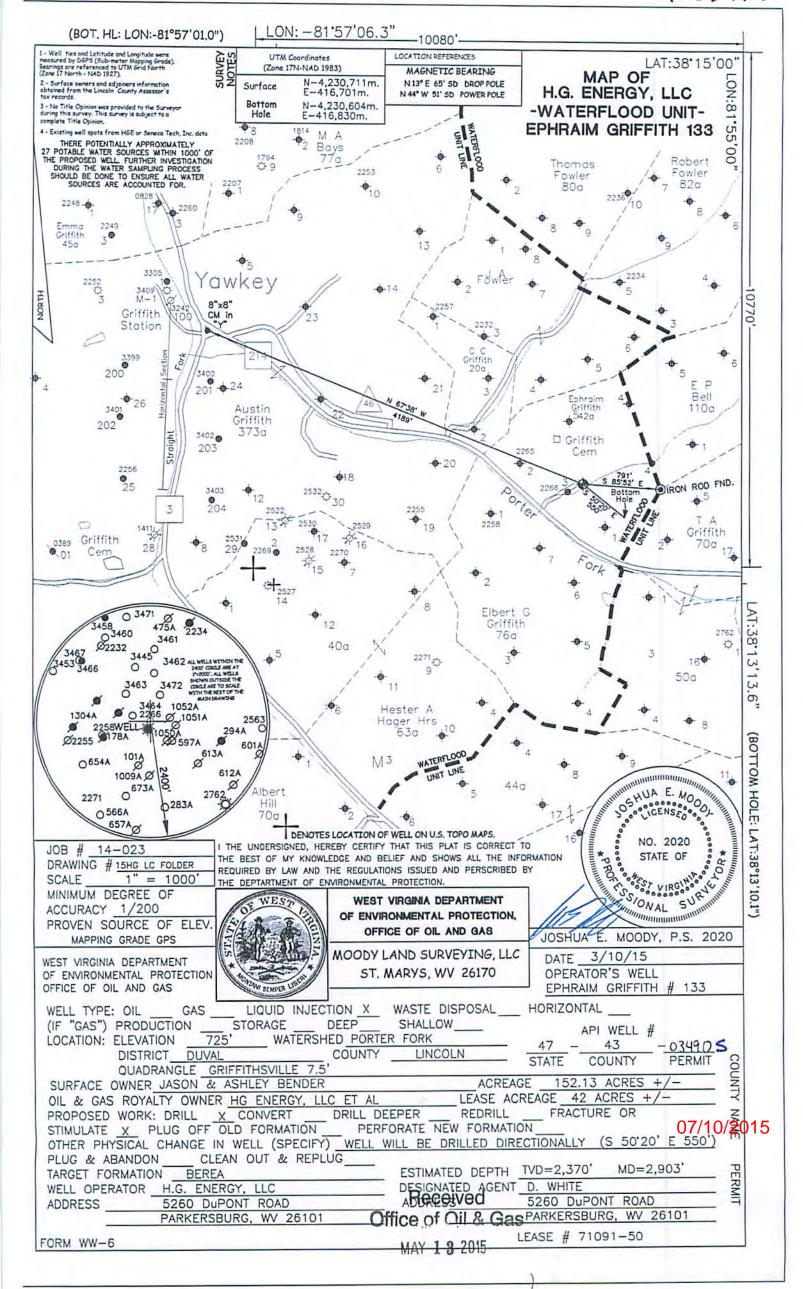
		LEGEND	
Property Boundary	<b>—</b>	Diversion executive 111	
Road = = = =		Spring	
	_ × _ × _	Wet Spot	
Planned Fence/			—— ® ——
	٠٠٠ هـ ١٠٠٠ .		$\Leftrightarrow$
Open Ditch ——	<del></del>	•	
Rock 638888	-		****
North N		Pit: cut walls	WH.
Buildings (C)	•	Pit: compacted fill walls	mark
Water wells (W)	!	Area for Land Application of	Pit Waste
Drill site		6	
Fertilizer (10-20-20 Mulch_Straw	Tons/acre or to correct	ct to pH 6.5  DO lbs/acre (500 lbs minimum)  Tons/acre  Seed Mixtures	rea II    lbs/acre
	4U 		40
Ladino Clover	5	Ladino Clover	5
**Sediment Contro	l should be in pla	ce at all times**	
Attach: Drawing(s) of road, location,	pit and proposed area for la	and application.	
Photocopied section of invol	ved 7.5' topographic sheet.		Received Office of Oll & Gas
Plan Approved by: Rolp	&D. Tripede	γ	MAY 1 3 2015
Comments:	·		
	incoln Yes (	Date: <u>April 23, 2</u>	015

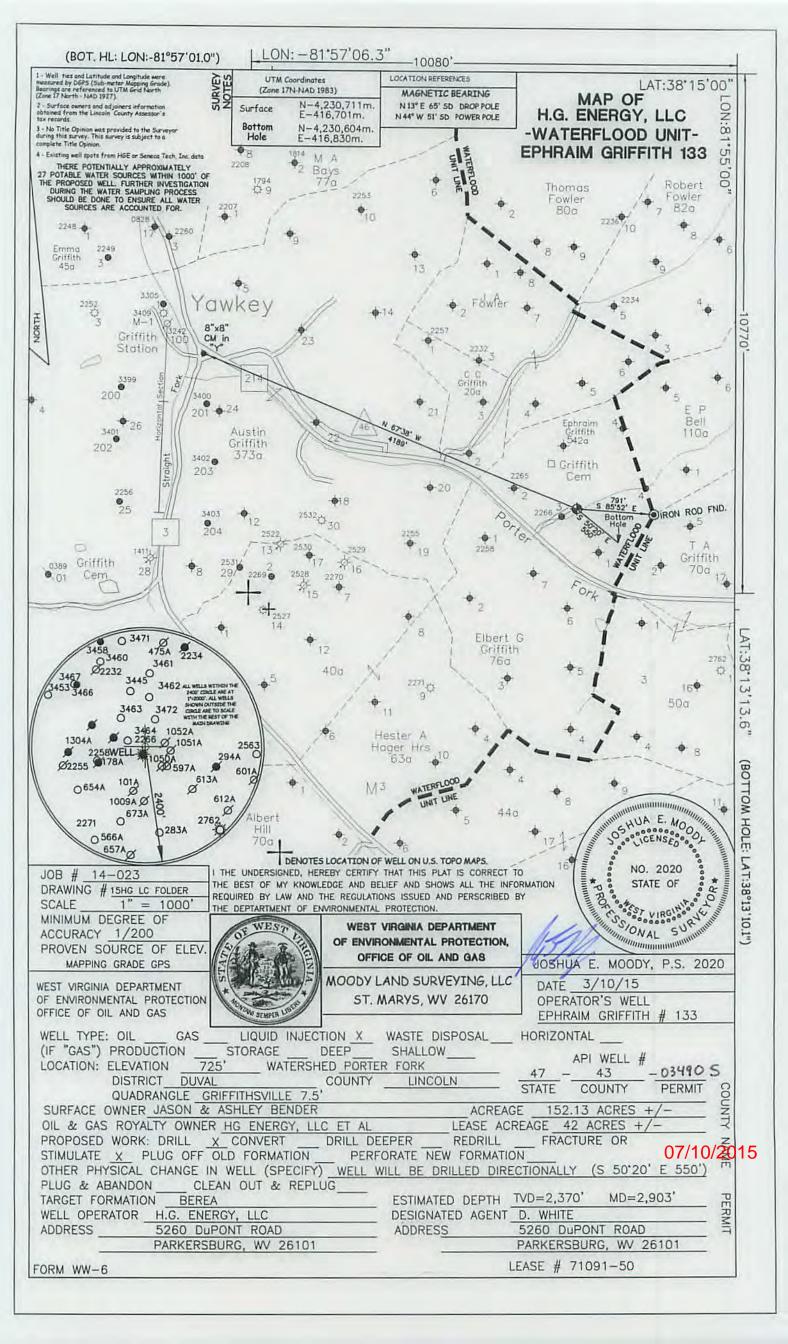
AS-BUILT CONSIDERATIONS.

• DRAWING NOT TO SCALE.

4303490







T

Daviawad bu	aw un	Dotar	7/	2/15
WELL No:	EPHRAIM GRIF	FITH 133		
Operator: HG	ENERGY, LLC		API:	4303490

15 Day End of Comment: 05/29/18

### CHECKLIST FOR FILING A PERMIT

	Secondary Recovery Well Ck# 2999
1	WW-2B Secondary Recovery Well Ck# 2999
/	Inspector signature on WW-2B
1	WW-3A (Notarized)
1	Certified Mail Receipts, Waivers, or Affidavits of Personal Service
	Surface Owner Waiver
	Coal Owner / Lessee /Operator Waiver
1	WW-38 C(Signed) Showing Book/Page Number and Royalty Percentage
/	WW-2B-1 (Names, addresses, and spot on topographical map listed as water testing)
1	WW-9 (Page 1 & 2) (Notarized)
NO	More than 5,000 bbls
/	Inspector Signature on WW-9
/	Reclamation plan
/	Topographic Map of location of well
1	Mylar Plat (Signed and Sealed) (Surface owner on plat matches WW-2A)
1	Bond
1	Company is Registered with the SOS
1	Worker's Compensation / Unemployment Insurance account is OK
/	\$650.00 check (\$550.00 if no pit)
1	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 period)
	Within a Municipality
	Class I Legal Advertisement in Newspaper for first permit on well pad
	Professional Engineer/Company has COA

U.S. Postal Service 430 34905 CERTIFIED MAIL RECEIPT LJ 707 4074 3.30 Postmark Here 0000 Certified Fee Return Receipt Fee (Endorsement Required) Restricted Delivery Fee (Endorsement Required) 0570 Total Postage & Fees \$ 7.6 EG 133 7074 Jason Ashley Bender Street, Apt No.; 20 Open Harvest Drive or PO Box No. City, State, ZIP+4 Yawkey, WV 25573 PS Form 3800, August 2006 U.S. Postal Service m CERTIFIED MAIL, RECEIPT 705 4074 1.61 Postage 3.30 0000 Certified Fee Return Receipt Fee (Endorsement Required) 2.70 Restricted Delivery Fee (Endorsement Required) 0570 Total Postage & Fees EG 133 -1-Sarah McClung 707 Street, Apt. No.; Midway Road or PO Box No. City, State, ZIP+4 Summerco, WV 25567 PS Form 3800, August 2006

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