

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

October 28, 2014

WELL WORK PERMIT

Secondary Recovery Well

This permit, API Well Number: 47-3305848, 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: ELIZABETH FLETCHER 20

Farm Name: ROACH, M. & FLETCHER, F. ET /

API Well Number: 47-3305848

Permit Type: Secondary Recovery Well

Date Issued: 10/28/2014

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 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) Date:		91	23/2014			
2) Operator's Well	No.	Elizabeth Fletcher 20				
3) API Well No.:	47				5	
	State		County			Permit
4) UIC Permit No.	LIIC	D033	DIAD			

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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	District	: Ten N	Aile	9	Co	ounty Harriso	on	Ouadran	ngle Wolf Summit 7.5' 69
7) WELL OPER	ATOR: F	IG Energy	LLC	7.15		8) DESIGNA	TED AGE		
Ad	dress 5	260 Dupa	nt Road				Addres	The second second	upont Road
	F	arkersbun	g, WV 261	01			1,19513	_	sburg, WV 26101
9) OIL & GAS II				4.77		10) DRILLIN	G CONTE	and the same of th	3,111,20.01
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Address P.O.	Box 2327					Address			
Buckl	hannon, WV	26201							
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OCT 2 8 2014

FORM WW-3 (A) 1/12



1) Date:	Septer	tember 24, 2014					
2) Operator	's Well	No.	Eliz	abeth Flet			
3) API Well No.:		47	-	033	-		
		State		County	30/5	Permit	
4) UIC Perm	it No.	UIC	2R03	301AP			

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 Owner	r(S) To Be Served	7) (a) Coal Op	erator			
(a) Name	Michael Roach	Name				
Address	1530 Marshville Road	Address				
7.97	Salem, WV 26426					
	Frederick Fletcher		vner(S) With Declaration Of Rec	cord		
	5777 SR 21	Name				
6	Naples, NY 14521	Address				
(c) Name		Name				
Address		Address				
6) Inspector		7) (c) Coal Le	ssee with Declaration Of Record			
Address		Name	Marray Coal			
- 1277777		Address	46226 National Road			
Telephone		-	St Clairsville, OH 43950			
THE REASON Y APPLICATION V THE APPLICATI ACTION AT ALL	oposed for the first injection or waster OU HAVE RECEIVED THESE DO VHICH ARE SUMMARIZED IN THE ON [(FORM WW-3(B)] DESIGNATE ON THE SECTION OF	OCUMENTS IS E "INSTRUCTION ED TO YOU. H	ONS" ON THE REVERSE SID HOWEVER YOU ARE NOT R	E OF THE COPY OF EQUIRED TO TAKE		
Notice and Application and declaration I	eation and accompanying documents for epartment of Environmental Protection epicted on the attached Form WW-6. Of Plan have been mailed by registered or certain circumstances) on or before the de-	or a Well Work I, with respect to Copies of this Notes to certified mail or day of the mailing	Permit with the Chief of the O o a well at the location description, the Application, the plat, delivered by hand to the person g or delivery to the Chief.	ffice of Oil and Gas, ibed on the attached and the Construction		
	The person signing this docum					
	nalty of law that I have personally exam	nned and	ell Operator HG Energy, LLC			
	ne information submitted in this docume	che and an	nt and all Address 5260 Dupont Road			
	at, based on my inquiry of those individ		Office of Parkersburg, WV	26101		
	nsible for obtaining the information, I b	The second second second second				
	true, accurate and complete. I am aware alties for submitting false information, i		Agent 14			
	ine and imprisonment.		gnatures/ Department &	Shite		
			Environmental Protec	tion		

U.S. Postal Service TM CERTIFIED MAIL, RECEIPT (Domestic Mail Only; No Insurance Coverage Provided) 1449 20 1.61 \$ =0 Postage J Certified Fee 3.30 Postmark П D Return Receipt Fee (Endorsement Required) Hare 2.70 Restricted Delivery Fee (Endorsement Required) 19HE 7.6 Total Postage & Fees \$ EF20 Murray Coal П 10 Street, Apt. No.; 46226 National Road or PO Box No. City, State, ZIP+4 St. Clairsville OH 43950 PS Form 3800, August 2006 U.S. Postal Service ... CERTIFIED MAIL. RECEIPT (Domestic Mail Only; No Insurance Coverage Provided) TT m For delivery information visit our website ... 20 1.61 =0 Postage L Certified Fee 3.30 П Postmark Here Return Receipt Fee (Endorsement Required) 9 2.70 Restricted Delivery Fee (Endorsement Required) JHFE Total Postage & Fees \$ 7.61 E FZO Sent To Roach Michael Street, Apt. No.; or PO Box No. 1530 Marshville Rd City, State, ZIP+4 Salem INV 26426 PS Form 3800, August 2006 See Reverse for Instructions U.S. Postal Service CERTIFIED MAIL RECEIPT (Domestic Mail Only; No Insurance Coverage Provided) ப П IT П 3246 RKE 1.61 Postage Postmark Here Certified Fee 3.30 П Return Receipt Fee (Endorsement Required) 2.70 Restricted Delivery Fee (Endorsement Required) RECEIVED Office of Oil and Gas 1090 Total Postage & Fees \$ 7.61 EF20 Sent To m Frederick Fletcher Street, Apt. No.: or PO Box No. 5R 21 5777 WV Department of City, State, ZIP+4 1451Znvironm Naples NY See Reverse for Instructions tal Project 2014 PS Form 3800, August 2006

WW-2B1 (5-12) Well No. Elizabeth Fletcher 20

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 Laboratory
Sturm Environmental Laboratory

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.

Michael Roach 1530 Marshville Road Salem WV 26426 (2 Sources) Frederick Fletcher 5777 SR 21 Naples NY 14512 (1 Source)

RECEIVED
Office of Oil and Gas

WILL TEST AT LEAST ONE OF ABOVE BEFORE SPUDDING WELL.

WV Depart/10/3/1/2014 Environmental Protection WW-9 Rev. 5/10

	Page	138	of	
API Number 47 -	. 033	161		
Operator's Well N	o. Eliza	both Fletch	ner 20	

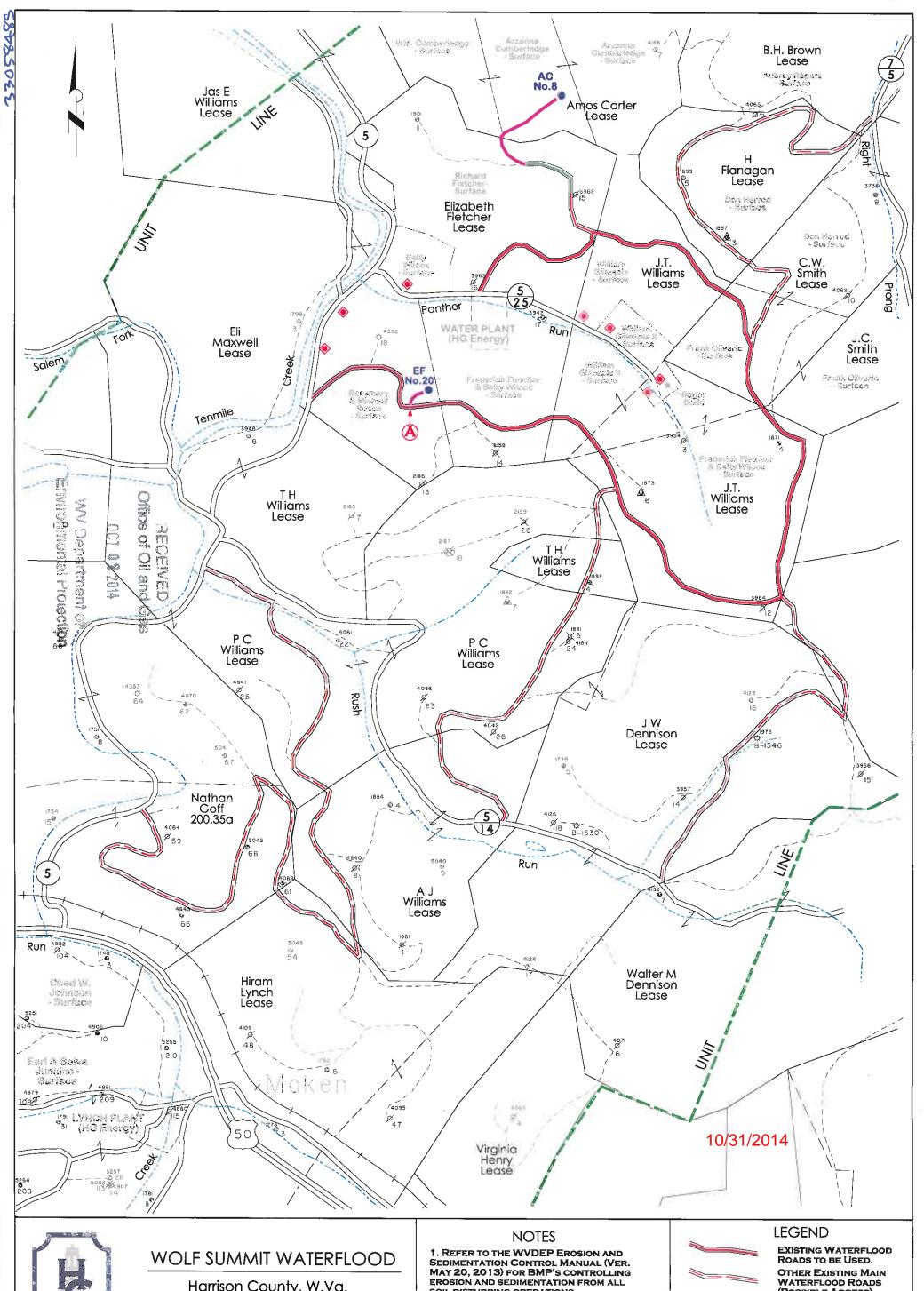
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

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

	NERAL PERMIT FOR OIL AND (
Operator Name HG Energy, LLC		OP Code494497948	
Watershed Ten Mile Creek	QuQu	adrangle _Wolf Summit 7.5'	
Elevation 1220'	County Harrison	District Ten Mile	
Description of anticipated Pit Was	te: Fluids encountered while drilling	ng subject well	
Do you anticipate using more than	5,000 bbls of water to complete the	e proposed well work? Yes	No X
Will a synthetic liner be used in the	e pit? Yes If so, w	vhat mil.? 20 mil	
Proposed Disposal Method For Tra	eated Pit Wastes:		504
X Land A			10/1/2
		ber	
	at API Number Disposal (Supply form WW-9 for	diament to out and).
	Explain		
-Landfill or offsite name/p I certify that I understand in August 1, 2005, by the Office or rovisions of the permit are enforced were regulation can lead to enforce the certify under penalty of the permit are certify under penalty of the certification.	and agree to the terms and condition of Oil and Gas of the West Virginia leable by law. Violations of any to be the comment action.	Department of Environmental Protecterm or condition of the general permined and am familiar with the infor	LUTION PERMIT i ion. I understand th it and/or other appli
pplication form and all attachme	The All Control of the All Contr		manon sublimited O.
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Operator's Well No.__Elizabeth Fletcher 20

	L	EGEND			
Property Boundary	-	Diversion (12)(11)	· · · · · · · · · · · · · · · · · · ·		
Road = $=$ $=$ $=$ $=$ $=$ $=$	=	Spring O			
Existing Fence — X — X — X	-	Wet Spot S Drain Pipe with size in inches Waterway Waterway			
Planned Fence///	_				
Stream	~#				
Open Ditch		Cross Drain 77777			
Rock ESESSE		Artificial Filter Strip	XXXXXXXXXXXXXXX		
North N		Pit: cut walls	3		
Buildings		Pit: compacted fill walls	7		
Water wells (W)		Area for Land Application	of Pit Wasie		
Drill site		(
Proposed Revegetation Treatment: Acres Disturb	2.0 a	Cres Prevegetatio			
			трп		
Lime Tons/acre or to	correct to pH _				
Fertilizer (10-20-20 or equivalent)	500 _{lbs/ac}	ere (500 lbs minimum)			
_{Mulch} Straw	2 Tons/acr	e			
Milon					
	Seed N	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		
	-				
Attach: Drawing(s) of road, location,pit and proposed area Photocopied section of involved 7.5' topographic		ation.			
Plan Approved by: SPWa	att				
			RECEIVED		
Comments: Pre-Seed/Mukh all disfu	urbed are	as as soon as no	soundly possible per		
regulation. Upgrade EtS a	s necess	eary pier Eds r	OCT 02 2014		
Title Oil + Gas Inspector		Date: 10/1/2014	1404 54		
Field Reviewed? (Vibracon) Yes	1) No	WV Department of		
Tes reviewed;		J NO	Environmental Protection		





Harrison County, W.Va.

RECLAMATION PLAN SHOWING ROAD SYSTEMS TO BE USED FOR 2014 **DRILLING PROGRAM**

Elizabeth Fletcher No.20

- 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 FROM 2003 - 2009 (As Shown). SEE PERMITS ON FILE FOR MORE DETAIL.

(Possible Access).

EXISTING LEASE OR FARM ROADS TO BE UPGRADED.

NEW ROADS TO BE CONSTRUCTED.

No.20

LOCATION FOR PROPOSED WELLS

POTENTIAL WATER SUPPLY SOURCE TO BE SAMPLED

SEPTEMBER 22, 2014

PAGE 2

Reclamation Plan For: Elizabeth Fletcher No.20



NOTE

REFER TO THE WVDEP
EROSION AND SEDIMENT CONTROL
FIELD MANUAL VER, MAY 2012 FOR
BMPS CONTROLLING EROSION AND
SEDIMENT FROM SOIL-DISTURBING
OPERATIONS.

Elizabeth Fletcher Lease

Rosemary & Michael Roach - Surface Owners

Existing Vegetative Filter Strip

Pit

Area

Access

Frederick Fletcher & Betty Wilcox - Surface Owners

100' of 12% Grade

E.F. 20⊕

Fill Area

Road

Road Serves as Diversion

0.25 Mi. to 5L5 5

To E. Fletcher No.18

Begin New Road Construction

Existing

2.0 Mi. to

SLS (5)

(See Attached Detail for Access Road to County Road)

Notes:

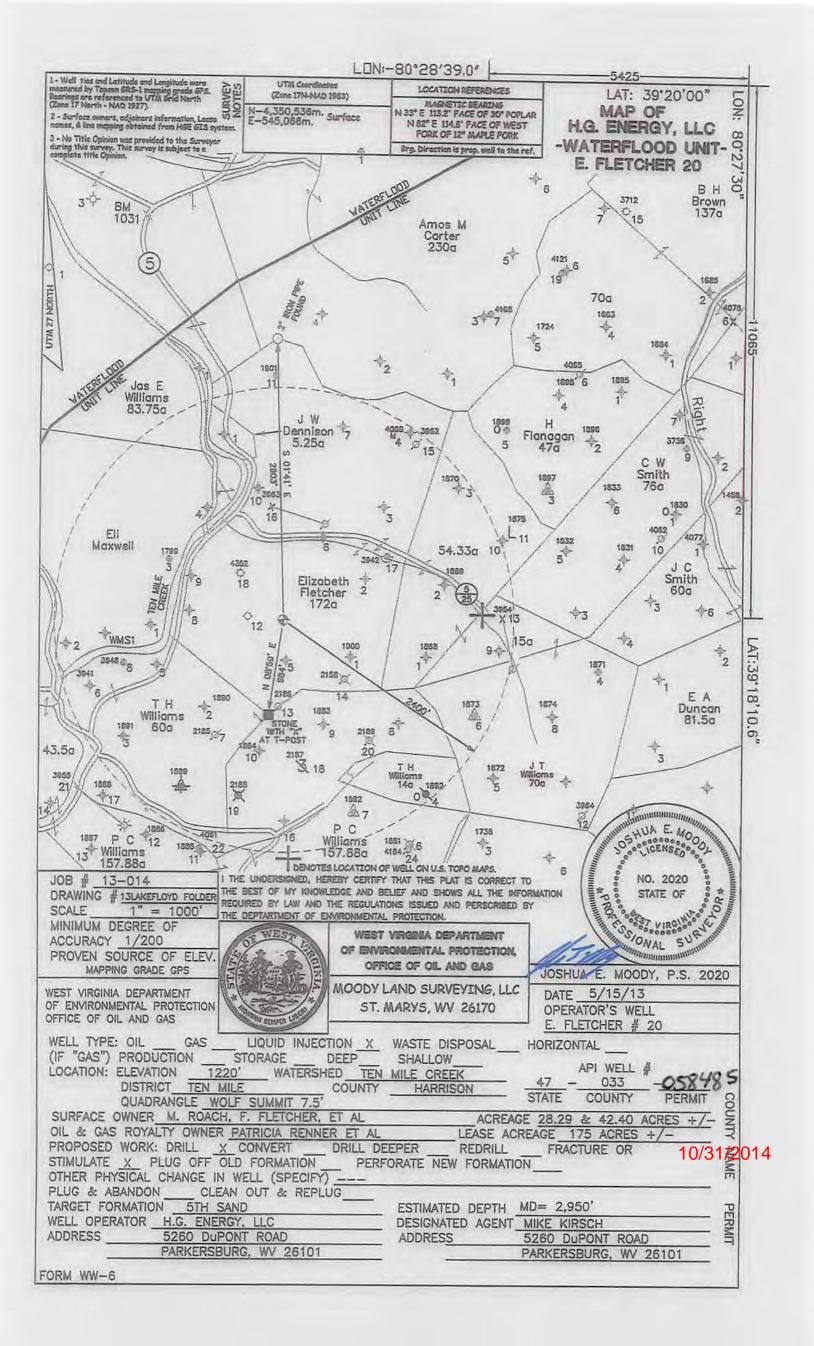
- · REQUESTED PERMIT IS FOR DRILLING OF NEW WELL.
- ACCESS ROAD FROM CO. Rd. 5/25 TO PT. AIS EXISTING.
 ROAD WILL BE UPGRADED TO WVDEP STANDARDS AND STRUCTURES INSTALLED AS SHOWN.
- ALL DISTURBED AREAS WILL BE RE-VEGETATED AS OUTLINED ON FORM WW-9.
- MAINTAIN SEDIMENT BARRIERS AND DRAINAGE STRUCTURES.
- ALL ROAD GRADES <5% EXCEPT AS NOTED.
- LOCATION OF DRILL PIT MAY BE CHANGED BASED ON AS-BUILT CONSIDERATIONS.
- DRAWING NOT TO SCALE.

Office of Oil and Gas

WV Department of Environmental P0/31/2014

Page 1

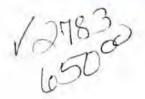






HG Energy, LLC

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



September 24, 2014

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

RE:

Elizabeth Fletcher No. 20

Ten Mile District, Harrison 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 a production 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

cc:

Frederick Fletcher – Certified Michael Roach - Certified Murray Coal – Certified Sam Ward – Inspector

RECEIVED
Office of Oil and Gas

OCT 0.2 7014