

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

June 17, 2013

WELL WORK PERMIT Secondary Recovery Well

This permit, API Well Number: 47-4303461, 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.

Operator's Well No: J.A. FOWLER NO. 114

Farm Name: MCCLURE, ANDY J. & REBECCA

James Martin

API Well Number: 47-4303461

Permit Type: Secondary Recovery Well

Date Issued: 06/17/2013

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 within 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 20 mil thickness synthetic liner.
- 5. No land application of pit fluids.

WW-3B 10/07



1) Date		April 24, 2013			
2) Operator's Well	No.	J	. A. Fowle	r No. 1	.14
3) API Well No.	47	i Li	043	-	
	State		County		Permit
4) UIC Permit No.		τ	JIC2R0430	DIAP	

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

District Duval 07 County Lin	tion (not storage) Waste Disposal
The image	Vatershed Porter Fork
	ncoln 43 Quadrangle Griffithsville 7.5' 38
Parkersburg, WV 26101 100	DESIGNATED AGENT: Mike Kirsch
9) OIL & GAS INSPECTOR TO BE NOTIFIED: Name Ralph Triplett	5260 Dupont Road
Name Ralph Triplett Address 5539 McClellan Hwy Branchland, WV 25506	Parkersburg, WV 26101
Address 5539 McClellan Hwy Branchland, WV 25506) DRILLING CONTRACTOR:
Branchland, WV 25506	Name
11) PROPOSED WELL WORK: Drill X Plug Off Old Formation Other Physical Change in Well (specifical	Address
Plug Off Old Formation Other Physical Change in Well (specifics) Geological target formation Berea Deptition Berea Deptition Approximate water strata depths: Fresh 300 15) Approximate coal seam depths: Fresh 300 16) Is coal being mined in the area? Virgin reservoir pressure in target formation: 18) Estimated reservoir fracture pressure: 19) MAXIMUM PROPOSED INJECTION OPERATIONS: Volume per house and other chemicals as needed to maintain water quality and improve oil and other chemicals as needed to maintain water quality and improve oil and other chemicals as needed to maintain water quality and improve oil and other chemicals as needed to maintain water quality and improve oil and other chemicals as needed to maintain water quality and improve oil and other chemicals as needed to maintain water quality and improve oil and other chemicals as needed to maintain water quality and improve oil and other chemicals as needed to maintain water quality and improve oil and other chemicals as needed to maintain water quality and improve oil and other chemicals as needed to maintain water quality and improve oil and other chemicals as needed to maintain water quality and improve oil and other chemicals as needed to maintain water quality and improve oil and other chemicals as needed to maintain water quality and improve oil and other chemicals as needed to maintain water quality and improve oil and other chemicals as needed to maintain water quality and improve oil and other chemicals as needed to maintain water quality and improve oil and other chemicals as needed to maintain water quality and improve oil and other chemicals as needed to maintain water quality and improve oil and other chemicals as needed to maintain water quality and improve oil and other chemicals as needed to maintain water quality and improve oil and other chemicals as needed to maintain water quality and improve oil and other chemicals as needed to maintain water quality and improve oil and other chemicals as needed to maintain water quality	per Redrill Stimulate X
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19) MAXIMUM PROPOSED INJECTION OPERATIONS: Volume per hore 20) DETAILED IDENTIFICATION OF MATERIALS TO BE INJECTED, INC and other chemicals as needed to maintain water quality and improve oil 1 21) FILTERS (IF ANY) Cartridge filters and/or coal bed filters 22) SPECIFICATION FOR CATHODIC PROTECTION AND OTHER CORRO 23) CASING AND TUBING PROGRAM CASING OR SPECIFICATIONS FOOTAGE TUBING TYPE Size Grade Weight New Used For Drilling Conductor Fresh Water 7" L.S. 17# X 450' Coal Intermediate Production 4 1/2" J-55 10.5# X 2508' Tubing 2 3/8" J-55 4.6# X 2200'	2,650 psig.
20) DETAILED IDENTIFICATION OF MATERIALS TO BE INJECTED, INC and other chemicals as needed to maintain water quality and improve oil 1 (21) FILTERS (IF ANY) Cartridge filters and/or coal bed filters (22) SPECIFICATION FOR CATHODIC PROTECTION AND OTHER CORRO (23) CASING AND TUBING PROGRAM CASING OR SPECIFICATIONS FOOTAGE (24) TUBING TYPE (25) Grade (26) Weight (26) New (26) Used (26) For Drilling (26) Coal (27) (27) (27) (27) (27) (27) (27) (27)	
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22) SPECIFICATION FOR CATHODIC PROTECTION AND OTHER CORRO 23) CASING AND TUBING PROGRAM CASING OR SPECIFICATIONS FOOTAGE TUBING TYPE Size Grade Weight New Used For Drilling Conductor	CLUDING ADDITIVES Fresh water, produced water, bactericides recovery.
22) SPECIFICATION FOR CATHODIC PROTECTION AND OTHER CORRO 23) CASING AND TUBING PROGRAM CASING OR SPECIFICATIONS FOOTAGE TUBING TYPE Size Grade Weight New Used For Drilling Conductor	
23) CASING AND TUBING PROGRAM CASING OR SPECIFICATIONS FOOTAGE TUBING TYPE Size Grade Weight New Used For Drilling Conductor Fresh Water 7" L.S. 17# X 450' Coal Intermediate Production 4 1/2" J-55 10.5# X 2508' Tubing 2 3/8" J-55 4.6# X 2200'	OSION CONTROL
CASING OR TUBING TYPE Size Grade Weight New Used For Drilling Conductor Fresh Water Coal Intermediate Production 4 1/2" J-55 10.5# X 2508' Tubing 2 3/8" J-55 4.6# X 2200'	ж .
TUBING TYPE Size Grade Weight New Used For Drilling Conductor	
TUBING TYPE Size Grade Weight New Used For Drilling Conductor	INTERVALS CEMENT FILLUP PACKERS
Conductor	Left in Well OR SACKS (CU. FT.)
Coal Intermediate Production . 4 1/2" J-55 10.5# X 2508' Tubing 2 3/8" J-55 4.6# X 2200'	Kinds
Intermediate	450' Cement to Surface Tension
Production 4 1/2" J-55 10.5# X 2508' Pubing 2 3/8" J-55 4.6# X 2200'	Sizes
Tubing 2 3/8" J-55 4.6# X 2200'	2.375" x 4.5"
	2508' 150 sacks Depths Set
	2200' 2100'
Liners .	Perforations
	Top Bottom
24) APPLICANTS OPERATING RIGHTS were acquired from Free	eehold Company Received
by Deed Lease X Other Contract	
Lincoln County Clerk's Office in	
County Olerk's Office in	Book 35 at Page 225 MAY 9 2013

WW-3A 10/07



1) Date:		April 24, 2	013	
2) Operator's We	ll No.	J. A. Fowle	er No.	114
3) API Well No.	47	043	are.	
	State	County		Permit
		TITOODO	CALD	

4) UIC Permit No.

UIC2R04301AP

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

5) Surface Owner(s	To Be Served	7 (a)	Coal Operator	
(a) Name	Andy & Rebecca McClure		Name	NA
Address	109 Coon Whistle Hollow		Address	
-	Yawkey, WV 25573			
(b) Name		7 (b)	Coal Owner(s)	With Declaration Of Record
Address			Name	NA
			Address	
(c) Name				
Address			Name	
			Address	
_			-	
6) Inspector	Ralph Triplett	7(c)	Coal Lessee Wi	th Declaration Of Record
Address	5539 McClellan Hwy			NA
_	Branchland, WV 25506			
Telephone	389-0350		-	
O THE DEDCO	N(S) NAMED ABOVE: You should have	Moss	irod thin fo	rm and the following documents:
HE REASON YOU HICH ARE SUMI RE NOT REQUIR ake notice that under pplication and accommy ironmental Protective (W-6. Copies of this formation)	If for the first injection or waste disposal is JRECEIVED THESE DOCUMENTS IS THAT YOU MARIZED IN THE "INSTRUCTIONS" ON FORM VED TO TAKE ANY ACTION AT ALL. The Chapter 22-6 of the West Virginia Code, the undersigned apanying documents for a Well Work Permit with the Chie tion, with respect to a well at the location described on the Notice, the Application, the plat, and the Construction and ared by hand to the person(s) named above (or by publication the Chief.	U HAV WW-3(I well oper of the eattach	A) DESIGNA' perator propose Office of Oil an aed Application mation Plan hav	EGARDING THE APPLICATION FED TO YOU. HOWEVER YOU s to file or has filed this Notice and d Gas, West Virginia Department of and depicted on the attached Form e been mailed by registered or
	The person signing this document shall make the	followi	ing certificatio	n:
cortify under namels	y of law that I have personally examined and am	Well	l Operator	HG Energy, LLC
	mation submitted in this document and all attachments		lress	5260 Dupont Road
	inquiry of those individuals immediately responsible			Parkersburg, WV 26101
r obtaining the infor	mation, I believe that the information is true, accurate			
nd complete. I am aware that there are significant penalties for submitting		By:		Diane C. White
lse information, incl	uding the possibility of fine and imprisonment."	Its:		Accountant
il and Gas Privacy N	lotice	Sign	nature	Deceived

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 course of business or as needed to camply 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

WW-2B1

Well No. J	J. A.	Fowler	No.	114
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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.

If no water well or spring is located within 1000 feet, the Chief may require the operator to sample and analyze water from a water well or spring within 2000 feet of the proposed well site.

Be advised, you have the right to sample and analyze any water supply at your own expense.

The laboratory used by the operator to analyze the samples will be approved by the Chief. The operator named below has decided to use the following laboratory to analyze the water samples:

Contractor Nam	e Sturm Environmental Services
Well operator's	private 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 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.

Special Note:

Received

Water sampling was completed through out the Griffithsville area for the UIC permit review late in 2012. Per Jamie Peterson, WVDEP, the timing of that large UIC sampling was sufficent for this Griffithsville project MAY 9 2013

Form WW-9 Rev. 10/94

	Page	3	of	3
API N	Tumber 47-	043		
Operator's Well No.	J. A. Fo	wler N	To. 114	

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	HG Energ	y, LLC			OP Code	494497948
Watershed	Porter For	k .		Quadrangl	e Griffitl	isville 7.5'
Elevation	917'	County	Lincoln	Distric	t D	luval
Description o	f anticipated Pit Waste:	Fluids encounter	red in drilling shal	low well.		4
Do you antici	pate more than 5,000 bbls	of water to complete	e the proposed well v	worl Yes	No	X
Will a synthe	tic liner be used in pit?	Yes	If so, what mil.?	10 Mil. 20	MIC	_
Proposed Disp	Reuse (at A	cation nd Injection (UIC Per				
	um anticipated for this we		the same of the sa	Air, Fresh Water		
A superior of the state of the	- If oilbased, what type?	시대 교육이 교육하게 많으라는 당시하다	, etc. NA			
Additives to b	disposal method? Leave it		1 00.11			
	- If left in pit and plan to				NT 41 11	
	- Landfill or offsite name/	and the second s	n win be used: Cem	ient, fime, sawdust	Native soil	, cement, lime
applicable law this applicatio for obtaining t penalties for s Company Of	sions of the permit are en y or regulation can lead to I certify under penalty of I on form and all attachmen the information, I believe submitting false information ficial Signature ficial (Typed Name)	enforcement action. aw that I have perso ts thereto and that, I that the information on, including the pos	nally examined and based on my inquiry is true, accurate and	am familiar with the of those individuals demplete. I am aw prisonment.	e information	a submitted on responsible
Subscribed a	nd sworn before me this	May (2)	201 X	1 2013	Notary Pub	ceived
Form WW-9		. 00, .0			MAY	0 0010
_ Jam. II II - J	WEST		AL SEAL		MAI	9 2013

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
TINA L. PETHTEL
HG Energy, LLC
5260 Dupont Road
Parkersburg, West Virginia 26101
My Commission Expires Nov. 12, 2018

Office of Oil and Gas
WV Dept. of Environmental Profie 1/2013

WW9_Rack

Property Boundary

Legend

Road		Spring	$\stackrel{\mathcal{T}}{\longrightarrow}$	
Existing Fence	xx	Wet Spot	0	
Planned Fence	_//_	Drain Pipe	(12)	
		Waterway	C> C> C> C>	
Stream	1	Cross Drain	THE THE THE THE	•
Open Ditch	400000	Filter Strip	XXXXXXXXXX	
Rock	September 1	Pit: Cut Walls	E. C.	
•		Pic Cut wans		•
North	N	Pit: Compacted	- X	
Buildings .	ELEN .	Fill Walls	your way	
Water Wells	w w	Area of Land		
Drill Site	⊕	Application of Pit Waste	(1 1 4 1 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3]
Ditti pro-				
• 	Are	a T		
	•	1.0 Ac Pr	evegetation pH	
roposed Revegetation Treat	ment: Acres Disturbed			
	Approx.	1.0 Ac	•	
		orrect to pH 6.5		
Line	2 Tons/Acre or Co	011000100	lbs. Minimum)	
	lizer (10-20-20 of Equivalent)			
Mule				
•	SEED MI	XTURES		
4	T (I contion)		Area II (Road)	•
	rea I (Location) Lbs/Ac.	Seed Type	Lbs/Ac.	
Seed Type Tall Fescue	40	Tall Fescue Ladino Clover		
Ladino Clover	5	TRUMO CIOVE		•
			Received	_
			MAY 9 2013	
Attach: Drawing(s) of road, location	n, pit and proposed area for land application	on	0 20.0	
.Photocopied section of inve	olved 7.5' topographic sheet.		Office of Oil and Gas	
	0000000		WV Dept. of Environmental Protection	
Plan approved by:	Pagel D. Tripedl)			·····
Comments:				
	A Company of the Comp		. Date: May 2, 2013	
Title: 📐	istrict Suspections			
Field Reviewed?	(V) Yes	() No $V = 06/2$	1/2013

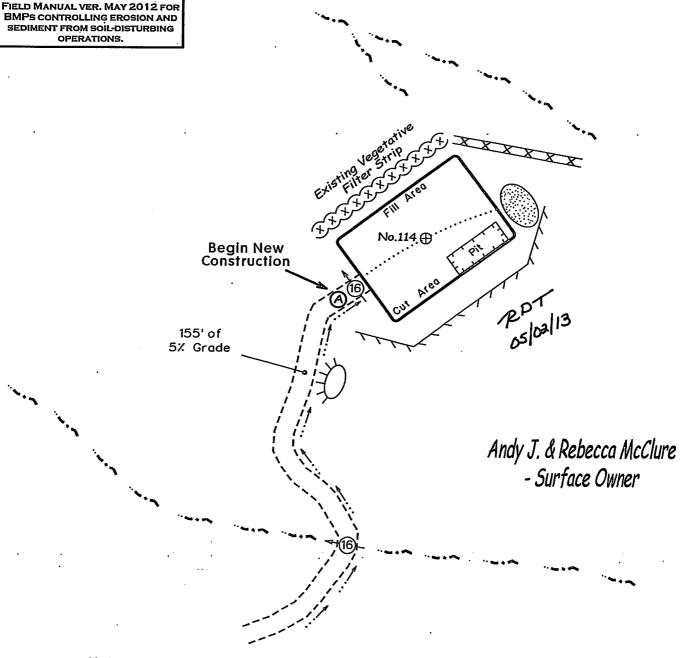
PAGE 1

Reclamation Plan For:

J.A. Fowler No. 114

NOTE

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



- Notes:
- Requested permit is for drilling of new well.
- Portions of Access road from St. Rt. 3 to Pt. Ais existing. Structures will be maintained or upgraded as needed.
- 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.

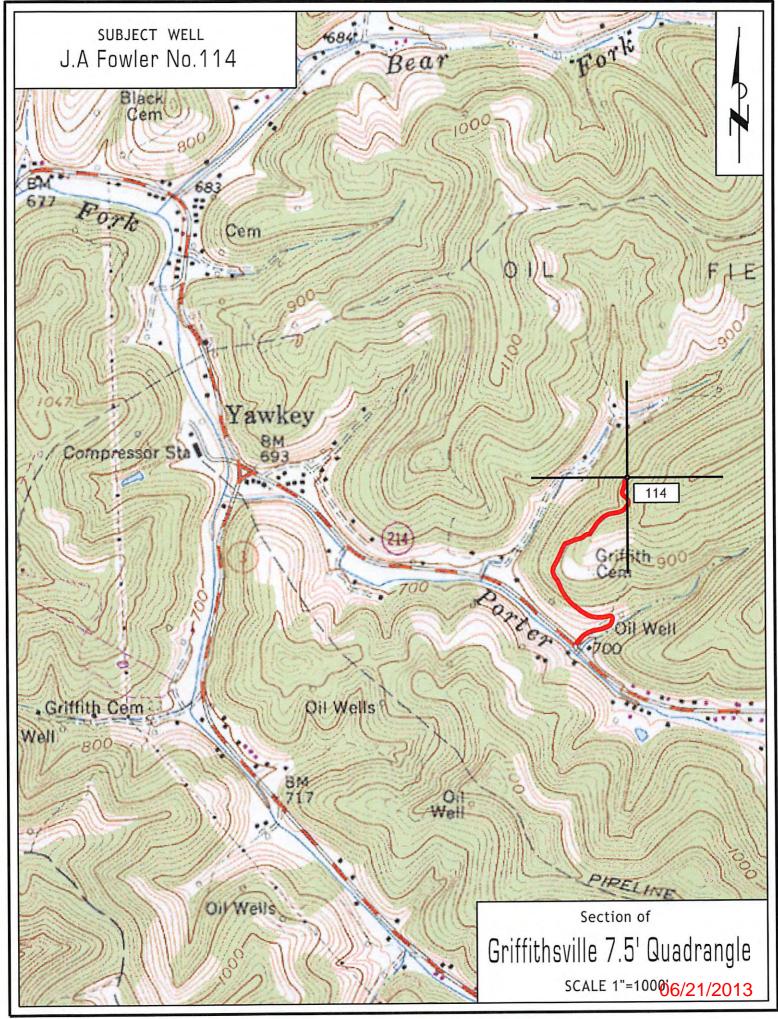
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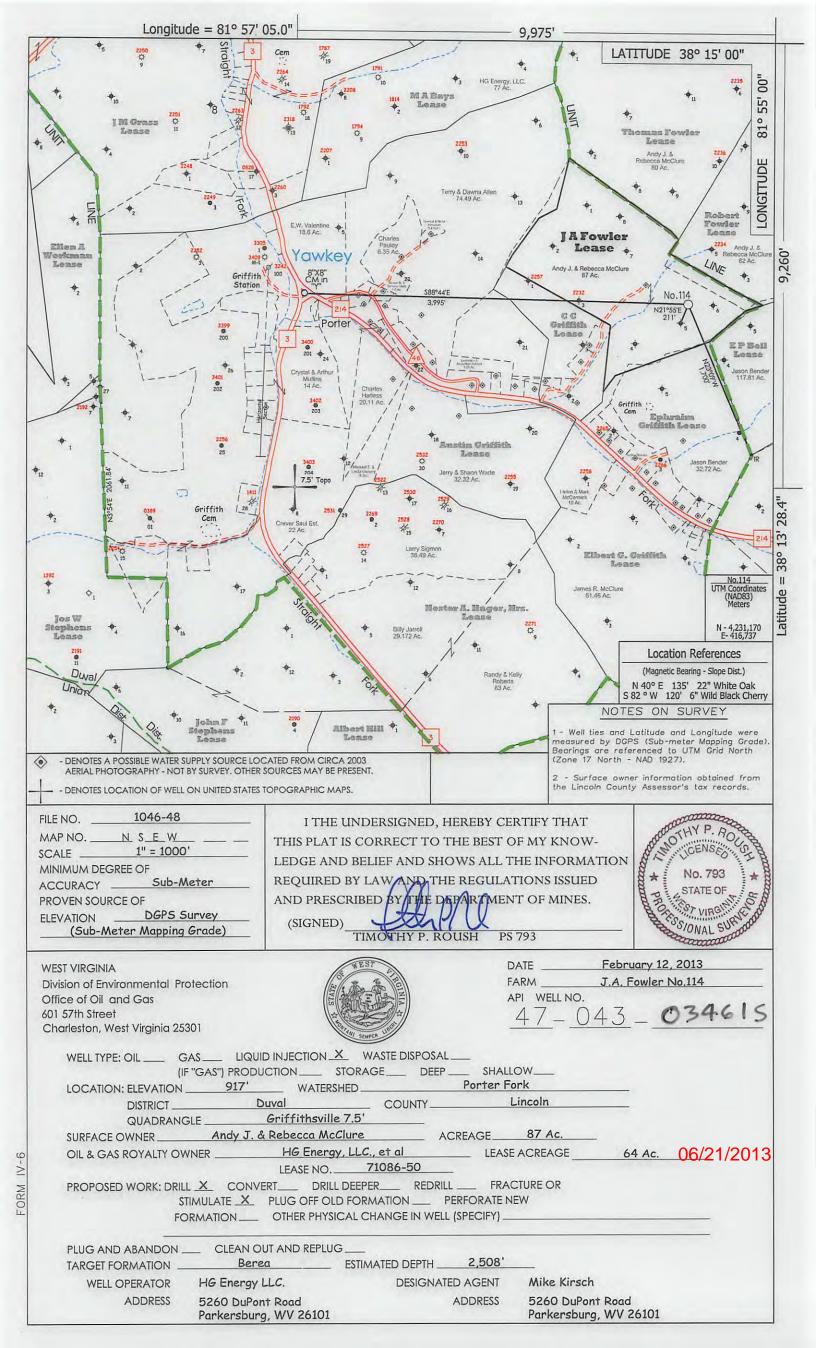
MAY 9 2013

Office of Oil and Gas

WV Dept. of Environmental Protection 06/21/2013

Note: Drawing not to Scale







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

965000

April 24, 2013

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

RE:

J. A. Fowler No. 114

Duval District, Lincoln County

West Virginia

Diane C White

Dear Mr. Peterson:

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 liquid injection well. Also enclosed is our check in the amount of \$650.00 to cover the associated permit fees.

Very truly yours,

Diane C. White

Enclosures

cc:

Andy & Rebecca McClure - Certified

Ralph Triplett - Inspector

Received

MAY 9 2013

