

### 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

August 28, 2013

#### WELL WORK PERMIT

### Secondary Recovery Well

This permit, API Well Number: 47-10301747, 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: L. E. DULANEY 201

Farm Name: GIFFORD, THOMAS & DAVID

API Well Number: 47-10301747

Permit Type: Secondary Recovery Well

Date Issued: 08/28/2013

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. Failure to adhere to the specified permit conditions may result in enforcement action.

#### **CONDITIONS**

- 1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
- 2. 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.
- 3. Well work activities shall not constitute a hazard to the safety of persons.

WW-3B 10/07



1) Date		J	une 25, 20	13	
2) Operator's Well	No.	I	. E. Dular	ney 20	)1
3) API Well No.	47	_	103		1747
_	State		County		Permit
4) UIC Permit No.		Į	JIC2R1030	04AP	

# 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

		Diquie	l Injection			Gas Injection		.50/	Waste D	aposai		
LOCATIO	ON:	Elevation					tershed		Fork of Fishing			
	District		Grant	04	Coun	tyWetz	cel (o	3	Quadrangle	Pir	ne Grove 7.5	548
WELL O	PERATOR:	HG Ener	gy, LLC		49449794	8 8) DI	ESIGNATE	ED AGENT:	Mil	e Kirsc	:h	
			pont Road								nt Road	
		Parkersb	ourg, WV 2	26101		_			Par	kersbu	rg, WV 2610	)1
OIL & G	AS INSPECTO			D:		10) I	DRILLING	CONTRAC	TOR:			
		Derek Ha				_			To Be Determine	d Upon I	Permit Appro	val
	Address	PO Box 8		170		_		Address				
			le, WV 26						-		_	
) PROPOS	SED WELL WO	ORK:	Drill		11.77	Drill Deeper		Redrill		mulate		37
					ld Formatio	on n Well (specify)		New Forn	ation		Convert	X
) Geologica	al target form	ation	Other	Gordo		Dept	-	3,122	Ft. (Top) to		3,134 Ft	. (Bottom)
	ed depth of con		ell (or actu	al dent	h of existin	g well)	-	3321'	Ft.			
	nate water str			Fresh		476	Ft.	5521	Salt	1,44	10 Ft	
			s:	Fresn			-		Sait	1,44	FU	Dar
) Approxin	nate coal sean	depths:			103	35	_Ft.					10-2
) Is coal be	eing mined in	the area?			Yes	3	X	No				
) Virgin re	eservoir pressu	ire in targ	et formati	on:		60		psig.	Source		Estimated	
	ed reservoir fra	acture pre	ssure:			1200		psig.				
B) Estimate				ERATIO	ONS: V		e 25 bbl/l		Bottom Hole P	ressure	240	0 psi
B) Estimate  MAXIMU	JM PROPOSE	D INJEC	TION OPI			olume per hou		hr	Bottom Hole P			0 psi
Estimate  MAXIMU  DETAILI	JM PROPOSE ED IDENTIFI	D INJEC	TION OPE	RIALS	TO BE INJ		UDING A	hr				
B) Estimate D) MAXIMU DETAILI and other	JM PROPOSE ED IDENTIFI r chemicals as	D INJEC	TION OPF OF MATE maintain	RIALS water	TO BE INJ quality and	olume per hour ECTED, INCL l improve oil re	UDING A	hr				
B) Estimate D) MAXIMU D) DETAILI and other	UM PROPOSE ED IDENTIFI r chemicals as S (IF ANY)	CATION (	TION OPE OF MATE maintain Cartridge	RIALS water	TO BE INJ quality and and/or coal	olume per hour JECTED, INCL I improve oil re I bed filters	UDING A	DDITIVES				
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Farm name:

Able, Paul etal

# State of West Virginia Division of Environmental Protection Section of Oil and Gas

103017475

## Well Operator's Report of Well Work

Operator Well No.: L.E. Dulaney #201

LOCATION:	Elevation:	1,276.00	Quadrangle:	Pine Grove		
	District: Latitude: Longitude:	Grant 14,150 Feet south of 600 Feet west of	County: Wet 39 Deg 37 80 Deg 40	Min 30	Sec.	
Company:	P.O. BOX 5:	PRODUCTS COMPANY 519 V 26105-5519	Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Agent:	PHILIP S. O	NDRUSEK	Size			
Inspector: Permit Issued: Well work Con	Randal Mick	8/11/97 10/14/97				
Well work Con Verbal plugging permission gran	g	11/21/97	8-5/8"	1150'	1150'	495 Sacks
Rotary X Total Depth (fe Fresh water dep	_Cable et)	Rig 3321' NA	4 1/2"	3218.45'	3218.45'	140 Sacks
Salt water depti		NA				
Is coal being mi Coal Depths (ft		N) NA N			N	
OPEN FLOW I	DATA	,				
Produc	ing formation	Gordon		Pay zone de	enth (ft)	3,122
Gas:	Initial open fl		ICF/d Oil: Initia	al open flow	*	
	Final open flo	w * M	ICF/d Fina	l open flow	*	Bbl/d
- 5.52		n flow between initial and			* Hours	
Static 1	ock pressure	* ps	sig (surface pres	ssure)	after	Hours
Second	l producing for	mation		Pay zone de	enth (ft)	
Gas:	Initial open fl		CF/d Oil: Initia	al open flow	_	Bbl/d
	Final open flo			l open flow		Bbl/d
		n flow between initial and			Hours	
Static r	ock pressure	ps	sig (surface pres	ssure)	after	Hours
		I, PUT THE FOLLOWING: 1) I CHANGE, ETC. 2) THE WELL FORMATIONS, INCLUDING (	LOG WHICH IS A	SYSTEMATI ERED BY THI	E WELLBORE	
		For: PENNZO By: Date:	DIL PRODUCTS 3//6,	COMPAN 28	YC aur	5 2013
					WV Don't of Envir	Oil and Gas onmental Fromgout

WW-3A 10/07

5) Surface Owner(s) To Be Served



1) Date:		June 25, 2	2013		
2) Operator's	Well No.	L. E. Dula	aney 201		
3) API Well I	No. 47	103		1747	
	State	County		Permit	
4) UIC Perm	it No.	UIC2R10	304AP		

# 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 (a) Coal Operator

(c) Name Address  (c) Name Address  6) Inspector Derek Haught PO Box 85 Smithville, WV 26178 Telephone 206-7613  (1) The Application for a Liquid Injection or Waste Disposal Well sets out the parties involved in the drilling or other work; (2) The plat (surveyor's map) showing the well location on Form	Name Address Name Name Name Name Name Name Name Name	vork is only to plug a well),
New Martinsville, WV 26155  (b) Name Address  (c) Name Address  (d) Inspector Address  Derek Haught PO Box 85 Smithville, WV 26178 Telephone  206-7613  CO THE PERSON(S) NAMED ABOVE: You should have results to the parties involved in the drilling or other work; (2) The plat (surveyor's map) showing the well location on Form	Name Address Name Name Name Name Name Name Name Name	NA  With Declaration Of Record CONSOL - Mid Ohio Valley Operation 6126 Energy Road Moundsville, WV 26041  form and the following documents: t on Form WW-3(B), which  work is only to plug a well),
(c) Name Address  (c) Name Address  6) Inspector Derek Haught PO Box 85 Smithville, WV 26178 Telephone 206-7613  (1) The Application for a Liquid Injection or Waste Disposal Well sets out the parties involved in the drilling or other work; (2) The plat (surveyor's map) showing the well location on Form	Name Address Name Name Name Name Name Name Name Name	NA  With Declaration Of Record CONSOL - Mid Ohio Valley Operation 6126 Energy Road Moundsville, WV 26041  form and the following documents: t on Form WW-3(B), which  work is only to plug a well),
(c) Name Address  6) Inspector Derek Haught PO Box 85 Smithville, WV 26178 Telephone 206-7613  (1) The Application for a Liquid Injection or Waste Disposal Welsets out the parties involved in the drilling or other work; (2) The plat (surveyor's map) showing the well location on Form	Address  Name Address  (c) Coal Lessee  ecceived this I Work Permi  WW-6; and ess the well w	With Declaration Of Record CONSOL - Mid Ohio Valley Operation 6126 Energy Road Moundsville, WV 26041  form and the following documents: t on Form WW-3(B), which  work is only to plug a well),
Address    Derek Haught   PO Box 85   Smithville, WV 26178     Telephone   206-7613	Name Address C(c) Coal Lessee Received this WW-6; and less the well w	With Declaration Of Record CONSOL - Mid Ohio Valley Operation 6126 Energy Road Moundsville, WV 26041  form and the following documents: at on Form WW-3(B), which  work is only to plug a well),
Address    Derek Haught   PO Box 85   Smithville, WV 26178     Telephone   206-7613	Address  7(c) Coal Lessee  eceived this I Work Permi  WW-6; and ess the well w	With Declaration Of Record CONSOL - Mid Ohio Valley Operation 6126 Energy Road Moundsville, WV 26041  form and the following documents: at on Form WW-3(B), which  work is only to plug a well),
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Address PO Box 85 Smithville, WV 26178 Telephone 206-7613  TO THE PERSON(S) NAMED ABOVE: You should have result of the Application for a Liquid Injection or Waste Disposal Well sets out the parties involved in the drilling or other work;  (2) The plat (surveyor's map) showing the well location on Form	cceived this WW-6; and ess the well w	CONSOL - Mid Ohio Valley Operati 6126 Energy Road Moundsville, WV 26041  form and the following documents: at on Form WW-3(B), which  work is only to plug a well),
Address PO Box 85 Smithville, WV 26178 Telephone 206-7613  TO THE PERSON(S) NAMED ABOVE: You should have result of the Application for a Liquid Injection or Waste Disposal Well sets out the parties involved in the drilling or other work;  (2) The plat (surveyor's map) showing the well location on Form	eceived this I Work Permi WW-6; and ess the well w	CONSOL - Mid Ohio Valley Operati 6126 Energy Road Moundsville, WV 26041  form and the following documents: at on Form WW-3(B), which  work is only to plug a well),
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Smithville, WV 26178  206-7613  TO THE PERSON(S) NAMED ABOVE: You should have result in the Application for a Liquid Injection or Waste Disposal Well sets out the parties involved in the drilling or other work;  (2) The plat (surveyor's map) showing the well location on Form	l Work Permi WW-6; and ess the well w	6126 Energy Road Moundsville, WV 26041  form and the following documents: at on Form WW-3(B), which  work is only to plug a well),
Telephone 206-7613  TO THE PERSON(S) NAMED ABOVE: You should have recommended in the Application for a Liquid Injection or Waste Disposal Well sets out the parties involved in the drilling or other work;  (2) The plat (surveyor's map) showing the well location on Form	l Work Permi WW-6; and ess the well w	Moundsville, WV 26041  form and the following documents:  t on Form WW-3(B), which  work is only to plug a well),
(1) The Application for a Liquid Injection or Waste Disposal Wel sets out the parties involved in the drilling or other work; (2) The plat (surveyor's map) showing the well location on Form	l Work Permi WW-6; and ess the well w	form and the following documents: t on Form WW-3(B), which work is only to plug a well),
<ol> <li>The Application for a Liquid Injection or Waste Disposal Welsets out the parties involved in the drilling or other work;</li> <li>The plat (surveyor's map) showing the well location on Form</li> </ol>	l Work Permi WW-6; and ess the well w	t on Form WW-3(B), which ork is only to plug a well),
<ol> <li>The Application for a Liquid Injection or Waste Disposal Welsets out the parties involved in the drilling or other work;</li> <li>The plat (surveyor's map) showing the well location on Form</li> </ol>	WW-6; and ess the well w	vork is only to plug a well),
sets out the parties involved in the drilling or other work; (2) The plat (surveyor's map) showing the well location on Form	WW-6; and ess the well w	vork is only to plug a well),
(2) The plat (surveyor's map) showing the well location on Form	ess the well w	vork is only to plug a well),
(2) The plat (surveyor's map) showing the well location on Form	ess the well w	ork is only to plug a well),
	ess the well w	ork is only to plug a well),
(3) The Construction and Reclamation Plan on Form WW-9 (unl		0 (1 ) 1
which sets out the plan for erosion and sediment control and	for reclamati	on for the site and access road.
The date proposed for the first injection or waste disposal is	NA	
THE REASON YOU RECEIVED THESE DOCUMENTS IS THAT YOU		S REGARDING THE APPLICATION
WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON FORM W	V-3(A) DESIG	NATED TO YOU, HOWEVER YOU
ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL.	( O(II) BEEIG	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	L	
ake notice that under Chapter 22-6 of the West Virginia Code, the undersigned w	ell operator prop	oses to file or has filed this Notice and
Application and accompanying documents for a Well Work Permit with the Chief of	of the Office of Oi	l and Gas, West Virginia Department of
Environmental Protection, with respect to a well at the location described on the a	ttached Applicat	ion and depicted on the attached Form
VW-6. Copies of this Notice, the Application, the plat, and the Construction and R	eclamation Plan	have been mailed by registered or
ertified mail or delivered by hand to the person(s) named above (or by publication	in certain circu	nstances) on or before the day of the
nailing or delivery to the Chief.		
AND THE RESERVE TO A PARTY OF THE PARTY OF T		
The person signing this document shall make the fo	llowing certific	ation:
I certify under penalty of law that I have personally examined and am	Well Operator	HG Energy, LLC
amiliar with the information submitted in this document and all attachments	Address	5260 Dupont Road
and that, based on my inquiry of those individuals immediately responsible		Parkersburg, WV 26101
or obtaining the information, I believe that the information is true, accurate		
and complete. I am aware that there are significant penalties for submitting	By:	Diane C. White
alse information, including the possibility of fine and imprisonment."	Its:	Accountant
	C:	Diano Ct. Shet
	Signature	#ECCIVEO —
Oil and Gas Privacy Notice		110001100
The Office of Oil and Gas processes your personal information, such as name, add	ress and phone n	umber, as a part of our regulatory duties.
Your personal information may be disclosed to other State agencies or third partie or regulatory requirements, including Freedom of Information Act requests. Our c	s in the course o	f business or as needed to comply with statutory

have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at:

Office of Oil and Gas WV Dept. of Environmental Protection

depprivacyofficer@wv.gov

Form WW-9 Rev. 10/94

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API Ni	ımber 47-	103		1747
Operator's Well No.	L. E. I	Dulane	y 201	

# 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							4944	
Watershed _	Nort	th Fork of Fis	hing Creek	Σ.		Quadrangle	Pin	e Grove 7.	5'
Elevation	1276'		unty	Wetzel		District		Grant	
Description of a	anticipated Pit Wa	aste: Fluid	ls encounte	red in <del>stimulati</del>	ng existin	g well.			
Do you anticipa	ate more than 5,00	00 bbls of wate	r to complet	e the proposed we	ell work	Yes	No	X	
Will a synthetic	c liner be used in	pit?	Yes	If so, what mil.?	20 N	Mil.			
Proposed Dispo	sal Method For T	reated Pit Was	stes:						
	X Land	Application							
_	Unde	erground Inject	tion (UIC Pe	rmit Number					
_	100	e (at API Num	-						
-				WW-9 for disposa	al location)				
-	Othe								
				oil based, etc.	1	JA			
	If oilbased, what t		c, petroleum	, etc.					
Additives to be		er, soap, KCI	1011	1 00 11					
	isposal method? I				1 1	1 1	NT I	9	
	If left in pit and pl	an to solidity.				e, sawdust	Native s	oil, sawdu	st, lime
I	Landfill or offsite	name/permit n	ree to the te	rms and condition	ns of the GE	ENERAL WA	TER POL	LUTION P	ERMIT
I dissued on Augusthat the provision applicable law of this application for obtaining the penalties for sul	Landfill or offsite certify that I unde st 1, 2005, by the ons of the permit or regulation can l certify under pena form and all atta e information, I b	erstand and ago Office of Oil are are enforceable ead to enforce elty of law that chiments there elieve that the	ree to the termined Gas of the by law. Vicement action.  I have personant that, information doing the possible conditions the	rms and condition West Virginia De plations of any ter	ns of the GE epartment on or condit and am fam tiry of those and comple imprisonme	ENERAL WA' of Environme tion of the get iliar with the individuals tee. I am awa	TER POL ental Prote neral pern informat immediate	LUTION Plaction. I undicate and/or of the submitted responsion submitted responsions.	ERMIT derstand ther ted on
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## Legend

Property Boundary Road Bxisting Fence Planned Fence Stream Open Ditch Rock North Buildings Water Wells		-X	Diversion Spring Wet Spot Drain Pipe Waterway Cross Drain Filter Strip Pit: Cut Walls Pit: Compacted Fill Walls Area of Land Application of Pit Waste	12 -> (-> (-> (-> (-> (-> (-> (-> (-> (->
Drill Site	$\oplus$			
Proposed Revegetation Treatm Lime	ent: Acres Disturbed  2 zer (10-20-20 or Equive	Area Approx. Area Approx.  Tons/Acre or Co	0.2 Ac. Pr 0.1 Ac. Prect to pH 6.5	revegetation pH
3 Gylah	<b>.</b> .	2 Tons/Ac	re	

### SEED MIXTURES

		Area II	(Road)
Seed Type Tall Fescue Ladino Clover	Lbs/Ac. 40 5	Seed Type Tall Fescue Ladino Clover	Lbs/Ac. 40 5

Attach:

Drawing(s) of road, location, pit and proposed area for land application

Straw

Photocopied section of involved 7.5' topographic sheet.

Mulch

Plan approved by:	
Comments:	
Title: Bil + Ger Inspector	Date: 6-71-13
Field Reviewed? ( / Yes	( ) No

Received

5 2013 JUL



