

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 25, 2013

WELL WORK PERMIT Secondary Recovery Well

This permit, API Well Number: 47-10301633, 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: M. J. REILLY O-19

Farm Name: WV PUBLIC LANDS

API Well Number: 47-10301633

Permit Type: Secondary Recovery Well

Date Issued: 10/25/2013

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. 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 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 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. If well work related activities require the use of water obtained by withdrawals from waters of this state in amounts that exceed two hundred ten thousand gallons during any thirty day period, the operator is required to consult, and adhere to, the guidance provided by DEP's Water Withdrawal Guidance Tool prior to any water withdrawals.

WW-3B 10/07



1) Date	August 13, 2013					
2) Operator's Well	Well No. MJ Re:			eilly O-19		
3) API Well No.	47	-	103	4	1633	
	State		County		Permit	
4) UIC Permit No.		Ţ	JIC2R0950	1AP		

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

WELL OPERATOR:	5)	WELL TYPE:		Liquid	l Injection	X	T	Gas Injection	n (not	storag	e)	Waste 1	Disposal	İ.	
District Green 55 County Wetzel 1 3 Quadrangle Centerpoint 7.6" 2.5	6)	LOCATION:		Elevation	1438			Wa	tersh	ed	Pinev	Fork			
			District	t	Green	05	Cour						Cer	nterpoint 7.5"	286
Section Sect	7)	WELL OPERA	TOR:	HG Ener	gy, LLC		49449794	18 8) DI	ESIG	NATED	AGENT	': Mi	ke Kirso	ch	
OIL & GAS INSPECTOR TO BE NOTIFIED: Name Name Derik Haught Name Address Smithfield, WV 26178 Address Smithfield, WV 26178 PROPOSED WELL WORK: Drill Drill Deeper Redrill Stimulate X Tonor Other Physical Change in Well (specify) Proposed Other Physical Change in Well (specify) Other Ph													60 Dupo	ont Road	-
Name				Parkersb	ourg, WV	26101		<u> </u>				Pa	rkersbu	rg, WV 26101	
Address F.O. Box S Smithfield, WV 20178 Drill Deeper Red-rill Plug Off Old Formation Other Physical Change in Well (specify) Perforate New Formation Other Physical Change in Well (specify) Perforate New Formation Other Physical Change in Well (specify) Perforate New Formation Other Physical Change in Well (specify) Perforate New Formation Other Physical Change in Well (specify) Perforate New Formation Other Physical Change in Well (specify) Perforate New Formation Other Physical Change in Well (specify) Perforate New Formation Other Physical Change in Well (specify) Perforate New Formation Other Physical Change in Well (specify) Perforate New Formation Other Physical Change in Well (specify) Perforate New Formation Other Physical Change in Well (specify) Perforate New Formation Other New	9)	OIL & GAS IN	SPECT	OR TO BE	NOTIFIE	ED:		10) I	DRILI	LING C	ONTRA	CTOR:			
Smithfield, WV 26178															
PROPOSED WELL WORK:			Address			170					Addres	S			
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Other Physical Change in Well (specify) S494 Ft. (Top) to 3,534 Ft. (Bottom)	11)	PROPOSED W	ELL W	ORK:			ld Formati			fanata N			imulate		
13 Estimated depth of completed well (or actual depth of existing well) 3656' Ft. 5										iorate 1	New Fori	nation		Convert	
14 Approximate water strata depths: Fresh 618 Ft. Salt 1,645 Ft. 1,545 Ft. 1,54	12)	Geological targ	et forma	ation		Gordo	n	Dept	h		3,494	Ft. (Top) to		3,534 Ft.	(Bottom)
15	13)	Estimated dep	th of con	npleted we	ell (or actu	al dept	h of existin	g well)			3656'	Ft.			
16) Is coal being mined in the area? Yes X No Yes X No Source Estimated 17.400 psig. Source Estimated 18) Estimated reservoir pressure in target formation: 19 MAXIMUM PROPOSED INJECTION OPERATIONS: Volume per hour 25 bbl Bottom Hole Pressure 2,332 psi Presh water, produced water, bactericides and other chemicals as needed to maintain water quality and improve oil recovery. 21) FILTERS (IF ANY) Cartridge filters and/or coal bed filters SPECIFICATION FOR CATHODIC PROTECTION AND OTHER CORROSION CONTROL 23) CASING AND TUBING PROGRAM CASING OR SPECIFICATIONS FOOTAGE INTERVALS CEMENT FILLUP PACKERS TUBING TYPE Size Grade Weight New Used For Drilling Left in Well OR SACKS (CU. FT.) Conductor Fresh Water 8 5/8" Les & St&c 20# X 711' 711' Firsh water, produced water, bactericides and/or coal bed filters Coal Intermediate Production 4 1/2" J-55 10.5# X 3566' 3566' Size Firsh water Top Bottom Top Bottom Top Bottom Top Bottom FOOTAGE INTERVALS CEMENT FILLUP PACKERS Tubing 2 3/8" J-55 4.6# X 3400' 3400' 3400' 3400' 3400' 3400' 3400' 3400' 3400' 3400' 3400' 3400' APPLICANTS OPERATING RIGHTS were acquired from Bottom W Deed APPLICANTS OPERATING RIGHTS were acquired from Bottom Dated September 23, 1897 Of record in the	14)	Approximate w	ater str	ata depths	3:	Fresh		618	Ft.			Salt	1,64	45 Ft.	
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Coal	Cond	luctor												Kinds	
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		1 1 1 1 1		Wetzel	- 115	County	Clerk's O	ffice in	Leas	se			Page	4月/25/	2013

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

Well Operator's Report of Well Work

	110	ii operacor b m	Pour ou .						
Farm name:	WVA. PUBLI	C LANDS	Operator	Well No.: M	I.J.REILLY	7 0-19			
LOCATION:	Elevation:	1,438.00 Quad	cangle: CI	ENTER POINT					
	District: Latitude: Longitude	GREEN 3550 Feet Sout 1150 Feet West	h of 39	ounty: WETZE Deg. 30Min. Deg. 40 Mir	Sec.	•			
P. VIE	INZOIL PRODU O. BOX 5519 INNA, WV 26	105-5519	َ &	Used in	l	Fill Up			
Inspector: Permit Issu Well work (RANDAL MICK ed: Commenced:	05/25/94 08/28/94	Size 8-5/8	 710.85 	710.85	surface 290 sks. 			
Verbal Plug Permission Rotary X Total Depth	Completed: gging granted on: _ Cable _ (feet) r depths (ft	Rig 3656	4-1/2	3566'	3566'	 300 sks. 			
Is coal be	depths (ft) ing mined ir s (ft):	n area (Y/N)? N	 		 	 			
Coal Depths (ft): N/A OPEN FLOW DATA * Water Injection Well Producing formation Gordon Pay zone depth (ft)3494-3534 Gas: Initial open flow * MCF/d Oil: Initial open flow * Bbl/d Final open flow * MCF/d Final open flow * Bbl/d Time of open flow between initial and final tests Hours Static rock Pressure psig (surface pressure) after Hours									
Gas:	Initial oper Final open	formation n flow MCF flow MCF n flow between s sure ps:	F/d Oil: I F/d I Initial an	Pay zone Initial oper Final open f nd final tes ce pressure	lilow flow sts	Bbl/eBbl/eHour			
INTERVALS,	FRACTURING	S FORM PUT THE OR STIMULATING EMATIC DETAILED TERED BY THE WE	GEOLOGI	AL CHANGE	DIC. 4/				
		For: PENNZO	IL/PRODUC	TS_COMPANY					

WW-3A 10/07



1) Date:		August 13	, 2013		
2) Operator's We	ll No.	MJ Reilly	O-19		
3) API Well No.	47	103	-	1633	
	State	County		Permit	
4) UIC Permit N	0.	UIC2R09	501AP		

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 (a) Name_ Address_	WV Public Lands Corporati Charleston, WV 25305 1906 Kapana &		Coal Operator Name Address	NA
(b) Name Address	Charleston, WV 25305	7 (b)	Coal Owner(s Name Address	s) With Declaration Of Record NA
(c) Name_ Address			Name Address	
6) Inspector_Address	Derek Haught P. O. Box 85 Smithfield, WV 26178 304-206-7613	7(c)	Coal Lessee W	ith Declaration Of Record NA
TO THE PERS	ON(S) NAMED ABOVE: You should have	recei	ved this fo	rm and the following documents:
The date propos THE REASON YO WHICH ARE SUN	out the plan for erosion and sediment control and ed for the first injection or waste disposal is DU RECEIVED THESE DOCUMENTS IS THAT YOU MARIZED IN THE "INSTRUCTIONS" ON FORM VERED TO TAKE ANY ACTION AT ALL.	U HAV	E RIGHTS F	REGARDING THE APPLICATION
Application and acco Environmental Prot WW-6. Copies of this	der Chapter 22-6 of the <u>West Virginia Code</u> , the undersigner ompanying documents for a Well Work Permit with the Chicection, with respect to a well at the location described on the Notice, the Application, the plat, and the Construction and vered by hand to the person(s) named above (or by publication the Chief.	ef of the e attacl d Reclar	e Office of Oil a ned Application mation Plan ha	and Gas, West Virginia Department of a and depicted on the attached Form ave been mailed by registered or
	The person signing this document shall make the	follow	ing certificati	on:
familiar with the inf and that, based on n for obtaining the infe	alty of law that I have personally examined and am formation submitted in this document and all attachments by inquiry of those individuals immediately responsible formation, I believe that the information is true, accurate aware that there are significant penalties for submitting		Operator ress	HG Energy, LLCO 5260 Unipolet Road Parkershurg WW 26101 Diane CoWhiter 113
	cluding the possibility of fine and imprisonment."	Its:	oture	WV Department of Environmental Protection
Oil and Gas Privacy	Notice	Sign	ature	Environmentalitie
	Gas processes your personal information, such as name, as		and phone nun	nber, as a part of our regulatory duties.

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 comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information, please contact DEP's Chief Privacy Officer at:

depprivacyofficer@wv.gov

WW-2B1	W	w.	2B	1
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Well No.		MJ Reilly O-19	
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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:

X 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.

No known Water Supply Sources are located within 2000' of proposed well. REGEIVED
Office of Oil and Gas

SEP 202013

WV Department of Environmental Protection

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Rev.	10/	94

	Page	3 .	.of	<u></u> . 3
AH	I Number 47-	103	•	1633
Operator's Well No.	MJ I	Reilly (0-19	

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

Watershed Piney Fork County Wetzel District Green Description of anticipated Pit Waste: Fluids encountered in drilling and stimulating existing well. Do you anticipate more than 5,000 bble of water to complete the proposed well work Yes No X Will a synthetic liner be used in pit? Yes If so, what mil.? 20 Mil. Proposed Disposal Method For Treated Pit Wastes: X Land Application Underground Injection (UIC Permit Number Reuse (at API Number Off Site Disposal (Supply Form WW-9 for disposal location) Other (Explain Orilling medium anticipated for this well? Air, fresh water, oil based, etc. If oilbased, what type? Synthetic, petroleum, etc. Additives to be used? Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. If left in pit and plan to solidify, what medium will be used? Coment, 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 saved on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand hat the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other upplicable 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 is turn, excursts and complete. I am aware that there are significant benefities for submitting false information, inclinding the possibility of fine or imprisonment. Diane C. White Accountant May Commission expires May 12, 2018	Operator	HG Energ	y, LLC		Ol	Code	494497948
Description of anticipated Pit Waste: Fluids encountered in drilling and stimulating existing well.	Watershed	Piney Forl	Σ		Quadrangle	Centerp	oint 7.5"
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Subscribed and sworn before me this B day of Quy OFFICIAL SEAL NOTARY PUBLIC TINA L. PETHTEL HG Energy, LLC 5260 Dupont Road	nat the provisi pplicable law o I o nis application or obtaining the enalties for su Company Offi Company Offi	ions of the permit are enfor regulation can lead to certify under penalty of land form and all attachment in einformation, I believe to abmitting false informationicial Signature	forceable by law. Venforcement action aw that I have perts thereto and that that the information, including the perturbation.	iolations of any term or n. sonally examined and a t, based on my inquiry or is true, accurate and ossibility of fine or impressibility of the continuation of the con	condition of the general metalliar with the inf those individuals im complete. I am aware itsonment.	ral permit a nformation a mediately r	nd/or other submitted on esponsible
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Ay commission expires 1200 1200 HG Energy, LLC 5260 Dupont Road	Subscribed ar	nd sworn before me thi	is <u>(B</u>	day of Olymes	3		
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Form WW-9

	. WW	/9_Back						
		Legend	MAI PETHIEL					
Property Boundary	A _ A _ A	Diversion	19/1/2011/					
Road		Spring	○ >					
Existing Fence	_xxx	Wet Spot	상 '					
Planned Fence	<u> </u>	Drain Pipe	——————————————————————————————————————					
Stream		Waterway	$\longleftrightarrow \longleftrightarrow \longleftrightarrow$					
Open Ditch	·>	Cross Drain						
Rock	<i>3</i> 33655	Filter Strip	XXXXXXXXX					
		Pit: Cut Walls						
North	N							
Buildings		Pit: Compacted Fill Walls	\(\frac{1}{2}\)					
Water Wells	W	Area of Land						
Drill Site	· ()	Application of Pit Waste						
Proposed Revegetation Treatment: Acres Disturbed Approx. 1.0 Ac. Prevegetation pH Area II Approx. 0.3 Ac. Lime 2 Tons/Acre or Correct to pH 6.5 Fertilizer (10-20-20 or Equivalent) 500 Lbs./Acre (500 lbs. Minimum) Mulch Straw 2 Tons/Acre SEED MIXTURES								
*	(Location)		Area II (Road)					
Seed Type Tall Fescue	Lbs/Ac. 40	Seed Type Tall Fescue	Lbs/Ac. 40					
Ladino Clover	5	Ladino Clover	5					
Photocopied section of involved		on						
Title: Dil	+ Gss Jane to	· I. I	Date: 8-19-13					
Field Reviewed?	+ Gas Inspects/	() No						

Reclamation Plan For:

M.J. Reilly No.O-19

47-103-1633

NOTE:

WELL LOCATION WAS BUILT AND RECLAIMED UNDER DRILLING PERMIT No.47-103-1633, ONLY MINIMAL EARTHWORK WILL BE REQUIRED FOR PROPOSED WELL WORK. ALL DISTURBED AREAS WILL BE RE-VEGETATED AS PER THE SEEDING PLAN ON FORM WW-9. A SMALL WORKOVER PIT WILL BE CONSTRUCTED TO CONTAIN ANY FLUIDS RECOVERED DURING PROPOSED WELL WORK.

See Page 2 for Relamation Plan From Pt. (A) to County Road

103016335

Waterflood Access Use approximately 200' of existing access road. Maintain all drainage structures. No.N-No.0-19 W.Va. DNR - Surface Owner

NOTE

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

Notes:

- · Requested permit is for workover of existing well.
- Access from County Road to well location is existing. Structures will be maintained.
- 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 work-over pit may be changed based on as-built considerations.

RECEIVED Office of Oil and Gas

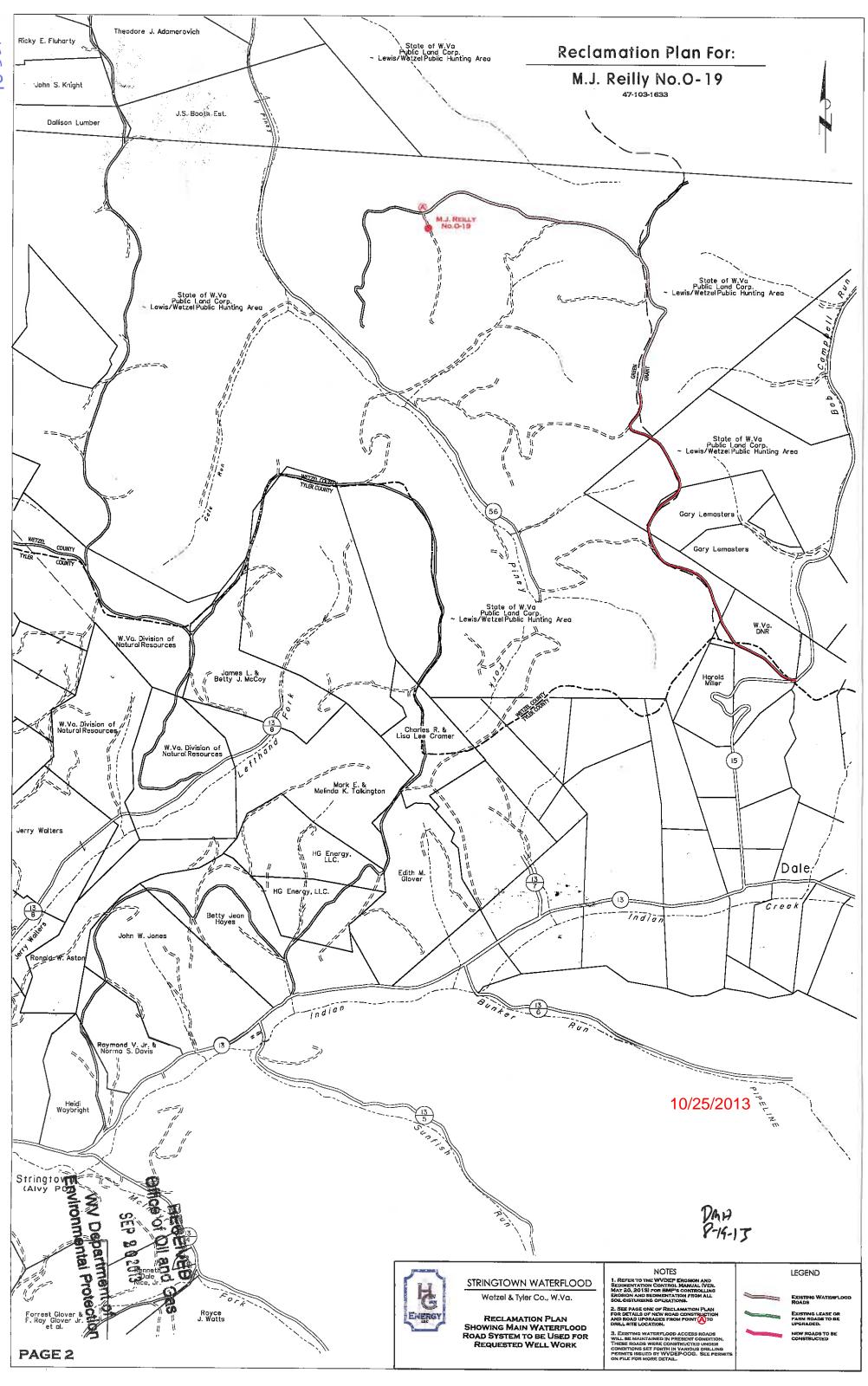
SEP 202013

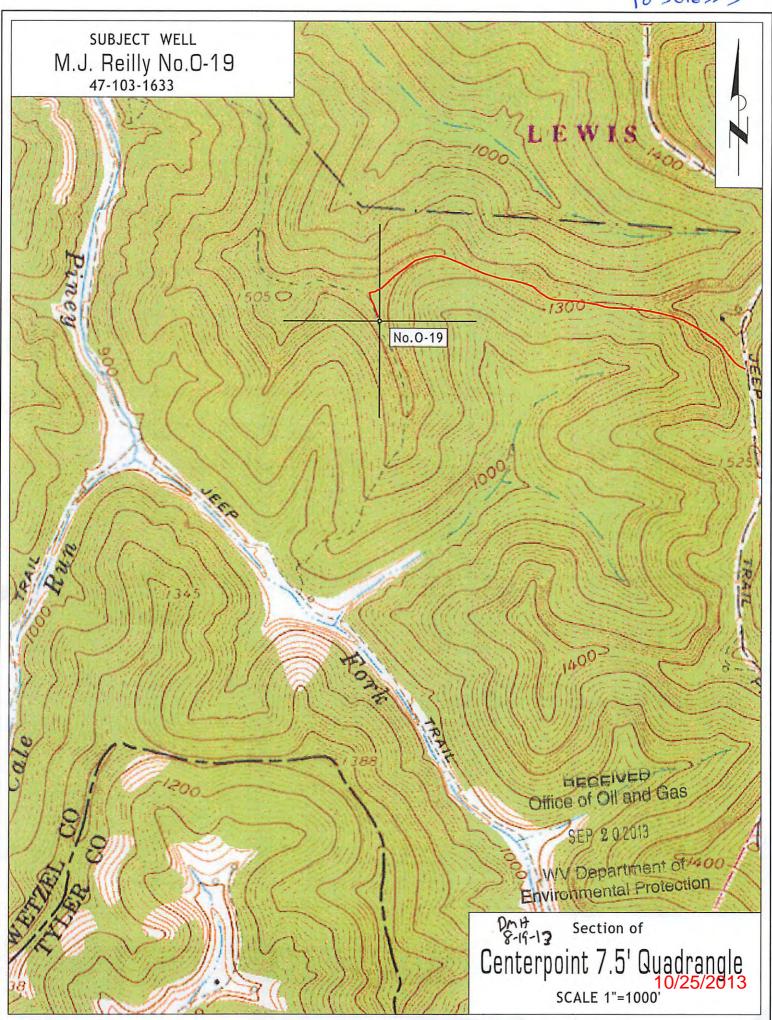
WV Department of Environmental Protection 8-19-17

10/25/2013

Page 1

Note: Drawing not to Scale





FORM

ADDRESS

5260 Dupont Road Parkersburg, WV 26101



HG Energy, LLC 5260 Dupont Road Parkersburg, WV 26101 (304) 420-1100 - Office (304) 863-3172 - Fax 10301633 5

August 13, 2013

\$6500

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

RE: M. J. Reilly No. O-19 (API 47-103-1633)

Green District, Wetzel County

West Virginia

Dear Mr. McLaughlin:

Enclosed are the Forms WW-3A, WW-3B, WW-9, WW-2(B1), mylar of plat, reclamation plan, topo map and copy of the certified mailing receipt for a permit to stimulate the above-captioned injection 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 or email at dwhite@hgenergyllc.com.

Very truly yours,

Diane Culhite

Diane C. White

Enclosures

cc: WV Public Lands Corporation - Certified

Derek Haught - Inspector

PECEIVED
Office of Oil and Gas

SEP 202013

WV Department of Environmental Protection