

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, S.E. Charleston, WV 25304 (304) 926-0450 fax: (304) 926-0452 Earl Ray Tomblin , Governor Randy C. Huffman , Cabinet Secretary www.dep.wv.gov

Wednesday, August 31, 2016 WELL WORK PERMIT Not Available / Plugging - 2

HG ENERGY, LLC 5260 DUPONT ROAD

PARKERSBURG, WV 26101

Re:

Permit approval for WR MCINTYRE 2

47-095-02002-00-00

This well work permit 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 any additional specific 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 of 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.

Per 35 CSR 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) 926-0450.

James A. Martin

Operator's Well Number: WR MCINTYRE 2

Farm Name: MILLER, RONNIE W.

U.S. WELL NUMBER: 47-095-02002-00-00

Not Available / Plugging - 2

Date Issued: 8/31/2016

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-4B Rev. 2/01

1) Date June 20	,	20 16
2) Operator's		-
Well No. WF	McIntyre 2	
3) API Well No	. 47 - 095	- 2002

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

	OFFICE OF	OID AND GAS
	APPLICATION FOR A PER	MIT TO PLUG AND ABANDON
4)	Well Type: Oil _X _/ Gas/ Liqui	d injection/ Waste disposal/
	(If "Gas, Production or Un	derground storage) Deep/ Shallow_X
-\	Location: Elevation 952 1053	Watershed McIntyre Fork
5)	District McElroy	County Tyler Quadrangle Centerpoint 7.5'
6)	Well Operator HG Energy, LLC	7) Designated Agent Diane White
	Address 5260 Dupont Road	Address 5260 Dupont Road
	Parkersburg, WV 26101	Parkersburg, WV 26101
8)	Oil and Gas Inspector to be notified	
	Name Justin Snyder	Name_To Be Determined Upon Approval of Permit
	Address 200 Florence Lumberport, WV 26386	Address
	Lumberport, VV 20000	
		v
	** See Attach	ed Sheet **
	fication must be given to the district o	il and gas inspector 24 hours before permitted
	K.	Mil / A Moffice of Qil And Gas
Work	order approved by inspector	JUL 15 2016

WV Department of 09/02/2016 Environmental Protection

WW-4B - Conti Rev. 2/01

June 20, 2016 Date: 1)

2) Operator's Well Number

W R McIntyre 2

API Well No: 47 State 2002 Permit

County

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

ADDITICATIONI EOD A DEDMIT TO DI LICAND ARANDONI

	APPLICAT	TION FOR A PERIVII	I TO FLOG F	MID ADAMD	JIN			
4) WELL TYPE:	Oil (If "Gas	x Gas s", Production	Liquid Injecture Undergroun		Waste Disp Deep		allow _	X
5) LOCATION:	Elevation:	952 1053'	Watershed:_	McIntyre F				
	District:	McElroy	County: _	Tyler	Q	uadrangle	Center	point 7.5'
6) WELL OPERA	TOR: HG Ene	ergy, LLC	494497948	7) DESIGNAT	TED AGENT	Diane W	√hite	
Address		upont Road			Address	5260 Du	ipont Ro	ad
		burg, WV 26101				Parkerst	ourg, W	V 26101
8) OIL & GAS INS	SPECTOR TO	BE NOTIFIED		9) PLUGGING	7 CONTRACT	OR		
Name	Justin Synde			Name	To Be Determ		Approval	l of Permit
Address	200 Florence			Address	20202000		PP	
Address	Lumberport,							
	Edinociport,	17 7 20300						
Plug # 2 - 2325' - 22 Located at 5" casir Free point, part an Plug #3 - 2050' - 19 Located at 6" casin Plug #4 - Approx 13 Located at 6" casin Free point, part an Plug #5 - 765' - 600 Located through 6" Attempt to pull all Plug #6 - 250' - Sui	Gordon d pull all poss 225' ng shoe d pull 6" casin 50' g shoe, and 5 300' - 1200' g stub throug d pull all poss y' casing stub, possible 10" rface	gh 8" casing shoe sible 8" casing at app Pittsburgh coal and 8	ovimately 125	0' - SET EIE	VATION PCUC ***********************************	- 902 - 13116 h coal if pr	- 1002 v	MAG 7/8/16
Recover all possibl	e casing. If o	casing can not be reco	overed, perfora	ite for plug pla	cement.			
Monument - 6" minimum diame 30" above surface	eter metal pip	e						
1011 111 1	- C					DECEN	11-17	

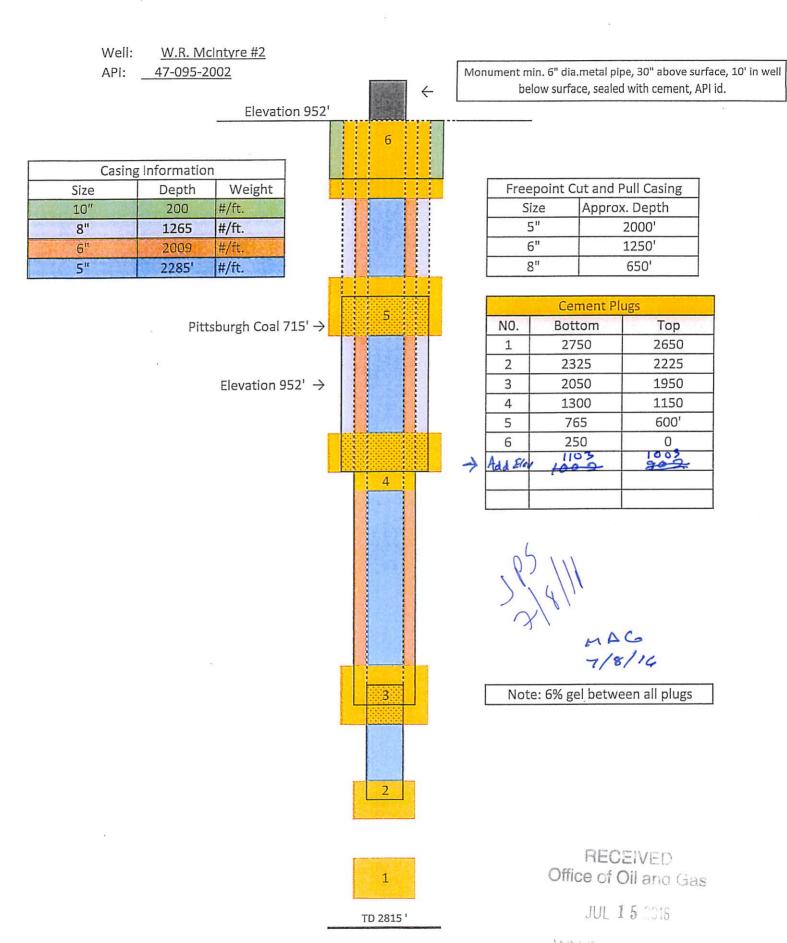
10' in well below surface Sealed with cement API identification (1/2") height numbering

RECEIVED Office of Oil and Gas

JUL 15 2016

6% Gel between all plugs





WV Depar 09/02/2016 Environmental Protection

	a de reserve	. A. 120 m			
No. z A. J. Sin	mons & Co	mpany	C	OMPLE	TION
SERIAL No	FARM_ W.R.	McIntyre			VELL NO. 1
ELEVATION	RJ.	- 1	E		w 4
CONTRACTOR ESEC	n & Baker	ACRES	100		
WATERS OFInd	ian Creek			MAP NO	
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DISTRICT MCELT	Jul. 28, 19;	32	Oct. 2	1922.	EPTH 2815
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Office of Oil and Gas

JULIL 8-085 - 2003

W// D#109/02/2016

WW-4A	
Revised	6-07

1) Date:	June 20, 2016	
2) Operator	r's Well Number	
W. R. McIntyre 2		

3) API Well No.: 47 -

095 - 02002

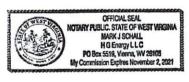
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

4)		ner(s) to be served:	5) (a) Coal Operator	
	(a) Name	Frank Simons	Name	NA
	Address	20913 Waterbeach Place	Address	
		Sterling, VA 20165		
	(b) Name		(b) Coal Own	ner(s) with Declaration
	Address		Name	NA
		-	Address	
	(c) Name		Name	NA NA
	Address	<u> </u>	Address	
6) I	nspector	Justin Snyder	(c) Coal Less	see with Declaration
	Address	200 Florence	Name	NA
		Lumberport, WV 26386	Address	
,	Telephone	-		

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.



Well Operator	HG Energy, LLC	
Ву:	Diane White Diane White	Car of a land
its:	Agent	RECEIVED
Address	5260 Dupont Road	Office of Oil and Gas
	Parkersburg, WV 26101	
Telephone	304-420-1119	ALIC 0 1 2010-
		AUG 3 1 /UID

Subscribed and sworn before	re me this 20th / day o	of / June, 2016	WV Department of
A NOTARY A	re me this 20th day o	fle	Notary Public Environmental Protection
My Commission Expires	NOVEMBER	2 2021	

Oil and Gas Privacy Notice

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 normal 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. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyoffier@wv.gov.

WW-9 (5/16)

API Number	47 - 095	_ 02002	
Operator's W	ell No. W	R McIntyre 2	

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

FLUIDS/ CUTTINGS	S DISPOSAL & RECLAMATION PLAN
Operator Name HG Energy, LLC	OP Code 494497948
Watershed (HUC 10) McIntyre Fork	Quadrangle Centerpoint 7.5'
Do you anticipate using more than 5,000 bbls of water to	o complete the proposed well work? Yes No
Will a pit be used? Yes No	ANY WELL EFFLUENT MUST BE CONTRINED IN TANKS BEFORE DISPOSING OFF- SITE. CAMM
If so, please describe anticipated pit waste:	SET OF THE PROPERTY OF THE PRO
Will a synthetic liner be used in the pit? Yes	No If so, what ml.?
Proposed Disposal Method For Treated Pit Was	stes:
Land Application (if selected	provide a completed form WW-9-GPP)
	Permit Number)
	rm WW. 9 for disposal location)
Off Site Disposal (Supply to	rm WW-9 for disposal location) hauled for off site disposal at an authorized site to be determined at the time the well is plugged.
Will closed loop systembe used? If so, describe: NA	
Drilling medium anticipated for this well (vertical and h	orizontal)? Air, freshwater, oil based, etc. NA
-If oil based, what type? Synthetic, petroleum,	etc
Additives to be used in drilling medium?NA	
Drill cuttings disposal method? Leave in pit, landfill, re-	moved offsite, etcNA
	will be used? (cement, lime, sawdust) NA
	'
	il and Gas of any load of drill cuttings or associated waste rejected at any rovided within 24 hours of rejection and the permittee shall also disclose
	ovided within 24 hours of rejection and the permittee shall also disclose
on April 1, 2016, by the Office of Oil and Gas of the W provisions of the permit are enforceable by law. Violatic or regulation can lead to enforcement action. I certify under penalty of law that I have per application form and all attachments thereto and that, ba the information, I believe that the information is true, submitting false information, including the possibility of	
Company Official Signature Diane Whi	AUG 3 1 2016
Company Official (Typed Name) Diane White	
Company Official Title Agent	WV Department of
	Environmental Protection
	J. SCHALC Notary Public NOTARY Public NOTARY PUBLIC. STATE OF WEST WRISHNA MARK J SCHALL HIG Entry LLC PO Box 5519, Venna, W 20105 My Commission Expires November 2, 2021

Proposed Revegetation Treatment: Acres Disturbed

Temporary

lbs/acre

40

5

Fertilizer type 10/20/20

Straw

Fertilizer amount_

Mulch

Seed Type

Tall Fescue

Ladino Clover

	95020
Oper	ator's Well No. WR McIntyre 2
ocres Prevege	tation pH
H 6.5	
-	
lbs/acre	
s/acre	
ed Mixtures	
ed matures	Permanent
Seed Type	
Tall Fescue	40
Ladino Clover	5
Times **	
	ions (L, W, D) of the pit, and dimen

** Sediment Control Will Be In Place At All Times Maps(s) of road, location, pit and proposed area for land application (un provided). If water from the pit will be land applied, provide water volu (L, W), and area in acres, of the land application area. Photocopied section of involved 7.5' topographic sheet. Comments: Bil & Gas Inspector Date) Yes Field Reviewed? Environmental

0.7 acres

2 Tons/acre

3 Tons/acre or to correct to pH 6.5

500

Pa	ige	of
API Number 47 - 0	95 -	2002
Operator's Well No.	W R McInty	re 2

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

Operator Name:HG Energy, LLC	
Watershed (HUC 10): McIntyre Fork	Quad: Centerpoint 7.5'
Farm Name: W R McIntyre	
List the procedures used for the treatment and discha groundwater.	arge of fluids. Include a list of all operations that could contaminate th
NA	
2. Describe procedures and equipment used to protect gr	roundwater quality from the list of potential contaminant sources above
NA	
 List the closest water body, distance to closest water discharge area. 	er body, and distance from closest Well Head Protection Area to th
NA	
4. Summarize all activities at your facility that are alread	ly regulated for groundwater protection.
NA	
	RECEIVED
	Office cf Oil and Gas

WW-9- GPP Rev. 5/16	Page of API Number 47 - 095 2002 Operator's Well NoWR McIntyre 2				
NA					
6. Provide a statement that no waste material will be used for deicing or fill material on the property.					
NA					
7. Describe the groundwater protection instruction and training provide direction on how to prevent groundwater contamin	ing to be provided to the employees. Job procedures shall ation.				
NA					
8. Provide provisions and frequency for inspections of all GPP elements and equipment.					
NA					

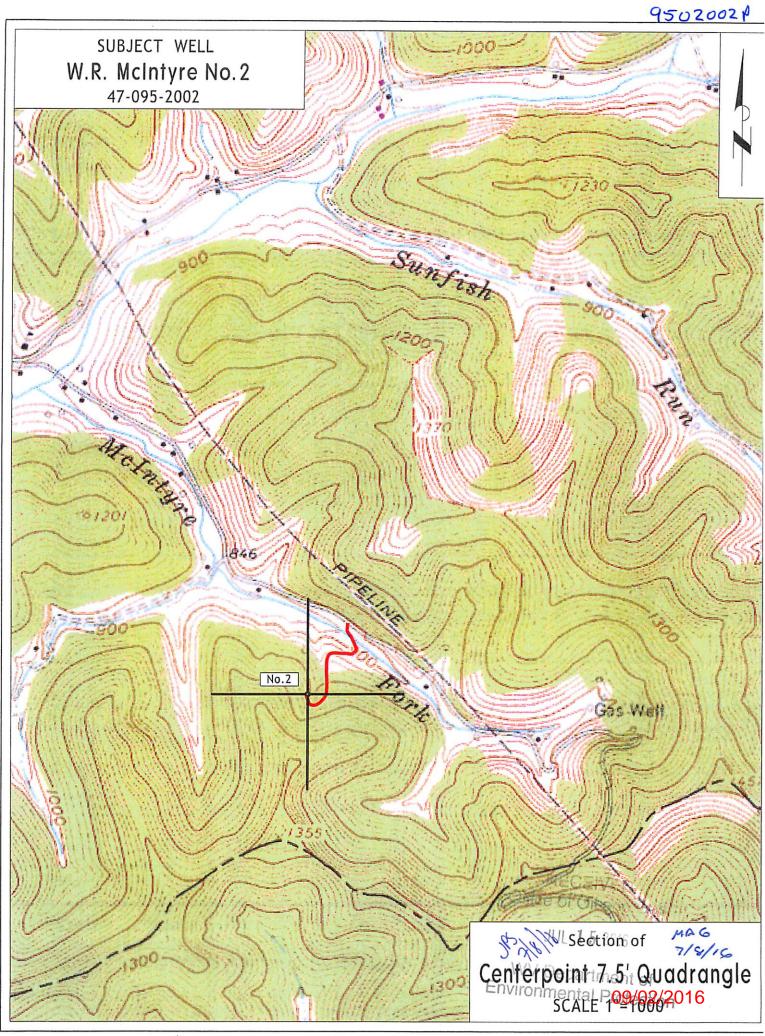
Signature: Diane White

Date: 06/20/2016

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Office of Oil and Gas

JUL 1 5 2016

WV Departmattl/02/2016



West Virginia Department of Environmental Protection Office of Oil & Gas

WELL LOCATION FORM: GPS

API:47-	095 - 2002		WELL NO:	2
FARM NAME:	W.R. McIntyre No.2			
RESPONSIBLE PARTY N	AME: H.G. En	ergy, LLC		
COUNTY:	Tyler		DISTRICT:	McElroy
QUADRANGLE:	Centerpoint 7.5'			
SURFACE OWNER:	Frank Simons			
ROYALTY OWNER:	American Energy	Partners, LL	C et al.	
UTM GPS NORTHING:	4,365,105	(NAD 83)		12
UTM GPS EASTING:	527,335	(NAD 83)	GPS ELEVATION:	321 m957
preparing a new well locat. Oil & Gas will not accept (1. Datum: NA height abov 2. Accuracy to 3. Data Collect Survey Grade G	Real-Time Difference GPS X Post Processed Di	nit on the about meet the fol Coordinate Unneters. fferential ential fferential	ve well. The Office of lowing requirements	:
• •	Real-Time Difference of the correct to formation required by law a following on the correct to the correct to follow a following or the correct to the corre	the best of m	•	7/8/16
Diane White	Diane C. White		RECEIVED Or Designated Age	ent
Signature June 3,	2015		Title JUL 1 5 2018	
Date		 E	WV Departmen	