

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

Austin Caperton, Cabinet Secretary www.dep.wv.gov

Tuesday, July 10, 2018 WELL WORK PERMIT Vertical / Re-Work

HG ENERGY, LLC 5260 DUPONT ROAD

PARKERSBURG, WV 26101

Re: Permit approval for C. MCGRAW 115 47-087-04758-00-00

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

Chief

Operator's Well Number: C. MCGRAW 115

Farm Name: ATKINSON, DELORES (TRUS

U.S. WELL NUMBER: 47-087-04758-00-00

Vertical Re-Work Date Issued: 7/10/2018

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.

Ch# 3100

FORM WW-3 (B) 1/12



1) Date:	06/07/2018	3						
2) Operator's	s Well N	lo.	Cha	rles McGraw	115			
3) API Well	No.:	47	-	087	-	04758	W	
		State	-	County		I	Permit	
4) UIC Perm	it No.	2R08	704AF	•				

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) WELL TYPE:		d Injectio	n 🗸	_ /	-	tion (not storage		_ / W	aste Disposal	
6) LOCATION:	Elevatio						sh Run	0 1	1	7.51
		Smithfiel			Cor	inty Roane	men i de		gle Looneyville	17.5
7) WELL OPER						8) DESIGNA				
Ad		60 Dupont F					Addres			
		rkersburg, V				10) DDH I D	TO CONTER		urg, WV 26101	
9) OIL & GAS II		R TO BE	NOTIFI	ED		10) DRILLIN		ACTOR		
Name Joe Ta						Name NA	N.			
Address 1478 Claylick Road Address Ripley, WV 25271										
Ripley,	WV 25271					-				
11) PROPOSED	WELL WO	ORK :	Drill Plug off o	old form	/ Drill d	/ Perfo	/ Red rate new fo	rmation	Co	nulate / onvert dize w/ 2000 gal HCL
12) GEOLOGIC	TARGET	FORMA'				Depth	2108 (TVD)	Feet (top)) to 2134 (TVD)	Feet (bottom)
13) Estimated De	enth of Con	npleted W	Vell. (or a	ctual de	oth of exist					
14) Approximate				sh none		Feet	Salt 1	780, 1840	Feet	
15) Approximate			NA							
16) Is coal being			Yes		No					
17) Virgin reserv	oir pressur	e in targe	t formation	on 1250	psig	Source	Estimated			
18) Estimated res									ps	sig (BHFP)
19) MAXIMUM	PROPOSE	ED INJEC	CTION O	PERAT	IONS: V	olume per hou	ır 25		ole pressure	2400
20) DETAILED	IDENTIFIC	CATION	OF MAT	ERIAL	S TO BE I	NJECTED, IN	CLUDING	ADDITIVE	S Fresh water	, Produced water,
bactericides, and o										
21) FILTERS (II	ANY) C	artridge filter	rs							
22) SPECIFICA	TIONS FO	R CATH	ODIC PR	OTEC	TION AND	OTHER COR	ROSION C	ONTROL		
23) CASING AND	TUBING F	PROGRAM	Л							
CASING OR		SPI	ECIFICATI	ONS		FOOTAGE IN		CEMENT	PAG	CKERS
TUBING TYPE	Size	Grade	Weight	New	Used	For Drilling	Left In	FILL -UP		
			per ft.				Well	OR SACKS (CU. FT.)		
0 1 .					- v	201	30'	(00.11.)	Kinds	
Conductor	11 5/8"	LS	NA 47		X	30'	507'	CTS	Killus	
Fresh Water	7"	LS	17	Х		507'	507	013	Sizes	
Coal					-			-		/8" x 4"
Intermediate	4.4/0!!	1.55	10.5	Х		2488.65	2488.65	350 cu ft	Depths set	70 X 1
Production	4 1/2"	J-55 J-55	4.7	X	<u> </u>	2207	2207	000 Ga K		2207
Tubing	2 3/8"	J-55	4.7		-	2201	2201		Perforations	
Liners									Тор	Bottom
						1			2306	2316
24) APPLICAN	Γ'S OPERA	ATING R	IGHTS v	vere aco	uired from	C H McGraw				
by deed		ease x		other co	50.	/ dated	03/18/1910	:	of	record in the
Roane			ounty Cle					Book 17	P	age 570
								-	CEIVED	
				//	M.			Office o	f Oil and Gas	
			/						4 0 4	
				A C	13-18			JUN	1 8 2018	
				6_				gaznananana	120 6 W	
			//	_				WV De Environme	partment of ental Protection	n

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State of West Virginia Department of Environmental Protection - Office of Oil and Gas Well Operator's Report of Well Work

API 47 - 087 - 04758 County ROANE	District_SMITHFIELD
Quad LOONEYVILLE 7.5' Pad Name MCGRAW, CHARLE	
Farm name ATKINSON, DELORES	Well Number 115
Operator (as registered with the OOG) H.G. ENERGY LLC	
	State WV Zip 26101
As Drilled location NAD 83/UTM Attach an as-drilled plat, profile vie Top hole Northing 4,285,135 M Landing Point of Curve Northing Bottom Hole Northing 4,284,991 M	Easting 475,577 M Easting
	Easting 475,725 M
Elevation (ft) 1,111' GL Type of Well New Existin	ng Type of Report □Interim B Final
Permit Type Deviated Horizontal Horizontal Verti	·
Type of Operation □ Convert □ Deepen Drill □ Plug Back □	Redrilling □ Rework □ Stimulate
Well Type □ Brine Disposal □ CBM □ Gas □ Oil ■ Secondary Recovery	· ·
Type of Completion ■ Single □ Multiple Fluids Produced □ Brine □	oGas □ NGL
Drilled with □ Cable ■ Rotary	
Drilling Media Surface hole ■ Air □ Mud ■ Fresh Water Intermed	liate hole ■ Air □ Mud ■ Fresh Water □ Brine
Production hole Air Mud Fresh Water Brine	
Mud Type(s) and Additive(s) N/A	
Date permit issued 2/27/15 Date drilling commenced 6/4/	Date drilling ceased 6/8/15
Date completion activities began6/24/15 Date completion	activities ceased6/30/15
Verbal plugging (Y/N) N Date permission granted	
Please note: Operator is required to submit a plugging application within 5 days	of verbal permission to plug JUN 18 2018
Mana	WV Department of Environmental Protection
177001 1010	N) depthsNone
* •	red (Y/N) depthsNone
	tered (Y/N) depthsNone
Is coal being mined in area (Y/N) N	

WR-35								Page 2	of <u>4</u>	
Rev. 8/23/13			A TIZINIO	ON DELO	חבס		115			
API 47-087	04758	Farm na	me_ATKINS	ON, DELO	KES	Well	number 115			
CASING	Hole	Casing		New or	Grade		Basket	Did cement circulate (
STRINGS	Size	Size	Depth	Used	wt/ft		Depth(s)	* Provide details bel	ow*	
Conductor	12 1/4"	11 5/8"	30'	Used		LS		Sand In		
Surface	8 3/4"	7"	507'	New	ļ	LS	64'	N		
Coal										
Intermediate 1										
Intermediate 2		_								
Intermediate 3	<u> </u>			ļ	ļ					
Production	6 1/4"	4 1/2"	2488.65'	New		l-55		Y		
Tubing	<u> </u>									
Packer type and d	epth set									
Comment Details	Grouted w/ Est. 25	sks to surface on 7" sur	face cement job. Cir	culated Est. 30 sk	s to surface o	on 4 1/2" cement	job.			
CEMENT	Class/Type	Number			rield	Volume	Cemen			
DATA Conductor	of Cement	of Sacks	s wt (pp	pg) (fi	t ³ /sks)	(ft. ³ .)	Top (MI	o, (ars)		
Surface	Reg Neat	130	15.6	<u> </u>	1.18	153	Surfac	e 8		
Coal	Reg Neat	130	10.0	-	1.10	100				
Intermediate 1										
Intermediate 2										
Intermediate 3										
Production	50:50 Pozmi:	x 100/125	5 13.2/1	42 16	4/1.27	164/186	42'	8		
Tubing	30.30 F 021112	100/120	10.271	7.2 1.0	77 1.21	101/100				
<u> </u>				<u>-L</u> ,						
Drillers TD (ft				Loggers T				RE(CEIVED	
•	tion penetrated	Big Injun		Plug back	to (ft) N/			Onice of	Oil and Gas	
Plug back pro	cedure N/A							JUN	1 8 2018	
Kick off depth	(ft) 650'	•							partment of ntal Protecti	
								EHVITORINO	, , , , , , , , , , , , , , , , , , ,	
Check all wire	line logs run	월 caliper 월 neutron	■ density □ resistivity		ed/directi a ray		duction emperature	□sonic		
Well cored	Yes 🖺 No	Conventio	nal Side	wall	W	ere cuttings	collected 191	Yes 🗆 No		
		ZER PLACEME	NT USED FO	R EACH CA	ASING S	TRING				
				-						
WAS WELL C	COMPLETED A	S SHOT HOLE	□ Yes 🚇	No DI	ETAILS					
WAS WELL C	COMPLETED C	PEN HOLE?	□Yes 🖺 N	o DET	AILS _					
WERE TRACE	ERS USED 🗖	Yes 🖺 No	TYPE OF T	RACER(S) U	JSED _					

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API 47- 087 - 04758 Farm name_ATKINSON, DELORES

Well number 115

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	6/24/15	2306'	2316'	40	Big Injun
				 	Dig filjuit
				 	
					·
				<u> </u>	
	 				
-	<u> </u>				

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of
1	6/30/15	5	578	1671	545	2,500	148	Nitrogen/other (units)
1					040	2,300	140	
				<u> </u>				
<u> </u>							-	
						†		
1								
<u> </u>			 					
								
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								RECEIVED Office of Oil and Gas
								- On and Gas
								JUN 1 8 2018
								WV Department of invironmental Protection
								ļ.

Please insert additional pages as applicable.

WR-35 Rev. 8/23/13										Page 4_of_
	7 _ 04758	Farm	name_ATKIN	ISON, DE	LORES	We	II numb	<u></u> 115	5	
-			r name			w e	ii iiuiiib	er		
PRODUCING	FORMATION :	<u>V(S)</u>	<u>DEPTHS</u>							
Big Injun		-	2108'- 2134'	TVD	2288'- 2322	2' M	D			
					3					
		-			*		£			
-				_						
Please insert a	dditional pages	as applicable.								
GAS TEST	□ Build up	□ Drawdown	□ Open Flow	<i>i</i>	OIL TEST	□ Flow	□ Pum	р		
SHUT-IN PRE	SSSURF Sur	rface	nsi Pot	tom Uolo	2010	DIID	A TOTAL	OF THE	nom.	
		rface			ps	DUR	ATION	OF TE	ST	hrs
OPEN FLOW		Oil efpd	NGL bpd			GAS od □ Est	MEAS timated	URED	BY rifice	□ Pilot
LITHOLOGY/	TOP	BOTTOM	TOP	BOTTO						
FORMATION	DEPTH IN FT	DEPTH IN FT	DEPTH IN FT							NTITYAND
Sand/Shale	NAME TVD 0	TVD 1740	MD	MD	TYPE O	F FLUID (FR	ESHWA'	TER, BF	RINE, OI	L, GAS, H ₂ S, ETC)
Sand	1740	1786	1843	1835	_					
Shale	1786	1796	1876	1876						
Sand	1796	1806	1888	1888						DECEIVED.
Shale	1806	1818	1900	1918					Offic	RECEIVED ce of Oil and Gas
Sand	1818	1934	1918	2064						11. 1.0. 0010
Little Lime	1934	1958	2064	2093						JN 18 2018
Pencil Cave	1958	1966	2093	2104					10/	V Department of onmental Protecti
Big Lime	1966	2089	2104	2262			-		Enviro	nmental Protecti
Keener	2089	2108	2262	2288						
Big Injun	2108	2134	2288	2322		Drilled dire	ectional S	53° E a	a distanc	e of 672'
Shale	2134	2294	2322	2525						5 6. 6.2
TD .	2294		2525							
DI.	11.1									- F
Please insert add	ditional pages a	s applicable.								
Drilling Contrac	tor Decker Drill	ing								
Address 11565 S	tate Route 676		City	Vincent		State	ОН	Zip	45784	
Tagaina Cama	Weatherford	International		0				г		
Logging Compa Address 777 Nort		memational	G':	Moston					00150	227
Address			City	Weston		State	WV	Zip	26452	
Cementing Com	pany Universal	Services								
Address Hall Rd			City	Buckhannor	า	State	WV	Zip	26201	
Stimulating Com	Produce	are Sonioo Corn	1877				***************************************			
Address 109 Sout		ora dervice corp		Zanasvilla	-		611		10701	
Please insert add		annlicable	City	Zanesville		State		_ Zip	43701	
	Pugos as	apphoaole.								
Completed by F	Roger-Heldman	7.			Telephor	e 304-420	-1107			
Signature	Sin A	Hilliam	Title Op	erations Man			Date 7/	28/15		
Submittal of Hyd	raulic Fracturir	ng Chemical Di	sclosure Inform	mation	Attach copy	of FRACE	OCUS	Regist	ry	

Attach copy of FRACFOCUS Registry

FORM WW-3 (A) 1/12

5) Surface Owner(S) To Be Served



1) Date:	June 7, 201	18				
2) Operato	r's Well	No.	Charle	s McGraw	115	
3) API We	ell No.:	47		087	-	04758
		State	_	Count	y	Permit
A) THO D	*/ 3 T					

4) UIC Permit No. UIC2R08704AP

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,

7) (a) Coal Operator

am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there	
(b) Name Address (c) Name Address (c) Name Address (c) Name Address (d) Inspector Address (e) Inspector Address (f) Inspector Address (g) Inspector Address (hame A	
Address (c) Name	- Marcon
Address (c) Name	aration Of Record
(c) Name Address Address 6) Inspector Address Telephone To the Persons Name Dabove: You should have received this form a Address To the Application For A Liquid Injection or Waste Disposal Well Work Permit on For parties involved in the drilling or other work; (2) The plat (surveyor's map) showing the well location on Form WW-6; and (3) The Construction and Reclamation Plan on Form WW-9 (unless the well work is only to plan for erosion and sediment control and for reclamation for the site and access road. The date proposed for the first injection or waste disposal is THE REASON YOU HAVE RECEIVED THESE DOCUMENTS IS THAT YOU HAVE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE RETHE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE RETHE APPLICATION [(FORM WW-3(B))] DESIGNATED TO YOU. HOWEVER YOU ACTION AT ALL. Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operate Notice and Application and accompanying documents for a Well Work Permit with the Chewst Virginia Department of Environmental Protection, with respect to a well at the load Application and depicted on the attached Form WW-6. Copies of this Notice, the Application and Reclamation Plan have been mailed by registered or certified mail or delivered by hand by publication in certain circumstances) on or before the day of the mailing or delivery to the The person signing this document shall make the following certain familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there that the information is true, accurate and complete. I am aware that there that the information is true, accurate and complete. I am aware that there that the property is the structure and complete. I am aware that there that the property is the structure and complete. I am aware that there that the polar than	
(c) Name Address Address Address 6) Inspector Address 1478 Claylick Road Ripley, WV 25271 Telephone 7) (c) Coal Lessee with Declaration Name NA Address TO THE PERSONS NAMED ABOVE: You should have received this form a (1) The Application For A Liquid Injection or Waste Disposal Well Work Permit on For parties involved in the drilling or other work; (2) The plat (surveyor's map) showing the well location on Form WW-6; and (3) The Construction and Reclamation Plan on Form WW-9 (unless the well work is only the plan for erosion and sediment control and for reclamation for the site and access road. The date proposed for the first injection or waste disposal is THE REASON YOU HAVE RECEIVED THESE DOCUMENTS IS THAT YOU HAVE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE RESEIVED APPLICATION [(FORM WW-3(B))] DESIGNATED TO YOU. HOWEVER YOU ACTION AT ALL. Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operate Notice and Application and accompanying documents for a Well Work Permit with the Chapplication and depicted on the attached Form WW-6. Copies of this Notice, the Application and Reclamation Plan have been mailed by registered or certified mail or delivered by hand by publication in certain circumstances) on or before the day of the mailing or delivery to the The person signing this document shall make the following cer "I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that By: In the information is true, accurate and complete. I am aware that there The person signing the information, I believe that the low Application in the content of the park in the information is true, accurate and complete. I am aware that there	
Address Address Address Address 7) (c) Coal Lessee with Declaration Name Ripley, WW 25271 Telephone 7) (c) Coal Lessee with Declaration Name Ripley, WW 25271 Telephone 7) (c) Coal Lessee with Declaration Name NA Address To THE PERSONS NAMED ABOVE: You should have received this form a (1) The Application For A Liquid Injection or Waste Disposal Well Work Permit on For parties involved in the drilling or other work; (2) The plat (surveyor's map) showing the well location on Form WW-6; and (3) The Construction and Reclamation Plan on Form WW-9 (unless the well work is only the plan for erosion and sediment control and for reclamation for the site and access road. The date proposed for the first injection or waste disposal is THE REASON YOU HAVE RECEIVED THESE DOCUMENTS IS THAT YOU HAVE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE RETHE APPLICATION [(FORM WW-3(B))] DESIGNATED TO YOU. HOWEVER YOU ACTION AT ALL. Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operate Notice and Application and accompanying documents for a Well Work Permit with the Ch West Virginia Department of Environmental Protection, with respect to a well at the low Application and depicted on the attached Form WW-6. Copies of this Notice, the Application Reclamation Plan have been mailed by registered or certified mail or delivered by hand by publication in certain circumstances) on or before the day of the mailing or delivery to the The person signing this document shall make the following cer "I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that there information is true, accurate and complete. I am aware that there	
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6) Inspector Address Telephone Telephone To the Persons Named Above: You should have received this form at (1) The Application For A Liquid Injection or Waste Disposal Well Work Permit on For parties involved in the drilling or other work; (2) The plat (surveyor's map) showing the well location on Form WW-6; and (3) The Construction and Reclamation Plan on Form WW-9 (unless the well work is only the plan for erosion and sediment control and for reclamation for the site and access road. The date proposed for the first injection or waste disposal is THE REASON YOU HAVE RECEIVED THESE DOCUMENTS IS THAT YOU HAVE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE RETHE APPLICATION [(FORM WW-3(B))] DESIGNATED TO YOU. HOWEVER YOU ACTION AT ALL. Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operate Notice and Application and accompanying documents for a Well Work Permit with the Chewest Virginia Department of Environmental Protection, with respect to a well at the low Application and depicted on the attached Form WW-6. Copies of this Notice, the Application and Reclamation Plan have been mailed by registered or certified mail or delivered by hand by publication in certain circumstances) on or before the day of the mailing or delivery to the The person signing this document shall make the following cer "I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that there information is true, accurate and complete. I am aware that there the Institute of the Institute	
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API Number 4	7 - 087	- 04758
Onera	tor's Well No	Charles McGraw 115

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

FLUIDS/ CUTTINGS DISPOSAL	& RECLAMATION PLAN
Operator Name HG Energy, LLC	OP Code 494497948
Watershed (HUC 10) Rush Run	Quadrangle Looneyville 7.5'
Do you anticipate using more than 5,000 bbls of water to complete the	proposed well work? Yes No
Will a pit be used? Yes No	
If so, please describe anticipated pit waste: No fluids antici	
Will a synthetic liner be used in the pit? Yes No_	If so, what ml.?
Proposed Disposal Method For Treated Pit Wastes:	
Land Application	
Underground Injection (UIC Permit Num Reuse (at API Number	per)
Off Site Disposal (Supply form WW-9 for	disposal location)
Will closed loop system be used? If so, describe: No	
Drilling medium anticipated for this well (vertical and horizontal)? A	ir, freshwater, oil based, etc. Air, Fresh Water
-If oil based, what type? Synthetic, petroleum, etc. NA	
Additives to be used in drilling medium? Water, Soap, KCI	
Drill cuttings disposal method? Leave in pit, landfill, removed offsite	, etc. NA
-If left in pit and plan to solidify what medium will be used?	(cement, lime, sawdust) NA
-Landfill or offsite name/permit number? _To be determined up	on approval of permit
Permittee shall provide written notice to the Office of Oil and Gas of West Virginia solid waste facility. The notice shall be provided within where it was properly disposed.	
on August 1, 2005, by the Office of Oil and Gas of the West Virginia provisions of the permit are enforceable by law. Violations of any taken or regulation can lead to enforcement action.	ined and am familiar with the information submitted on this ny inquiry of those individuals immediately responsible for courate, and complete. I am aware that there are significant
Company Official Signature Diane White	
Company Official (Typed Name) Diane White	RECEIVED Office of Oil and Gas
Company Official Title Agent	JUN 1 8 2018
Subscribed and sworn before me this 7th day of June	WV Department of Environmental Protection
Vearing M. Southe	Notary Public
My commission expires Que 30 20 2	OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA JEANINE M. GAUTHIER HG Energy, LLC 5280 Dupont Road Parkersburg, West Virginia 26101 My Commission Expires Aug. 30, 202

E.m	WW-9
rorm	w w-y

Proposed Revegetation Trea	atment: Acres Disturbed	.5 Prevegetation	pН
-	Tons/acre or to corre		
Fertilizer type		.	
Fertilizer amount	F00	lbs/acre	
Mulch Straw	2	Tons/acre	
		Seed Mixtures	·
Temporary		Permanent	
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 provided)	ı, pit and proposed area for	land application (unless engineered plans i	ncluding this info have be
Sediment Control F Attach: Drawing(s) of road, location provided) Photocopied section of involution	ı, pit and proposed area for	land application (unless engineered plans i	ncluding this info have be
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JUN 18 2018

To New Wells CB Ferrell 202 et al. ~1,400' of Existing Access Road to WV SR 36 Old Slip

Reclamation Plan For: Charles McGraw No. 115

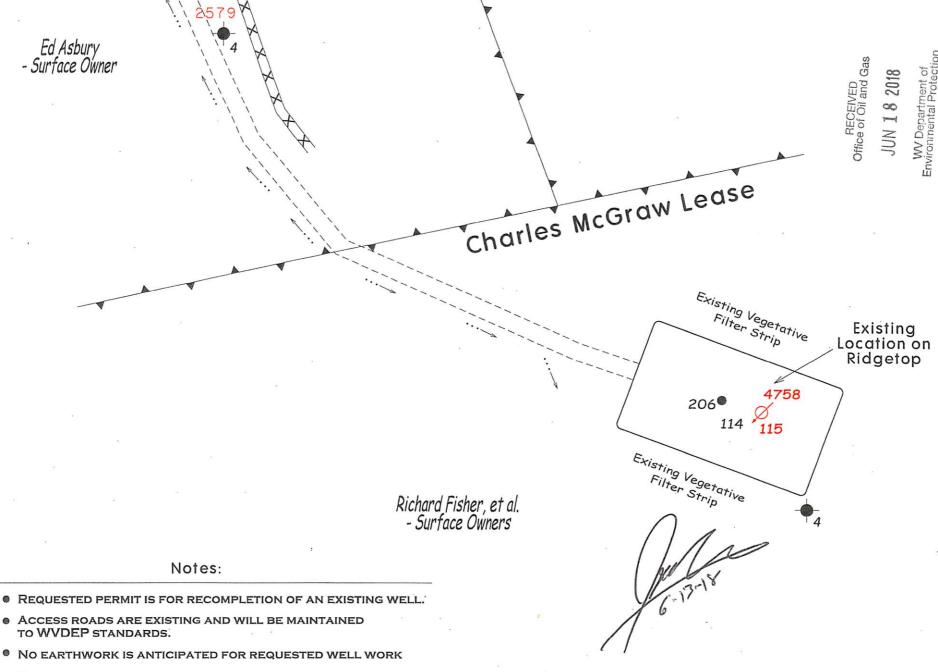
47-087-04758

NOTE

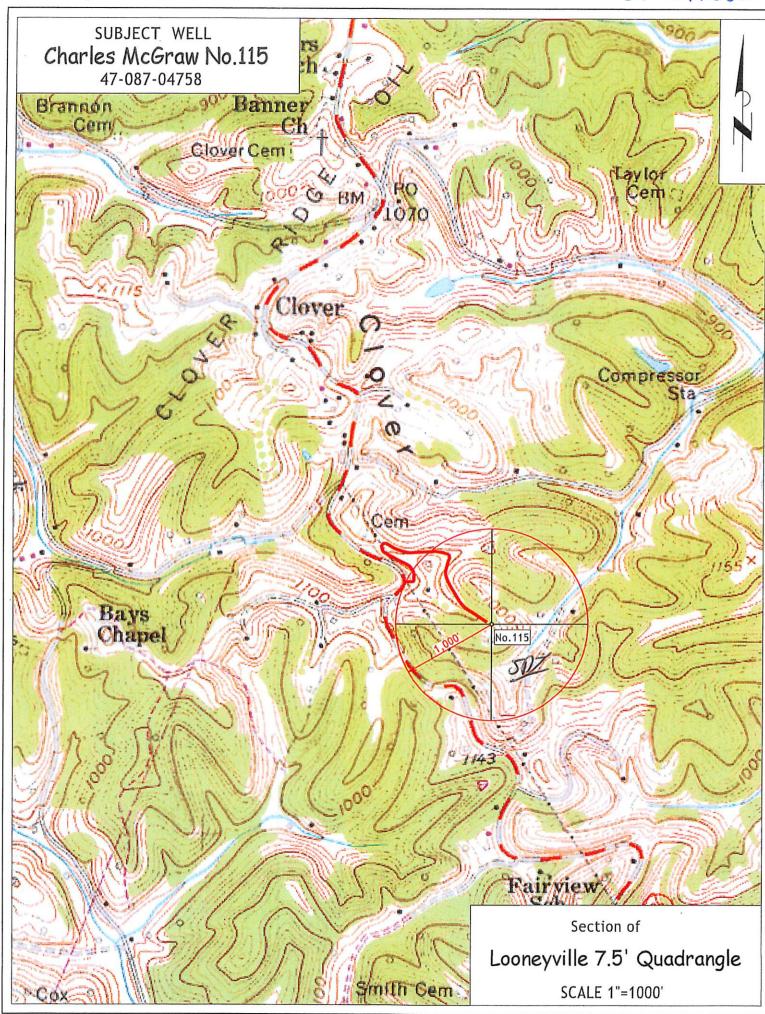
EROSION AND SEDIMENT CONTROL
FIELD MANUAL VER. MAY 2012 FOR
BMPS CONTROLLING EROSION AND
SEDIMENT FROM SOIL-DISTURBING
OPERATIONS.

Ed Asbury - Surface Owner

Note
Access roads and Drill Site were constructed in 2015 for the drilling of the subject well.
All structures are in place and will be maintained



- No PIT WILL BE REQUIRED FOR REQUESTED WELL WORK.
- ANY DISTURBED AREAS WILL BE RE-VEGETATED AS OUTLINED ON FORM WW-9.
- MAINTAIN SEDIMENT BARRIERS AND DRAINAGE STRUCTURES.
- DRAWING NOT TO SCALE.



Parkersburg, WV 26101

Parkersburg, WV 26101

51.94"

42

As Drilled Latitude = 38°