

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

Harold D. Ward, Cabinet Secretary www.dep.wv.gov

Monday, February 1, 2021 WELL WORK PERMIT Vertical / Re-Work

HG ENERGY, LLC 5260 DUPONT ROAD PARKERSBURG, WV 26101

Re: Permit approval for CHARLES MCGRAW 205 47-087-04748-00-00

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: CHARLES MCGRAW 205 Farm Name: SNODGRASS, REVA ET AL

U.S. WELL NUMBER: 47-087-04748-00-00

Vertical Re-Work Date Issued: 2/1/2021

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.

Depths Set

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WELL WORK PERMIT APPLICATION

Operator ID County District Quadrangle Operator's Well Number: C. H. McGraw 205 3) Elevation: 1120' Well Type: (a) Oil_x_ or Gas (b) If Gas: Production_x_ / Underground Storage Deep/ Shallow_x Proposed Target Formation(s): Big Injun Proposed Target Depth: 2396' Proposed Total Depth: 2601' Feet Formation at Proposed Total Depth: Shale Approximate fresh water strata depths: None Approximate salt water depths: 1820' Approximate coal seam depths: None Approximate void depths, (coal, Karst, other): NA DEC 16 20 Describe proposed well work and fracturing methods in detail (attach additional sheets if needed) ental Proposed Induction well in the Big Injun. Stimulation will be small hydraulic fracture. Proposed Target Depth: 2396' Proposed Target Depth: 2396' Proposed Target Depth: 2396' Proposed Target Depth: 2396' Proposed Target Depth: 2496' Proposed Target Dept	Well Operato	r: HG En	erav, LL	С	494497948	Lincoln	Duval	Griffithsville 7.5'
(b) If Gas: Production / Underground Storage / Shallow _x / Underground Storage / Shallow _x _x / Shallow _x _x / Shallow _x _x / Shallow _x _x _x / Shallow _x		27.6 724	0,7		Operator ID	County	District	Quadrangle
(b) If Gas: Production x / Underground Storage) Operator's W	Vell Numbe	er: <u>C. H.</u>	McGraw 205		3) Elevation:	1120'	-
Deep/ Shallow _x	Well Type: (a	a) Oil <u>×</u>	_ or Ga	s				
Proposed Target Formation(s): Big Injun Proposed Target Depth: 2896' Feet Pormation at Proposed Total Depth: Shale Proposed Total Depth: 1820' Approximate fresh water strata depths: 1820' Approximate coal seam depths: 1820' Approximate void depths, (coal, Karst, other): NA DEC 1 6 20 1) Does land contain coal seams tributary to active mine? NA DEC 1 6 20 Describe proposed well work and fracturing methods in detail (attach additional sheets if newded) entire the Big Injun. Stimulation will be small hydraulic fracture. 2396' - 2414' MI Extensive Percentage 3) Casing and Tubing Program Type Specifications Footage Intervals CEMENT Type Specifications Footage Intervals CEMENT Conductor 11 5/8" LS 30' 30' Sand In Fresh Water 7" LS 17# 550' 550' CTS Coal Intermediate Production 4 1/2" J-55 10.5# 2540.8' 2540.8' 150 sks Tubing Liners Packers: Kind:	(b) If Gas:	Produ	ction <u>×</u> / Unc	derground Sto	rage		
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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 -	04/40	COHILLY		District SMITE		
API 47 - 007 - 1 Quad LOONEYVILLE	7.5'	Pad Name CHARL	ES MCGRAW	Field/Pool Nan	cLOVER	
Quad LOONE VIELE Farm name SNODGRAS	S REVAE	TAL		Well Number	205	
Parm name SNOBOTO REPORTED TO A STATE OF THE		H.G. ENERGY LLC	Ž.			
Operator (as registered WI	th the OOG) _	City PAR	KERSBURG	State WV	Zip	26101
Address 5260 DuPON	TONE	City				
AN ACCOUNT	D 83/UTM	Attach an as-drilled orthing 4,285,358 M	l plat, profile view	v, and deviation surv Easting 475,291 M	vey	
Landing Point of	*	orthing		Easting		
Botton	n Hole No	orthing 4,285,120 M		Easting 475,300 M		
Blevation (ft) 1,110'	GL	Type of Well	New □ Existing		Report □Interim	The same factors
Permit Type 📱 Devia					saule = Stimu	late
Гуре of Operation □ Co	nvert 🗆 De	epen 🛮 Drill 🗆	Plug Back 🗆 1	Redrilling Rev	work — Dannu	illio.
Well Type □Brine Disp	osal п CBM	□ Gas ■ Oil □ Seco	ondary Recovery	□ Solution Mining	☐ Storage ☐	Other
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□ Yes ■ No

TYPE OF TRACER(S) USED

□ Yes 🖪 No

DETAILS

DETAILS

WAS WELL COMPLETED AS SHOT HOLE

WAS WELL COMPLETED OPEN HOLE?

WERE TRACERS USED - Yes No



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WV Department of

- Environmental Protection

WR-35 Rev. 8/23/13

API 47- 087 _ 04748

Farm name_SNODGRASS, REVA ET AL

_Well number_205

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	4/28/15	2396'	2406'	40	Big Injun
-					
1110					
-					
111					
1 7 11					
TITLE					

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

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 Nitrogen/other (units)
		1360	3119	365	2,500	153	NT THE PARTY
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	Stimulations Date 4/30/15	Date Rate (BPM) 4/30/15 5	Date Rate (BPM) Pressure (PSI) 4/30/15 5 1360	Date Rate (BPM) Pressure (PSI) Pressure (PSI) 4/30/15 5 1360 3119	Date Rate (BPM) Pressure (PSI) Pressure (PSI) ISIP (PSI)	Date Rate (BPM) Pressure (PSI) Pressure (PSI) ISIP (PSI) Proppant (lbs)	Stimulations Date Rate (BPM) Pressure (PSI) Pressure (PSI) ISIP (PSI) Proppant (ibs) Water (bbls)

Please insert additional pages as applicable.

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Page 4 of 4 WR-35 Rev. 8/23/13 API 47- 087 - 04748 Farm name SNODGRASS, REVA ET AL Well number 205 PRODUCING FORMATION(S) **DEPTHS** 2158'- 2178' 2386'- 2414' Big Injun TVD · MD Please insert additional pages as applicable. GAS TEST □ Build up □ Drawdown □ Open Flow OIL TEST □ Flow □ Pump DURATION OF TEST _____ hrs SHUT-IN PRESSURE Surface psi Bottom Hole psi Oil NGL Water **OPEN FLOW** Gas GAS MEASURED BY □ Estimated □ Orifice □ Pilot bpd bpd bpd mcfpd LITHOLOGY/ TOP **BOTTOM** TOP BOTTOM DESCRIBE ROCK TYPE AND RECORD QUANTITY AND DEPTH IN FT **FORMATION** DEPTH IN FT DEPTH IN FT DEPTH IN FT NAME TVD TVD MD MD TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H2S, ETC) 996 Sand/Shale 994 0 0 1102 Sand 994 1098 996 1098 1183 1102 1190 Shale 1190 1386 Sand 1183 1374 1374 1686 1386 1736 Shale Sand 1686 1993 1736 2152 Little Lime 1993 2007 2152 2172 Pencil Cave 2007 2015 2172 2184 2015 2132 2184 2350 Big Lime Keener 2132 2158 2350 2386 2158 2178 2386 Drilled directional S 6° E a distance of 728' Big Injun 2414 Shale 2178 2305 2414 2601 TD 2305 2601 Please insert additional pages as applicable. Drilling Contractor Decker Drilling State OH Zip 45784 Address 11565 State Route 676 Vincent City Logging Company Weatherford International RECEIVED Address 777 North River Avenue Zip 26452 State WV City Weston Office of Oil and Gas Cementing Company Universal Services DEC 1 6 2020 Zip 26201 Address Hall Rd Buckhannon _ State WV City WV Department of Stimulating Company Producers Service Corp. Environmental Protection Address 109 South Graham Street City Zanesville State OH

Title Operations Manager

Submittal of Hydraulic Fracturing Chemical Disclosure Information

Please insert additional pages as applicable.

Completed by Roger Heldman

Signature

Attach copy of FRACFOCUS Registry

Telephone 304-420-1107

JOT

Form	WW-2A(1)
(10/10	0)

Operator's Well No.	C H McGraw 205	
ODCIALOI S WELLING.	C II MCGiaw 203	

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6, Section 8(d) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that --

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page	
C.H. and Mary McGraw	South Penn Oil Company	1/8	17/570	

Merger and Conveyance dated July 3, 1963, from South Penn Oil Company to Penzoil Company, Kanawha County, Book 153, Page 35,

RECEIVED
Office of Oil and Gas

Assignment, Conveyance and Bill of Sale dated December 28, 1998, from Pennzoil Company to Pennz Energy Exploration and Production, Wetzel County, Book 12, Page 177.

DEC 16 2020

Certificate of Merger filed with the WV Secretary of State, December 31, 1999, whereby Pennz Energy Exploration and Production, successor in interest to; to Penzoil Company, merged with Devon Energy Production Company, LP, Wetzel County, Book 12, Page 278.

WV Department of Environmental Protection

Deed, Assignment and Bill of Sale dated June 1, 2000, from Devon Energy Production Company, LP to East Resources, Inc., recorded in Wetzel County, Book 370, Page 580.

Assignment, Conveyance and Bill of Sale, dated January 1, 2011, from East Resources, Inc., to HG Energy, LLC, Wetzel County, Book 118A, Page 253.

Upon information and belief, Operator's lease and/or other real property rights permit it to conduct drilling operations for the subject well in the location shown on the plat, including the use of access roads, pipelines and utilities.

Acknowledgement of Possible Permitting/Approval In Addition to the Office of Oil and Gas

The permit applicant for the proposed well work addressed in this application hereby ackowledges the possibility of the need for permits and/or approvals from local, state or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

WV Division of Water and Waste Management WV Division of Natural Resources WV Division of Highways U.S. Army Corps of Engineers US Fish and Wildlife Service County Floodplain Coordinator

Well Operator:	HG Energy, LLC	
By:	Diane C. White	Diane C Whit
Ite:	A ccountant	

WW-2	AS
(Rev.	6-14)

November 23, 2020 1). Date:

2.) Operator's Well Number

C. H. McGraw 205

State

County

Permit

3.) API Well No .:

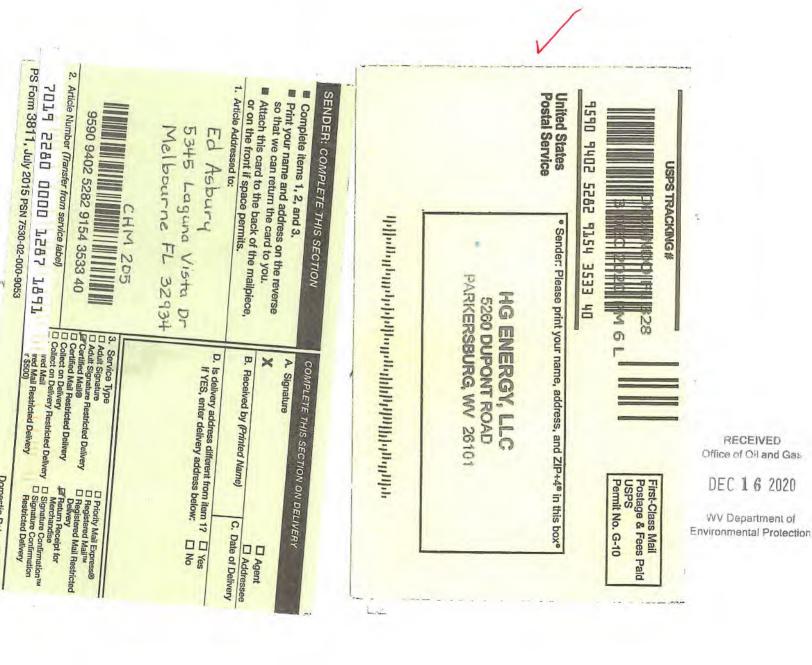
47-

04748

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE AND APPLICATION FOR A WELL WORK PERMIT

	mer(s) to be served:		5) (a) Coal Op		
(a) Name	Ed Asbury	/	Name	NA	
Address	5345 Laguna Vista D Melbourne, FL 32934		Address	-	
21.5.51	Melbourne, FL 32932	1	- (h) Coal C	wner(s) with Declaration	
(b) Name			Name	NA	
Address				INA	
			Address	V-	RECEIVED
			Stanta -	-	Office of Oil and Gas
(c) Name			Name		
Address			Address		DEC 1 6 2020
6) Inspector	Joe Taylor	1	(c) Coal L	essee with Declaration	yvy Department of
Address	1478 Claylick Road	101	Name	NA	Environmental Protection
riadioce	Ripley, WV 25271	10	Address		
Telephone	304-380-7473	1			
relephone	TO THE PERS	ONS NA	MED ABOVE T	AKE NOTICE THAT:	
Included in t	ha lasse or lesses or other	continuing	contract or contr	acts by which I hold the righ	it to extract oil and gas
OB					
OR Included is t	he information required by	Chapter 22	Article 6. Section	on 8(d) of the Code of West	Virginia (see page 2)
Included is t	that as required under Ch	onter 22-6	of the West Virg	ginia Code I have served co	opies of this notice and
r certify	that as required under on	ina docume	ents names 1 thro	ough on the above name	ed parties by:
application, a loc	Personal Service (Af	fidavit attac	thed)		
-	O CE - I M-II /Destre			ed)	
-	Publication (Notice of	f Dublicatio	a receipt attach	54)	
Vac. 25.5	Publication (Notice of	r 22 6 one	1 2E CSD 4 and	I agree to the terms and	conditions of any permit
		er 22-6 and	1 35 CSN 4, and	in agree to the terms and	conditions of any persons
issued under thi	s application.	hous porc	anally ovaminad	and am familiar with the ir	formation submitted on
I certify	under penalty of law that I	nave pers	onally examined	iry of those individuals imm	ediately responsible for
this application	ormation, I believe that the	information	ie true accurate	and complete	
obtaining the ini	ormation, I believe that the	at penalties	for submitting f	alse information, including the	ne possibility of fine and
	rare that there are significan	it perialties	ior addiniting in	also intomitation, more and	re Personal State of the Personal State of t
imprisonment.	We	II Operator	HG Energy,	LIC	
مممم			Diane White		
	OFFICIAL SEAL OF WEST VIRGINIA		Agent	Ration Co. To the Co.	
0 1 2 2 2 2 - 10 2 1 - 0	OTARY PUBLIC		5260 Dupon	t Pood	
The same of the sa	DY A. BOARDMAN	Address.	Parkersburg		
	Ave Vienna, WV 26105 sion Expires July 31, 2022	e na Araba			
iviy Continus:	Sion Expires duly 31, 2022		304-420-111		
			dwhite@hae		
Subscribed and	sworn before me this 23	rd day of	November	er +	
	Cassid	A. Bec	An	Notary Public	
My Commission	Expires 1/31/2022			11.000.00	
Oil and Gas Privac	y Notice				
The Office of Oil ar	nd Gas processes your personal	Information,	such as name, add	iress and phone number, as a pa	art 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 depprivacyofficer@wv.gov





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

November 23, 2020

Ed Asbury 5345 Laguna Vista Drive Melbourne, FL 32934

RE:

C. H. McGraw No. 205

Smithfield District, Roane County

West Virginia

Dear Landowner:

Enclosed are copies of various application papers that we have filed with the West Virginia Department of Environmental Protection (WVDEP), Office of Oil and Gas. A well work permit is being requested for the above-referenced well.

Pursuant to WV Code Chapter 22B, Article 6, you are receiving copies of this correspondence because the well or other anticipated disturbance is located on your surface property. Your rights as a landowner are detailed in the enclosed permit application papers.

No action on your part is required. If you have any questions or comments regarding this application, you may call this office at (304) 420-1119.

Very truly yours, Diane White

Diane C. White

Office of Oil and Gas

DEC 1 6 2020

WV Department of Environmental Protection

Enclosures

WW-2A Surface Waiver (4/16)

	SURFACE OWNE	R WAIVER		
087	•		Ob subs a Nu	1- C 20F
	Operato	or well nur	mber <u>Charles iv</u>	ICGraw 205
INSTRUCTIONS	TO SURFACE OWNE	ERS NAME	D ON PAGE WW2-A	
tract is owned by more tha he Sheriff's tax ticket on the rner who will actually received months. If you do not own you know who it is. Also, p NOTE: YOU	n three persons, then a land or because you a these materials.) See any interest in the surflease notify the well op ARE NOT REQUIRED	these mate actually occ contact Chapter 22 face tract, place and to TO FILE A	rials were served on you upy the surface tract. In 2 of the West Virginia Cocease forward these mate he Office of Oil and Gas.	because your name either case, you may le. Well work permits rials to the true owner
				MU/ Danarina and
				WV Department of Environmental Protection
his Application. You have F son or received in the mail I date. Check with your postreen contacted by the well oped in these materials, then the ments must be in writing. The and well number and the ments the power to deny the proposed well work will che soil erosion and sediment amage would occur to public the proposed well work fails the applicant has committed at the rules promulgated under the Chief. In Water Testing Laborator at the contact of the soil work fails the chief. In Water Testing Laborator at the Chief. In Water Testing Laborator at the WW2-B, a survey plat, Water in.	by the Chief's office by master to ensure adequerator and you have sign approximate location approximate location approximate location approximate location and to condition a well work to condition a well work to control plan is not adoly owned lands or rest to protect fresh water so a substantial violation of the Chapter 22, and has as it is issued or a confice. The Office mainty prior to and after drill approximate to surface instructions to surface m WW2-A, and attach V-9, and a soil and erose	fter the filing the time structe delivery gned a "volu d at any time of the proposes, maps or k permit base as a fety of equate or effources; sources or sof a previous failed to about ains a list or ing. Contact OF NO OE e owners a ments consision plan, al	date to file your commerated above. You may can time or to arrange special ntary statement of no object. In ame, address and telephosed well site including disphotographs to support your good on comments on the spersons. If ective; If permit or a substantial vict ate or seek review of the order denying the permit, of water testing laboratories the Chief to obtain a consultation of pages 1 through I for proposed well work of the proposed well well well and the proposed well well and the proposed well well	nts. Comments must all the Chief's office to al expedited handling. ection" to the planned mone number, the well strict and county from your comments. following grounds: olation of one or more violation". you should request es which you can hire py. opies of a Notice and including a work on my surface land as
er state that I have no object	tion to the planned wo	rk described	d in these materials, and	I have no objection to
FION BY A NATURAL PERS	SON	FOF	R EXECUTION BY A COF	RPORATION, ETC.
0:	Date	Company Name	NA	
Signature		By Its		Date
	_			
Print Name			Signature	Date
offer of the state	rell operator named on page tract is owned by more than the Sheriff's tax ticket on the more who will actually received months. If you do not own you know who it is. Also, porter YOU WHERE TO FILE Conf Oil and Gas and methods for filing complete the contacted by the well open din these materials, then the ments must be in writing. The proposed well work will contacted by the well open din these materials, then the ments must be in writing. The proposed well work will contacted by the well open din these materials, then the ments must be in writing. The proposed well work will contact the contact of the proposed well work will contact the contact of the proposed well work fails the chief. The water Testing Laborator are to establish water quality work that I have read the proposed well work permit the Chief. The water Testing Laborator are to establish water quality work permit on Form the work water that I have no object the contact that I have moterials.	INSTRUCTIONS TO SURFACE OWNI INSTRUCTIONS TO SURFACE OWNI INSTRUCTIONS TO SURFACE OWNI Interest in the surface of the surface of the Sheriff's tax ticket on the land or because you are who will actually receive these materials.) See a months. If you do not own any interest in the surface of the surface	INSTRUCTIONS TO SURFACE OWNERS NAME: INSTRUCTIONS TO SURFACE OWNERS NAME: Instruct is owned by more than three persons, then these mate he Sheriff's tax ticket on the land or because you actually occurre who will actually receive these materials.) See Chapter 22 the months. If you do not own any interest in the surface tract, playou know who it is. Also, please notify the well operator and to NOTE: YOU ARE NOT REQUIRED TO FILE A WHERE TO FILE COMMENTS AND OBTAIN ADDIT of Oil and Gas is Environmental Protection. If Oil and Gas is Environmental Protection of Hill and Protection. If Oil and Gas is Environmental Protection of Hill and Protection. If Oil and Gas is Environmental Protection of Hill and Pr	INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW2-A tell operator named on page WW2A is applying for a permit from the State to do oil or of tract is owned by more than three persons, then these materials were served on you he Sheriff's tax ticket on the land or because you actually occupy the surface tract. In mer who will actually receive these materials.) See Chapter 22 of the West Virginia Coo. It months. If you do not own any interest in the surface tract, please forward these materials you know who it is. Also, please notify the well operator and the Office of Oil and Gas. NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT. WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION: If Oil and Gas Environmental Protection E V 25304 On the mail by the Chief's office by the time stated above. You may ca date. Check with your postmaster to ensure adequate delivery time or to arrange specie en contacted by the well operator and you have signed a "voluntary statement of no object of in these materials, then the permit may be issued at any time. In you may add other documents, such as sketches, maps or photographs to support you he soil erosion and sediment control plan is not adequate or effective; amage would occur to publicly owned lands or resources; the proposed well work fails to protect fresh water sources or supplies; he applicant has committed a substantial violation of a previous permit or a substantial vicit the rules promulgated under Chapter 22, and has failed to abate or seek review of the want a copy of the permit as it is issued or a copy of the order denying the permit, the Chief. If Water Testing Laboratories. The Office maintains a list of water testing laboratories are to establish water quality prior to and after drilling. Contact the Chief to obtain a concern that the permit as it is issued or a copy of the order denying the permit, the Chief. If Water Testing Laboratories. The Office maintains a list of water testing laboratories are to establish water quality prior to and after dril

WW-9 (5/16)

API Number 47 - (087	_ 04748	
Operator's Well No.	Charle	es McGraw 205	

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS FILIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

4	OP Code 494497948
Operator Name HG Energy, LLC	Quadrangle Looneyville 7.5'
Watershed (HUC 10) Rush Run	
Do you anticipate using more than 5,000 bbls of wall will a pit be used? Yes No V	And Well Efficient must be countries in Tanks before pisfosing off-site. If any fluids or cuttings are encountered while stimulating the production well, they'll be hauled for disposal
Will a synthetic liner be used in the pit? You	
Proposed Disposal Method For Treated Pit	Wastes:
Land Application (if sele	cted provide a completed form WW-9-GPP)
Underground Injection (Reuse (at API Number	UIC Permit Number)
Off Site Disposal (Suppl	y form WW-9 for disposal location)
	RECEIVED
Will closed loop systembe used? If so, describe: N	
Drilling medium anticipated for this well (vertical a	nd horizontal)? Air, freshwater, oil based, etc. Air, Fresh Water DEC 1 6 2020
-If oil based, what type? Synthetic, petrole	eum, etc. NA WV Department of
Additives to be used in drilling medium? Water, So	ap, KCI Environmental Protec
Drill cuttings disposal method? Leave in pit, landfil	l, removed offsite, etc. If any fluids or cuttings; remove offsite
	ium will be used? (cement, lime, sawdust) NA
-Landfill or offsite name/permit number?	
Permittee shall provide written notice to the Office West Virginia solid waste facility. The notice shall where it was properly disposed.	of Oil and Gas of any load of drill cuttings or associated waste rejected at any be provided within 24 hours of rejection and the permittee shall also disclose
on April 1, 2016, by the Office of Oil and Cas of the provisions of the permit are enforceable by law. Visor regulation can lead to enforcement action. I certify under penalty of law that I have application form and all attachments thereto and the	
Company Official (Typed Name) Diane White	
Company Official Title Accountant	
	501
Subscribed and sworn before me this 23rd	_ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
Cassing A.Ba	Notary Public OFFICIAL SEAL STATE OF WEST VIRGINIA
Cassing A.Ba	NOTARY PUBLIC CASSIDY A. BOARDMAN 5301 13th Ave Vienna, WV 26105 My Commission Expires July 31. 202:

Proposed Revegetation Treatm	nent. Acres Disturbed		Н		
Lime	3 Tons/acre or to correc	et to pH 6.5			
Fertilizer type 10-2	20-20				
Fertilizer amount_	Fertilizer amount				
Mulch_ Straw	2	Tons/acre			
		Seed Mixtures			
Ten	nporary	Perm	anent		
Seed Type	lbs/acre	Seed Type	lbs/acre		
Tall Fescue	40	Tall Fescue	40		
Ladino Clover	5	Ladino Clover	5		
Attach: Maps(s) of road, location, pit provided). If water from the p	and proposed area for lan oit will be land applied, pr	Id Be In Place At All Times - ad application (unless engineered plans inch ovide water volume, include dimensions (I	RECEIVED		
Attach: Maps(s) of road, location, pit provided). If water from the p (L, W), and area in acres, of t	and proposed area for lan pit will be land applied, pr the land application area.	nd application (unless engineered plans incl povide water volume, include dimensions (I	, w, D) of the pit, and dimensions		
Attach:	and proposed area for lan pit will be land applied, pr the land application area.	nd application (unless engineered plans incl povide water volume, include dimensions (I	RECEIVED		
Attach: Maps(s) of road, location, pit provided). If water from the p (L, W), and area in acres, of t	and proposed area for lan pit will be land applied, pr the land application area.	nd application (unless engineered plans incl povide water volume, include dimensions (I	RECEIVED Office of Oil and Ga DEC 16 2020		
Attach: Maps(s) of road, location, pit provided). If water from the p(L, W), and area in acres, of the Photocopied section of involved plan Approved by:	and proposed area for lan pit will be land applied, pr the land application area. wed 7.5' topographic sheet	nd application (unless engineered plans incl povide water volume, include dimensions (I	RECEIVED Office of Oil and Ga		
Attach: Maps(s) of road, location, pit provided). If water from the p (L, W), and area in acres, of t Photocopied section of involv	and proposed area for lan pit will be land applied, pr the land application area. wed 7.5' topographic sheet	nd application (unless engineered plans incl povide water volume, include dimensions (I	RECEIVED Office of Oil and Ga DEC 16 2020		
Attach: Maps(s) of road, location, pit provided). If water from the p (L, W), and area in acres, of t Photocopied section of involv	and proposed area for lan pit will be land applied, pr the land application area. wed 7.5' topographic sheet	nd application (unless engineered plans incl povide water volume, include dimensions (I	RECEIVED Office of Oil and Ga DEC 16 2020		
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WW-9- GPP Rev. 5/16

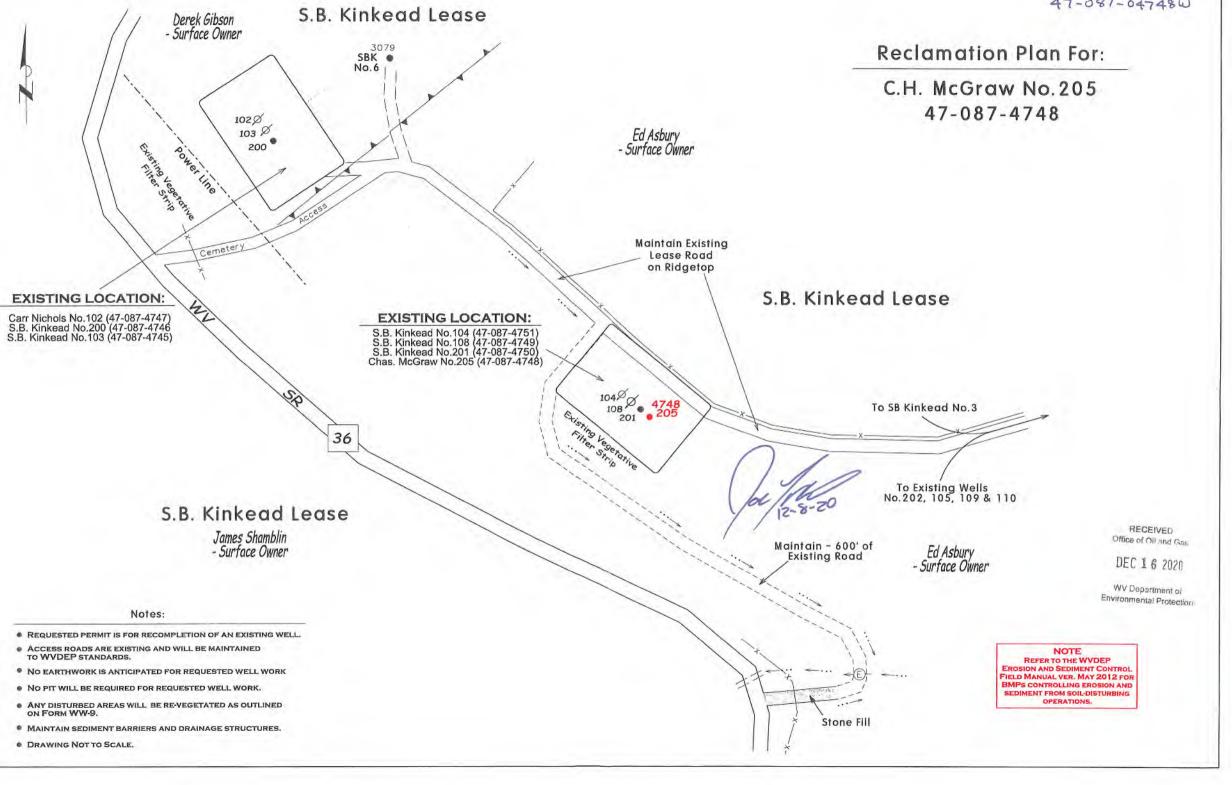
H	Page	L	of	2
API Number 47 -	087	-		nergy, LL
Operator's Well No	Charle	s McG	raw 20	5

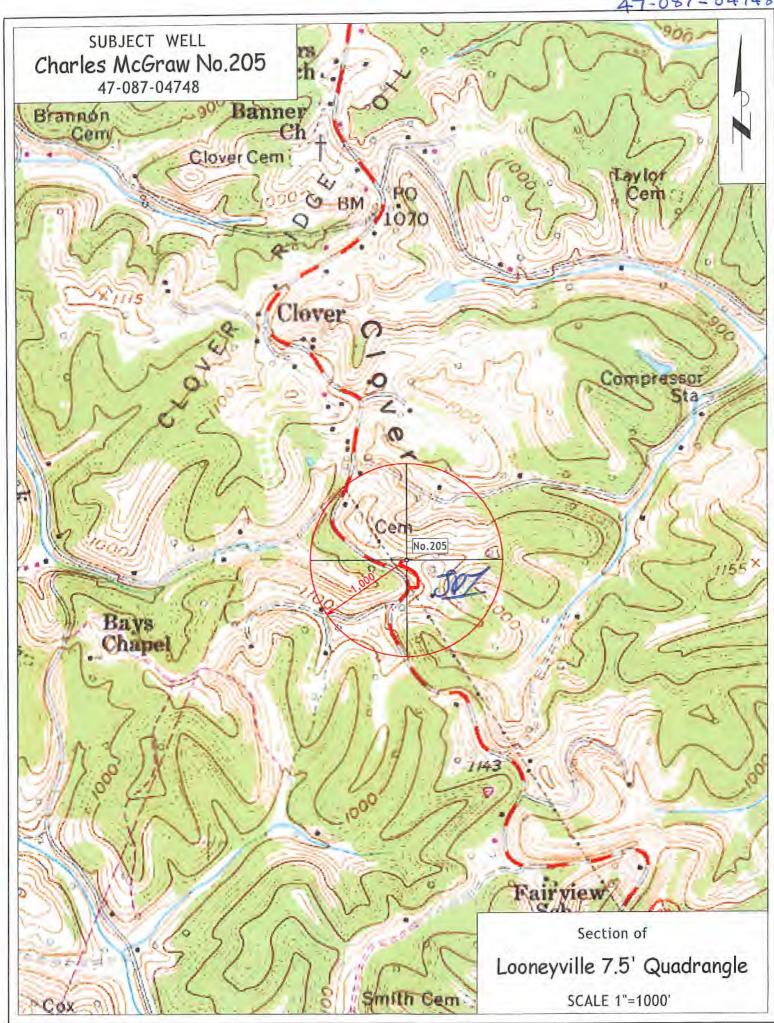
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS GROUNDWATER PROTECTION PLAN

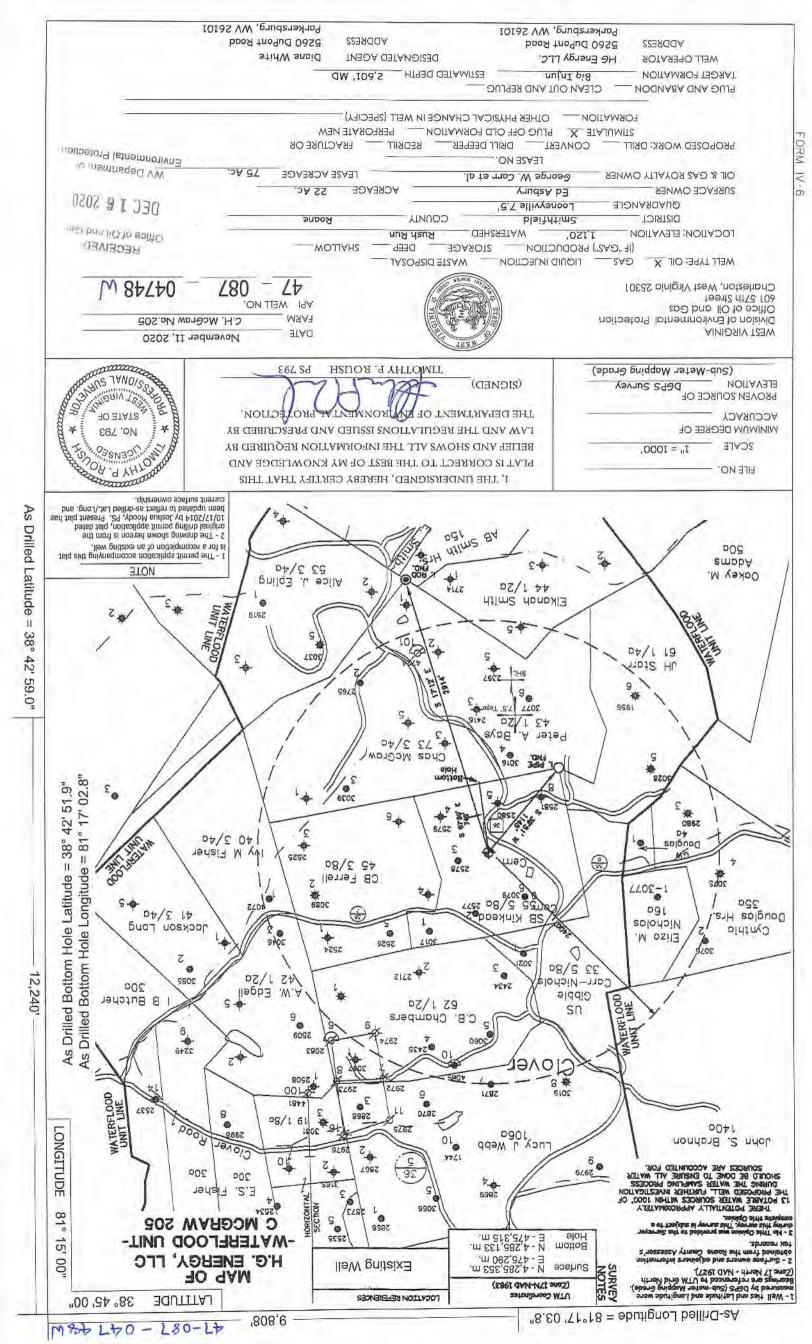
Quad: Looneyville 7.5'
luids. Include a list of all operations that could contaminate the
ater quality from the list of potential contaminant sources above.
y, and distance from closest Well Head Protection Area to the
RECEIVED Office of Oil and G
DEC 1 6 202
WV Department of Environmental Prote
lated for groundwater protection.
72

5. Discuss any existing groundwater quality data for your facility or an adjacent property.

W-9- GPP	API Number 47 -	2 01 2
ev. 5/16	Operator's Well No. Charle	es McGraw 205
NA		
Provide a statement that no waste material will	be used for deicing or fill material on the property.	
NA		
Describe the groundwater protection instruction provide direction on how to prevent groundwater	on and training to be provided to the employees. Job ter contamination.	procedures shall
NA		
	×	
		RECEIVED
Provide provisions and frequency for inspecti	ons of all GPP elements and equipment.	DEC 1 6 20
NA		WV Departmen Environmental Pro
Signature: Diane White	_	
Date: 11-23-2020		











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

November 23, 2020

Check # 4858 11/24/2020 9550.00

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

RE:

C. H. McGraw No. 205

Smithfield District, Roane County

West Virginia

Dear Mr. McLaughlin:

Enclosed are the Forms WW-2A, WW-2A (1), WW-2B, WW-9, mylar of plat, reclamation plan, topo map and copy of the certified mailing receipt for a permit to stimulate the above-captioned shallow, producing well. Also enclosed is a check in the amount of \$550.

If you have any questions regarding this application, please call me at 304-420-1119.

RECEIVED
Office of Oil and Gas

Very truly yours, Diane White DEC 1 6 2020

WV Department of Environmental Protection

Diane C. White

Enclosures

cc:

Ed Ashbury - Certified Joe Taylor - Inspector