

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

Friday, June 14, 2019 WELL WORK PERMIT Vertical / Convert

HG ENERGY, LLC 5260 DUPONT ROAD

PARKERSBURG, WV 26101

Re:

Permit approval for C.B. CHAMBERS 8 47-087-02973-00-00

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.B. CHAMBERS 8

Farm Name:

WILLIAM R. ELMORE

U.S. WELL NUMBER: 47-087-02973-00-00

Vertical Convert

Date Issued: 6/14/2019

47-087-02973S 06/14/2019



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. <u>Failure to adhere to the specified permit conditions may result in enforcement action.</u>

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.

FORM WW-3 (B) 1/12



1) Date: 04/05/201	9					
2) Operator's Well N	Vo.	C. B	3. Chambers 8		*	
3) API Well No.:	47	-	Roane	-	02973	
	State	•	County		Permit	
4) UIC Permit No.	UIC2E	00870	985			

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:	Liqui		n 🗸]_/		tion (not storage tershed: Ru	ge)	/ W	aste Disposal	
6) LOCATION:	Elevation District:		ald.			to the second se	1511 IXUII	Quadran	igle Looneyville 7	, 5'
7) YURI I ODED A					Col	anty Roane 8) DESIGNA	TED AGE			
7) WELL OPERA						o) DESIGNA	Addres		pont Road	
Add		60 Dupont F					Addies		urg, WV 26101	
		rkersburg, V		ED		10) DDII I D	IC CONTE		dig, VV 20101	
9) OIL & GAS IN		K 10 BE	NOTIFI	ED		10) DRILLIN			I Of Permit	
Name Joe Tay							Be Determined	d Upon Approva	I OI FeIIIIL	
	aylick Road					Address				
Ripley, V	VV 25271				-					
11) PROPOSED V	VELL WO		Drill Plug off o			/ Perfo	/ Red	- Company of the Comp	/ Stimu Con	
	A D OEM	TODA (A)		•	change in v	vell (specify)	0074	Feet (top) to 2102 F	eet (bottom)
12) GEOLOGIC T	ARGET	FORMA	TION BIG	injun	11 C	Depth) 10 2102 1	eet (bottom)
13) Estimated Dep								Feet	Feet	
14) Approximate v				esh NA		Feet	Salt _	INA	reei	
15) Approximate of			NA		NT.					
16) Is coal being n	nined in th	he area?	Yes	1050	_ No .				•	
17) Virgin reservo					psig	g Source	Estimated		ngio	(DLIED)
18) Estimated rese					TONG I	1 1	05.441	DOM:		g (BHFP) 2400 psi
19) MAXIMUM F	KOPOSE	ED INJEC	OF MA	PEKAI	IONS: A	olume per nou			ole pressure S Fresh water, p	
20) DETAILED II water, bactericides a 21) FILTERS (IF	DENTIFI	CATION	OF MA	LEKIAL	STOBELL	NJECTED, IN	CLODING	ABULINE	S Fresh water, p	iloduced
water, bactericides a	and other che	micals as ne	eded to mai	ntain wate	r quality and im	prove oil recovery	7	· Oz	- 10/2	
21) FILTERS (IF	ANY) _C	artridge filter	rs	0 777 01		omma don:	TO CALL	ION THE OF	2	
22) SPECIFICAT	IONS FO	R CATH	ODIC PR	OTEC.	IION AND	OTHER COR	ROSION C	CONTROP		
and Granta Library	TI DD IO T	DOCD 43	·				9	•		
23) CASING AND	LOBING F	ROGRAN	<u>/1</u>			1		1		manager and
CASING OR			ECIFICATI	T	77 1	FOOTAGE IN		CEMENT FILL -UP	PACK	ERS
TUBING TYPE	Size	Grade	Weight	New	Used	For Drilling	Left In Well	1		
			per ft.				wen	OR SACKS (CU. FT.)		
Conductor								(66,11.)	Kinds	
Fresh Water	8 5/8"	LS	17#	N		382'	382'	175 sks	Parmaco Ter	sion Packer
Coal	0 0/0		1711			002		170 0110	Sizes	
Intermediate				<u> </u>					4" x	2"
Production	4 1/2"	J55	10.5#	N	 	2147'	2147'	50 sks	Depths set	
Tubing	2 3/8"	J55	4.7#	N		2000'	2000'	00 313	200	10'
Liners	2 0/0			- ''	-	2000	2000		Perforations	,,,
Emers									Top 2074	Bottom 2098
				-				-	1002014	Doubli Zoq
24) APPLICANT'	S ODED	TING P	IGHTC **	l vere occ	uired from	CB Chambers e	t al	1	II	
	/ le						07/22/1909		of re	ecord in the
Roane	/ 16				fice in Lea		0112211909	Book 16		ge 147
Noane			ounty CR	LID & ALL	LICC III Lea			טו אטטע	ras	U 177



McLaughlin, Jeffrey W

From:

Diane White <dwhite@hgenergyllc.com>

Sent:

Wednesday, June 05, 2019 11:52 AM

To:

McLaughlin, Jeffrey W

Subject:

FW: CB Chambers 8 Conversion

Jeff,

See Roger's response below. If you need more information please let me know and

I'll talk with him again.

Thanks, Diane

From: Roger L. Heldman < rheldman@hgenergyllc.com>

Sent: Tuesday, June 4, 2019 4:50 PM

To: Diane White <dwhite@hgenergyllc.com> **Subject:** RE: CB Chambers 8 Conversion

Big Injun perforations 2074'-2098'

From: Roger L. Heldman < rheldman@hgenergyllc.com >

Sent: Tuesday, June 4, 2019 11:00 AM

To: Diane White < dwhite@hgenergyllc.com >
Subject: Re: CB Chambers 8 Conversion

I will check when I get back. I would have thought pets were on well record

Roger Heldman

On Jun 4, 2019, at 9:25 AM, Diane White dwhite@hgenergyllc.com wrote:

Roger,

Jeff has a question about the perforations on the CB Chambers 8 – specifically the Big Injun I think. He wants to know where they are.

If you won't be in the office today, can you give me a call or you can give Jeff a call.

Thanks,

Diane

Diane C. White

<image001.jpg>

HG Energy, LLC

5260 Dupont Road Parkersburg, WV 26101 304-420-1119 (O) 304-482-0108 (C) dwhite@hgenergyllc.com

Final open flow,

Time of open from become in tital and final tests. hours FORM IV-35 (Reverse)

4. \$

[08-78]

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Fractured w/750 gals. 15% HCL, 114BW, 1000# 20/40 sd.

06/14/2019

WELL LOG

		1.			
FORMATION		llard or	42	Bottom	Remarks Including indication of all fresh
Shale & Silts	Color	Soft	Top Feet		and salt water, coal, cil and gas
Sand		i	0	1	
Shale & Silts			288		
Sand			303		
Shale			565		
Sand			588		
Sand			712		
Shale	1.	1	826		; · · · · ·
Sand		ł	855		
Shale		1	901	1032	
Sand			1032	1048	
Shale	1		1048		
Sand	-	1	1068		
Shale			1093	1126	
Sand	· .	1	1126	1136	
Shale			1136	1159	
Sand	1.		1159	1169	
Shale			1169	1210	
Sandstone		1	1210	1322	•
Shale	·		1322	1436	
Sand			1436	1461	•
Shale	ļ. 	1	1461	1500	
Sandstone			1500	1530	
Shale			1530	1554	
Salt Sand			1554	1620	•
Big Lime			1620	1944	
Keener			1944	2056	
Big Injun			2056	2074	
Shale			2074	2102	
Suare			2102	2147	
Total Death	·				
Total Depth				2147	
					•
•			j		nes u s e n
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	İ		Ì	ļ.	

(Attach separate sheets to complete as necessiry.

Pennzoil Company Well Operator

By Essation a. Lewas

MX Civil Engineering Dept.

NOTE: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic, detailed geologial record of all formations, including coal, encountered in the drilling of a well."

FORM WW-3 (A) 1/12



1) Date:	April 5, 201	9					
2) Operator	r's Well	No.	C. B. C	Chambers 8	3		
3) API We	ll No.:	47	-	087	-	02973	
		State		County		Permi	t
4) UIC Perr	nit No.	HICSE	087098	5			

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,

5) Surface Own	ner(S) To Be Served	7) (a) Coal Op	erator	
(a) Name	William R. Elmore	Name	NA	
Address	4043 Clay Road	Address	-	
	Spencer, WV 25276			
(b) Name	Russell Schoolcraft, Jr.			eclaration Of Record
Address	4045 Clay Road	Name	NA	
	Spencer, WV 25276	Address		
		> T		
(c) Name	Cameron Spaur	Name		
Address	4041 Clay Road	Address		
	Spencer, WV 25276	7) (-) (21)	ith Daal	oution Of Booom
6) Inspector				aration Of Record
Address	1478 Claylick Road	Name Address	NA	
m ! !	Ripley, WV 25271	Address		
Telephone	304-380-7469			
(1) The Appli parties inv (2) The plat (s (3) The Const	ERSONS NAMED ABOVE: You sho ication For A Liquid Injection or Waste D folved in the drilling or other work; surveyor's map) showing the well location of cruction and Reclamation Plan on Form WW rosion and sediment control and for reclamate	isposal Well V n Form WW-6 V-9 (unless the	Vork Permit of ; and well work is o	n Form WW-3(B), which sets out the only to plug a well), which sets out the
The date	proposed for the first injection or waste	disposal is _		20 19 .
THE REASON APPLICATION THE APPLICA	YOU HAVE RECEIVED THESE DOO WHICH ARE SUMMARIZED IN THE ' TION [(FORM WW-3(B)] DESIGNATED	UMENTS IS	ONS" ON THE	HAVE RIGHTS REGARDING THE REVERSE SIDE OF THE COPY OF
THE REASON APPLICATION THE APPLICA ACTION AT A	YOU HAVE RECEIVED THESE DOON WHICH ARE SUMMARIZED IN THE 'ATION [(FORM WW-3(B))] DESIGNATED LL.	CUMENTS IS INSTRUCTION TO YOU. I	ONS" ON THE HOWEVER YO	HAVE RIGHTS REGARDING THE REVERSE SIDE OF THE COPY OF DU ARE NOT REQUIRED TO TAKE
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THE REASON APPLICATION THE APPLICA ACTION AT A Take notice tha Notice and App West Virginia Application and and Reclamation	YOU HAVE RECEIVED THESE DOON WHICH ARE SUMMARIZED IN THE 'ATION [(FORM WW-3(B))] DESIGNATED LL. It under Chapter 22-6 of the West Virginia Collication and accompanying documents for Department of Environmental Protection, if depicted on the attached Form WW-6. Complan have been mailed by registered or complan have been mailed by registered or content.	COMENTS IS FINSTRUCTION TO YOU. If Code, the under a Well Work with respect to the pries of this Nertified mail or y of the mailing	ons" ON THE HOWEVER YOU resigned well of Permit with the o a well at the otice, the Apper delivered by the	HAVE RIGHTS REGARDING THE REVERSE SIDE OF THE COPY OF DU ARE NOT REQUIRED TO TAKE derator proposes to file or has filed this to the Chief of the Office of Oil and Gas, the location described on the attached lication, the plat, and the Construction and to the person(s) named above (or othe Chief.
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THE REASON APPLICATION THE APPLICA ACTION AT A Take notice tha Notice and Application and Application and Reclamation by publication in a pub	I YOU HAVE RECEIVED THESE DOON WHICH ARE SUMMARIZED IN THE 'ATION [(FORM WW-3(B)] DESIGNATED LL. It under Chapter 22-6 of the West Virginia Confication and accompanying documents for Department of Environmental Protection, if depicted on the attached Form WW-6. Confirm Plan have been mailed by registered or confirm certain circumstances) on or before the day. The person signing this docume penalty of law that I have personally examing	COMENTS IS INSTRUCTION TO YOU. If Code, the under a Well Work with respect to the pries of this Nertified mail or y of the mailing and shall make the med and	ons" ON THE HOWEVER YOU resigned well or Permit with the to a well at the otice, the App delivered by g or delivery to	HAVE RIGHTS REGARDING THE REVERSE SIDE OF THE COPY OF DU ARE NOT REQUIRED TO TAKE derator proposes to file or has filed this to e Chief of the Office of Oil and Gas, the location described on the attached lication, the plat, and the Construction and to the person(s) named above (or othe Chief.
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THE REASON APPLICATION THE APPLICA ACTION AT A Take notice that Notice and Application and Reclamation by publication in "I certify under am familiar with attachments and immediately resident and immediately resident."	I YOU HAVE RECEIVED THESE DOON WHICH ARE SUMMARIZED IN THE 'ATION [(FORM WW-3(B)] DESIGNATED LL. It under Chapter 22-6 of the West Virginia Confication and accompanying documents for Department of Environmental Protection, if depicted on the attached Form WW-6. Con Plan have been mailed by registered or conficertain circumstances) on or before the day. The person signing this docume penalty of law that I have personally examine the information submitted in this document.	COMENTS IS (INSTRUCTION TO YOU. If COde, the under a Well Work with respect to pies of this Nertified mail only of the mailing the shall make the and all als lieve that B	ons" On THE HOWEVER YO resigned well of Permit with the to a well at the otice, the App delivered by g or delivery to the following fell Operator ddress	HAVE RIGHTS REGARDING THE REVERSE SIDE OF THE COPY OF DU ARE NOT REQUIRED TO TAKE DU ARE NOT REQUIRED TO TAKE DETAILS OF THE COPY OF DU ARE NOT REQUIRED TO TAKE DETAILS OF THE COPY OF DU ARE NOT REQUIRED TO TAKE DETAILS OF THE COPY OF
THE REASON APPLICATION THE APPLICA ACTION AT A Take notice that Notice and Application and Reclamation by publication in "I certify under am familiar with attachments and immediately rest the information are significant p	I YOU HAVE RECEIVED THESE DOON WHICH ARE SUMMARIZED IN THE 'ATION [(FORM WW-3(B))] DESIGNATED LL. It under Chapter 22-6 of the West Virginia Collication and accompanying documents for Department of Environmental Protection, I depicted on the attached Form WW-6. Con Plan have been mailed by registered or connectain circumstances) on or before the day. The person signing this document penalty of law that I have personally examinated that, based on my inquiry of those individual sponsible for obtaining the information, I belong the state of the s	CUMENTS IS FINSTRUCTION TO YOU. If Code, the under a Well Work with respect spies of this Nertified mail or y of the mailing and all als lieve that Be that there Its	ons" On THE HOWEVER YO resigned well of Permit with the to a well at the otice, the App delivered by g or delivery to the following fell Operator ddress	HAVE RIGHTS REGARDING THE REVERSE SIDE OF THE COPY OF DU ARE NOT REQUIRED TO TAKE PRODUCED

WW-2B1
(5-12)

Well No.	C. B. Chambers 8
VVCII IVO.	O. D. G.

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.

Be advised, you have the right to sample and analyze any water supply at your own expense.

Listed below is the laboratory chosen by operator to perform analysis; and contactor chosen to sample.

ed Laboratory Name
ling Contractor

Sturm Environmental Labs

Sturm Environmental Labs

Operator HG Energy LLC collect sample.

Certified Laboratory Name

Sampling Contractor

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 underling which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site, the Chief may require the operator to test wells up to 2000 feet from the proposed site.

William R. Elmore 4043 Clay Road Spencer WV 25276

SEE TOPO MAP FOR LOCATION WHOLE

WW-9 (2/15)

API Number 47 - 087 _ 02973 Operator's Well No. C. B. Chambers 8

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

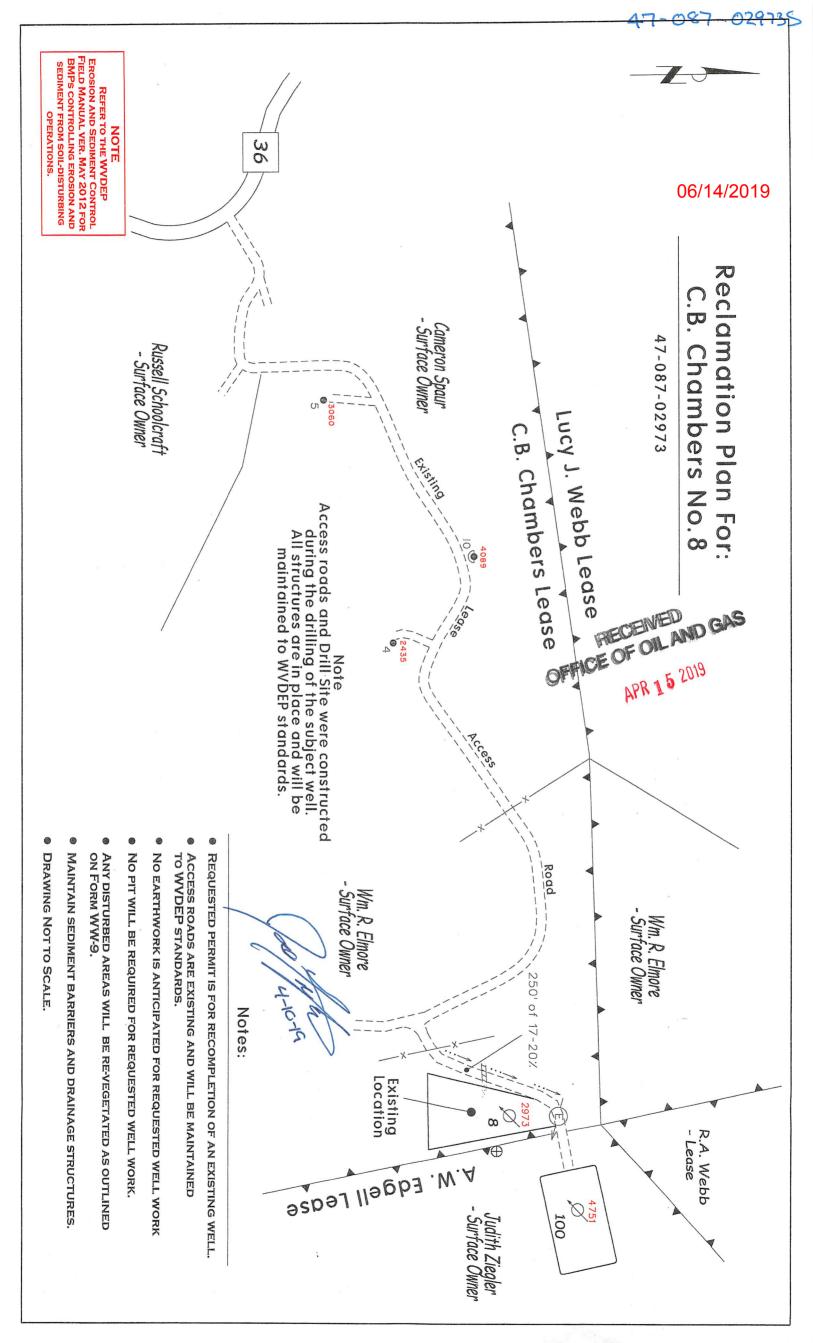
FLUIDS/CUTTINGS DISPOSAL & RECLAMATION PLAN

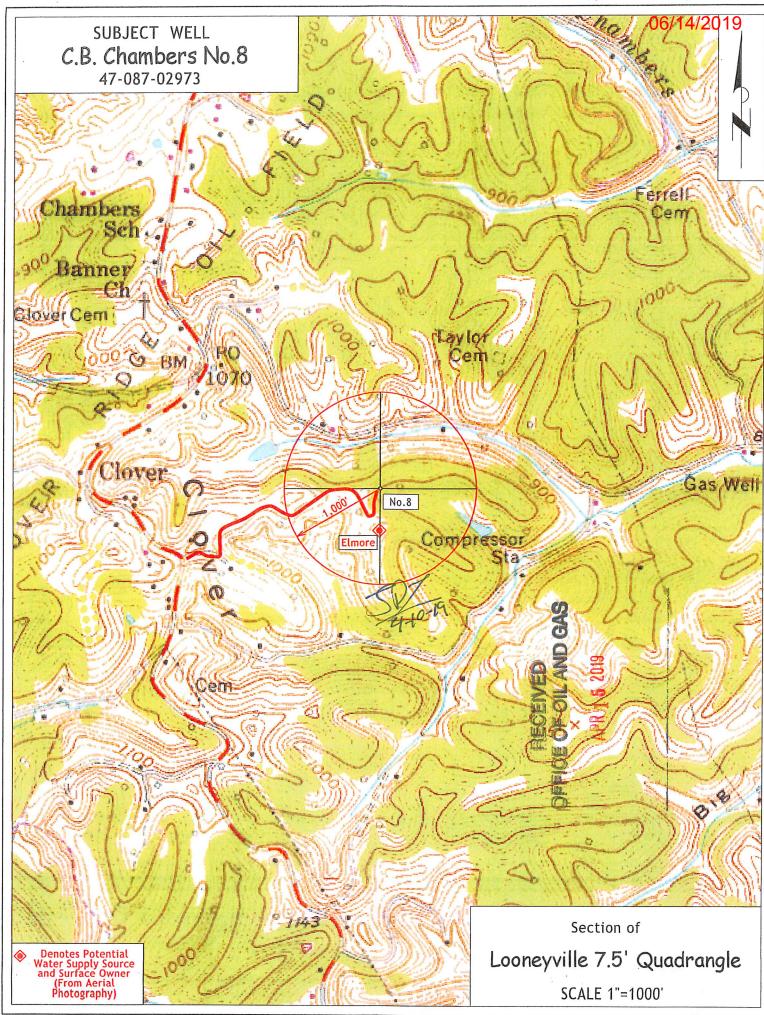
Operator Name HG Energy	, LLC	OP Code _494497	'948	
Watershed (HUC 10) Rush Rur		uadrangle Looneyville 7.5'		
	an 5,000 bbls of water to complete the	proposed well work? Yes _	No ✓	
Will a pit be used? Yes	No _			
If so, please describe an	ticipated pit waste: NA			
Will a synthetic liner be	e used in the pit? Yes No	✓ If so, what ml.?		
Proposed Disposal Meth	hod For Treated Pit Wastes:		IN TANKS.	
	Application		/ N TANKS.	
	ground Injection (UIC Permit Number	er		
	te Oisposal (Supply form WW-9 for o	disposal location)		
Other	(Fynlain We don't anticipate any fluids or cutting	ngs for disposal but if there are any, they wo	ould be stored for offsite disposal	
Will closed loop system be used?	? If so, describe: NA this well (vertical and horizontal)? Air ? Synthetic, petroleum, etc. NA medium? NA Leave in pit, landfill, removed offsite,		EIVED WD GAS	
Drilling medium anticipated for t	this well (vertical and horizontal)? Ai	r freshwater oil based etc.	a OIL A	
If all based what type?	Contaction natural arm at a NA	-ICE	E.51/19	
-II off based, what type?	1: 0 NA	Okkla	APRIL	
Additives to be used in drilling in	ledium?	. NA		
	solidify what medium will be used?			
-Landfill or offsite name	e/permit number? Will be determined upon	on approval of permit and if needed	e de la companya della companya dell	
Permittee shall provide written no West Virginia solid waste facility where it was properly disposed.	otice to the Office of Oil and Gas of ar y. The notice shall be provided within	ny load of drill cuttings or assoc 24 hours of rejection and the pe	ciated waste rejected at any ermittee shall also disclose	
on August 1, 2005, by the Office provisions of the permit are enfolaw or regulation can lead to enform I certify under penalty application form and all attach obtaining the information, I bel	and and agree to the terms and condition of Oil and Gas of the West Virginia Expressible by law. Violations of any terms of law that I have personally examinents thereto and that, based on melieve that the information is true, accommation, including the possibility of formation, including the possibility of fermation.	Department of Environmental P rm or condition of the general ned and am familiar with the y inquiry of those individual curate, and complete. I am a	rotection. I understand that the permit and/or other applicable information submitted on this s immediately responsible for	
Company Official Signature	Diane White			
Company Official (Typed Name	e) Diane White			
Company Official Title Agent				
				ь
Subscribed and sworn before me	this 5th day of April	, 20 19		
Cos	side Backer	Notary Pub	lic OFFICIAL SEAL	
My commission expires 7	31/2022		STATE OF WEST VIRGINIA NOTARY PUBLIC CASSIDY A. BOARDMAN 5301 13th Ave Vienna, WV 26105	
			My Commission Expires July 31, 202	22

Form WW-9

Operator's Well No. C. B. Chambers 8

HG Energy, LLC			
Proposed Revegetation Treatr	ment: Acres Disturbed 0.3	Prevegetation pl	Η
Lime	Tons/acre or to correct to	pH _6.5	
Fertilizer type10/2	20/20	1	
Fertilizer amount	500	_lbs/acre	
Mulch_Straw	2 _{Tot}	ns/acre	
	<u>S</u>	Seed Mixtures	
Ter	nporary	Perma	nent
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	40	Tall Fescue	40
Ladino Clover	5	Ladino Clover	5
Codiment Control	 Will Be Maintained At	All Times	
		-	CAS
provided) Photocopied section of involv	red 7.5' topographic sheet.	application (unless engineered plans in	EUN?
Plan Approved by:	. Taylor		
Comments:			
			-
			3-
	1/2	460	
Title: OO6 Iropa		Date: 4-10-19	
TILLO.	-		





Parkersburg, WV 26101

Parkersburg, WV 26101