

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

Monday, September 14, 2020 WELL WORK PERMIT Vertical / Re-Work

HG ENERGY, LLC 5260 DUPONT ROAD PARKERSBURG, WV 26101

Re: Permit approval for A.B. SMITH 122 47-087-04760-00-00

by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

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

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: A.B. SMITH 122

Farm Name: CHADWELL, RONALD & BR

U.S. WELL NUMBER: 47-087-04760-00-00

Vertical Re-Work Date Issued: 9/14/2020

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. 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.

FORM WW-3 (B) 1/12



1) Date: 08/03/2	020						
2) Operator's Wel	l No.	A. E	A. B. Smith 122				
3) API Well No.:	47	9	Roane	- 2	04760		
	State		County	-	Permit		
4) IIIC Permit No.	DD00	70000	EAD.				

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

		on: 1148'					urel Fork]_/ W	
a decide of the same		t: Smithfi			Co	ounty Roane			igle Looneyville 7.5'
7) WELL OPERA	the contract of the contract of					8) DESIGNA	TED AGE	ENT Diane W	hite
Ad	77.277	260 Dupont					Addre	SS 5260 Du	pont Road
	the second second	arkersburg,						Parkerst	ourg, WV 26101
 OIL & GAS IN Name Joe Ta 		R TO BI	ENOTIFI	ED		10) DRILLIN Name	IG CONTI	RACTOR	
Address 1478 C	Claylick Road					Address			
Ripley,	WV 25271								
11) PROPOSED12) GEOLOGIC				physical	ation [deeper Perfo / Perfo well (specify) Depth	orate new fo	drill ormation	/ Stimulate / Convert) to 2468' Feet (bottom)
13) Estimated De					nth of evis	ting well): 26	60' TMD	Feet (top) to 2468' Feet (bottom)
14) Approximate				esh NA		Feet	Salt		Feet
15) Approximate			NA NA			_ 1001	Dait _	1000	reet
16) Is coal being					No				
17) Virgin reserve				on 1250	_ psi	g Source	Estimated		
18) Estimated res					par	g bource	Louinatou		psig (BHFP)
19) MAXIMUM					IONS- T	Volume per hou	r 25 BBI	Rottom I	nole pressure 2400 psi
20) DETAILED I									
		CHILLOI.	OT TATE						
hactericides and or	ther chemical	s as needed	to maintain				CLODING	TIDDITITI	N 9
bactericides, and of							CLODING	TIDDITI'I	RECEIVED
21) FILTERS (IF	ANY)	Cartridge filte	rs	water qualit	ty and improve	oil recovery.		2000374646	
21) FILTERS (IF 22) SPECIFICAT	ANY) _c TONS FO	Cartridge filte	rs ODIC PF	water qualit	ty and improve	oil recovery.		2000374646	RECEIVED
21) FILTERS (IF 22) SPECIFICAT 23) CASING AND	ANY) _c TONS FO	Cartridge filte R CATH PROGRA	rs ODIC PF M	water qualit	ty and improve	oil recovery.	ROSION (2000374646	RECEIVED Office of Oil and Gas
21) FILTERS (IF 22) SPECIFICAT 23) CASING AND CASING OR	ANY) _c TONS FO	Cartridge filte R CATH PROGRAI SP	rs ODIC PF M ECIFICATI	water qualit ROTECT	Y and improve	OTHER COR	ROSION (CONTROL	RECEIVED Office of Oil and Gas
21) FILTERS (IF 22) SPECIFICAT 23) CASING AND	ANY) _c TONS FO	Cartridge filte R CATH PROGRA	rs ODIC PF M	water qualit	ty and improve	oil recovery.	ROSION (CONTROL	RECEIVED Office of Oil and Gas
21) FILTERS (IF 22) SPECIFICAT 23) CASING AND CASING OR TUBING TYPE	ANY) _c TONS FO	Cartridge filte R CATH PROGRAI SP	ODIC PE	water qualit ROTECT	Y and improve	OTHER COR	ROSION (ITERVALS Left In	CONTROL CEMENT FILL -UP OR SACKS	RECEIVED Office of Oil and Gas
21) FILTERS (IF 22) SPECIFICAT 23) CASING AND CASING OR TUBING TYPE Conductor Fresh Water	ANY) CIONS FO	PROGRAI SP Grade	ODIC PF M ECIFICATI Weight per ft.	water qualit ROTECT	TON AND Used	OTHER CORD	ROSION (ITERVALS Left In Well	CONTROL CEMENT FILL -UP OR SACKS	RECEIVED Office of Oil and Gas AUG 2 0 2020 WV Department of Penvisorial Protection
21) FILTERS (IF 22) SPECIFICAT 23) CASING AND CASING OR TUBING TYPE Conductor Fresh Water Coal	ANY) CIONS FO	PROGRAM SP Grade	ODIC PF M ECIFICATI Weight per ft.	OTECT ONS New	TON AND Used	FOOTAGE IN For Drilling	ROSION (ITERVALS Left In Well 30'	CONTROL CEMENT FILL-UP OR SACKS (CU. FT.)	RECEIVED Office of Oil and Gas AUG 2 0 2020 WV Department of Province Inc. WV Department of
21) FILTERS (IF 22) SPECIFICAT 23) CASING AND CASING OR TUBING TYPE Conductor Fresh Water Coal Intermediate	ANY) CIONS FO	PROGRAM SP Grade	ODIC PF M ECIFICATI Weight per ft.	OTECT ONS New	TON AND Used	FOOTAGE IN For Drilling	ROSION (ITERVALS Left In Well 30'	CONTROL CEMENT FILL-UP OR SACKS (CU. FT.)	RECEIVED Office of Oil and Gas AUG 2 0 2020 WV Department of Penviloninsental Protection Kinds Tension
21) FILTERS (IF 22) SPECIFICAT 23) CASING AND CASING OR TUBING TYPE Conductor Fresh Water Coal Intermediate	ANY) CIONS FO	PROGRAM SP Grade	ODIC PF M ECIFICATI Weight per ft.	OTECT ONS New	TON AND Used	FOOTAGE IN For Drilling	ROSION (ITERVALS Left In Well 30'	CONTROL CEMENT FILL-UP OR SACKS (CU. FT.)	RECEIVED Office of Oil and Gas AUG 2 0 2020 WY Department of Pervisor Received in Section Sizes
21) FILTERS (IF 22) SPECIFICAT 23) CASING AND CASING OR TUBING TYPE Conductor Fresh Water Coal Intermediate Production Tubing	ANY) CIONS FO	PROGRAI SP Grade LS LS	ODIC PF M ECIFICATI Weight per ft. NA 17	ONS New	TON AND Used	FOOTAGE IN For Drilling 30' 550'	ROSION C	CONTROL CEMENT FILL-UP OR SACKS (CU. FT.) CTS	RECEIVED Office of Oil and Gas AUG 2 0 2020 WW Department of Pervision Pervision Kinds Tension Sizes 2 3/8" x 4"
21) FILTERS (IF 22) SPECIFICAT 23) CASING AND CASING OR TUBING TYPE Conductor Fresh Water Coal Intermediate Production Tubing	ANY) CIONS FO	PROGRAI SP Grade LS LS J-55	ODIC PF M ECIFICATI Weight per ft. NA 17	ONS New	TON AND Used	FOOTAGE IN For Drilling 30' 550'	ROSION CONTERVALS Left In Well 30' 550'	CONTROL CEMENT FILL-UP OR SACKS (CU. FT.) CTS	RECEIVED Office of Oil and Gas AUG 2 0 2020 WV Department of Penvisor Report Protect Kinds Tension Sizes 2 3/8" x 4" Depths set
21) FILTERS (IF 22) SPECIFICAT 23) CASING AND CASING OR TUBING TYPE Conductor Fresh Water Coal Intermediate Production Tubing	ANY) CIONS FO	PROGRAI SP Grade LS LS J-55	ODIC PF M ECIFICATI Weight per ft. NA 17	ONS New	TON AND Used	FOOTAGE IN For Drilling 30' 550'	ROSION CONTERVALS Left In Well 30' 550'	CONTROL CEMENT FILL-UP OR SACKS (CU. FT.) CTS	RECEIVED Office of Oil and Gas AUG 2 0 2020 WW Department of PENCHORIS ental Protect Kinds Tension Sizes 2 3/8" x 4" Depths set 2370'
21) FILTERS (IF 22) SPECIFICAT 23) CASING AND CASING OR TUBING TYPE Conductor Fresh Water Coal Intermediate Production Tubing	ANY) CIONS FO	PROGRAI SP Grade LS LS J-55	ODIC PF M ECIFICATI Weight per ft. NA 17	ONS New	TON AND Used	FOOTAGE IN For Drilling 30' 550'	ROSION CONTERVALS Left In Well 30' 550'	CONTROL CEMENT FILL-UP OR SACKS (CU. FT.) CTS	RECEIVED Office of Oil and Gas AUG 2 0 2020 W. Department of Province Research Protect Kinds Tension Sizes 2 3/8" x 4" Depths set 2370' Perforations
21) FILTERS (IF 22) SPECIFICAT 23) CASING AND CASING OR	ANY) CIONS FO	PROGRAI SP Grade LS LS J-55	ODIC PF M ECIFICATI Weight per ft. NA 17	ONS New	TON AND Used	FOOTAGE IN For Drilling 30' 550'	ROSION CONTERVALS Left In Well 30' 550'	CONTROL CEMENT FILL-UP OR SACKS (CU. FT.) CTS	RECEIVED Office of Oil and Gas AUG 2 0 2020 WY Department of Penviron Received Kinds Tension Sizes 2 3/8" x 4" Depths set 2370' Perforations Top Bottom
21) FILTERS (IF 22) SPECIFICAT 23) CASING AND CASING OR TUBING TYPE Conductor Fresh Water Coal Intermediate Production Tubing	ANY) _CTONS FO TUBING I Size 11 5/8" 7" 4 1/2" 2 3/8"	PROGRAM SP Grade LS LS J-55 J-55	ODIC PF M ECIFICATI Weight per ft. NA 17 10.5 4.6	ONS New	TON AND Used	FOOTAGE IN FOO Drilling 30' 550' 2607' 2370'	TERVALS Left In Well 30' 550'	CONTROL CEMENT FILL-UP OR SACKS (CU. FT.) CTS	RECEIVED Office of Oil and Gas AUG 2 0 2020 WV Department of Penviron Received Kinds Tension Sizes 2 3/8" x 4" Depths set 2370' Perforations Top Bottom



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WR-35 Rev. 8/23/13

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

API 47 087 0476	County ROANE	D	istrict SMITHF	IELD
Quad LOONEYVILLE 7.5'			ield/Pool Name	
Farm name CHADWELL, ROI	AND A CARLO DE LA COMPANION DE	1		
Operator (as registered with the	OOG) H.G. ENERGY LLO			
Address 5260 DuPONT ROA	AD City PAF	RKERSBURG	State WV	Zip 26101
As Drilled location NAD 83/U	OTM Attach an as-drille Northing 4,284,289 M	d plat, profile view, and o Eastir	deviation survey 1g 474,949 M	
Landing Point of Curve			.g	*
Bottom Hole	Northing 4,284,321 M	Eastin	g_475,184 M	
Elevation (ft)	GL Type of Well	New DExisting	Type of Repo	rt □Interim ■Final
Permit Type 📕 Deviated	□ Horizontal □ Horizont	tal 6A	Depth Type	□ Deep ■ Shallow
Type of Operation □ Convert	□ Deepen 🚪 Drill 🗆	Plug Back □ Redrilli	ing 🗆 Rework	□ Stimulate
Well Type □ Brine Disposal □	CBM □ Gas □ Oil ■ Sec	ondary Recovery	ution Mining 🗆 S	Storage Other
Type of Completion Single	Multiple Fluids Produc	ced □ Brine □Gas	□ NGL ■ Oil	□ Other
	Same to the second	ced di billic doas	LINGE HOIL	11 Other
Drilled with □ Cable ■ Rota	iry			
Drilling Media Surface hole	■ Air □ Mud ■Fresh Wat	er Intermediate ho	le ∄ Air □ Mı	ud ■ Fresh Water □ Brine
Production hole Air			*** **** ****	
Mud Type(s) and Additive(s) N/A	a British water Britis			
7 30 5 5				
Date permit issued 2/13/1	5 Date drilling comm	nenced7/28/15	Date drillin	g ceased 7/31/15
Date completion activities began	0/44/45	Date completion activi		
Verbal plugging (Y/N) N				
L	zame kammunin Brannon			
Please note: Operator is required	d to submit a plugging applica	ation within 5 days of ver	rbal permission to	plug
Freshwater depth(s) ft	None	Open mine(s) (Y/N) de	oths	None
Salt water depth(s) ft	1860'	Void(s) encountered (Y		None
Coal depth(s) ft	None	Cavern(s) encountered	7 6 5 5	None
Is coal being mined in area (Y/N	N N	and and an area of	Caraly askers	
to coar being inned in area (1/1)				Reviewed by:

04760	Farm na	me_CHADWI	ELL, RON	ALD & BR	ENDA_We	ll numbe	r_ 122	
Hole Size	Casing Size	Depth	New or Used	Grade wt/ft		Basket Depth(s)		cement circulate (Y/ N) rovide details below*
12 1/4"	11 5/8"	30'	Used		LS			Sand In
8 3/4"	7"	550'	New		LS	64'		Υ
	•							
6 1/4"	4 1/2"	2607'	New		J-55			Υ
th set			<u> </u>					
Class/Type of Cement			-	Yield (ft ³/sks)	Volume	;	Cement Top (MD)	WOC (hrs)
					ļ			
Reg Neat	130	15.	6	1.18	154		Surface	8
50:50 Pozmi	110/125	13.2/1	14.2	1.64/1.27	180/18	6	246'	8
on penetrated	Big Injun			· · · —				
ft) ⁶⁵⁰ '								
	■ caliper ■ neutron	•						onic
Yes ■ No	Conventio	nal Side	ewall	W	ere cutting	gs collect	ed ■ Yes	□ No
		NT USED FO	OR EACH	CASING S	TRING _	· · · · · · · · · · · · · · · · · · ·		
								RECEIVED Office of Oil and Gas
OMPLETED A	AS SHOT HOLE	□ Yes ■	No	DETAILS				AUG 2 0 2020
OMPLETED C	OPEN HOLE?	□ Yes ■ N	No DI	TAILS _				WV Department of Environmental Protect
	Hole Size 12 1/4" 8 3/4" 6 1/4" th set Circulated Est. 50 s Class/Type of Cement Reg Neat 50:50 Pozmio 2660' on penetrated edure N/A ft) 650' ne logs run Yes No E CENTRALI m bottom on 4 1/2", Centra	Hole Size Size 12 1/4" 11 5/8" 8 3/4" 7" 6 1/4" 4 1/2" th set Circulated Est. 50 sks to surface on 7" surface	Hole Size Size Depth 12 1/4" 11 5/8" 30' 8 3/4" 7" 550' 6 1/4" 4 1/2" 2607' th set Circulated Est. 50 sks to surface on 7" surface cement job. Cir Class/Type Number of Sacks wt (p Reg Neat 130 15. 50:50 Pozmix 110/125 13.2/* 2660' on penetrated Big Injun edure N/A ft) 650' ne logs run a caliper density neutron resistivity Yes No Conventional Side E CENTRALIZER PLACEMENT USED FOR bottom on 4 1/2", Centralizer placed mid string on 7"	Hole	Hole	Hole	Hole Casing Depth New or Grade Basket Depth(s)	Hole

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API 47- 087 _ 04760 Farm name_CHADWELL, RONALD & BRENDA Well number_122

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	8/11/15	2462'	2468'	24	Big Injun
·	0, 11, 10				
				L	

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 Nitrogen/other (units)
1	8/13/15	5	250	N/A	0	2,500	164	
			, , , , , , , , , , , , , , , , , , ,					
					~~~			
					<u>.                                    </u>			
				-				
				-				
								Office of Oil and Gas
								Office of Oil and Gas
								AUG 2 0 2020
								AUU Z V ZUZU
								WV Department of Environmental Protection
								Environmental Protection

Please insert additional pages as applicable.

WR-35 Rev. 8/23/13										Page 4 of 4
API 47- 087	_ 04760	Farm	_{name} CHADW	ELL, RON	ALD & BREN	IDA Well	numbe	_{r_} 122		
PRODUCING	FORMATION	(S)	<u>DEPTHS</u>							
Big Injun				TVD	2448'- 2474'	MD				
Dig injuit			2170-2100	IVD	2440 - 2474	MD	•			
		·		<del></del>						
Please insert ad	lditional pages	as applicable.								
GAS TEST	□ Build up	□ Drawdown	□ Open Flow		OIL TEST	Flow	□ Pump	)		
SHUT-IN PRE	SSURE Sur	face	_psi Botto	m Hole	psi	DURA	TION (	OF TES	Т	hrs
OPEN FLOW	Gas mc	Oil fpd	NGL bpd	_ bpd				JRED E Ori		□ Pilot
LITHOLOGY/	TOP	воттом	TOP	воттом						
FORMATION	DEPTH IN FT	DEPTH IN FT	DEPTH IN FT		T DESCRIBE	ROCK TY	PE AND	RECOR	D OUAN	TITYAND
	NAME TVD	TVD	MD	MD					-	GAS, H ₂ S, ETC)
Sand/Shale	0	1566	0	1614	T	(			, , , , ,	
Sand	1566	1598	1614	1652						
Shale	1598	1644	1652	1705					-	
Sand	1644	1654	1705	1719						
Shale	1654	1688	1719	1759						
Sand	1688	1998	1759	2184						
Little Lime	1998	2012	2184	2206						
Pencil Cave	2012	2020	2206	2218						
Big Lime	2020	2140	2218	2400		<del></del>				
Keener	2140	2170	2400	2448						
Big Injun	2170	2188	2448	2474		Orilled direc	tional N	78.3° E a	a distanc	e of 849'
Shale	2188	2320	2474	2660						
TD	2320		2660							
Please insert ad	ditional pages	as applicable.								
Drilling Contra	ctor Decker Dri	illing								
Address 11565	State Route 676		City	Vincent		State	ОН	Zip	45784	
	\Meatharfa	rd International								DECENTED.
Logging Comp Address 777 No	any vveatherfor	u miemational		Weston		Ct-t-	wv	7:	26452	RECEIVED Office of Oil and
Address 777 No	itti Kivei Aveilue		City			State		Z.ip	20102	ALIC 0 0 200
Cementing Cor	npany Universa	al Services								AUG 2 0 202
Address Hall Ro			City	Buckhanno	ı	State	WV	Zip	26201	WV Department
		core Sarvice Co								Environmental Prot
Stimulating Co		cers Service Co		Zanesville		Ctata	ОН	7in	43701	
Address <u>109 So</u> Please insert ad			City			state		z.ip		
r icase ilisert ao	iditional pages	as applicable.	-							
Completed by	Roger Heldma	n ₂			Telephon	e 304-42	0-1107			
Signature	In 1	leldr	Title O	perations Ma	nager		Date _8	3/17/15		
	7						_			

Jo

FORM WW-3 (A) 1/12



1) Date: Aug	gust 3, 2020				
2) Operator's	Well No.	A. B. S	mith 122		
3) API Well N	lo.: 47	-	087	3	04760
	State		County		Permit
4) UIC Permit	No apos	70440	2000	290	MANERE

### 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 Ow	oner(S) To Be Served 7) (a)	Coal Operator	
(a) Name	Ronald & Brenda Chadwell Na	me NA	
Address		dress	
wy de	Spencer, WV 25276	CARL ATTENDED	
(b) Name		Coal Owner(S) With D	Declaration Of Record
Address	Na Na		
	Ad	dress	
(c) Name	Na	me	
Address		dress	
riduless	- Au	u1033	
6) Inspector	Joe Taylor 7) (c)	Coal Lessee with Decla	aration Of Record
Address	1478 Claylick Road Na	me NA	and the second s
	Ripley, WV 25271 Ad	dress	
Telephone	304-380-7469		
The date	rosion and sediment control and for reclamation for proposed for the first injection or waste disposed. YOU HAVE RECEIVED THESE DOCUMEN WHICH ARE SUMMARIZED IN THE "INSTATION [(FORM WW-3(B)] DESIGNATED TO	sal is NTS IS THAT YOU RUCTIONS" ON THE	20 20WV Departmental Pro- HAVE RIGHTS REGARDING THE E REVERSE SIDE OF THE COPY OF
Notice and Ap West Virginia Application an and Reclamati	at under Chapter 22-6 of the West Virginia Code, polication and accompanying documents for a West Department of Environmental Protection, with addepicted on the attached Form WW-6. Copies on Plan have been mailed by registered or certifice in certain circumstances) on or before the day of the	Il Work Permit with the respect to a well at the of this Notice, the App d mail or delivered by	ne Chief of the Office of Oil and Gas, ne location described on the attached lication, the plat, and the Construction hand to the person(s) named above (or
	The person signing this document sha	all make the following	g certification:
"I certify unde	r penalty of law that I have personally examined an	Well Operator	HG Energy, LLC
that the second second second second second second	th the information submitted in this document and	A 7.1	5260 Dupont Road
	d that, based on my inquiry of those individuals		Parkersburg, WV 26101
	esponsible for obtaining the information, I believe t		Diane White
	n is true, accurate and complete. I am aware that the		Agent
	penalties for submitting false information, includir	ng	
the possibility	of fine and imprisonment.	Signature:	Diane White

D-0	Domestic Mail Only
M	
1287	
LTI	\$ WING TOW
0000	Return Receipt (hardcopy) \$  Return Receipt (electronic) \$  Certified Meil Restricted Delivery \$  Adult Signature Required \$  Adult Signature Restricted Delivery \$
	Postage
ED IU	S Total Pasts
П	Total Postage and Fees
0	Sent To Report   ABS 12Z
ZOZ	Street and Apt. No., or PO Box No.
7	4580 Clay Road
L	Spencer WV 25276
	PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

RECEIVED Office of Oil and Gas

AUG 2 0 2020

WV Department of Environmental Protection



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

August 3, 2020

Ronald and Brenda Chadwell 4580 Clay Road Spencer, WV 25276

RE:

A. B. Smith No. 122 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

RECEIVED Office of Oil and Gas

AUG 2 0 2020

WV Department of Environmental Protection

Diane C. White

Enclosures

Date

		SURFACE OWN	IER WAIVER								
County	Roane	Operat Operat	or or well numbe	HG Energy, LLC AB Smith 122							
	INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW2-A / 3A										
(Note: If the su name appeared you may be the work permits ar the true owner	rface tract is owned by moder on the Sheriff's tax ticked only owner who will actuate valid for 24 months. If you immediately if you know whote: YOU  WHERE TO FILE C	ore than three person ton the land or beca ally receive these ma ou do not own any into no it is. Also, please ARE NOT REQUIRE	ns, then these manuse you actually aterials.) See Charrest in the surfamotify the well op ED TO FILE ANY	it from the State to do oil or gas well work. laterials were served on you because your ly occupy the surface tract. In either case, hapter 22 of the West Virginia Code. Well lace tract, please forward these materials to be rator and the Office of Oil and Gas.  I COMMENT.  IAL INFORMATION:							
Chief, Office of Department of I 601 57 th St. SE Charleston, W	Environmental Protection										
operator files his be filed in person be sure of the handling. If you the planned wo Common well operator's from the application The Ch (1) The (2) The (3) Dan (4) The (5) If you request a copy List of to test your water (b) to test your water (b) to the sure of the sur	Is Application. You have Fon or received in the mail to date. Check with your put have been contacted by the described in these materies must be in writing. In ame and well number and it is fast the power to deny composed well work will composed well work will composed well work will composed well work fails to applicant has committed re of the rules promulgated want a copy of the permy from the Chief.  Water Testing Laborator er to establish water quality VOLU	oy the Chief's office by the Chief's office by the Chief's office by the Well operator and rials, then the permit Your comments must the approximate local occuments, such as sor condition a well wo postitute a hazard to be control plan is not actly owned lands or reso protect fresh water a substantial violatical under Chapter 22, and as it is issued of the Chief of t	after the filing data by the time stated by the time stated by the time stated by you have signed and be issued at the state of the property of the safety of persources; sources or supplement of a previous and has failed to a racopy of the state at list of walling. Contact the TOF NO OBJECT	name, address and telephone number, the cosed well site including district and county or photographs to support your comments. on comments on the following grounds: sons. cive;  lies; permit or a substantial violation of one or abate or seek review of the violation".  e order denying the permit, you should atter testing laboratories which you can hire e Chief to obtain a copy.  CTION							
Application for a work order on F as described th	a Well Work Permit on For Form WW-2B / 3A, a survey erein.	m WW2-A / 3A, and / plat, and a soil and	attachments con erosion plan, all	hat I have received copies of a Notice and nsisting of pages 1 through including a for proposed well work on my surface land these materials, and I have no objection to							
	ON BY A NATURAL PERS	ON	FOR EX	RECEIVED RECUTION BY A CORPORMAL BY COMPOSE GAS							
		Date	Company Name	AUG 2 0 2020							
04760	gnature		By Its	Environmental Protection Date							
	nt Name										

Signature

WW-2B1	
(5-12)	

Well No.	AB Smith 122	
_		

### 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 collect sample.

atory Name	Sturm Analytical Lab	
ractor	Sturm Analytical Lab	
		RECEIVED Office of Oil and Gas
HG Energy, LLC	;	<u> </u>
5260 Dupont Ro	ad	AUG <b>2 0</b> 2020
Parkersburg, W	V 26101	WV Department of
304-420-1119		Environmental Protection
	5260 Dupont Ro Parkersburg, W	HG Energy, LLC 5260 Dupont Road Parkersburg, WV 26101

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.

* Not Applicable

WW-9 (2/15)

API Number	47 -	87	
7 44 7 7 101111001	0.01		-

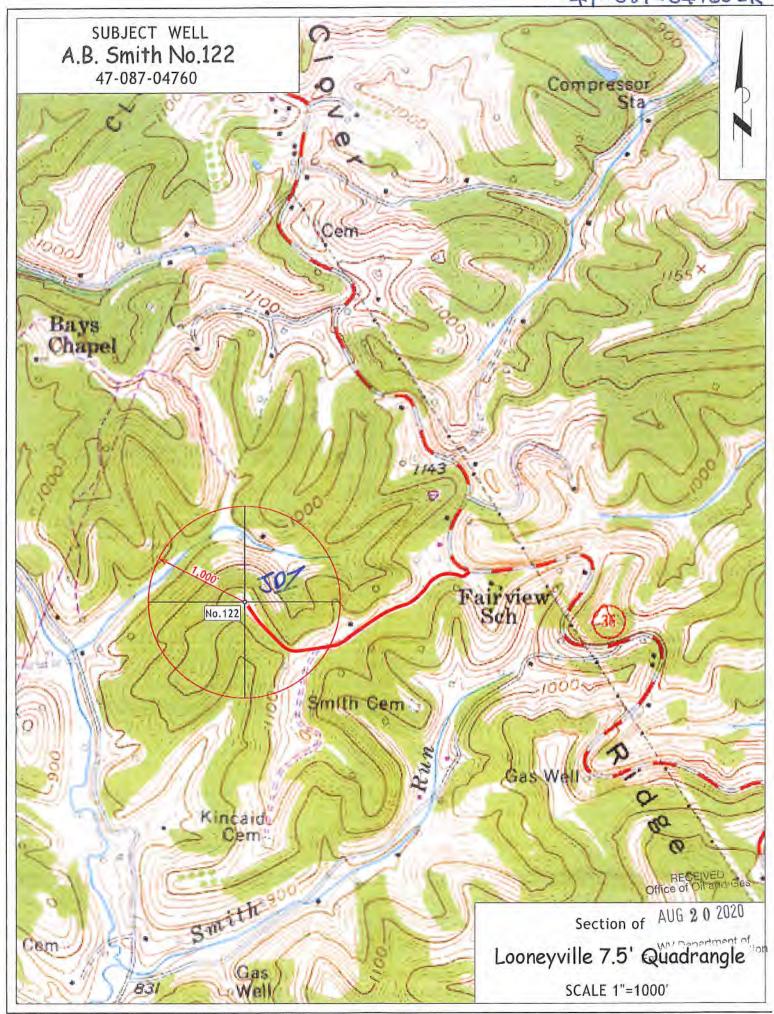
_ 04760

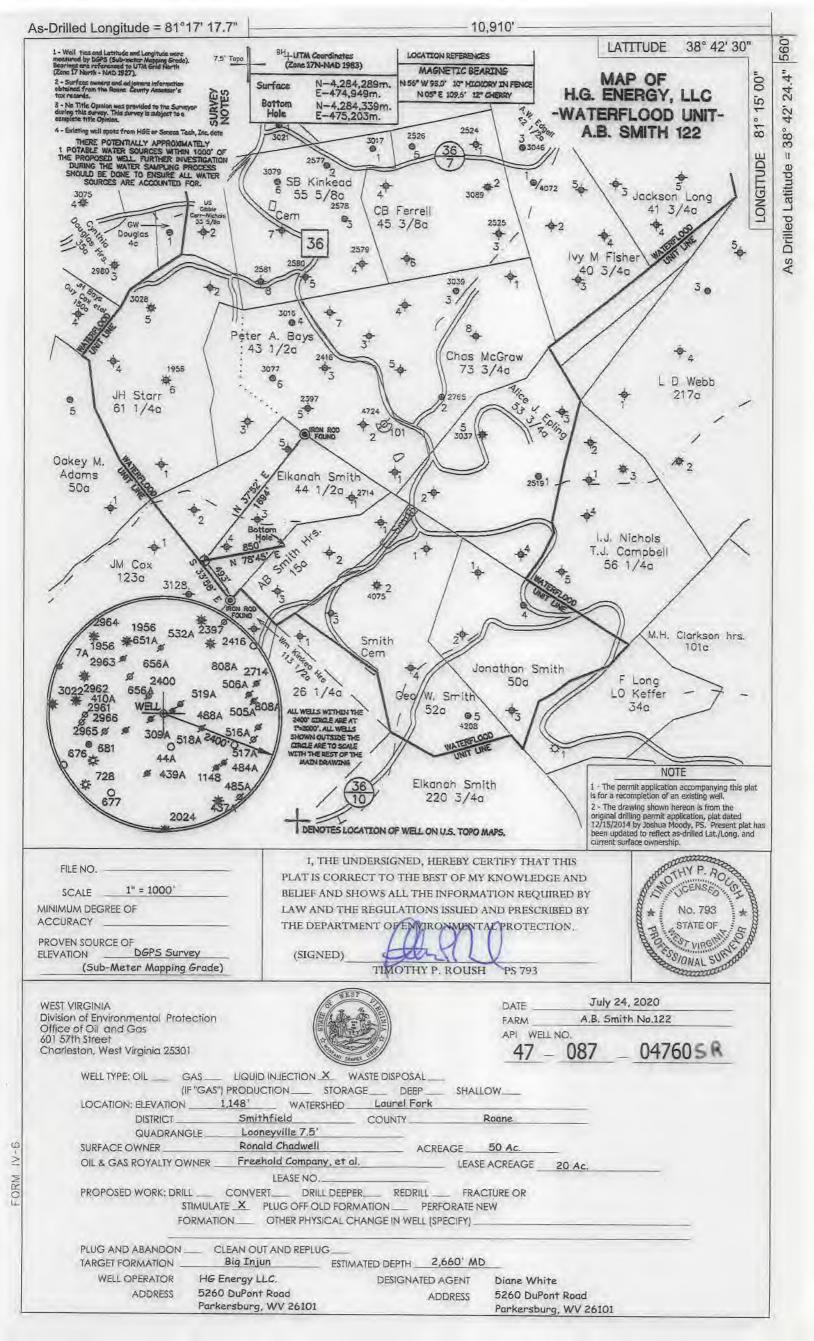
Operator's Well No. AB Smith 122

### 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 4944	97948
Watershed (HUC 10) Laurel Fork	Quadrangle Looneyville 7.5'	
Do you anticipate using more than 5,000 bbls of water to Will a pit be used? Yes No No No NA	ANY WELL EFFLUENT WILL UNTIL DISPOSED OFF EIT	BE COUTAINED IN TANK
Will a synthetic liner be used in the pit? Yes	No ✓ If so, what ml.?	
Proposed Disposal Method For Treated Pit Wast	es:	
Land Application Underground Injection (UIC) Reuse (at API Number Off Site Disposal (Supply form Other (Explain No waste antici		
Will closed loop system be used? If so, describe: No		
Drilling medium anticipated for this well (vertical and hor	rizontal)? Air, freshwater, oil based, etc.	NA
-If oil based, what type? Synthetic, petroleum, e	te, NA	
Additives to be used in drilling medium? NA		
Drill cuttings disposal method? Leave in pit, landfill, rem	oved offsite, etc. NA	
-If left in pit and plan to solidify what medium w	rill be used? (cement, lime, sawdust) NA	
-Landfill or offsite name/permit number? NA		
Permittee shall provide written notice to the Office of Oil West Virginia solid waste facility. The notice shall be prowhere it was properly disposed.	and Gas of any load of drill cuttings or ass vided within 24 hours of rejection and the	sociated waste rejected at any permittee shall also disclose
I certify that I understand and agree to the terms on August 1, 2005, by the Office of Oil and Gas of the W provisions of the permit are enforceable by law. Violati law or regulation can lead to enforcement action.  I certify under penalty of law that I have persapplication form and all attachments thereto and that, obtaining the information, I believe that the information penalties for submitting false information, including the p	est Virginia Department of Environmental ons of any term or condition of the gener onally examined and am familiar with the based on my inquiry of those individual is true, accurate, and complete. I am ossibility of fine or imprisonment.	Protection. I understand that the ral permit and/or other applicable he information submitted on this rals immediately responsible for aware that there are significant  RECEIVED Office of Oil and Gas
Company Official (Typed Name) Diane White		AUG 2 0 2020
Company Official Title Agent		WV Department of Environmental Protection
Subscribed and sworn before me this 3rd day	of August , 20 20	0
My commission expires 7 31 2022	Notary Pr	OFFICIAL SEAL STATE OF WEST VIRGINIA NOTARY PUBLIC CASSIDY A. BOARDMAN 5301 13th Ave Vienna, WV 26105 My Commission Expires July 31, 2022

Proposed Revegetation Treatm	nent: Acres Disturbed 0.1	Prevegetation pl	I
	Tons/acre or to correct to pH		
Fertilizer type10			
Fertilizer amount	2.1	/acre	
Mulch Straw	2 Tons/ac		
Mulch_Oddw	Tons/ac	ire	
	Seed	Mixtures	
Tem	nporary	Perma	nent
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, p provided)	ed 7.5' topographic sheet.	all times ** ication (unless engineered plans inc	cluding this info
Attach:	oit and proposed area for land appled 7.5' topographic sheet.		cluding this info
Attach: Drawing(s) of road, location, porovided) Photocopied section of involve	oit and proposed area for land appled 7.5' topographic sheet.		cluding this info
Attach:  Drawing(s) of road, location, porovided)  Photocopied section of involved  Plan Approved by:	oit and proposed area for land appled 7.5' topographic sheet.		cluding this info
Attach:  Drawing(s) of road, location, porovided)  Photocopied section of involved  Plan Approved by:	oit and proposed area for land appled 7.5' topographic sheet.		cluding this info
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HG Energy, LLC 5260 Dupont Road Parkersburg, WV 26101 (304) 420-1100 - Office (304) 863-3172 - Fax

August 3, 2020

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

RE: A. B. Smith No. 122 (API 47-087-04760)

Smithfield District, Roane County

West Virginia

Dear Mr. McLaughlin:

Enclosed are Forms WW-3A, WW-3B, WW-9, mylar of plat, reclamation plan, topo map and copies of the certified mailing receipts for a permit to stimulate an injection well. Also enclosed is our check in the amount of \$550.00 to cover the associated permit fees.

Very truly yours,

Diane White

Diane C. White

Office of Oil and Gas

CK#47060

AUG 2 0 2020

WV Department of Environmental Protection

Enclosures

cc: Ronald & Brenda Chadwell - Certified

Joe Taylor - Inspector