

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

Thursday, August 1, 2019 WELL WORK PERMIT Vertical / New Drill

HG ENERGY, LLC 5260 DUPONT ROAD

PARKERSBURG, WV 26101

Re:

Permit approval for CARR NICHOLAS NO. 131

47-087-04793-00-00

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: CARR NICHOLAS NO. 131

Farm Name:

WILLIAM B. NICHOLS

U.S. WELL NUMBER: 47-087-04793-00-00

Vertical New Drill

Date Issued: 8/1/2019

Promoting a healthy environment.

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.

FORM WW-3 (B) 1/12



1) Date: 05/23/20	19						
2) Operator's Well	No.	Car	r-Nichols 131				
3) API Well No.:	47	-	Roane	-	s		
	State	•	County			Permit	
4) LHC Permit No.	LIICSE	ากลุรก	1985				

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	d Injection	on 🗸	/	Gas Injec	ction (not storaș	ge)	/ W	aste Disposal
6) LOCATION:	Elevation	on: 1087'			Wa	itershed: Ru	sh Run		
,	District	: Smithvi	lle		Cor	unty Roane		Quadran	gle Looneyville 7.5'
7) WELL OPERA	TOR: H	G Energy, L	LC			8) DESIGNA	TED AGE	NT Diane W	hite
Add	dress 52	260 Dupont	Road				Addres	S 5260 Du	pont Road
	Pa	arkersburg,	WV 26101					Parkersb	urg, WV 26101
9) OIL & GAS IN	SPECTO	R TO BE	ENOTIFI	ED		10) DRILLIN	IG CONTR	ACTOR	
Name Joe Tay						Name To	Be Determine	d Upon Approva	I of Permit
Address 1478 C	laylick Road					Address			
Ripley,	WV 25271								
11) PROPOSED V	WELL W		Drill _ Plug off other p				/ Red	-	/ Stimulate ✓ Convert
12) GEOLOGIC 7	ΓARGET	FORMA	TION Big	g Injun		Depth	2310	Feet (top) to 2340 Feet (bottom)
13) Estimated Dep	pth of Cor	npleted V	Well, (or a	ectual de	pth of exist	ting well): 249	0' TMD	Feet	
14) Approximate	water stra	ta depths	: Fre	esh 464		Feet	Salt _	1710	Feet
15) Approximate			NA						
16) Is coal being t			Yes		_ No				
17) Virgin reservo					psig	g Source	Estimated		
18) Estimated rese									psig (BHFP)
19) MAXIMUM I									nole pressure 2400 psi
20) DETAILED I	DENTIFI	CATION	OF MA	ΓERIAL	S TO BE I	NJECTED, IN	CLUDING	ADDITIVE	S Fresh water, produced water,
bactericides and oth						oil recovery.			
21) FILTERS (IF									
22) SPECIFICAT	IONS FO	R CATH	ODIC PR	COTECT	TION AND	OTHER COR	ROSION C	ONTROL	
23) CASING AND	TUBING F	PROGRAI	<u>M</u>			1		T	
CASING OR			ECIFICATI		1	FOOTAGE IN		CEMENT	PACKERS
TUBING TYPE	Size	Grade	Weight	New	Used	For Drilling	Left In	FILL -UP	
			per ft.				Well	OR SACKS (CU. FT.)	
C1t	-							(CO.11.)	W: 1-
Conductor	-							070	Kinds
Fresh Water	7	LS	17#	Х		525'	525'	CTS	Gi
Coal									Sizes
Intermediate	4.4/0"	1.55	10.5"			0.4001	0.4001	450 L OTO	2.375" x 4.5" RECEIVED
Production	4 1/2"	J-55	10.5#	X		2490'	2490'	150 sk, CTS	Depths soffice of Oil and Gas
Tubing	2 3/8"	J-55	4#	×		2240'	2240'		2150'
Liners	-								Perforations UN 1 4 2019
									Top Bottom
									WV Department of Environmental Protection
24) ADDI ICANITE	C OPER A	TIME	ICITE		uina d. C	Mish at 2			
24) APPLICANT						Nicholas Carr, e	t ux		of moond in the
by deed	/ le	ease x		other co		/ dated		Dools 4	of record in the
Roane			ounty Cle	erk's off	ice in	ease	- 7 5	Book 4	Page 201

Ja / 6-6-19

FORM WW-3 (A)



1) Date: May 23, 20	19					
2) Operator's Well	No.	Carr-Ni	chols 131		*	
3) API Well No.:	47	-		-		
	State		County	_	Permit	
1) IIIC Darmit No	LUCOD	007000	-			

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 Ov	vner(S) To Be Served	7) (a) Coa	l Operator	
(a) Name	William B. Nichols	Name	NA	
Address	2557 Clay Road	Address	S	
	Spencer, WV 25276	_		
(b) Name	Cameron Spaur	7) (b) Coa	l Owner(S) With I	Declaration Of Record
Address	4041 Clay Road	Name	NA	
	Spencer, WV 25276	Address	S	
	/	2.7		
(c) Name	Michael Anderson	Name		
Address	598 Poca Road	Address	3	
	Looneyville, WV 25259	7) (0) (0	l Lessee with Decl	anation Of Booord
6) Inspector	Joe Taylor	- ' ' '		aration Of Record
Address	1478 Claylick Road	Name	NA NA	
T-11	Ripley, WV 25271	- Address		
Telephone	304-380-7469	-		
TO THE	PERSONS NAMED ABOVE: You sh	ould have	received this fo	rm and the following documents
	lication For A Liquid Injection or Waste			
parties in	volved in the drilling or other work;			
	(surveyor's map) showing the well location			
	struction and Reclamation Plan on Form W			
plan for e	erosion and sediment control and for reclam	ation for the	site and access ro	ad.
The date	e proposed for the first injection or waste	e disposal i	S	20 19 .
THE REASO	N YOU HAVE RECEIVED THESE DO	CUMENTS	S IS THAT YOU	HAVE RIGHTS REGARDING THE
	N WHICH ARE SUMMARIZED IN THE			
	ATION [(FORM WW-3(B)] DESIGNATE			
ACTION AT	ALL.			
Take notice th	at under Chapter 22-6 of the West Virginia	Code the u	ndersigned well or	perator proposes to file or has filed this
	oplication and accompanying documents for			
	Department of Environmental Protection			
Application ar	nd depicted on the attached Form WW-6.	Copies of th	is Notice, the App	lication, the plat, and the Construction
and Reclamati	on Plan have been mailed by registered or	certified ma	il or delivered by	hand to the person(s) named above (or
by publication	in certain circumstances) on or before the d	lay of the ma	ailing or delivery to	o the Chief. Office of Oil and Gas
	The person signing this docum	ent shall m	nake the following	g certification: JUN 1 4 2019
			Well Operator	HG Energy, LLC W// Department of
	r penalty of law that I have personally exam		Address	WV Department of Environmental Protection
	th the information submitted in this docume		Addiess	ozo zapolitituda
	nd that, based on my inquiry of those individual caponsible for obtaining the information, I be		Dy	Parkersburg, WV 26101
	n is true, accurate and complete. I am aware		By:	Diane White
	penalties for submitting false information, i		Its:	Agent
	of fine and imprisonment.		G:	siane White
1,	*		Signature:	THE COLUMN

A serial action



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

May 23, 2019

Cameron Spaur 4041 Clay Road Spencer, WV 25276

RE:

Carr Nichols No. 131

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

RECEIVED Office of Oil and Gas

JUN 1 4 2019

Enclosures WV Department of Environmental Protection



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

May 23, 2019

Michael Anderson 598 Poca Road Looneyville, WV 25259

RE:

Carr Nichols No. 131

Smithfield District, Roane County

West Virginia

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Diane C. White

RECEIVED Office of Oil and Gas

JUN 1 4 2019

WV Department of Environmental Protection

Enclosures



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

May 23, 2019

William B. Nichols 2557 Clay Road Spencer, WV 25276

RE:

Carr Nichols No. 131

Smithfield District, Roane County

West Virginia

Dear Landowner:

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Very truly yours, Diane White

Diane C. White

RECEIVED Office of Oil and Gas

JUN 1 4 2019

WV Department of Environmental Protection

Enclosures

WW-9 $(2/15)^{\circ}$

API Number	47		1
Ope	rator's Well	No. Carr Nic	chols No. 131

STATE OF WEST VIRGINIA

Man decents.	DEPARTMENT C	TE OF WEST VIRGINIA OF ENVIRONMENTAL PROTEC FICE OF OIL AND GAS	CTION	Lafter way a constant
	FLUIDS/ CUTTING	GS DISPOSAL & RECLAMATION	N PLAN	
Operator Name H	G Energy, LLC	OP Co	ode <u>494497948</u>	
Watershed (HUC 10	Rush Run	Quadrangle Looneyvi	ille 7.5'	
, , , , , , , , , , , , , , , , , , , ,		to complete the proposed well work	√ Yes	
Will a pit be used?				
If so, please	e describe anticipated pit waste:	Fluids encountered in drilling the inj		
	hetic liner be used in the pit? Yes		ml.?_20 mil	-
Proposed D	Disposal Method For Treated Pit W	astes:		
	Land Application Underground Injection (UI	C Permit Number)
	Reuse (at API Number			
	Off Site Disposal (Supply for Other (Explain Fluids will be	orm WW-9 for disposal location) e moved to an approved off site disposa	al facility	
Will closed loop sys	tem be used? If so, describe: No			
Drilling medium ant	icipated for this well (vertical and	horizontal)? Air, freshwater, oil bas	sed, etc. Air, Freshwater	
-If oil based	l, what type? Synthetic, petroleum	ı, etc. NA		
Additives to be used	in drilling medium? Water, Soap,	KCI		
Drill cuttings dispos	al method? Leave in pit, landfill, r	emoved offsite, etc. Leave in pit		
_	-	n will be used? (cement, lime, sawd	lust) Native soil, cement, lime	
-Landfill or	offsite name/permit number?	be determined upon approval of permit		
	waste facility. The notice shall be p	Oil and Gas of any load of drill cuttin provided within 24 hours of rejection		
on August 1, 2005, be provisions of the per law or regulation can I certify ur application form an obtaining the inform	by the Office of Oil and Gas of the rmit are enforceable by law. Viol in lead to enforcement action. In the penalty of law that I have penalty attachments thereto and the mation, I believe that the informating false information, including the	ms and conditions of the GENERAL West Virginia Department of Environment of any term or condition of the ersonally examined and am familia at, based on my inquiry of those tion is true, accurate, and complete possibility of fine or imprisonment	onmental Protection. I und the general permit and/or of ar with the information su individuals immediately te. I am aware that there	derstand that the other applicable abmitted on this responsible for
Company Official Si		ute	O AT	RECEIVED Office of Oil and Gas
Company Official (Typed Name) Diane White		1 /1/V	
Company Official T	itle Agent		6-6-19	JUN 1 4 2019
	$\overline{}$			WV Department of Environmental Protection
Subscribed and swor	Hene		Not a Public STATE C TIMO 5260	FICIAL SEAL TARY PUBLIC DF WEST VIRGINIA THY P ROUSH 0 Dupont Road g West Virginia 26101 on Expires Apr 26, 2020

Operator's Well No. Carr Nichols No. 131

HG Energy, LLC	* B,	<u>- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1</u>	al and all and
Proposed Revegetation Treat			tation pH
Lime	3 Tons/acre or to con	rect to pH 6.5	
Fertilizer type10-	-20-20	<u> </u>	
Fertilizer amount		500 lbs/acre	
Mulch_Straw		2 Tons/acre	
		Seed Mixtures	
Te	mporary		Permanent
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	40	Tall Fescue	40
Ladino Clover	5	Ladino Clover	5
Drawing(s) of road, location, provided) Photocopied section of involv		or land application (unless engineered et.	plans including this info have been
Plan Approved by:	eth		
Comments:			
Seclemint	Control to	be in place and	mointained of all
			RECEIVED Office of Oil and Gas
			JUN 1 4 2019
Title: OGG IIS	/_	Date: 6-6-19	
		Date: 6-6-74	WV Department of Environmental Protection
Field Reviewed?	Y Yes	() No	
Field Reviewed? (_		Date.	WV Department of Environmental Protection

WV	V-	.2	В	1
(5-	1	2))	

Well No.	Carr Nichols No	o. 131

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.

Sampling Contractor		Sturm Environmental Labs	
		Sturm Environmental Labs	
Well Operator	HG Energy, LL0		RECEIVED Office of Oil and Gas
Address 5260 Dupon		pad	JUN 1 4 2019
	Parkersburg, W	V 26101	
Telephone	304-420-1119		WV Department of Environmental Pretection

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.

- See Attached Page for List of Persons to be Tested -

Well No.

Carr Nichols 131

Page 2 - Continued

West Virginia Department of Environmental Protection
Office of Oil and Gas

NOTICE TO SURFACE OWNERS

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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 underlining which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site please indicate such.

Surface Owners Identified With Water Sources to be Sampled and Tested:

William B. Nichols 2557 Clay Road Spancer, WW 25276

Spencer, WV 25276

Michael Anderson 598 Poca Road

Looneyville, WV 25259

Brian Koon 6 Bosley Drive Stanley, VA 22851

Maurice Johnson Est. Clay Route, Box 73 Spencer, WV 25276

Robert Clarkson 1061 Parkersburg Road Spencer, WV 25276

<u>Donald Carpenter</u> 3882 Clay Road Spencer, WV 25276

Stephen Cale PO Box 191 Spencer, WV 25276 Cameron Spaur 4041 Clay Road Spencer, WV 25276

Bradley D. Smith 4026 Clay Road Spencer, WV 25276

Cameron Spaur 4041 Clay Road Spencer, WV 25276

Timothy Benear 3994 Clay Road Spencer, WV 25276

Clover VFD 200 Main Street Spencer, WV 25276

Stephen Cale 3825 Clay Road Spencer, WV 25276

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RECEIVED
Office of Oil and Gas

JUN 1 4 2019

WV Department of Environmental Protection



