

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 5, 2020 WELL WORK PLUGGING PERMIT Horizontal 6A Plugging

TUG HILL OPERATING, LLC 380 SOUTHPOINTE BLVD

CANONSBURG, PA 15317

Re: Permit approval for OLD CROW N-19HU 47-051-02190-00-00

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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, 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: OLD CROW N-19HU

Farm Name: DONNA VIVIAN YOHO (TOP)

U.S. WELL NUMBER: 47-051-02190-00-00

Horizontal 6A Plugging Date Issued: 6/5/2020

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. 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.

WW-4B Rev. 2/01

1) Date January 17	2020
2)Operator's	
Well No. Old Crow N-19HU	
3) API Well No. 47-051	- 02190

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

APPLICATION FOR A PER	MIT TO PLUG AND ABANDON
	d injection/ Waste disposal/ derground storage) Deep X/ Shallow
5) Location: Elevation 1,264.99' District Franklin	Watershed Tributary Of Fish Creek (HUC-10) County Marshall Quadrangle Powhatan Point 7.5'
6) Well Operator Address Address Tug Hill Operating, LLC 380 Southpointe Boulevard, Plaza II, Suite 200 Canonsburg, PA 15317	7) Designated Agent Dianna Stamper, CT Corporation System Address 5400 D Big Tyler Road Charleston, WV 25313
8) Oil and Gas Inspector to be notified Name James Nicholson Address P.O. Box 44 Moundsville, WV 26041	9)Plugging Contractor Name Address
 Check pressure Remove TA Cap Rig up cementers 	ner of plugging this well is as follows: at, or until cemented to surface, taking returns into cellar
5. Install well cap and RDMO	RECEIVED Office of Oil and Gas MAY Department of Environmental Protection
Notification must be given to the district or work can commence.	il and gas inspector 24 hours before permitted
Work order approved by inspector	lustan Date 5/27/2020

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

API	<u>47</u> <u>051 021</u>	190 _{County} Marsha	all Di	strict Frank	din	
Quad	Powhatan Point 7.5				ne	
Farm 1	_{name} Donna Vivian Y	oho (TOD) Gary Lance Yo		ell Number	Old Crow N	-19HU
Opera	tor (as registered with the	ne OOG) Tug Hill Operating	g, LLC			
Addre	SS380 Southpointe Boulev	rard, Plaza II, Suite 200 City Ca	nonsburg	State PA	Z	p_15317
As Dr	illed location NAD 8: Top ho	ole Northing 4,403,187.65	ed plat, profile view, and c	leviation sur g_520,295.26	vey	
	Landing Point of Cur	0		521,016.3		
	Bottom Ho	ole Northing <u>4,407,352.2</u>	Easting	518,893.6		
Elevat	ion (ft) 1264.99'	_ GL Type of Well	□New ■ Existing	Type of R	eport □Interi	n ≜ Final
Permi	t Type Deviated	□ Horizontal ■ Horizo	ntal 6A	Depth Ty	pe 🗆 Dee	p □ Shallow
Туре	of Operation Conver	t □ Deepen ■ Drill	□ Plug Back □ Redrilli	ng □ Rev	vork 🗆 Stim	ulate
Well	Type □ Brine Disposal	□ CBM ■ Gas □ Oil □ Se	condary Recovery Solu	ition Mining	□ Storage □	Other
		e □ Multiple Fluids Prod otary	uced □Brine □Gas	□ NGL □	Oil 🗆 Other	
Produc Mud	g Media Surface hole ction hole			e ■ Air ī	□ Mud □ Fres	sh Water □ Brine
	ermit issued7/18/				illing ceased _	
	ompletion activities beg		_ Date completion activit		n/a	
Verba	l plugging (Y/N)	Nate permission grante	ed	Granted by		
Please	note: Operator is requi	ired to submit a plugging appli	cation within 5 days of ver	bal permissio	on to plug	
Freshy	water depth(s) ft	886'	Open mine(s) (Y/N) dep	oths	n	
	ater depth(s) ft	2,167'	Void(s) encountered (Y/			n
		- 788'; Pittsburgh - 880'	Cavern(s) encountered (· · -		n
	being mined in area (Y		()	, <u>F</u>		
		,			Re	viewed by:

_
of

Conductor Surface		Size	Depth	Used	wt/ft		Depth(s)	* Provi	de details below*
Surface	36	30	120	New	В	W	N/A		Υ
	26	20	991	New	J55	133#	N/A		Υ
Coal	26	20	991	New	J55	133#	N/A		Υ
Intermediate 1									
Intermediate 2									
Intermediate 3									
Production									
Γubing									
Packer type and dep	pth set		-						
CEMENT DATA	Class/Type of Cement	Number of Sacks			Yield t ³ /sks)	Volume (ft ³)	Тор	ment (MD)	WOC (hrs)
Conductor	Α	338	15.6	3	1.2	406		0	8
Surface	Α	1808	15.6	3	1.2	2170		0	8
Coal	Α	1808	15.6	3	1.2	2170		0	8
ntermediate 1									
Intermediate 2									
Production Production									
Tubing									· · · · · · · · · · · · · · · · · · ·
Lubing									
Orillers TD (ft) Deepest formati Plug back proce	ion penetrated Medure N/A	Mauch Chunk Formation	on	Loggers T	TD (ft) to (ft) _N/A				
Check all wireli		□ caliper □ neutron	□ density □ resistivity		ed/direction		induction temperature	□soni	c
Well cored		Convention					gs collected	■ Yes □	No No
DESCRIBE TH Surface String - 3 centralize	IE CENTRALIZ	ZER PLACEME	ENT USED FC	OR EACH C	ASING ST	RING _			

TYPE OF TRACER(S) USED

WAS WELL COMPLETED OPEN HOLE? □ Yes ■ No DETAILS _

WERE TRACERS USED □ Yes ■ No

WR-	35
Rev.	8/23/13

n	- C
Page	01

90

Farm name Donna Vivian Yoho (TOD) Gary Lance Yoho	Well number	Old Crow N-19HU
---	-------------	-----------------

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of	Amount of	Amount of Nitrogen/other (units)
Addie (B1111)	Tressure (TSI)	Tressure (151)	1511 (151)	Troppant (103)	Water (0013)	Tritrogen/other (units)
				-		

Stimulations Date						

Please insert additional pages as applicable.

Rev. 8/23/13								
API 47- 051	_ 02190	Farm	name Donna Vivi	an Yoho (TOD)	Gary Lance Yol	no Well number	Old Cro	w N-19HU
RODUCING I	FORMATION(S)	DEPTHS					
		<u> </u>		TVD		MD		
				_TVD		MD		
				<u> </u>				
	,							
lease insert ad	ditional pages a	s applicable.		-				
SAS TEST	□ Build up □	Drawdown	□ Open Flow	OI	L TEST □ F	Flow □ Pump		
HUT-IN PRE	SSURE Surf	ace	_psi Botto	m Hole	psi	DURATION C	OF TEST	hrs
PEN FLOW	Gas	Oil	NGL	w		GAS MEASU	RED BY	
	mcf	pd	bpd	bpd	bpd	□ Estimated	□ Orific	e □ Pilot
ITHOLOGY/	TOP	воттом	TOP	воттом				
ORMATION	DEPTH IN FT	DEPTH IN FT	DEPTH IN FT		DESCRIBE R	OCK TYPE AND	RECORD (QUANTITYAND
	NAME TVD	TVD	MD	MD	TYPE OF FL	UID (FRESHWAT	ER, BRINE	, OIL, GAS, H ₂ S, ETC)
Powiekley Cool	0	000	0	000			Cool	
Sewickley Coal Pittsburgh Coal	906	906	906	903			Coal	
Mauch Chunk	913	1021	913	1021		Mississip	pian Red Sh	nale
			***************************************	***************************************				
							, , , , , , , , , , , , , , , , , , , ,	
lease insert ad	ditional pages a	s annlicable						
	ctor Nabors Dri		oc LICA Inc					
Orilling Contraddress 143 Cre		iling rechnologi	City	Clearfield		State PA	7in 10	8830
			City			_ State	Zip	
ogging Comp	-		-					
Address		· · · · · · · · · · · · · · · · · · ·	City			State	Zip	
	npany Halliburto							
ddress 1000 N	loble Energy Drive		City	Canonsburg		State PA	Zip _1	5317
timulating Co	mpany N/A							
•	inpuny		City			State	Zip	
-	ditional pages a		,					
ommlet-1 1	Garrett Bagwel	ı			Talanta	817-632-5200		
	Erriff Ly	1	Title F	ngineer		817-632-5200 Date 6	5/3/2020	
-51111111	weres the		11tic	_		Date		

Page ___ of ___

WR-35

WW-4A Revised 6-07

(a) Name

Address

4) Surface Owner(s) to be served:

Donna Yoho

3682 Rines Ridge Road

1) Date: 1/17/202	0	
2) Operator's Well No	unher	
Old Crow N-19HU		
3) API Well No : 47 -	051	02190

Consol Energy, Inc. Leatherwood, Inc. Altn: Casey Saunders

1000 Consol Energy Drive

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

5) (a) Coal Operator

Name

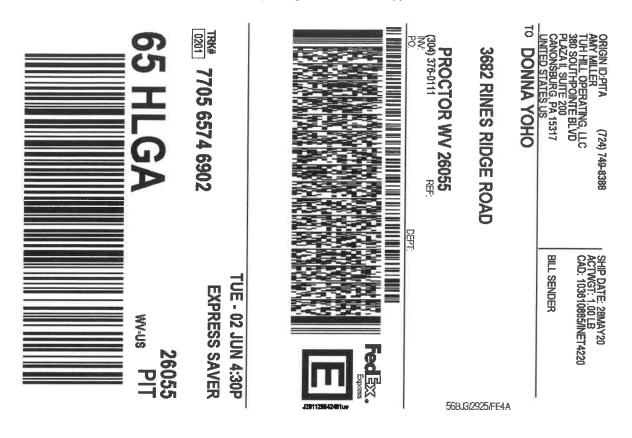
Address

Proctor WV 26055	Canonsburg, PA 15317
(b) Name	(h) Coal Owner(s) with Declaration
Address	Name Name
	Address
(c) Name	Name
Addréss	Address
(0) I	
5) Inspector Address	(c) Coal Lessee with Declaration Name
EMIL COS	Address
Telephone	: univers
TO THE PERSONS NAM	ED ABOVE: You should have received this Form and the following documents:
	, , , , , , , , , , , , , , , , , , ,
(1) The application to Plug at well its and the plugging v	nd Abandon a Well on Form WW-4B, which sets but the parties involved in the work and describes the
	showing the well location on Form WW-6.
This are an energy annih ad the sale for	manufacture for the first of the state of th
flowever, you are not required to tal	ments is that you have rights regarding the application which are summarized in the instructions on the reverses side.
·	•
Take notice that under Chapter 22-6	of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and nit to plug and abandon a well with the Chief of the Office of Oil and Gas. West Virginia Department of Environmental
Protection, with respect to the well:	at the location described on the attached Application and dericted on the attached born way 6. Coming of this Maria
the Application, and the plat have	been mailed by registered or centified mail or delivered by hand to the person(s) named above for by publication in
certain circumstances) on or before t	the day of marking or delivery to the Chief.
	Supposes to the
	Well Operator Tug Hill Operating, LLC
OFFICIAL SEAL	By: Amy L. Miller Will You Chick of Oil and One
NOTARY PUBLIC	Is: Permitting Specialist - Appalachia Region
STATE OF WEST VIRGINIA MICAH FEATHER	Address 380 Southpointe Boulevard, Plaza II, Suite 200 MÁÝ 2 8 3 100 II
HC 71 BOX 132 E	Canonsburg, PA 15317
My commission expires August 8, 2021	Telephone 724-749-8388 WW 4-9-8-48-9-8-9-8-9-8-9-8-9-8-9-8-9-8-9-8
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	= hVirollifernal Protection.
	OD M
ubscribed and sworn before me	
Au Commission Visit Peril	Notary Public
ly Commission ExpiresAc	gust 8, 2021
il and Gas Privacy Notice	

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part 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 depprivacyoffier wv.gov.

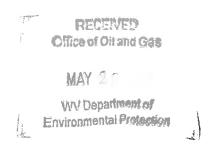


#### After printing this label:

- 1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
- 2. Fold the printed page along the horizontal line.
- 3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.





#### After printing this label:

- 1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
- 2. Fold the printed page along the horizontal line.
- 3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.



Wy Department of Environmental Protection

#### SURFACE OWNER WAIVER

Operator's Well Number

Old Crow N-19HU

#### INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if 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:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

<u>Time Limits and methods for filing comments.</u> The law requires these materials to be served on or before the date the operator files his Application. You have FIVE (5) DAYS after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments of the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;

W/V Department of

5) The applicant has committed a substantial violation of a previous permit or a substantial motione or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation...".

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

#### VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

I further state that I have no	objection to	the planned work	described in the	ese materials,	and I have no
objection to a permit being issued on the	hose materials	s.			
FOR EXECUTION BY A NATURAL I ETC.	PERSON		FOR EXECU	TION BY A CO	ORPORATION,
	Date	Name			
Signature		By			

Its

Signature

Date

Date

API No. 47-051-02190 Ponna Vivian Yoho (TOD) Gary Lance Yoho
Well No. Old Crow N-19HU

MAY 3

## INSTRUCTIONS TO COAL OPERATORS OWNERS AND LESSEE

The well operator named on the obverse side of WW-4 (B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inspector is notified. Which date shall not be less then five days after the day on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of Oil & Gas.

This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, Article 6, Chapter 22 of the Code and given in detail on obverse side of this application.

NOTE: If you wish this well to be plugged according to 22-6-24(d) then as per Regulation 35CSR4-13.9 you must complete and return to this office on form OB-16 "Request by Coal Operator, Owner, or Lessee for plugging" prior to the issuance of this plugging permit.

	WAIVER	WV Department of Environmental Protection
The undersigned coal operatorhas examined this proposed plugging work done at this location, provided, the well of Virginia Code and the governing regulation	corder. The undersigned has operator has complied with	
Date:		
	By:	
	Its	

API Number 47 - 0% - 02190 Operator's Well No. 064 Cox 8 1931

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

HUIDS CULTINGS DISPOSAL & RECEAMATION PLAN

Operator Name Tog Hill Operating, LLC OP Code 494510851
Watershed (HUC 10) Tributary of Fish Creek (HUC 10) Quadrangle Powhalan Point 7.5'
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No V
Will a pit be used? Yes No V
If so, please describe anticipated pit waste N/A - Cement will be mixed on site in trucks
Will a synthetic liner be used in the pit? Yes No V If so, what nil? n/a Chice of Oil and Cas
Proposed Disposal Method For Treated Pit Wastes,
Land Application (if selected provide a completed form WW-9-GPP)  MAY 2 469
Underground Injection ( DIC Permit Number WV Department of
Reuse (at API Number
Other (Explain
Will closed loop systembe used? If so, describe: N/A - No drilling will be done
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. N/A - No drilling will be done
-If oil based what type? Synthetic, petroleum, etc. N/A - No drilling will be done
Additives to be used in drilling medium? N/A - No drilling will be done
Drill cuttings disposal method? Leave at pit. landfill, removed offsite, etc. N/A - No drilling will be done
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A - No dilling will be done
-Landfill or offsite name/permit number? N/A - No dolling will be done
Permittee shall provide written notice to the Office of Oil and Grs of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLICITION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.  I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that based on my inquiry of those individuals immediately responsible for obtaining the information. I believe that the information is true, accurate, and complete. I am aware that the Information penalties for submitting false information, including the possibility of fine or imprisonment.
Company Official Signature ANY Stude
Company Official (Typed Name) Amy Miller  Wy Department of
Company Official Little Permitting Specialist - Appalachia Region WV Department of Environmental Protection
· · · · · · · · · · · · · · · · · · ·
Subscribed and sworn before me this 27 day of May . 1920
OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA MICAH FEATHER HC 71 BOX 132 E ELLAMORE. WV 26267 My commission expires August 6, 202

Operator's Well No. Old Crow N-19HU

	eatment: Acres Disturbed 9.		
Lime 3	Tons/acre or to correc	ot to pH 6.5	
Fertilizer type 10	)-20-20		
Fertilizer amount	500	lbs/acre	
Mulch 2.5		_Tons/acre	
		Seed Mixtures	
7	Гетрогагу	Perma	enent
Seed Type	lbs/acre	Seed Type	lbs/acre
Rye Grain	140	Tall Fescue	40
		Ladino Clover	5
Maps(s) of road, location, rovided). If water from th L, W), and area in acres, c		l application (unless engineered plans incluvide water volume, include dimensions (L,	
Maps(s) of road, location, provided). If water from th L, W), and area in acres, cohotocopied section of inv	e pit will be land applied, pro of the land application area. olved 7.5' topographic sheet.	vide water volume, include dimensions (L,	
provided). If water from the L, W), and area in acres, or Photocopied section of inv	e pit will be land applied, pro of the land application area.	vide water volume, include dimensions (L,	
Maps(s) of road, location, provided). If water from the L, W), and area in acres, control of the Photocopied section of inverse Plan Approved by:	e pit will be land applied, pro of the land application area. olved 7.5' topographic sheet.	vide water volume, include dimensions (L,	W, D) of the pit.
Maps(s) of road, location, provided). If water from the L, W), and area in acres, control of the Photocopied section of inverse Plan Approved by:	e pit will be land applied, pro of the land application area. olved 7.5' topographic sheet.	vide water volume, include dimensions (L,	W, D) of the pit.
Maps(s) of road, location, provided). If water from the L, W), and area in acres, control of the Photocopied section of inverse Plan Approved by:	e pit will be land applied, pro of the land application area. olved 7.5' topographic sheet.	rvide water volume, include dimensions (L,	W, D) of the pit.
Maps(s) of road, location, provided). If water from the L, W), and area in acres, control of the Photocopied section of inverse Plan Approved by:	e pit will be land applied, pro of the land application area. olved 7.5' topographic sheet.	RECEIVE Office of Oil a	W, D) of the pit.
Maps(s) of road, location, provided). If water from the L, W), and area in acres, control of inverse Photocopied section of inverse Plan Approved by:	e pit will be land applied, pro of the land application area. olved 7.5' topographic sheet.	vide water volume, include dimensions (L,	W, D) of the pit.
Maps(s) of road, location, provided). If water from the L, W), and area in acres, or Photocopied section of inverse Plan Approved by:	e pit will be land applied, pro of the land application area. olved 7.5' topographic sheet.	RECEIVE Office of Oil a	W, D) of the pit.
Maps(s) of road, location, provided). If water from the L, W), and area in acres, control of the Photocopied section of inverse Plan Approved by:	e pit will be land applied, pro of the land application area. olved 7.5' topographic sheet.	RECEIVE Office of Oil a	W, D) of the pit.
Maps(s) of road, location, provided). If water from the L, W), and area in acres, control of the Photocopied section of inverse Plan Approved by:	e pit will be land applied, proof the land application area.  olved 7.5' topographic sheet.	RECEIVE Office of Oil a	W, D) of the pit.

WW-9- GPP Rev. 5/16 NA

Page	of 2
API Number 47 -	
Operator's Well No.	

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

Oį	Operator Name:	
W	Watershed (HUC 10):	Quad:
Fa	Farm Name:	
1.	<ol> <li>List the procedures used for the treatment and discharge of groundwater.</li> </ol>	fluids. Include a list of all operations that could contaminate the
2.	2. Describe procedures and equipment used to protect grounds	vater quality from the list of potential contaminant sources above
3.	. List the closest water body, distance to closest water body discharge area.	y, and distance from closest Well Head Protection Area to the
		RECEIVED
		Office of Oit and Gas
		MAY 2 C Lill
		WV Department of Environmental Protection
1.	. Summarize all activities at your facility that are already regu	lated for groundwater protection.
Г		

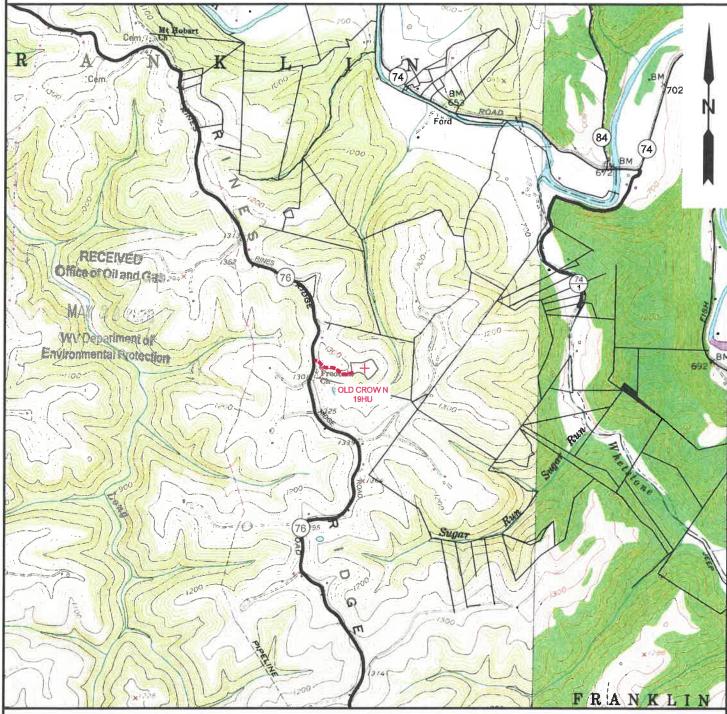
5. Discuss any existing groundwater quality data for your facility or an adjacent property.

VW-9- GPP ev. 5/16	N/A	Page of API Number 47 Operator's Well No
Provide a statement that n	o waste material will be used for deicing	or fill material on the property.
		•
Describe the groundwater provide direction on how t	r protection instruction and training to be to prevent groundwater contamination.	pe provided to the employees. Job procedures shall
Provide provisions and fre	equency for inspections of all GPP elemen	
		Office of Oil and Gas
		MAY 2 5

WW-9

## PROPOSED OLD CROW N - 19HU

SUPPLEMENT PG. 2



NOTE: CLOSEST WATER PURVEYOR GRANDVIEW - DOOLIN PUBLIC SERVICE DISTRICT PROCTOR, WV LAT: 39.7137712 LON: -80.8258327

LOCATED: S 37°39'00" W AT 29,404.13' FROM OLD CROW N - 19HU SURFACE LOCATION



	TOPO SECTION:  GLEN EASTON & POWHATAN POINT 7.5'		OPERATOR:	
İ			PREPARED FOR: TUG HILL OPERATING, LLC 380 SOUTHPOINTE BLVD	
	COUNTY DISTRICT			
	MARSHALL	FRANKLIN	SUITE 200 CANONSBURG	, PA 15317
14	DRAWN BY	JOB NO.	DATE	SCALE
14	K.G.M.	8796	01/23/19	1" - 2000'





## West Virginia Department of Environmental Protection Office of Oil and Gas

### WELL LOCATION FORM: GPS API: 47-051-02190 WELL NO.: Old Crow N-19HU FARM NAME: Donna Vivian Yoho (TOD) Gary Lance Yoho RESPONSIBLE PARTY NAME: Tug Hill Operating, LLC COUNTY: Marshall _____ DISTRICT: Franklin QUADRANGLE: Powhatan Point 7.5' SURFACE OWNER: Donna Vivian Yoho (TOD) Gary Lance Yoho ROYALTY OWNER: Donna Vivian Yoho, et al UTM GPS NORTHING: 4,403,187.65 UTM GPS EASTING: 520,295.26 GPS ELEVATION: 385.57 The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements: Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: 1. height above mean sea level (MSL) - meters. Accuracy to Datum – 3.05 meters 2. RECEIVED Data Collection Method: Office of Oil and Gas Survey grade GPS ____: Post Processed Differential X MAY 28 Real-Time Differential _____ Mapping Grade GPS _____: Post Processed Differential X uni Department of Environmental Protection Real-Time Differential Letter size copy of the topography map showing the well location. I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas. **Permitting Specialist** 5/27/2020

Title

Date

### 11/10/2016

### PLUGGING PERMIT CHECKLIST

Pluggi	ng Permit
<b>✓</b>	WW-4B
<b>✓</b>	WW-4A signed by inspector
	SURFACE OWNER WAIVER or PROOF THAT APPLICATION WAS SENT BY REGISTERED OR CERITFIED MAIL
	COAL OWNER/COAL OPERATOR/COAL LESSEE WAIVERS or PROOF THAT APPLICATION WAS SENT BY REGISTERED OR CERTIFIED MAIL
1	WW-9 PAGE 1 (NOTARIZED)
	WW-9 PAGE 2 with attached drawing of road, location, pit and proposed area for land application
	WW-9 GPP PAGE 1 and 2 if well effluent will be land applied RECENT MYLAR PLAT OR WW-7
<b>√</b>	WELL RECORDS/COMPLETION REPORT
<b>√</b>	TOPOGRAPHIC MAP OF WELL, SHOWING PIT IF PIT IS USED
<b>√</b>	MUST HAVE VALID BOND IN OPERATOR'S NAME
	CHECK FOR \$100 IF PIT IS USED