

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 Jim Justice , Governor Austin Caperton , Cabinet Secretary www.dep.wv.gov

Friday, January 19, 2018 WELL WORK PERMIT Horizontal / Plugging

TUG HILL OPERATING, LLC 550 BAILEY AVENUE, SUITE 510

FORT WORTH, TX 76107

Re:

Permit approval for CORLEY 5H

47-051-01439-00-00

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: CORLEY 5H Farm Name: CORLEY, JAMES A. & JILL C.

U.S. WELL NUMBER:47-051-01439-00-00

Horizontal / Plugging

Date Issued: 1/19/2018

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. <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.

WW-4B Rev. 2/01

1) Date	Decemb	er, 18 ,	20 17
2) Opera	tor's		
Well :	No . Corley N	No. 5H	
3) API W	ell No.	47-051	- 01439

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

5)	Location: Elevation 1253'	Watershed Tributary of Long R	un
	District Franklin	County Marshall Quadrang	
	Total Hill On anadis as 11 C		
5)	Well Operator Address Tug Hill Operating, LLC 380 Southpointe Boulevard, Plaza II.		
	Canonsburg, PA 15317		n, WV 25313
)	Oil and Gas Inspector to be notification	Name Shallenberger Con	
	Address P.O. Box 44	Address 195 Enterprise	Lane
	Moundsville, WV 26041	Connellsville, PA	15425
	Work Order: The work order for the Remove metal plate covering we install cement tub TVD 38' to circulate Cement to surface with Class "A	ell (20" conductor set at TVD 40 e cement from bottom up. " Type 1 cement.	O'). RECEIVED Office of Oil and DEC 22 20
	Remove metal plate covering we Install cement tub TVD 38' to circulate	ell (20" conductor set at TVD 40 e cement from bottom up. " Type 1 cement.)').
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Page 1 of s =

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

WR-35 Rev. 8/23/13									Page 2 of 8 🖽
API 47-051	- 01439	Farm r	ame CORLE	/, JAMES A	L & JILL	_ CWel	l number_	CORLEY	5H
CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft		Basket Depth(s)		ment circulate (Y/N) vide details below*
Conductor	26"	20"	40'	NEW	54.	.5#/ft	N/A		Υ
Surface						· · · · · · · · · · · · · · · · · · ·			
Coal									
Intermediate 1									
Intermediate 2									
Intermediate 3									
Production									
Tubing		-	<u> </u>						
Packer type and de	epth set			<u>!</u>	!	I.			
Comment Details the well to the perm	itted TMD, however, t	this never occurred un	der Gastar's ownership	.	temporarily a	abandoned. The		t was to come b	ack and finished drilling WOC
DATA	Class/Type of Cement	of Sac		- 7	3/sks)	(ft ¹)		op (MD)	(hrs)
Conductor	CLASS "A" TY	PE 1 99	15.0	6 1	1.19	117		SFC	8
Surface									
Coal									
Intermediate I									
Intermediate 2									
Intermediate 3						·			
Production									
Tubing									
Drillers TD (fit Deepest forma Plug back pro	tion penetrated	SUFACE MATERIAL	•	Loggers T Plug back					
Kick off depth	(ft) <u>N/A</u>								
Check all wire	line logs run	□ caliper □ neutror			ed/directi a ray		induction temperatu	ire □sor	nic
Well cored	Yes B No	Convent	ional Side	ewall	w	ere cutting	s collecte	d □ Yes	■ No
		•				_			
DESCRIBE T	HE CENTRAL	LIZER PLACEN	ENT USED FO	OR EACH CA	ASING S	TRING <u>N</u>	/A		
WAS WELL	COMPLETED	AS SHOT HOL	E 🗆 Yes 🗂	No Di	ETAILS				
WAS WELL	COMPLETED	OPEN HOLE?	□Yes ■ N	No DET	AILS _				
WERE TRAC	ERS USED	□Yes ■ No	TYPE OF 1	TRACER(S)	USED _		 		

WR-35 Rev. 8/23/13 Page 3 of 6 E

API 47- 051 _ 01439

Farm name CORLEY, JAMES A. & JILL C. Well number CORLEY 5H

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
	N/A				
		,			
			<u>.</u>		
				-	

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)	
	N/A								
<u></u>									
			, - 	 				,	
						<u> </u>			
<u> </u>									
						1			
								RECEIVE	D
								Office of Oil a	nd Gas
								Office of Oil a	2017
								WV Departi Environmental	nent of Protecti

Please insert additional pages as applicable.

Page 4 of 6 E WR-35 Rev. 8/23/13 Farm name CORLEY, JAMES A. & JILL C. Well number CORLEY 5H API 47- 051 _ 01439 **DEPTHS** PRODUCING FORMATION(S) TVD Please insert additional pages as applicable. □ Build up □ Drawdown □ Open Flow OIL TEST - Flow - Pump SHUT-IN PRESSURE Bottom Hole DURATION OF TEST hrs Surface psi Oil Water OPEN FLOW Gas GAS MEASURED BY bpd bpd bpd ☐ Estimated ☐ Orifice LITHOLOGY/ TOP BOTTOM TOP BOTTOM DEPTH IN FT DESCRIBE ROCK TYPE AND RECORD QUANTITYAND DEPTH IN FT DEPTH IN FT FORMATION DEPTH IN FT MD TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H2S, ETC) NAME TVD MD 40 Surface Material 40 Soil and surface rock (shale and sandstone) Please insert additional pages as applicable. Drilling Contractor BUTCHES RAT HOLE Address 1428 ROUTE 519 Zip 15330 EIGHTY FOUR State PA City Logging Company City State Zip Address Cementing Company BAKER HUGHES RECEIVED Office of Oil and Gas Zip 26301 Address 837 PHILIPPI PIKE State WV CLARKSBURG City DEC 2 2 2017 Stimulating Company City State Zip WV Department of Environmental Protection Please insert additional pages as applicable. Telephone 724-749-8388 Completed by Jonathan White Title Regulatory Analyst Date 08/14/2017 Signature Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

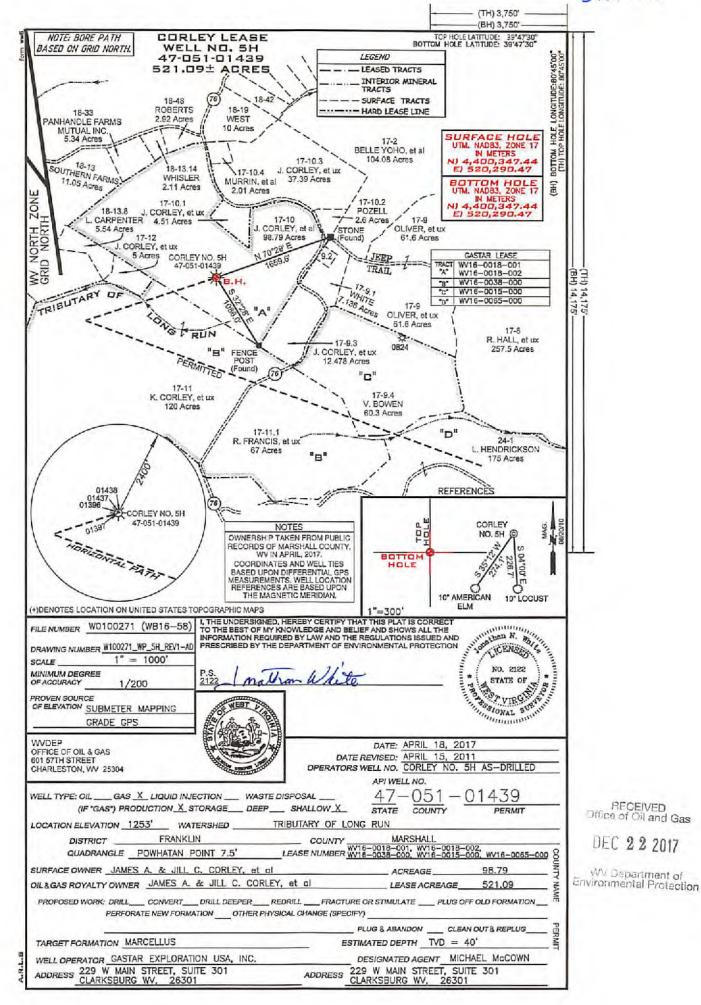
Corley 5H Cement Additives

Surface: Class A + 3% CaCl + ¼ #per sack flake

RECEIVED Office of Oil and Gas

DEC 2 2 2017

Page:5vi20frknental Protection



WW-4A	
Revised	6-07

1) Date:	December 18, 2017	
2) Operato	or's Well Number	
Corley No. 5H		

3) API Well No.: 47 -

051 - 01439

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

(m) 1 mmc =	ner(s) to be served James A. and Jill C. C		5) (a) Coal Operat Name	or
(a) Name Address	208 Flicksville Road	coney	Name Address	-
Address	Bangor, PA 18013		Address	_
(b) Name	Dangor, 17, 10010		(b) Coal C	Owner(s) with Declaration
Address	-		NI	CNX Land Resources, Inc.
Hudress			Address	Consol Plaza Tax Level 2, 1000 Consol Energy Drive
	-			Canonsburg, PA 15317
(c) Name			Name	
Address	1		Address	
	-			
) Inspector	James Nicholson		(c) Coal L	essee with Declaration
Address	P.O. Box 44		Name	
	Moundsville, WV 2604	41	Address	
Telephone	304-552-3874			
(1) The	application to Plug an its and the plugging w	nd Abandon a Wel vork order; and	ll on Form WW-4B, which	ceived this Form and the following documents:
(1) The well (2) The The reaso However, Take notic accompan Protection	application to Plug an its and the plugging w plat (surveyor's map) a n you received these docu you are not required to tak the that under Chapter 22-6 ying documents for a perm , with respect to the well a	ad Abandon a Well work order; and showing the well I ments is that you ha be any action at all. of the West Virgini init to plug and aband at the location descri	Il on Form WW-4B, which location on Form WW-6, ave rights regarding the appoint Code, the undersigned we don a well with the Chief of ibed on the attached Application.	th sets out the parties involved in the work and describes dication which are summarized in the instructions on the reverses sell operator proposes to file or has filed this Notice and Applement the Office of Oil and Gas, West Virginia Department of this Notice and depicted on the attached Form WW-6. Copies of this Notice and depicted on the attached Form WW-6.
(1) The well (2) The The reaso However, Take notic accompan Protection the Applie	application to Plug an its and the plugging w plat (surveyor's map) a n you received these docu you are not required to tak the that under Chapter 22-6 ying documents for a perm , with respect to the well a	ad Abandon a Well work order; and showing the well I ments is that you ha are any action at all. Sof the West Virgini nit to plug and aband at the location describeen mailed by regi-	Il on Form WW-4B, which location on Form WW-6, ave rights regarding the appoint Code, the undersigned we don a well with the Chief of ibed on the attached Applications or certified mail or of the control of the contr	ch sets out the parties involved in the work and describes dication which are summarized in the instructions on the reverses sell operator proposes to file or has filed this Notice and Applement the Office of Oil and Gas, West Virginia Department of Environment at a depicted on the attached Form WW-6. Copies of this Not delivered by hand to the person(s) named above (or by publication)
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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.

即成0017 院内 PEGISTRAR'S CERTIFICATION OF DEATH WARNING: It is illegal to duplicate this copy by photostat or photograph.

Fee for this certificate, \$6,00

41. 33. 41. 41.

Jan Pest

Book-Page Recording Fee \$5.00 Additional \$6.00

MARSHALL County 09:57:46 AM Instrument No 1344966 Date Recorded 06/25/2013 Document Type MIS Pages Recorded 1

17-138

P 19610775

Certification Number

This is to certify that the information here given is correctly copied from an original Certificate of Death duly filed with me as Local Registrar. The original certificate will be forwarded to the State Vital

Local Registrar

CERTIFICATE OF DEATH RN621986 Mitarzkie Chanic lymphocyke Irukemia 0878108 10(6-14) 80/47/001

RECEIVED Office of Oil and Gas

DEC 27 2017

STATE OF WEST VIRGINIA, MARSHALL COUNTY, SCT.:

WV Department of **Environmental Protection**

I. IAN PEST. Clerk of	the County Commission of	said County, do hereby o	certify that the annex	ed writing, bearing
date on the 12 th day of Mara	2013 was no	esented for and by me a	dmitted to second in	my office upon the
I, JAN PEST, Clerk of date on the A.M. day of Assertificate as to the parties therein nar	25 th day	of Allaha	2013 - 9	To Frederick W
above certificate as to the parties therein-nac	ted this	or the second		9-4-0 Clock L.M.
			DAL YEST	
CPS 5M 3-13		TESTE:		Clerk.

WW-9 (5/16)

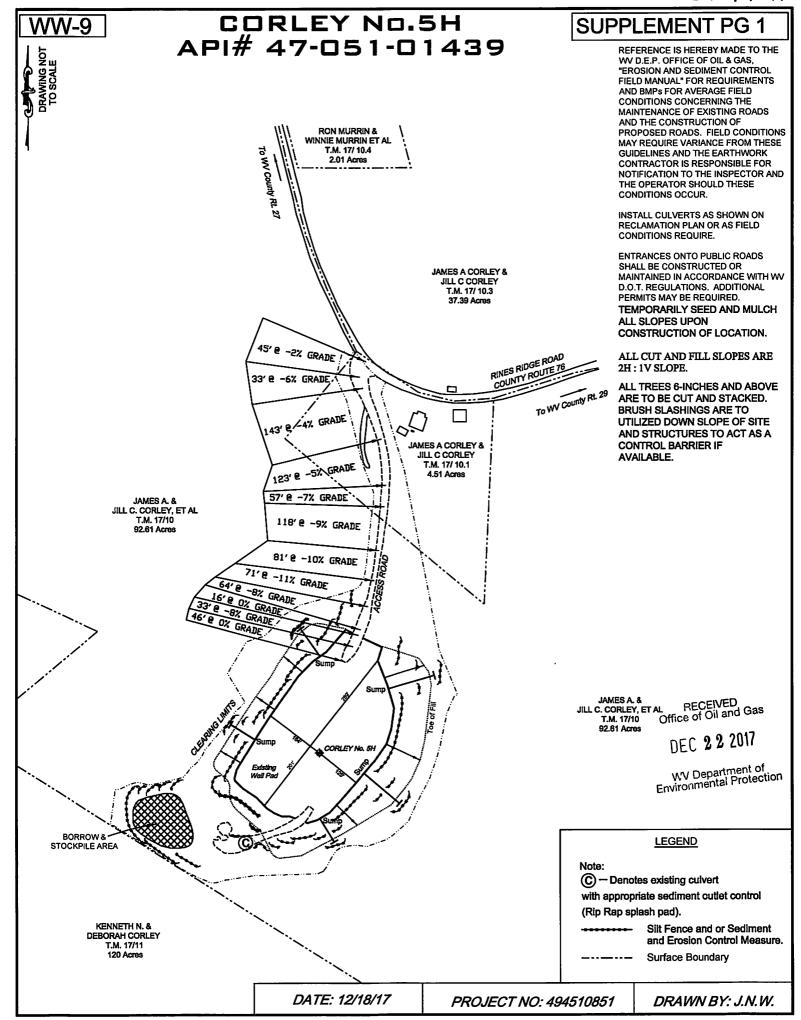
API Number	47 - 0)51	_01439	
Operator's W	ell No.	Corley	No. 5H	

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Tug Hill Operating, LLC	OP Code 494510851
Watershed (HUC 10) Fish Creek - Ohio River (Undefined)	Quadrangle Powhatan Point 7.5'
Do you anticipate using more than 5,000 bbls of water to c	complete the proposed well work? Yes No
Will a pit be used? Yes No V	
If so, please describe anticipated pit waste: N/A	
Will a synthetic liner be used in the pit? Yes	No If so, what ml.? NVA ANY WELL EFFLUENT MUST
Proposed Disposal Method For Treated Pit Waste	RE CONTAINED IN TANKS
Land Application (if selected pr Underground Injection (UIC Po Reuse (at API Number Off Site Disposal (Supply form	revide a completed form WW-9-GPP) AND DISPOSE DO OFFSITE A PROPER MANUER. 2009)
Other (Explain_	. With dispositional to the control of the control
Will closed loop systembe used? If so, describe: N/A - No	o drilling will be done
Drilling medium anticipated for this well (vertical and hori	fizontal)? Air, freshwater, oil based, etc. N/A - No drilling will be done
-If oil based, what type? Synthetic, petroleum, etc.	c. N/A - No drilling will be done
Additives to be used in drilling medium? N/A - No drilling wi	ill be done
Drill cuttings disposal method? Leave in pit, landfill, remo	oved offsite, etc. N/A - No drilling will be done
-If left in pit and plan to solidity what medium wil	ill be used? (cement, lime, sawdust) N/A - No drilling will be done
-Landfill or offsite name/permit number? N/A - No	HECEVED AND GOS
Permittee shall provide written notice to the Office of Oil a West Virginia solid waste facility. The notice shall be prov where it was properly disposed.	and Gas of any load of drill cuttings or associated waste rejected at any 2 2 2017 vided within 24 hours of rejection and the permittee shall also disclose peartment of Environmental Protection
on April 1, 2016, by the Office of Oil and Gas of the Wes provisions of the permit are enforceable by law. Violations or regulation can lead to enforcement action. I certify under penalty of law that I have perso application form and all attachments thereto and that, based the information, I believe that the information is true, account to the information, including the possibility of fit Company Official Signature Company Official (Typed Name) Jonathan White	
Company Official Title Regulatory Analyst	>C1C+ 2C2
	of DECEMBER, 20 17 COMMONWEALTH OF PENNSYLVANIA
Maurela A Stead	Notary Public NOTARIAL SEAL MAUREEN A STEAD Notary Public

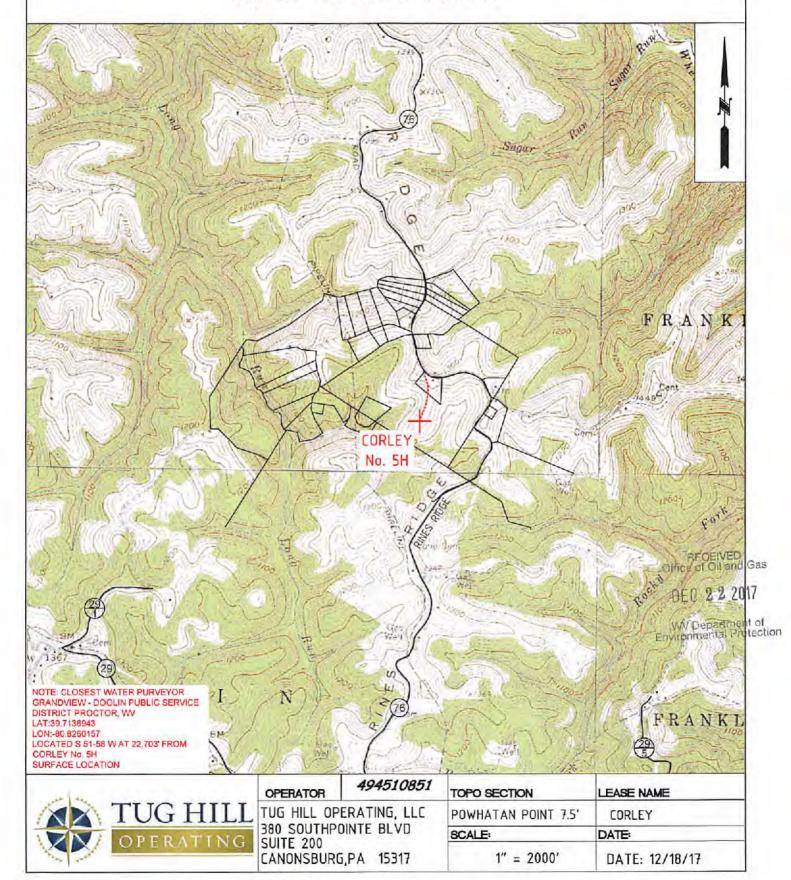
3	atment: Acres Disturbed 17.	78 Preveg etation pl	4 6.0
Lime 3	Tons/acre or to correct	to pH 6.5	
Fertilizer type 10-	-20-20		
Fertilizer amount_5	500	lbs/acre	
Mulch 2.5		Tons/acre	
		Seed Mixtures	
Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Rye Grain	140	Tall Fescue	40
		Ladino Clover	5
Maps(s) of road, location, provided). If water from the L, W), and area in acres, of	pit will be land applied, prov	application (unless engineered plans include vide water volume, include dimensions (L,	
Maps(s) of road, location, provided). If water from the L, W), and area in acres, of hotocopied section of invol	pit will be land applied, prove the land application area.		
Maps(s) of road, location, provided). If water from the L, W), and area in acres, of thotocopied section of involvant Approved by:	pit will be land applied, proventies proventies, proventies and application area.		W, D) of the pit, and dim
Plan Approved by:	pit will be land applied, prove the land application area.		W, D) of the pit, and dim
Maps(s) of road, location, provided). If water from the L, W), and area in acres, of Photocopied section of involved Plan Approved by:	pit will be land applied, prove the land application area.		W, D) of the pit, and dim



WW-9

CORLEY No. 5H API# 47-051-01439

SUPPLEMENT PG 2





West Virginia Department of Environmental Protection Office of Oil and Gas

WELL LOCATION FORM: GPS

47 054 04400		
_{API:} 47-051-01439	WELL NO.:_C	Corley No. 5H
FARM NAME: Fish Creek	c - Ohio River (Undef	ined)
RESPONSIBLE PARTY NAME	Tug Hill Operating,	LLC
COUNTY: Marshall	bistrict: Fra	nklin
QUADRANGLE: Powhatar		
surface owner: James	A. and Jill C. Corley	
ROYALTY OWNER: James	A. and Jill C. Corley	, Et Al
UTM GPS NORTHING: 4,40	00,347.44	(1252)
UTM GPS NORTHING: 4,40 UTM GPS EASTING: 520,2	290.47 GPS ELEVATI	ION: 381.81 M.
preparing a new well location plat f above well. The Office of Oil and O		API number on the
above well. The Office of Oil and Othe following requirements: 1. Datum: NAD 1983, Zon height above mean sea legal 2. Accuracy to Datum – 3. 3. Data Collection Method	for a plugging permit or assigned A Gas will not accept GPS coordinate ne: 17 North, Coordinate Units: me evel (MSL) – meters. 05 meters	API number on the es that do not meet
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above well. The Office of Oil and Othe following requirements: 1. Datum: NAD 1983, Zonheight above mean sea legal above mean sea legal above mean sea legal above grade GPS: Post P Real-T Mapping Grade GPS: Post Real-T 4. Letter size copy of the I the undersigned, hereby certify the	for a plugging permit or assigned A Gas will not accept GPS coordinate ne: 17 North, Coordinate Units: me evel (MSL) – meters. 05 meters 1: Processed Differential Time Differential st Processed Differential al-Time Differential topography map showing the we is data is correct to the best of my in required by law and the regulatio	API number on the es that do not meet eters, Altitude: Office of Oil and G DEC 2 2 2017 Ell location. Environmental Prote knowledge and

