

#### 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, November 1, 2019 WELL WORK PLUGGING PERMIT Vertical Plugging

CORNERSTONE MINING, LLC 200 CAPITOL STREET

CHARLESTON, WV 25301

Re: Permit approval for D-13 47-055-00061-00-00

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.

Operator's Well Number: D-13

Farm Name: POCAHONTAS LAND CORP.

Chief

James A. Martin

U.S. WELL NUMBER: 47-055-00061-00-00

Vertical Plugging Date Issued: 11/1/2019

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. 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 August 26	,	2019	
2)Operator's			
Well No. 494521673			
3) API Well No. 47-055		- 00061	

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

APPLICATION FOR A PERM	MIT TO PLUG AND ABANDON
4) Well Type: Oil/ Gas $\frac{X}{X}$ / Liquid (If "Gas, Production $\frac{X}{X}$ or Unit	d injection/ Waste disposal/ derground storage) Deep/ ShallowX
5) Location: Elevation2910	Watershed Crane Creek
District Rock	County Mercer Quadrangle Crumpler
6) Well Operator Cornerstone Mining, LLC	7) Designated Agent Derrick Kegley
Address 150 Courthouse Rd, Suite 302	Address 150 Courthouse Rd, Suite 302
Princeton, WV 24740	Princeton, WV 24740
8) Oil and Gas Inspector to be notified	9)Plugging Contractor
Name Gary Kennedy	Name Keystone Wireline Inc.
Address 66 Old Church Lane	Address 380 Southpointe Blvd, Suite 300
Pipestem, WV 25979	Canonsburg, PA 15317
hole with wireline and set CIBP at 4,882' of cement. Pull casing out of hole. casing. Set cement plug from top of plug up to 3,016'. Set cement plug f 849' (100' below 8-5/8" casing). Set possible, cut and remove 8-5/8" casi	CIBP to 100' above casing cut. Set gel rom 3,016' to 2,816'. Set gel plug up to
Notification must be given to the district o work can commence.	il and gas inspector 24 hours befor REGENTIL ted Office of Oil and Gas
0 - 1	OCT 3 1 2019
	EUNE OY Date WV Department of
BY PHONE	Environmental Protection



#### STATE OF WEST VIRGINIA DEPARTMENT OF MINES

#### Oil and Gas Division

#### WELL RECORD

Quadranele	Crumpler,	W.Va.	7놀'

Rotary X	Oil
Cable.	GasX
Recycling	Comb.
Water Flood	Storage
Disposal	

Quadrangia Crumpler, W.Va. 72°  Permit No. MER - 61	-	•	Recycling Water Floor Disposal	Comb Storage (Kind)
Company Texas International Petroleum Address Charleston, West Virginia Ferm Pocabontas Land Corpage 239, 90	Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Location (waters) West Fork of Crane Cre Well No. D-13 Elev. 2916. 36 District Rock County Mercer		21'	21'	Conductor
Pocahontas Land Corporation  Address Bluefield, West Virginia  Pocahontas Land	9 5/8 8 5/8	7491.	749'	Cemented w/505 sacks. Cement
Mineral rights are owned by Pocahontas Land  COPD. Address Bluefield, W.Va.  Drilling Commenced 8-14-77  Drilling Commenced 8-25-77	7 5 1/2 4 1/2	5017'	5017*	circulated  Cemented w/100 sacks.
Initial open flowcu. ftbbls.  Final production 329M cu. ft. per daybbls.	2 Liners Used			
Well open 6 hrs. before test 720 RP. Well treatment details: Ran gamma ray/collar log. Spotted 4906', 2 SPF, 31 shots. Fraced w/8 sand, 55,000# 20/40 sand. BDP - 20 vacuum.	330 barrels	15% HC1	Perc	<u>15.000# 80/10</u> 0
Coal was encountered at 139' - 141' 383' - Fresh water 30' Feet Producing Send Weir	Ø.1. 1	- 507', Water_4887'		Page
				A Daniela

Permetion Color Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remerks
Sand	19	139	3" Water @ 30'	
Coal	139	141		
Sand	141	383	•	• • •
Coal	383	387		•
Sand & Shale	387	400	1	•
Sand	400	505	1	•
Coal	505	507	1	• •
Sand & Shale	507	510		•
Sand	510	541	1	•
Coal	541	545		
Sandy Shale & Red Rock	545	1618		
Princeton Ravencliff Sand	1618	1663		
Sandy Shale	1663	1966		
Avis Lime	1966	2012		
Sand Shale & Red Rock	2012	2660		•
Upper Maxton Sand	2660	2735		
Sand & Shale	2735	2975 ,		
Maxton Sand	2975	3002		•
Sandy Shale	3002	3190		•
Lower Maxton	3190	3257		
Sandy Shale	3257	3347		
Little Lime	3347	3490		•
Sandy Shale	3490	3690		
Big Lime	3690	4613		
Sand & Shale	4613	4838		

(over)

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Date \_\_\_ November 9,

1977

APPROVED Texas International

8. Division Manager



WYGES Get Data

Enter Permit #: 00061 Select County: (055) Mercer Reset < Select datatypes: Check All)

II Location
II Productic
II Owner/Completion
II Stratigral
II Pay/Show/Water
II Logs Production
Stratigraphy
Logs Plugging
Sample
Btm Hole

County Code Translations
County Code Translations
Permit-Numbering Series
Usage Notes
Contact Information Disclaimer WVGES Main "Pipeline-Plus" New

Loc

Well: County = 55 Permit = 00061

Report Time: Thursday, October 17, 2019 1:09:53 PM

WV Geological & Economic Survey:

Location Information: View Map Location Information Inform

There is no Bottom Hole Location data for this well

API CMP\_DT SUFFIX STATUS SURFACE\_OWNER WELL\_NUM CO\_NUM LEASE LEASE\_NUM MINERAL\_OWN OPERATOR\_AT\_COMPLETION
4705500061 8/25/1977 Original Loc Completed Pocahontas Land D-13 PROP\_VD PROP\_TRGT\_FM TFM\_EST\_PR

Pay/Show/Water Information:

API CTOR ACTIVITY PRODUCT SECTION DEPTH\_TOP FM\_TOP DEPTH\_BOT FM\_BOT G\_BEF G\_AFT O\_BEF O\_AFT WATER\_QNITY
20 10500061 825/1977 Water Fresh Water Vertical 4887 Weir 4925 Weir 0 329

4705500061 825/1977 Pay Gas Vertical 4887 Weir 4925 Weir 0 329

Completion information:
Completion information informa

Production Gas Information: (Volumes in Mcf)

API PRODUCING OPERATOR

API PRODUCING OPERATOR

API PROSODOS I IIPCO (Texas International Petroleum Company)

4705500061 TIPCO (Texas International Texas International International Texas International Texas International Texas International Texas International In 153 

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Production Oil Information: (Volumes in Bbl) \*\* some operators may have repo

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2018	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008	2007	2006	2005	2004	2003	2002	2001	2000	
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Production	Water Information: (Volum	es in Gallo	ns)												
API	PRODUCING_OPERATOR	PRD_YEAR	ANN_WTR	JAN	FEB	JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DCM	APR	MAY	ND	JUL	AUG	SEP	OCT	VOV	DCM
4705500061	Energy Corporation of America	2016	0												
4705500061	Greylock Conventional, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	HICKNESS THICKNESS_QUALITY	ELEV DATUM	DATUM
4705500061	Original Loc	unidentified coal	Well Record	139	Reasonable	2	Reasonable	2916 0	Ground Level
470550006	Original Loc	unidentified coal	Well Record	383	Reasonable	4	Reasonable	2916 (	Ground Level
470550006	Original Loc	unidentified coal	Well Record	505	Reasonable	2	Reasonable	2916 0	Ground Level
470550006	Original Loc	unidentified coal	Well Record	541	Reasonable	4	Reasonable	2916 0	Ground Level
470550006	Original Loc	Princeton	Well Record	1618	Reasonable	45	Reasonable	2916 0	Ground Level
470550006	Original Loc	Avis Ls	Well Record	1966	Reasonable	46	Reasonable	2916 0	Ground Level
470550006	Original Loc	Up Maxton	Well Record	2660	Reasonable	75	Reasonable	2916 0	Ground Level
470550006	Original Loc	Maxton	Well Record	2975	Reasonable	27	Reasonable	2916 0	Ground Level
470550006	Original Loc	Lo Maxton	Well Record	3190	Reasonable	67	Reasonable	2916 0	Ground Level
470550006	Original Loc	Little Lime	Well Record	3347	Reasonable	43	Reasonable	2916 0	Ground Level
470550006	Original Loc	Big Lime	Well Record	3690	Reasonable	923	Reasonable	2916 0	Ground Level
470550006	Original Loc	Greenbrier Group	Well Record	3690	Reasonable	923	Reasonable	2916 0	Ground Level
470550006	05500061 Original Loc Weir	Weir	Well Record	4887	1887 Reasonable	38	38 Reasonable	2916 0	Ground Level

Wireline (E-Log) Information:  Wireline (E-Log) Information:  Wireline (E-Log) Information:  LOG_TOP_LOG_BOT_DEEPEST_FML_LOGS_AVAIL_SCAN DIGITIZED GR_TOP GR_BOT_D_TOP_D_BOT_N_TOP_N_BOT_L_TOP_L_BOT_T_TOP_T_BOT_S_TOP_S_BOT_O_TOP_O_BOT_INCHS_INCHS_REDUCED KOP_LOGMD_ELEV_KB_ELEV_GL_ELEV_DF_LOG_MSRD_FROM    LOG_TOP_LOG_BOT_DEEPEST_FML_LOGS_AVAIL_SCAN DIGITIZED GR_TOP GR_BOT_D_TOP_D_BOT_N_TOP_N_BOT_L_TOP_T_BOT_S_TOP_S_BOT_O_TOP_O_BOT_INCHS_				
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<u>Downloadable Log Images: We advise you to save the log image file to your PC for viewing.</u> To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.



# Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

- geologic log types:
  d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
  e photoelectric adsorption (PE or Pe, etc.)
- gamma ray
  induction (includes dual induction, medium induction, deep induction, etc.)
- m dipmeter n neutron (includes neutron porosity, sidewall neutron-SWN, etc.)

- s sonic or velocity
  t temperature (notudes borehole temperature, BHT, differential temperature, etc.)
  z spontaneous potential or potential
  mechanical log Types:
  b cement bord
- o other<sup>1</sup>
  p perforation depth control or perforate
- other logs may include, but are not limited to, such curves as audio, bit size, CCL-casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL-Nuclear Cement Top Locator, radioactive tracer, tension

There is no Plugging data for this well

There is no Sample data for this well

WW-4A Revised 6-07

#### RECEIVED Office of Oil and Gas

SEP 2 7 2019

1) Date:

August 26, 2019

2) Operator's Well Number

494521673

WV Department of Environmental Protection

3) API Well No.: 47 -

055

00061

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE 0F APPLICATION TO PLUG AND ABANDON A WELL

4)	Surface Owner(s) to be served: \		5) (a) Coal Operator	
,	(a) Name	Pocahontas Land Corp	Name	Cornerstone Mining, LLC
	Address	800 Princeton Avenue	Address	150 Courthouse Road, Suite 302
		P.O. Box 1517		Princeton, WV 24740
	(b) Name	Bluefield, WV 24701	(b) Coal Own	ner(s) with Declaration
	Address		Name \	Met Resources, LLC
			Address	P.O. Box 5064
				Princeton, WV 24740
	(c) Name		Name	
	Address		Address	
6) ]	Inspector	Gary Kennedy	(c) Coal Less	ee with Declaration
	Address	66 Old Church Lane	Name	Cornerstone Mining, LLC
		Pipestem, WV 25979	Address	150 Courthouse Road, Suite 302
	Telephone	304.382.8402		Princeton, WV 24740
	_			
TO	THE PER	RSONS NAMED ABOVI	E: You should have receive	ved this Form and the following documents:

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

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 accompanying documents for a permit 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 depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

Well Operator
By: Derrick Kegley
Its: Land Agent
Address 150 Courthouse Road, Suite 302
Princeton, WV 24740

Telephone 304.320.5576

OFFICIAL SEAL Notary Public State of West Virginia Jureny Reheters

Subscribed and sworn before me this \_

day of 500

2019

Notary Public State of West Virginia Jeremy Beheler Met Resources, LLC PO Box 5084 Princeton, WV 24740

My Commission Expires February 09, 202

Oil 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 <a href="mailto:depprivacyoffier@wv.gov">depprivacyoffier@wv.gov</a>.

WW-4B

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Office of Oil and Gas

SEP 2 7 2019

WV Department of Environmental Protection

# API No. 4705500061 Farm Name Well No. D-13

#### 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
has examined this proposed plugging work order.	her/ lessee/ of the coal under this well location. The undersigned has no objection to the work proposed to be has complied with all applicable requirements of the West
Date: 9/20/19	By: June Westers, LC  By: MANAGER

WW-9 (5/16)

API Number 47	_ 055	_00061	
Operator's Well 1	No.		

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Cornersto	one Mining, LLC	OP	Code		
Watershed (HUC 10) Cr		Quadrangle Crum	pler		
	more than 5,000 bbls of water to c	complete the proposed well we	ork? Yes No 🗸		
Will a pit be used? Yes	s No 🗸				
If so, please des	scribe anticipated pit waste: N/A				
Will a synthetic	nat ml.?	_			
RECEIVED ed Dispo					
Office of Oil and Gas	_ Land Application (if selected pr	rovide a completed form WW	-9-GPP)		
SEP 2 7 2019	_ Underground Injection (UIC P			)	
OLI 2 1 2013	Reuse (at API NumberOff Site Disposal (Supply form	WW-9 for disposal location	)	)	
WV Department of Environmental Protection	Other (Explain	_			
			Ade		
Will closed loop system	be used? If so, describe: One tar	nk for fresh water, one tank	for returns		
Drilling medium anticipa	ated for this well (vertical and hor	izontal)? Air, freshwater, oil	based, etc. freshwater		
-If oil based, wh	nat type? Synthetic, petroleum, et	c			
Additives to be used in d	Irilling medium?None			a_ a(	
Drill cuttings disposal me	ethod? Leave in pit, landfill, remo	oved offsite, etc. Fluids will b	e placed into thickening pond	MUST BE A	
-If left in pit and	d plan to solidify what medium wi	ill be used? (cement, lime, sa	( wv 0065005) awdust)	FOIL PURCE E	
-Landfill or offs	site name/permit number? WVDE	P SMA - O-0136-83		>mu	
Permittee shall provide written notice to the Office of Oil and Gas 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 POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Cas 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/orother 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 there are significant penalties for submitting false information, including the possibility of fine or imprisonment.  Company Official Signature  Company Official Title Land Agent  Subscribed and sworn before me this 123'd day of 5 cp t mber , 2019					
My commission expires_	February 09, 200	Ll	M. Pri	OFFICIAL SEAL Notary Public tate of West Virginia Jeremy Beheter et Resources, I.I.C PO Box 5064 inceton, WV 24740 fon Expires February 09, 2021	

47	-05	55-	000	61	7

Operator's Well No.\_\_\_\_\_

Proposed Revegetation Treatment: Acres Disturbed 0.5	Preveg etation pH 5.0
LimeTons/acre or to correct to	o pH 6.0
Fertilizer type	
Fertilizer amount 450	lbs/acre
Mulch .75	ons/acre
	Seed Mixtures
Temporary	Permanent
Seed Type lbs/acre Orchard Grass 20 lbs/ac.	Alsike Clover 3 lbs./ac
Weeping Lovegrass 3 lbs/ac	Annual Rye Grass 8 lbs/ac
Medium Red Clover 10 lbs/ac	
provided). If water from the pit will be land applied, provided	pplication (unless engineered plans including this info have been de water volume, include dimensions (L, W, D) of the pit, and dimensions (E, W, D) of the pit
Maps(s) of road, location, pit and proposed area for land ap	pplication (unless engineered plans including this info have been de water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W, D) of the pit
Maps(s) of road, location, pit and proposed area for land approvided). If water from the pit will be land applied, provided, W), and area in acres, of the land application area.  Photocopied section of involved 7.5' topographic sheet.	de water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W, D) of
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NIA

WW-9- GPP Rev. 5/16

RECEIVED

Operator's Well No.\_\_\_

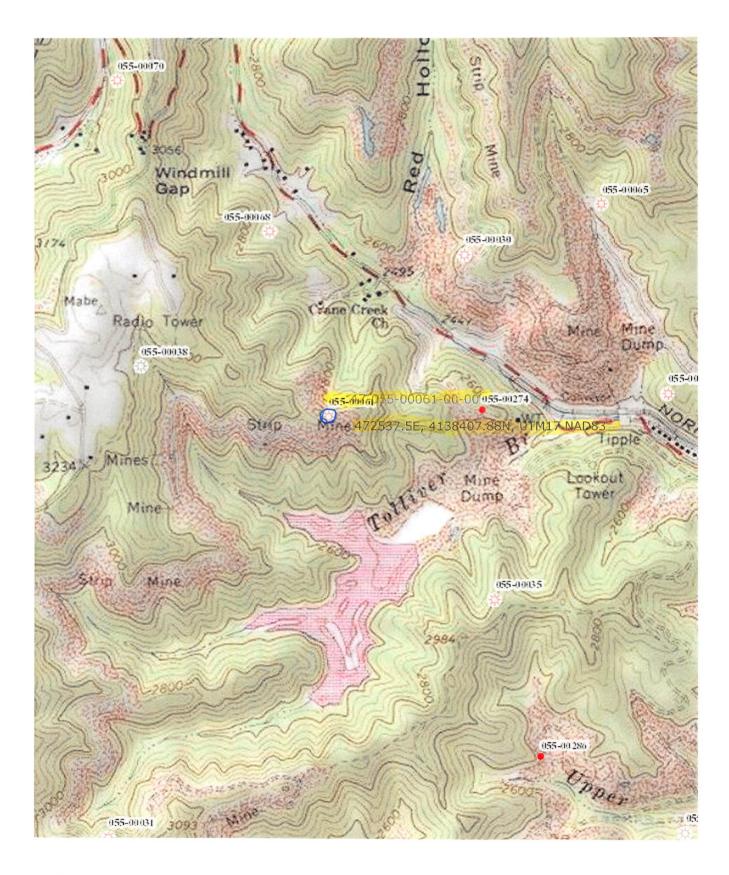
Office of Oil and Gas

#### STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

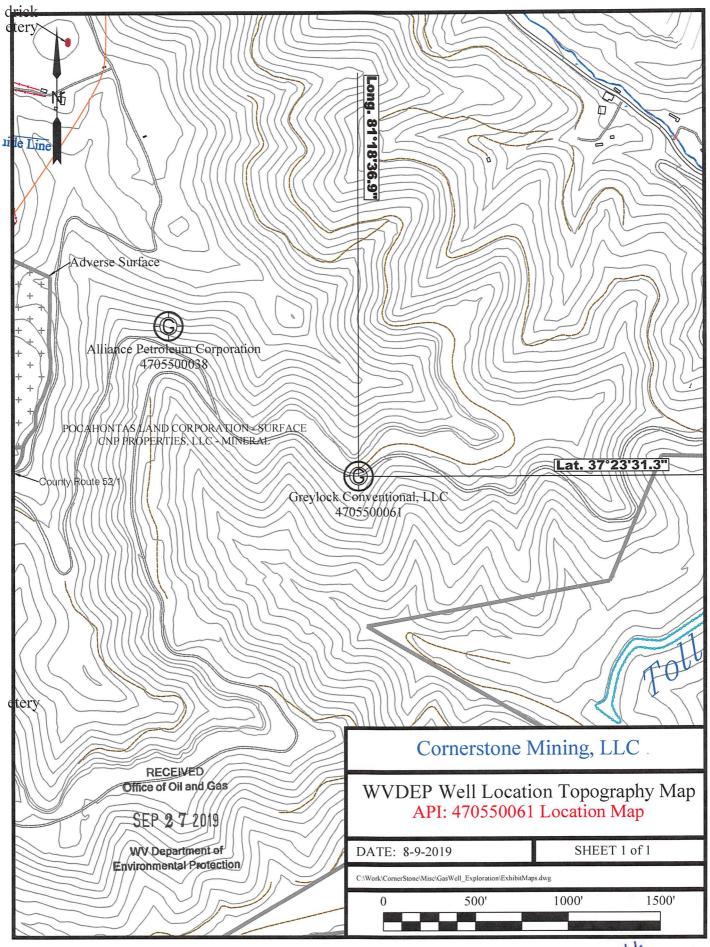
	SEP 2 7 2019	OFFICE OF OIL AND GAS	
Ор	WV Department of perattory Name:	GROUNDWATER PROTECTION PLAN	
Watershed (HUC 10): Quad:			
aı	rm Name:		
Ι.	List the procedures used for the treating groundwater.	ment and discharge of fluids. Include a list of all operations that could contaminate the	
2.	Describe procedures and equipment u	sed to protect groundwater quality from the list of potential contaminant sources above.	
3.	List the closest water body, distance discharge area.	e to closest water body, and distance from closest Well Head Protection Area to the	
4. ┌─	Summarize all activities at your facilit	ty that are already regulated for groundwater protection.	

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

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	<b>x</b>		
6. Provide a statement that no w	aste material will be used for deic	ing or fill material on the property.	
Cornerstone will not use any was	te materials generated from the p	lugging of well for deicing or fill materials on	the property.
	otection instruction and training revent groundwater contamination	to be provided to the employees. Job proc	edures shall
Provide provisions and frequence	ency for inspections of all GPP ele	ements and equipment.	
		RECEIVED	
Signature: The M	<i>ly</i>	Office of Oil and Gas	
Signature: 7 1 3 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5		SEP 2 7 2019  WV Department of	
		Environmental Protection	n



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

#### WELL LOCATION FORM: GPS

	CATTON TORM. GI	D			
<sub>API:</sub> 4705500061	WELL NO.:	D-13			
API: 4705500061 WELL NO.: D-13 FARM NAME: Pocahontas Land Corp					
RESPONSIBLE PARTY NAME:	Cornerstone Minir	ng, LLC			
COUNTY: Mercer	DISTRICT: R	ock			
COUNTY: Mercer  QUADRANGLE: Crumpler (	Quad				
SURFACE OWNER: Pocaho	ntas Land Corp				
ROYALTY OWNER: Pardee					
UTM GPS NORTHING: 41384	07.880				
UTM GPS NORTHING: 41384 UTM GPS EASTING: 472537	.507 GPS ELEVA	<sub>TION:</sub> ±2910			
height above mean sea lev  2. Accuracy to Datum – 3.05  3. Data Collection Method: Survey grade GPS NA: Post Pro  Real-Tim  Mapping Grade GPS X: Post	ra plugging permit or assigned swill not accept GPS coordin.  17 North, Coordinate Units: rel (MSL) – meters.  meters  cessed Differential	API number on the ates that do not meet meters, Altitude:  RECEWED  Office of Oil and Gas			
4. 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.					
Di B./	Land Agent	08/26/2019			
Signature	Title	Date			