

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-4 47-055-00070-00-00

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: D-4

Farm Name: POCA LAND CORP.

U.S. WELL NUMBER: 47-055-00070-00-00

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.

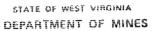
47-	055 - 00070P
1) Date August 26	, 2019
2)Operator's	
Well No. 494521673	
3) API Well No. 47	- 055 - 00070

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

APPLICATION FOR A PERM	IT TO PLUG AND ABANDON
4) Well Type: Oil/ Gas $\frac{X}{}$ / Liquid (If "Gas, Production $\frac{X}{}$ or Und	injection/ Waste disposal/ erground storage) Deep/ ShallowX
5) Location: Elevation 2825	Watershed Crane Creek
District Rock	County Mercer Quadrangle Crumpler
6) Well Operator Cornerstone Mining, LLC Address Frinceton, WV 24740	7) Designated Agent Derrick Kegley Address 150 Courthouse Rd, Suite 302 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
plug up to 2,962'. Set cement plug fr (100' below 8-5/8" casing). Set ceme	bond log across 8-5/8" casing. Set get to 100' above casing cut. Set gel om 2,962' to 2,62'. Set gel plug up to ent plug from 850' to 650'. If ng (based upon bond log). Set cement
Notification must be given to the district oi work can commence.	l and gas inspector 24 hours before preceives d Office of Oil and Gas
	OCT 3 1 2019
Work order approved by inspector GARY K	vv v Department of
WY THONE	Environmental Protection

~ 100 Max





Oil and Gas Division

WELL RECORD

Quadra	ngle.	Crumpler
Permit	No.	<u>Mer-70</u>

Rotary_X	Oil
Cable	Gas_X
Recycling	Comb.
Water Flood	Storage
Disposal	(Kind)

	, , , , , , , , , , , , , , , , , , , ,			The same with the
Company Texas International Petroleum Address Charleston, West Virginia Farm Pocahontas Land Acres 660 Farm Pocahontas Land Creak	Corpasing and Tubing -	Used in Drilling	Loft in Well	Cement fill up Cu. ft. (Sks.)
Well No. D-4 Elev 2862. 69° Well No. Rock County Mercer The start is owned in fee by	Size 20-16 Cond. 16" 13-10"	24"	24"	Conductor
Pocahontas Land Corporation Address Bluefield, West Virginia Mineral rights are owned by Pocahontas Land Corp. Address Bluefield, WV Drilling Commenced 1/4/78 Drilling Completed Initial open flow N/M cu. ft. bbls.	8 5/8 7 5 1/2 4 1/2 3 1 2 Liners Used	751° 4831°	751'	Cement to sur face w/315 sacks. Cemented w/10 sacks.
Final production 660M cu. ft. per day bbls. Well open 6 hrs. before test 850 RP. Well treatment details: Spotted 500 gallons 15% HCT, Perform with 2000 PSI. Fraced with 80 sand and 55,000# 20/40 sand. AIP		11ed wate	p <u>r. 21 (</u> er. 15.	
Coal was encountered at 37°, 97, 485° Fresh water 41° Feet Producing Sand Weir	Feet 36", 36", Salt	60" Inch Water th 4704		Feet

Formation Cold	or Hard or So	ft Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Red Clay Sand Coal Sand Sand Sand Sand Sand Sand Sand Sand		0 15 37 40 47 82 97 100 186 186 485 563 7738 990 1015 1064 1096 1106 1429 1570	15 37 40 47 82 97 100 160 186 361 485 490 563 770 938 950 990 1015 1064 1096 1106 1429 1570 1602	1" Stream of	water @ 41'.

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A . Formation Color	Hard or Soft	Top Feet	Bottom Fæt	Oil, Gas or Water	Remarks
Sand Avis Lime Shale Sand & Shale Red Rock Shale Sandy Shale Sand Red Rock & Sha Sand Shale & Red Ro Sand Shale & Shale Sand Shale Sand Shale Maxton Sand Shale Lime Shale Lime Shale Big Lime Shale Weir Sand Shale	ıle	1602 1762 1801 1837 1877 1945 2218 2315 2424 2464 2576 2670 3052 2670 3052 270 3052 3350 34421 4654 4705	1762 1801 1837 1877 1945 2218 2319 2424 2434 2434 2434 2570 26070 27217 33058 335351 44654 47060 4860	T.D.	
					. •
112					

APPROVED Texas International Petroleumes

Division Manager

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 -

00070

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

4)	Surface Own	er(s) to be served: \	5) (a) Coal Operator	
٠,	(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 Owr	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
	•			
T(THE PER	RSONS NAMED ABOVE	: You should have recei	ved this Form and the following documents:
	well it	s and the plugging work order; and		ets out the parties involved in the work and describes the
	(2) The pl	at (surveyor's map) showing the well	location on Form WW-6.	
		ou received these documents is that you h u are not required to take any action at all.	ave rights regarding the applica	tion which are summarized in the instructions on the reverses side.
	accompanyir	ng documents for a permit to plug and aban	don a well with the Chief of the	perator proposes to file or has filed this Notice and Application and Office of Oil and Gas, West Virginia Department of Environmental n and depicted on the attached Form WW-6. Copies of this Notice,

Well Operator Cornerstone Mining, LLC Derrick Kegley By: Land Agent Its:

150 Courthouse Road, Suite 302 Address

Princeton, WV 24740

304.320.5576 Telephone

Subscribed and sworn before me this

certain circumstances) on or before the day of mailing or delivery to the Chief.

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

Notary Public
State of West Virginia Jeremy Behe Met Resources, LLC Princeton, WV 24740

OFFICIAL SEAL

My Commission Expires

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 depprivacyoffier@wv.gov.

WW-4B

RECEIVED
Office of Oil and Gas

SEP 2 7 2019

WV Department of Environmental Protection

API No.	4705500070
Farm Name	
Well No.	D-4
Well No.	D-4

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.

XXIATXIED

	WAIVER
has examined this proposed plugging work order	wner/ lessee/ of the coal under this well location. The undersigned has no objection to the work proposed to be or has complied with all applicable requirements of the West
Date:	By: Muhand Turnettes, yc
	Its manager

WW-9 (5/16)

API Number 47	_ 055	_00070	
Operator's Well	No.		

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Cornerstone Mining, LLC	OP Code
Watershed (HUC 10) Crane Creek	Quadrangle Crumpler
Do you anticipate using more than 5,000 bbls of water	
Will a pit be used? Yes ☐ No ✓	
If so, please describe anticipated pit waste:	N/A
Will a synthetic liner be used in the pit? Yes	No If so, what ml.?
RECEWED Sed Disposal Method For Treated Pit W	astes:
	d provide a completed form WW-9-GPP)
	C Permit Number)
WV Department of Off Site Disposal (Supply for Other (Explain)	form WW-9 for disposal location)
Will closed loop system be used? If so, describe: One	tank for fresh water, one tank for returns
	horizontal)? Air, freshwater, oil based, etc. freshwater
	n, etc.
Additives to be used in drilling medium? None	, 666
	removed offsite, etc. Fluids will be placed into thickening pond wv 0065005
	will be used? (cement, lime, sawdust)
-Landfill or offsite name/permit number? WV	
Permittee shall provide written notice to the Office of Owest Virginia solid waste facility. The notice shall be put where it was properly disposed.	Oil and Gas of any load of drill cuttings or associated waste rejected at any provided within 24 hours of rejection and the permittee shall also disclose
on April 1, 2016, by the Office of Oil and Gas of the provisions of the permit are enforceable by law. Violat or regulation can lead to enforcement action. I certify under penalty of law that I have penapplication form and all attachments thereto and that, be the information, I believe that the information is true submitting false information, including the possibility of Company Official Signature Company Official (Typed Name) Derrick Kegley Company Official Title Land Agent	ms and conditions of the GENERAL WATER POLLUTION PERMIT issued West Virginia Department of Environmental Protection. I understand that the ions of any term or condition of the general permit and/or other applicable law ersonally examined and am familiar with the information submitted on this based on my inquiry of those individuals immediately responsible for obtaining accurate, and complete. I am aware that there are significant penalties for of fine or imprisonment.
Subscribed and sworn before me this 23°c of the subscribed and sworn before me	Notary Public Notary Public State of West Virginie Joremy Beholer Met Resources, LLC PO Box 5064 Princeton, WV 24740 My Commission Expires February 09, 2021

· · · · · · · · · · · · · · · · · · ·	Wall No		
Jperator's	Well No		
			_

	Preveg etation pH 5.0
Lime 1 Tons/acre or to correct to	_{pH} 6.0
Fertilizer type	
Fertilizer amount 450	_lbs/acre
Mulch .75	ons/acre
<u> </u>	Seed Mixtures
Temporary	Permanent
Seed Type lbs/acre	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	
(L, W), and area in acres, of the land application area. Photocopied section of involved 7.5' topographic sheet.	
Photocopied section of involved 7.5' topographic sheet. Plan Approved by:	
Photocopied section of involved 7.5' topographic sheet.	2.0
Photocopied section of involved 7.5' topographic sheet. Plan Approved by:	2.0
Photocopied section of involved 7.5' topographic sheet. Plan Approved by:	RECEIVED
Photocopied section of involved 7.5' topographic sheet. Plan Approved by:	RECEIVED Office of Oil and Gas

WW-9- GPP Rev. 5/16

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

WV Department of Environmental Protection

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

GROUNDWATER PROTECTION PLAN

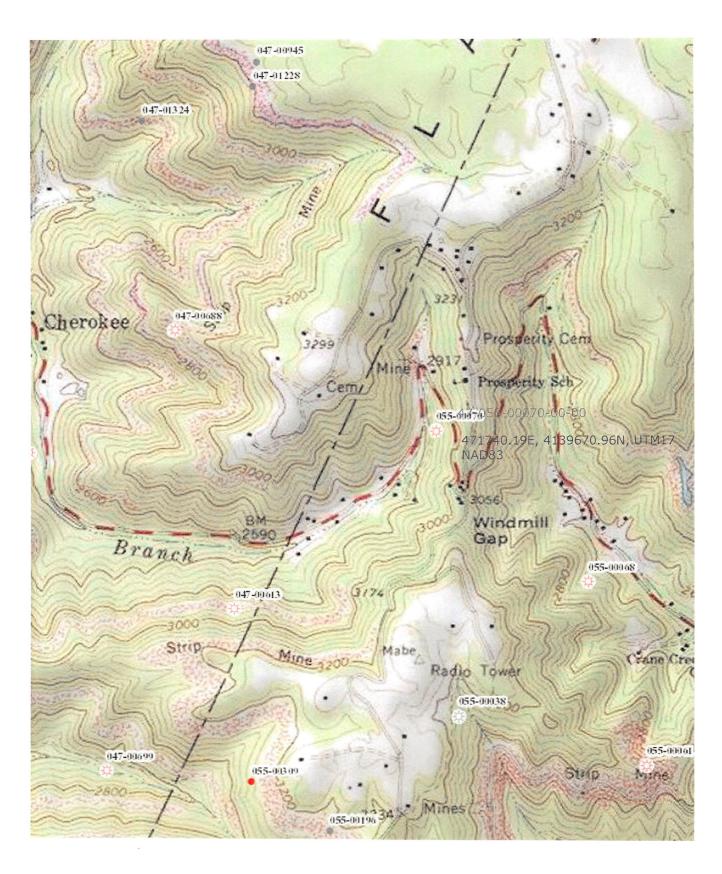
Op	perator Name:		
W	atershed (HUC 10):	Quad:	
Fa	ırm Name:		
1.	List the procedures used for the treatment and disgroundwater.	ischarge of fluids. Include a list of all opera	tions that could contaminate the
L 2.	Describe procedures and equipment used to prote	ect groundwater quality from the list of poter	ntial contaminant sources above
3.	List the closest water body, distance to closest discharge area.	water body, and distance from closest We	ell Head Protection Area to the
4.	Summarize all activities at your facility that are a	already regulated for groundwater protection	1.
			RECEIVED
			Office of Oil and Gas
5.	Discuss any existing groundwater quality data for	or your facility or an adjacent property.	SEP 2 7 2019

WW-9- GPF
Rev. 5/16

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

6.	Provide a statement that no waste material will be used for deicing or fill material on the property.
	Cornerstone will not use any waste materials generated from the plugging of well for deicing or fill materials on the property.
7.	Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall provide direction on how to prevent groundwater contamination.
Γ	
L 8.	Provide provisions and frequency for inspections of all GPP elements and equipment.
Г	
S	Signature: RECEIVED Office of Oil and Gas
Γ	Date: 9-23-19 SEP 27 2019

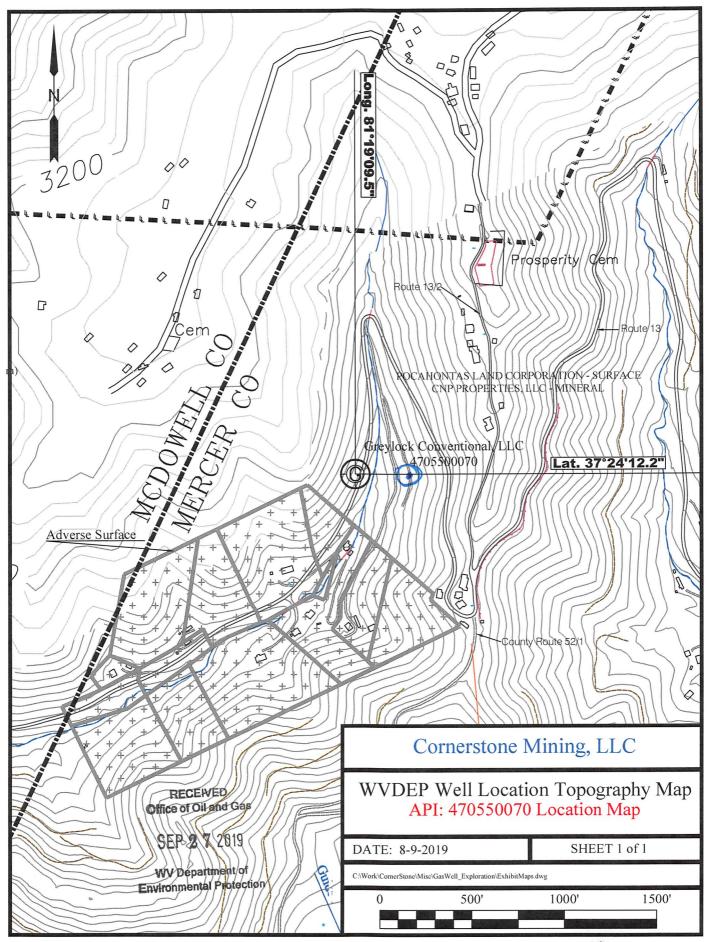
WV Department of Environmental Protection



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WW-7 8-30-06



West Virginia Department of Environmental Protection Office of Oil and Gas

WELL LO	CATION FORM: GP	S	
_{API} :4705500070	WELL NO.:	D-4	
API: 4705500070 WELL NO.: D-4 FARM NAME: Pocahontas Land Corp			
RESPONSIBLE PARTY NAME: Cornerstone Mining, LLC			
COUNTY: Mercer	DISTRICT: RO	ock	
OUADRANGLE: Crumpler	Quad		
SURFACE OWNER: Pocaho	ntas Land Corp		
SURFACE OWNER: Pocahontas Land Corp ROYALTY OWNER: Pardee Minerals			
UTM GPS NORTHING: 41396	670.969		
UTM GPS NORTHING: 41396 UTM GPS EASTING: 471740	0.197 GPS ELEVA	_{TION:} ±2825	
height above mean sea le 2. Accuracy to Datum – 3.0 3. Data Collection Method: Survey grade GPS NA : Post Pr Real-T Mapping Grade GPS X : Post Rea	or a plugging permit or assigned as will not accept GPS coordinate: 17 North, Coordinate Units: revel (MSL) – meters. 5 meters 18 meters 19 meters 19 meters 10 meters 10 meters 10 meters 10 meters 10 meters 11 meters 12 meters 13 meters 14 meters 14 meters 15 meters 16 meters 17 meters 18	API number on the ates that do not meet meters, Altitude: RECEIVED Office of Oil and Gas SEP 2 7 2019 WV Department of Environmental Protection	
4. Letter size copy of the t I the undersigned, hereby certify this belief and shows all the information prescribed by the Office of Oil and O	required by law and the regular	y knowledge and	
Ohi My	Land Agent	08/26/2019	
Signature	Title	Date	