



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.

James A. Martin
Chief

Operator's Well Number: D-13
Farm Name: POCAHONTAS LAND CORP.
U.S. WELL NUMBER: 47-055-00061-00-00
Vertical Plugging
Date Issued: 11/1/2019

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.

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 PERMIT TO PLUG AND ABANDON

4) Well Type: Oil ____/ Gas X/ Liquid injection ____/ Waste disposal ____/
(If "Gas, Production X or Underground storage ____) Deep ____/ Shallow X

5) Location: Elevation 2910 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 Name Gary Kennedy
Address 66 Old Church Lane
Pipestem, WV 25979
9) Plugging Contractor Name Keystone Wireline Inc.
Address 380 Southpointe Blvd, Suite 300
Canonsburg, PA 15317

10) Work Order: The work order for the manner of plugging this well is as follows:
Check tubing/casing pressures. Load hole with 6% gelled water. Run in hole with wireline and set CIBP at 4,882' (5' above top perf). Cut 4-1/2" casing at top of cement. Pull casing out of hole. Run cement bond log across 8-5/8" casing. Set cement plug from top of CIBP to 100' above casing cut. Set gel plug up to 3,016'. Set cement plug from 3,016' to 2,816'. Set gel plug up to 849' (100' below 8-5/8" casing). Set cement plug from 849' to 649'. If possible, cut and remove 8-5/8" casing (based upon bond log). Set gel plug from 649' to 483'. Set cement plug from 483' to surface. Erect monument.

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

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Office of Oil and Gas

OCT 31 2019

Work order approved by inspector GARY KENNEDY
BY PHONE.

Date _____
WV Department of
Environmental Protection

OG-10
Rev. - 9-71



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division

WELL RECORD

Quadrangle Crumpler, W.Va. 7 1/2'
Permit No. MER - 61

Rotary X Oil _____
Cable _____ Gas X _____
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind) _____

Company <u>Texas International Petroleum Corp.</u>	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Address <u>Charleston, West Virginia</u>				
Farm <u>Pocahontas Land Corp Acres 239.90</u>				
Location (waters) <u>West Fork of Crane Creek</u>				
Well No. <u>D-13</u> Elev. <u>2916.36'</u>	20-16			Conductor
District <u>Rock</u> County <u>Mercer</u>	Cond. 16"	21'	21'	
The surface of tract is owned in fee by <u>Pocahontas Land Corporation</u>	13-10"			Cemented w/505 sacks, Cement circulated
Address <u>Bluefield, West Virginia</u>	9 5/8	749'	749'	
Mineral rights are owned by <u>Pocahontas Land Corp.</u> Address <u>Bluefield, W.Va.</u>	7			Cemented w/100 sacks.
Drilling Commenced <u>8-14-77</u>	5 1/2	5017'	5017'	
Drilling Completed <u>8-25-77</u>	4 1/2			
Initial open flow _____ cu. ft. _____ bbls.	3			
Final production <u>329M</u> cu. ft. per day _____ bbls.	2			
Well open <u>6</u> hrs. before test <u>720</u> RP.	Liners Used			

Well treatment details: Attach copy of cementing record.
Ran gamma ray/collar log. Spotted 500 gallons 15% HCl. Perofrated 4891' - 4906', 2 SPF, 31 shots. Fraced w/830 barrels gelled water, 15,000# 80/100 sand, 55,000# 20/40 sand. BDP - 2000 PSI, AIP 1900 PSI, AIR 47 BPM, ISIP vacuum.

Coal was encountered at 139' - 141', 383' - 387', 505' - 507', 541' - 545'
 Fresh water 30' Feet Salt Water _____ Feet
 Producing Sand Weir Depth 4887' - 4925'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand			19	139	1/2" Water @ 30'	
Coal			139	141		
Sand			141	383		
Coal			383	387		
Sand & Shale			387	400		
Sand			400	505		
Coal			505	507		
Sand & Shale			507	510		
Sand			510	541		
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		

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil Gas or Water	Remarks
Sandy Shale			4838	4887		
Weir Sand			4887	4925		
Shale			4925	5051	T.D.	

Date November 9, 1977

APPROVED **Texas International**

Division Manager

47-055-00061P

WW-4A
Revised 6-07

RECEIVED
Office of Oil and Gas

SEP 27 2019

WV Department of
Environmental Protection

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

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF 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 Owner(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 Lessee 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 PERSONS NAMED ABOVE: You should have received this Form and the following documents:

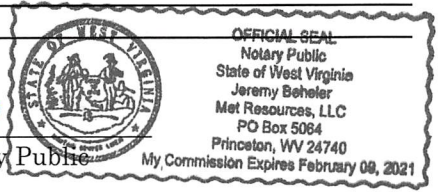
- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

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: Cornerstone Mining, LLC
 By: Derrick Kegley *[Signature]*
 Its: Land Agent
 Address: 150 Courthouse Road, Suite 302
 Princeton, WV 24740
 Telephone: 304.320.5576

Subscribed and sworn before me this 4th day of September 2019
Jeremy Beheler Notary Public
 My Commission Expires February 09, 2021



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 depprivacyofficer@wv.gov.

47-055-00061 P

WW-4B

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

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Office of Oil and Gas

SEP 27 2019

WV Department of
Environmental Protection

**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 than 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

The undersigned coal operator ____ / owner ____ / lessee ____ / of the coal under this well location has examined this proposed plugging work order. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: 9/20/19

By: 
Its MANAGER

47-055-00061P

WW-9
(5/16)

API Number 47 - 055 - 00061
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 to complete the proposed well work? Yes No
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.? _____

Proposed Disposal Method For Treated Pit Wastes:

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Office of Oil and Gas _____ Land Application (if selected provide a completed form WW-9-GPP)
SEP 27 2019 _____ Underground Injection (UIC Permit Number _____)
_____ Reuse (at API Number _____)
WV Department of Environmental Protection _____ Off Site Disposal (Supply form WW-9 for disposal location)
_____ Other (Explain _____)

Will closed loop system be used? If so, describe: One tank for fresh water, one tank for returns

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. freshwater

-If oil based, what type? Synthetic, petroleum, etc. _____

Additives to be used in drilling medium? None

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Fluids will be placed into thickening pond (WV 0065005)

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) _____

-Landfill or offsite name/permit number? WVDEP SMA - O-0136-83

MUST BE A OK
PERMITTED FACILITY
FOR WELL EFFLUENT
J.W.H.

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.

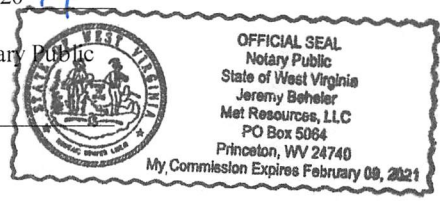
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations 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 there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature [Signature]
Company Official (Typed Name) Derrick Kegley
Company Official Title Land Agent

Subscribed and sworn before me this 23rd day of September, 20 19
[Signature] Notary Public

My commission expires February 09, 2021



Proposed Revegetation Treatment: Acres Disturbed 0.5 Prevegetation pH 5.0

Lime 1 Tons/acre or to correct to pH 6.0

Fertilizer type 16-27-14

Fertilizer amount 450 lbs/acre

Mulch .75 Tons/acre

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

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: *Steve Kennedy*

Comments: _____

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SEP 27 2019

WV Department of
Environmental Protection

Title: *Inspector*

Date: *9/26/19*

Field Reviewed? (*x*) Yes

() No

N/A

WW-9- GPP
Rev. 5/16

Page 1 of 2

API Number 47 - _____ - _____
Operator's Well No. _____

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

WV Department of
Environmental Protection

Operator Name: _____

Watershed (HUC 10): _____ Quad: _____

Farm Name: _____

1. List the procedures used for the treatment and discharge of fluids. Include a list of all operations that could contaminate the groundwater.

2. Describe procedures and equipment used to protect groundwater quality from the list of potential contaminant sources above.

3. List the closest water body, distance to closest water body, and distance from closest Well Head Protection Area to the discharge area.

4. Summarize all activities at your facility that are already regulated for groundwater protection.

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

N/A

[Empty rectangular box for response]

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.

[Empty rectangular box for response]

8. Provide provisions and frequency for inspections of all GPP elements and equipment.

[Empty rectangular box for response]

Signature: [Handwritten Signature]

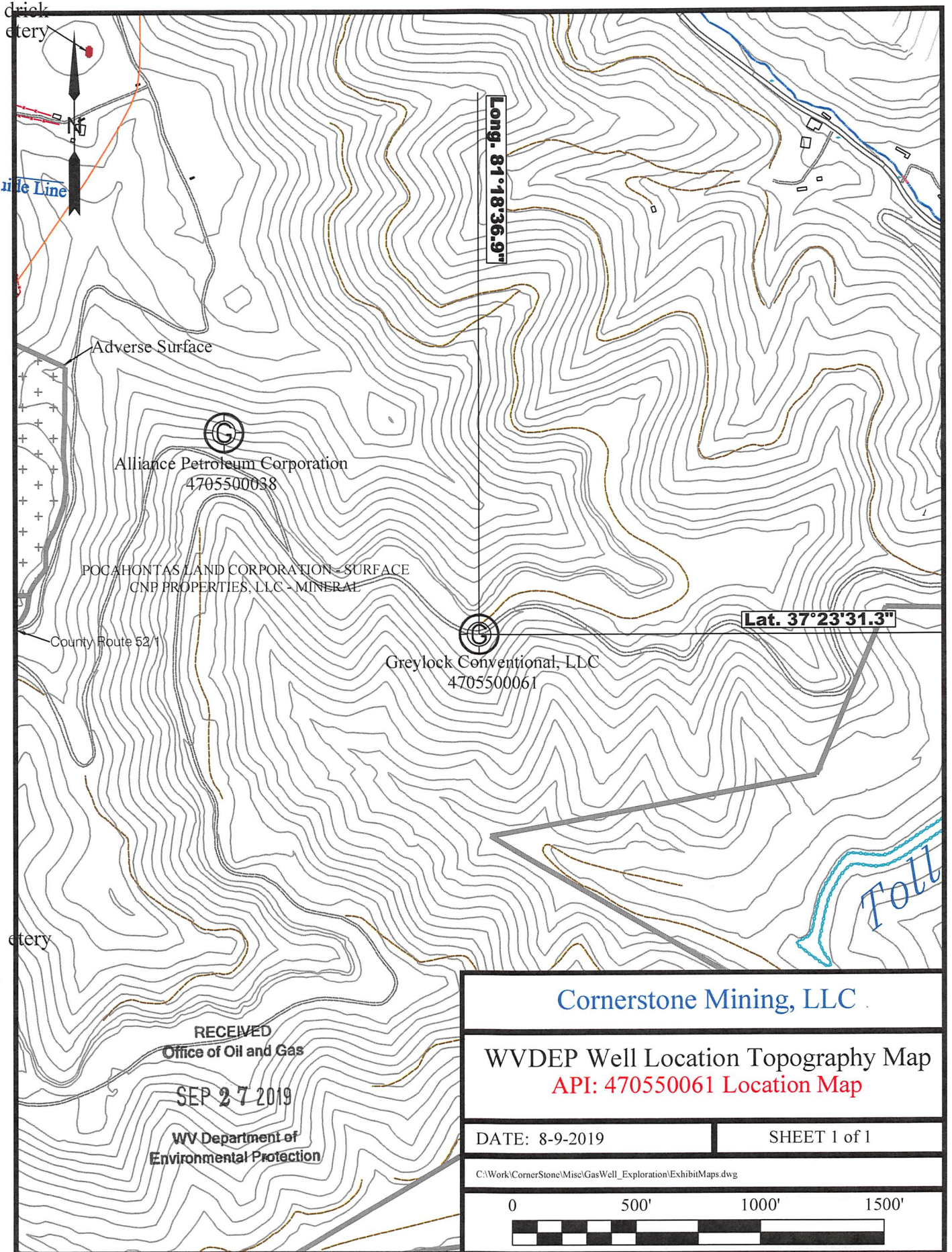
Date: 9-23-19

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SEP 27 2019

WV Department of
Environmental Protection





Alliance Petroleum Corporation
4705500088

POCAHONTAS LAND CORPORATION - SURFACE
CNP PROPERTIES, LLC - MINERAL

Greylock Conventional, LLC
4705500061

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Office of Oil and Gas
SEP 27 2019
WV Department of
Environmental Protection

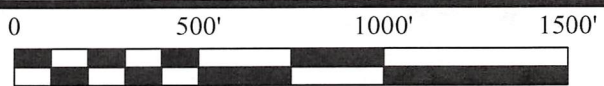
Cornerstone Mining, LLC

WVDEP Well Location Topography Map
API: 470550061 Location Map

DATE: 8-9-2019

SHEET 1 of 1

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Handwritten signature

