



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, September 6, 2019
WELL WORK PLUGGING PERMIT
Vertical Plugging

CORE APPALACHIA OPERATING LLC
414 SUMMERS STREET
CHARLESTON, WV 25301

Re: Permit approval for 823188
47-043-02950-00-00

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.

A handwritten signature in blue ink, appearing to read 'James A. Martin', is positioned above the printed name.

James A. Martin
Chief

Operator's Well Number: 823188
Farm Name: MELVE & SENA LOWE
U.S. WELL NUMBER: 47-043-02950-00-00
Vertical Plugging
Date Issued: 9/6/2019

Promoting a healthy environment.

4

47-043-02950 P

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.
4. This well is under a consent order and must be plugged under the terms of that agreement.

WW-4B
Rev. 2/01

1) Date August 21, 2019
2) Operator's
Well No. 823188
3) API Well No. 47-043 - 02950

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 ___ or Underground storage ___) Deep ___ / Shallow X
- 5) Location: Elevation 359.24 meters Watershed Kiah Creek
District Harts Creek County Lincoln Quadrangle Trace
- 6) Well Operator Core Appalachia Operating, 7) Designated Agent Jessica Greathouse
Address 414 Summers Street Address 414 Summers Street
Charleston, WV 25301 Charleston, WV 25301
- 8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Jeffery L. Smith Name R & J Well Service, Inc.
Address 5349 Karen Circle, Apt # 2101 Address P.O. Box 40
Cross Lanes, WV 25313 Hueysville, KY 41640-0040
-
- 10) Work Order: The work order for the manner of plugging this well is as follows:

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

Work order approved by inspector

Date

8-22-19

PLUGGING PROCEDURE

823188

LINCOLN COUNTY, WEST VIRGINIA

API# 47-043-02950

BY: JM

DATE: 7/24/2019

Current Status**Csg Schedule**

- 9 5/8" csg @ 363' cemented to surface w/ 165 sx
- 4 1/2" csg @ 1,414' w/ packer set at 1406'
- 2 3/8" tbg @ 1422'
- TD @ 1429'

Completion

- Natural in Maxton

Fresh water @ No shows**Coal @ No shows****Gas Shows @ 1429'****Oil Shows @ No shows****Elevation 1,183'****Objective: Plug and abandon**

- 1) Prepare road and location.
- 2) MIRU service rig and support equipment.
- 3) Blow well down. Check TD.
- 4) TOOH w/ 2 3/8" tbg.
- 5) Attempt to release packer and pull 4 1/2" csg. If unsuccessful free point 4 1/2" csg. Shoot or rip csg at free point. TOOH w/ 4 1/2" csg. A 100' C1A cement plug must be set across csg cut. Any plugs below that will remain behind 4 1/2" csg must be shot or ripped at bottom of plug and then every 50' through plug
- 6) TIH w/ tbg to 1429'. Kill well as needed w/ 6% bentonite gel. Pump 100' C1A plug from 1429' to 1329'
- 7) TOOH w/ tbg to 1329'. Pump 6% bentonite gel from 1329'- 1183'
- 8) TOOH w/ tbg to 1183'. Pump 100' C1A cement plug from 1183' to 1083'
- 9) TOOH w/ tbg to 1083'. Pump 6% bentonite gel from 1083'- 413'
- 10) TOOH w/ tbg to 413'. Pump 100' C1A cement plug from 413' to 313'
- 11) TOOH w/ tbg to 313'. Pump 6% bentonite gel from 313'- 100'
- 12) TOOH w/ tbg to 100'. Pump 100' C1A cement from 100' to Surface.
- 13) Pull work string and top off w/cement.
- 14) Erect permanent monument (30" minimum height and 6" minimum diameter pipe) with API # (1/2" height numbering) and reclaim.

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WV Department of
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WR-35

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WV Division of
Environmental Protection

JAN 11 1998

09-May-97
API # 47- 43-02950

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas
Permitting
Office of Oil & Gas

Well Operator's Report of Well Work

Farm name: PYXIS RESOURCES CO. Operator Well No.: 23188

LOCATION: Elevation: 1,183.15 Quadrangle: TRACE

District: HARTS CREEK County: LINCOLN
Latitude: 3580 Feet South of 38 Deg. 0 Min. 0 Sec.
Longitude 830 Feet West of 82 Deg. 12 Min. 30 Sec.

Company: COLUMBIA NATURAL RESOURCE
P. O. BOX 6070
CHARLESTON, WV 25362-0000

Agent: W. A. WATSON, JR.

Inspector: DAVE BELCHER
Permit Issued: 05/15/97
Well work Commenced: 11/11/97
Well work Completed: 11/20/97
Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 1,429'
Fresh water depths (ft) _____

Salt water depths (ft) 735'

Is coal being mined in area (Y/N)? Y
Coal Depths (ft): _____

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
9 5/8	363	363	165
* 4 1/2		1,414	Not Cemented

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* Ran 4 1/2" x 8 3/4" Inflatable packer @ 1406 - 1414

OPEN FLOW DATA

Producing formation Maxon Sand - Natural Pay zone depth (ft) 1,426
Gas: Initial open flow 5,800 MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 12 Hours
Static rock Pressure 350 psig (surface pressure) after 72 Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: COLUMBIA NATURAL RESOURCES, INC.
By: [Signature]
Date: 1/20/98

L
N
2957

Well Completion Data

CNR Well #: 23188
Permit #: 47-043-02950
County: Lincoln
District: Harts Creek
Prospect: Harts Creek
Field: Harts Creek South

	Top	Base
<u>Sand/Shale</u>	0	-
<u>Salt Sand</u>	-	-
<u>Maxon Sand</u>	1398	-
<u>Little Lime</u>	-	-
<u>Greenbrier Limestone</u>	-	-
<u>McCrary</u>	-	-
<u>Big Injun</u>	-	-
<u>Pocono Shale</u>	-	-
<u>Berea Sand</u>	-	-
<u>Upper Devonian</u>	-	-
<u>Lower Huron Shale</u>	-	-
<u>Olentangev Shale</u>	-	-
<u>Rhinstreet Shale</u>	-	-

	Depth	Mcf
<u>Show Gas 1</u>	1426	6000
<u>Show Gas 2</u>		
<u>Show Gas 3</u>		
<u>Show Gas 4</u>		
<u>Show Oil 1</u>		
<u>Show Oil 2</u>		
<u>Show Oil 3</u>		
<u>Show Water</u>		

Intermediate Csg
Logger TD
Formation @ TD Lower Huron

VOLUME FACTOR DATA

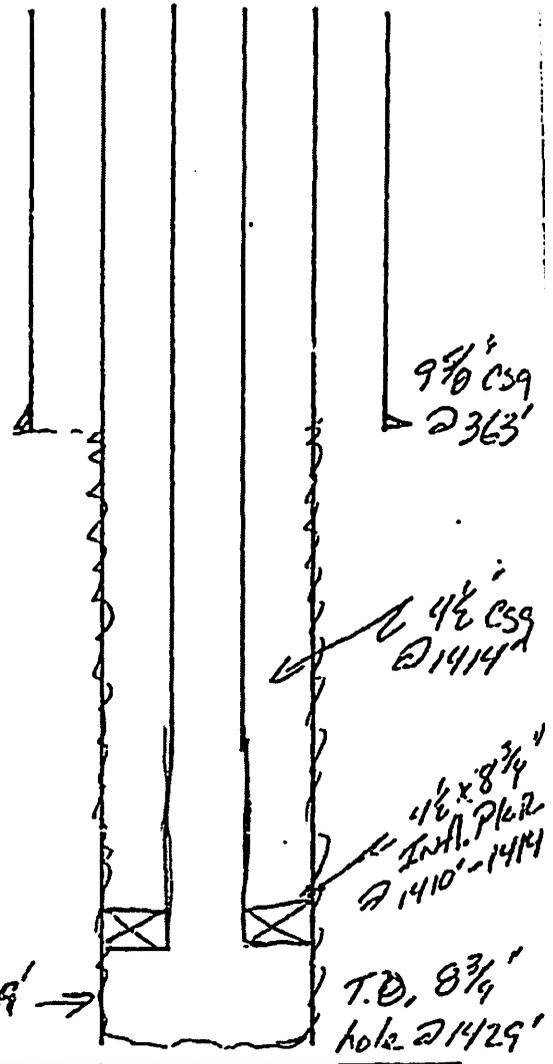
WELL NO. 23194

COMPLETED/WORKED OVER _____

TWP/DIST _____ CO. Lincoln ST. WV

OBTAINED FROM: WELL LOG SUMMARY , OTHER _____

PIPE SIZE	FEET	WEIGHT
9 5/8" 8 5/8"	<u>363</u>	<u>36</u> #
"		
4 1/2"	<u>1414</u>	<u>10.5</u> #
"		
2 3/8"		
"		
PACKER	<u>1400</u>	
BIT SIZE	<u>8 3/4"</u>	
TOTAL DEPTH	<u>1429</u>	
OPEN HOLE	<u>1406'-1429'</u>	



Open hole -
8 3/4" 1414'-1429' →

MAZON Sand: Natural - 5.8 mmph FRP - 350 psi

Set 4 1/2" CS9 w/ 1 1/2" x 8 3/4" Inletable TAMIS packer at 1410'

Open hole @ 1414' - 1429' 8 3/4" hole

LIN 2950

WW-4A
Revised 6-07

1) Date: August 21, 2019
2) Operator's Well Number
823188

3) API Well No.: 47 - 43 - 02950

**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 <u>Melva and Sena Lowe</u>	Name _____
Address <u>1803 Heartland Haul Road</u>	Address _____
<u>Harts, WV 25524</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Southern Region Industrial, Inc.</u>
_____	Address <u>Three Commercial Place</u>
_____	<u>Norfolk, Virginia 23510</u>
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Jeffery L. Smith</u>	(c) Coal Lessee with Declaration
Address <u>5349 Karen Circle, Apartment # 2101</u>	Name <u>Lexington Coal Company</u>
<u>Cross Lanes, WV 25313</u>	Address <u>P.O. Box 58370</u>
Telephone <u>681-313-6743</u>	<u>Charleston, WV 25358</u>

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	<u>Core Appalachia Operating, LLC</u>	
By:	<u>Jessica Greathouse</u>	RECEIVED
Its:	<u>Manager - Environmental, Health & Safety</u>	Office of Oil and Gas
Address	<u>414 Summers Street</u>	AUG 28 2019
	<u>Charleston, West Virginia 25301</u>	
Telephone	<u>304-353-5240</u>	WV Department of Environmental Protection

Subscribed and sworn before me this 21st day of August 2019
Phyllis A. Copley Notary Public
My Commission Expires September 16, 2023

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.

47-043-02950P

7017 1450 0002 3854 0337

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NORFOLK, VA 23510

OFFICIAL USE

Certified Mail Fee	\$3.50
Extra Services & Fees (check box, add fee as appropriate)	\$2.80
<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00
Postage	\$1.30
Total Price	\$7.60

Postmark Here: AUG 22 2019 0523

08/22/2019

To: 823188 P&A
 Southern Region Industrial, Inc.
 Street: Three Commercial Drive
 City, S: Norfolk, VA 23510

PS Fo Instructions

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CHARLESTON, WV 25358

OFFICIAL USE

Certified Mail Fee	\$3.50
Extra Services & Fees (check box, add fee as appropriate)	\$2.80
<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00
Postage	\$1.30
Total Price	\$7.60

Postmark Here: AUG 22 2019 0523

08/22/2019

To: 823188 P&A
 Lexington Coal Company
 P.O. Box 58370
 Charleston, WV 25358

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7017 1450 0002 3854 0351

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HARTS, WV 25524

OFFICIAL USE

Certified Mail Fee	\$3.50
Extra Services & Fees (check box, add fee as appropriate)	\$2.80
<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00
Postage	\$1.30
Total Price	\$7.60

Postmark Here: AUG 22 2019 0523

08/22/2019

To: 823188 P&A
 Melve & Sena Lowe
 Street: 1803 Heartland Haul Road
 City: Harts, WV 25524

PS Fo Instructions

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WV Department of
Environmental Protection

SURFACE OWNER WAIVER

Operator's Well
Number

823188

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

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WV Department of
Environmental Protection

Time Limits and methods for filing comments. 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 on 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;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one 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 these materials, and I have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERSON
ETC.

FOR EXECUTION BY A CORPORATION,

_____	Date _____	Name _____	_____
Signature		By	_____
		Its	_____
			Date _____
		Signature	Date _____

WW-4B

API No.	<u>47-043-02950 P</u>
Farm Name	<u>Pyxis Resources Co 23188</u>
Well No.	<u>823188</u>

**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.

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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: _____

By: _____

Its _____

47-043-02950 P

WW-9
(5/16)

API Number 47 - 043-02950
Operators Well Number: 823188

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Core Appalachia Operating, LLC OP Code 494518671

Watershed (HUC 10) Kiah Creek Quadrangle Trace

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: _____

Will a synthetic liner be used in the pit? Yes No If so, what ml.? 20

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection (UIC Permit Number _____)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain Any fluid will be hauled to a Core tank battery and disposed of properly)

Will closed loop system be used? If so, describe: _____

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

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

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Additives to be used in drilling medium? _____

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Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. _____

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

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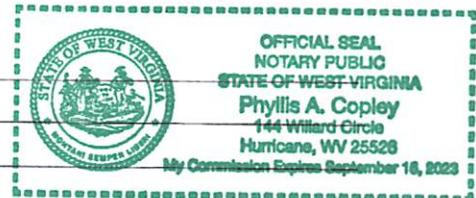
-Landfill or offsite name/permit number? _____

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) Jessica Greathouse
Company Official Title Manager - Environmental, Health & Safety



Subscribed and sworn before me this 21st day of August, 2019

Phyllis A. Copley Notary Public

My commission expires September 16, 2023

Form WW-9

Operator's Well No. 823188

Proposed Revegetation Treatment: Acres Disturbed 1 +/- Prevegetation pH _____

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20 or equivalent

Fertilizer amount _____ lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Red Fescue	40	Red Fescue	15
Alsike	5	Alsike Clover	5
Annual Rye	15		

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: Jeffrey Smith

Comments: All sediment control to be removed prior to Release

Title: Oil & Gas Inspection Date: 8-22-19

Field Reviewed? () Yes () No



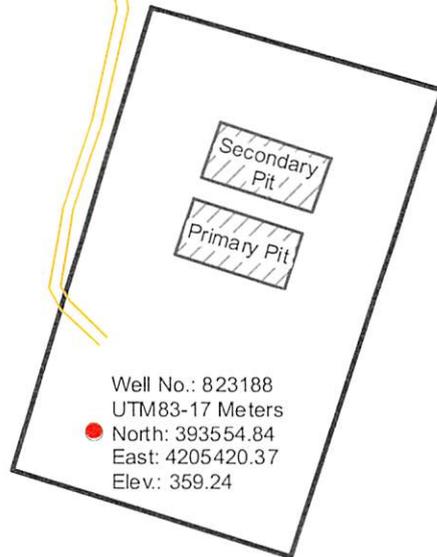
Diversified Gas & Oil
Corporation
100 Diversified Way
Pikeville KY, 41051

823188

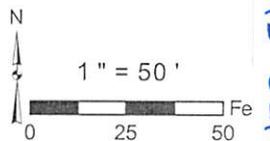
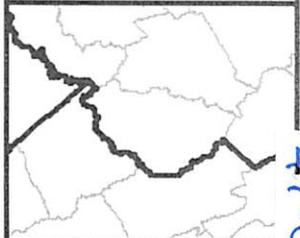
Plugging Map

Legend

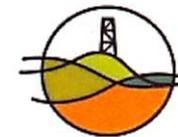
-  Well
-  Sediment Control
-  Access Road
-  Pits
-  Pad
-  Public Roads



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AUG 28 2019
WV Department of
Environmental Protection



47-043-02950P



Diversified Gas & Oil
Corporation
100 Diversified Way
Pikeville KY, 41051

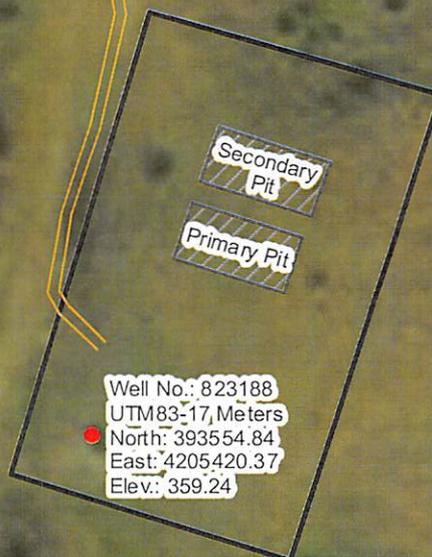
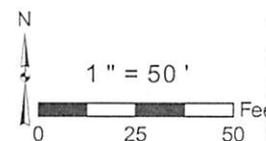
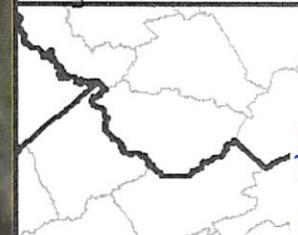
823188

Plugging Map

Legend

- Well
- ✕ Sediment Control
- Access Road
-  Pits
-  Pad
- Public Roads

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Well No.: 823188
UTM83-17, Meters
North: 393554.84
East: 4205420.37
Elev.: 359.24

Sources: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

47-043-02950A



Diversified Gas & Oil Corporation
100 Diversified Way
Pikeville KY, 41051

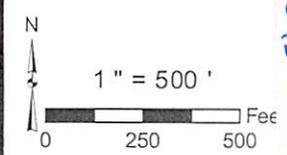
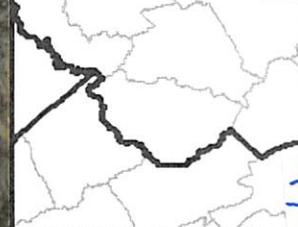
823188

Plugging Map

Legend

-  Well
-  Sediment Control
-  Access Road
-  Pits
-  Pad
-  Public Roads

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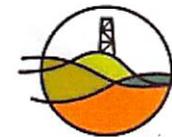


Well No.: 823188
UTM83-17 Meters
North: 393554.84
East: 4205420.37
Elev.: 359.24

JIMS BR

Sources: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

47-043-02950P



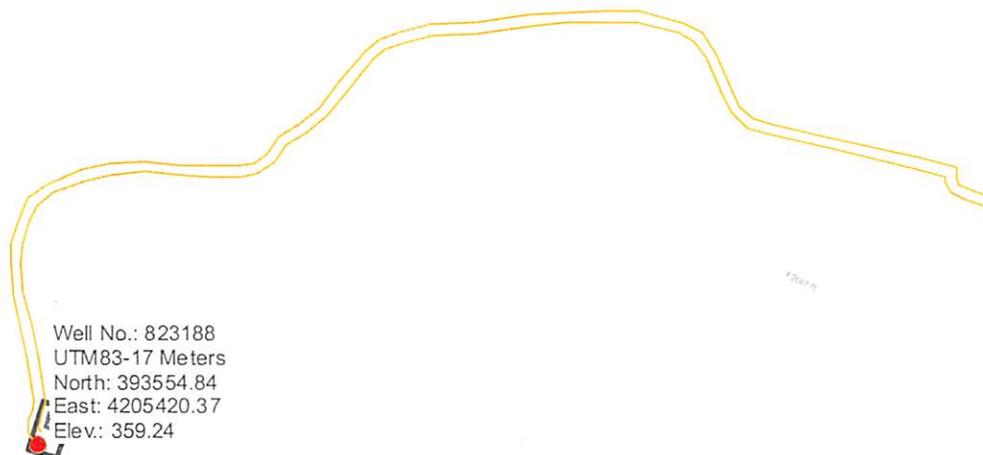
Diversified Gas & Oil
Corporation
100 Diversified Way
Pikeville KY, 41051

823188

Plugging Map

Legend

- Well
- ⊗ Sediment Control
- Access Road
- Pits
- Pad
- Public Roads

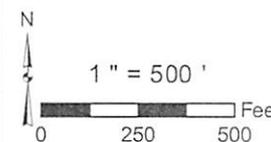
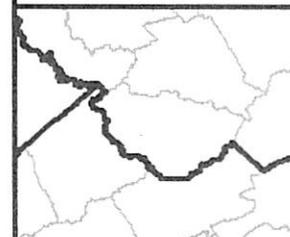


JIMS BR

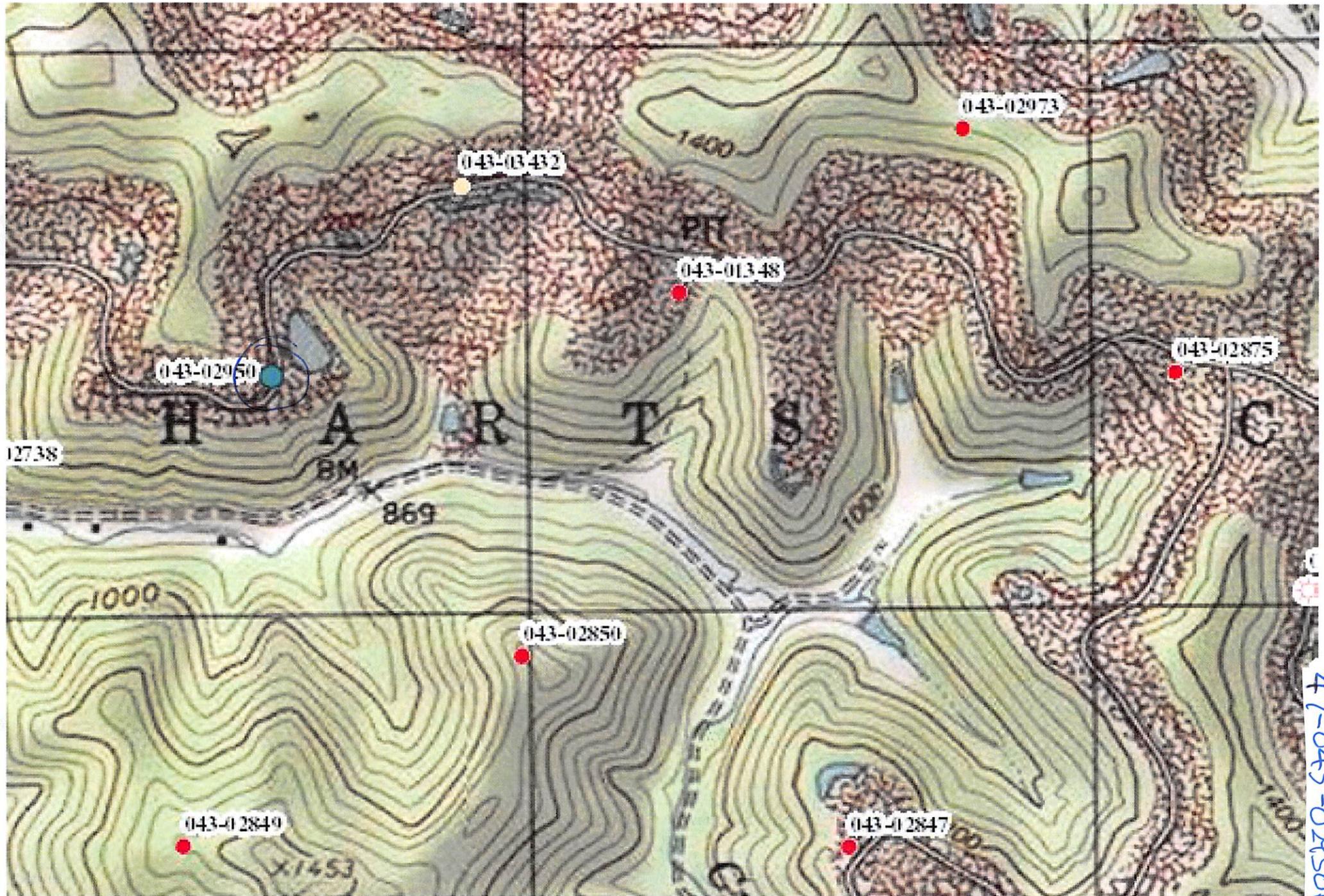
Khatt Creek

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Environmental Protection

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community



49-043-02950 P



47-043-02950P

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas
WELL LOCATION FORM: GPS

API: 47-043-02950 WELL NO.: 823188

FARM NAME: Pyxis Resources Co 23188

RESPONSIBLE PARTY NAME: Core Appalachia Operating LLC

COUNTY: Lincoln DISTRICT: Harts Creek

QUADRANGLE: Trace

SURFACE OWNER: Melve & Sena Lowe

ROYALTY OWNER: Core Appalachia Operating LLC

UTM GPS NORTHING: 393,554.84

UTM GPS EASTING: 4,205,420.37 GPS ELEVATION: 359.24 meters (1178')

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: height above mean sea level (MSL) – meters.
- Accuracy to Datum – 3.05 meters
- Data Collection Method:
Survey grade GPS ____ : Post Processed Differential ____
Real-Time Differential ____
Mapping Grade GPS X : Post Processed Differential X
Real-Time Differential ____

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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.

[Signature]
Signature

Engineer III
Title

7-24-2019
Date

WU 823188
API 47-043-02950

11/10/2016

PLUGGING PERMIT CHECKLIST

Plugging Permit

- WW-4B
- WW-4B signed by inspector
- WW-4A
- SURFACE OWNER WAIVER or PROOF THAT APPLICATION WAS SENT BY REGISTERED OR CERTIFIED MAIL
- COAL OWNER/COAL OPERATOR/COAL LESSEE WAIVERS or PROOF THAT APPLICATION WAS SENT BY REGISTERED OR CERTIFIED MAIL
- 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
- WELL RECORDS/COMPLETION REPORT
- TOPOGRAPHIC MAP OF WELL, SHOWING PIT IF PIT IS USED
- MUST HAVE VALID BOND IN OPERATOR'S NAME
- CHECK FOR \$100 IF PIT IS USED

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