



 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

Wednesday, May 1, 2019
 WELL WORK PLUGGING PERMIT
 Vertical Plugging

CORE APPALACHIA OPERATING LLC
 414 SUMMERS STREET

CHARLESTON, WV 25301

Re: Permit approval for 806182
 47-099-00482-00-00

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: 806182
 Farm Name: HENDERSON ALDRIDGE C/
 U.S. WELL NUMBER: 47-099-00482-00-00
 Vertical Plugging
 Date Issued: 5/1/2019

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

1) Date February 22, 2019
2) Operator's Well No. 806182
3) API Well No. 47-099 - 00482
05/03/2019

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 1328.23' Watershed West Fork of Twelvepole Creek
District Lincoln County Wayne Quadrangle Wilsondale

6) Well Operator Core Appalachia Operating, LLC 7) Designated Agent Jessica Greathouse
Address P.O. Box 6070 Address P.O. Box 6070
Charleston, WV 25362 Charleston, WV 25362

8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Allen Flowers Name Precision Drilling (BOSS)
Address 165 Grassy Lick Lane Address 3978 N Elmdale Road
Liberty, WV 25124 Olney, IL 62450

10) Work Order: The work order for the manner of plugging this well is as follows:

SEE ATTACHED SHEET

RECEIVED
Office of Oil and Gas

MAR 11 2019

WV Department of
Environmental Protection

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

Work order approved by inspector  Date 3-11-2019

PLUGGING PROCEDURE
806182
WAYNE COUNTY, WEST VIRGINIA
API# 47-099-00482

BY: DMC
DATE: 3/7/2019

Current Status

10" @ 211'
7" @ 1837'
5 3/16" @ 2116' Pulled
2" tbg @ 3619' w/ hookwall pkr 2" x 6 5/8" x 16" @ 2008'
Shale: Shot 2680-3635'
TD @ 3635'
Water @ No Record
Gas Shows @ 1970-1975', 3380', 3550'
Elevation 1345.55'
3/27/2013 Echometer FL @ 1201'

Objective: Plug and abandon

- 1) Prepare road and location.
- 2) PJSA. MIRU service rig and support equipment.
- 3) Blow well down. Check TD.
- 4) Attempt to pull 2" tbg and pkr. If unsuccessful, cut 2" tbg at free and pull.
- * 5) SPOT GEL TO FILL SHOT HOLE TO 2640'
Spot 100' cement plug at TD, ~ 2640 - 2540'.
- 6) TIH and tag cement plug. ADD MORE CEMENT IF NEEDED.
- 7) Spot 6% gel from 2540' - 2025'
- 8) Spot 150' cement plug from 2025' - 1875'. (Big Line)
- 9) Spot 6% gel from 1875 - 1890'.
- 10) Attempt to pull 7" csg. If unsuccessful, cut 7" at free point and pull. PLACE 100' CEMENT PLUG ACROSS CASING CUT.
- 11) Spot 100' cement plug from 1890 - 1790'.
- 12) Spot 6% gel from 1790 - 1400'.
- 13) Spot 100' cement plug from 1400 - 1300'.
- 14) Spot 6% gel from 1300 - 250'.
- 15) Attempt to pull 10" csg. If unsuccessful, shoot or rip holes @ 100'.
- 16) Spot 100' cement plug from 250 - 150'.
- 17) Spot 6% gel from 150 - 100'.
- 18) Spot 100' cement plug from 100' - Surface.

19) Pull work string and top off w/cement.

20) Erect permanent monument (30" minimum height and 6" minimum diameter pipe) with API # (1/2" height numbering) and reclaim.

WEST VIRGINIA DEPARTMENT OF MINES
OIL & GAS DIVISION
WELL RECORD

806182
47-099-00482P

Permit No. Way 482
Naugatuck Quad.
Company
Address
Farm
Location
Well No.
District
Surface
Mineral

Gas Well
CASING & TUBING

United Fuel Gas Co.
P.O. Box 1273, Charleston 25, W.Va. 10 211 211
U.F.G. Co. Min Tr. #19 A 323 04 7 1837 1837
Twelve Pole Creek 5 3/16 2116 Pld.
6182 Elev. 1345.55 2 tub. 3619

05/03/2019

Commenced
Completed
Date shot

United Fuel Gas Co. P.O. Box 1273
Charleston, 25, W.Va.
7-18-47
9-18-47
9-22-47 Depth 2680 to 3635
with 5900# Det.
946,000 C.F.
382 lbs. 48 hrs. B.Limo
480 lbs. 48 hrs. Shale

Hookwall Packer
Size 2 x 6 5/8 x 16
Depth 2008'

Volume
Rock Pressure

Clay	0	18
Slate	18	30
Sand	30	140
Slate	140	151
Sand	151	220
Slate	220	225
White Sand	225	340
Black Slate	340	361
Sand	361	420
Slate	420	470
Sand	470	550
Slate	550	625
Sand	625	717
Slate	717	750
Sand	750	815
Black Slate	815	951
Sand	951	1050
Bark Slate	1050	1250
Salt Sand	1250	1700
Red Rock	1700	1700
Gray Slate	1700	1730
Lime Shells	1730	1738
Gray Slate	1738	1747
Red Rock	1747	1751
Gray Slate	1751	1755
Maxon Sand	1755	1790
Little Lime	1790	1822
Pencil Cave	1822	1826
Big Lime	1826	2024
Injun Sand	2024	2075
Slate & Shells	2075	2600
Brown Shale	2600	2620
Berea Sand	2620	2635
Slate & Shells	2635	2685
Brown Shale	2685	2735
White Slate	2735	3300
Brown Shale	3300	3630
Slate	3630	3635
Total Depth	3635	SIM

Gas 1970-1975 Big Lime
Gas 3380 and 3550 Shale

1) Date: February 22, 2019 **05/03/2019**
2) Operator's Well Number
806182

3) API Well No.: 47 - 47-099 - 00482

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>See Attached Sheet for Surface Owners</u>	Name <u>None</u>
Address _____	Address _____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Henderson Aldridge, C/O Dallas Aldridge</u>
(c) Name _____	Address <u>72 Hillandale Avenue</u>
Address _____	<u>Garner, NC 27529</u>
6) Inspector <u>Allen Flowers</u>	(c) Coal Lessee with Declaration
Address <u>165 Grassy Lick Lane</u>	Name <u>None</u>
<u>Liberty, WV 25124</u>	Address _____
Telephone <u>304-552-8308</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 Core Appalachia Operating, LLC
 By: [Signature] Jessica Greathouse
 Its: Manager - EHS & Administration Services
 Address P.O. Box 6070
Charleston, WV 25362
 Telephone 304-353-5240

RECEIVED
 Office of Oil and Gas
FEB 25 2019
 WV Department of
 Environmental Protection

Subscribed and sworn before me this 22nd day of February 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 depprivacyofficer@wv.gov.

47-099-00482P
05/03/2019

Well 806182

API: 47-099-00482

SURFACE OWNERS:

Each own $\frac{1}{4}$ of surface

Henderson Aldridge
C/O Dallas Aldridge
72 Hillandale Avenue
Garner, NC 27529

Richard Dale Maynard
17070 Route 152 Road
Genoa, WV 25517

Sharon Rooney
Las Brisas Way
Jacksonville, FL 32224

Patty Ferguson
4056 Deeds Road, S.W.
Grandville, OH 43023

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Office of Oil and Gas
FEB 25 2019
WV Department of
Environmental Protection

806182
 47-099-004821 05/03/2019

7015 0640 0005 7840 2865

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For delivery information, visit our website at www.usps.com®.

GARNER, NC 27529

OFFICIAL USE

Certified Mail Fee	\$3.50	0523
Extra Services & Fees (check box, add fee as appropriate)	\$2.80	04
<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 Postage and Fees	\$7.60	

Postmark Here
 02/22/2019

Sent To: 806182 P&A
 Henderson Aldridge
 C/O Dallas Aldridge
 72 Hillandale Avenue
 Garner, NC 27529

PS Form 3800, June 2010

7015 0640 0005 7840 2834

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GENOA, WV 25517

OFFICIAL USE

Certified Mail Fee	\$3.50	0523
Extra Services & Fees (check box, add fee as appropriate)	\$2.80	04
<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 Postage and Fees	\$7.60	

Postmark Here
 02/22/2019

Sent To: 806182 P&A
 Richard Dale Maynard
 17070 Route 152 Road
 Genoa, WV 25517

PS Form 3800, June 2010

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JACKSONVILLE, FL 32224

OFFICIAL USE

Certified Mail Fee	\$3.50	0523
Extra Services & Fees (check box, add fee as appropriate)	\$2.80	04
<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 Postage and Fees	\$7.60	

Postmark Here
 02/22/2019

Sent To: 806182 P&A
 Sharon Rooney
 Las Brisas Way
 Jacksonville, FL 32224

PS Form 3800, June 2010

7015 0640 0005 7840 2858

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GRANDVILLE, OH 43023

OFFICIAL USE

Certified Mail Fee	\$3.50	0523
Extra Services & Fees (check box, add fee as appropriate)	\$2.80	04
<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 Postage and Fees	\$7.60	

Postmark Here
 02/22/2019

Sent To: 806182 P&A
 Patty Ferguson
 4056 Deeds Road, S.W.
 Grandville, OH 43023

PS Form 3800, June 2010

RECEIVED
 Office of Oil and Gas
 FEB 25 2019
 WV Department of
 Environmental Protection

SURFACE OWNER WAIVER

05/03/2019

Operator's Well
Number

806182

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

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,

RECEIVED
Office of Oil and Gas

FEB 25 2019

WV Department of
Environmental Protection

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

API No. 47-099-00488/03/2019
Farm Name TCO MIN TR
Well No. 806182

**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: _____

By: _____

Its _____

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Office of Oil and Gas
FEB 25 2019
West Virginia Department of
Environmental Protection

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) West Fork of Twelvepole Creek Quadrangle Wilsondale

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: Plugging returns/Cement - Will utilize above ground tanks

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 recovered 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.

Additives to be used in drilling medium? _____

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) _____

-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 - EHS and Administrative Services



Subscribed and sworn before me this 22nd day of February, 2019

Phyllis A. Copley Notary Public

My commission expires September 16, 2023

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Office of Oil and Gas
FEB 25 2019
WV Department of Environmental Protection

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
Red Fescue	40
Alsike	5
Annual Rye	15

Seed Type	lbs/acre
Red Fescue	15
Alsike Clover	5

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: 

Comments: _____

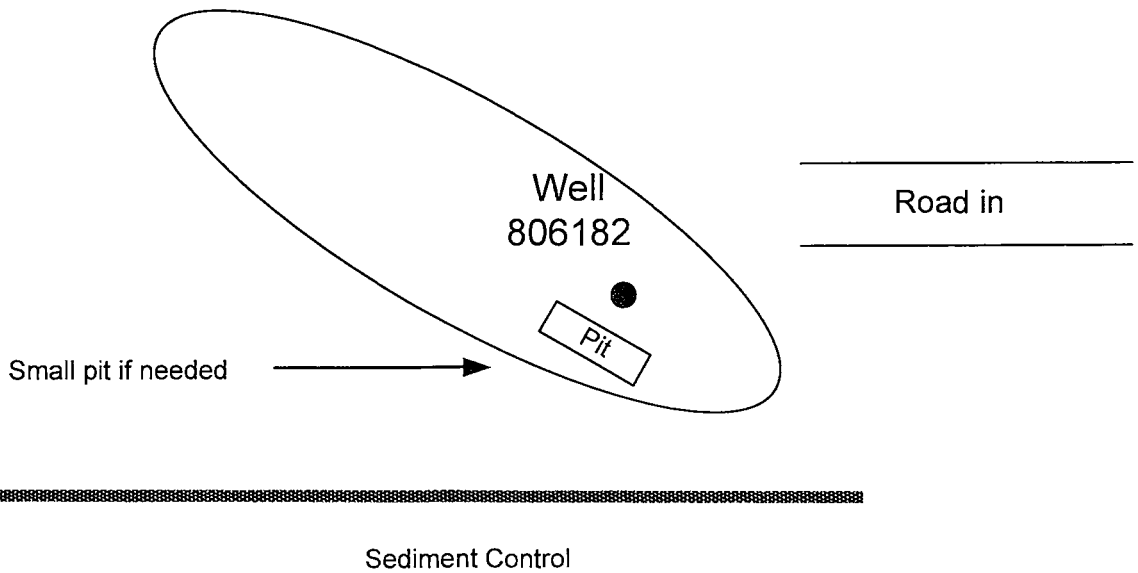
Title: Inspector Date: 3-11-2019

Field Reviewed? (6) Yes () No

Diagram of Well 806182
API 47-099-00482
Field Office - Hamlin
County - Wayne



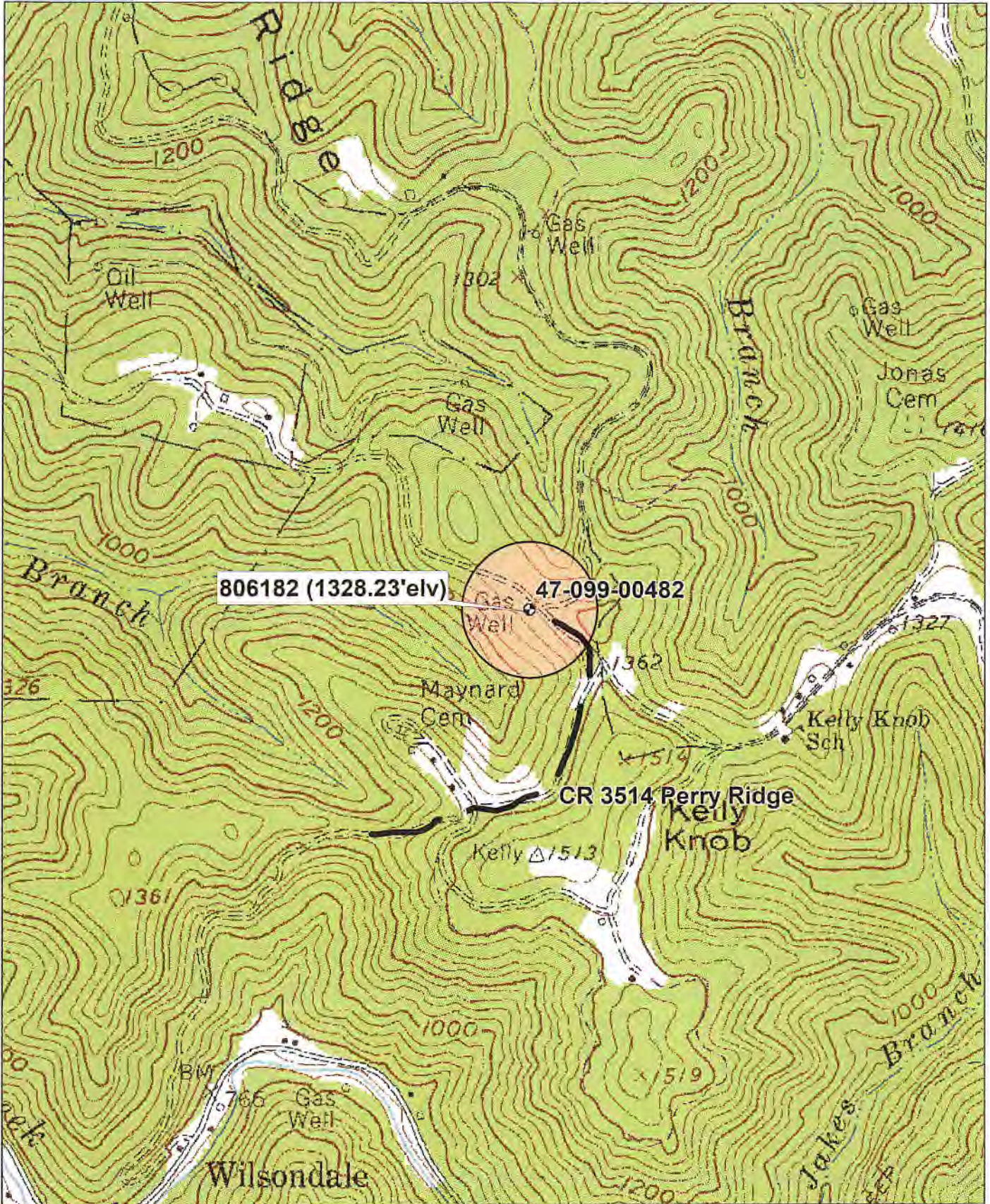
Surface Owner:
Henderson Aldridge



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Office of Oil and Gas
FEB 25 2019
West Virginia Department of
Environmental Protection

Note: No Land Application if pit is used

Site Plan



WELL 806182 P&A TOPO MAP

Data use subject to license.

© DeLorme. XMap® 8.

www.delorme.com



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Office of Oil and Gas

FEB 25 2019

Tex. Department of
Environmental Protection

Scale 1: 12,000



1" = 227.0 ft

Data Zoom 14-1

WW-7
8-30-06



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

API: 47-099-00482 WELL NO.: 806182

FARM NAME: TCO MIN TR

RESPONSIBLE PARTY NAME: Core Appalachia Operating, LLC

COUNTY: Wayne DISTRICT: Lincoln

QUADRANGLE: Wilsondale

SURFACE OWNER: Henderson Aldridge c/o Dallas Aldridge

ROYALTY OWNER: Core Appalachia Production, LLC

UTM GPS NORTHING: 4202686.88m

UTM GPS EASTING: 384154.72m GPS ELEVATION: 404.85m [1328.23' elv]

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:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS : Post Processed Differential

Real-Time Differential

Mapping Grade GPS : Post Processed Differential

Real-Time Differential

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

EHS Specialist
Title

2/22/19
Date

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Office of Oil and Gas
FEB 25 2019
WV Department of Environmental Protection