



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

Jim Justice , Governor
Austin Caperton , Cabinet Secretary
www.dep.wv.gov

Tuesday, July 25, 2017
WELL WORK PERMIT
Vertical / Plugging

LEATHERWOOD, INC.
1000 CONSOL ENERGY DR

CANNONSBURG, PA 153176506

Re: Permit approval for 4
47-103-01332-00-00

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.

Please be advised that form WR-35, Well Operators Report of Well Work 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: 4
Farm Name: EDGELL, ALICE
U.S. WELL NUMBER: 47-103-01332-00-00
Vertical / Plugging
Date Issued: 7/25/2017

Promoting a healthy environment.

07/28/2017

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 _____, 2017
2) Operator's
Well No. 4
3) API Well No. 47-103 - 01332

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 ____/ Shallowx

5) Location: Elevation 1402 Watershed Upper West Virginia Fork Fish Creek
District Church County Wetzel Quadrangle Hundred

6) Well Operator Leatherwood, Inc. 7) Designated Agent Seth Wilson
Address 1000 Consol Energy Drive Address 7000 HAMTON CENTER, SUITE K
Canonsburg, PA 15317 MORGANTOWN, WV 26505

8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Derek Haught Name Coastal Drilling East LLC
Address P.O. Box 85 Address 70 Gums Springs Road
Smithville WV 26178 Morgantown, WV 26508

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

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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 [Signature] Date 7-3-17

07/28/2017

Edgell 4

API 47-103-01332

Church District

Wetzel County

Location: Hundred

Proposed Plug & Abandonment Procedure:

The work order for the manner of plugging this well is as follows:

We will rig up on site and, if necessary, begin to blow the well down and load with fluid to kill. If possible, any tubing or rods present will be removed from the well. We will run in the hole to determine the total depth of the well. Next, we will run wire line in hole and run a caliper/bond log. After the log, we will run work string to the attainable bottom. A bottom cement plug will be set from the attainable to the first packer, based on the log. We will attempt to pull any remaining pipe. If unable to pull, the pipe will be perforated and cemented to surface. Once complete, a monument with the API number will be set on the wellbore at the surface. All plugging shall comply with WV Code Chapter 22 Article 6.

All cement will be Class A with no more than 3% CaCl₂. All spacers will be 6% gel.

The disturbed areas shall be graded, seeded and mulched as required. The site will be reclaimed as soon as possible.

Notify inspector if unable to remove pipe prior to perforating and cementing.

IF CASING CANNOT BE PULLED OR CUT, THEN MAKE SURE PERFORATIONS ARE PLACED TO COVER PITTSBURGH COAL (1195'-1202') WITH CIA CEMENT PLUG. COVER ALL OIL & GAS SHOWS, WATER SHOWS AND CASING CUTS WITH CIA CEMENT PLUGS.
Dmit
7-3-17

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07/28/2017

1) Date: _____
2) Operator's Well Number
4 _____
3) API Well No.: 47 - 103 - 01332

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>STRASLAND LTD</u>	Name <u>N/A</u>
Address <u>PO BOX 85</u>	Address _____
<u>STRASBURG OH 44680-0085</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Consol Mining Company LLC / Reserve Coal Properties Company</u>
_____	Address <u>1000 Consol Energy Drive</u>
_____	<u>Canonsburg, PA 15317</u>
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Derek Haught</u>	(c) Coal Lessee with Declaration
Address <u>P.O. Box 85</u>	Name <u>N/A</u>
<u>Smithville WV 26178</u>	Address _____
Telephone <u>304-206-7613</u>	_____

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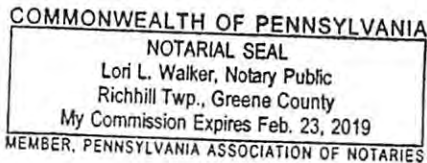
WV Department of
Environmental Protection

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 Leatherwood, Inc.
 By: Gerald Ramsburg
 Its: General Manager
 Address 1000 Consol Energy Drive
Canonsburg, PA 15370
 Telephone (724) 485-4081

Subscribed and sworn before me this 13th day of June 2017
Lori L. Walker Notary Public
 My Commission Expires February 23, 2019



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 deprivacyofficer@wv.gov.

07/28/2017

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

Operator Name Leatherwood, Inc. OP Code 494476721

Watershed (HUC 10) Upper West Virginia Fork Fish Creek Quadrangle Hundred

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: _____ RECEIVED Office of Oil and Gas

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

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Proposed Disposal Method For Treated Pit Wastes: _____

ANY WELL EFFLUENT WILL BE CONTAINED IN VACUUM TRUCKS.

WV Department of Environmental Protection

- 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 Waste Management or Ryan Environmental will use vacuum trucks, and properly dispose of any fluid or waste returns)

Will closed loop system be used? If so, describe: no

DMH
7-3-17

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

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

Additives to be used in drilling medium? na

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

-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]

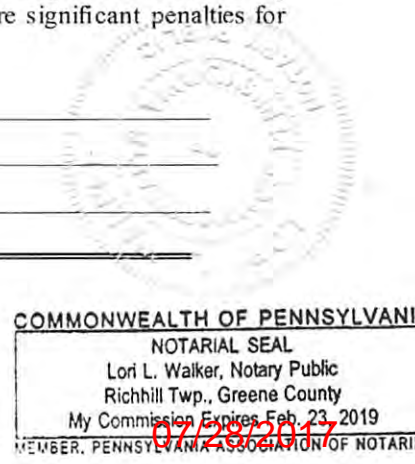
Company Official (Typed Name) Gerald Ramsburg

Company Official Title General Manager

Subscribed and sworn before me this 13th day of June, 2017

[Signature]
Notary Public

My commission expires February 23, 2019



Operator's Well No. _____

Proposed Revegetation Treatment: Acres Disturbed less than 1 acre Prevegetation pH _____

Lime 2-3 Tons/acre or to correct to pH _____

Fertilizer type 10-20-20 or equivalent

Fertilizer amount 500 lbs/acre

Mulch hay or straw 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
<u>Tall Fescue</u>	<u>40</u>	<u>Tall Fescue</u>	<u>40</u>
<u>Landino Clover</u>	<u>5</u>	<u>Landino Clover</u>	<u>5</u>

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: [Signature]

Comments: _____

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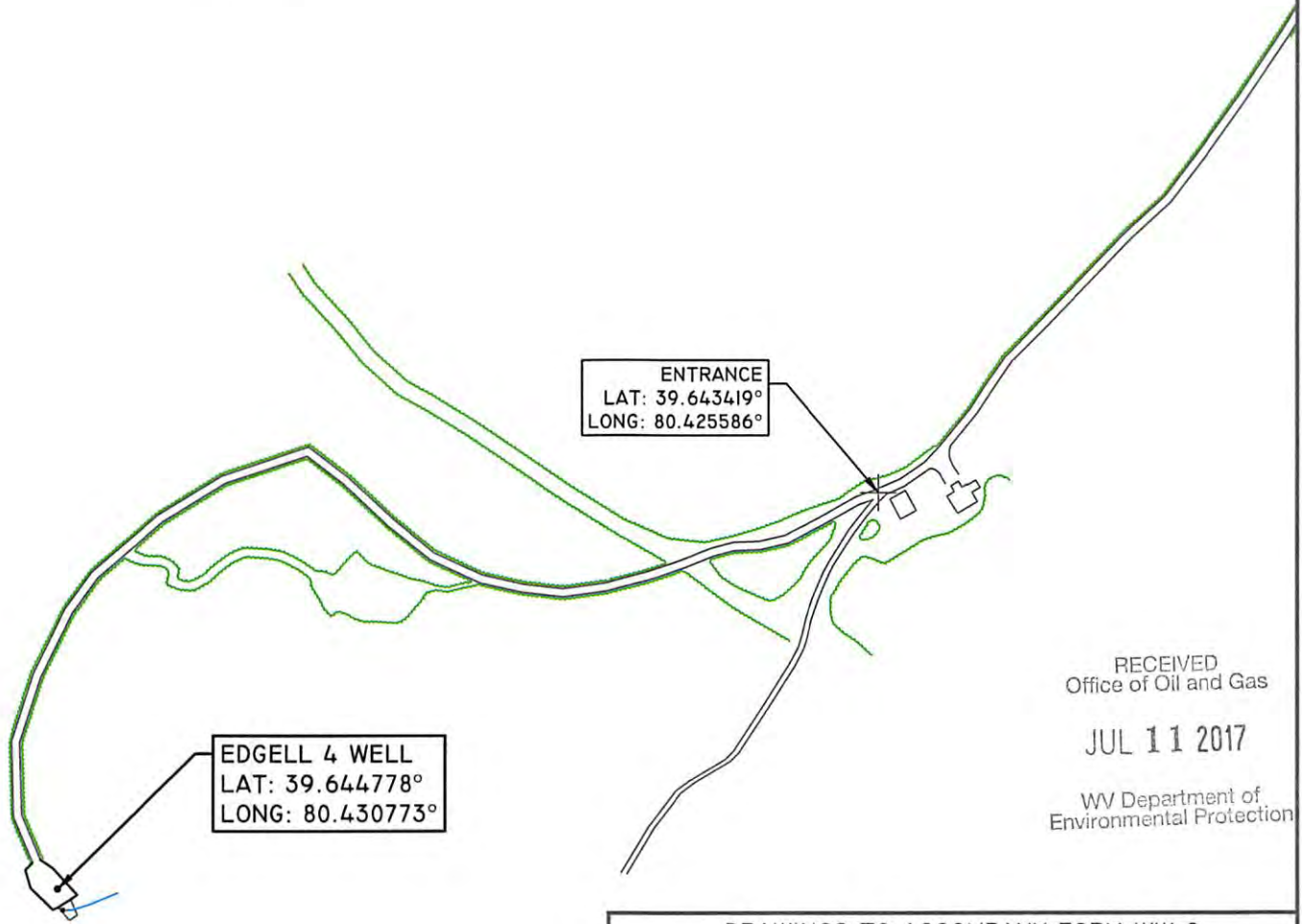
Title: Oil & Gas Inspector Date: 7-3-17

Field Reviewed? () Yes () No

THIS PLAN IS FOR THE PLUGGING OF AN EXISTING WELL. ENTIRE LENGTH OF ACCESS IS EXISTING WELL ROAD. ROCK WILL BE USED WHERE NECESSARY.

LEGEND

- — — — — - EXISTING ROAD
- ~~~~~ - EXISTING TREE LINE



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DRAWINGS TO ACCOMPANY FORM WW-9

LEATHERWOOD, INC.

200 HALLAM ROAD

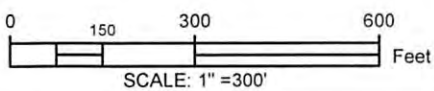
WASHINGTON, PA 15301

WATERSHED: UPPER WEST VIRGINIA FORK FISH CREEK

DISTRICT: CHURCH COUNTY: WETZEL

QUADRANGLE: HUNDRED WELL NO: EDGELL 4

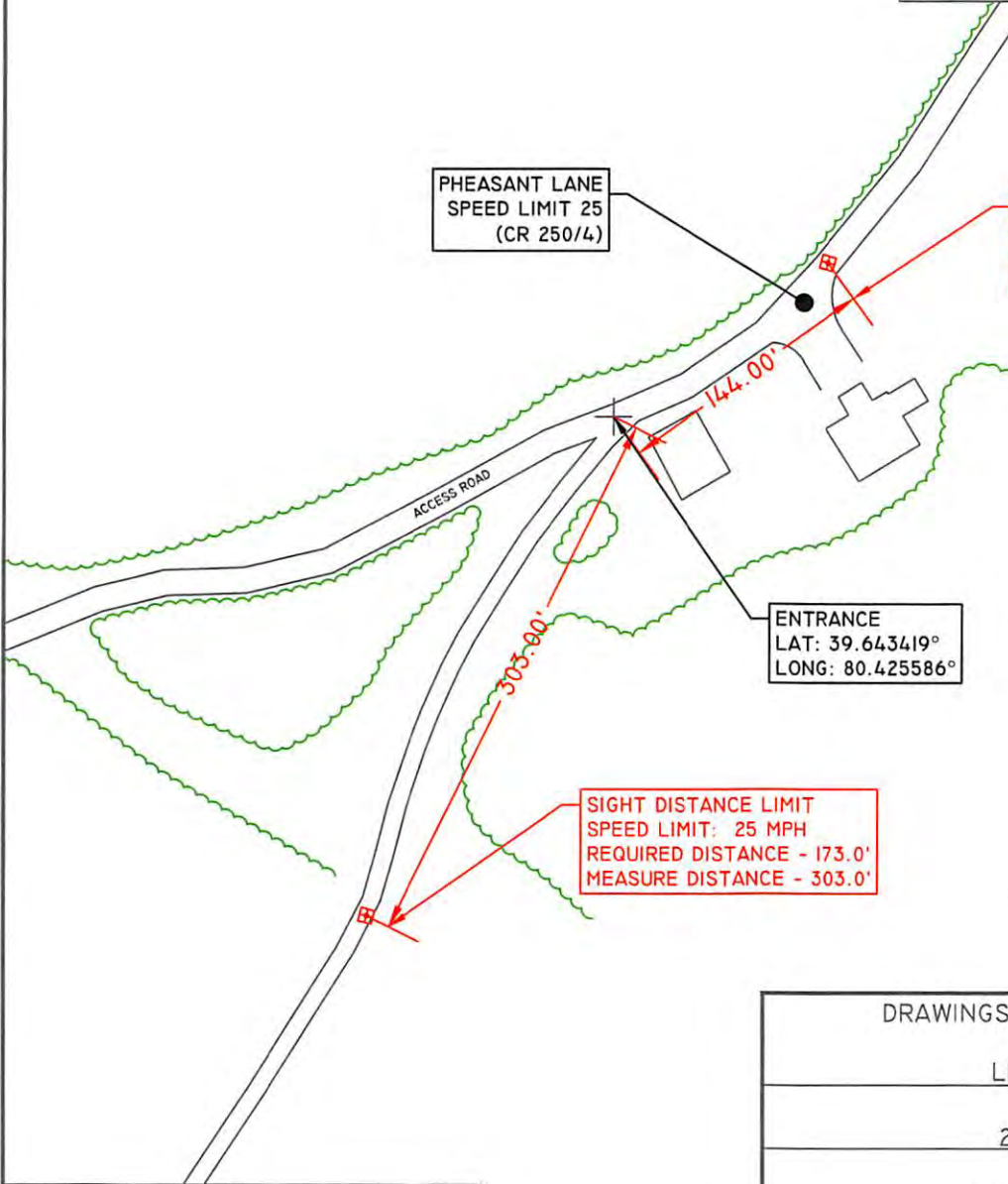
DATE: 05/25/2017 PAGE 1 OF 4



THIS PLAN IS FOR THE PLUGGING OF AN EXISTING WELL. ENTIRE LENGTH OF ACCESS IS EXISTING WELL ROAD. ROCK WILL BE USED WHERE NECESSARY.

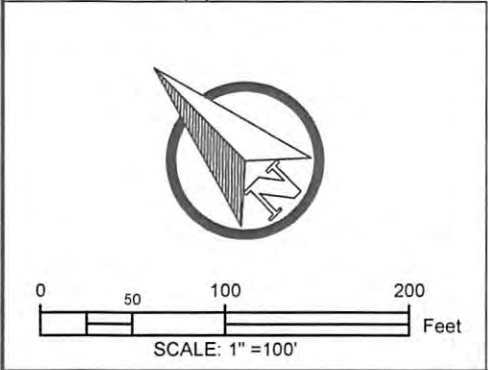
LEGEND

— — — — — - EXISTING ROAD
 ~~~~~ - EXISTING TREE LINE



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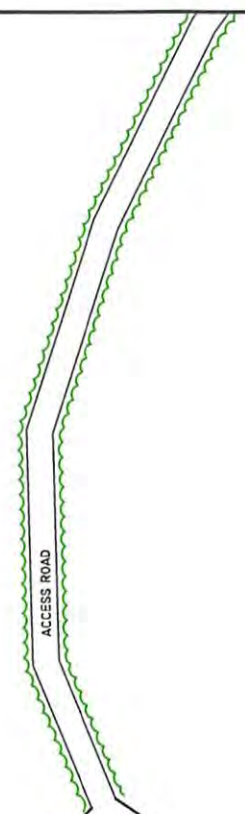
|                                                       |                           |
|-------------------------------------------------------|---------------------------|
| DRAWINGS TO ACCOMPANY FORM WW-9                       |                           |
| LEATHERWOOD, INC.                                     |                           |
| 200 HALLAM ROAD                                       |                           |
| WASHINGTON, PA 15301                                  |                           |
| WATERSHED: <u>UPPER WEST VIRGINIA FORK FISH CREEK</u> |                           |
| DISTRICT: <u>CHURCH</u>                               | COUNTY: <u>WETZEL</u>     |
| QUADRANGLE: <u>HUNDRED</u>                            | WELL NO: <u>EDGELL 4</u>  |
| DATE: <u>05/25/2017</u>                               | PAGE <u>2</u> OF <u>4</u> |



THIS PLAN IS FOR THE PLUGGING OF AN EXISTING WELL. ENTIRE LENGTH OF ACCESS IS EXISTING WELL ROAD. ROCK WILL BE USED WHERE NECESSARY.

**LEGEND**

- — — — — - EXISTING ROAD
- ~~~~~ - EXISTING TREE LINE



EDGELL 4 WELL  
LAT: 39.644778°  
LONG: 80.430773°

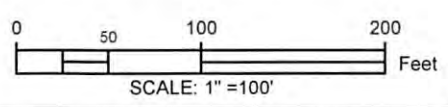
S-1  
INTERMITTENT STREAM

EXG CONTAINMENT

SPRING SEEP

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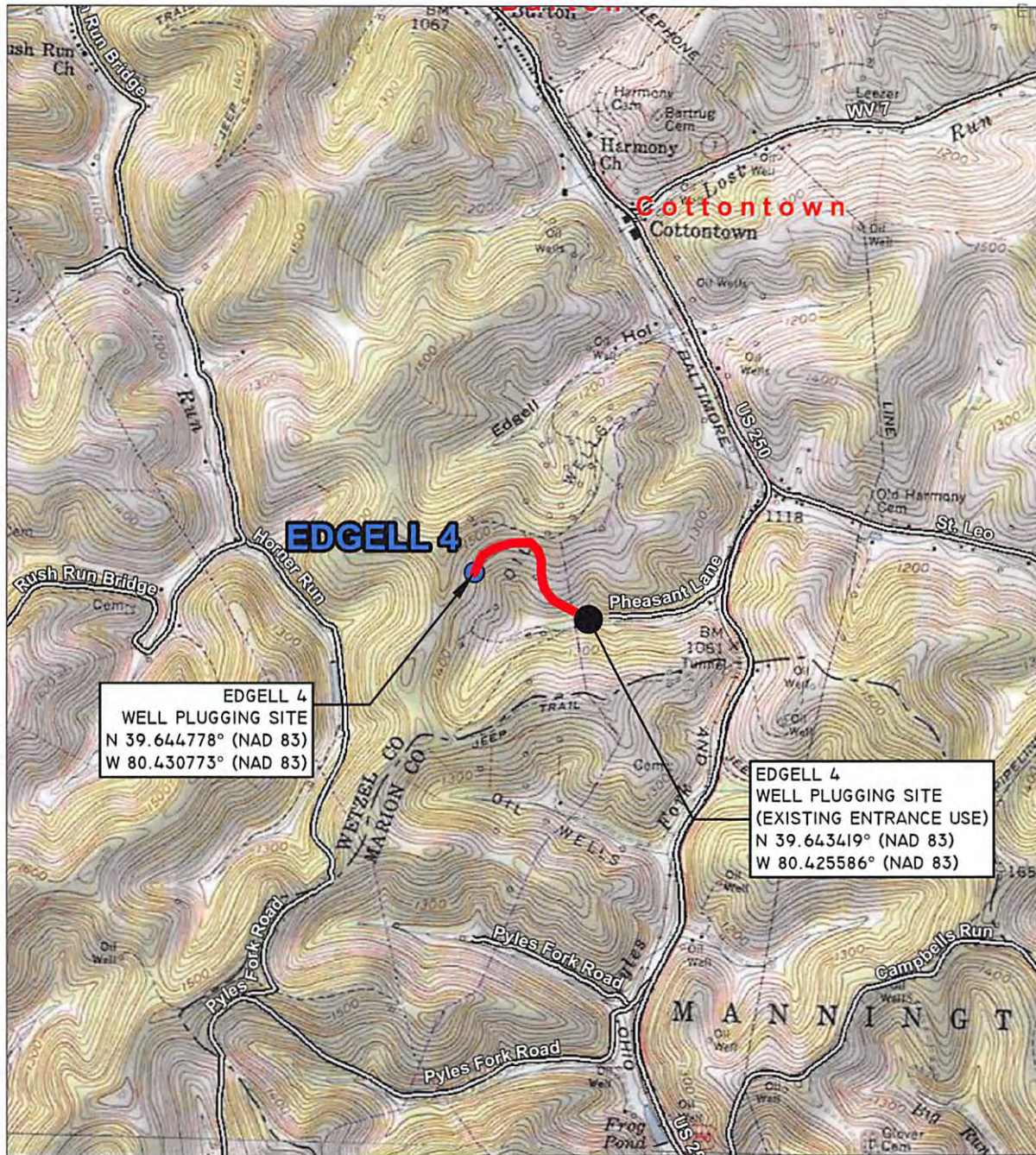
|                                                       |
|-------------------------------------------------------|
| DRAWINGS TO ACCOMPANY FORM WW-9                       |
| LEATHERWOOD, INC.                                     |
| 200 HALLAM ROAD                                       |
| WASHINGTON, PA 15301                                  |
| WATERSHED: <u>UPPER WEST VIRGINIA FORK FISH CREEK</u> |
| DISTRICT: <u>CHURCH</u> COUNTY: <u>WETZEL</u>         |
| QUADRANGLE: <u>HUNDRED</u> WELL NO: <u>EDGELL 4</u>   |
| DATE: <u>05/25/2017</u> PAGE <u>3</u> OF <u>4</u>     |





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LOCATION MAP  
HUNDRED, WV 7.5M USGS QUADRANGLE  
SCALE: 1"=2000'



**Blue Mountain Inc.**  
Engineers and Land Surveyors  
Woman Owned Small Business  
11023 Mason Dixon Hwy.  
Burton, WV 26562-9656  
(304) 662-6486

**LOCATION MAP**  
GAS WELL PLUGGING  
EDGELL 4 GAS WELL  
CHURCH DISTRICT  
WETZEL COUNTY, WV  
LEATHERWOOD, INC.  
200 HALLAM ROAD  
WASHINGTON, PA 15301

|                                                   |
|---------------------------------------------------|
| DRAWN BY: LLF                                     |
| CHECKED BY: WPF                                   |
| DATE: 05/25/2017                                  |
| SCALE: 1"=2000'                                   |
| WATERSHED:<br>UPPER WEST VIRGINIA FORK FISH CREEK |
| PAGE <u>4</u> OF <u>4</u>                         |



WW-7  
8-30-06



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

API: 47-103-01332 WELL NO.: 4

FARM NAME: Edgell

RESPONSIBLE PARTY NAME: Gerald Ramsburg

COUNTY: Wetzel DISTRICT: Church

QUADRANGLE: Hundred

SURFACE OWNER: STRASLAND LTD

ROYALTY OWNER: \_\_\_\_\_

UTM GPS NORTHING: 4,388,487.056 METERS

UTM GPS EASTING: 548,840.034 METERS GPS ELEVATION: 427.330 METERS (1402')

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 x : Post Processed Differential X

Real-Time Differential \_\_\_\_\_

Mapping Grade GPS \_\_\_\_\_ : Post Processed Differential \_\_\_\_\_

Real-Time Differential \_\_\_\_\_

- 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

General Manager  
Title

6/13/17  
Date

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