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west virginia department of environmental protection

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Office of Oil and Gas  
601 57<sup>th</sup> Street, S.E.  
Charleston, WV 25304  
(304) 926-0450  
fax: (304) 926-0452

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

Friday, July 21, 2017  
WELL WORK PERMIT  
Vertical / Plugging

LEATHERWOOD, INC.  
1000 CONSOL ENERGY DR

CANNONSBURG, PA 153176506

Re: Permit approval for CARNEY 5137  
47-103-00856-00-00

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: CARNEY 5137  
Farm Name: KERNS, C.L. & OPAL  
U.S. WELL NUMBER: 47-103-00856-00-00  
Vertical / Plugging  
Date Issued: 7/21/2017

Promoting a healthy environment.

07/21/2017

## 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

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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 \_\_\_\_\_, 2017  
2) Operator's  
Well No. 5137  
3) API Well No. 47-103 - 00856

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  \_\_\_\_/ Liquid injection \_\_\_\_/ Waste disposal \_\_\_\_/  
(If "Gas, Production  or Underground storage \_\_\_\_ ) Deep \_\_\_\_/ Shallow

5) Location: Elevation 1032 Watershed Long Drain  
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 Name Derek Haught  
Address P.O. Box 85  
Smithville WV 26178  
9) Plugging Contractor Name Coastal Drilling East LLC  
Address 70 Gums Springs Road  
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  Date 7-3-17

07/21/2017

Carney 5137

API 47-103-00856

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% CaCl<sub>2</sub>. 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.

MAPLETOWN COAL 625' - 630' } MAKE SURE COAL IS COVERED  
 PITTSBURGH COAL 730' - 736' }  
 DMH 7-3-17

MAY BE  
 3140' OF 2" IN HOLE  
 1930' OF 6 5/8" IN HOLE  
 1200' OF 8 1/4" IN HOLE  
 751' OF 10" IN HOLE  
 159' OF 13" IN HOLE

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103-0856-P

W-5137  
Lease 3494- S. S. Carney  
TD 3142

Pipe in hole

Coal Seams

3140' of 2"  
1930' of 6 5/8"  
1200' of 8 1/4"  
751' of 10"  
159' of 13"

Mapletown Coal 625 - 630  
Pittsburgh Coal 730' to 736'

Pull all pipe possible and set 100' cement plugs at all cuts.

All plugs are composed of Class A neat cement

- Gel 3142 to surface
- Cement 3142 to 3042
- Cement 100' at 6 5/8" if casing cut
- Cement 100' at 8 1/4" if casing cut
- Cement 100' at 10" if casing cut
- Cement 100' at 13" if casing cut
- Cement 776 to 710 over coal
- Cement 670 to 605 over coal
- Cement 100' to surface
- Set monument, 7" pipe or larger, 13' long cemented in with API # displayed

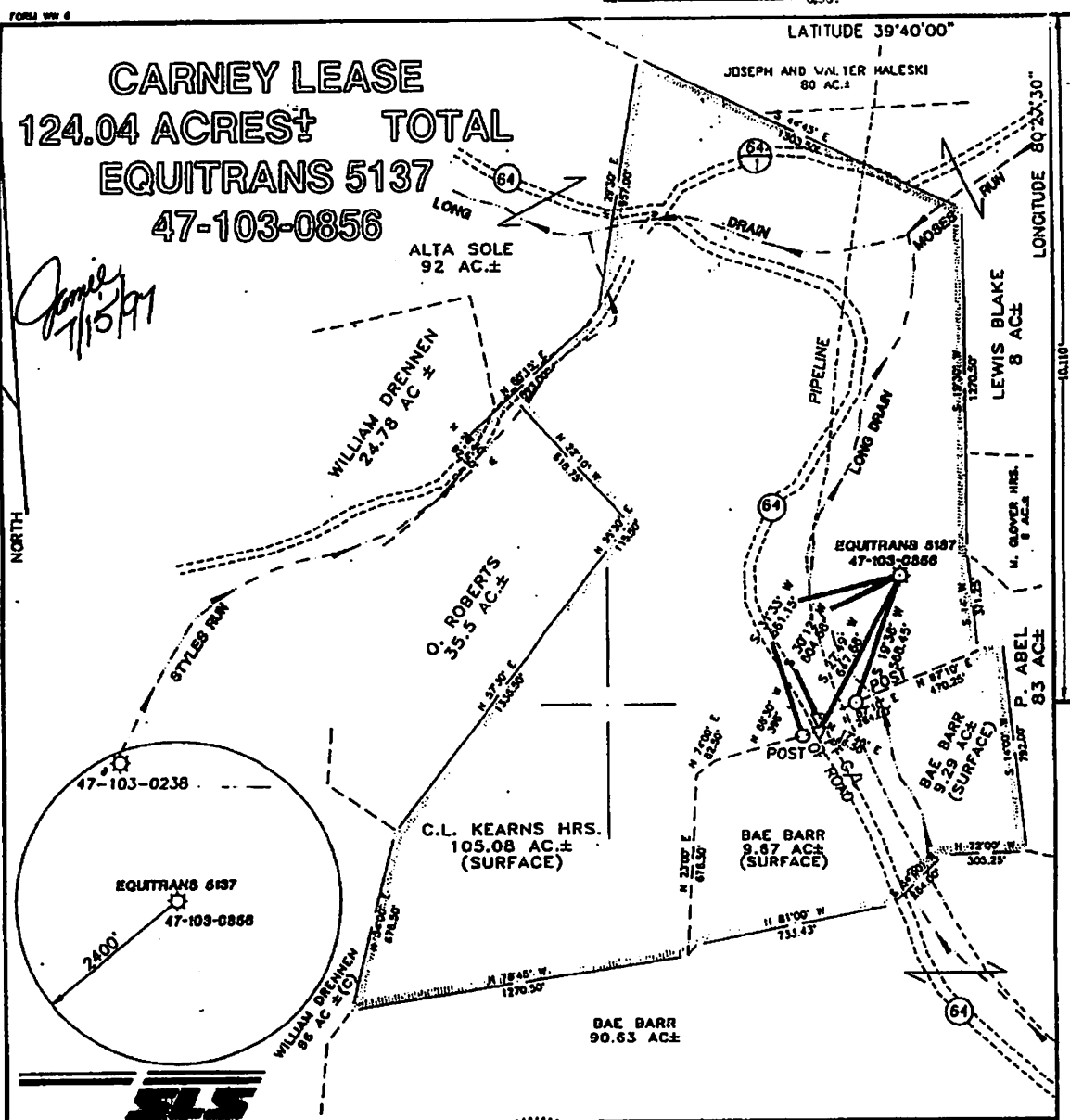
Unrecoverable pipe through coal seams must be perforated and squeezed above and below the coal seam.

Plugging operation subject to change upon inspectors approval.

*Equipment  
Plugging  
approved  
47-103-00856-P*



10300856A



I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT 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 DEPARTMENT OF ENERGY.



P.S. Gregory A. Smith  
677

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
DATE JUNE 19 19 97  
OPERATORS WELL NO. EQUITRANS 5137  
47-103-0856  
API WELL NO. 47-103-0856P  
STATE COUNTY PERMIT  
PLUGGING CANCELLED

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 3734P1 (65-24)  
PROVEN SOURCE OF ELEVATION JUNCTION OF ROADS ELEVATION 1031'  
SCALE 1" = 500'

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

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  IF "GAS" PRODUCTION  STORAGE  DEEP  SHALLOW

LOCATION: ELEVATION 1037' WATERSHED LONG DRAIN DISTRICT CHURCH COUNTY WETZEL QUADRANGLE HUNDRED 75

SURFACE OWNER C.L. KEARNS HRS. ACREAGE 105.08  
ROYALTY OWNER MATTHEW CARNEY LEASE ACREAGE 124.04  
PROPOSED WORK: LEASE NO. 3494

DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  PLUG AND ABANDON  CLEAN OUT AND REPLUG  OTHER

PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ TARGET FORMATION 3142' ESTIMATED DEPTH \_\_\_\_\_

WELL OPERATOR EQUITRANS, L.P. DESIGNATED AGENT WILLIAM HOSTUTLER  
ADDRESS 3500 PARK LANE PITTSBURGH, PA 15275 ADDRESS P.O. BOX 1550 CLARKSBURG, WV 26301

*James*  
*1/15/97*

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COUNTY NAME  
WET  
PERMIT  
0856-P

07/21/2017

10300856P

WW-4A  
Revised 6-07

1) Date: \_\_\_\_\_  
2) Operator's Well Number  
5137  
3) API Well No.: 47 - 103 - 00856

**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>KERN DELBERT VICTOR HRS., C/O HAYHURST COMPANY</u>	Name <u>Unknown</u>
Address <u>PO BOX 5065</u>	Address _____
<u>Fairmont, WV 26555</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>WPP, LLC</u>
_____	Address <u>5260 Huntington Road</u>
_____	<u>Huntington WV 25705-3247</u>
(c) Name _____	Name <u>Hundred Resources, Inc.</u>
Address _____	Address <u>P.O. Box 5065</u>
_____	<u>Fairmont, WV 26555</u>
_____	_____
6) Inspector <u>Derek Haught</u>	(c) Coal Lessee with Declaration
Address <u>P.O. Box 85</u>	Name <u>Foundation Coal Resources Corporation</u>
<u>Smithville WV 26178</u>	Address <u>158 Portal Road</u>
Telephone <u>304-206-7613</u>	<u>Waynesburg, WV 15370</u>

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**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.

**COMMONWEALTH OF PENNSYLVANIA**  
**NOTARIAL SEAL**  
Lori L. Walker, Notary Public  
Richhill Twp., Greene County  
My Commission Expires Feb. 23, 2019  
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

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 [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

07/21/2017



WW-9  
(5/16)

API Number 47 - 103 - 00856  
Operator's Well No. \_\_\_\_\_

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) Long Drain 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: \_\_\_\_\_

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

Proposed Disposal Method For Treated Pit Wastes:

*ANY WELL EFFLUENT MUST BE CONTAINED IN TANKS & DISPOSED OF OFF SITE, PROPERLY.*

- 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)

*DMH  
7-3-17*

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

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

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

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-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 *Gerald Ramsburg*

Company Official (Typed Name) Gerald Ramsburg

Company Official Title General Manager

Subscribed and sworn before me this 13<sup>th</sup> day of June, 20 17

*Lori L. Walker*

Notary Public

My commission expires February 23, 2019



COMMONWEALTH OF PENNSYLVANIA  
NOTARIAL SEAL  
Lori L. Walker, Notary Public  
Richhill Twp., Greene County  
My Commission Expires Feb 23, 2019  
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

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**

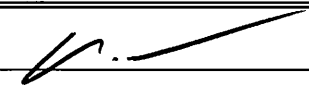
**Permanent**

Seed Type	lbs/acre
Tall Fescue	40
Landino Clover	5

Seed Type	lbs/acre
Tall Fescue	40
Landino 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: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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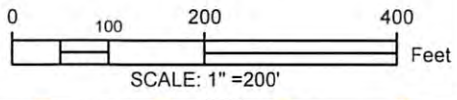
JUL 11 2017

Title: Oil + Gas Inspector

Date: 7-3-17

Field Reviewed?  Yes  No

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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
- - FEMA FLOODPLAIN

ENTRANCE  
LAT: 39.640264°  
LONG: 80.480320°

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CARNEY 5137 (#2)  
WELL  
LAT: 39.638797°  
LONG: 80.481553°

FEMA FLOODPLAIN BOUNDARY  
(ZONE A)

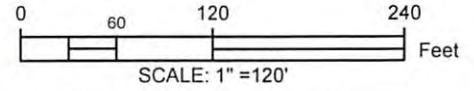
DRAWINGS TO ACCOMPANY FORM WW-9	
LEATHERWOOD, INC.	
200 HALLAM ROAD	
WASHINGTON, PA 15301	
WATERSHED:	LONG DRAIN
DISTRICT:	CHURCH
COUNTY:	WETZEL
QUADRANGLE:	HUNDRED
WELL NO:	5137 (#2)
DATE:	05/25/2017
PAGE:	1 OF 4

07/21/2017

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
- — — — — FEMA FLOODPLAIN



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SIGHT DISTANCE LIMIT  
SPEED LIMIT: 55 MPH  
REQUIRED DISTANCE - 593.0'  
MEASURE DISTANCE - 267.0'

FEMA FLOODPLAIN BOUNDARY  
(ZONE A)

WILEY FORK-LONG DRAIN ROAD  
SPEED LIMIT 55  
(CR 64)

SIGHT DISTANCE LIMIT  
SPEED LIMIT: 55 MPH  
REQUIRED DISTANCE - 593.0'  
MEASURE DISTANCE - 423.0'

ENTRANCE  
LAT: 39.640264°  
LONG: 80.480320°

S-1  
PERENNIAL STREAM

EXG GAS LINE  
MARKER

EXG EQT  
GAS LINE

TIMBER MAT CROSSING  
DISTURBANCE AREA = 0.002 ACRES

WETLAND  
AREA = 0.08 ACRES

CARNEY 5137 (#2)  
WELL  
LAT: 39.638797°  
LONG: 80.481553°

S-1  
PERENNIAL STREAM

DRAWINGS TO ACCOMPANY FORM WW-9

LEATHERWOOD, INC.

200 HALLAM ROAD

WASHINGTON, PA 15301

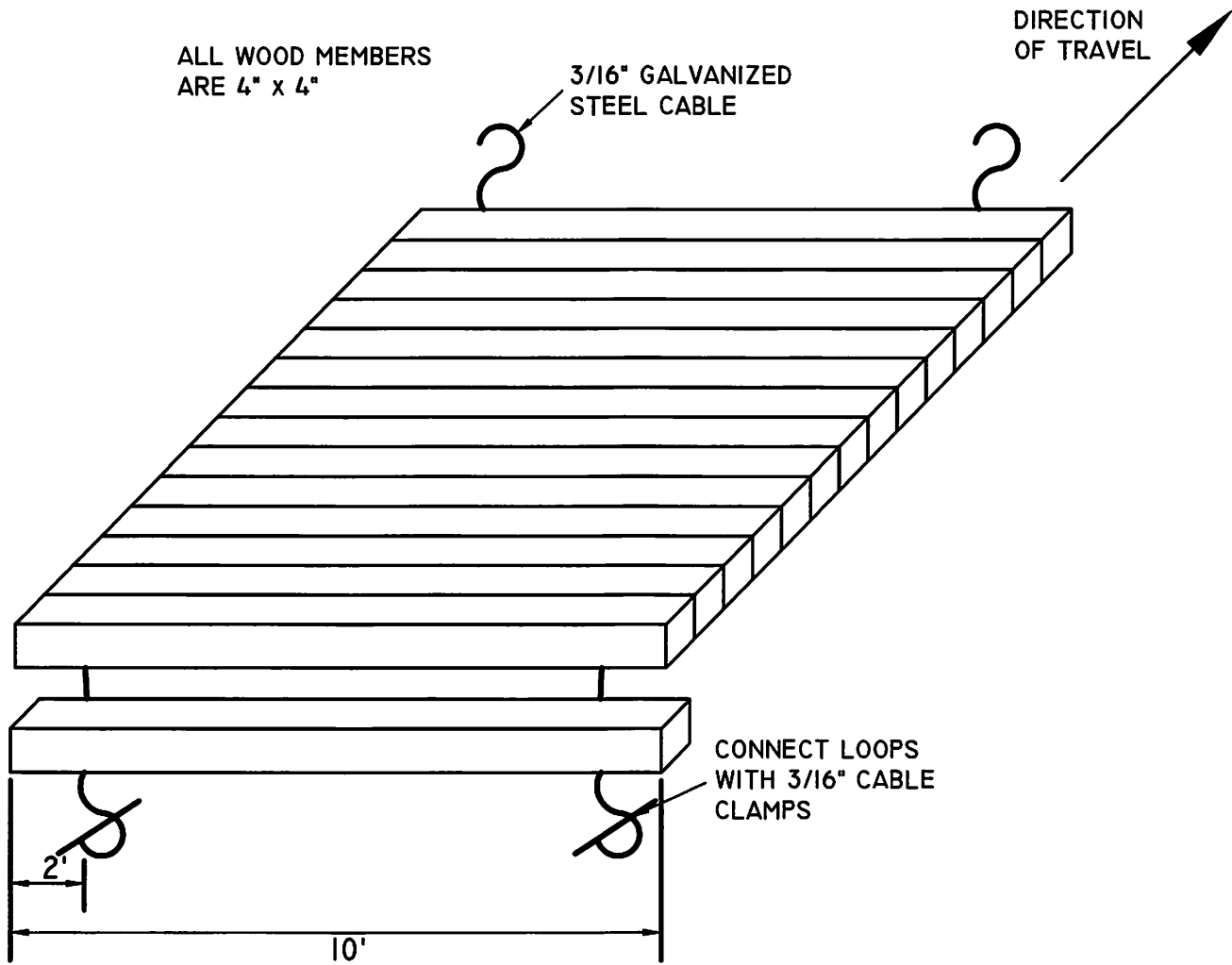
WATERSHED: LONG DRAIN

DISTRICT: CHURCH COUNTY: WETZEL

QUADRANGLE: HUNDRED WELL NO: 5137 (#2)

DATE: 05/25/2017 PAGE 2 OF 4

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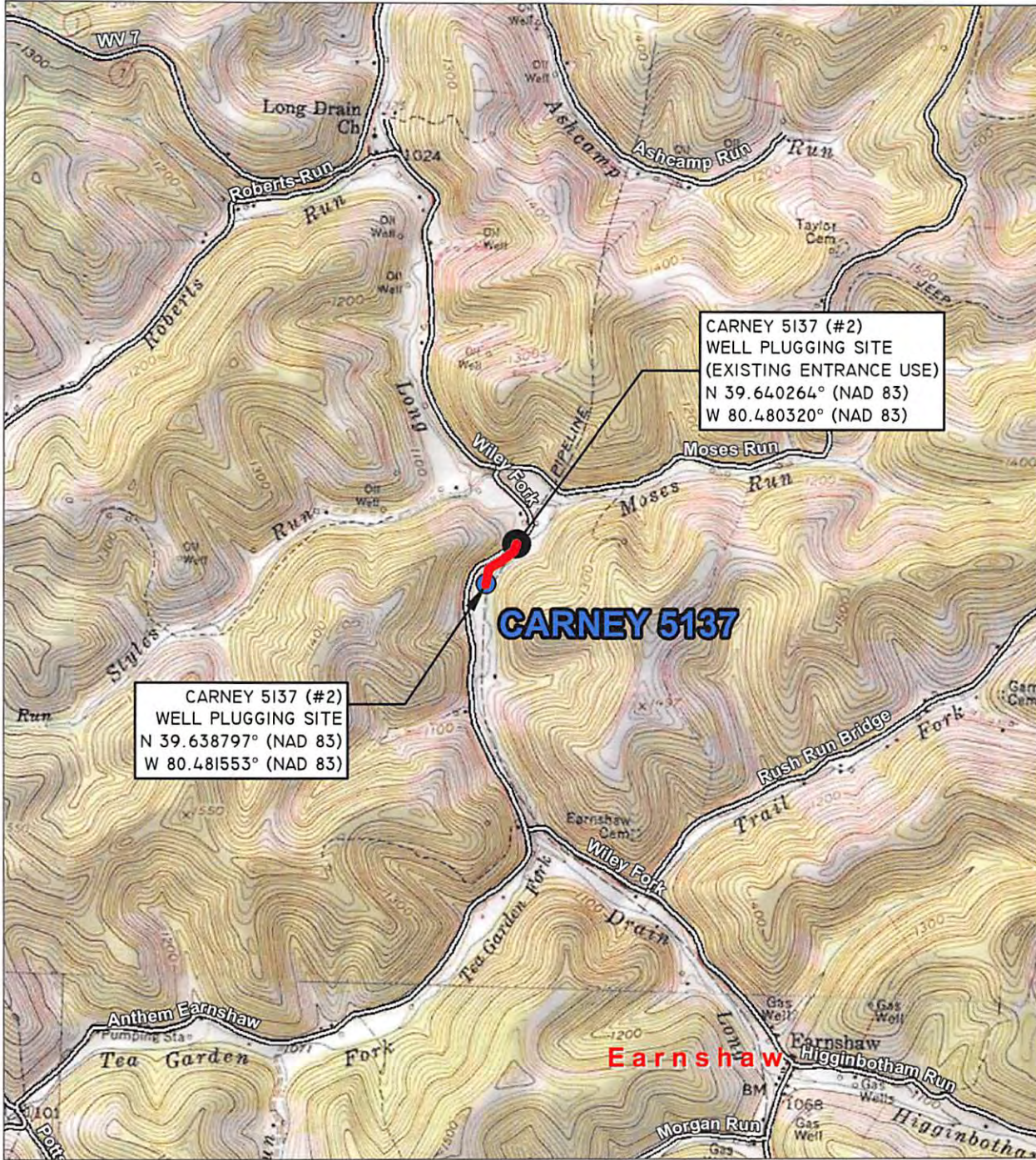


TYPICAL WOOD MAT CROSSING DETAIL

NOT TO SCALE

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DRAWINGS TO ACCOMPANY FORM WW-9	
LEATHERWOOD, INC.	
200 HALLAM ROAD	
WASHINGTON, PA 15301	
WATERSHED: <u>LONG DRAIN</u>	
DISTRICT: <u>CHURCH</u>	COUNTY: <u>WETZEL</u>
CARNEY	
QUADRANGLE: <u>HUNDRED</u>	WELL NO: <u>5137 (#2)</u>
DATE: <u>05/25/2017</u>	PAGE <u>3</u> OF <u>3</u>
07/21/2017	



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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  
CARNEY 5137 (#2) 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: LONG DRAIN
PAGE 2 OF 3

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WW-7  
8-30-06



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

API: 47-103-00856 WELL NO.: 5137

FARM NAME: Carney

RESPONSIBLE PARTY NAME: Gerald Ramsburg

COUNTY: Wetzel DISTRICT: Church

QUADRANGLE: Hundred

SURFACE OWNER: KERN DELBERT VICTOR HRS.

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

UTM GPS NORTHING: 4,387,796.873 METERS

UTM GPS EASTING: 544,486.887 METERS GPS ELEVATION: 314.554 METERS (1031.5')

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]  
Signature

General Manager  
Title

6/17/17  
Date

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