



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

Monday, July 31, 2017
WELL WORK PERMIT
Not Available / Plugging

LEATHERWOOD, INC.
1000 CONSOL ENERGY DR

CANNONSBURG, PA 153176506

Re: Permit approval for 1
47-061-01154-00-00

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: 1
Farm Name: RENNER, A. R.
U.S. WELL NUMBER: 47-061-01154-00-00
Not Available / Plugging
Date Issued: 7/31/2017

Promoting a healthy environment.

08/04/2017

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6101154P

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.

08/04/2017

1) Date _____, 2017
2) Operator's
Well No. 1
3) API Well No. 47-061 - 01154

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 1236.1 Watershed PA Fork Dunkard Creek
District Battelle County Monogalia Quadrangle Hundred

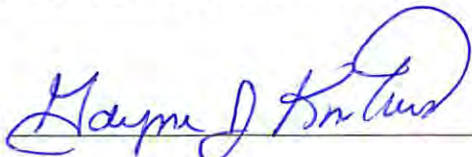
6) Well Operator Leatherwood, Inc. 7) Designated Agent Seth Wilson
Address 1000 Consol Energy Drive Address 7000 HAMTON CENTER, SUITE K
Canonsburg, PA 15317 MORGANTOWN, WV 26505

8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Gayne J Knitowski Name Coastal Drilling East LLC
Address P.O. Box 108 Address 70 Gums Springs Road
Gormanian WV 26720 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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JUL 13 2017
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 7/6/2017

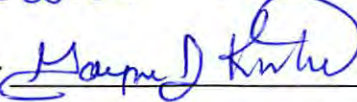
08/04/2017

Plugging Work Order for Renner**API Number 47-061-01154****Elevation 1180'****Original Permit Issued- 5/02/1994**

1. Blow well down and load with gel to control well.
2. TIH with sand line to determine TD (3200')
3. Remove 2" tubing
4. TIH with workstring to attainable bottom and set bottom cement plug up to casing shoe of next string (6-5/8" @ 2257')
5. Pull 6-5/8" casing, if unable to pull, perforate 4 spf every 100' up to freepoint, then cut and pull. If possible, cut and pull above next casing shoe. (8-1/4" @ 1520')
6. Pull 8-1/4" casing, if unable to pull, perforate 4 spf every 100' to surface.
7. TIH with workstring to 2257' and cement to surface
8. Install 4" x 14' monument (10' below grade, 4' above grade) API 47-061-01154

9. Reclaim plugged well site ASAP *SPK*

Work Order approved by Inspector



Date:

7/6/2017

Note: Cement will be Class A. All spacers will be 6% gel.

* APPEARS TO BE 316' OF 5 3/16" CASING HUNG ON PACKER,
OR ATTACHED TO THE BOTTOM OF THE 6 5/8" CASING.

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08/04/2017

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OFFICE OF OIL AND GAS

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

02-May-94
API # 47- 61-01154 N

6101154P

JUN 21 1994

WV Division of Well Operator's Report of Well Work
Environmental Protection
Farm Name: RENNER, A.R. Operator Well No.: 1

LOCATION: Elevation: 1,180.00 Quadrangle: HUNDRED

District: BATTELLE County: MONONGALIA
Latitude: 10850 Feet South of 39 Deg. 45Min. Sec.
Longitude 6000 Feet West of 80 Deg. 22 Min. 30 Sec.

Company: GREENRIDGE OIL, INC.
R.D. 1, BOX 267
NEW FREEPORT, PA 15352-0267

Agent: JOHN LAVELLE

Inspector: RANDAL MICK
Permit Issued: 05/02/94
Well work Commenced: _____
Well work Completed: _____
Verbal Plugging _____
Permission granted on: _____
Rotary Cable _____ Rig _____
Total Depth (feet) _____
Fresh water depths (ft) 1800'

Salt water depths (ft) _____

Is coal being mined in area (Y/N)? No
Coal Depths (ft): Maple Lawn 930'
Pittsburg 1023'

| Casing & Tubing Size | Used in Drilling | Left in Well | Cement Fill Up Cu. Ft. |
|----------------------|------------------|--------------|------------------------|
| 10" | 325' | 325' | - |
| 8 1/4" | 1520' | 1520' | - |
| 6 5/8" | 2257' | 2257' | - |
| 5 7/16" | 316' | 316' | - |
| 2" Tubing | 3213 | 3213 | - |

OPEN FLOW DATA

Producing formation Big Injun (Gas) Pay zone depth (ft) 2320
 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

Second producing formation 4th SAND (Oil) Pay zone depth (ft) 3203
 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: GREENRIDGE OIL, INC.

By: _____
Date: _____

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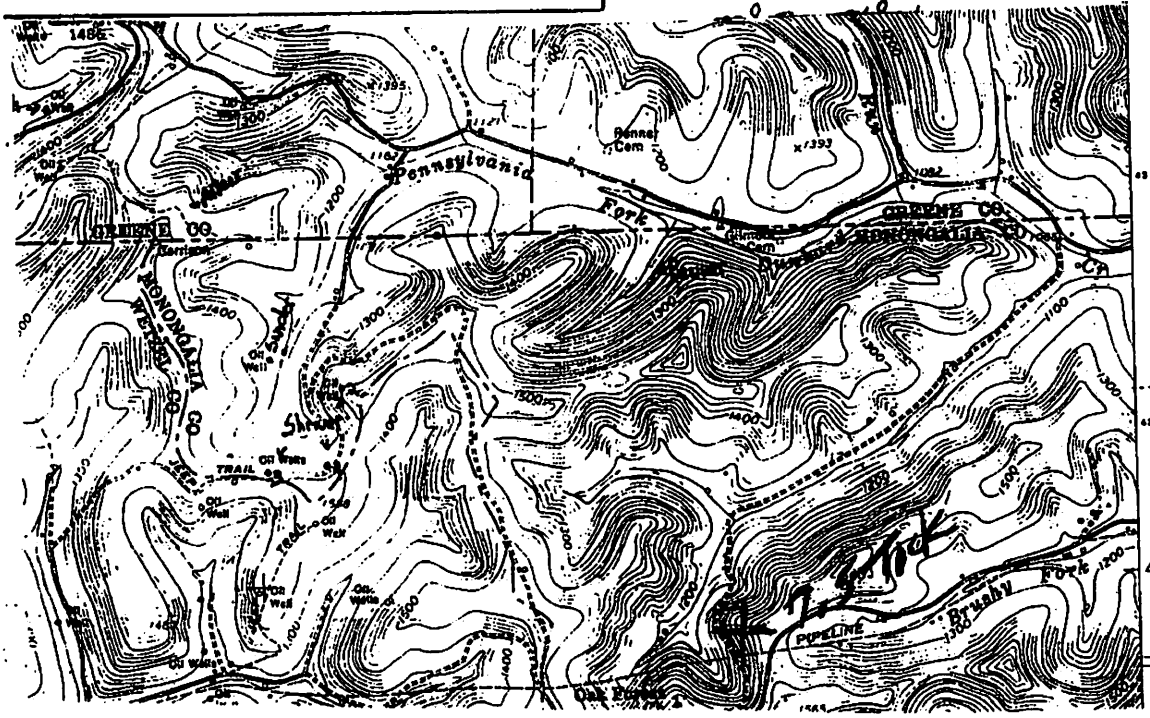
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6101154P

600'
39°45'

1) Attach a photo copy of the location of the well on a 7.5 minute Quadrangle with the corresponding longitude and Latitude.
2) Designate the location of the well with the symbol (+).



80°22'30"

05801

I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief.

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Office of Environmental Protection

SIGNED [Signature]
TITLE President

Well Name: A.R. Renuer

JUN 26 93
Permitting
Office of Oil & Gas

DATE 1/15, 1993
OPERATORS WELL NO. 1
API WELL NO. 47-061-1154-N

18930
2894
Permitting
Office of Oil & Gas

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION

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WV Department of Environmental Protection

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

LOCATION: ELEVATION 1180 est WATER SHED Dunkard Creek
DISTRICT Hoffelle COUNTY Morgan
QUADRANGLE 25X42-30

FACE OWNER Hundred ACREAGE 4.3
GAS ROYALTY OWNER _____ LEASE ACREAGE 30
LEASE NO. _____

PRODUCING FORMATION 4th Sand TOTAL DEPTH 3213

LAND OPERATOR Greendale Oil Co DESIGNATED AGENT John Lavelle
ADDRESS R.D. #1 Box 2676 ADDRESS RD 1 Box 72
New Freeport PA. 15352 Knob Fork, WV 26577

08/04/2017

6101154P

WW-4A
Revised 6-07

1) Date: _____
2) Operator's Well Number
1 _____
3) API Well No.: 47 - 061 - 01154

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

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Office of Oil and Gas
JUL 13 2017

| | | |
|--|---|--|
| <p>4) Surface Owner(s) to be served:</p> <p>(a) Name <u>SHIPMAN R ALLAN</u> Address <u>106 RENNER CREEK RD</u> <u>NEW FREEPORT PA 15352</u></p> <p>(b) Name _____ Address _____</p> <p>(c) Name _____ Address _____</p> <p>6) Inspector <u>Gayne J Knitowski</u> Address <u>P.O. Box 108</u> <u>Gormanian WV 26720</u> Telephone <u>304-546-8171</u></p> | <p>5) (a) Coal Operator</p> <p>Name <u>N/A</u> Address _____</p> <p>(b) Coal Owner(s) with Declaration</p> <p>Name <u>Consol Mining Company LLC</u> Address <u>1000 Consol Energy Drive</u> <u>Canonsburg, PA 15317</u></p> <p>Name <u>Indigo-Energy, Inc.</u> Address <u>701 North Greene Valley Parkway Suite 200</u> <u>Henderson, Nevada 89074</u></p> <p>(c) Coal Lessee with Declaration</p> <p>Name <u>N/A</u> Address _____</p> | <p>WV Department of Environmental Protection</p> |
|--|---|--|

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 *[Signature]*
 Its: General Manager
 Address 1000 Consol Energy Drive
Canonsburg, PA 15370
 Telephone (724) 485-4081

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

Subscribed and sworn before me this 13th day of June 2017
[Signature] 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 depprivacyoffier@wv.gov.

08/04/2017

61 01154P

WW-9
(5/16)

API Number 47 - 061 - 01154
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) PA Fork Dunkard 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: _____

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

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 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

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

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-If oil based, what type? Synthetic, petroleum, etc. _____ **JUL 13 2017**

Additives to be used in drilling medium? na

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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 Gerald W. Ramsburg

Company Official (Typed Name) Gerald Ramsburg

Company Official Title General Manager

Subscribed and sworn before me this 13th 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

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 |
|----------------|----------|
| 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: [Signature]

Comments: Reclam plugged well site ASAP

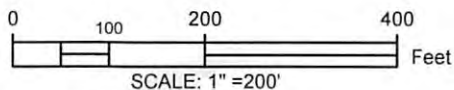
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Title: Inspector Date: 7/6/2017

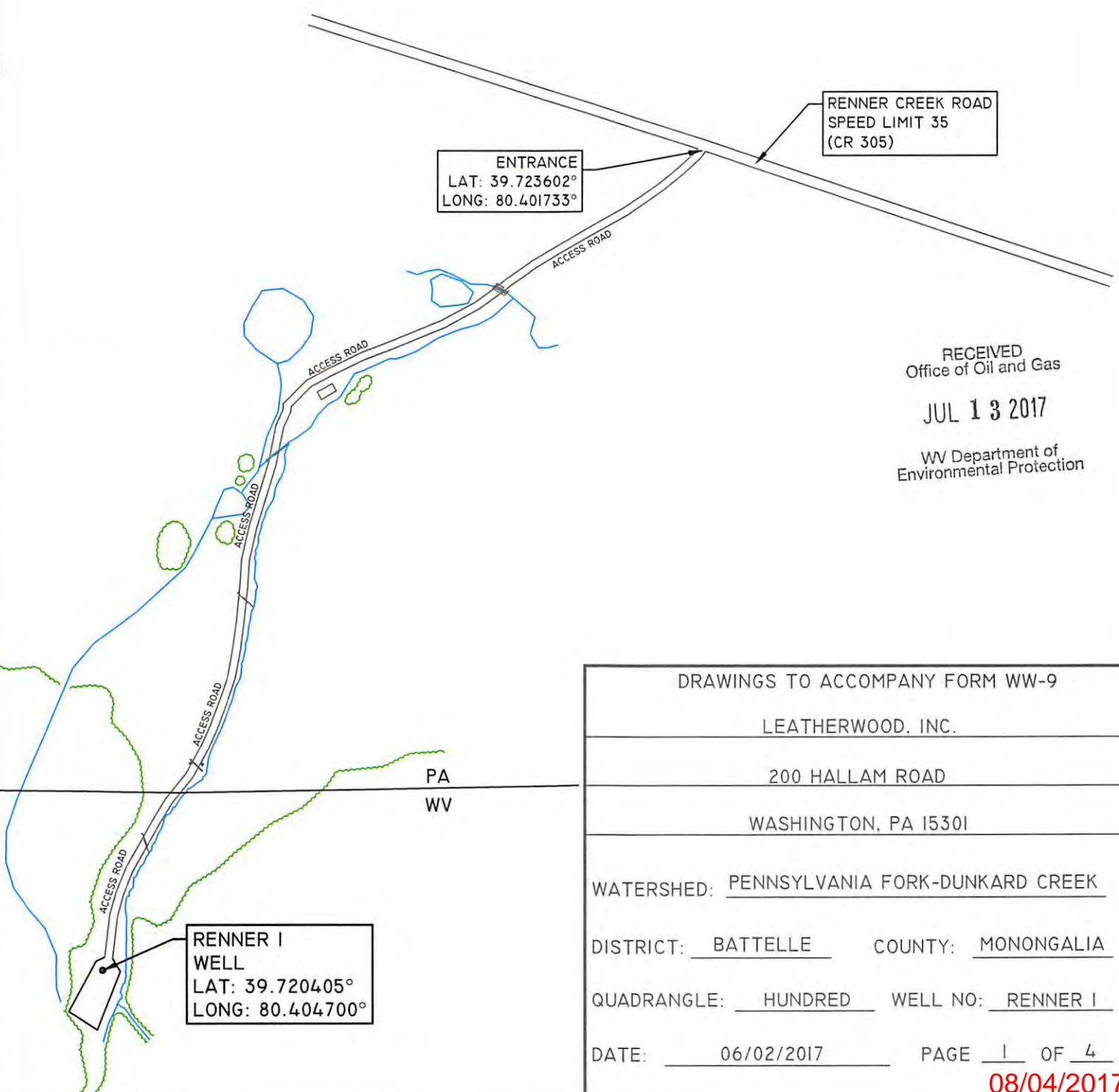
Field Reviewed? (X) Yes () No



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



RENNER CREEK ROAD
SPEED LIMIT 35
(CR 305)

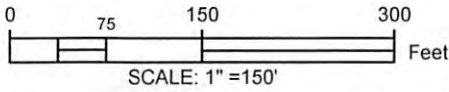
ENTRANCE
LAT: 39.723602°
LONG: 80.401733°

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JUL 13 2017
WV Department of
Environmental Protection

PA
WV

RENNER I
WELL
LAT: 39.720405°
LONG: 80.404700°

| | |
|---|---------------------------|
| DRAWINGS TO ACCOMPANY FORM WW-9 | |
| LEATHERWOOD, INC. | |
| 200 HALLAM ROAD | |
| WASHINGTON, PA 15301 | |
| WATERSHED: <u>PENNSYLVANIA FORK-DUNKARD CREEK</u> | |
| DISTRICT: <u>BATTELLE</u> | COUNTY: <u>MONONGALIA</u> |
| QUADRANGLE: <u>HUNDRED</u> | WELL NO: <u>RENNER I</u> |
| DATE: <u>06/02/2017</u> | PAGE <u>1</u> OF <u>4</u> |
| 08/04/2017 | |



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

SIGHT DISTANCE LIMIT
SPEED LIMIT: 35 MPH
REQUIRED DISTANCE - 287.0'
MEASURE DISTANCE - 584.0'

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584.00'

RENNER CREEK ROAD
SPEED LIMIT 35
(CR 305)

ENTRANCE
LAT: 39.723602°
LONG: 80.401733°

600.00'

HABITAT 2

S-5
PERENNIAL STREAM

SIGHT DISTANCE LIMIT
SPEED LIMIT: 35 MPH
REQUIRED DISTANCE - 287.0'
MEASURE DISTANCE - 600.0'

EXG 36" STEEL CULVERTS

EXG SHED

DRAWINGS TO ACCOMPANY FORM WW-9

LEATHERWOOD, INC.

200 HALLAM ROAD

WASHINGTON, PA 15301

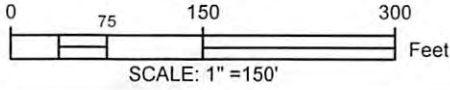
WATERSHED: PENNSYLVANIA FORK-DUNKARD CREEK

DISTRICT: BATTELLE COUNTY: MONONGALIA

QUADRANGLE: HUNDRED WELL NO: RENNER I

DATE: 06/02/2017 PAGE 2 OF 4

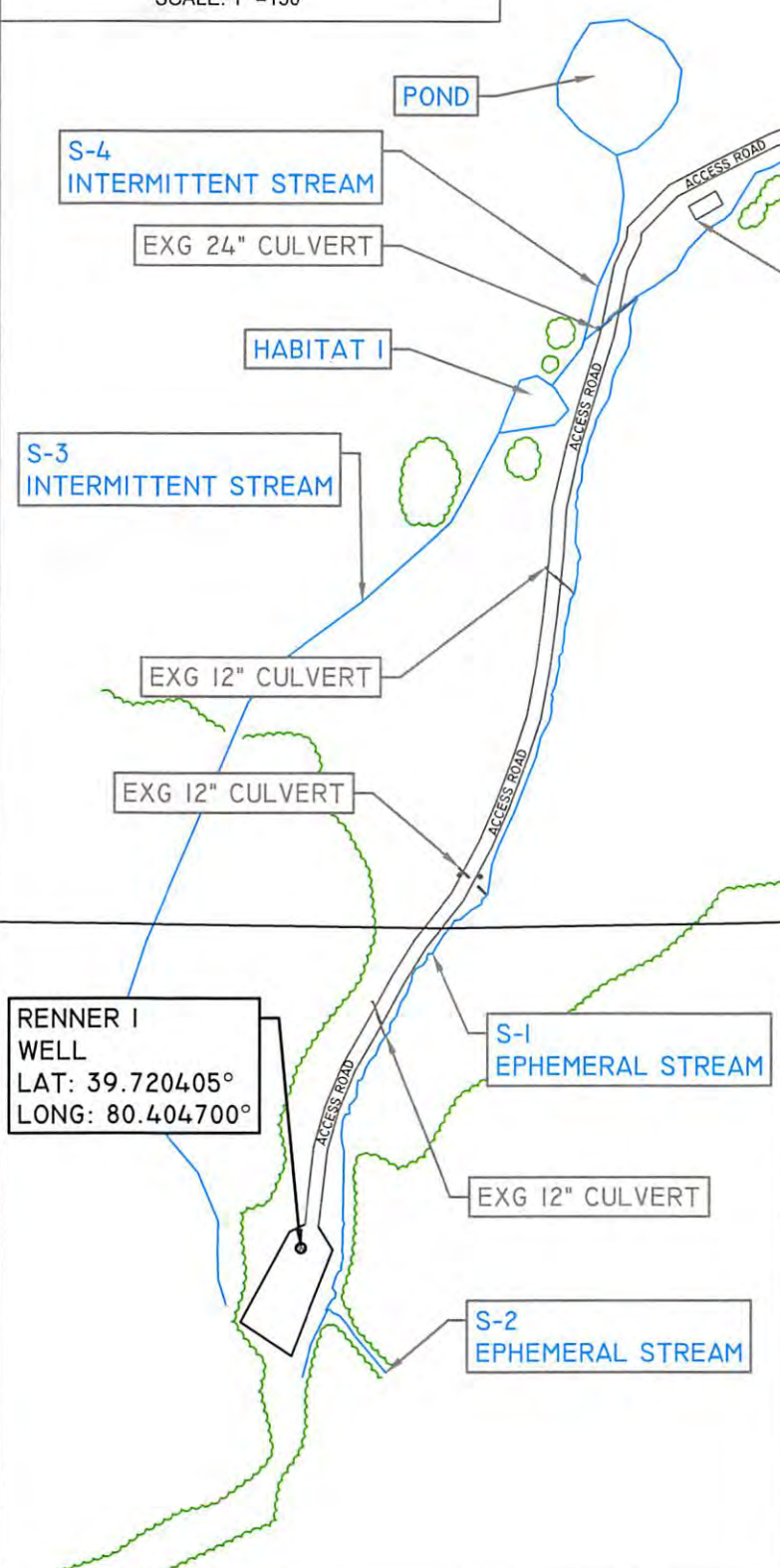
08/04/2017



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LEGEND

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

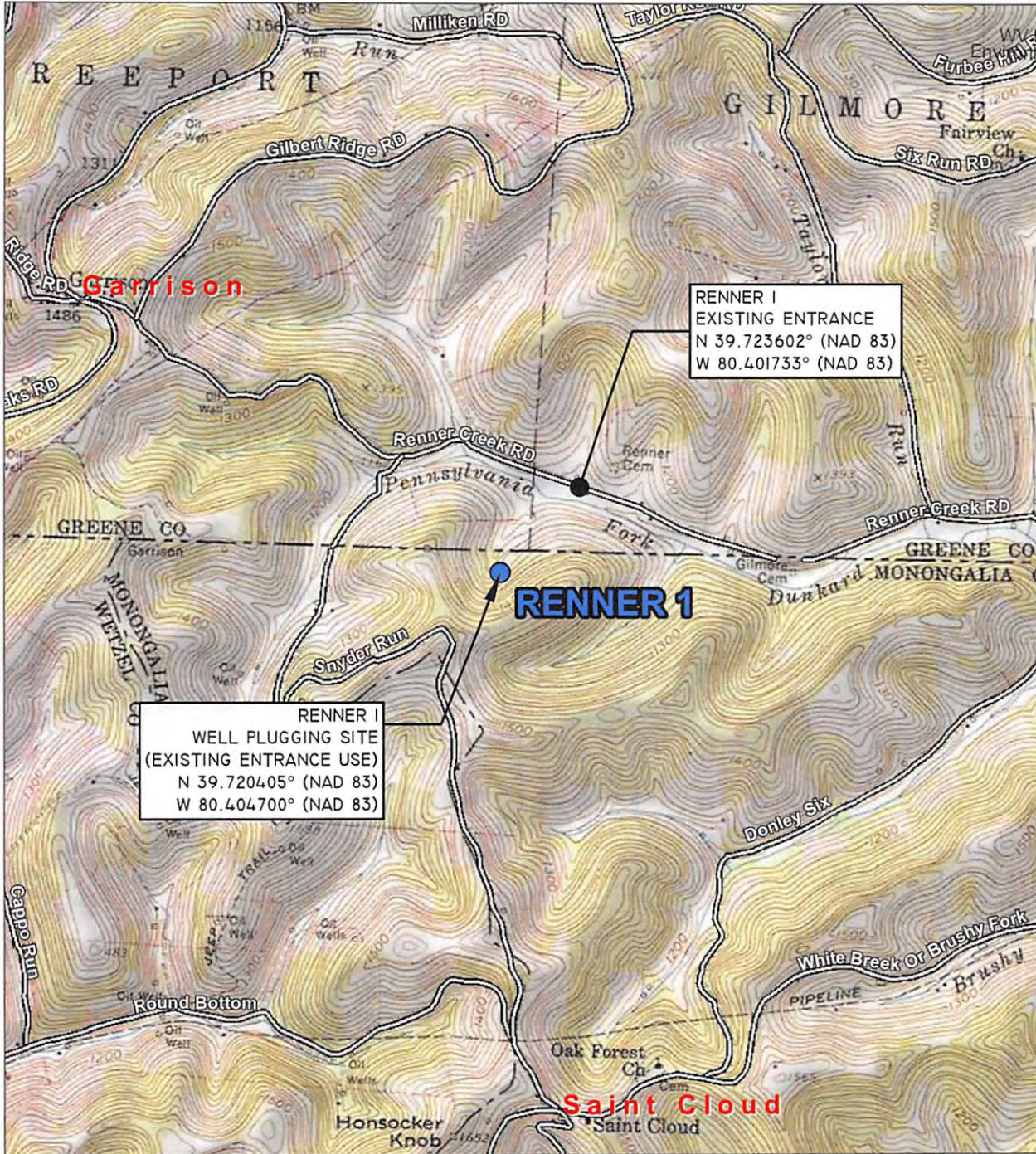


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WV Department of
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RENNER I
WELL
LAT: 39.720405°
LONG: 80.404700°

| | |
|---|---------------------------|
| DRAWINGS TO ACCOMPANY FORM WW-9 | |
| LEATHERWOOD, INC. | |
| 200 HALLAM ROAD | |
| WASHINGTON, PA 15301 | |
| WATERSHED: <u>PENNSYLVANIA FORK-DUNKARD CREEK</u> | |
| DISTRICT: <u>BATTELLE</u> | COUNTY: <u>MONONGALIA</u> |
| QUADRANGLE: <u>HUNDRED</u> | WELL NO: <u>RENNER I</u> |
| DATE: <u>06/02/2017</u> | PAGE <u>3</u> OF <u>4</u> |

08/04/2017



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
RENNER I GAS WELL
BATTELLE DISTRICT
MONONGALIA COUNTY, WV
LEATHERWOOD, INC.
200 HALLAM ROAD
WASHINGTON, PA 15301

| |
|---|
| DRAWN BY: LLF |
| CHECKED BY: WPF |
| DATE: 06/02/2017 |
| SCALE: 1"=2000' |
| WATERSHED: PENNSYLVANIA FORK-DUNKARD CREEK |
| PAGE 4 OF 4 |

6101154P

WW-7
8-30-06



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

API: 47-061-01154 WELL NO.: 1

FARM NAME: Renner

RESPONSIBLE PARTY NAME: Gerald Ramsburg

COUNTY: Monongalia DISTRICT: Battelle

QUADRANGLE: Hundred

SURFACE OWNER: SHIPMAN R ALLAN

ROYALTY OWNER: _____

UTM GPS NORTHING: 4,396,895.043 METERS

UTM GPS EASTING: 551,021.441 METERS GPS ELEVATION: 376.763 METERS (236')

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

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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

General Manager
Title

6/13/17
Date

08/04/2017