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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

Earl Ray Tomblin , Governor  
Randy C. Huffman , Cabinet Secretary  
www.dep.wv.gov

Monday, October 03, 2016  
WELL WORK PERMIT  
Vertical / Plugging

CUNNINGHAM ENERGY, LLC  
3230 PENNSYLVANIA AVENUE

CHARLESTON, WV 25302

Re: Permit approval for STUMP 1  
47-039-06384-00-00

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: STUMP 1  
Farm Name: HUFFMAN, PEARL & MAYFORD  
U.S. WELL NUMBER: 47-039-06384-00-00  
Vertical / Plugging  
Date Issued: 10/3/2016

Promoting a healthy environment.

10/07/2016

## 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.

Issue  
10/03/16

4703906384P

1) Date AUGUST 26, 2016  
2) Operator's  
Well No. STUMP#1  
3) API Well No. 47-039-06384

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

5) Location: Elevation 989' Watershed TRIBUTARY OF BIG SANDY  
District BIG SANDY County KANAWHA Quadrangle CLIO 7.5'

6) Well Operator Cunningham Energy, LLC 7) Designated Agent Ryan Cunningham  
Address 3230 Pennsylvania Ave. Address 3230 Pennsylvania Ave  
Charleston, WV 25302 Charleston, WV 25302

8) Oil and Gas Inspector to be notified Name TERRY URBAN  
Address P.O. BOX 1207  
CLENDENIN, WV 25045  
9) Plugging Contractor Name CUNNINGHAM ENERGY, LLC  
Address 3230 PENNSYLVANIA AVE.  
CHARLESTON, WV 25302

10) Work Order: The work order for the manner of plugging this well is as follows:  
**PULL ALL PUMPS/TUBING/RODS. RIG UP AND PULL ALL PRODUCTION CASING. TRIP TUBING TO TD, FILL HOLE WITH GEL, SET SOLID PLUG FROM TD TO SURFACE. SET MONUMENT WITH API.**

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

Work order approved by inspector  Date 9-15-16 2016

RECEIVED  
Office of Oil and Gas  
WV Department of Environmental Protection  
10/07/2016

STATE OF WEST VIRGINIA - DEPARTMENT OF ENVIRONMENTAL PROTECTION

SPECIAL NOTICE OF PLUGGING OF AN ABANDONED OIL OR GAS WELL BY AN INTERESTED PARTY WHO IS NOT THE OWNER OR OPERATOR OF THE WELL.

(Page 1 of 2)

ABANDONED WELL TO BE PLUGGED:

API Well No: 47-039 -

Elevation: ~~989'~~ 915' Watershed: TRIBUTARY OF BIG SANDY CREEK

District: BIG SANDY County: KANAWHA

Public Road access: DOCTOR'S CREEK ROAD

Generally used Farm Name: I.C. & L.C. STUMP

Other description of location: N: -4260990 E: -468280

NOTICE TO:

[List any owners of the surface of the land upon which such abandoned well exists and their address or their location for service.]

PEARL & MAYFORD HUFFMAN

[List any owner or operator of such abandoned well of record with the Secretary of the Department of Environmental Protection their address or their location for service]

NO INFORMATION AVAILABLE

[List any oil or gas lessee of record with the Secretary of the Department of Environmental Protection and their address or location for service:]

BLUE GROUP ENERGY, LLC, 3614 CLAY ROAD, SPENCER, WV 25276

NOTICE FROM:

Interested Party Proposing to Plug Well

Name: CUNNINGHAM ENERGY, LLC

Address: 3230 PENNSYLVANIA AVENUE

CHARLESTON, WV 25302

Telephone: 304-344-9291

RECEIVED  
Office of Oil and Gas  
SEP 22 2010

DOES THE INTERESTED PARTY ELECT TO TAKE THE CASING, EQUIPMENT, AND OTHER SALVAGE WHICH MAY RESULT FROM THE PLUGGING OF THE WELL? [xxx] YES [ ] NO

If the interested party has checked "no" then the surface owners may elect to take any casing, equipment or other salvage by sending a notice to the interested party at the address listed above. The interested party must then leave the salvage at a location which will not adversely affect reclamation. If the surface owners do not elect to take the salvage, the interested party must properly dispose of the salvage.

[Service of this notice may be by certified mail return receipt requested (file the return receipt card with the Department of Environmental Protection DEP), personal service (file form WW-70 with the DEP) or by such manner as is sufficient for service of process in a civil action in court (with corresponding proof of service to be filed with the DEP). In the event there is no owner or operator of record with the Chief or no oil and gas lessee of record with the Chief, this notice must be posted in a conspicuous place at or near the well. Service and posting must be done at least 20 days prior to entering onto the surface to began plugging.] 10/07/2016

STATE OF WEST VIRGINIA - DEPARTMENT OF ENVIRONMENTAL PROTECTION

SPECIAL NOTICE OF PLUGGING OF ABANDONED OIL OR GAS WELL BY AN INTERESTED PARTY

(Page 2 of 2)

NOTICE INFORMATION FOR SURFACE OWNERS, WELL OWNERS AND OPERATORS, AND OIL AND GAS LESSEES

It is lawful pursuant to The West Virginia Abandoned Well Act (W.Va. Code 22-6-1 et seq.) and the rules and regulations promulgated pursuant to that law (all of which will be called the "Act" in the rest of this notice) for any interested person, the operator of a well, or the Chief of the Department of Environmental Protection (Chief) to enter upon the premises where any abandoned well is situated and properly plug or replug the well and reclaim any area disturbed by the plugging or replugging. A permit to do the plugging or replugging must be obtained from the West Virginia Department of Environmental Protection.

You are hereby notified that the party proposing to plug the oil or gas well identified on the reverse side of this notice is claiming to be an "interested party" in the plugging of that well as that term is defined by the Act. This interested party is claiming that well is "abandoned" within the meaning of W. Va. Code 22-6-19 because it is a dry hole or because it has not been in "use" for a period of 12 months and no satisfactory proof of a "bona fide" future use" for the well has been furnished to the Director.

ADDITIONAL NOTICE INFORMATION FOR SURFACE OWNERS

Any interested person who plugs a well pursuant to the provision of the Act must repair the damage or disturbance resulting from the plugging or compensate the surface owners for the damage or disturbance. This requirement of the Act is in addition to any rights and remedies any party may have pursuant to common law or other statutes. The compensation provided by the Act if the interested party does not fully repair the damage or disturbance is (i) the reasonable cost of repairing or placing any water well, (ii) the reasonable value of any crops destroyed, damaged or prevented from reaching market, (iii) the reasonable cost of repair to personal property up to the value of the replacement value of personal property of like age, wear and quality, (iv) lost income or expense incurred, and (v) reasonable costs to reclaim or repair real property including roads.

When the interested person is finished with the reclamation, the interested person must send the surface owners a letter advising that the reclamation has been completed. If the surface owners do not agree with the interested party that as to the adequacy of the repairs performed or the amount of compensation to which the surface owners may be entitled, either party may bring a civil action in court. In addition either party upon written notice to the other may elect to have that issue finally determined by binding arbitration pursuant to W. Va. Code 55-10-1 et seq. For materials further explaining the arbitration process please contact the Chief.

ADDITIONAL NOTICE INFORMATION FOR OWNERS OR OPERATORS OF WELLS

In the event the owner or operator of a well fails or has failed to plug an abandoned well in accordance with laws and regulations in effect at the time the well is or was first subject to plugging requirements, any interested persons who plugs or replugs such well pursuant to the provisions of this section may recover from the owner or operator of such well all reasonable costs incidental to such plugging or replugging, including any compensation provided for in this section. In the event funds from the oil and gas reclamation fund established pursuant to section twenty-nine, article one of this chapter are used to plug or replug such well, the Secretary shall be entitled to recover from the owner or operator of such well any amounts so expended from the fund. Any amounts so recovered by the Chief shall be deposited in said fund.

RECEIVED  
Office of Oil and Gas

SEP 22 2016

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).

WV Department of  
Environmental Protection

10/07/2016

State of West Virginia

Department of Environmental Protection

This is to acknowledge that the well: API no. \_\_\_\_\_

District **BIG SANDY**

Well No **STUMP** Farm name **I.C. & L.C. STUMP**

Is hereby transferred To:

The transferee Company: **CUNNINGHAM ENERGY, LLC**

Code # **494508594** Address **3230 PENNSYLVANIA AVE, CHARLESTON, WV 25302**

Transfer approval and responsibility for any noncompliance matter not resolved in this document will be addressed in the thirty day circular that will be issued after review of your application for transfer, or as otherwise set forth by agreement with the Chief.

The transferee has registered and designated an agent on form OP-1, which is on file with the Office of Oil and Gas. The agent is:

Designated agent (name) **RYAN E. M. CUNNINGHAM**

Address: **1212 STAUNTON ROAD, CHARLESTON, WV 25302**

The transferee has bonded the said well by ( check one ):

Securities  Cash  Surety bond  Letter of credit

Identified by:

|                    |                         |                  |                   |
|--------------------|-------------------------|------------------|-------------------|
| Amount:            | <b>\$50,000.00</b>      | Effective date : | <b>12/30/2013</b> |
| Issuing authority: | <b>CLAY COUNTY BANK</b> | Id. No:          | <b>102134</b>     |

Transferee: **CUNNINGHAM ENERGY, LLC**

By: \_\_\_\_\_

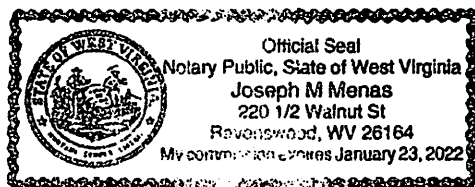
Its: **RYAN E. M. CUNNINGHAM/PRESIDENT**

Taken, subscribed and sworn before me this 8<sup>th</sup> day of SEPT. 2016

Notary Public \_\_\_\_\_

My Commission Expires January 23, 2022

Office of Oil and Gas  
SEP 22 2016



WW-4A  
Revised 6-07

1) Date: AUGUST 26, 2016

2) Operator's Well Number \_\_\_\_\_

3) API Well No.: 47 - 039 - \_\_\_\_\_

**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>PEARL &amp; MAYFORD HUFFMAN</u> | Name _____                         |
| Address <u>405 54TH STREET, SE</u>          | Address _____                      |
| <u>CHARLESTON, WV 25304</u>                 | _____                              |
| (b) Name _____                              | (b) Coal Owner(s) with Declaration |
| Address <u>SEE ADDENDUM</u>                 | Name _____                         |
| _____                                       | Address _____                      |
| (c) Name _____                              | Name _____                         |
| Address _____                               | Address _____                      |
| 6) Inspector <u>TERRY URBAN</u>             | (c) Coal Lessee with Declaration   |
| Address <u>P.O. BOX 1207</u>                | Name _____                         |
| <u>CLENDENIN, WV 25045</u>                  | Address _____                      |
| Telephone <u>304-5495915</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 CUNNINGHAM ENERGY, LLC  
 By: RYAN CUNNINGHAM  
 Its: MEMBER  
 Address 3230 PENNSYLVANIA AVENUE  
CHARLESTON, WV 25302  
 Telephone 304-344-9291

Subscribed and sworn before me this 8th day of SEPTEMBER, 2016


My Commission Expires January 23, 2022



**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).

WW-4A – ADDENDUM

API – 47-3906384   
STUMP #1

Additional Surface Owners Notified:

DANIEL & LAURA BODKINS  
P.O. BOX 847  
CLENDENIN, WV 25045

We will be crossing the Bodkins' property to regain access to the Stump lease for plugging purposes.

MIKE ROSS, INC.  
P.O. BOX 219  
COALTON, WV 25257-0219

WACO OIL & GAS, INC.  
1595 US HWY 33 E  
GLENVILLE, WV 26351-1098

Notified in error – Both Mike Ross, Inc. and Waco Oil & Gas, Inc. only own mineral on the tracts we will be crossing to regain access to the Stump lease for plugging purposes.

RECEIVED  
Office of Oil and Gas

OCT 3 2016

WV Department of  
Environmental Protection

10/07/2016



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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name \_\_\_\_\_ OP Code 494508594

Watershed (HUC 10) TRIBUTARY OF BIG SANDY CREEK Quadrangle CLIO 7.5'

Elevation 989' County KANAWHA District CLIO 7.5'

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes \_\_\_\_\_ No X

Will a pit be used for drill cuttings? Yes \_\_\_\_\_ No X

If so, please describe anticipated pit waste: PRODUCED WATER / OIL / CEMENT

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

Proposed Disposal Method For Treated Pit Wastes:

- \_\_\_\_\_ Land Application
- Underground Injection ( UIC Permit Number 39-2210 UIC )
- \_\_\_\_\_ Reuse (at API Number \_\_\_\_\_)
- \_\_\_\_\_ Off Site Disposal (Supply form WW-9 for disposal location)
- \_\_\_\_\_ Other (Explain \_\_\_\_\_)

Will closed loop system be used? NO PIT WILL BE USED - ALL FLUIDS WILL BE PUT INTO A FLOWBACK TANK

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. N/A

-If oil based, what type? Synthetic, petroleum, etc. N/A

Additives to be used in drilling medium? N/A

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. N/A

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

-Landfill or offsite name/permit number? N/A

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, 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 \_\_\_\_\_

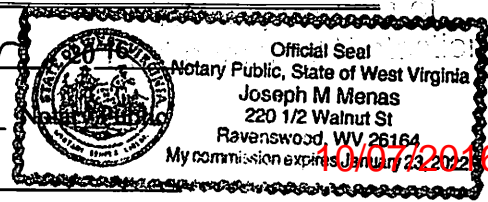
Company Official (Typed Name) RYAN E. M. CUNNINGHAM

Company Official Title MEMBER

RECEIVED  
Office of Oil and Gas  
SEP 29 2015

Subscribed and sworn before me this 8<sup>th</sup> day of ~~AUGUST~~ September

My commission expires January 23, 2022



Proposed Revegetation Treatment: Acres Disturbed 3 Prevegetation pH \_\_\_\_\_

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type \_\_\_\_\_

Fertilizer amount 1/3 lbs/acre

Mulch HAY - 2 Tons/acre

Seed Mixtures

**Temporary**

**Permanent**

| Seed Type     | lbs/acre |
|---------------|----------|
| KY - 31       | 40       |
| ALSIKE CLOVER | 5        |
| ANNUAL RYE    | 15       |

| Seed Type     | lbs/acre |
|---------------|----------|
| ORCHARD RYE   | 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: [Signature]

Comments: Operator will maintain & keep existing roads up to existing standards

Title: Inspector D. L. Cox

Date: 08/26/2016 9-15-16

Field Reviewed?  Yes  No

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS  
GROUNDWATER PROTECTION PLAN

Operator Name: CUNNINGHAM ENERGY, LLC  
Watershed (HUC 10): TRIBUTARY OF BIG SANDY CREEK Quad: CLIO 7.5  
Farm Name: I.C. : L.C. Stump

1. List the procedures used for the treatment and discharge of fluids. Include a list of all operations that could contaminate the groundwater.

N/A - NO PIT

2. Describe procedures and equipment used to protect groundwater quality from the list of potential contaminant sources above.

N/A

3. List the closest water body, distance to closest water body, and distance from closest Well Head Protection Area to the discharge area.

N/A

4. Summarize all activities at your facility that are already regulated for groundwater protection.

N/A

5. Discuss any existing groundwater quality data for your facility or an adjacent property. *9-16-16*

N/A

6. Provide a statement that no waste material will be used for deicing or fill material on the property.

N/A

7. Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall provide direction on how to prevent groundwater contamination.

N/A

8. Provide provisions and frequency for inspections of all GPP elements and equipment.

N/A

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Office of Oil and Gas  
SEP 22 2016

Signature: \_\_\_\_\_

Date: 08/26/2016

*[Handwritten Signature]*  
9-16-16

WV Department of  
Environmental Protection

10/07/2016

Form W-9

# CUNNINGHAM ENERGY, LLC. Stump #1

Page 1 of 4

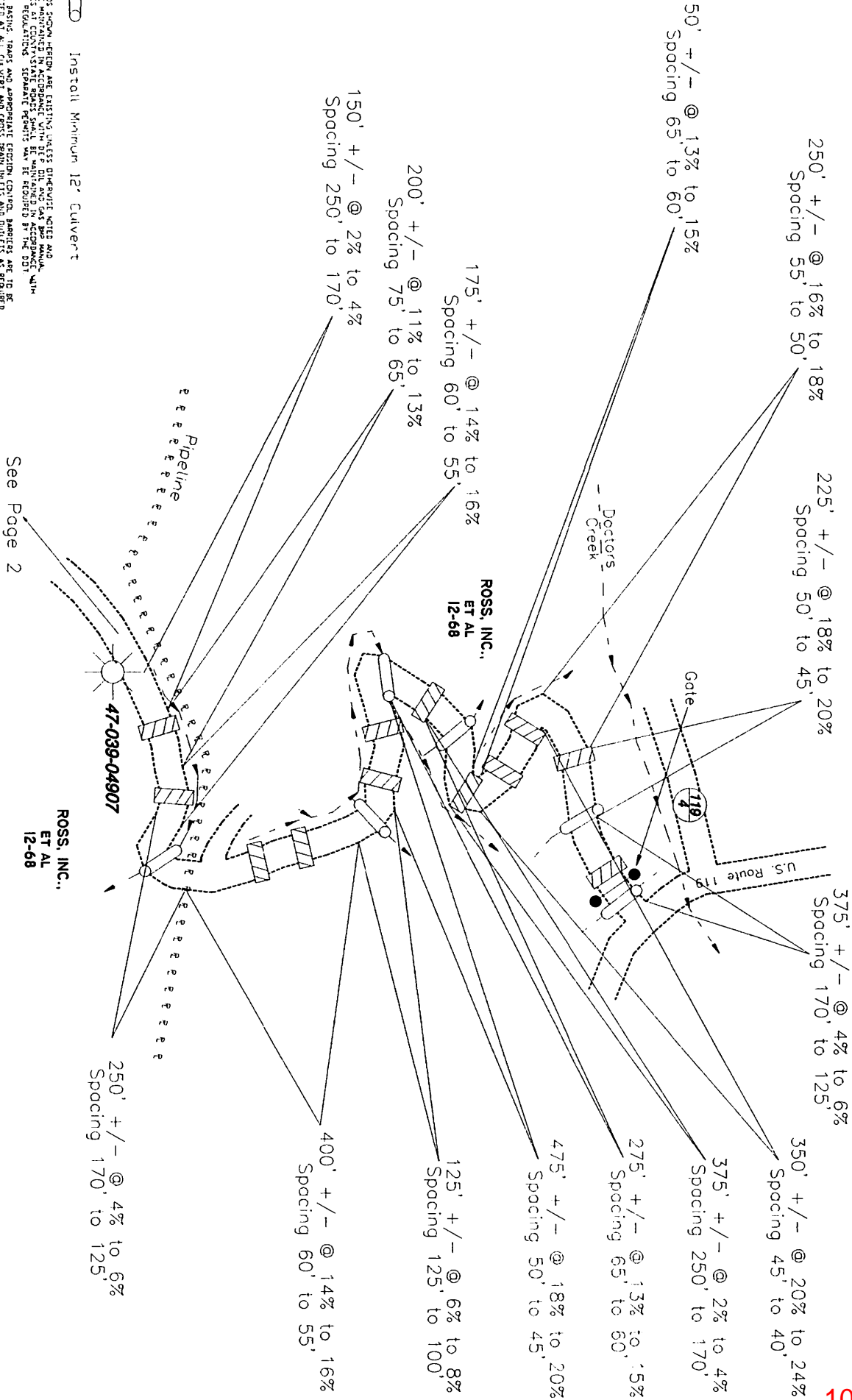
10/07/2016

Drawing Not To Scale NORTH

Install Minimum 12" Culvert

ALL ROAD SPREADS, EMBANKMENTS, AND EXISTING UTILITY DITCHES, DITCHES AND  
 ENTRANCES AT CONTIGUOUS STATE ROADS SHALL BE MAINTAINED IN ACCORDANCE WITH  
 WV DOT REGULATIONS. SEPARATE RECORDS MAY BE REQUIRED BY THE DOT.  
 SEDIMENT BASINS, TRAPS AND APPROPRIATE EROSION CONTROL MEASURES ARE TO BE  
 CONSTRUCTED UP THE SLOPE AND EROSION CONTROL MEASURES SHALL BE INSTALLED  
 AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. CONTRACTORS SHALL  
 REPORT ANY PROBLEMS THAT MAY BE ENCOUNTERED DURING THE CONSTRUCTION  
 PERIOD TO THE ENGINEER IMMEDIATELY. CONTRACTORS SHALL BE RESPONSIBLE FOR  
 MAINTAINING ALL EXISTING UTILITY DITCHES AND EROSION CONTROL MEASURES  
 THROUGHOUT THE CONSTRUCTION PERIOD. CONTRACTORS SHALL BE RESPONSIBLE FOR  
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 MAINTAINING ALL EXISTING UTILITY DITCHES AND EROSION CONTROL MEASURES  
 THROUGHOUT THE CONSTRUCTION PERIOD.

TEMPORARILY SEED AND MULCH ALL SLOPES AFTER CONSTRUCTION OF LOCATION,  
 CUT AND STACK ALL TIMBER ABOVE 6-INCHES IN DIAMETER AND THICKER  
 OVER AND STACK ALL TIMBER ABOVE 6-INCHES IN DIAMETER AND THICKER  
 STACK BELOW LOCATION FOR EROSION CONTROL.



See Page 2

## HUPP Surveying & Mapping

P.O. BOX 647 GRANTSVILLE, WV 26147  
 PH: (304) 354-7035 E-MAIL: hupp@frontiernet.net

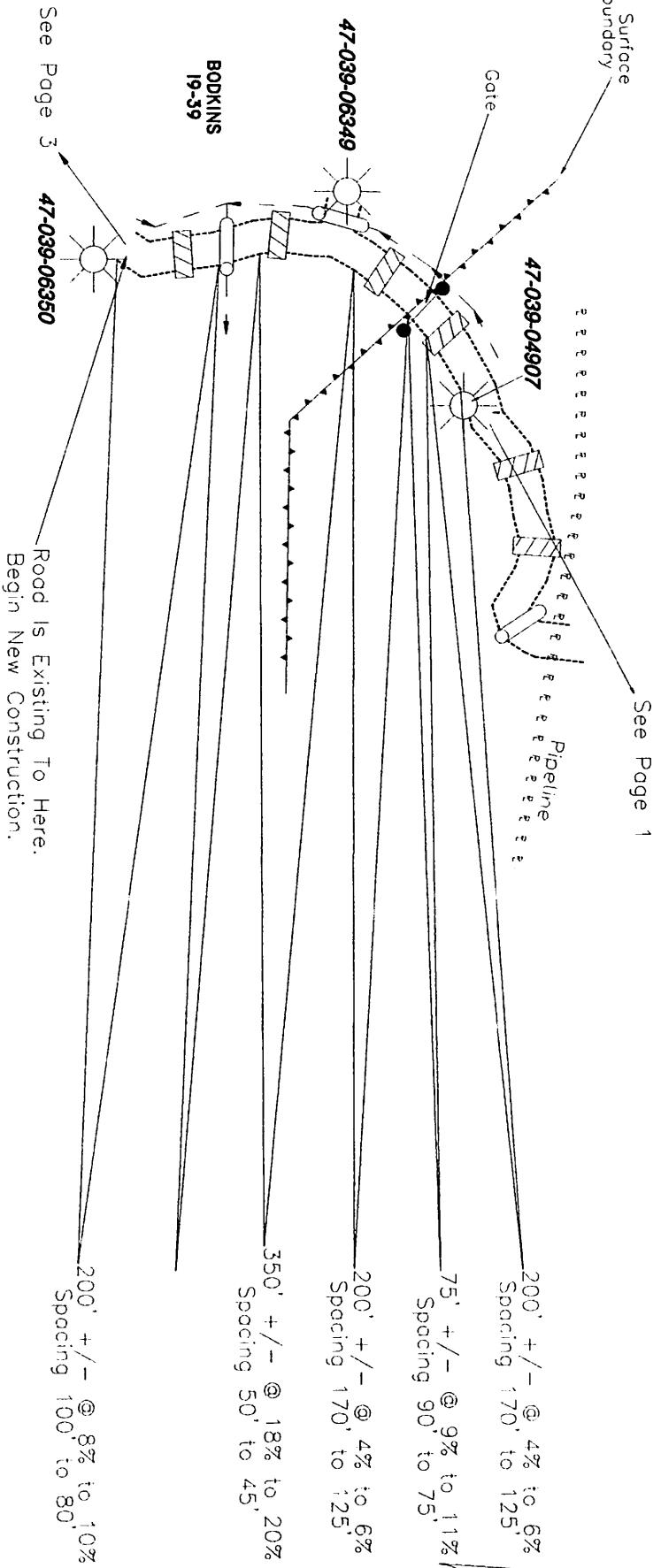
|             |               |             |
|-------------|---------------|-------------|
| Drafted BY: | Date Drafted: | Job Number: |
| DB          | 09/12/16      | W20162477   |

# CUNNINGHAM ENERGY, LLC.

## Stump #1

ROSS, INC.,  
ET AL  
12-68

4703906384P



Install Minimum 12" Culvert

ALL ROADS, BODKIN, ETC. ARE EXISTING UNLESS OTHERWISE NOTED AND SHALL BE MAINTAINED AS SUCH. ALL EXISTING UTILITY ENTRIES AT COORDINATE POINTS SHALL BE MAINTAINED IN ACCORDANCE WITH VDOT REGULATIONS. SEPARATE PERMITS MAY BE REQUIRED BY THE VDOT.

SEWAGE BASINS, TRAPS AND APPROPRIATE EROSION CONTROL BARRIERS ARE TO BE CONSTRUCTED AT ALL CULVERT AND GROSS SPAN INLETS AND OUTLETS AS REQUIRED BY THE VDOT. ALL EROSION CONTROL MEASURES SHALL BE EVALUATED AND UTILIZED BEFORE ANY PROPOSED TRAP OR TRAP BENCH IS INSTALLED. WHEN THESE CONDITIONS EXIST, ADDITIONAL EROSION CONTROL MEASURES SHALL BE EVALUATED AND UTILIZED.

EARTHWORK CONTRACTORS ARE RESPONSIBLE FOR NOTIFYING TO THE OPERATOR AND INSPECTOR PRIOR TO ANY ELEVATION FROM THIS PLAN.

CONTRACTORS/COMPANY ARE RESPONSIBLE FOR LOCATING UTILITIES UNDERGROUND ON THIS PLAN OR NOT.

TEMPORARILY, SLEDS AND MACHINERY SHALL BE REMOVED AFTER CONSTRUCTION OF LOCATION CUT AND STACK ALL TIMBER ABOVE 6-INCHES IN DIAMETER AND THICKER.

STACK BEHIND TRUCK LOCATION FOR STEWART CONTROL.

**HUPP Surveying & Mapping**

P.O. BOX 647 GRANTSVILLE, WV 26147  
PH: (304) 354-7035 E-MAIL: hupp@frontiernet.net

Drafted BY: DB

Date Drafted: 09/12/16

Job Number: W20162477

Form W-9

**CUNNINGHAM ENERGY, LLC.**  
**Stump #1**

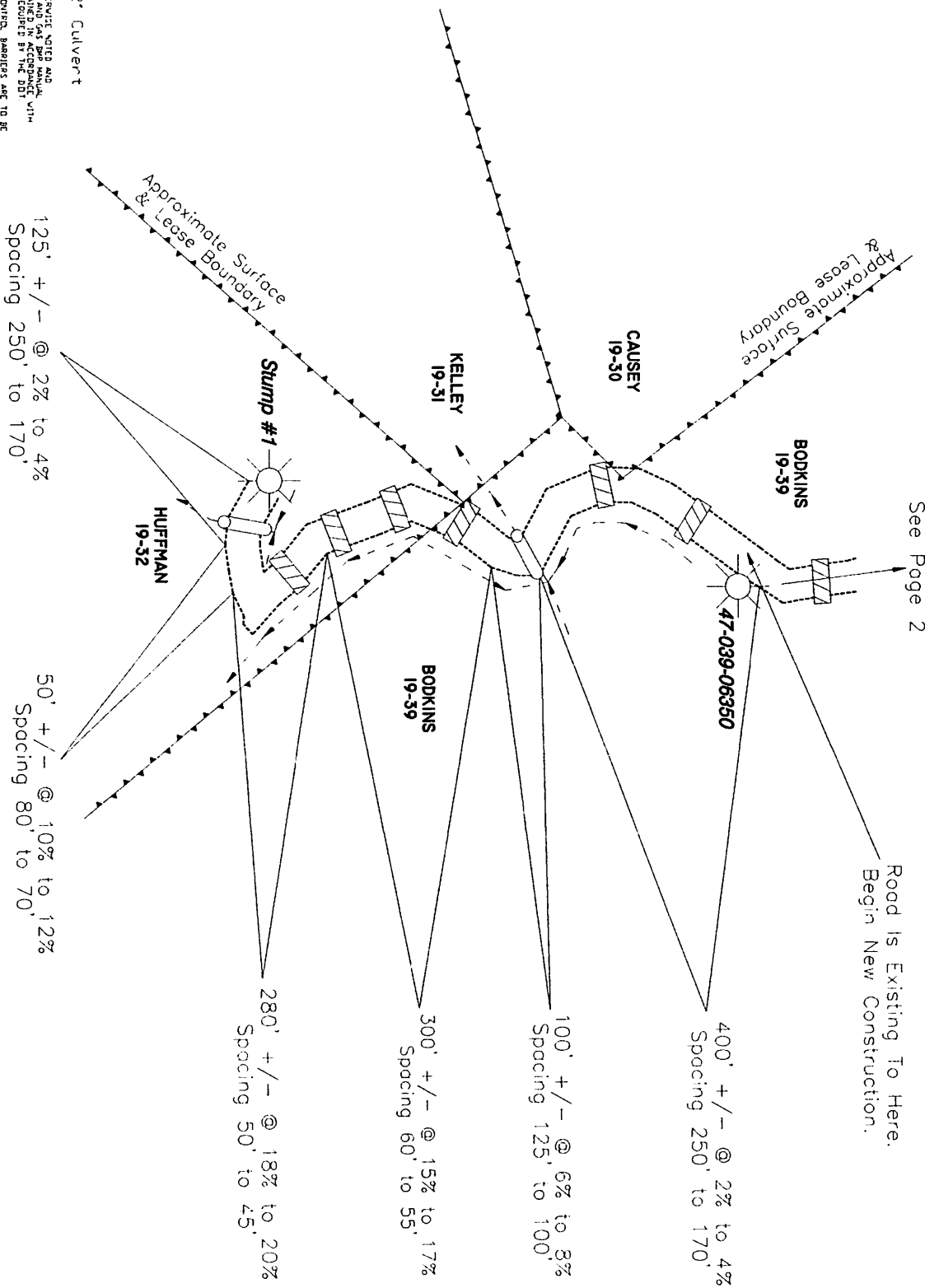
Page 3 of 4

○ Install Minimum 12" Culvert

ALL ROAD, DRAINAGE, AND UTILITY UTILITIES SHOULD BE MAINTAINED IN ACCORDANCE WITH THIS PLAN AND ALL OTHER UTILITIES SHOULD BE MAINTAINED IN ACCORDANCE WITH THE DDT. SEPARATE RECORDS SHALL BE MAINTAINED IN ACCORDANCE WITH THE DDT. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING UTILITIES WHICH ARE NOT SHOWN ON THIS PLAN OR NOT INDICATED BY THE CONTRACTOR. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING UTILITIES WHICH ARE NOT SHOWN ON THIS PLAN OR NOT INDICATED BY THE CONTRACTOR. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING UTILITIES WHICH ARE NOT SHOWN ON THIS PLAN OR NOT INDICATED BY THE CONTRACTOR.

HUPP Surveying & Mapping  
P.O. BOX 647 GRANTSVILLE, WV 26147  
PH: (304) 354-7035 E-MAIL: hupp@frontiernet.net

Drafted BY: DB  
Date Drafted: 09/12/16  
Job Number: W20162477



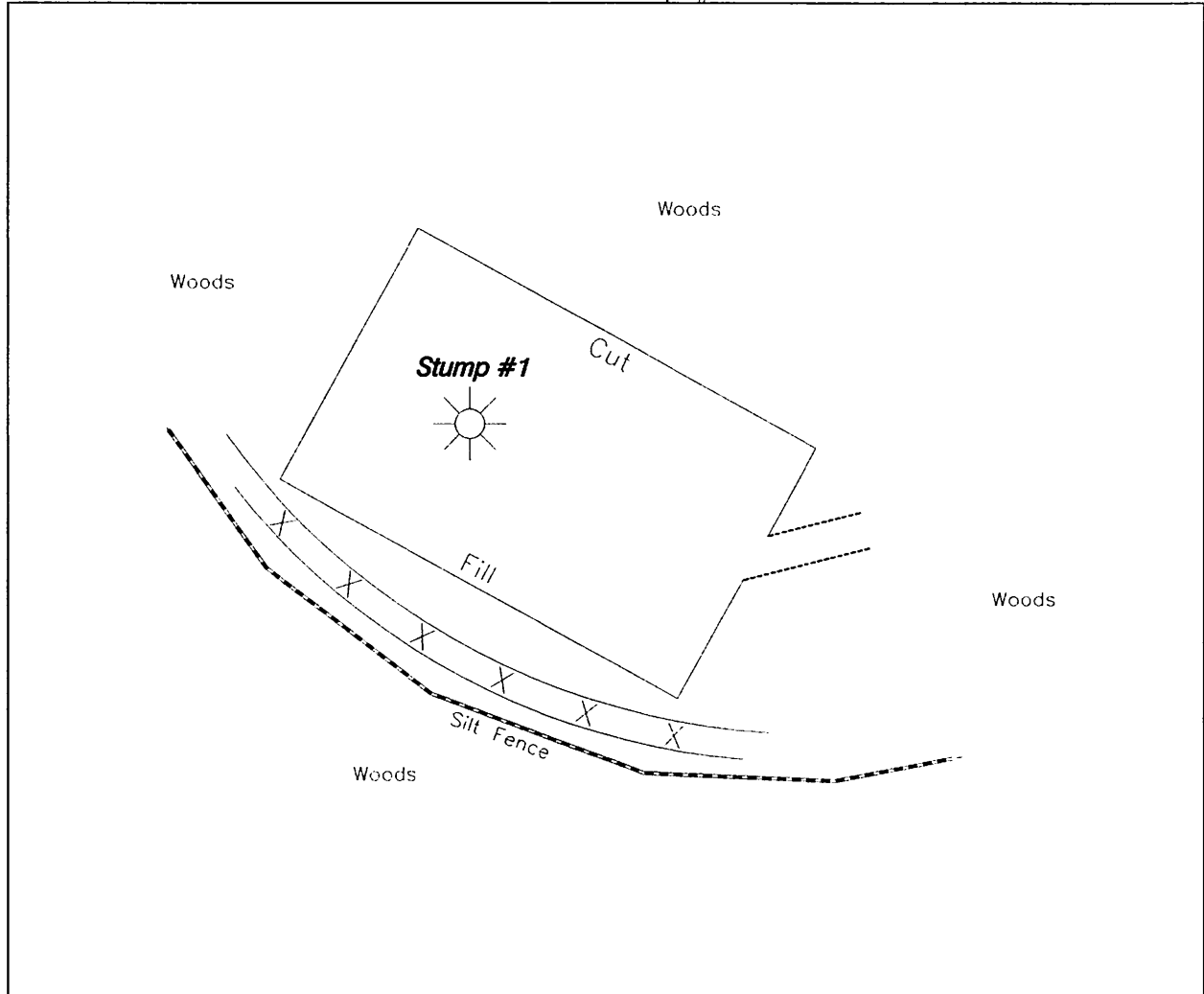
# CUNNINGHAM ENERGY, LLC.

Form W-9


## Stump #1

Page 4 of 4

Sketch for Stump #1



Drawing Not To Scale NORTH

 install Minimum 12" Culvert

ALL ROADS SHOWN HEREON ARE EXISTING UNLESS OTHERWISE NOTED AND SHALL BE MAINTAINED IN ACCORDANCE WITH D.E.P. OIL AND GAS BMP MANUAL. ENTRANCES AT COUNTY/STATE ROADS SHALL BE MAINTAINED IN ACCORDANCE WITH WV D.O.T. REGULATIONS. SEPARATE PERMITS MAY BE REQUIRED BY THE D.O.T.

SEDIMENT BASINS, TRAPS AND APPROPRIATE EROSION CONTROL BARRIERS ARE TO BE CONSTRUCTED AT ALL CULVERT AND CROSS DRAIN INLETS AND OUTLETS AS REQUIRED IN THE WV D.E.P. OIL AND GAS BMP MANUAL. FIELD CONDITIONS (ROCK OUTCROPS AND BEDROCK) MAY PROHIBIT INLET TRAPS BEING INSTALLED. WHEN THESE CONDITIONS EXIST, ADDITIONAL EROSION CONTROL MEASURES SHALL BE EVALUATED AND UTILIZED.

EARTHWORK CONTRACTORS ARE RESPONSIBLE FOR NOTIFYING TO THE OPERATOR AND INSPECTOR PRIOR TO ANY DEVIATION FROM THIS PLAN.

CONTRACTORS/COMPANY ARE RESPONSIBLE FOR LOCATING UTILITIES WHETHER SHOWN ON THIS PLAN OR NOT.

TEMPORARILY SEED AND MULCH ALL SLOPES AFTER CONSTRUCTION OF LOCATION.

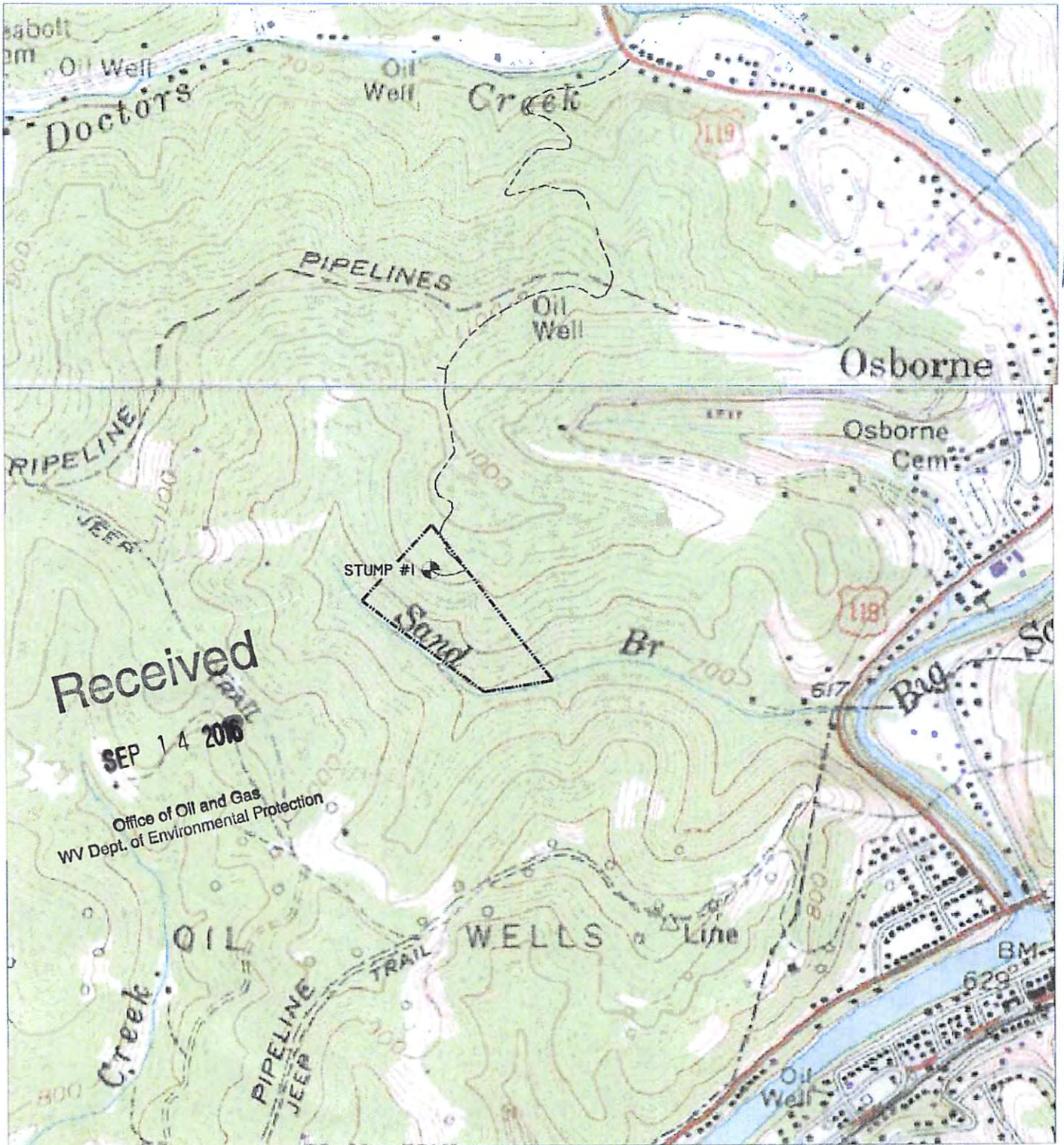
CUT AND STACK ALL TIMBER ABOVE 6-INCHES IN DIAMETER AND THICKER.

STACK BRUSH BELOW LOCATION FOR SEDIMENT CONTROL.

|   |             |               |                                |
|---|-------------|---------------|--------------------------------|
| <b>HUPP Surveying &amp; Mapping</b><br>P.O. BOX 647 GRANTSVILLE, WV 26147<br>PH: (304)354-7035 E-MAIL: hupp@frontiernet.net | Drafted BY: | Date Drafted: | Job Number:                    |
|   | DB          | 09/12/16      | W20162477<br><b>10/07/2016</b> |



# CUNNINGHAM ENERGY, LLC. Stump #1



**HUPP Surveying & Mapping**

P.O. BOX 647 GRANTSVILLE, WV 26147  
PH: (304)354-7035 E-MAIL: hupp@frontiernet.net

1" = 1000'  
Clendenin Quad

Cunningham Energy, LLC.  
3230 Pennsylvania Ave.  
Charleston, WV 25302

10/07/2016

WW-7  
8-30-06



West Virginia Department of Environmental Protection  
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 4703906384 WELL NO.: STUMP #1

FARM NAME: I.C. AND L.C. STUMP

RESPONSIBLE PARTY NAME: UNKNOWN

COUNTY: KANAWHA DISTRICT: BIG SANDY

QUADRANGLE: CLIO 7.5'

SURFACE OWNER: PEARL & MAYFORD HUFFMAN

ROYALTY OWNER: BLUE GROUP ENERGY, INC.

UTM GPS NORTHING: 4260990

UTM GPS EASTING: 468280 GPS ELEVATION: 989' 915'

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:

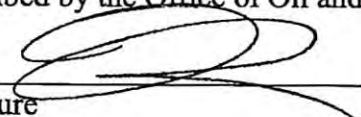
1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

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

PRESIDENT - CUNNINGHAM ENERGY, LLC

Title

9/2/2016

Date

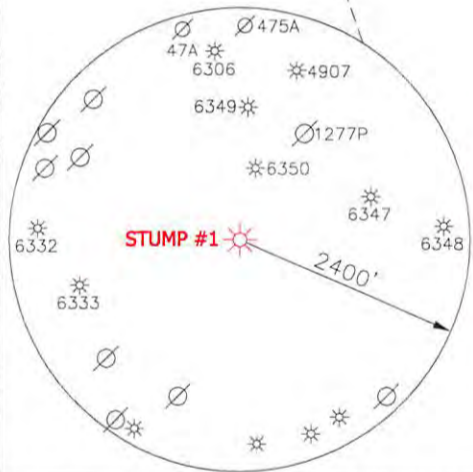
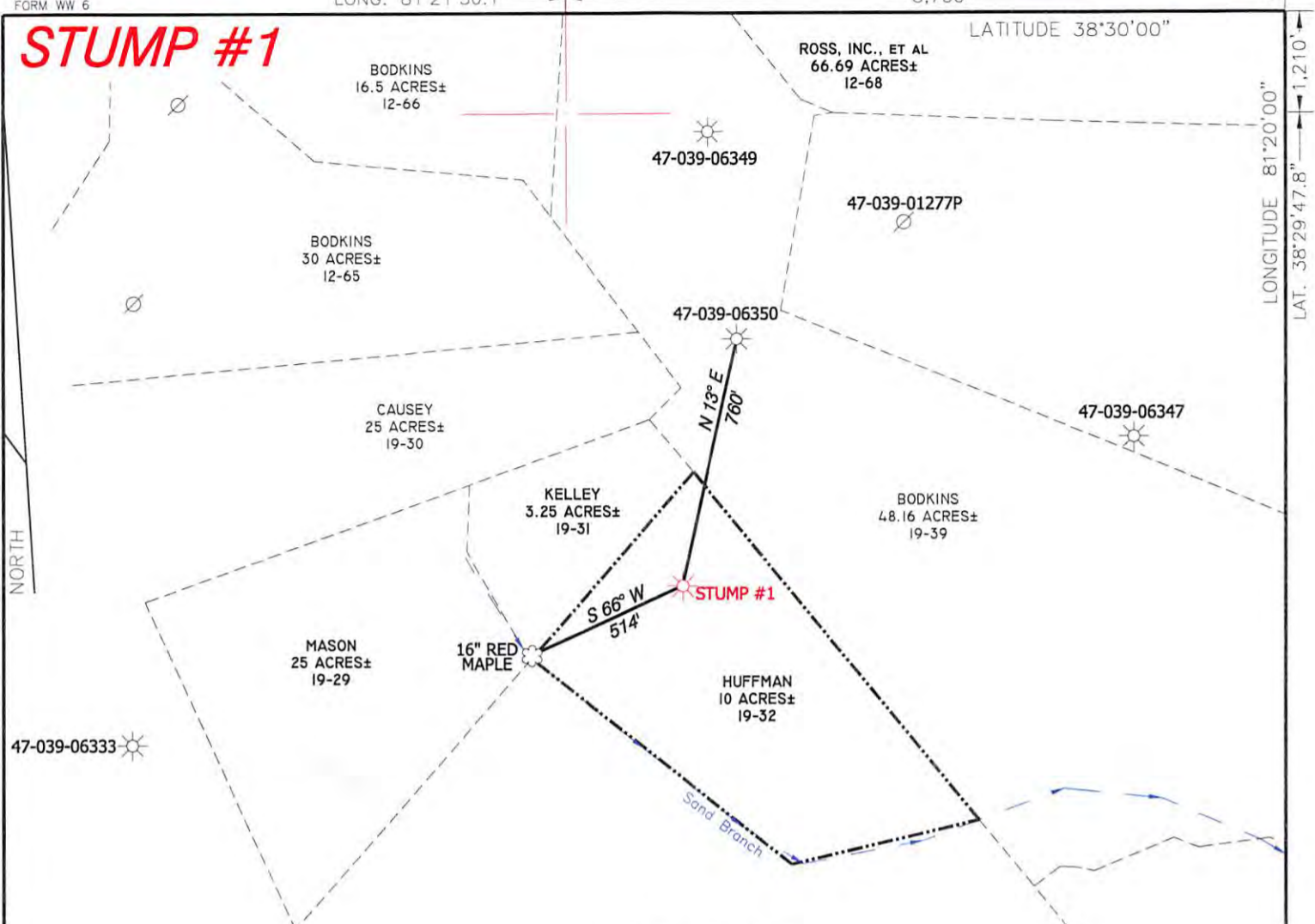
10/07/2016

Received

SEP - 7 2016

Office of Oil and Gas  
WV Dept. of Environmental Protection

# STUMP #1



**STUMP #1  
STATE PLANE  
COORDINATES  
(SOUTH ZONE)**  
(N) 545165  
(E) 1895849

**STUMP #1  
L & L DECIMAL**  
38.49661  
81.36391

**STUMP #1  
UTM (NAD 83)**  
4260990  
468280

### NOTES ON SURVEY

1. NO DWELLINGS WITHIN 625' WERE FOUND.
2. NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250' WERE FOUND. TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE GRID NORTH WV SOUTH ZONE NAD '27.
3. WELL LAT./LONG. ESTABLISHED BY DGPS (SUB-METER GRADE).
4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF KANAWHA COUNTY IN FEBRUARY, 2015 AND INFORMATION PROVIDED BY CUNNINGHAM ENERGY, LLC.
5. WELLS SHOWN ARE TAKEN FROM RECORDS OF WVDEP.

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 RULES ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
DATE SEPTEMBER 12, 20 16  
OPERATORS WELL NO. STUMP #1  
API NO. 47-039-06384P  
WELL NO. 47 - 039 - 06384P  
STATE COUNTY PERMIT

P.S. 834  
**HUPP Surveying & Mapping**  
P.O. Box 647 Grantsville, WV 26147  
(304) 354-7035 EMAIL: hupp@frontiernet.net

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. W2477 (BK 83-1)  
PROVEN SOURCE OF ELEVATION DGPS (SUBMETER GRADE) 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 915' WATERSHED SAND BRANCH  
DISTRICT BIG SANDY COUNTY KANAWHA QUADRANGLE CLENDENIN 7.5'

SURFACE OWNER PEARL & MAYFORD HUFFMAN ACREAGE 10±  
ROYALTY OWNER BLUE GROUP ENERGY, INC. LEASE ACREAGE 10±

PROPOSED WORK : LEASE NO. \_\_\_\_\_  
DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  PLUG AND ABANDON  CLEAN OUT AND REPLUG  OTHER \_\_\_\_\_

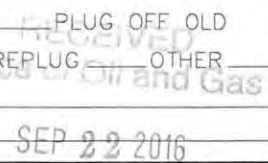
PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ TARGET FORMATION \_\_\_\_\_  
ESTIMATED DEPTH SEP 22 2016

WELL OPERATOR CUNNINGHAM ENERGY, LLC. DESIGNATED AGENT RYAN CUNNINGHAM

ADDRESS 3230 PENNSYLVANIA AVE. CHARLESTON, WV 25302 ADDRESS 3230 PENNSYLVANIA AVE. CHARLESTON, WV 25302

COUNTY NAME  
PERMIT

10/07/2016



# STUMP #1

NORTH

47-039-06333

BODKINS  
16.5 ACRES±  
12-66

BODKINS  
30 ACRES±  
12-65

CAUSEY  
25 ACRES±  
19-30

MASON  
25 ACRES±  
19-29

16" RED  
MAPLE

KELLEY  
3.25 ACRES±  
19-31

HUFFMAN  
10 ACRES±  
19-32

J E WHITE CONST. CO.  
142.779 ACRES±  
19-33

ROSS, INC., ET AL  
66.69 ACRES±  
12-68

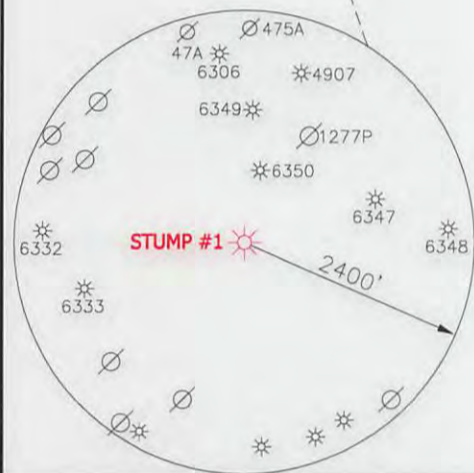
47-039-01277P

47-039-06349

47-039-06350

47-039-06347

BODKINS  
48.16 ACRES±  
19-39



**STUMP #1**  
**STATE PLANE**  
**COORDINATES**  
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**(N) 545165**  
**(E) 1895849**

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DATE SEPTEMBER 12, 2016

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API WELL NO. 47-039-06384 P  
 STATE COUNTY PERMIT

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

WELL OPERATOR CUNNINGHAM ENERGY, LLC. DESIGNATED AGENT RYAN CUNNINGHAM  
 ADDRESS 3230 PENNSYLVANIA AVE. CHARLESTON, WV 25302 ADDRESS 3230 PENNSYLVANIA AVE. CHARLESTON, WV 25302

COUNTY NAME PERMIT