Friday, January 19, 2018
WELL WORK PERMIT
Horizontal / Plugging

TUG HILL OPERATING, LLC
550 BAILEY AVENUE, SUITE 510
FORT WORTH, TX 76107

Re: Permit approval for CORLEY 5H
47-051-01439-00-00

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: CORLEY 5H
Farm Name: CORLEY, JAMES A. & JILL C.
U.S. WELL NUMBER: 47-051-01439-00-00
Horizontal / Plugging
Date Issued: 1/19/2018

Promoting a healthy environment.
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.
STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil / Gas X / Liquid injection / Waste disposal ___/
   (If "Gas, Production ___ or Underground storage ___) Deep ___ / Shallow X

5) Location: Elevation 153' 
   Watershed Tributary of Long Run
   District Franklin
   Watershed Tributary of Long Run
   County Marshall
   Quadrangle Powhatan Point 7.5'

6) Well Operator Tug Hill Operating, LLC
   Address 540 Southpointe Boulevard, Plaza II, Suite 200
   Canonsburg, PA 15317

7) Designated Agent DIANNA STAMPER, CT CORPORATION SYSTEM
   Address 5400 D Big Tyler Road
   Charleston, WV 25313

8) Oil and Gas Inspector to be notified
   Name James Nicholson
   Address P.O. Box 44
   Moundsville, WV 26041

9) Plugging Contractor
   Name Shallenberger Construction, Inc.
   Address 195 Enterprise Lane
   Connellsville, PA 15425

10) Work Order: The work order for the manner of plugging this well is as follows:
    Remove metal plate covering well (20" conductor set at TVD 40').
    Install cement tub TVD 38' to circulate cement from bottom up.
    Cement to surface with Class "A" Type 1 cement.
    Set monument per WV State Code.

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

Work order approved by inspector ___________________________ Date 12/19/17

RECEIVED
Office of Oil and Gas
DEC 22 2017
WV Department of Environmental Protection
## Well Operator's Report of Well Work

**State of West Virginia**
Department of Environmental Protection - Office of Oil and Gas

### General Information

<table>
<thead>
<tr>
<th>API</th>
<th>47-051-01439</th>
<th>County</th>
<th>MARSHALL</th>
<th>District</th>
<th>FRANKLIN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quad</td>
<td>POWHATAN POINT 7.5'</td>
<td>Pad Name</td>
<td>CORLEY</td>
<td>Field/Pool Name</td>
<td>CORLEY 5H</td>
</tr>
<tr>
<td>Farm Name</td>
<td>CORLEY, JAMES A. &amp; JILL C.</td>
<td>Operator (as registered with the OOG)</td>
<td>GASTAR EXPLORATION USA, INC.</td>
<td>Address</td>
<td>229 W MAIN STREET - STE 301</td>
</tr>
</tbody>
</table>

### Drilled Location

<table>
<thead>
<tr>
<th>As Drilled location</th>
<th>NAD 83/UTM</th>
<th>Attach an as-drilled plat, profile view, and deviation survey</th>
</tr>
</thead>
<tbody>
<tr>
<td>Top hole</td>
<td>Northing: 4,429,347.44</td>
<td>Easting: 520,290.47</td>
</tr>
<tr>
<td>Landing Point of Curve</td>
<td>Northing: N/A</td>
<td>Easting: N/A</td>
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<tr>
<td>Bottom Hole</td>
<td>Northing: 4,429,347.44</td>
<td>Easting: 520,290.47</td>
</tr>
</tbody>
</table>

### Elevation (ft)

- 125' GL

### Well Data

<table>
<thead>
<tr>
<th>Elevation (ft)</th>
<th>GL</th>
<th>Type of Well</th>
<th>New</th>
<th>Existing</th>
<th>Type of Report</th>
<th>Interim</th>
<th>Final</th>
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</thead>
<tbody>
<tr>
<td>Top hole</td>
<td>Northing: 4,429,347.44</td>
<td>Easting: 520,290.47</td>
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<td>Existing</td>
<td>Type of Report</td>
<td>Interim</td>
<td>Final</td>
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<tr>
<td>Bottom Hole</td>
<td>Northing: 4,429,347.44</td>
<td>Easting: 520,290.47</td>
<td>New</td>
<td>Existing</td>
<td>Type of Report</td>
<td>Interim</td>
<td>Final</td>
</tr>
</tbody>
</table>

### Permit

- Permit Type: Deviated
- Horizontal
- Horizontal 6A
- Depth Type: Deep
- Shallow

### Type of Operation

- Convert
- Deepen
- Drill
- Plug Back
- Redrilling
- Rework
- Stimulate

### Well Type

- Brine Disposal
- CBM
- Gas
- Oil
- Secondary Recovery
- Solution Mining
- Storage
- Other

### Type of Completion

- Single
- Multiple
- Fluids Produced
- Brine
- Gas
- NGL
- Oil
- Other

### Drilling Media

- Surface hole: Air, Mud, Fresh Water
- Intermediate hole: Air, Mud, Fresh Water, Brine
- Production hole: Air, Mud, Fresh Water, Brine

### Mud Type(s) and Additive(s)

### Dates

- Date permit issued: 04/05/2011
- Date drilling commenced: 4/10/2011
- Date drilling ceased: 4/12/2011
- Date completion activities began: N/A
- Date completion activities ceased: N/A

### Verbal Plugging

- Verbal plugging (Y/N): N
- Date permission granted: N/A
- Granted by: N/A

### Notes

- Operator is required to submit a plugging application within 5 days of verbal permission to plug.

### Water Depths

- Freshwater depth(s) ft: N/A (NONE ENCOUNTERED)
- Salt water depth(s) ft: N/A
- Coal depth(s) ft: N/A

### Caverns

- Cave(n)s encountered (Y/N) depths: N

### Decision

- Approved by: [Signature]
- Reviewed by: [Signature]

---

**RECEIVED**
Office of Oil and Gas
WV Department of Environmental Protection
**API 47-051 - 01439**

**Farm name** CORLEY, JAMES A. & JILL C.  **Well number** CORLEY 5H

<table>
<thead>
<tr>
<th>CASING STRINGS</th>
<th>Hole Size</th>
<th>Casing Size</th>
<th>Depth</th>
<th>New or Used</th>
<th>Grade w/ft</th>
<th>Basket Depth(s)</th>
<th>Did cement circulate (Y/N)</th>
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</thead>
<tbody>
<tr>
<td>Conductor</td>
<td>26&quot;</td>
<td>20&quot;</td>
<td>40'</td>
<td>NEW</td>
<td>54.5#/ft</td>
<td>N/A</td>
<td>Y</td>
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<tr>
<td>Surface</td>
<td></td>
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<tr>
<td>Intermediate 1</td>
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<tr>
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<tr>
<td>Intermediate 3</td>
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<tr>
<td>Production</td>
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<tr>
<td>Tubing</td>
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<tr>
<td>Packer type and depth set</td>
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</tbody>
</table>

**Comment Details**

The Corley 5H well had 40' of conductor casing set at 40' TVD. The well was then temporarily abandoned. The original intent was to come back and finish drilling the well to the permitted TVD, however, this never occurred under Gastar's ownership.

<table>
<thead>
<tr>
<th>CEMENT DATA</th>
<th>Class/Type of Cement</th>
<th>Number of Sacks</th>
<th>Slurry wt (ppg)</th>
<th>Yield ft/skips</th>
<th>Volume ft&lt;sup&gt;3&lt;/sup&gt;</th>
<th>Cement Top (MD)</th>
<th>WOC (hrs)</th>
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<tbody>
<tr>
<td>Conductor</td>
<td>CLASS &quot;A&quot; TYPE 1</td>
<td>99</td>
<td>15.6</td>
<td>1.19</td>
<td>117</td>
<td>SFC</td>
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<tr>
<td>Surface</td>
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</tr>
</tbody>
</table>

Drillers TD (ft) 40'

Loggers TD (ft)

Deepest formation penetrated SURFACE MATERIAL

Plug back procedure N/A

Kick off depth (ft) N/A

Check all wireline logs run
- □ caliper
- □ density
- □ deviated/directional
- □ induction
- □ neutron
- □ resistivity
- □ gamma ray
- □ temperature
- □ sonic

Well cored □ Yes □ No

Conventional Sidewall Were cuttings collected □ Yes □ No

**DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING** N/A

Was well completed as shot hole □ Yes □ No DETAILS

Was well completed open hole? □ Yes □ No DETAILS

Were tracers used □ Yes □ No TYPE OF TRACER(S) USED
PERFORATION RECORD

<table>
<thead>
<tr>
<th>Stage No.</th>
<th>Perforation date</th>
<th>Perforated from MD ft.</th>
<th>Perforated to MD ft.</th>
<th>Number of Perforations</th>
<th>Formation(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

<table>
<thead>
<tr>
<th>Stage No.</th>
<th>Stimulation Date</th>
<th>Ave Pump Rate (BPM)</th>
<th>Ave Treatment Pressure (PSI)</th>
<th>Max Breakdown Pressure (PSI)</th>
<th>ISIP (PSI)</th>
<th>Amount of Proppant (lbs)</th>
<th>Amount of Water (bbls)</th>
<th>Amount of Nitrogen/other (units)</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td></td>
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<td></td>
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<td></td>
</tr>
</tbody>
</table>

Please insert additional pages as applicable.
**PRODUCING FORMATION(S)**

| API | 051 | 01439 | Farm name | CORLEY, JAMES A. & JILL C. | Well number | CORLEY 5H |

**DEPTHs**

<table>
<thead>
<tr>
<th>N/A</th>
<th>TVD</th>
<th>MD</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Please insert additional pages as applicable.

**GAS TEST** □ Build up □ Drawdown □ Open Flow  
**OIL TEST** □ Flow □ Pump

**SHUT-IN PRESSURE**
- Surface: __psi__
- Bottom Hole: __psi__
- Duration of Test: __hrs__

**OPEN FLOW**
- Gas: __mcfpd__
- Oil: __bpd__
- NGL: __bpd__
- Water: __bpd__
- Gas Measured By: □ Estimated □ Orifice □ Pilot

**LITHOLOGY/FORMATION**

<table>
<thead>
<tr>
<th>TOP</th>
<th>BOTTOM</th>
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</thead>
<tbody>
<tr>
<td>DEPTH IN FT</td>
<td>DEPTH IN FT</td>
</tr>
<tr>
<td>NAME</td>
<td>TVD</td>
</tr>
</tbody>
</table>

**Describe Rock Type And Record Quantity And Type Of Fluid (Freshwater, Brine, Oil, Gas, H₂S, Etc.)**

- Surface Material: 0-40 ft  [Soil and surface rock (shale and sandstone)]

Please insert additional pages as applicable.

**Drilling Contractor**: BUTCHES RAT HOLE  
**Address**: 1428 ROUTE 519  
**City**: EIGHTY FOUR  
**State**: PA  
**Zip**: 15330

**Logging Company**:  
**Address**:  
**City**:  
**State**:  
**Zip**:  

**Cementing Company**: BAKER HUGHES  
**Address**: 837 PHILIPPI PIKE  
**City**: CLARKSBURG  
**State**: WV  
**Zip**: 26301

**Stimulating Company**:  
**Address**:  
**City**:  
**State**:  
**Zip**:  

WV Department of Environmental Protection

**Received**: DEC 22 2017

**Submittal of Hydraulic Fracturing Chemical Disclosure Information**

**Telephone**: 724-749-8388

**Signature**:  
**Title**: Regulatory Analyst  
**Date**: 08/14/2017
Corley 5H Cement Additives

Surface: Class A + 3% CaCl + ¼ #per sack flake
4) Surface Owner(s) to be served:
(a) Name: James A. and Jill C. Codley
Address: 203 Flicksville Road
          Bangor, PA 18013

(b) Name: ____________________________
Address: ____________________________

(c) Name: ____________________________
Address: ____________________________

5) (a) Coal Operator
Name: ____________________________
Address: ____________________________

(b) Coal Owner(s) with Declaration
Name: CNX Land Resources, Inc.
Address: Consol Plaza, Suite 900
          Canonsburg, PA 15317

(c) Coal Lessee with Declaration
Name: ____________________________
Address: ____________________________

6) Inspector
Name: James Nicholson
Address: P.O. Box 44, Moundsville, WV 26041
Telephone: 304-562-3974

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 site 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 reverse 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
MAUREEN A. STEAD
Notary Public
CECIL TWP, WASHINGTON COUNTY
My Commission Expires Jan 26, 2019

Well Operator: Tag Hill Operating, LLC
By: Jonathan A. White
    Regulatory Analyst
Address: 360 Southpointe Boulevard, Suite 200
         Canonsburg, PA 15317
Telephone: 724-749-8386

Subscribed and sworn before me this 19 day of DECEMBER, 2017
Notary Public

My Commission Expires 1/20/19

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.
LOCAL REGISTRAR'S CERTIFICATION OF DEATH

WARNING: It is illegal to duplicate this copy by photostat or photograph.

Fee for this certificate, $6.00

This is to certify that the information here given is correctly copied from an original Certificate of Death duly filed with me as Local Registrar. The original certificate will be forwarded to the State Vital Records Office for permanent filing.

Local Registrar       Date Issued

05/14/13

Jan Pest
MARSHALL County 09:57:46 AM
Instrument No 1544966
Date Recorded 06/25/2013
Document Type NRS
Pages Recorded 1
Book-Page 17-138
Recording Fee $5.00
Additional $6.00

STATE OF WEST VIRGINIA, MARSHALL COUNTY, S.C.T.:

I, J.A.N. PEST, Clerk of the County Commission of said County, do hereby certify that the annexed writing, bearing date on the 16th day of May, 2013, was presented for and by me, admitted to record in my office upon the above certificate as to the parties therein named this 25th day of June, 2013, at 9:57 a.m.

CPS SM 343.

TESTE: J.A.N. PEST

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

Operator's Well No. Corley No. 5H

Operator Name: Tug Hill Operating, LLC

Latitude: 38° 08' 03.2" N
Longitude: 81° 24' 01.2" W

Watershed (HUC 10) Fish Creek - Ohio River (Undefined)

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? Yes [ ] No [x]

If so, please describe anticipated pit waste: N/A - Cement will be mixed on site in trucks

Will a synthetic liner be used in the pit? Yes [ ] No [ ] If so, what ml? N/A

Proposed Disposal Method For Treated Pit Wastes:
- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection (UIC Permit Number)
- Reuse (at API Number)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain)

Any well effluent must be contained in tanks and disposed of offsite in a proper manner.

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. N/A - No drilling will be done

- If oil based, what type? Synthetic, petroleum, etc. N/A - No drilling will be done

Additives to be used in drilling medium? N/A - No drilling will be done

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. N/A - No drilling will be done

- If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A - No drilling will be done

- Landfill or offsite name/permit number? N/A - No drilling will be done

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 shall be subject 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): Jonathan White
Company Official Title: Regulatory Analyst

Subscribed and sworn before me this 18 day of December, 2017
Notary Public

My commission expires 1/28/19
Commonwealth of Pennsylvania
NOTARIAL SEAL
MAUREEN A STEAD
Notary Public
CECIL TWP, WASHINGTON COUNTY
My Commission Expires Jan 28, 2019
Proposed Revegetation Treatment: Acres Disturbed 17.78 Prevegetation pH 6.0

Line 3 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20

Fertilizer amount 500 lbs/acre

Mulch 2.5 Tons/acre

Seed Mixtures

<table>
<thead>
<tr>
<th>Seed Type</th>
<th>Temporary</th>
<th>lbs/acre</th>
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<tbody>
<tr>
<td>Rye Grain</td>
<td></td>
<td>140</td>
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<table>
<thead>
<tr>
<th>Seed Type</th>
<th>Permanent</th>
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<tbody>
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<td>Tall Fescue</td>
<td>40</td>
</tr>
<tr>
<td>Ladino Clover</td>
<td>5</td>
</tr>
</tbody>
</table>

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:

RECEIVED
Office of Oil and Gas
DEC 22, 2017

Field Reviewed? ( ) Yes ( ) No

Title: Oil & Gas Inspector Date: 12/19/17
REFERENCE IS HEREBY MADE TO THE WV D.E.P. OFFICE OF OIL & GAS, "EROSION AND SEDIMENT CONTROL FIELD MANUAL" FOR REQUIREMENTS AND BMPs FOR AVERAGE FIELD CONDITIONS CONCERNING THE MAINTENANCE OF EXISTING ROADS AND THE CONSTRUCTION OF PROPOSED ROADS. FIELD CONDITIONS MAY REQUIRE VARIANCE FROM THESE GUIDELINES AND THE EARTHWORK CONTRACTOR IS RESPONSIBLE FOR NOTIFICATION TO THE INSPECTOR AND THE OPERATOR SHOULD THESE CONDITIONS OCCUR.

INSTALL CULVERTS AS SHOWN ON RECLAMATION PLAN OR AS FIELD CONDITIONS REQUIRE.

ENTRANCES ONTO PUBLIC ROADS SHALL BE CONSTRUCTED OR MAINTAINED IN ACCORDANCE WITH WV D.O.T. REGULATIONS. ADDITIONAL PERMITS MAY BE REQUIRED.

TEMPORARILY SEED AND MULCH ALL SLOPES UPON CONSTRUCTION OF LOCATION.

ALL CUT AND FILL SLOPES ARE 2H : 1V SLOPE.

ALL TREES 6-INCHES AND ABOVE ARE TO BE CUT AND STACKED. BRUSHSlashings ARE TO UTILIZED DOWN SLOPE OF SITE AND STRUCTURES TO ACT AS A CONTROL BARRIER IF AVAILABLE.

Note: 

- C — Denotes existing culvert with appropriate sediment outlet control (Rip Rap splash pad).
- Silt Fence and or Sediment and Erosion Control Measure.
- Surface Boundary

DATE: 12/18/17  PROJECT NO: 494510851  DRAWN BY: J.N.W.
West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-051-01439              WELL NO.: Corley No. 5H
FARM NAME: Fish Creek - Ohio River (Undefined)
RESPONSIBLE PARTY NAME: Tug Hill Operating, LLC
COUNTY: Marshall             DISTRICT: Franklin
QUADRANGLE: Powhatan Point 7.5'
SURFACE OWNER: James A. and Jill C. Corley
ROYALTY OWNER: James A. and Jill C. Corley, Et Al

UTM GPS NORTHING: 4,400,347.44       (1253')
UTM GPS EASTING: 520,290.47           GPS ELEVATION: 381.81 M.

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:

2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:
   Survey grade GPS X : Post Processed Differential ____
   Real-Time Differential X
   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.

Jonathan White            Regulatory Analyst  12/18/17
Signature                  Title                    Date