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**west virginia** department of environmental protection

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Office of Oil and Gas  
601 57th Street SE  
Charleston, WV 25304  
(304) 926-0450  
(304) 926-0452 fax

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

July 29, 2014

**WELL WORK PERMIT**

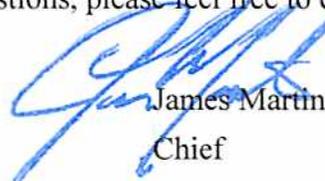
**Vertical Well**

This permit, API Well Number: 47-5902245, issued to TUG FORK DEVELOPMENT, 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 all 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 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.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-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) 926-0499 ext. 1654.



James Martin  
Chief

Operator's Well No: HRC 3  
Farm Name: HUNTINGTON REALTY CORPOR  
**API Well Number: 47-5902245**  
**Permit Type: Vertical Well**  
Date Issued: 07/29/2014

**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.

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### CONDITIONS

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1. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code §22-6-20, which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
2. Pursuant to 35 CSR 4-19.1.a, at the request of the surface owner all water wells or springs within 1000 feet of the proposed well that are actually utilized for human consumption, domestic animals or other general use shall be sampled and analyzed.
3. Pursuant to 35 CSR 4-19.1.c, if the operator is unable to sample and analyze any water well or spring with one thousand (1,000) feet of the permitted well location, the Office of Oil and Gas requires the operator to sample, at a minimum, one water well or spring located between one thousand (1,000) feet and two thousand (2,000) feet of the permitted well location.
4. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
5. 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.
6. During the surface casing and cementing process, in the event cement does not return to the surface, or any other casing string that is permitted to circulate cement to the surface and does not return to the surface, the oil and gas inspector shall be notified within twenty-four (24) hours.
7. Well work activities shall not constitute a hazard to the safety of persons.
8. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced on this well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

**STATE OF WEST VIRGINIA**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS**  
**WELL WORK PERMIT APPLICATION**

1) Well Operator: TUG FORK DEVELOPMENT Operator ID MINGO HARVEY WILSONDALE  
County District Quadrangle

2) Operator's Well Number: HRC 3      3) Elevation: 1153

4) Well Type: (a) Oil \_\_\_\_\_ or Gas X \_\_\_\_\_  
(b) If Gas: Production X / Underground Storage \_\_\_\_\_  
Deep \_\_\_\_\_ / Shallow X \_\_\_\_\_

5) Proposed Target Formation(s): LOWER HURON SHALE Proposed Target Depth: 3300-3700

6) Proposed Total Depth: 3950 Feet Formation at Proposed Total Depth: WHITE SLATE

7) Approximate fresh water strata depths: 250

8) Approximate salt water depths: 1650

9) Approximate coal seam depths: 70-73

10) Approximate void depths, (coal, Karst, other): NONE

11) Does land contain coal seams tributary to active mine? NO

12) Describe proposed well work and fracturing methods in detail (attach additional sheets if needed)

DRILL VERTICAL WELL TO A TOTAL DEPTH OF 75 FEET BELOW THE BOTTOM OF THE LOWER HURON SECTION OF THE DEVONIAN SHALE.  
INSTALL AND CONCRETE CASING AS DESCRIBED BELOW IN THE "CASING AND TUBING PROGRAM". STIMULATE BY FRACTURING  
WITH NITROGEN IN A GASEOUS STATE.

13) **CASING AND TUBING PROGRAM**

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft	For Drilling	Left in Well	Fill -up (Cu. Ft.)
Conductor	13.375	LS	46#	30	30	DRIVER PIPE
Fresh Water				300	300	CTS, gum
Coal	9.625	LS	26#	250	250	
Intermediate	7	LS	17#	1820	1820	150
Production	4.5	N-80	9.5#	3700	3700	340
Tubing						154
Liners						

RECEIVED  
Office of Oil and Gas  
JUL 10 2014

Packers: Kind: \_\_\_\_\_  
Sizes: \_\_\_\_\_  
Depths Set \_\_\_\_\_

WV Department of  
Environmental Protection



7013 2630 0002 1044 1107

U.S. Postal Service™  
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Total Postage & Fees	\$ 4.70



Sent To *CONSOL ENERGY* USPS

Street, Apt. No., or PO Box No. *PO Box 76*

City, State, ZIP+4 *NAUGATUCK, WV 25685*

PS Form 3800, August 2006 See Reverse for Instructions

7013 2630 0002 1044 1091

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**OFFICIAL USE**

Postage	\$ 1.40
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 4.70



Sent To *HUNTINGTON REALTY CORP* USPS

Street, Apt. No., or PO Box No. *PO Box 522*

City, State, ZIP+4 *HUNTINGTON, WV 25701*

PS Form 3800, August 2006 See Reverse for Instructions

WW-2A Surface Waiver

SURFACE OWNER WAIVER

County Mingo

Operator TUG FURK DEVELOPMENT  
Operator well number HRC 3

**INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW2-A**

The well operator named on page WW2A is applying for a permit from the State to do oil or gas well work. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

**NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.**

**WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:**

Chief, Office of Oil and Gas  
Department of Environmental Protection  
601 57<sup>th</sup> St. SE  
Charleston, WV 25304  
(304) 926-0450

**Time Limits and methods for filing comments.** The law requires these materials to be served on or before the date the operator files his Application. You have **FIFTEEN (15) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure a adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

**Comments must be in writing.** Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation..."

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

**List of Water Testing Laboratories.** The Office maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Chief to obtain a copy.

**VOLUNTARY STATEMENT OF NO OBJECTION**

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application for a Well Work Permit on Form WW2-A, and attachments consisting of pages 1 through \_\_\_ including a work order on Form WW2-B, a survey plat, and a soil and erosion plan, all for proposed well work on my surface land as described therein.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERSON

FOR EXECUTION BY A CORPORATION, ETC.

\_\_\_\_\_  
Signature

Date \_\_\_\_\_

Company Name Austin for Realty Corporation  
By Ann G. Cho  
Its President  
Date 7/28/14

\_\_\_\_\_  
Print Name

Ann G. Cho  
Signature  
7/28/14  
Date

N-2A Coal Waiver

COAL OPERATOR, OWNER, OR LESSEE WAIVER

County MINGO  
Operator TUG FORK DEVELOPMENT

Operator's Well Number HRC 3

INSTRUCTIONS TO COAL OPERATOR, OWNER, OR LESSEE

To the coal operator, owner, or lessee named on page WW2-A. You are hereby notified that any objection you wish to make or are required to make by WV Code 22-6-15, 16 or 17, must be filed with the Chief of the Office of Oil and Gas within fifteen (15) days after the receipt of this application by the Office. Mail objections to:

Chief, Office of Oil and Gas  
Department of Environmental Protection  
601 57<sup>th</sup> St. SE  
Charleston, WV 25304  
(304) 926-0499 extension 1654

WAIVER

The undersigned coal operator X / owner      / lessee X / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

FOR EXECUTION BY A NATURAL PERSON

FOR EXECUTION BY A CORPORATION, ETC.

\_\_\_\_\_  
Signature

Date

Company Name CONSOL of Kentucky, Inc.  
By Robert L. Baldwin  
Its Superintendent Date

Robert L. Baldwin 7/14/14  
Signature Date

WW-2A1  
(Rev. 1/11)

Operator's Well Number HRC 3

**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE  
Chapter 22, Article 6, Section 8(d)  
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)**

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that -

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
HUNTINGTON REALTY CORP	TUG FORK DEVELOPMENT	12.5%	108/216

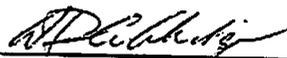
**Acknowledgement of Possible Permitting/Approval  
In Addition to the Office of Oil and Gas**

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources
- WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator:  
By: Its:

  
 \_\_\_\_\_  
 TUG FORK DEVELOPMENT  
 \_\_\_\_\_  
 OWNER  
 \_\_\_\_\_

WW-2B1  
(5-12)

Well No. \_\_\_\_\_

West Virginia Department of Environmental Protection  
Office of Oil and Gas

NOTICE TO SURFACE OWNERS

The well operator named below is preparing to file for a permit from the state to drill a new well. Before a well work permit can be filed with the Chief of the Office of Oil and Gas, the well operator is required to have given notice of the right to request water well or spring analytical testing. This notice shall be given to the owners or occupants of land which have a water well or spring being utilized for human consumption, domestic animals, or other general use and which is located within 1000 feet of the proposed well site.

With this form, the operator is giving you notice of your right to request analytical testing. The operator is required to sample and analyze the water wells or springs of all owners or occupants who request it. Therefore, if you wish to have your water well or spring tested, contact the operator named below.

All sampling shall be completed prior to drilling. Within thirty (30) days of the receipt of such sample analyses the operator shall submit the results to the Chief of the Office of Oil and Gas and to the owners or occupants who may have requested them.

Be advised, you have the right to sample and analyze any water supply at your own expense.

Listed below is the laboratory chosen by operator to perform analysis, and contactor chosen to collect sample.

Certified Laboratory Name \_\_\_\_\_  
Sampling Contractor \_\_\_\_\_

Well Operator TUG FORK DEVELOPMENT  
Address 3930 BRANDYWINE DR  
CATLETTSBURG, KY 41129  
Telephone 606 922 5087

FOR OPERATOR'S USE ONLY: Below, or on an attached page, list those persons which were given this notice. Place an asterisk beside the one(s) that contacted you and requested sampling and analyses. If there were no requests made, indicate by underlining which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site, the Chief may require the operator to test wells up to 2000 feet from the proposed site.

*THERE ARE NO WATER WELLS OR SPRINGS WITHIN 2000' OF THE PROPOSED WELL SITE*

RECEIVED  
Office of Oil and Gas  
JUL 01 2014  
West Virginia Department of Environmental Protection

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name TUG FORK DEVELOPMENT OP Code \_\_\_\_\_

Watershed (HUC 10) OPEN MOUTH OF W FK OF TWELVEPOLE CK Quadrangle WILSONDALE

Elevation 1153 County MINGO District HARVEY

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 X No \_\_\_\_\_

If so, please describe anticipated pit waste: DRILL CUTTINGS, PRODUCED AND INDUCED WATER

Will a synthetic liner be used in the pit? Yes X No \_\_\_\_\_ If so, what ml.? 20ml.

Proposed Disposal Method For Treated Pit Wastes:

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

Will closed loop system be used? NO

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. AIR

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

Additives to be used in drilling medium? SOAP

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. LEAVE IN PIT

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

-Landfill or offsite name/permit number? \_\_\_\_\_

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 [Signature]

Company Official (Typed Name) W. D. CUBBEDGE

Company Official Title OWNER

RECEIVED  
Office of Oil and Gas  
JUL 10 2014

Subscribed and sworn before me this 3 day of July, 2014

[Signature]

Notary Public



My commission expires 10/13/18

Form WW-9

Operator's Well No. HRL-3

Proposed Revegetation Treatment: Acres Disturbed .5 Prevegetation pH 7

Lime 2 Tons/acre or to correct to pH 7

Fertilizer (10-20-20 or equivalent) 500 lbs/acre (500 lbs minimum)

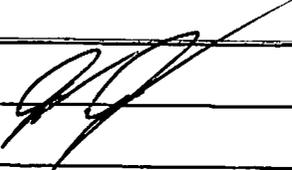
Mulch PAPER(HYDRO SEED) Tons/acre

Seed Mixtures

Area I		Area II	
Seed Type	lbs/acre	Seed Type	lbs/acre
FAWN FESCUE	25	SAME AS AREA 1	
ORCHARD GRASS	10		
PERRENIAL AND ANNUAL RYE	10		
MEDIUM RED CLOVER	3		

Attach:  
Drawing(s) of road, location, pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: 

Comments:

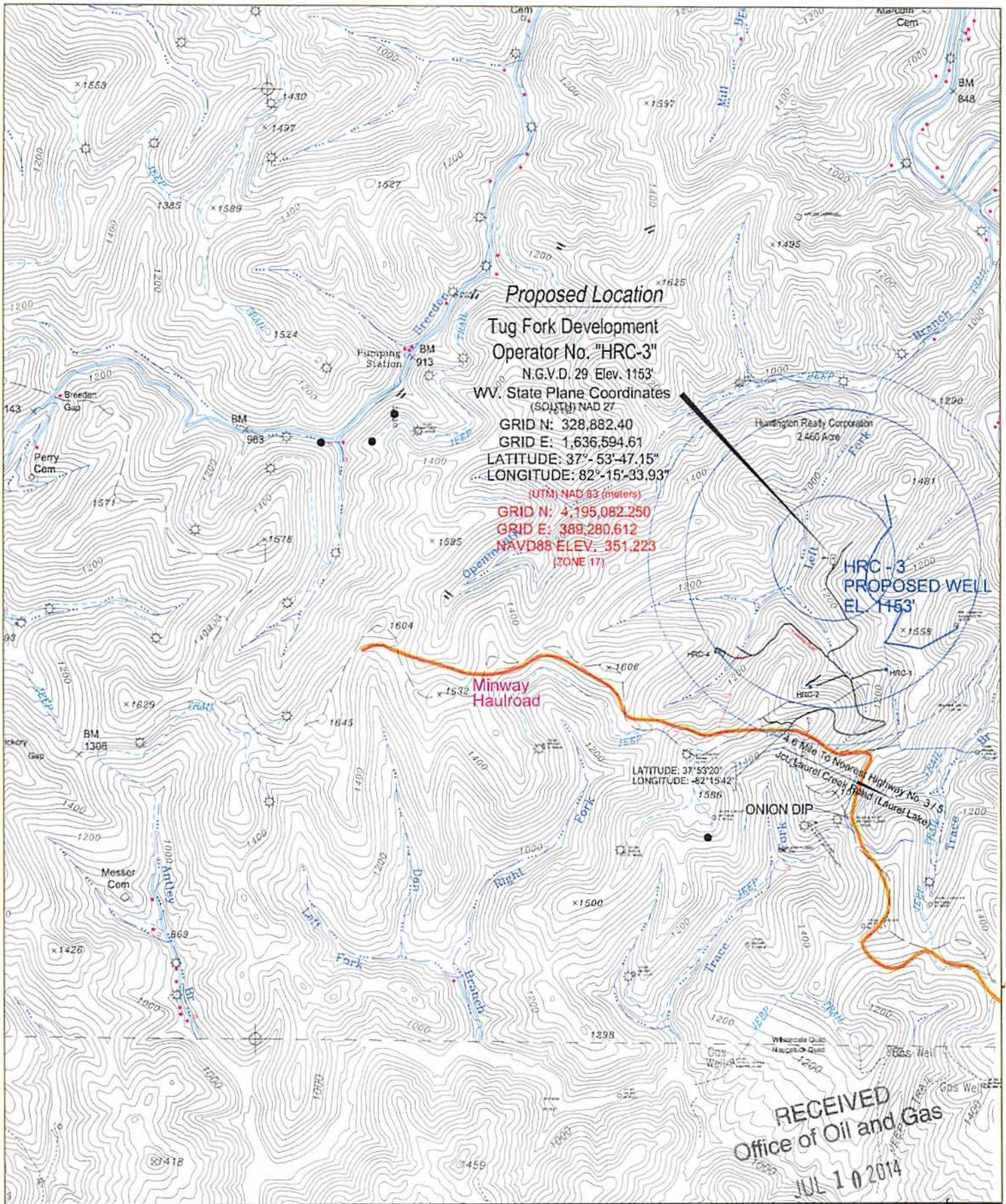
Title: inspector OOG

Date: 7-7-14

Field Reviewed?  Yes  No

RECEIVED  
Office of Oil and Gas  
JUL 10 2014  
WV Department of  
Environmental Protection





**Proposed Location**  
 Tug Fork Development  
 Operator No. "HRC-3"  
 N.G.V.D. 29 Elev. 1153'  
 WV. State Plane Coordinates  
 (SOUTH) NAD 27  
 GRID N: 328,882.40  
 GRID E: 1,636,594.61  
 LATITUDE: 37°-53'-47.15"  
 LONGITUDE: 82°-15'-33.93"  
 (UTM) NAD 83 (meters)  
 GRID N: 4,195,082.250  
 GRID E: 389,280.612  
 NAVD88 ELEV: 351.223  
 (ZONE 17)

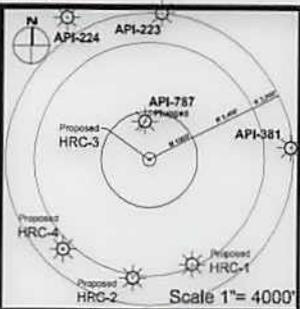
LATITUDE: 37°53'20"  
 LONGITUDE: -82°15'42"

RECEIVED  
 Office of Oil and Gas  
 JUL 10 2014

TUG FORK DEVELOPMENT, INC.  
 3930 BRANDWINE DRIVE  
 CATLETTSBURG, KENTUCKY 41129

GENERAL LOCATION MAP  
 ACCESS ROAD TO HRC-3  
 WILSONDALE/NAUGATUCK QUADRANGLE  
 SCALE 1" = 2000 FEET  
 9 April 2014

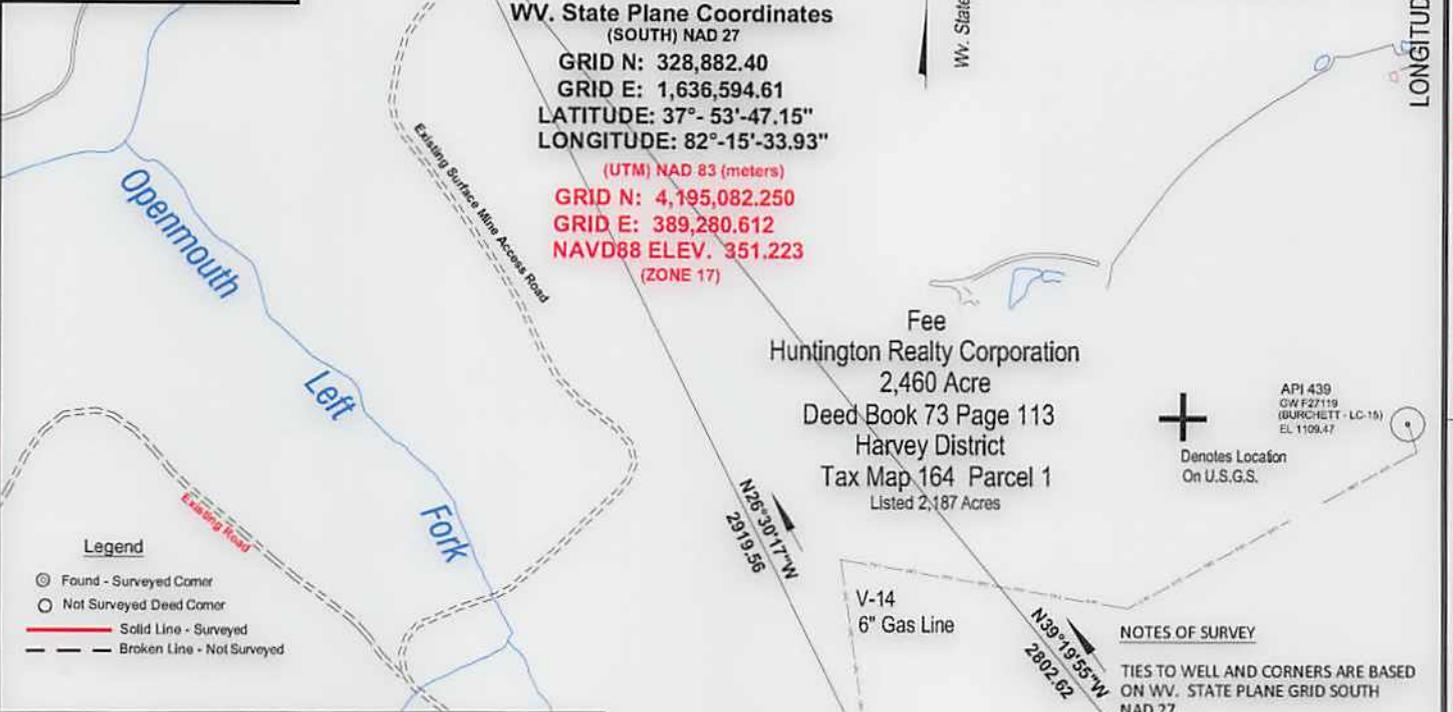
Prepared By:  
 Tug Valley Surveying Department of  
 P.O. BOX 862  
 Williamson, W. V. 25755  
 Environmental Protection



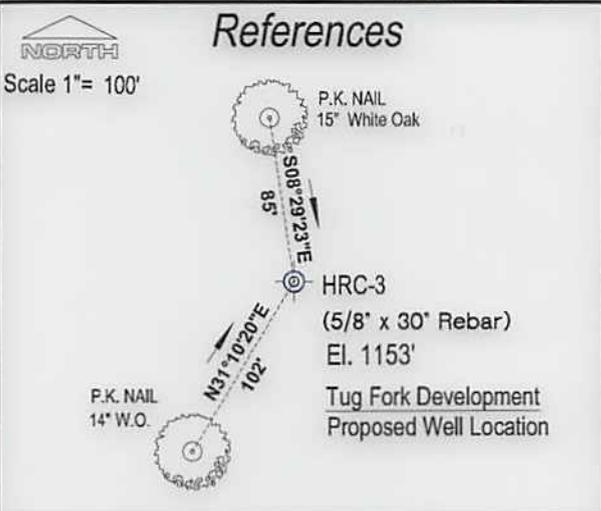
LATITUDE **37° 55' 00"**  
 LONGITUDE **82° 15' 00"**  
**UG VALLEY SURVEYING, INC.**  
 1174 CENTRAL AVENUE  
 SOUTH WILLIAMSON, KY 41503  
 PHONE: 508-537-1222  
 FAX: 508-537-8082  
 E-MAIL: acoffey@ugvalley.com

**Proposed Location**  
**Tug Fork Development**  
**Operator No. "HRC-3"**  
 N.G.V.D. 29 Elev. 1153'  
**WV. State Plane Coordinates**  
 (SOUTH) NAD 27  
**GRID N: 328,882.40**  
**GRID E: 1,636,594.61**  
**LATITUDE: 37° - 53' - 47.15"**  
**LONGITUDE: 82° - 15' - 33.93"**  
 (UTM NAD 83 (meters))  
**GRID N: 4,195,082.250**  
**GRID E: 389,280.612**  
**NAVD88 ELEV. 351.223**  
 (ZONE 17)

Coal Lessee: CONSOL Of Kentucky Inc.  
 Oil & Gas Lessee:  
 Tug Fork Development, Inc.



**Legend**  
 ⊙ Found - Surveyed Corner  
 ○ Not Surveyed Deed Corner  
 — Solid Line - Surveyed  
 - - - Broken Line - Not Surveyed



**NOTES OF SURVEY**  
 TIES TO WELL AND CORNERS ARE BASED ON WV. STATE PLANE GRID SOUTH NAD 27.

LEASE BOUNDARIES TAKEN FROM B.C. & L BOOK 106 PAGE 226. REF. DB 73 AT PAGE 113.

THERE ARE NO DWELLING OR WATER WELL WITHIN 200 FEET.

**Established Boundary Line**  
 "Map Showing Property Of Closterman Estate"  
 Situate In Mingo and Wayne Counties W. Va.  
 Good Engineering Company, Inc.  
 Civil & Mining Engineers  
 Williamson, West Va.  
 No. 5898-94

Fee Closterman Estate Tract  
 2,230 Acre  
 IRON RAIL (Found)  
 IRON RAIL (nf) 1959 Survey Plat



KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION.

*Alan J. Coffey*  
 Alan J. Coffey, PLS No. 869su

DATE 9 April 20 14  
 OPERATORS WELL NO. HRC-3  
 API WELL NO. 47 - 059 - 02245  
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1: 5,000  
 PROVEN SOURCE OF ELEVATION: U.S.G.S. (N.G.V.D. 29) Benchmark "G-158" El. 1587.60' GPS OPUS  
 FILE NO. \_\_\_\_\_  
 SCALE 1"= 400 FEET

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

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  If "Gas" Production  Storage  Deep  Shallow

LOCATION:  
 Elevation 1153' Watershed Left Fork Openmouth Br. Of Twelvepole Creek  
 District HARVEY County MINGO Quadrangle Wilsondale 7 1/2 Minute

SURFACE OWNER Huntington Realty Corporation ACREAGE ± 2460 Less 277 Ac.  
 ROYALTY OWNER Huntington Realty Corporation LEASE ACREAGE ± 2460

PROPOSED WORK:  
 DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE   
 PLUG OFF OLD FORMATION  PERFORATE NEW  PLUG AND ABANDON  CLEAN OUT AND REPLUG   
 OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ TARGET FORMATION LOWER HURON  
 ESTIMATED DEPTH ± 3,950'

WELL OPERATOR Tug Fork Development DESIGNATED AGENT DAVE BARTRAN  
 ADDRESS: 3930 BRANDWINE DRIVE, CATLETTSBURG, KENTUCKY 41129 ADDRESS P.O. BOX 306 MILTON, WV. 25541

COUNTY  
 PERMIT