



west virginia department of environmental protection

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

June 02, 2015

WELL WORK PERMIT

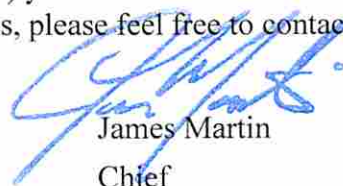
Re-Work

This permit, API Well Number: 47-3500487, issued to COLUMBIA GAS TRANSMISSION, LLC, 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: 7295
Farm Name: AYLERS, ARTHUR
API Well Number: 47-3500487
Permit Type: Re-Work
Date Issued: 06/02/2015

Promoting a healthy environment.

06/05/2015

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. 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.

3500487W

WW-2A
(Rev. 6-07)

1.) Date: 2/5/15
2.) Operator's Well Number Ripley 7295
State 47 County 035 Permit 00487
3.) API Well No.:

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

4) Surface Owner(s) to be served:
(a) Name Arthur & Barbara Ayres
Address PO Box 245
Sandyville, WV 25275
(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector Jamie Stevens
Address 105 Kentuck Rd
Kenna, WV 25248
Telephone 304-206-7775

5) (a) Coal Operator
Name not operated
Address _____
(b) Coal Owner(s) with Declaration
Name not operated
Address _____
(c) Coal Lessee with Declaration
Name _____
Address _____

TO THE PERSONS NAMED ABOVE TAKE NOTICE THAT:

OR Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas
 Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22-6 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through ___ on the above named parties by:

- Personal Service (Affidavit attached)
- Certified Mail (Postmarked postal receipt attached)
- Publication (Notice of Publication attached)

I have read and understand Chapter 22-6 and 35 CSR 4, and I agree to the terms and conditions of any permit issued under this application.

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, 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 and imprisonment.

Well Operator Columbia Gas Transmission, LLC
By: James E. Amos
Its: Senior Well Services Engineer
Address 1700 MacCorkle Ave. SE
Charleston, WV 25325-1278
Telephone 304-483-0073

Subscribed and sworn before me this 10th day of February, 2015

Mary Marie Clendenin
My Commission Expires 3/22/2015



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

06/05/2015

7007 0710 0003 2294 8211

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

OFFICIAL USE

SANDYVILLE WV 25275

| | | |
|---|-----------------|------------------|
| Postage | \$ 11.61 | |
| Certified Fee | \$ 3.30 | 0271 |
| Return Receipt Fee (Endorsement Required) | \$ 2.70 | 06 |
| Restricted Delivery Fee (Endorsement Required) | \$ 0.00 | Postmark Here |
| Total Postage & Fees | \$ 17.61 | |

MAR 26 2015

03/26/2015

Sent To **Arthur and Barbara Ayers**

Street, Apt. No.,
or PO Box No. **P. O. Box 245**

City, State, ZIP+4 **Sandyville WV 25275**

PS Form 3800, August 2006 See Reverse for Instructions

06/05/2015

47-035-00487-7
3500487W

WW-2A1
(Rev. 1/11)

Operator's Well Number Ripley 7295

**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 |
|-----------------------|--------------------------------|---------------------|-----------|
| W. E. Hupp, et al | Columbia Gas Transmission, LLC | Storage Lease 52783 | 84 / 519 |

**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

Received
Office of Oil & Gas
MAR 30 2015

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:

Columbia Gas Transmission, LLC
James E. Amos
Senior Well Services Engineer

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MAR 30 2015

06/05/2015

APL-47-035-00487

WW - 2B
(Rev. 8/10)

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

1) Well Operator: Columbia Gas Transmission, LLC 307032 Jackson Ravenswood Sandyville
Operator ID County District Quadrangle

2) Operator's Well Number: Ripley 7295 (existing well) 3) Elevation: 669

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

5) Proposed Target Formation(s): Oriskany Proposed Target Depth: 4854

6) Proposed Total Depth: 4871 (existing) Feet Formation at Proposed Total Depth: Oriskany

7) Approximate fresh water strata depths: 290' (as reported by driller in 1945)

8) Approximate salt water depths: 1265' (as reported by driller in 1945)

9) Approximate coal seam depths: none reported by driller in 1945

10) Approximate void depths,(coal, Karst, other): none reported by driller in 1945

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)
Clean wellbore using coil tubing and fracture stimulate.

* Casing and tubing listed below are existing.

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 | 16 | | | 16 | 16 | no record of cement |
| Fresh Water | 13.375 | | 48 | 590 | 590 | cmt'd but no record of amount |
| Coal | 10.75 | | | 1139 | 0 | N/A |
| Intermediate | 8.625 | | 24 | 2004 | 2004 | cmt'd but no record of amount |
| Production | 4.5 | J-55 | 12.6 | 4871 | 4871 | cmt'd but no record of amount |
| Tubing | | | | | | |
| Intermediate #2 | 7 | | 22 | 4757 | 4757 | cmt'd but no record of amount |

Existing from well records
Jimmie Stevenson
3/25/2015

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Office of Oil & Gas
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Packers: Kind: _____
Sizes: _____
Depths Set _____

7295
F-19835

APR 47-035-004877

7295

Permit - JAC - 487
Company - United Carbon Company
Farm - W. E. Hupp et al Well No. 1-1293
Location - Ravenswood District, Jackson County
Commenced - May 26, 1945
Completed - August 11, 1945
Elevation - 675.3'

*Columbia Gas
Transmission*

*Free
Existing Well*

Casing Record:
16" 16'
13 3/8" 48# 590'
10 3/4" 32.75# 1138'9" Pulled
8 5/8" 24# 2004'
7" OD 22# 4757'
2 3/8" 4851'

| Formation | 0 | 60 |
|------------------|------|------|
| Red Rock | 60 | 70 |
| Shell | 70 | 110 |
| Red Rock | 110 | 130 |
| Slate, Blue | 130 | 150 |
| Shell | 150 | 200 |
| Red Rock | 200 | 230 |
| Slate, Blue | 230 | 290 |
| Sand | 290 | 300 |
| Slate, Blue | 300 | 315 |
| Red Rock | 315 | 340 |
| Shell | 340 | 350 |
| Red Rock | 350 | 375 |
| Sand Shell | 375 | 400 |
| Red Rock | 400 | 420 |
| Slate | 420 | 475 |
| Red Rock | 475 | 545 |
| Sand | 545 | 550 |
| Slate, Black | 550 | 590 |
| Lime, Sandy | 590 | 615 |
| Slate | 615 | 700 |
| Sand | 700 | 710 |
| Slate, Blue | 710 | 725 |
| Red Rock | 725 | 740 |
| Sand | 740 | 800 |
| Red Rock | 800 | 975 |
| Slate Shells | 975 | 990 |
| Slate, Black | 990 | 1075 |
| Slate Shell | 1075 | 1090 |
| Lime Shell | 1090 | 1240 |
| Slate Shell | 1240 | 1252 |
| Slate, Black | 1252 | 1262 |
| Lime | 1262 | 1325 |
| Sand | 1325 | 1360 |
| Slate & Shells | 1360 | 1405 |
| Sand | 1405 | 1450 |
| Slate | 1450 | 1485 |
| Sand | 1485 | 1570 |
| Slate | 1570 | 1700 |
| Salt Sand | 1700 | 1855 |
| Big Lime | 1855 | 1878 |
| Slate, White | 1878 | 1994 |
| Injun Sand | 1994 | 2330 |
| Slate Shell | 2330 | 2340 |
| Shale, Brown | 2340 | 2350 |
| Berea Shell | 2350 | 3600 |
| Slate & Shells | 3600 | 3650 |
| Shale, Brown | 3650 | 3860 |
| Slate & Shells | 3860 | 4080 |
| Shale, Brown | 4080 | 4520 |
| Slate, White | 4520 | 4745 |
| Shale, Brown | 4745 | 4854 |
| Corniferous Lime | 4854 | 4871 |
| Oriskany Sand | 4871 | 4871 |
| TOTAL DEPTH | | |

Water at 290'
" 1265' Hole full
Gas 4854' 6/10 W 2" 103H
" 4856' 12/10 W 2" 146H
Final open flow 17,437,000 Cu. Ft.
Natural
24 hour rock pressure 1740#.

*James Stevens
3/25/2015*

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Office of Oil & Gas
MAR 30 2015

7295

*United Carbon
F. 19835*

3500487W

WW-9
Rev. 5/10

Page _____ of _____
API Number 47 - 035 - 00487 7
Operator's Well No. Ripley 7295

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

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name Columbia Gas Transmission, LLC OP Code 307032

Watershed Mud Run of Sandy Creek Quadrangle Sandyville

Elevation 669 County Jackson District Ravenswood

Description of anticipated Pit Waste: no earthen pit to be utilized

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

Will a synthetic liner be used in the pit? N/A. If so, what mil.? _____

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection (UIC Permit Number 34-105-2-3619, 34-009-03761, 34-121-2459)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain Pinegrove Landfill - Amanda, OH)

ANY WELL EFFLUENT MUST
BE CONTAINED IN TANKS
& DISPOSED OF PROPERLY.
JMM/AM

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

-If oil based, what type? Synthetic, petroleum, etc. _____

Additives to be used? biocide, surfactant

Will closed loop system be used? yes

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. not anticipated

-If left in pit and plan to solidify what medium will be used? Cement, lime, sawdust _____

-Landfill or offsite name/permit number? IF NEEDED: Pinegrove Landfill - Amanda, OH

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) James E. Amos

Company Official Title Senior Well Services Engineer

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MAR 30 2015

Subscribed and sworn before me this 10th day of February, 20 15

[Signature]

My commission expires 3/22/2015

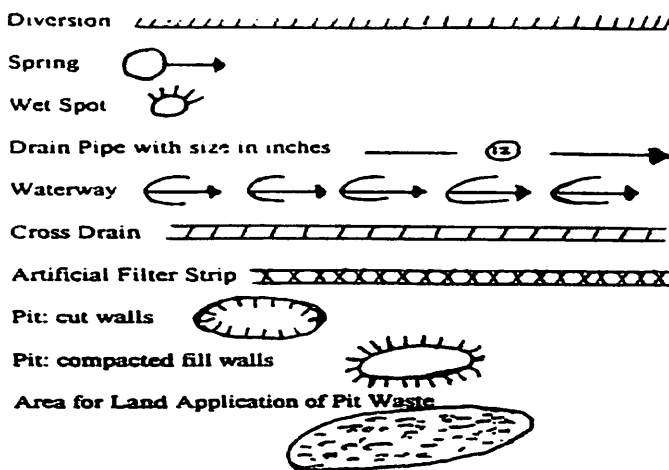
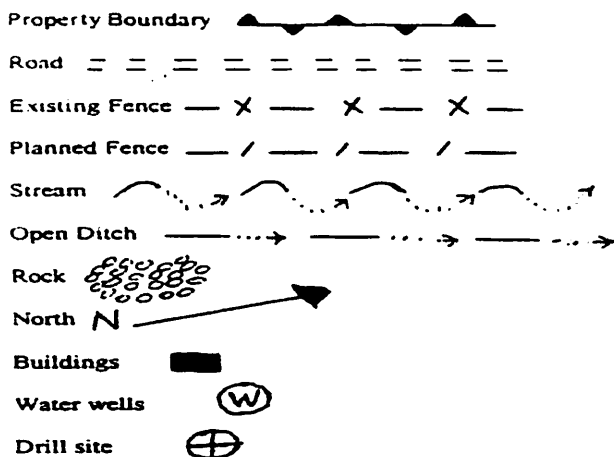
Notary Public



[Signature]
3/25/2015

06/05/2015

LEGEND



Proposed Revegetation Treatment: Acres Disturbed < 0.5 Prevegetation pH 6
 Lime 2 Tons/acre or to correct to pH 6.5
 Fertilizer (10-20-20 or equivalent) 500 lbs/acre (500 lbs minimum)
 Mulch 2 Tons/acre

Seed Mixtures

| Area I | | Area II | |
|---------------|----------|---------------|----------|
| Seed Type | lbs/acre | Seed Type | lbs/acre |
| Orchard Grass | 20 | Orchard Grass | 20 |
| Ledino Clover | 10 | Ledino Clover | 10 |
| Annual Rye | 20 | Annual Rye | 20 |

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

Photocopied section of involved 7.5' topographic sheet.

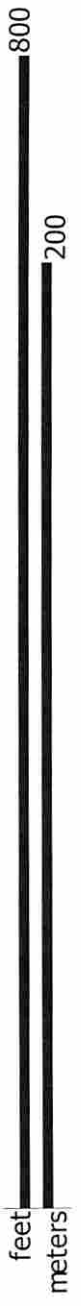
Plan Approved by: James S. Stevens, Jr.
 Comments: Existing well location built. been there before.

Title: County Inspector Date: 3/25/2015
 Field Reviewed? () Yes () No

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 Office of Oil & Gas
 MAR 30 2015

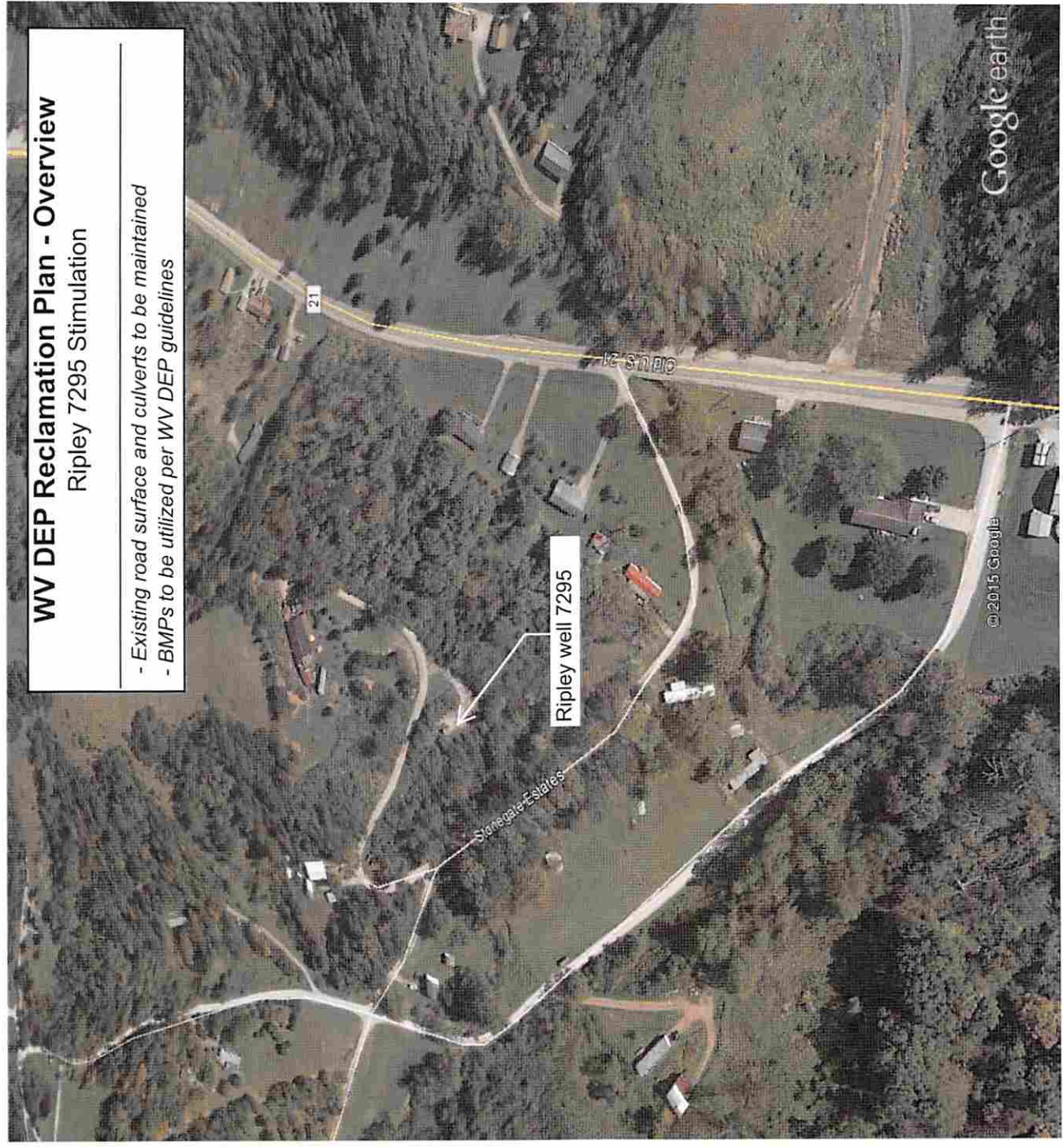
3500487W

Handwritten signature and date: 3/25/2015



WV DEP Reclamation Plan - Overview
 Ripley 7295 Stimulation

- Existing road surface and culverts to be maintained
 - BMPs to be utilized per WV DEP guidelines



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06/05/2015

WV DEP Reclamation Plan - Site Detail

Ripley 7295 Stimulation

- existing access surface material and drainage to be maintained
- BMPs to be utilized per WV DEP guidelines



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Office of Oil & Gas
MAR 30 2015

Google earth

06/05/2015

Handwritten signature and date: Ripley 7295 3/25/2015

3500487W



3500487 W

(PORTLAND)



038° 55' 00.79" N 081° 42' 00.00" W (POND CREEK) 081° 40' 00.00" W 081° 38' 53.55" W 038° 55' 00.79" N

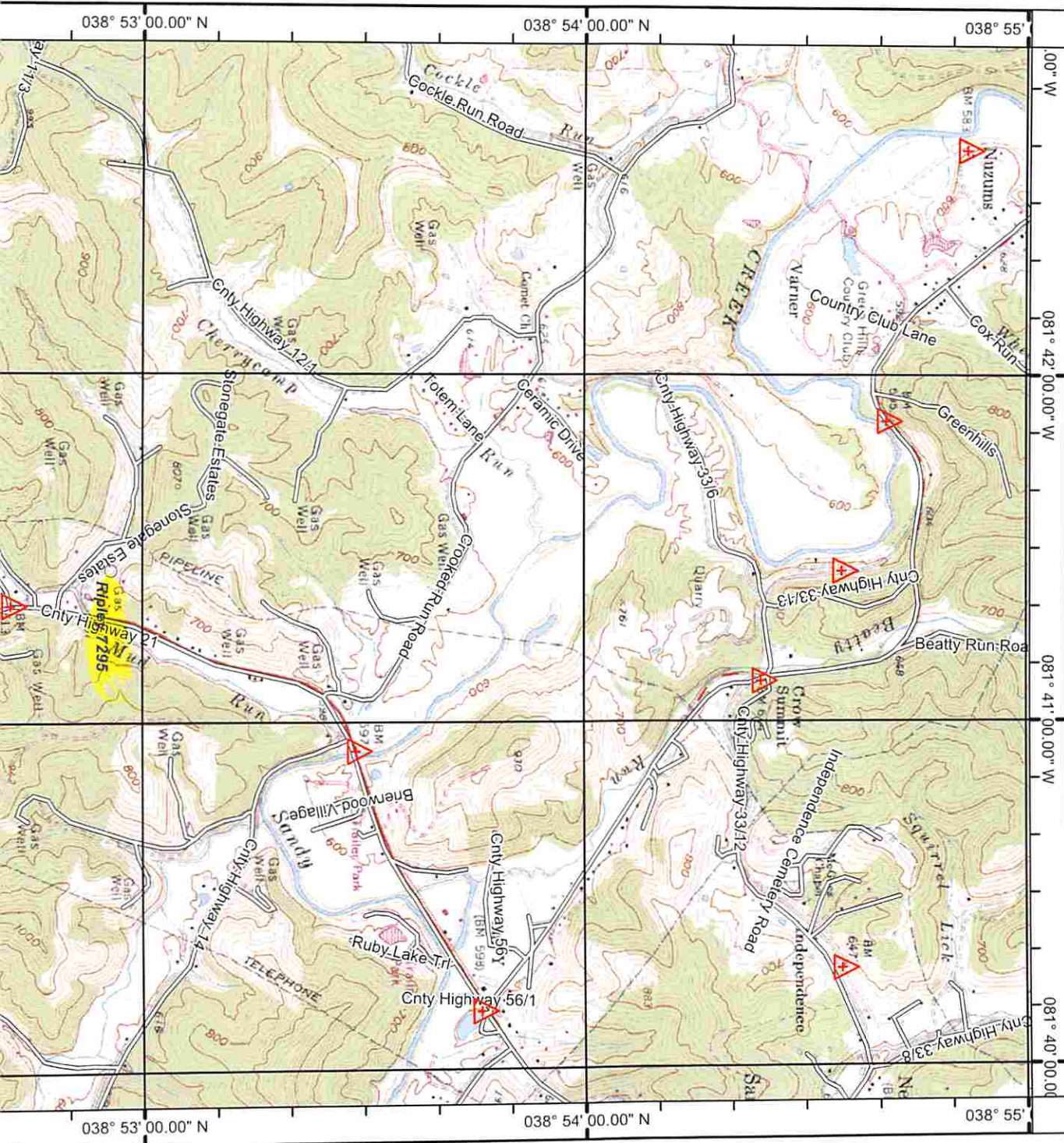
SANDYVILLE QUADRANGLE
WEST VIRGINIA
TOPOGRAPHIC SERIES

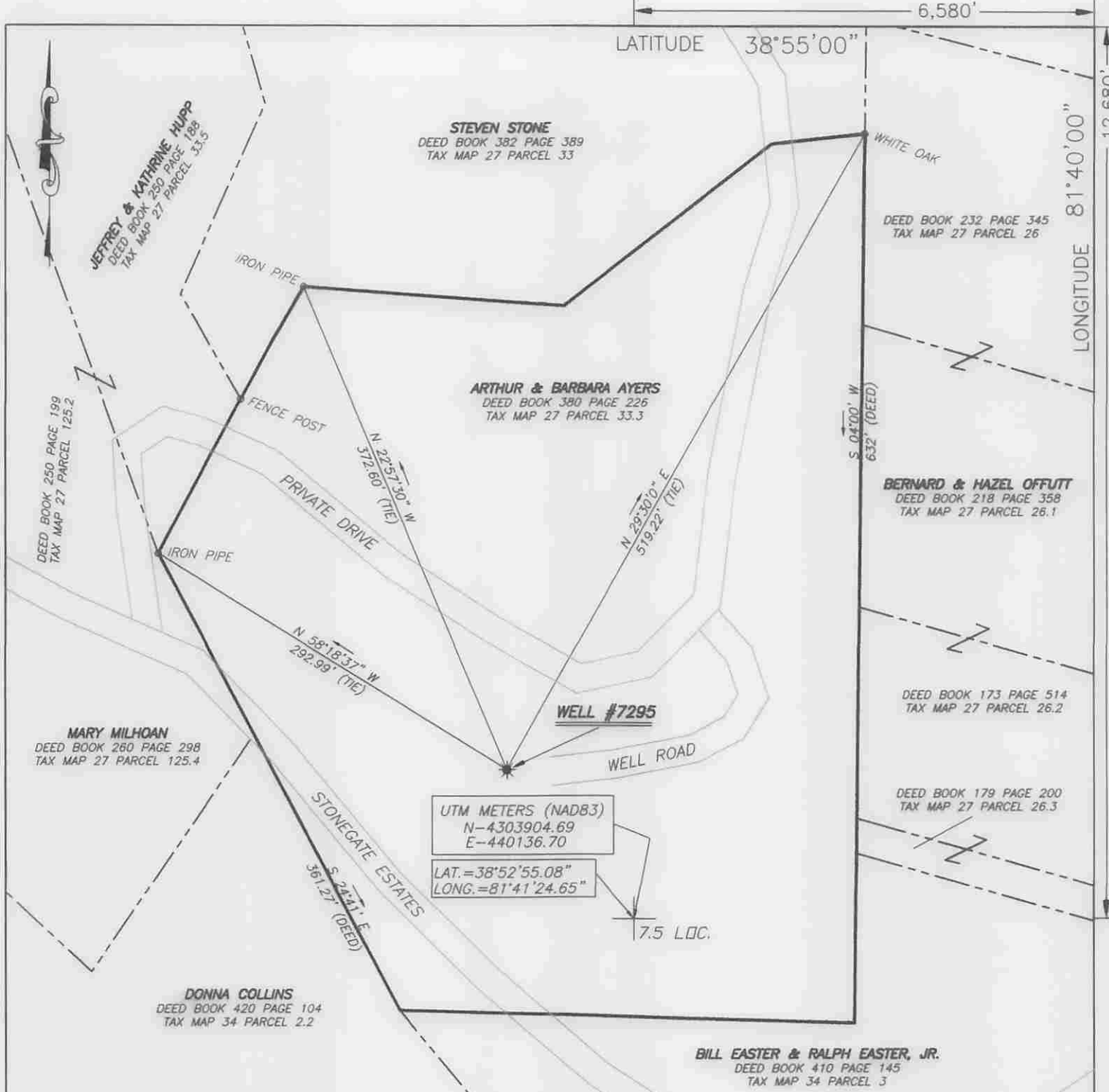
(ROCKPORT)

06/05/2015

(RAVENSWOOD)

(LIVERPOOL)





(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE No. 14-100-032
 DRAWING No. 14-100-032
 SCALE 1"=100'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION TRIMBLE PRO XH
 GPS UNIT

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION.
 (SIGNED) [Signature]
 RICHARD J. PRINE PS #851



STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS
 NITRO, WV

DATE JANUARY 21 20 15
 OPERATOR'S WELL No. 7295
 API WELL No. 47 0305 -00487

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 669 WATER SHED MUD RUN OF SANDY CREEK
 DISTRICT RAVENSWOOD COUNTY JACKSON
 QUADRANGLE SANDYVILLE

SURFACE OWNER ARTHUR & BARBARA AYRES ACREAGE 5.37
 OIL & GAS ROYALTY OWNER W.E. HUPP, ET AL LEASE ACREAGE 50
 LEASE No. 52783

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON CLEAN OUT AND REPLUG
 TARGET FORMATION ORISKANY ESTIMATED DEPTH 4871
 WELL OPERATOR COLUMBIA GAS TRANSMISSION, LLC DESIGNATED AGENT PAUL AMICK
 ADDRESS PO BOX 1273, CHARLESTON, WV ADDRESS P.O. BOX 1273, CHARLESTON W.V.
25325-1273 25325-1273

FORM IV-6 (8-78)

06/05/2015