



west virginia department of environmental protection

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

Jim Justice , Governor
Austin Caperton , Cabinet Secretary
www.dep.wv.gov

Wednesday, October 25, 2017
WELL WORK PERMIT
Vertical / Plugging

CONSOL GAS COMPANY
1000 CONSOL ENERGY DRIVE

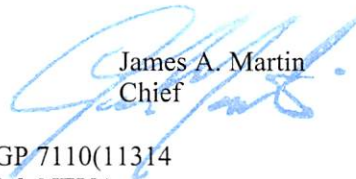
CANNONSBURG, PA 163176506

Re: Permit approval for CNGP 7110(11314
47-061-00326-00-00

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: CNGP 7110(11314
Farm Name: STALEY, DALE & NEVA
U.S. WELL NUMBER: 47-061-00326-00-00
Vertical / Plugging
Date Issued: 10/25/2017

Promoting a healthy environment.

10/27/2017

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.

1) Date _____, 2017
2) Operator's
Well No. 7110
3) API Well No. 47-061 - 00326

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 x or Underground storage ____) Deep ____/ Shallowx

5) Location: Elevation 613.127 METERS Watershed HEADWATERS THREE FORK CREEK
District Clinton County Monongalia Quadrangle MORGANTOWN SOUTH

6) Well Operator Consol Gas Company 7) Designated Agent Christopher Turner
Address 1000 Consol Energy Drive Address P.O. Box 1248
Canonsburg, PA 15317 Jane Lew, WV 26378

8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Gayne J Knitowski Name Coastal Drilling East LLC
Address P.O. Box 108 Address 70 Gums Springs Road
Gormanian WV 26720 Morgantown, WV 26508

10) Work Order: The work order for the manner of plugging this well is as follows:
See attached.

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

Work order approved by inspector Gayne J Knitowski Date 10/10/2017

10/27/2017

Staley, Dale #7110

Morgan, Monongalia County WV
 Original Completion: 09/20/1971
 API# 47-061-00326
 Elevation = 2010'

Procedure:

1. Load Hole/Kill Well, Pump 6% gel if necessary
2. Pull 2" Syphon Tubing (Total Tubing = 7888')
3. RIH with Bond Tool to verify TD, log out to verify 4 1/2" TOC (4 1/2" Casing Float @ 8134')
4. TIH with 2 3/8" Workstring and load the well with 6% Gel
5. Pump Class A Cement Plug from TD to 4 1/2" TOC (4 1/2" TOC est. @ 6700')
6. Verify TOC
7. RIH Jet Cut/Collar Bust 4 1/2" Casing above Bottom Hole Plug
8. Attempt to pull 4 1/2" Casing *at a min. 1 1/2 x string weight*
 - a. If unable to pull run bond long/free point and cut where free
9. TIH with 2 3/8" Workstring to 2200' and set Class A Cement Plug from 2200' to surface
 - a. This plug will cover Elevation @ 2010'
10. Install monument with Well Name, API#, & Company Name. Monument must extend 30" min. above ground level and be 6" in diameter.

11. Reclaim ASAP

NOTE: All Cement plugs will be Class A Cement, All Spacers between wells will be 6% Gel, Any casing unable to be recovered will be perforated every 100' with 4 shots and 100' cement plugs will be set to cover all cut points.

If it becomes necessary to deviate from this method, approval from the WV DEP Oil & Gas Division will be obtained before proceeding.

Work Order approved by Inspector: *Mary J. Kral*

Date: *10/10/2017*

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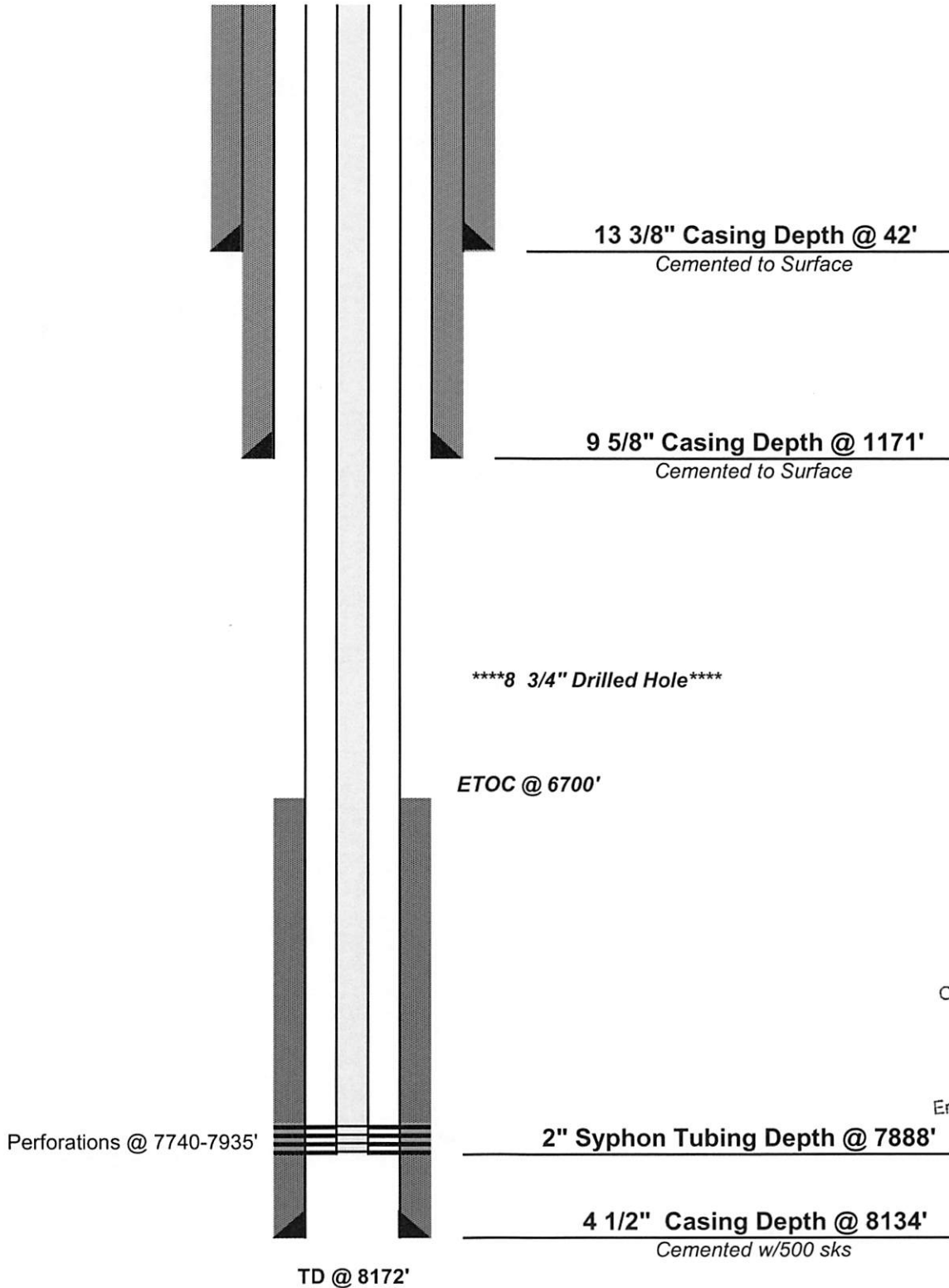
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WV Department of
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10/27/2017

4706100326P

Staley, Dale #7110
Morgan, Monongalia County WV
Original Completion : 09/20/1971
API # 47-061-00326
Elevation = 2010'



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Form OG-10



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION

OIL & GAS DIVISION
DEPT. OF MINES

Rotary
Spudder
Cable Tools
Storage

WELL RECORD

Quadrangle... MORGANTOWN
Permit No. MON-326

Oil or Gas Well Gas
(KIND)

Company CONSOLIDATED GAS SUPPLY CORPORATION
Address Clarksburg, W. Va.
Farm Dale Staley Acres 4.8
Location (waters) _____
Well No. 1131 Elev. 2010'
District Clinton County Monongalia
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by _____
Address _____
Drilling commenced 8-19-71
Drilling completed 9-20-71
Date Shot Not shot From _____ To _____
With _____
Open Flow 1/10ths Water in _____ Inch
1/10ths Merc. in _____ Inch
Volume 30,000 (Natural) Cu. Ft.
Rock Pressure 3200 lbs. 7 days hrs.
Oil None bbls. 1st 24 hrs.
WELL ACIDIZED (DETAILS) No
WELL FRACTURED (DETAILS) 10-27-71 With 50,000# sand, 2000 gal 28% acid, 1500 bbl water
1500# walnut hulls and 1000 HHP
RESULT AFTER TREATMENT (Initial open Flow or bbls.) 3,182,000 cu ft
ROCK PRESSURE AFTER TREATMENT 3275# None days
Fresh Water 42' Feet Salt Water None Feet
Producing Sand Chert Depth 7740-7935'

| Casing and Tubing | Used in Drilling | Left in Well | Packers |
|-----------------------------|------------------|----------------|----------------|
| Size | | | |
| 16 | | | Kind of Packer |
| 13 | <u>42</u> | <u>42</u> | |
| 10 <u>9-5/8"</u> | <u>1171</u> | <u>1171</u> | Size of |
| 8 3/4 | | | |
| 6 3/4 | | | Depth set |
| 5 3/16 | | | |
| 4 1/4 | <u>813 1/2</u> | <u>813 1/2</u> | |
| 3 | | | Perf. top |
| <u>2 syphon</u> | <u>7888</u> | <u>7888</u> | Perf. bottom |
| Liners Used | | | Perf. top |
| | | | Perf. bottom |

Attach copy of cementing record. 9" & 13" to surface
CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____
Amount of cement used (bags) 4 1/2" with 500 bags
Name of Service Co. Halliburton
COAL WAS ENCOUNTERED AT 73 FEET 60 INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES

| Formation | Color | Hard or Soft | Top | Bottom | Oil, Gas or Water | Depth | Remarks |
|-----------------|-------|--------------|------|--------|-------------------|------------|---------|
| Sand & Shale | | | 0 | 73 | Water | 42' | Fresh |
| Coal | | | 73 | 78 | | | |
| Sand & Shale | | | 78 | 350 | | | |
| Sand & Red Rock | | | 350 | 570 | | | |
| Lime | | | 570 | 2620 | | | |
| Shale | | | 2620 | 7330 | | | |
| Tully | | | 7330 | 7400 | | | |
| Shale | | | 7400 | 7725 | | | |
| ONONDAGA | | | 7725 | 7740 | | | |
| CHERT | | | 7740 | 7935 | Gas | 7740-7935' | |
| ORISKANY- | | | 7935 | 8020 | | | |
| TOTAL DEPTH | | | | 8172' | | | |

Consolidated Gas Supply Corporation
445 West Main Street
Clarksburg, W. Va.

All measurements taken from K.B. 16' above G.L.

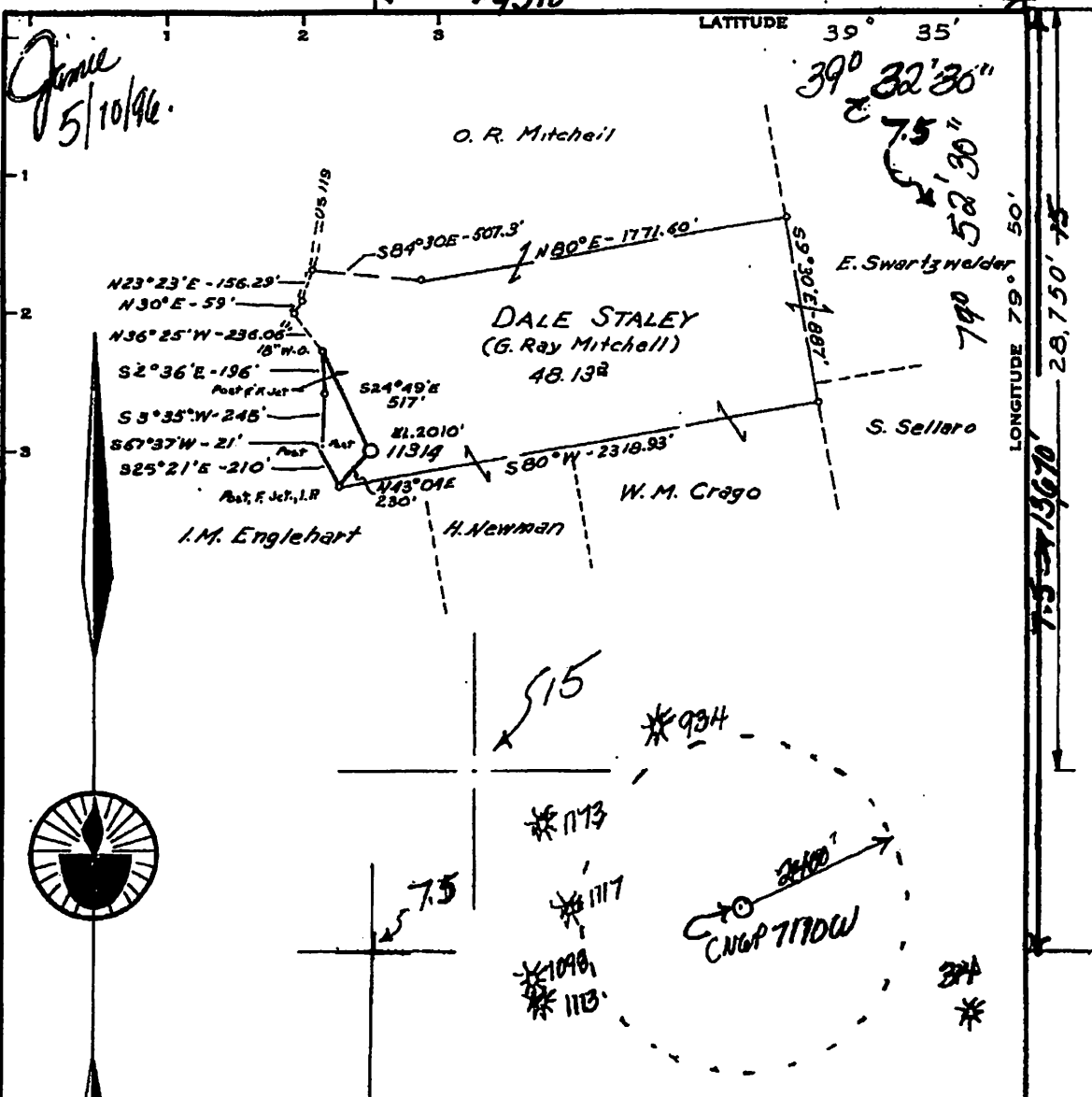
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10/27/2017

June 5/10/96.



Minimum Error of Closure 1' IN 200'
 Source of Elevation U.E. - ROAD FORKS MORGANTOWN
SOUTH 7 1/2 TOPO MAP ELEVATION -2060'

"I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."

- New Location
- Drill Deeper
- Abandonment

MAP SHEET 932 H-5

UNIT
 POOLED AREA 639.946
 FB 1600 Pgs. 13-19

Hope Gas Company
 P.O. Box 2868-Clarksburg, wva. 26301-

Form DALE STALEY

Tract _____ Acres 48.13 Lease No. 129360

Well (Farm) No. _____ Serial No. 11314

Elevation (Spirit Level) 2010'

Quadrangle MORGANTOWN 15 Morganston

County MONONGALIA District CLINTON

Engineer Jackson M. Jarvis

Engineer's Registration No. 2397

File No. _____ Drawing No. _____

Date 7-23-71 Scale 1" = 660'

WEST VIRGINIA Frax Canceled
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS
 110 McJUNKIN ROAD
 NITRO, WEST VIRGINIA 25143-2504

WELL LOCATION MAP
Original TD 8172' Drilled in 71
Original Well No. 47-061-003267
By consolidated log supplied
Production from 7100-7700'
Set time plus for Spachley pipe
Set and work done by...

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10/27/2017

WW-4A
Revised 6-07

1) Date: _____
2) Operator's Well Number
7110 _____
3) API Well No.: 47 - 061 - 00326

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

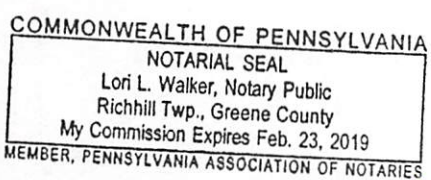
| | |
|---|---|
| 4) Surface Owner(s) to be served: | 5) (a) Coal Operator |
| (a) Name <u>NEVA B STALEY IRREVOCABLE TRUST</u> | Name <u>N/A</u> |
| Address <u>429 CALLEN AVE</u> | Address _____ |
| <u>MORGANTOWN WV 26501-6413</u> | |
| (b) Name _____ | (b) Coal Owner(s) with Declaration |
| Address _____ | Name <u>Neva B Staley Irrevocable Trust</u> |
| | Address <u>429 Callen Avenue</u> |
| | <u>Morgantown, WV 26501</u> |
| (c) Name _____ | Name _____ |
| Address _____ | Address _____ |
| | |
| 6) Inspector <u>Gayne J Knitowski</u> | (c) Coal Lessee with Declaration |
| Address <u>P.O. Box 108</u> | Name <u>N/A</u> |
| <u>Gormanian WV 26720</u> | Address _____ |
| Telephone <u>304-546-8171</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 Consol Gas Company
 By: Sarah Weigand *Sarah Weigand*
 Its: Permitting Manager
 Address 1000 Consol Energy Drive
Canonsburg, PA 15370
 Telephone 724-485-3244

Commonwealth of Pennsylvania
 County of *Washington*
 Subscribed and sworn before me this 28th day of September 2017
Lori L. Walker
 My Commission Expires February 23, 2019
 Notary Public

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 WV Department of
 Environmental Protection

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.

4706100326P

WW-9
(5/16)

API Number 47 - 061 - 00326
Operator's Well No. _____

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

Operator Name Consol Gas Company OP Code 494495754

Watershed (HUC 10) HEADWATERS THREE FORK CREEK Quadrangle MORGANTOWN SOUTH

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

Will a pit be used? Yes No

If so, please describe anticipated pit waste: _____

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

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection (UIC Permit Number _____)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain Waste Management or Ryan Environmental will use vacuum trucks, and properly dispose of any fluid or waste returns _____)

Will closed loop system be used? If so, describe: no

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

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

Additives to be used in drilling medium? na

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. na

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

-Landfill or offsite name/permit number? _____

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

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Company Official Signature Sarah Weigand

OCT 12 2017

Company Official (Typed Name) Sarah Weigand

Company Official Title Permitting Manager

WV Department of
Environmental Protection

Commonwealth of Pennsylvania County of Greene

Subscribed and sworn before me this 28th day of September, 2017

Lori L Walker Notary Public

My commission expires February 23, 2019

COMMONWEALTH OF PENNSYLVANIA
NOTARIAL SEAL
Lori L. Walker, Notary Public
Richhill Twp., Greene County
My Commission Expires Feb. 23, 2019
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

Operator's Well No. _____

Proposed Revegetation Treatment: Acres Disturbed less than 1 acre Prevegetation pH _____

Lime 2-3 Tons/acre or to correct to pH _____

Fertilizer type 10-20-20 or equivalent

Fertilizer amount 500 lbs/acre

Mulch hay or straw 2 Tons/acre

Seed Mixtures

| Temporary | | Permanent | |
|----------------|----------|----------------|----------|
| Seed Type | lbs/acre | Seed Type | lbs/acre |
| Tall Fescue | 40 | Tall Fescue | 40 |
| Landino Clover | 5 | Landino Clover | 5 |

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: _____

Maime J. Kintan

Comments: _____

- Remain site ASAP

- Install soil erosion measures along access road and well site AS needed.

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Title: Inspector

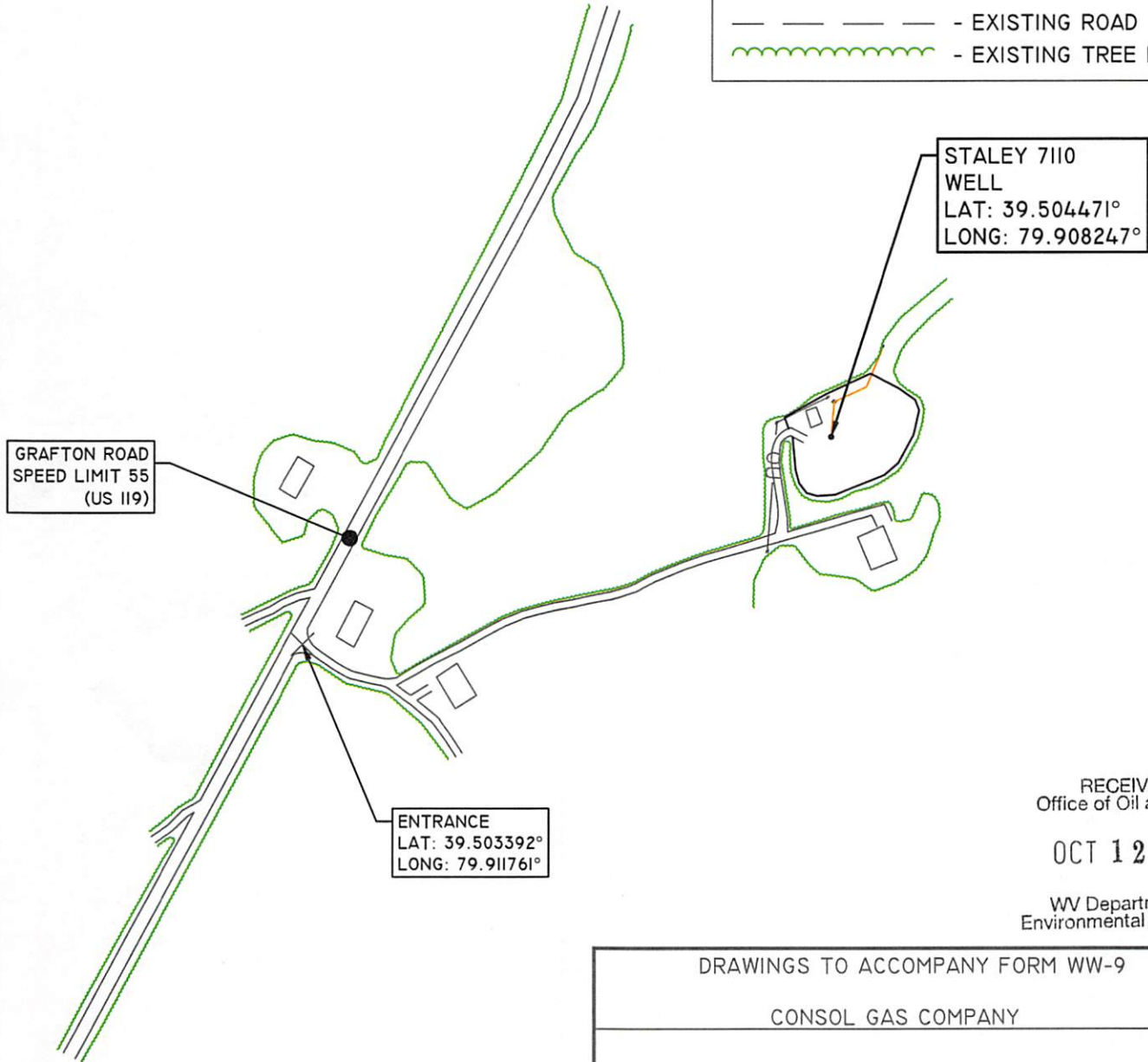
Date: 10/10/2017

Field Reviewed? () Yes () No

THIS PLAN IS FOR THE PLUGGING OF AN EXISTING WELL. ENTIRE LENGTH OF ACCESS IS EXISTING WELL ROAD. ROCK WILL BE USED WHERE NECESSARY.

LEGEND

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



STALEY 7110
WELL
LAT: 39.504471°
LONG: 79.908247°

GRAFTON ROAD
SPEED LIMIT 55
(US 119)

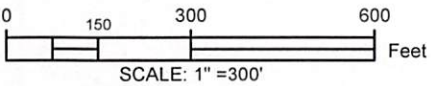
ENTRANCE
LAT: 39.503392°
LONG: 79.911761°

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| | |
|---------------------------------|---------------------------------------|
| DRAWINGS TO ACCOMPANY FORM WW-9 | |
| CONSOL GAS COMPANY | |
| 200 HALLAM ROAD | |
| WASHINGTON, PA 15301 | |
| WATERSHED: | HEADWATERS THREE FORK CREEK |
| DISTRICT: | CLINTON COUNTY: MONONGALIA |
| QUADRANGLE: | MORGANTOWN SOUTH WELL NO: STALEY 7110 |
| DATE: | 07/19/2017 PAGE 1 OF 4 |



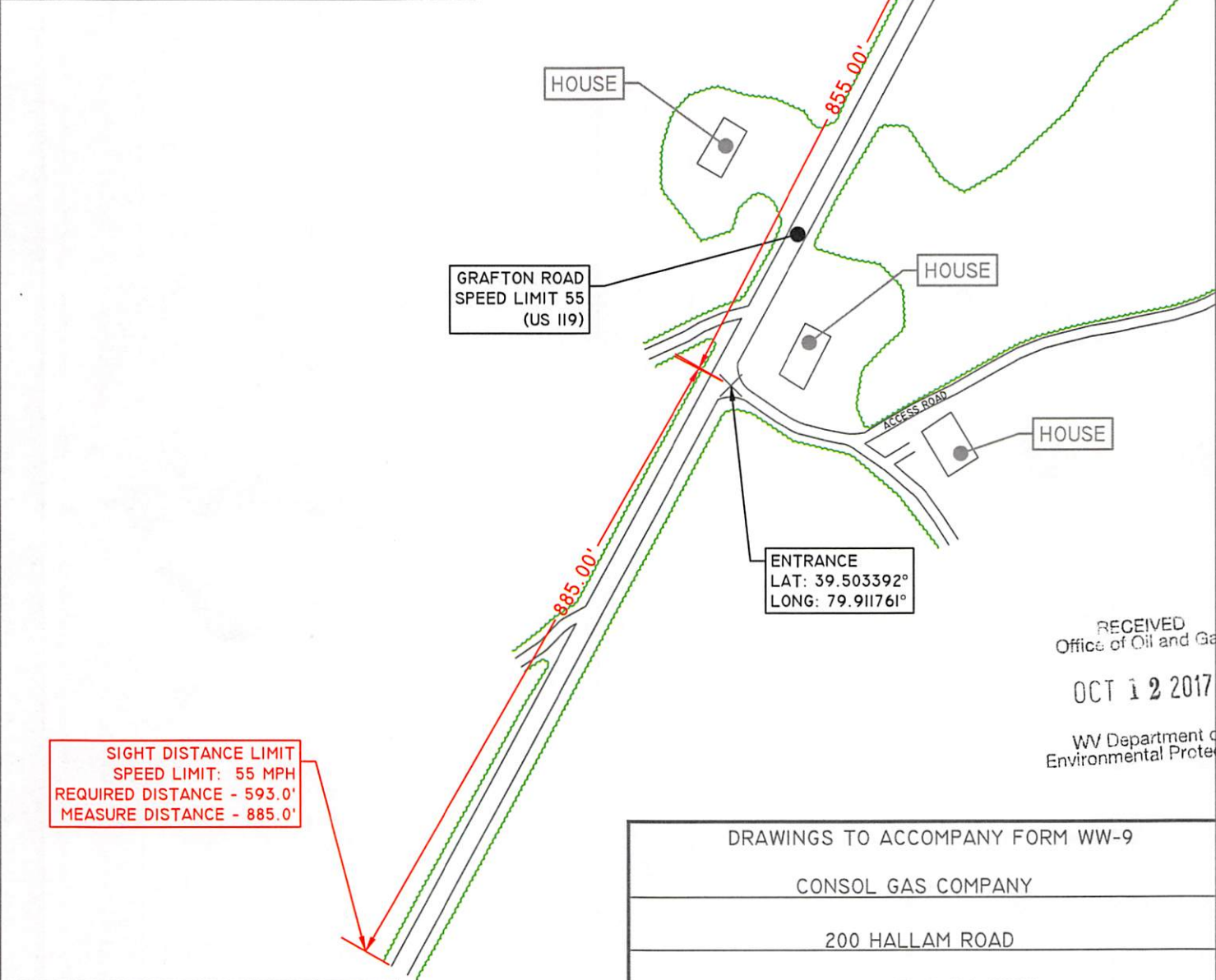
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LEGEND

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

SIGHT DISTANCE LIMIT
SPEED LIMIT: 55 MPH
REQUIRED DISTANCE - 593.0'
MEASURE DISTANCE - 855.0'

SIGHT DISTANCE LIMIT
SPEED LIMIT: 55 MPH
REQUIRED DISTANCE - 593.0'
MEASURE DISTANCE - 885.0'



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DRAWINGS TO ACCOMPANY FORM WW-9

CONSOL GAS COMPANY

200 HALLAM ROAD

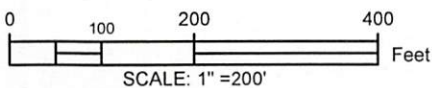
WASHINGTON, PA 15301

WATERSHED: HEADWATERS THREE FORK CREEK

DISTRICT: CLINTON COUNTY: MONONGALIA

QUADRANGLE: MORGANTOWN SOUTH WELL NO: STALEY 7110

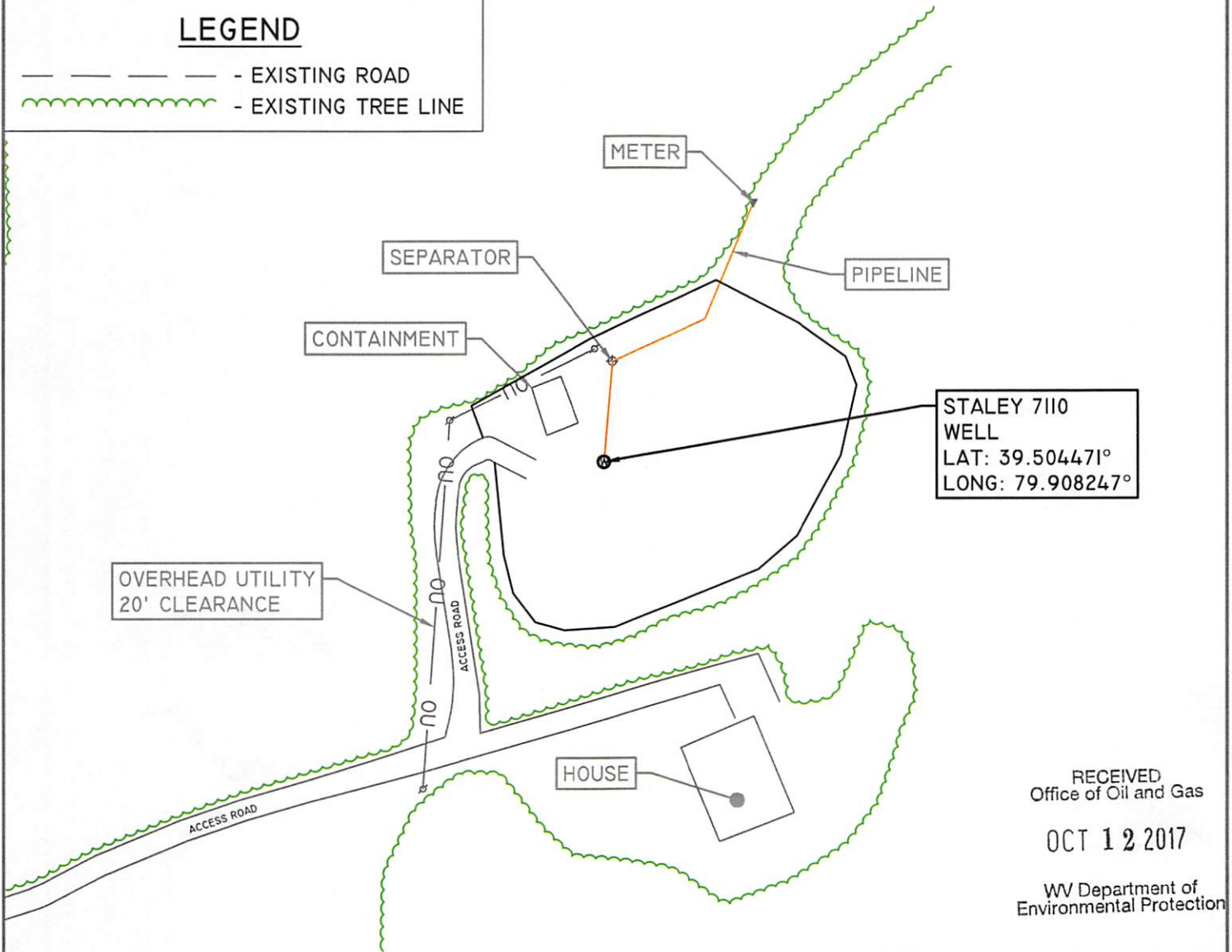
DATE: 07/19/2017 PAGE 2 OF 4



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LEGEND

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



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DRAWINGS TO ACCOMPANY FORM WW-9

CONSOL GAS COMPANY

200 HALLAM ROAD

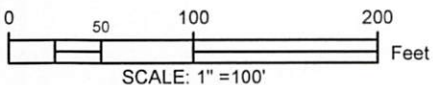
WASHINGTON, PA 15301

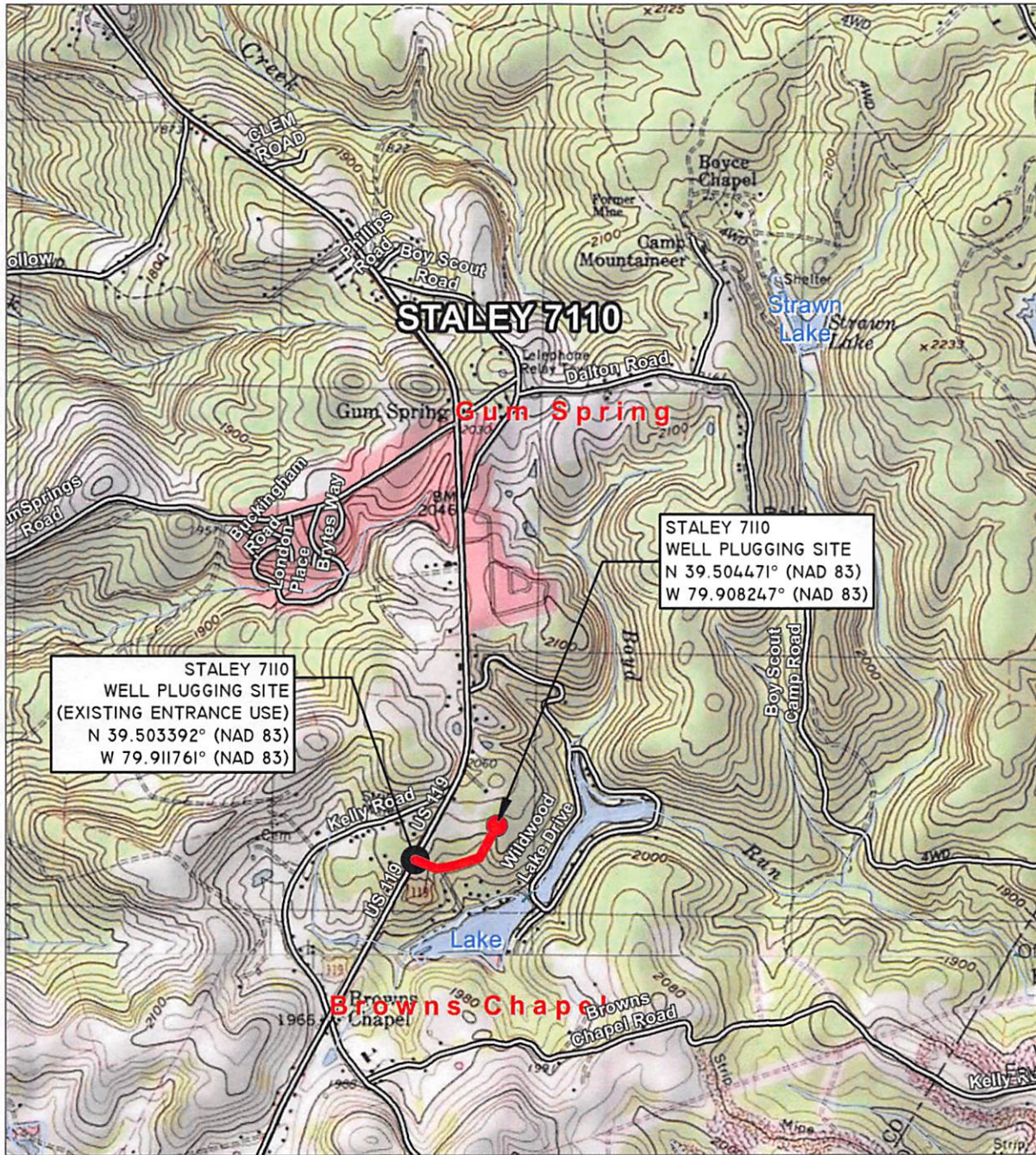
WATERSHED: HEADWATERS THREE FORK CREEK

DISTRICT: CLINTON COUNTY: MONONGALIA

QUADRANGLE: MORGANTOWN SOUTH WELL NO: STALEY 7110

DATE: 07/19/2017 PAGE 3 OF 4





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LOCATION MAP
MORGANTOWN SOUTH, WV 7.5M USGS QUADRANGLE
SCALE: 1"=2000'



Blue Mountain Inc.
Engineers and Land Surveyors
Woman Owned Small Business
11023 Mason Dixon Hwy.
Burton, WV 26562-9656
(304) 662-6486

LOCATION MAP
GAS WELL PLUGGING
STALEY 7110 GAS WELL
CLINTON DISTRICT
MONONGALIA COUNTY, WV
CONSOL GAS COMPANY
200 HALLAM ROAD
WASHINGTON, PA 15301

| |
|---|
| DRAWN BY: LLF |
| CHECKED BY: WPF |
| DATE: 07/19/2017 |
| SCALE: 1"=2000' |
| WATERSHED: HEADWATERS THREE FORK CREEK |
| PAGE 4 OF 4 |

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-061-00326 WELL NO.: 7110

FARM NAME: Staley

RESPONSIBLE PARTY NAME: Sarah Weigand

COUNTY: Monongalia DISTRICT: Clinton

QUADRANGLE: Morgantown South

SURFACE OWNER: Neva B Staley Irrevocable Trust

ROYALTY OWNER: _____

UTM GPS NORTHING: 4,373,329.616 METERS

UTM GPS EASTING: 593,862.928 METERS GPS ELEVATION: 613.127 METERS (2011')

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.

Sarah Weigand
Signature

Permitting Manager
Title

9/28/17
Date

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Environmental Protection