



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

Friday, September 15, 2017
WELL WORK PERMIT
Vertical / Plugging

CONSOL GAS COMPANY
1000 CONSOL ENERGY DRIVE

CANNONSBURG, PA 163176506

Re: Permit approval for 11701
47-061-00337-00-00

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: 11701
Farm Name: GREER STEEL
U.S. WELL NUMBER: 47-061-00337-00-00
Vertical / Plugging
Date Issued: 9/15/2017

Promoting a healthy environment.

09/15/2017

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.

6100337P

1) Date _____, 2017
2) Operator's
Well No. 7122
3) API Well No. 47-061 - 00337

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 2012.7 Watershed Outlet Deckers Creek
District Morgan County Monongalia Quadrangle Masontown


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 Name Gayne J Knitowski
Address P.O. Box 108
Gormanian WV 26720
9) Plugging Contractor Name Coastal Drilling East LLC
Address 70 Gums Springs Road
Morgantown, WV 26508

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

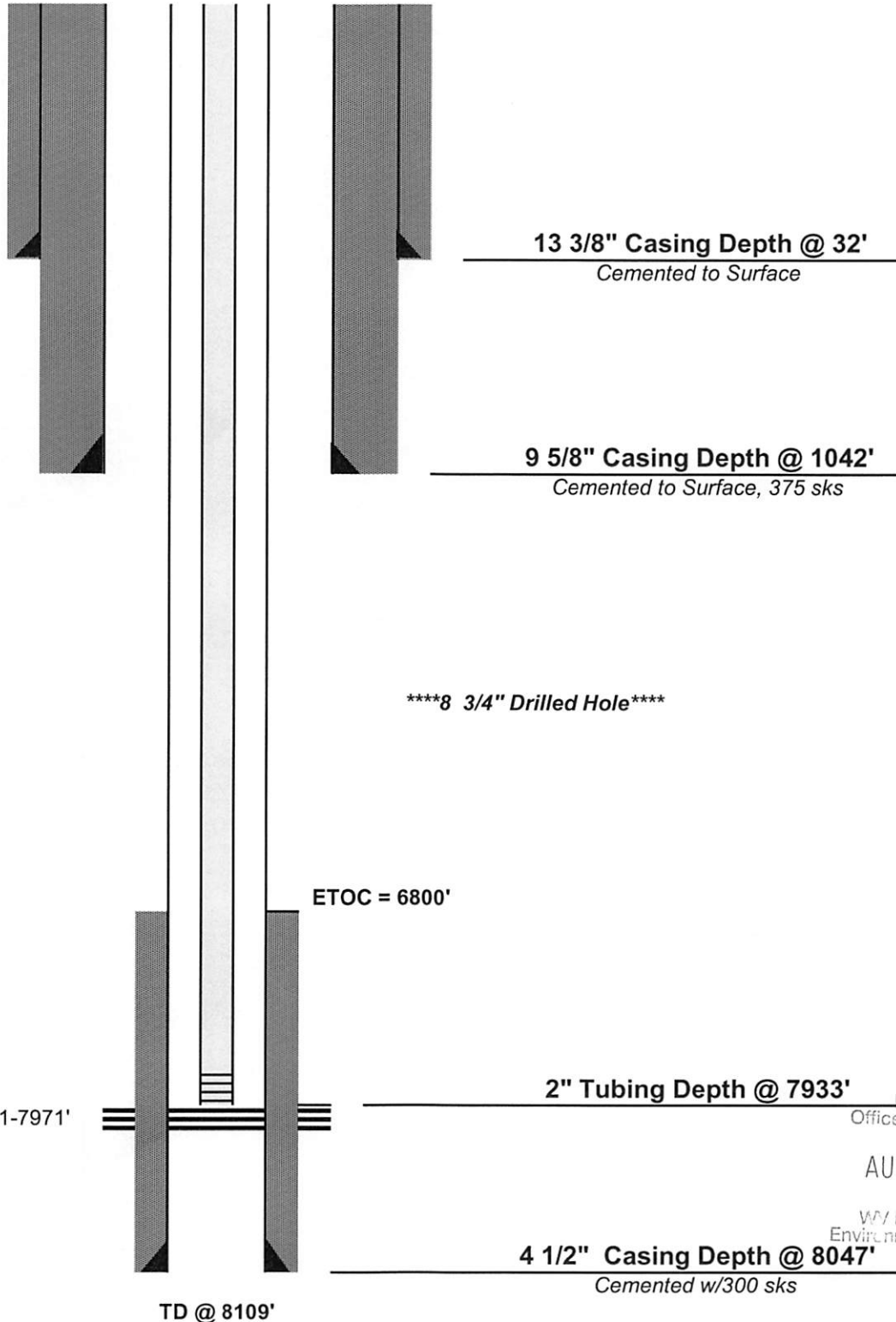
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Environmental Protection

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

Work order approved by inspector  Date 8/18/2017

09/15/2017

Greer Steel #7122
Morgan, Monongalia County WV
Original Completion : 08/09/1974
API # 47-061-00337
Elevation = 1996'



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Greer Steel #7122

Morgan, Monongalia County WV
Original Completion: 08/09/1974
API# 47-061-00337
Elevation = 1996'

Procedure:

1. Load Hole/Kill Well, Pump 6% gel if necessary
2. Pull 2" Tubing out of Well (7933' of 2" Tubing)
3. RIH with Bond Tool to verify TD, log out to verify 4 1/2" TOC (4 1/2" Casing Float @ 8047')
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. @ 6800')
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
 - a. If unable to pull run bond long/free point and cut where free
9. TIH with 2 3/8" Workstring to 2500' and set Class A Cement Plug from 2500' to surface
 - a. This plug will cover Elevation @ 1996'
10. Install monument with Well Name, API#, & Company Name. Monument must extend 30" min. above ground level and be 6" in diameter.

SET 100' CLASS A CEMENT
PLUG ACROSS 4 1/2" CASING
CUT - gum

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: Garrett K. W. Date: 8/18/2017

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STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division
WELL RECORD

Quadrangle Morgantown
Permit No. MOR-337

Rotary X Oil _____
Cable _____ Gas X
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Rind) _____

Company Consolidated Gas Supply Corp.
Address Clarksburg, WV
Farm Greer Steel Co. Acres 154.34
Location (waters) Deckers Creek
Well No. 11701 Elev. 1996
District Morgan County Monongalia
The surface of tract is owned in fee by Greer Steel Co.
Address Morgantown, WV
Mineral rights are owned by Same
Address _____
Drilling Commenced 7-16-74
Drilling Completed 8-9-74
Initial open flow _____ cu. ft. _____ bbls.
Final production 1600 M cu. ft. per day _____ bbls.
Well open 11 days hrs. before test 3046# RP.
Well treatment details:

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-50K	32	32	To Surface
9 5/8	1042	1042	375 SKS
8 5/8			
7			
5 1/2			
4 1/2	8047	8047	300 SKS
3			
2	7933	7933	
Liners Used			

Attach copy of cementing record.

Fractured 10-3-74. Loaded hole with 1000 gal. hyd. acid. 1st stage with 1115 bbl. 5% hyd. acid. Trilled in 750# walnut shells. 2nd stage with 1000 gal. 20% hyd. acid, 625 bbl. 5% hyd. acid. Trilled in 750# walnut shells. Perf. 7891-7911, 5 holes; 7901-14, 13 holes; 7922-27, 5 holes; 7940-53, 13 holes; 7958-71, 13 holes.

Coal was encountered at _____ Feet _____ Inches
Fresh water 29, 45, 760 Feet _____ Salt Water _____ Feet _____
Producing Sand _____ Chert _____ Depth 7891-7971

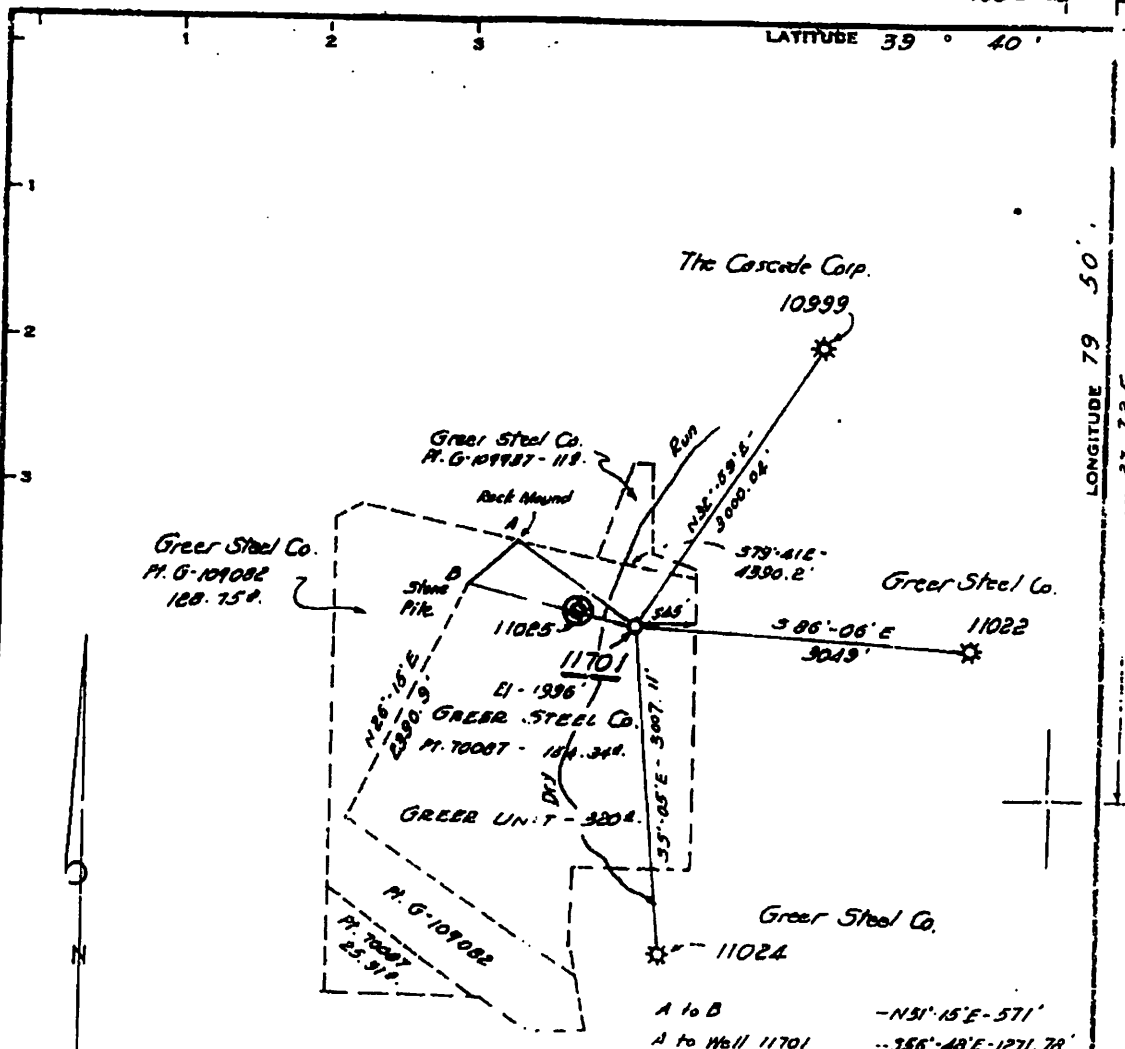
Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Electric Log						
Greenbrier			403	62		
Speechley			2389	2412		
Benson			3870	3908		
Tully			7286	7390		
Onondaga			7835	7881		
Chert			7881			
Total Depth				8109 G.L.		

K. B. Measurement 16' above G.L.

(over)

* Indicates Electric Log tops in the remarks section.

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A to B - N31°15'E-571'
 A to Well 11701 - S56°48'E-1271.78'
 B to Well 11701 - S77°21'E-1547.42'
 J Dist. to Unit Line - East - 545'
 Well 11025 to Well 11701 - S79°25'E-518'

Minimum Error of Closure: 1' IN 200'
 Source of Elevation: B.M. - CONSOLIDATED GAS SUPPLY CORP.
 WELL NO. 11025 - ELEV. 1952'
 "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 - 933 C-2
 FB 1674 Pg. 39
 FB 1647 Pg. 10-13

Company CONSOLIDATED GAS SUPPLY CORP.
 Address CLARKSBURG, W. VA.
 Farm GREER STEEL CO.
 Tract _____ Acres 154.34 Lease No. PT. 70087
 Well (Farm) No. _____ Serial No. 11701
 Elevation (Spirit Level) 1996
 Quadrangle MORGANTOWN "C"
 County MORGAN District MORGAN
 Engineer JACKSON M. JARVIS
 Engineer's Registration No. 2397
 File No. _____ Drawing No. _____
 Date Nov. 28, 1973 Scale 1" = 1920'

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

WELL LOCATION MAP
 FILE NO. MON-337

1 Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.
 -- Denotes one inch spaces on border line of original tracing.

47 061

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 WV Department of Environmental Protection

09/15/2017

WW-4A
Revised 6-07

1) Date: _____
2) Operator's Well Number
7122
3) API Well No.: 47 - 061 - 00337

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>GREER STEEL COMPANY</u>	Name <u>N/A</u>
Address <u>PO BOX 1900</u>	Address _____
<u>MORGANTOWN, WV 26507-1900</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Greer Industries, Inc.</u>
_____	Address <u>PO Box 1900</u>
_____	<u>Morgantown, WV 26507-1900</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	<u>Consol Gas Company</u>	
By:	<u>Erika Whetstone</u>	<u>Erika Whetstone</u> RECEIVED
Its:	<u>Permitting Supervisor</u>	Office of Oil and Gas
Address	<u>1000 Consol Energy Drive</u>	<u>AUG 23 2017</u>
	<u>Canonsburg, PA 15370</u>	
Telephone	<u>724-485-4035</u>	WV Department of Environmental Protection

Subscribed and sworn before me this 11th day of August 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

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 depprivacyoffier@wv.gov.

09/15/2017

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) OUTLET DECKERS CREEK Quadrangle MASONTOWN

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.

Company Official Signature Erika Whetstone

Company Official (Typed Name) Erika Whetstone

Company Official Title Permitting Supervisor

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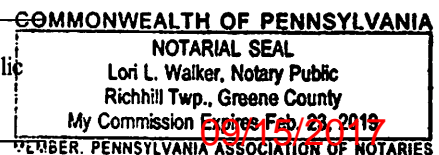
WV Department of
Environmental Protection

Subscribed and sworn before me this 11th day of August, 2017

Lori L Walker

Notary Public

My commission expires February 23, 2019



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
Tall Fescue	40
Landino Clover	5

Seed Type	lbs/acre
Tall Fescue	40
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: Hayme J. Smith

Comments: Reclaim SITE ASAP

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Title: Inspector

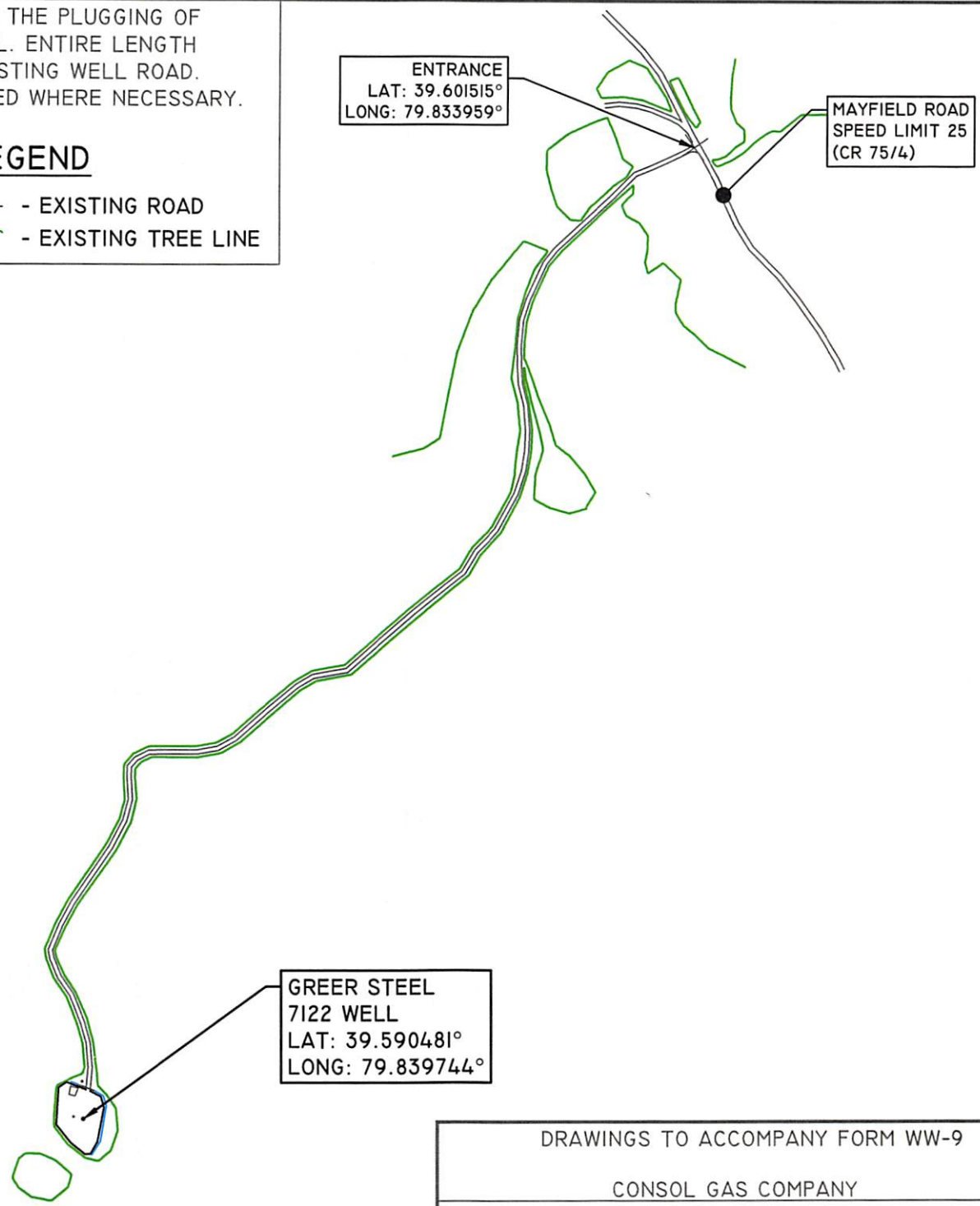
Date: 8/18/2017

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



A north arrow pointing upwards, enclosed in a circle with the letters 'N' and 'W' visible. Below the arrow is a scale bar marked from 0 to 1200 feet, with increments at 300, 600, and 1200. The text 'SCALE: 1" = 600\'' is printed below the scale bar.

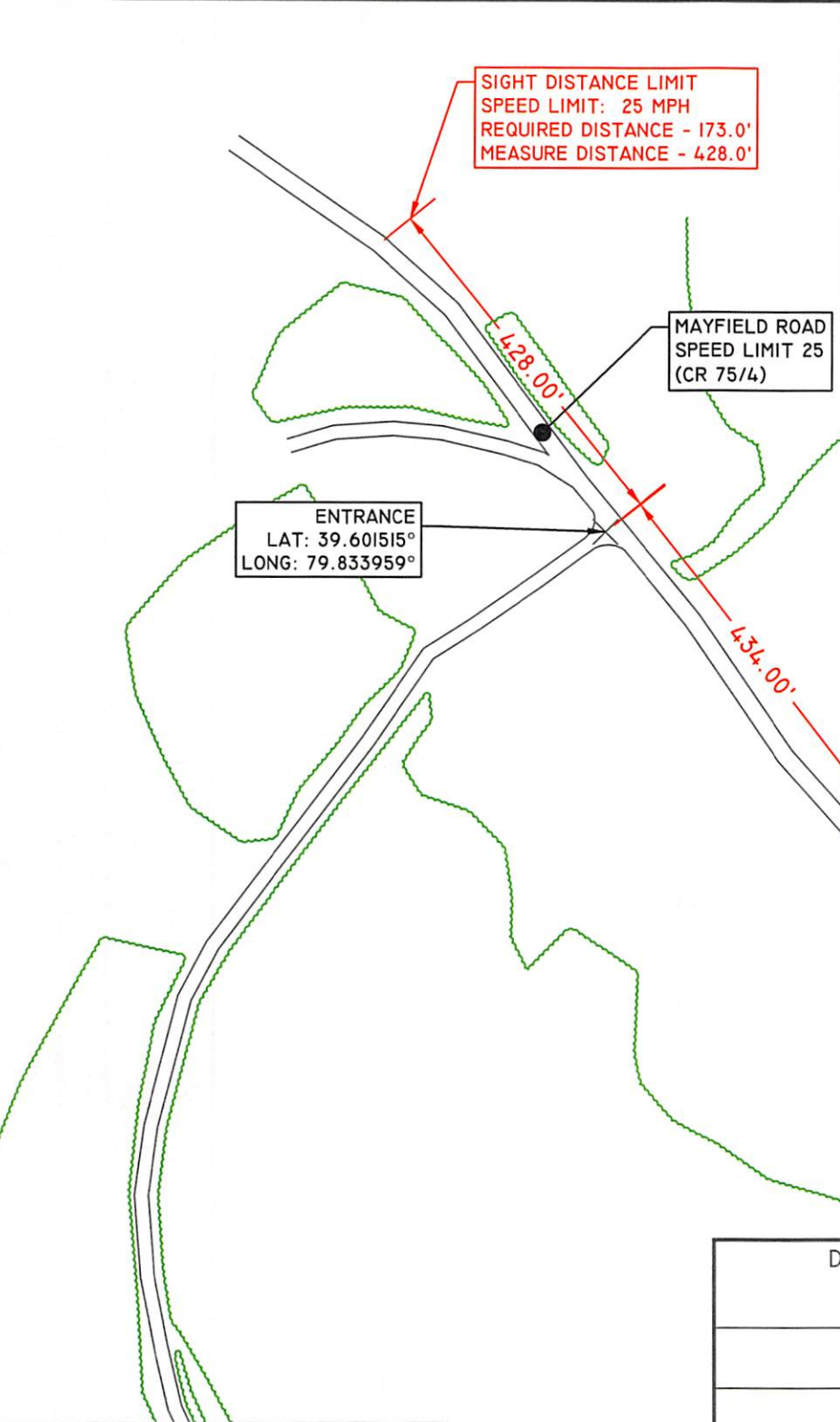
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DRAWINGS TO ACCOMPANY FORM WW-9	
CONSOL GAS COMPANY	
200 HALLAM ROAD	
WASHINGTON, PA 15301	
WATERSHED:	OUTLET DECKERS CREEK
DISTRICT: MORGAN	COUNTY: MONONGALIA
QUADRANGLE: MASONTOWN	WELL NO: 7122
DATE: 07/21/2017	PAGE 1 OF 4
09/15/2017	

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

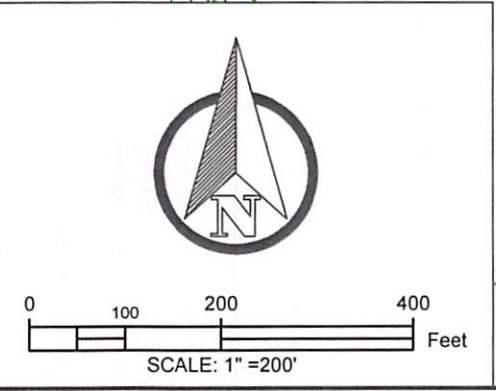


SIGHT DISTANCE LIMIT  
 SPEED LIMIT: 25 MPH  
 REQUIRED DISTANCE - 173.0'  
 MEASURE DISTANCE - 428.0'

MAYFIELD ROAD  
 SPEED LIMIT 25  
 (CR 75/4)

ENTRANCE  
 LAT: 39.601515°  
 LONG: 79.833959°

SIGHT DISTANCE LIMIT  
 SPEED LIMIT: 25 MPH  
 REQUIRED DISTANCE - 173.0'  
 MEASURE DISTANCE - 434.0'



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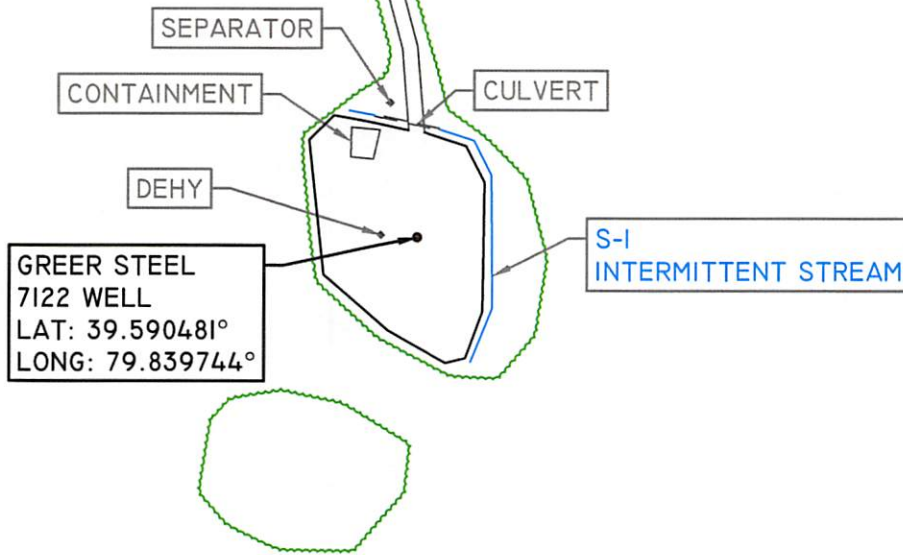
|                                 |                           |
|---------------------------------|---------------------------|
| DRAWINGS TO ACCOMPANY FORM WW-9 |                           |
| CONSOL GAS COMPANY              |                           |
| 200 HALLAM ROAD                 |                           |
| WASHINGTON, PA 15301            |                           |
| WATERSHED:                      | OUTLET DECKERS CREEK      |
| DISTRICT:                       | MORGAN COUNTY: MONONGALIA |
| QUADRANGLE:                     | MASONTOWN WELL NO: 7122   |
| DATE:                           | 07/21/2017 PAGE 2 OF 4    |
| <b>09/15/2017</b>               |                           |



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



DRAWINGS TO ACCOMPANY FORM WW-9

CONSOL GAS COMPANY

200 HALLAM ROAD

WASHINGTON, PA 15301

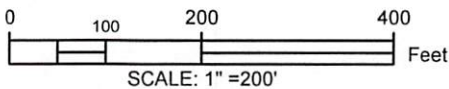
WATERSHED: OUTLET DECKERS CREEK

DISTRICT: MORGAN COUNTY: MONONGALIA

QUADRANGLE: MASONTOWN WELL NO: 7122  
GREER STEEL

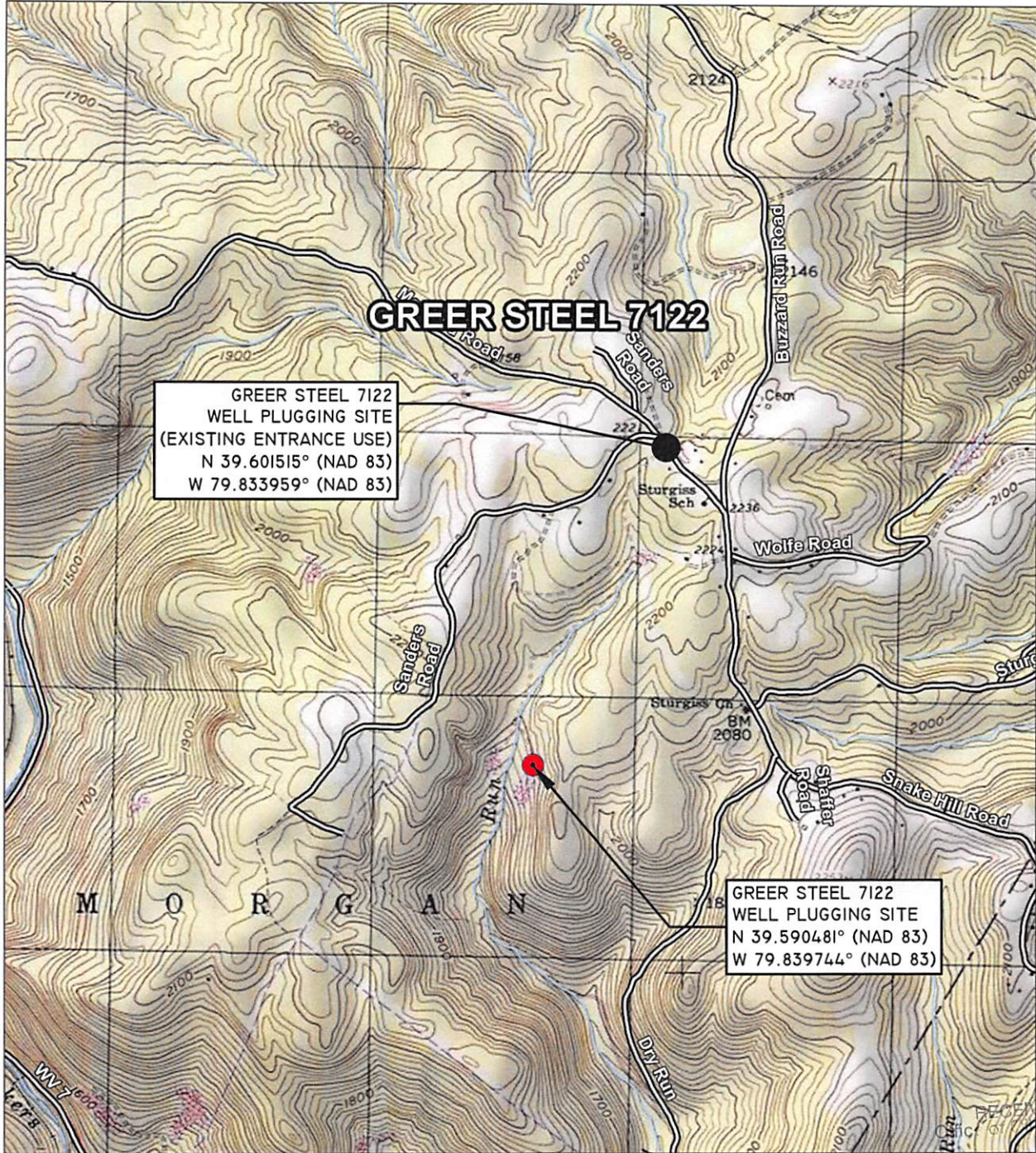
DATE: 07/21/2017 PAGE 3 OF 4

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GREER STEEL 7122  
WELL PLUGGING SITE  
(EXISTING ENTRANCE USE)  
N 39.601515° (NAD 83)  
W 79.833959° (NAD 83)

GREER STEEL 7122  
WELL PLUGGING SITE  
N 39.590481° (NAD 83)  
W 79.839744° (NAD 83)

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and Gas  
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LOCATION MAP  
MASONTOWN, 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  
GREER STEEL 7122 GAS WELL  
MORGAN DISTRICT  
MONONGALIA COUNTY, WV  
CONSOL GAS COMPANY  
200 HALLAM ROAD  
WASHINGTON, PA 15301

|                                    |
|------------------------------------|
| DRAWN BY: LLF                      |
| CHECKED BY: WPF                    |
| DATE: 07/21/2017                   |
| SCALE: 1"=2000'                    |
| WATERSHED:<br>OUTLET DECKERS CREEK |
| PAGE 4 OF 4                        |



