



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, December 06, 2017
WELL WORK PERMIT
Vertical / Plugging

CONSOL GAS COMPANY
1000 CONSOL ENERGY DRIVE

CANNONSBURG, PA 163176506

Re: Permit approval for 11646
47-061-00332-00-00

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: 11646
Farm Name: GREER STEEL
U.S. WELL NUMBER: 47-061-00332-00-00
Vertical / Plugging
Date Issued: 12/6/2017

Promoting a healthy environment.

12/08/2017

I

4706100332P

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.

12/08/2017

4706100332

- 1) Date _____, 2017
- 2) Operator's
Well No. 7120
- 3) API Well No. 47-061 - 00332

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 631.055 METERS Watershed BULL RUN-CHEAT RIVER
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 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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OCT 12 2017
WV Department of
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 10/10/2017

12/08/2017

Greer Steel #7120

Morgan, Monongalia County, WV
Original Completion: 08/22/1973
API# 47-061-00332
Elevation = 2072'

Procedure:

1. Load Hole/Kill Well, Pump 6% gel if necessary
2. RIH with Bond Tool to verify TD, log out to verify 4 1/2" TOC (4 1/2" Casing @ 8077')
3. TIH with 2 3/8" Workstring and load the well with 6% Gel
4. Pump Class A Cement Plug from TD to 4 1/2" TOC (4 1/2" TOC est. @ 6800')
5. Verify TOC , *ADD CEMENT IF NEEDED.*
6. RIH Jet Cut/Collar Bust 4 1/2" Casing above Bottom Hole Plug
7. Attempt to pull 4 1/2" Casing *with min 1 1/2 x string weight*
 - a. If unable to pull run bond long/free point and cut where free
8. *7 5/8" WAS NOT CTS. yam*
RIH with Bond Tool to confirm the 7 5/8" casing was cemented to surface
9. TIH with 2 3/8" Workstring to 2600' and set Class A Cement Plug from 2600' to surface
 - a. This plug will cover Elevation at 2072'
10. Install monument with Well Name, API#, & Company Name. Monument must extend 30" min. above ground level and be 6" in diameter.

11. Reclaim SITE 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 *7* 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.

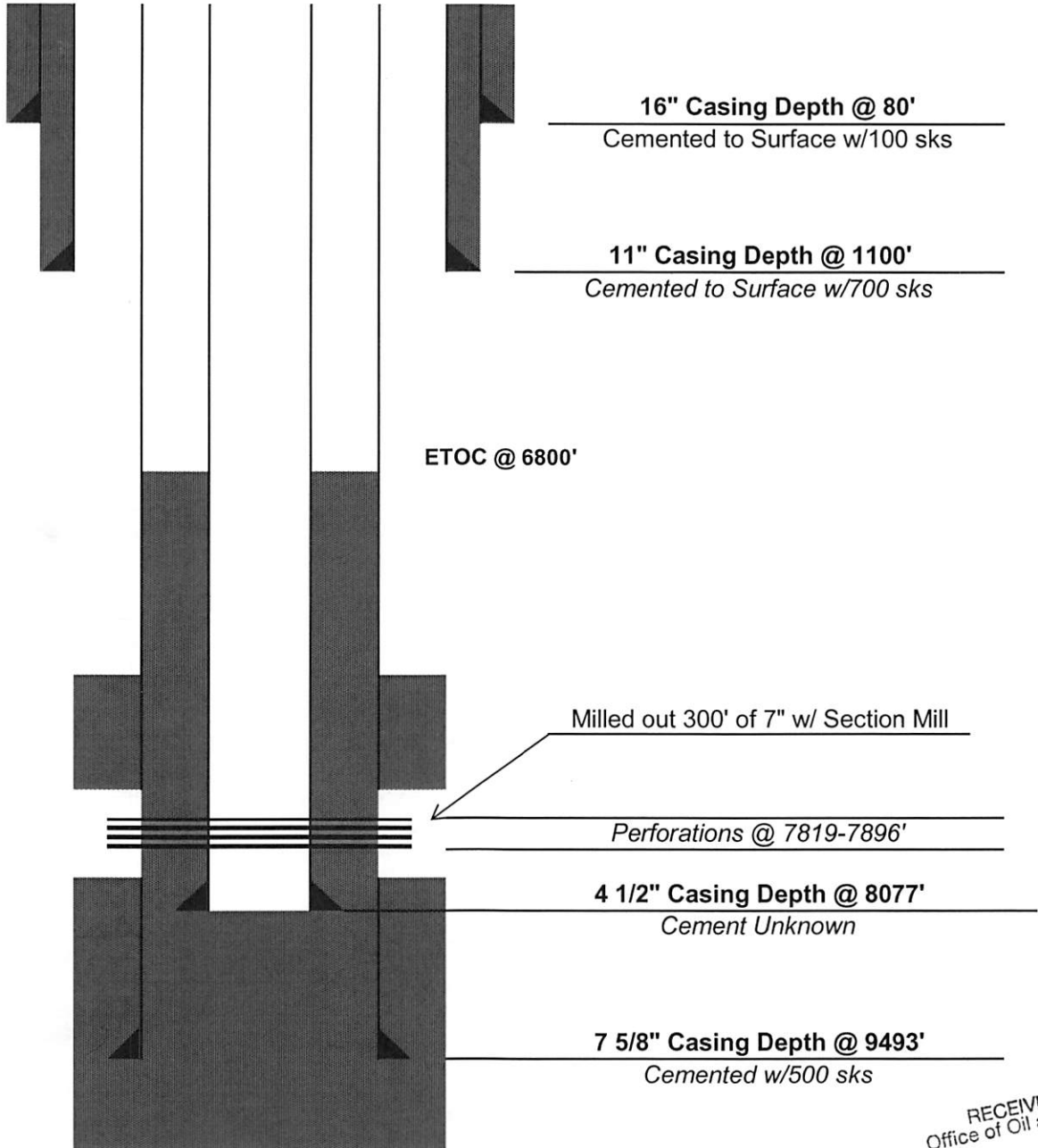
Work Order approved by Inspector: *Haynes Knott* Date: *10/10/2017*

★ FREEPOINT 4 1/2" , CUT AND TOOH WITH 4 1/2"

★ FREEPOINT 7 5/8" , CUT AND TOOH WITH 7 5/8" yam

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Greer Steel #7120
Morgan, Monongalia County WV
Original Completion : 08/22/1973
API # 47-061-00332
Elevation = 2072'



Original TD @ 11585', Plugged Back to 8077'

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RECEIVED
JAN 23 1974

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

DEPARTMENT OF MINES
OIL & GAS DIVISION

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE MADE IN TRIPPLICATE, ONE COPY MAILED TO THE DEPARTMENT, ONE COPY TO BE RETAINED BY THE WELL OPERATOR AND THE THIRD COPY (AND EXTRA COPIES IF REQUIRED) SHOULD BE MAILED TO EACH COAL OPERATOR AT THEIR RESPECTIVE ADDRESSES.

None	Consolidated Gas Supply Corporation
COAL OPERATOR OR OWNER	NAME OF WELL OPERATOR
	Clarkesburg, W. Va.
None	January 22, 1974
ADDRESS	COMPLETE ADDRESS
None	Morgan, District
COAL OPERATOR OR OWNER	WELL AND LOCATION
Delbert F. Cross, Art.	Monongalia, County
ADDRESS	Well No. 11616
LEASE OR PROPERTY OWNER	Greer Steel Corporation Farm
Masonstown, W. Va.	
ADDRESS	

STATE INSPECTOR SUPERVISING PLUGGING Bill Blosser

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Harrison
J. R. Johnston and H. M. Spengler

being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by Consolidated Gas Supply Corporation well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 12th day of September, 1973, and that the well was plugged and filled in the following manner:

BAND OR ZONE RECORD FORMATION	FILLING MATERIAL	PLUGS USED SIZE & KIND	CASING	
			FEET DROPPED	FEET LEFT IN
Cast Iron	Aquagel 11,585' to 11,223'	16"	80'	80'
	Plur 11,223'	11"	1100'	1100'
	Cement 11,223' to 10,723'	7"	9493'	9493'
	Aquagel 10723' to 9,000'	1 1/2"	8077'	8077'
	Cement 9,000' to 8,077'			
	(Partial Plugging)			
COAL SEAMS				
(NAME)			DESCRIPTION OF MONUMENT	
(NAME)			Partial Plugging	
(NAME)				
(NAME)				

and that the work of plugging and filling said well was completed on the 11th day of September, 1973

And further deponents saith not.
J.R. Johnston
H.M. Spengler

Sworn to and subscribed before me this 22 day of January, 1974
Halter S. White

My commission expires: March 13, 1980
Notary Public
Permit No. Non-332



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

4706100332P
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OIL & GAS DIVISION
DEPT. OF MINES

Quadrangle MORGANTOWN
Permit No. MDW-332

Notary XXX Oil _____
Cable _____ Gas SEE WATER
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind)

Company Consolidated Gas Supply Corporation
Address Clarksburg, W. Va.
Farm Greer Steel Corporation Acres 133.058
Location (waters) Cheat River
Well No. 11646 Elev. 2072'
District Morgan County Monongalia
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by _____
Address _____
Drilling Commenced 4-21-73
Drilling Completed 8-22-73
Initial open flow N. R. cu. ft. _____ bbls.
Final production 2,477 Mcu. ft. per day _____ bbls.
Well open 22 days hrs. before test 3650# RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size x20-16 "	80	80	To surface-100 bags
Cond. 12 1/2" L1 "	1100	1100	To surface-700 bags
9 5/8			
8 5/8			
7-5/8"	9493	9493	500 bags
5 1/2			
4 1/2	8077	8077	Milled out 300' of 7" with section mill
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Perforated 7830' to 7728' with 63 holes and treated with 500 hbl water, 22,500# sand, 1000 gal 28% acid

Perforated 7904' to 7995' with 48 holes and treated with 500 hbl water, 1000 gal 28% acid, 45,000# sand and 4200# glass beads.

Coal was encountered at None Feet _____ Inches _____
Fresh water None Feet _____ Salt Water None Feet _____
Producing Sand Chert Depth 7819' to 7896'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Sand & Shale			0	480		
Red Rock			480	1975		
Shale & Lime stringers			1975	7702		
Onondaga			7702	7719		
Chert			7719	7896	Gas	Chert. See perforations
Oriskany			7896	7960		
Lime			7960	9149		
Dolomite			9149	9197		
Salt			9197	10551		
Dolomite			10551	10597		
Shale			10597	10995		
Sand & Shale			10995	11186		
Tuscarora			11186	11488		
Total depth drilled				11585'		
Plugged back to				8077'	Present T.D.	

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Consolidated Gas Supply Corp.
141 West Main Street
Clarksburg, W. Va.

* Indicates Electric Log tops in the remarks column.

STATE OF WEST VIRGINIA
DEPARTMENT - OIL & GAS CONSERVATION COMM

W.VA. OIL & GAS WELLS
1976 MASTER LISTING

REPORT NO. CCA038P1 PAGE 0370
CURRENT DATE - 03/31/81
REPORT DATE - 08/31/81

API NUMBER - 47-061-0332-0
STATUS - 00
TYPE WELL - GAS
OPERATOR - CONSOLIDATED GAS ID - 189
FARM - GREER STEEL CO
COUNTY - MORGAN
FIELD - SOUTH BURNS CHA FIELD CODE - 313
DISTRICT - MORGAN
QUADRANGLE - GASHTOWN
LOCATION - 418143 FEET DECIMAL - 79.81462
LONGITUDE - 79 DEGREES 55 MINUTES - SEC
LATITUDE - 320539 FEET DECIMAL - 59.61035
N M M N M W M M N M M M M

WELL COMPLETION (CSG) DATA WMM
LENGTH DIAMETER
(FEET) (INCHES)
80 16
1.100 11 3/4
9.493 7 3/8
8.077 4 1/2

WELL GEOLOGICAL DATA WMM

PAY FORMATION - 443-HUNTERSVILLE CHERT
I. D. FEET - 11.585 008-
ELEVATION - 2022.00
COMPLETED - 080073 ISSUED -
DEEPEMED -
REWORKED -
FLURRED -
FRACTURED -
TYPE FRACTURE - UNKNOWN
INIT POTENTIAL - 2477 MCFD
ROCK PRESS - 93638 PSIG IN. 504 HRS
DEPTH IN FEET STRATIGRAPHIC UNIT
7.702 - 7.719 461-ONONDAGA
7.719 - 7.896 463-HUNTERSVILLE CHERT
7.896 - 7.960 475-ORISKANY
7.960 - 9.149 483-HELDERBERG
11.186 - 11.488 575-YUSCARDORA
11.488 - 11.585 615-JUNIATA
008-
000-
000-
000-
000-

1976 PRODUCTION

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
OIL (MM)												
GAS (MM)												
R.P. PSIG	9,214	12,240	14,681	12,529	20,124	13,514	12,287	11,923	9,370	6,419	7,142	6,943

ACCUMULATIVE PRODUCTION HISTORY

	1975	1974	1973	1972	1971	1970	1969	1968	1967	1966	1965
OIL (MM)											
GAS (MM)	200,234	34,114									
R.P. PSIG											

(M) = MM BLS
(MM) = MCF
OIL (M) - GAS (MM) - 438,100

47-061-0332

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MAR 29 1973-CEN

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES
Charleston, W. Va.

DATE March 27, 1973

Surface Owner Cascade Corporation

Company Consolidated Gas Supply Corporation

Address Cascade, W. Va.

Address Clarksburg, W. Va.

Mineral Owner Delbert E. Cress, Agt.

Farm Greer Steel Corporation Acres 133.058

Address Route #1, Masontown, W. Va.

Location (waters) Cheat River

Well No. 11616

Elevation 2072'

District Morgan

County Monongalia

Coal Operator None

Quadrangle MORGANTOWN

THIS PERMIT MUST BE POSTED AT THE WELL SITE.
All provisions being in accordance with Chapter 22,
of the W. Va. Code, the location is hereby approved
for drilling. This permit shall expire if
operations have not commenced by 2/2/73.

INSPECTOR TO BE NOTIFIED
Mr. Wm. Blain
Box 1857 PH: Summit
Calif., 3634105
W. Va. 20566

Deputy Director - Oil & Gas Division

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated 9-9-60 19 by Greer Steel Co. made to Hope Natural Gas Company and recorded on the 12th day of February 1961 in Monongalia County, Book 591 Page 179

NEW WELL DRILL DEEPER REDRILL FRACTURE OR STIMULATE
OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days.

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address day before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

Very truly yours,
(Sign Name) R. R. Payne Manager of Prod.
Well Operator

Consolidated Gas Supply Corporation

Address Street
415 West Main Street

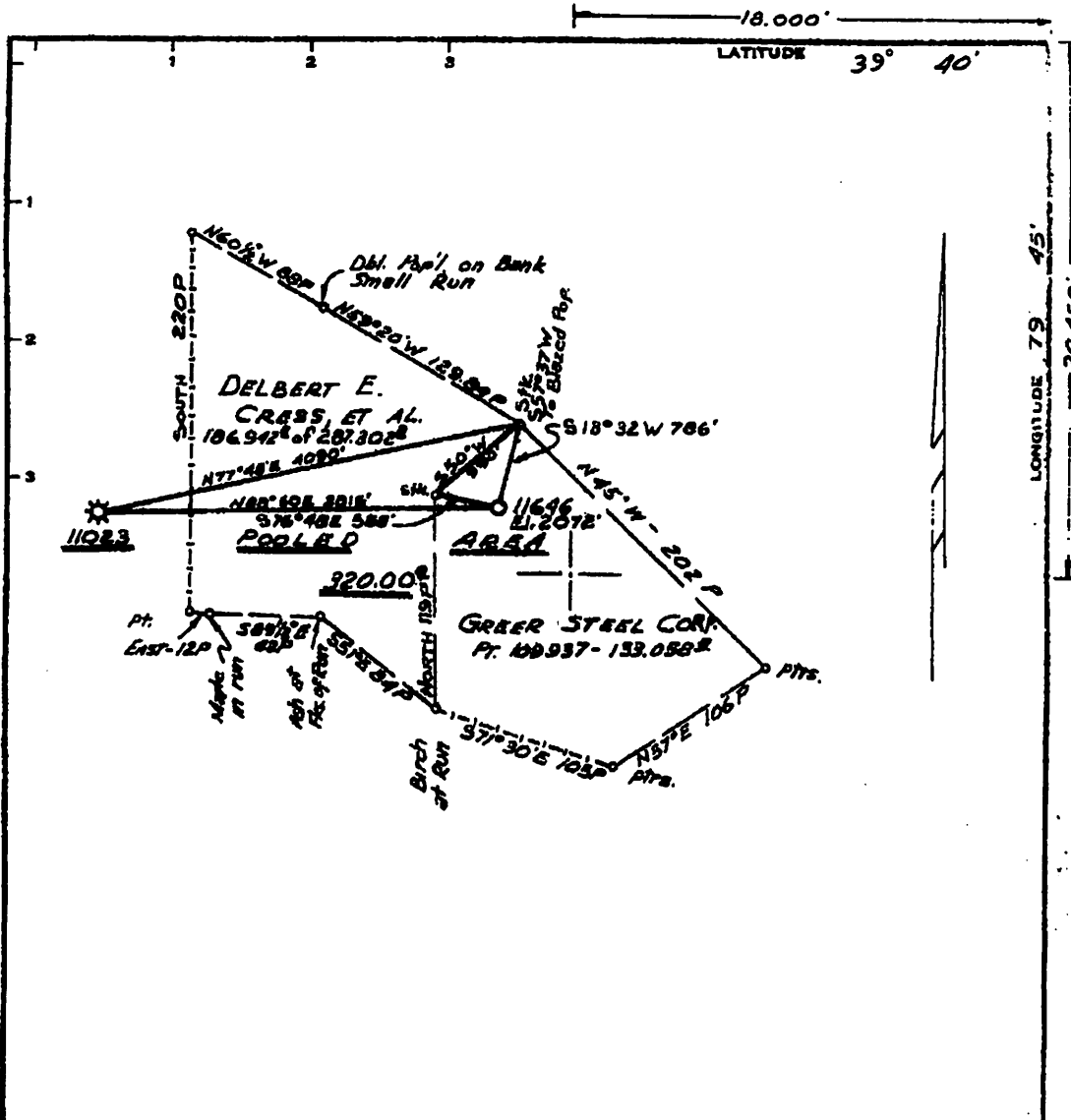
City or Town Clarksburg, W. Va.

State

*SECTION 3 If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

BLANKET BOND

Mon-332 PERMIT NUMBER



Minimum Error of Closure 1' IN 200'
 Source of Elevation B.M. - CHIBBLER SQUARE IN ROCK - MORGANTOWN
7 1/2' TOPG MAP - ELEV. 2146'
 "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."

Partial Plugging
 New location *Sierra*
 Drill Deeper
 Abandonment

UNIT
 POOLED AREA 320[±]

MAP SHEET 933 B-4 F.B. 1636 Pgs. 30-34

Company CONSOLIDATED GAS SUPPLY CORP
 Address CLARKSBURG, W.VA.
 Farm GREER STEEL CO.
 Tract. Acres 139.058 Lease No. 109937
 Well (Farm) No. Serial No. 11696
 Elevation (Spirit Level) 2072'
 Quadrangle MORGANTOWN E.C.
 County MONONGALIA District MARRAS
 Engineer Jackson M. J. Wynn
 Engineer's Registration No. 2997
 File No. Drawing No.
 Date 3-18-73 Scale 1"=13.30'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
WELL LOCATION MAP
 FILE NO. MM-332-P
 + 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 square on border line of original tracing.
47-061

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 WV Department of
 Environmental Protection



"Pipeline"

Select County: (061) Monongalia Select datatypes: [] (Check All) Enter Permit #: 00332 [] Location [] Production [] Plugging [] Owner/Completion [] Stratigraphy [] Sample [] Pay/ShowWater [] Logs [] Btm Hole Loc

- Table Descriptions
County Code Translations
Permit Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
'Pipeline-Plus' New

WV Geological & Economic Survey:

Well: County = 61 Permit = 00332

Report Time: Friday, December 01, 2017 9:33:01 AM

Location Information: View Map

Table with 8 columns: API, COUNTY, PERMIT, TAX_DISTRICT, QUAD_75, QUAD_15, LAT_DD, LON_DD, UTME, UTMN. Row 1: 4706100332, Monongalia, 332, Morgan, Masontown, Morgantown, 39.610068, -79.813715, 601836, 4385152.3

There is no Bottom Hole Location data for this well

Owner Information:

Table with 13 columns: API, CMP_DT, SUFFIX, STATUS, SURFACE_OWNER, WELL_NUM, CO_NUM, LEASE, LEASE_NUM, MINERAL_OWN, OPERATOR_AT_COMPLETION, PROP_VD, PROP_TRGT_FM, TFM_EST_PR. Row 1: 4706100332, 8/22/1973, Original Loc, Completed, Greer Steel Corp, 11646, 109937, Consolidated Gas Supply Corp.

Completion Information:

Table with 17 columns: API, CMP_DT, SPUD_DT, ELEV DATUM, FIELD, DEEPEST_FM, DEEPEST_FMT, INITIAL_CLASS, FINAL_CLASS, TYPE, RIG, CMP_MTHD, TVD, TMD, NEW_FTG, G_BEF, G_AFT, O_BEF, O_AFT. Row 1: 4706100332, 8/22/1973, 4/21/1973, 2072, Ground Level, S Burns Chapel, Juniata Fm, Tuscarora Ss, Deeper-pool Test, Development Well, Gas, Rotary, Acid+Frac, 11585, 11585, 0, 2477, 0.

Pay/ShowWater Information:

Table with 14 columns: API, CMP_DT, ACTIVITY, PRODUCT, SECTION, DEPTH_TOP, FM_TOP, DEPTH_BOT, FM_BOT, G_BEF, G_AFT, O_BEF, O_AFT, WATER_QNTY. Rows include data for 4706100332 with various depths and activities.

Production Gas Information: (Volumes in Mcf)

Table with 13 columns: API, PRODUCING_OPERATOR, PRD_YEAR, ANN_GAS, JAN, FEB, MAR, APR, MAY, JUN, JUL, AUG, SEP, OCT, NOV, DCM. Rows include production data for various operators from 1979 to 2016.

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil

Table with 13 columns: API, PRODUCING_OPERATOR, PRD_YEAR, ANN_OIL, JAN, FEB, MAR, APR, MAY, JUN, JUL, AUG, SEP, OCT, NOV, DCM. Rows show production oil volumes for various operators from 1979 to 2016.

12/08/2017

12/1/2017

4706100332P

Production NGL Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4706100332	Consol Gas Company	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4706100332	Consol Gas Company	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4706100332	Consol Gas Company	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4706100332	Consol Gas Company	2016	0												

Production Water Information: (Volumes in Gallons)

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4706100332	Consol Gas Company	2016	0												

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4706100332	Original Loc	Driller's Tully	Electric Log	7216	Reasonable	121	Reasonable	2087	Kelly Bushing
4706100332	Original Loc	Onondaga Ls	Well Record	7702	Reasonable	17	Reasonable	2072	Ground Level
4706100332	Original Loc	Onondaga Ls	Electric Log	7705	Reasonable	15	Reasonable	2087	Kelly Bushing
4706100332	Original Loc	Huntersville Chert	Well Record	7719	Reasonable	177	Reasonable	2072	Ground Level
4706100332	Original Loc	Huntersville Chert	Electric Log	7720	Reasonable	176	Reasonable	2087	Kelly Bushing
4706100332	Original Loc	Oriskany	Well Record	7896	Reasonable	64	Reasonable	2072	Ground Level
4706100332	Original Loc	Oriskany	Electric Log	7896	Reasonable	64	Reasonable	2087	Kelly Bushing
4706100332	Original Loc	Helderberg	Well Record	7960	Reasonable	1189	Reasonable	2072	Ground Level
4706100332	Original Loc	Helderberg	Electric Log	7960	Reasonable		Qstnble Pick	2087	Kelly Bushing
4706100332	Original Loc	Salina	Well Record	9197	Reasonable	1354	Reasonable	2072	Ground Level
4706100332	Original Loc	Tuscarora Ss	Well Record	11186	Reasonable	302	Reasonable	2072	Ground Level
4706100332	Original Loc	Juniata Fm	Well Record	11488	Reasonable		Qstnble Pick	2072	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5
4706100332	100	11567		G.N.I.D.S.C.*	Y	N	100	11567	1060	11567	11000	11567	1124	11566			6500	11565	1050	11567	Y	Y

Comment: *logs: caliper, spontaneous potential, laterolog, CCL,3D vel.,cont. dir.

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click [here](#)

geologic log types:

- d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
- o other¹
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:

- b cement bond
- c caliper
- o other¹
- p perforation depth control or perforate

¹other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

FILENAME
4706100332co.tif
4706100332dqc1.tif
4706100332dqc2.tif
4706100332gco.tif
4706100332i.tif
4706100332l.tif
4706100332m.tif
4706100332n.tif
4706100332o.tif
4706100332s.tif
4706100332t.tif
4706100332z.tif

Plugging Information:

API	PLG_DT	DEPTH_PBT
4706100332	9/14/1973	8977

There is no Sample data for this well

WW-4A
Revised 6-07

1) Date: _____
2) Operator's Well Number
7120

3) API Well No.: 47 - 061 - 00332

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>PRESTON COUNTY COAL AND COKE CORPORATION</u>	Name <u>N/A</u>
Address <u>PO BOX 1900</u>	Address _____
<u>MORGANTOWN, WV 26507</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Preston County Coal and Coke Corporation</u>
_____	Address <u>8477 Veterans Memorial Hwy</u>
_____	<u>Masontown, WV 26542</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*
 Permitting Manager
 Address 1000 Consol Energy Drive
Canonsburg, PA 15370
 Telephone 724-485-3244

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

Commonwealth of Pennsylvania
 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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 OCT 12 2017
 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 depprivacyoffier@wv.gov.

WW-9
(5/16)

4706100332 P

API Number 47 - 061 - 00332
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) BULL RUN-CHEAT RIVER 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 Sarah Weigand
Company Official (Typed Name) Sarah Weigand

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OCT 12 2017
WV Department of Environmental Protection

Company Official Title Permitting Manager

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
12/08/2017

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: _____

Mary J Knuth

Comments: _____

- Reclaim site ASAP

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

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WV Department of
Environmental Protection

Title: Inspection

Date: 10/10/2017

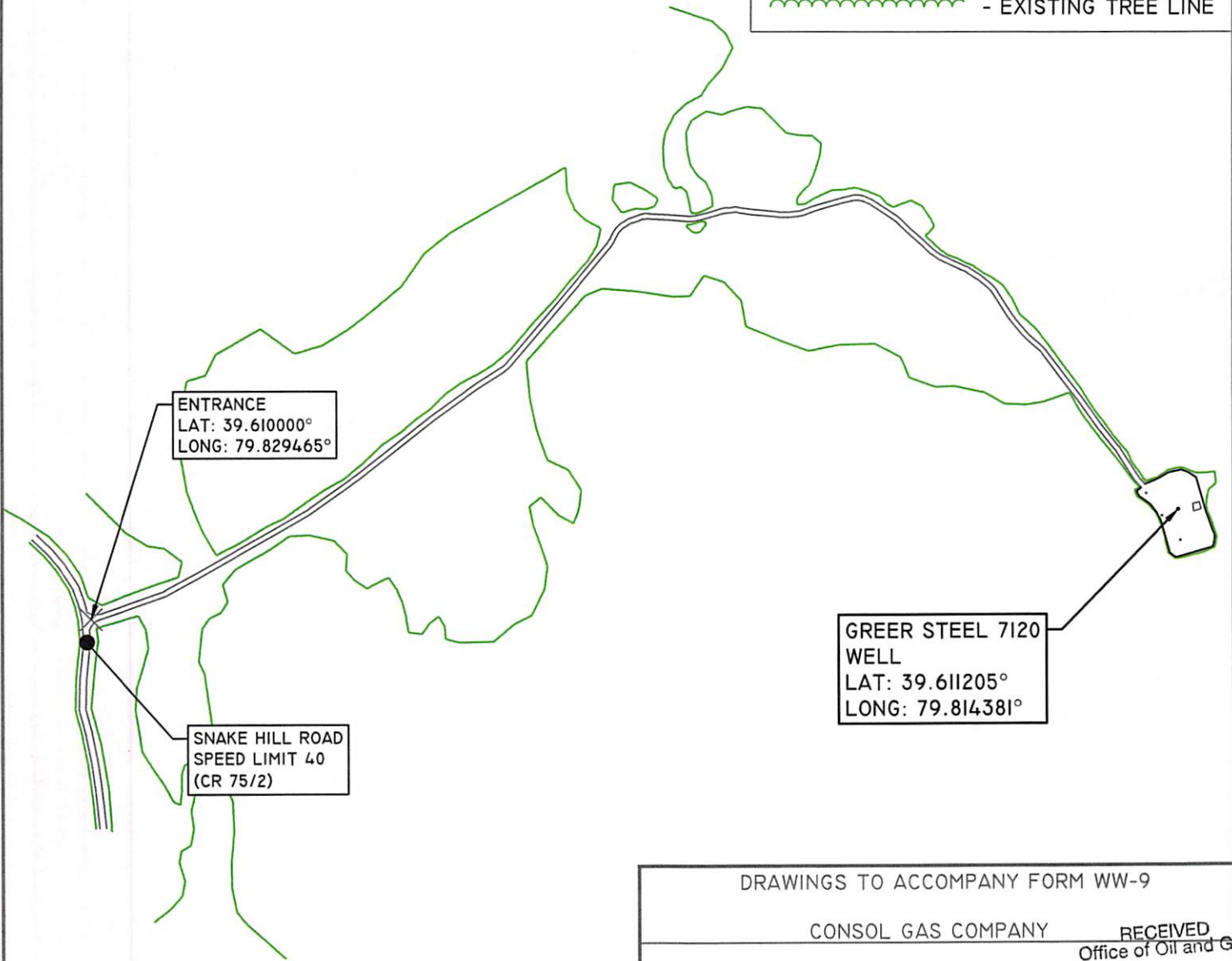
Field Reviewed? () Yes

() 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



ENTRANCE
LAT: 39.610000°
LONG: 79.829465°

SNAKE HILL ROAD
SPEED LIMIT 40
(CR 75/2)

GREER STEEL 7120
WELL
LAT: 39.611205°
LONG: 79.814381°

DRAWINGS TO ACCOMPANY FORM WW-9

CONSOL GAS COMPANY

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Office of Oil and Gas

200 HALLAM ROAD

OCT 12 2017

WASHINGTON, PA 15301

WV Department of
Environmental Protection

WATERSHED: BULL RUN-CHEAT RIVER

DISTRICT: MORGAN

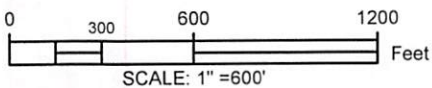
COUNTY: MONONGALIA

QUADRANGLE: MASONTOWN

WELL NO: GREER STEEL 7120

DATE: 07/20/2017

PAGE 1 OF 4



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: 40 MPH
REQUIRED DISTANCE - 354.0'
MEASURE DISTANCE - 395.0'

395.00'

Snake Hill Road
SPEED LIMIT 40
(CR 75/2)

ENTRANCE
LAT: 39.610000°
LONG: 79.829465°

470.00'

SIGHT DISTANCE LIMIT
SPEED LIMIT: 40 MPH
REQUIRED DISTANCE - 354.0'
MEASURE DISTANCE - 395.0'

RECEIVED
DRAWINGS TO ACCOMPANY FORM WVD-10 Office of Oil and Gas

CONSOL GAS COMPANY OCT 12 2017

200 HALLAM ROAD WV Department of Environmental Protection

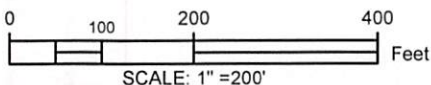
WASHINGTON, PA 15301

WATERSHED: BULL RUN-CHEAT RIVER

DISTRICT: MORGAN COUNTY: MONONGALIA

QUADRANGLE: MASONTOWN WELL NO: 7120
GREER STEEL

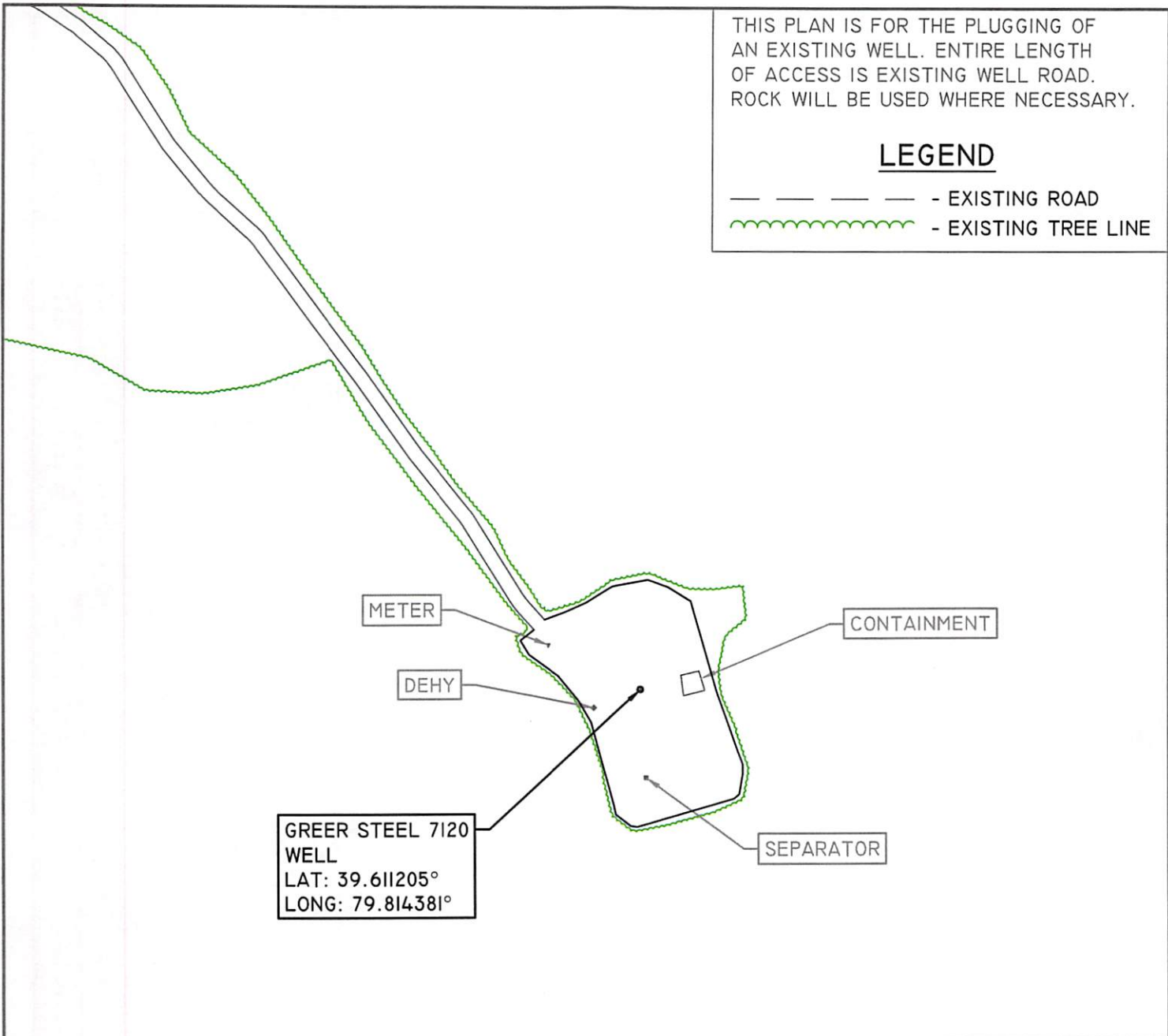
DATE: 07/20/2017 PAGE 2 OF 4



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



GREER STEEL 7120
WELL
LAT: 39.611205°
LONG: 79.814381°

DRAWINGS TO ACCOMPANY FORM WW-9

CONSOL GAS COMPANY

200 HALLAM ROAD

WASHINGTON, PA 15301

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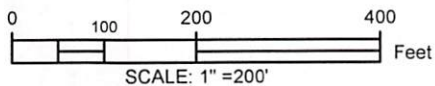
WV Department of
Environmental Protection

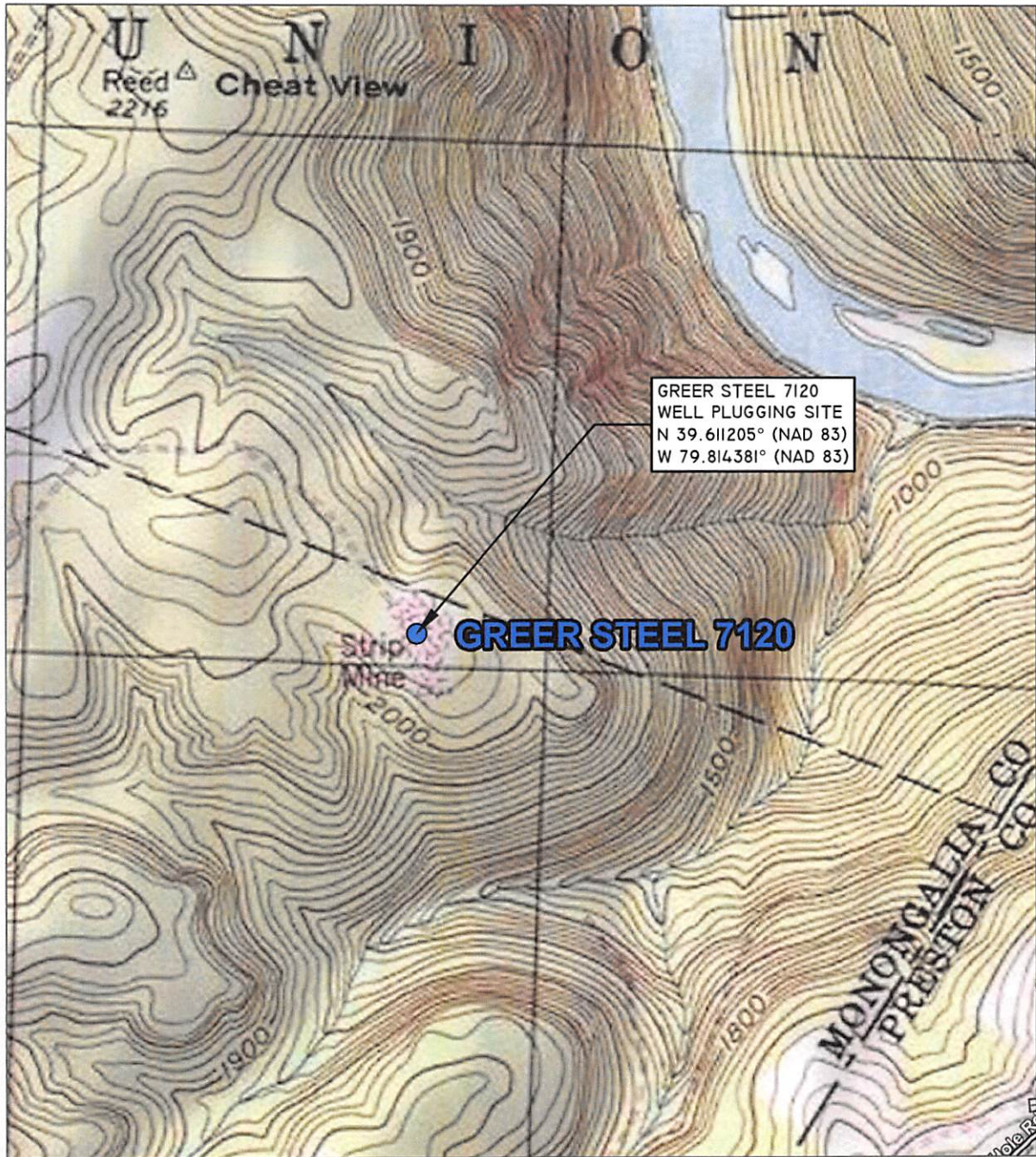
WATERSHED: BULL RUN-CHEAT RIVER

DISTRICT: MORGAN COUNTY: MONONGALIA

QUADRANGLE: MASONTOWN WELL NO: 7120

DATE: 07/20/2017 PAGE 3 OF 4





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LOCATION MAP
MASONTOWN, WV 7.5M USGS QUADRANGLE
SCALE: 1"=1000'



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 7120 GAS WELL
MORGAN DISTRICT
MONONGALIA COUNTY, WV

CONSOL GAS COMPANY
200 HALLAM ROAD
WASHINGTON, PA 15301

DRAWN BY: LLF
CHECKED BY: WPF
DATE: 07/20/2017
SCALE: 1"=1000'
WATERSHED: BULL RUN-CHEAT RIVER
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: 47-061-00332 WELL NO.: 7120

FARM NAME: Greer Steel

RESPONSIBLE PARTY NAME: Sarah Weigand / CONSOL GAS COMPANY

COUNTY: Monongalia DISTRICT: Morgan

QUADRANGLE: Mastontown

SURFACE OWNER: PRESTON COUNTY COAL AND COKE CORPORATION

ROYALTY OWNER: POOLED ROYALTY: DELBERT E. CRESS ORIGINAL AGENT

UTM GPS NORTHING: 4,385,277.668 METERS

UTM GPS EASTING: 601,777.090 METERS GPS ELEVATION: 631.055 METERS *(2070.00')*

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:

- Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
- Accuracy to Datum – 3.05 meters
- Data Collection Method:

Survey grade GPS : Post Processed Differential

Real-Time Differential

Mapping Grade GPS : Post Processed Differential

Real-Time Differential

- 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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