

#### 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, August 16, 2017 WELL WORK PERMIT Vertical / Plugging

CONSOL GAS COMPANY 1000 CONSOL ENERGY DRIVE

CANNONSBURG, PA 163176506

Re: Permit approval for 11307 47-061-00324-00-00

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: 11307 Farm Name: SHAFER, JAMES N.

U.S. WELL NUMBER: 47-061-00324-00-00

Vertical / Plugging

Date Issued: 8/16/2017

Promoting a healthy environment.

### PERMIT CONDITIONS

West Virginia Code §22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

#### 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.

WW-4B Rev. 2/01

1)Date	, 20_17
2)Operator's	
Well No.7109	)
3) API Well No	O. 47-061 - 00324

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

	APPLICATION FOR A PERM	MIT TO PLUG AND ABANDON
4)		d injection/ Waste disposal/ derground storage) Deep/ Shallow X
5)	Location: Elevation 1947.28	Watershed Bull Run - Cheat River
5)	District Morgan	County Monongalia Quadrangle Masontown
6)	Well Operator Address Address Consol Gas Company 1000 Consol Energy Drive	7) Designated Agent Christopher Turner Address P.O. Box 1248
	Address 1000 Consol Energy Drive Canonsburg, PA 15317	Jane Lew, WV 26378
8)	Oil and Gas Inspector to be notified  Name Gayne J Knitowski	Name Coastal Drilling East LLC
	Address P.O. Box 108  Gormania WV 26720	Address 70 Gums Springs Road  Morgantown, WV 26508
10)	Work Order: The work order for the manned See attached.	RECEIVED Office of Oil and Gas  JUL 18 2017  WV Department of Environmental Protection
	fication must be given to the district of can commence.	il and gas inspector 24 hours before permitted
Work	order approved by inspector Harme	Antown Date 7/12/2017

#### Garner #7109

Morgan, Monongalia County WV Original Completion: 12/19/1970 API# 47-061-00324 Elevation = 1955'

#### Procedure:

- 1. Load Hole/Kill Well, Pump 6% gel if necessary
- 2. RIH with Bond Tool to verify TD, log out to verify 4 ½" TOC (4 1/2" Casing Float @ 8015')
- 3. TIH with 2 3/8" Workstring and load the well with 6% Gel
- 4. Pump Class A Cement Plug from TD to 4 ½" TOC (4 ½" TOC est. @ 6600')
- Verify TOC
- 6. RIH Jet Cut/Collar Bust 4 1/2" Casing above Bottom Hole Plug
- 7. Attempt to pull 4 ½" Casing
  - a. If unable to pull run bond long/free point and cut where free
- 8. TIH with 2 3/8" Workstring to 2100' and set Class A Cement Plug from 2100' to surface
  - a. This plug will cover Elevation @ 1955'
- 9. Install monument with Well Name, API#, & Company Name. Monument must extend 30" min. above ground level and be 6" in diameter.

10. Redain 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 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:

\_Date: 7/12/2017

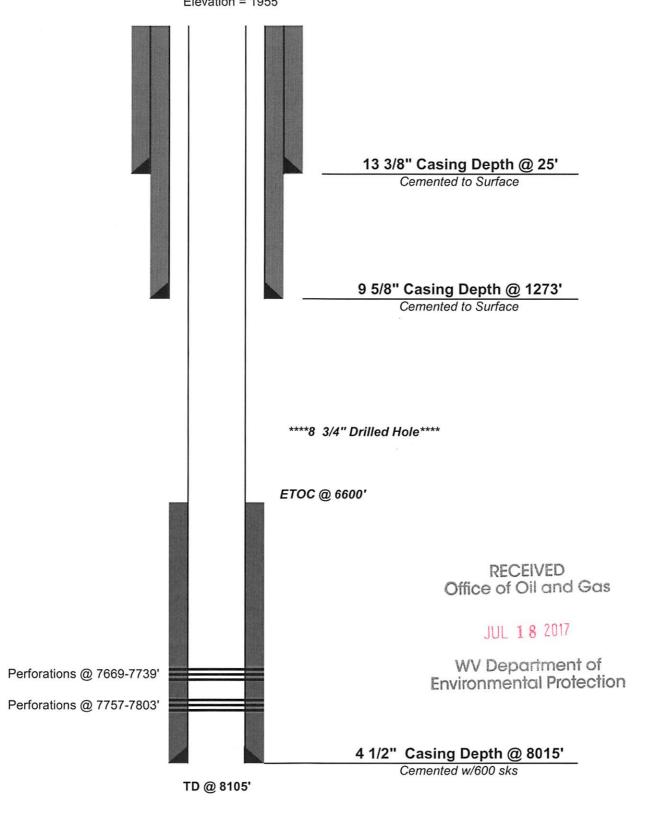
RECEIVED
Office of Oil and Gas

JUL 18 2017

WV Department of Environmental Protection

#### **Garner #7109**

Morgan, Monongalia County WV Original Completion : 12/19/1970 API # 47-061-00324 Elevation = 1955'



Form 0G-16

Producing Sand ....



OIL & GAS DIVISION 

XCXCX П

7669 - 7803

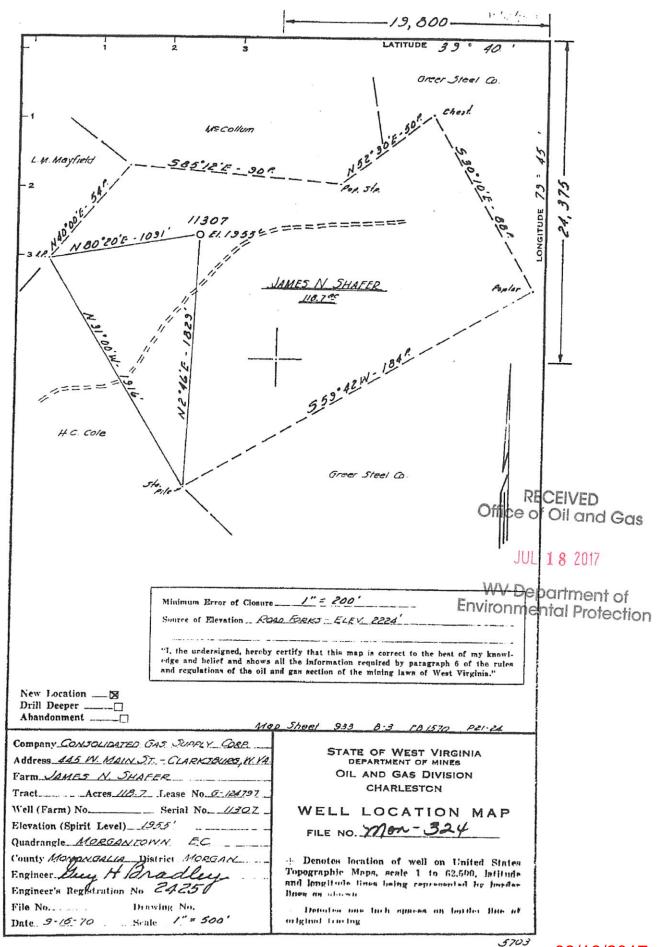
DEPARTMENT OF MINES OIL AND GAS WELLS DIVISION

Cable Tools Storage 

Quadrangle MORGANTOWN WELL RECORD Permit No. MON-324 Gas Oll or Gas Well. Company Consolidated Gas Supply Corporation Used in Drilling Clarksburg, West Virginia 26301 Packers James N. Shafer Acres 117 Farm..... Location (waters) ..... Kind of Packer .... 251 Well No. 11307 Elev. 1955! District Morgan County Monongalia **30.9.5/8**" 1273 The surface of tract is owned in fee by..... Address..... Depth set. Mineral rights are owned by... 8015 Address Drilling commenced 11-11-70 Perf. top. Drilling completed 12-19-70 7735 Perf. bottom... Date Shot Not shot From To. 7757 Perf. ton Attach copy of cementing record.13" & 9" to surface CASING CEMENTED SIZE No. Ft. ...../10ths Merc. in.... Volume 2,903,000 (Natural) Amount of cement used (bags) 4 1/2" with 600 bags Rock Pressure Not Taken 1bs. Name of Service Co. Halliburton ....hrs. Oil.....None bbls., 1st 24 hrs. COAL WAS ENCOUNTERED AT None FRET\_ WELL ACIDIZED (DETAILS)\_\_No\_\_\_ FEET INCHES. WELL FRACTURED (DETAILS) 12-29-70 with 1400 bbl. fluid, 50,000# sand, 2000 gal. 28% acid 1500 # walnut Hulls and 4393 HHP RESULT AFTER TREATMENT (Initial open Flow or bbls.) 4,795,000 cubic feet rock pressure after treatment 3450# HOURS Fresh Water Feet Salt Water 3525

	402 437	413 673	water	501	
	737 1013 1626 1659 1 <b>71</b> 4	869 1057 1645 1684 1752		551	
	2381 2596 3539	2408 2656 3649	water	3525'	Show
	7207 7644 7666 7839 <b>7</b> 914	7297 7666 7839 7914	gas	7669-78031	RECEIVED
	***	8105		C	of Oil and G
					JUL 18 2017
				Env	WV Department o vironmental Protec
		2381 2596 3539 7207 7644 7666	2381 2408 2596 2656 3539 3649 7207 7297 7644 7666 7666 7839 7839 7914	2381 2408 2596 2656 3539 3649 water 7207 7297 7644 7666 7666 7839 gas 7839 7914	2381 2408 2596 2656 3539 3649 Water 3554' 7207 7297 7644 7666 7666 7839 7914 7914 8105

(over)



00324

WW-4A Revised 6-07

1)	Date:	
2)	Operator's Well Number	
7109		

## STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE 0F APPLICATION TO PLUG AND ABANDON A WELL

3) API Well No.: 47 -

,	$\mathbf{r}(\mathbf{s})$ to be served:		(a) ( a) ( maratar	
(a) Name	WILLIAM A JR, MELANIE E		) (a) Coal Operator IZO Name	N/A
Address	8421 RIVERSIDE RD	a bow o become	Address	14/1
Address	ALEXANDRIA VA 22308-	1547	Rudress	***************************************
(b) Name	ALLANDINA VA 22000-	1047	(b) Coal Ov	vner(s) with Declaration
Address			Name	WILLIAM A JR, MELANIE E & DOW S DELORENZO
Address			Address	8421 RIVERSIDE RD
			Address	ALEXANDRIA VA 22308-1547
(a) Name			Name	ALEXANDRIA VA 22300-1047
(c) Name			Name Address	
Address			Address	
) Inspector	Gayne J Knitowski		(c) Coal Les	ssee with Declaration
Address	P.O. Box 108		Name	KECEIVED
Address	Gormania WV 26720		Address	Office of Oil and Gas
Telephone	304-546-8171		Address	
relephone .	304-340-0171		<del></del>	JUL 18 2017
				eived this Form and the following documents:
	are not required to take ar	y action at all.		cation which are summarized in the instructions on the reverses side
Take notice the accompanying Protection, with the Application	nat under Chapter 22-6 of g documents for a permit t th respect to the well at th	the West Virginia Co o plug and abandon the location described in mailed by registere	ode, the undersigned well a well with the Chief of th on the attached Applicati ed or certified mail or de	operator proposes to file or has filed this Notice and Application and the Office of Oil and Gas, West Virginia Department of Environmentation and depicted on the attached Form WW-6. Copies of this Notice livered by hand to the person(s) named above (or by publication in
Take notice the accompanying Protection, with Application	nat under Chapter 22-6 of g documents for a permit the threspect to the well at the on, and the plat have been	the West Virginia Co o plug and abandon a le location described n mailed by registere day of mailing or deli	ode, the undersigned well a well with the Chief of th on the attached Applicati ed or certified mail or de ivery to the Chief.	operator proposes to file or has filed this Notice and Application and Office of Oil and Gas, West Virginia Department of Environmentation and depicted on the attached Form WW-6. Copies of this Notice livered by hand to the person(s) named above (or by publication in
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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.

08/18/2017

COMMONWEALTH OF PENNISYLVANIA
NOTARIAL SEAL
Lod L. Weiker, Notary Public
Richfull Type, Greene County
My Gouchission Expires (Teb. 23, 2019)
THESE PLYMOREM ASSOCIATION OF NOTARIES



WW-9 (5/16)

API Number	47 -	061	_ 00324	
Operator's We	ell 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 systembe 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 Cas of any load of drill cuttings or associated West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permitte	
where it was properly disposed.	
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLI on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection provisions of the permit are enforceable by law. Violations of any term or condition of the general permit are or regulation can lead to enforcement action.  I certify under penalty of law that I have personally examined and am familiar with the information form and all attachments thereto and that, based on my inquiry of those individuals immediately the information, I believe that the information is true, accurate, and officiency it am award that there are submitting false information, including the possibility of fine or imprisonment.	ion. I understand that the nd/or other applicable law mation submitted on this responsible for o btaining
Company Official Signature Cuka & Whattow JUL 18 2017	
Company Official (Typed Name) Erika Whetstone WV Department of	
Company Official Title Permitting Supervisor Environmental Protection	
Subscribed and sworn before me this 7th day of 1, 20 17  February 23, 2019 Ou 1 Would Notary Public  My commission expires February 23, 2019	COMMONWEALTH OF PENNSYLVANIA  NOTARIAL SEAL  Lori L. Walker, Notary Public Richhill Twp., Greene County  My Comnon Park 10 20, 2019  MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES



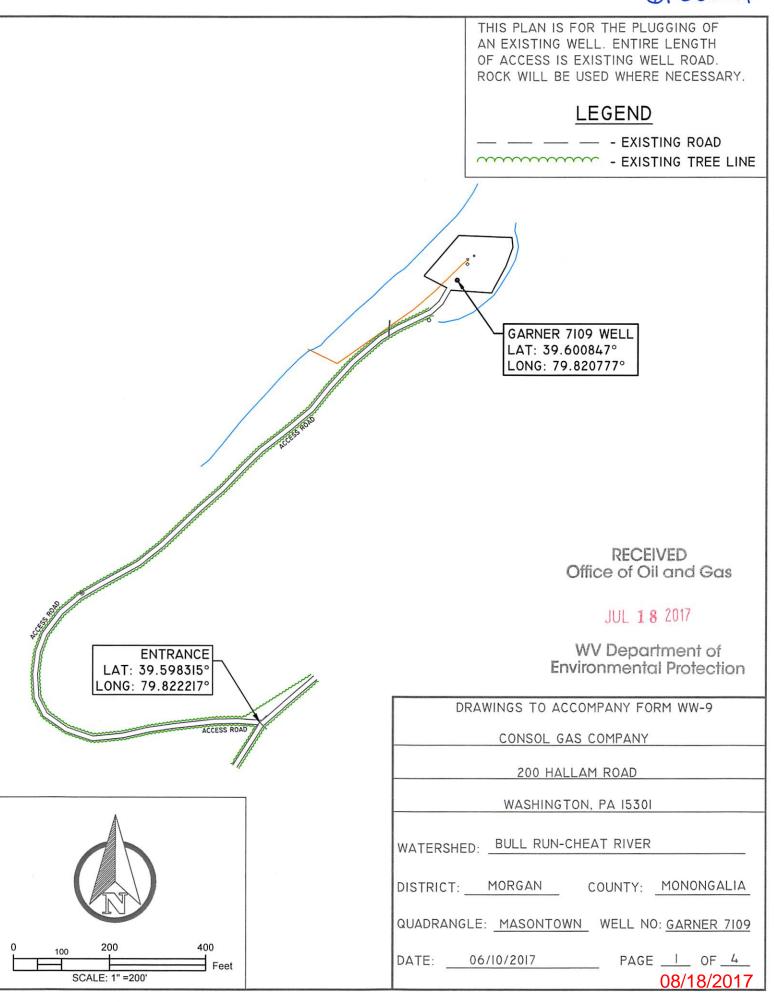
COMMONING ACTH OF PENNOLYLVAND NOTARIAL SEAL LOIT, Walker, Notary Public Richall Twp., Greene County My Commission Express Fair, 22, 2019 Member, Leans Ryma, Joseph Of Hotaliel

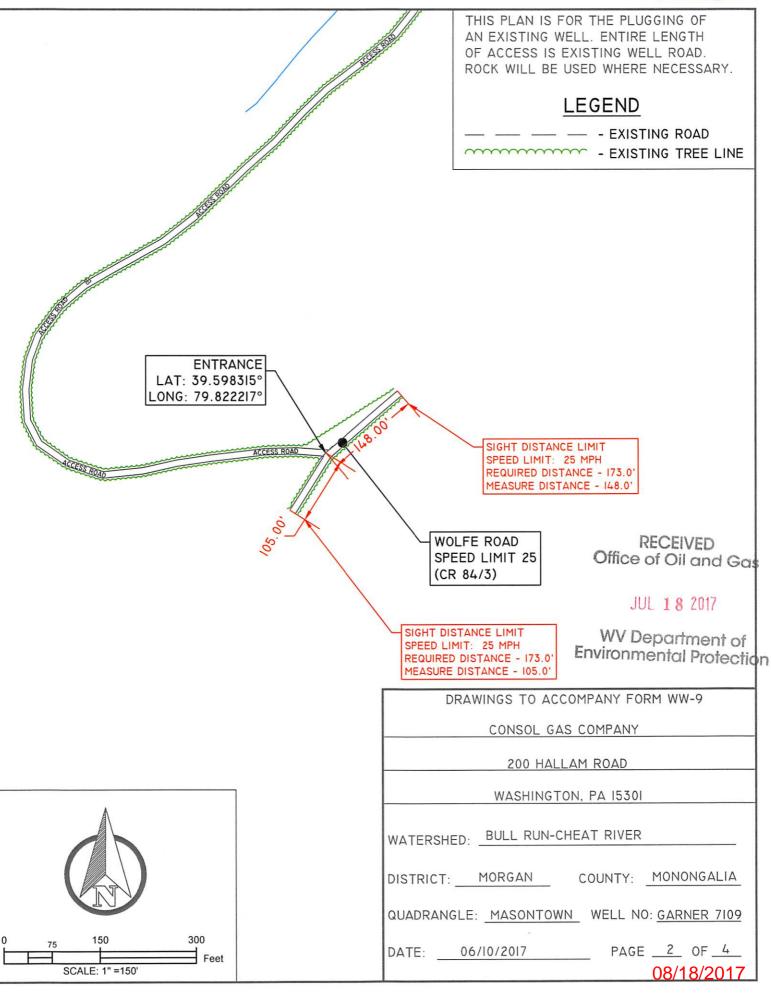
08/18/2017

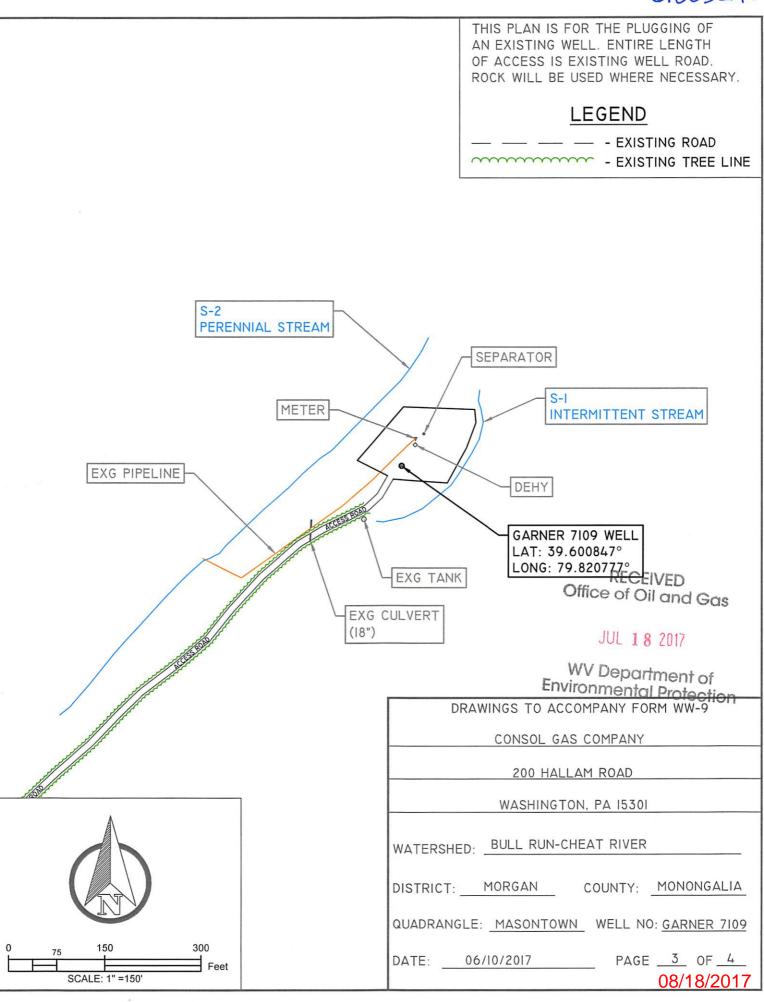
Field Reviewed?

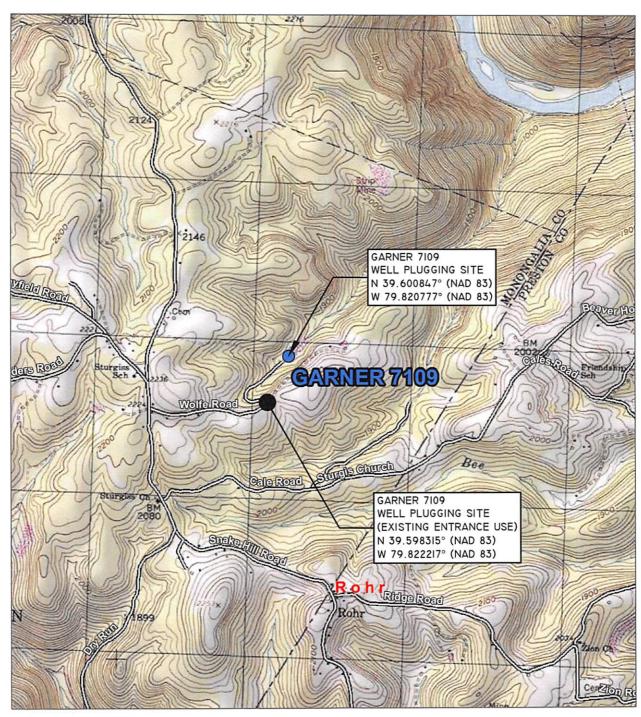
roposed Revegetation Tre	eatment: Acres Disturbed les	ss than 1 acre Preveg	g etation pH
		t to pH	
Fertilizer type 10	0-20-20 or equivalent		
Fertilizer amount	500	lbs/acre	
<sub>Mulch</sub> hay or s		_Tons/acre	
		Seed Mixtures	
ŗ	Temporary		Permanent
Seed Type Tall Fescue	lbs/acre 40	Seed Ty Tall Fescue	pe lbs/acre 40
Landino Clover	5	Landino Clove	er 5
provided). If water from the			lans including this info have been nsions (L, W, D) of the pit, and dime
Maps(s) of road, location, provided). If water from the L, W), and area in acres, or	he pit will be land applied, pro		
Maps(s) of road, location, provided). If water from the L, W), and area in acres, or Photocopied section of inv	ne pit will be land applied, pro of the land application area.  volved 7.5' topographic sheet.		nsions (L, W, D) of the pit, and dime
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(\_\_\_\_\_) Yes (\_\_\_\_\_\_) No









RECEIVED
Office of Oil and Gas

LOCATION MAP
MASONTOWN, WV 7.5M USGS QUADRANGLE
SCALE: I"=2000'





Engineers and Land Surveyors Woman Owned Small Business

11023 Mason Dixon Hwy. Burton, WV 26562-9656 (304) 662-6486

#### LOCATION MAP

GAS WELL PLUGGING GARNER 7109 GAS WELL

MORGAN DISTRICT MONONGALIA COUNTY, WV

> CONSOL GAS COMPANY 200 HALLAM ROAD WASHINGTON, PA 15301

DRAWN BY: LLF
CHECKED BY: WPF

DATE: 06/10/2017

SCALE: 1"=2000'

WATERSHED:

BULL RUN-CHEAT RIVER

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# West Virginia Department of Environmental Protection Office of Oil and Gas WELL LOCATION FORM: GPS

WELL LOC	ATION FURNI: GPS	•	
<sub>API:</sub> 47-061-00324	WELL NO.:	7109	_
FARM NAME: Garner			_
RESPONSIBLE PARTY NAME: E	Frika Whetstone		
COUNTY: Monongalia		organ	
QUADRANGLE: Masontown	1		
SURFACE OWNER: WILLIAM A	JR, MELANIE E & DOW	S DELORENZO	_
ROYALTY OWNER:			
UTM GPS NORTHING: 4,384,	120.838		
UTM GPS NORTHING: 4,384,7 UTM GPS EASTING: 601,243	.110 GPS ELEVA	<sub>гіол:</sub> 593.531	_
The Responsible Party named above h preparing a new well location plat for above well. The Office of Oil and Gas the following requirements:  1. Datum: NAD 1983, Zone: height above mean sea level. Accuracy to Datum – 3.05  3. Data Collection Method: Survey grade GPS × : Post Processing	a plugging permit or assigned will not accept GPS coordina  17 North, Coordinate Units: mel (MSL) – meters.  meters	API number on the tes that do not meet neters, Altitude:  Office of Oil a	nd Gas
	ne Differential	WV Departm Environmental P	ent of
11 &	Processed Differential Time Differential		IOIECIION
4. Letter size copy of the top I the undersigned, hereby certify this d belief and shows all the information re prescribed by the Office of Oil and Ga	pography map showing the value is correct to the best of my equired by law and the regulations.	y knowledge and	
Signature Signature	Permitting Supervisor  Title	7 6 17 Date	- 08/18/2017