

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, November 15, 2017 WELL WORK PERMIT Vertical / Plugging

CONSOL GAS COMPANY 1000 CONSOL ENERGY DRIVE

CANNONSBURG, PA 163176506

Re: Permit approval for 12432 47-077-00186-00-00

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.

Operator's Well Number: 12432

Farm Name: HOLMES, DONALD U.S. WELL NUMBER: 47-077-00186-00-00

Vertical / Plugging

Date Issued: 11/15/2017

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. <u>Failure to adhere to the specified permit conditions may result in enforcement action.</u>

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. 7142	
3) API Well No.	47-077 - 00186

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

	APPLICATION FOR A PERI	MIT TO PLUG AND ABANDON
4)	Well Type: Oil/ Gas _X/ Liquid (If "Gas, Production _X or Und	d injection/ Waste disposal/ derground storage) Deep/ Shallow_X
5)	Location: Elevation 540.002 METERS District VALLEY	Watershed HEADWATERS DECKERS CREEK County PRESTON Quadrangle MASONTOWN
6)	Well Operator Address Consol Gas Company 1000 Consol Energy Drive Canonsburg, PA 15317	7) Designated Agent Christopher Turner Address P.O. Box 1248 Jane Lew, WV 26378
8)	Oil and Gas Inspector to be notified Name Gayne J Knitowski Address P.O. Box 108 Gormania 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 man	RECEIVED Office of Oil and Gas OCT 12 2017 WV Department of Environmental Protect
	fication must be given to the district of can commence.	il and gas inspector 24 hours before permitted
Wor}	order approved by inspector	Date 10/10/2017

Holmes #7142

Deckers Creek, Preston County, WV Original Completion: 10/16/1977 API# 47-077-00186 Elevation = 1773'

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 @ 7879')
- 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. @ 6900')
- 5. Verify TOC
- 6. RIH Jet Cut/Collar Bust 4 1/2" Casing above Bottom Hole Plug
- 7. Attempt to pull 4 1/2" Casing at min. 1/2 times string weight
 - a. If unable to pull run bond long/free point and cut where free
- 8. TIH with 2 3/8" Workstring to 2000' and set Class A Cement Plug from 2000' to surface
- 9. Install monument with Well Name, API#, & Company Name. Monument must extend 30" min. above ground level and be 6" in diameter.

10. Redain were 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:

SET 200' CLASS A CEMENT PLUG ACROSS 41/2" CASING CUT.

SET 200' CLASS A CEMENT PLUG IN COMPENTENT OPEN HOLE AT \$2 3500'. (SAFETY PLUG).

RECEIVED Office of Oil and Gas

OCT 1 2 2017

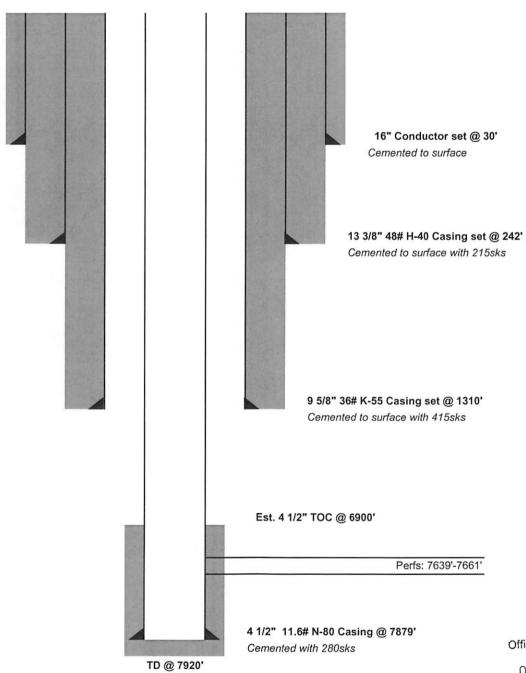
WV Department of Environmental Protection

A NOTE CALIPER LOG GOOD TO 6000'.

Holmes #7142

Deckers Creek, Preston County, WV

Original Completion : 10/16/1977 API #: 47-077-00186 Elevation = 1773'



RECEIVED Office of Oil and Gas

OCT 1 2 2017

WV Department of Environmental Protection STATE OF WILL MINISTRAL DEPARTMENT OF EJECS

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Oil and Cas Livision

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Table Descriptions
County Code Translations
Permit-Numbering Series
Usage Notes
Contact Information

Get Data

Production
Stratigraphy
Logs Plugging
Sample
Btm Hole Loc

Well: County = 77 Permit = 00186

Report Time: Tuesday, November 14, 2017 5:06:33 PM

There is no Bottom Hole Location data for this well ocation Information: View Map (1907) OUAD 75 OUAD 15 LAT DD LON DD UTRIE UTRIN API COUNTY PERMIT TAX DISTRICT OUAD 75 OUAD 15 LAT DD LON DD UTRIE UTRIN Masontown Morgantown 39.510725 -79.829676 600609.2 4374108.5

ompletion Information:

API CMP_DT SPUD_DT ELEV DATUM FIELD

707700186 10/16/1977 9/22/1977 1773 Ground Level S Burns Chapel

LPI CMP_DT SUFFIX STATUS SURFACE_OWNER WELL_NUM CO_NUM LEASE
707700186 10/16/1977 Original Loc Completed DO&CL Holmes 12432 Donald Holmes LEASE_NUM MINERAL_OWN OPERATOR_AT_COMPLETION PROP_VD PROP_TRGT_FM TFM_EST_PR 128796 DO&CLHolmes Consolidated Gas Supply Corp.

DEEPEST_FM DEEPEST_FMT INITIAL_CLASS FINAL_CLASS TYPE RIG Helderberg Oriskany Development Well Development Well Gas Rotary

CMP_MTHD TVD Acid+Frac 7906

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 Production Gas Information: (Volumes in Mcf)

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http://www.wvgs.wvnet.edu/oginfo/pipeline/pipeline2.asp

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4707700186	Original Loc Driller's Tully	Driller's Tully	Well Record	7152	Reasonable	86	Reasonable	1773	Ground Level
4707700186	Original Loc	Original Loc Onondaga Ls	Well Record	7578	Reasonable	17	Reasonable		Ground Level
4707700186	Original Loc	Huntersville Chert	Well Record	7595	Reasonable	175	Reasonable		Ground Level
4707700186	Original Loc Oriskany	_	Well Record	7770	Reasonable	73	Reasonable	1773	Ground Level
4707700186	Original Loc Helderber	9	Well Record	7843	7843 Reasonable	0	Reasonable	1773	Ground Level
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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	Wireline (E-Log) Information: API LOG_TOP LOG BOT DEFEST_FML LOGS_AVAIL SCAN DIGITIZED GR_TOP GR_BOT D_TOP D_BOT N_TOP N_BOT T_TOP T_BOT S_TOP S_BOT O_TOP D_BOT INCHZ
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Quick Reference Guide for Log File Names For more info about WWGES scanned logs click here geologic log types: d density (ncludes 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.)

- I laterolog m dipmeter n neutron porosity, sidewall neutron—SWN, etc.)
- sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
 z spontaneous potential or potential
 mechanical log types:
 b cement bond
- p perforation depth control or perforate

other 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

There is no Plugging data for this well

There is no Sample data for this well

http://www.wvgs.wvnet.edu/oginfo/pipeline/pipeline2.asp

00-11

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES



OCT 1 9 1977

OIL & GAS DIVISION DEPT. OF MINES

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	"I, the undersigned, hereby	certify that this map is correct to the best of	my knowl-	RECEIVED
		all the information required by paragraph 6 and gas section of the mining laws of West V		Office of Oil and Gas
		•		OCT 1 2 2017
New Location —— 🗵 Drill Deeper —— 🗆				
Abandonment	MAP SHEET 933-1	13 FB 1697 PG-2-4		WV Department of Environmental Protection
Company CONSOLIDATED GA	S SUPPLY CORP.	STATE OF WEST VIRG	NIA .	
Address CLARKSBURG _ W	V	OIL AND GAS DIVISION		
Farm DO BL HOLMES TO HOL	MES]	CHARLESTON		
TractAcres43	Script No. 12432	WELL LOCATION	MAP	
Well (Farm) No	73'	FILE NO. PLS -	186	
Quadrangle MASONTOWN 7.1	2			
County PRESTON	DIŞÜTİÇIL XALLEY	+ Denotes location of well on t Topographic Maps, scale 1 to 24.	Jniled States 000 Intitude	1
Engineer Colol Colo	eas wolded	and longitude lines being represent	led by border	
Engineer's Registration N	6-119-211	lines as shown.	order line of	
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4 OHM 1 928		· 7!	563	

WW-4A	
Revised	6-07

(a) Name

Address

4) Surface Owner(s) to be served:

SPIKES CHIMNEY SWEEP LLC

2145 ZINN CHAPEL RD

1) Date:				
2) Operator's Well Number 7142				
3) API Well No.: 47 -	077		00186	

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

5) (a) Coal Operator

Name

Address

N/A

	REEDSVILLE WV 26547		
(b) Name		(b) Coal O	wner(s) with Declaration
Address		Name	Patriot Mining Company c/o Ark Land Company
		Address	One City Place Drive Suite 300
			St. Louis, MO 63141
(c) Name		Name	
Address	*	Address	
6) Inspector	Gayne J Knitowski	(c) Coal Le	ssee with Declaration
Address	P.O. Box 108	Name	N/A
	Gormania WV 26720	Address	
Telephone	304-546-8171		
(1) The well (2) The	application to Plug and Abandon a W its and the plugging work order; and plat (surveyor's map) showing the wel	Vell on Form WW-4B, which il location on Form WW-6.	eived this Form and the following documents: In sets out the parties involved in the work and describes the dication which are summarized in the instructions on the reverses side.
However, y	you are not required to take any action at all	•	
accompany Protection, the Applic	ying documents for a permit to plug and aba, with respect to the well at the location des	andon a well with the Chief of t scribed on the attached Applicate egistered or certified mail or de	l operator proposes to file or has filed this Notice and Application and the Office of Oil and Gas, West Virginia Department of Environmental cion and depicted on the attached Form WW-6. Copies of this Notice, elivered by hand to the person(s) named above (or by publication in

Subscribed and sworn before me t

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

nsylvania

By:

Its:

Address

Telephone

Well Operator Consol Gas Company

Sarah Weigand

724-485-3244

Permitting Manager

1000 Consol Energy Drive

Canonsburg, PA 15370

County of Greens

OCT 12 2017

My Commission Expires FORMAN 13 101

Notary Public

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 deprivacyoffier@wv.gov.

WW-9 (5/16)

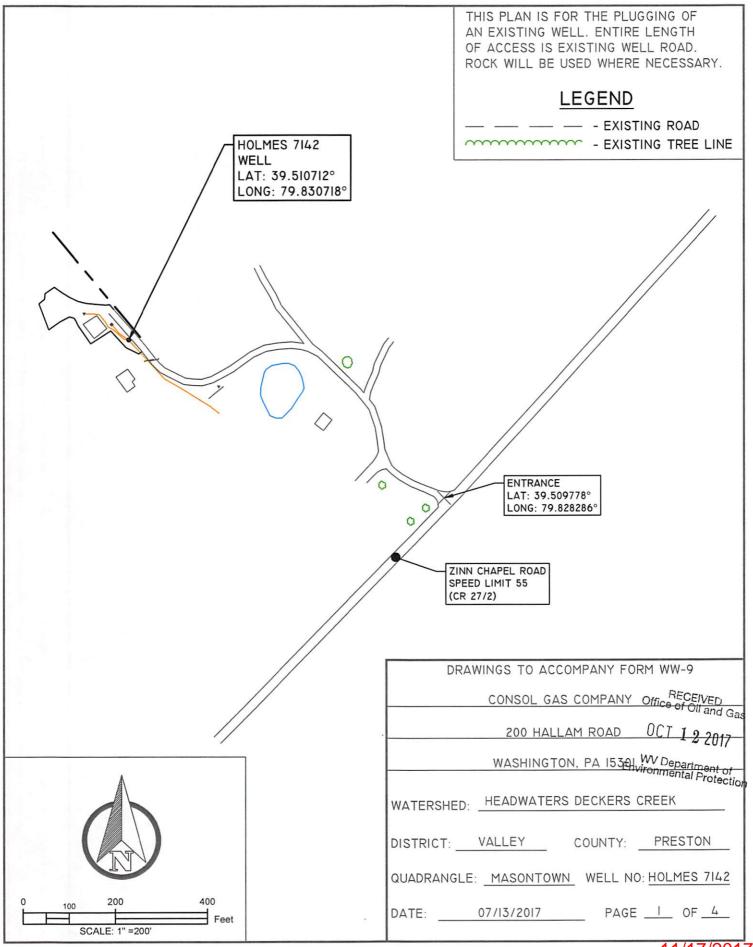
API Number	47 -	077	_ 00186	
Operator's W	ell No	y		•

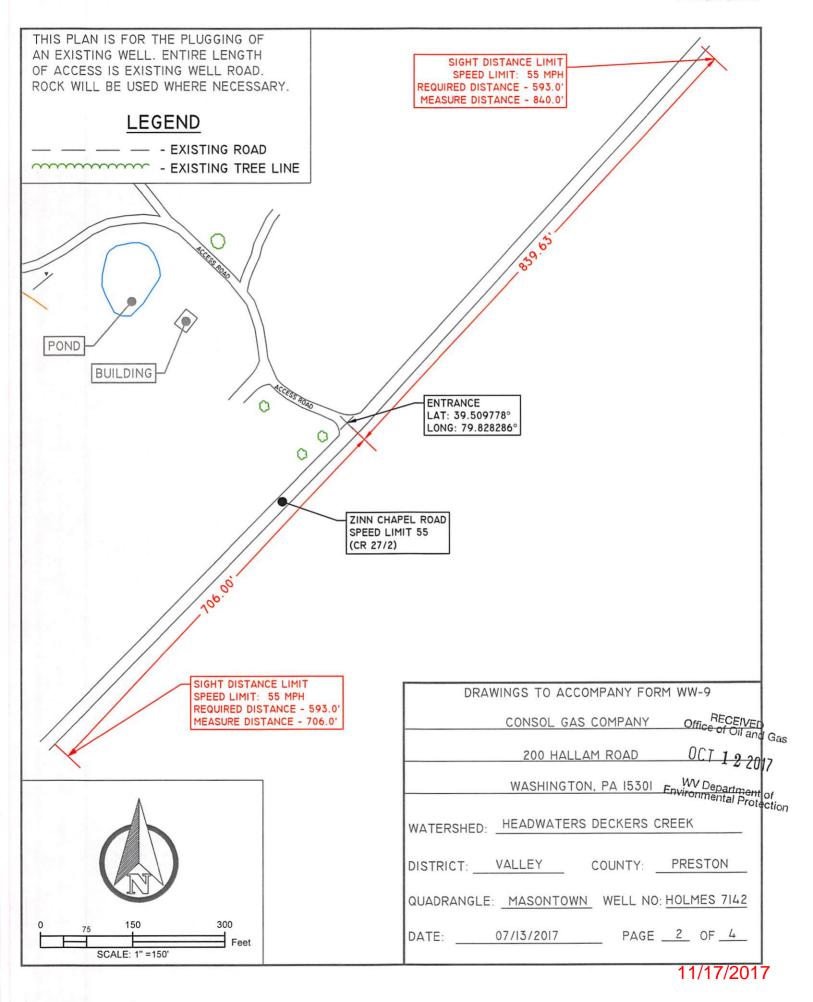
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

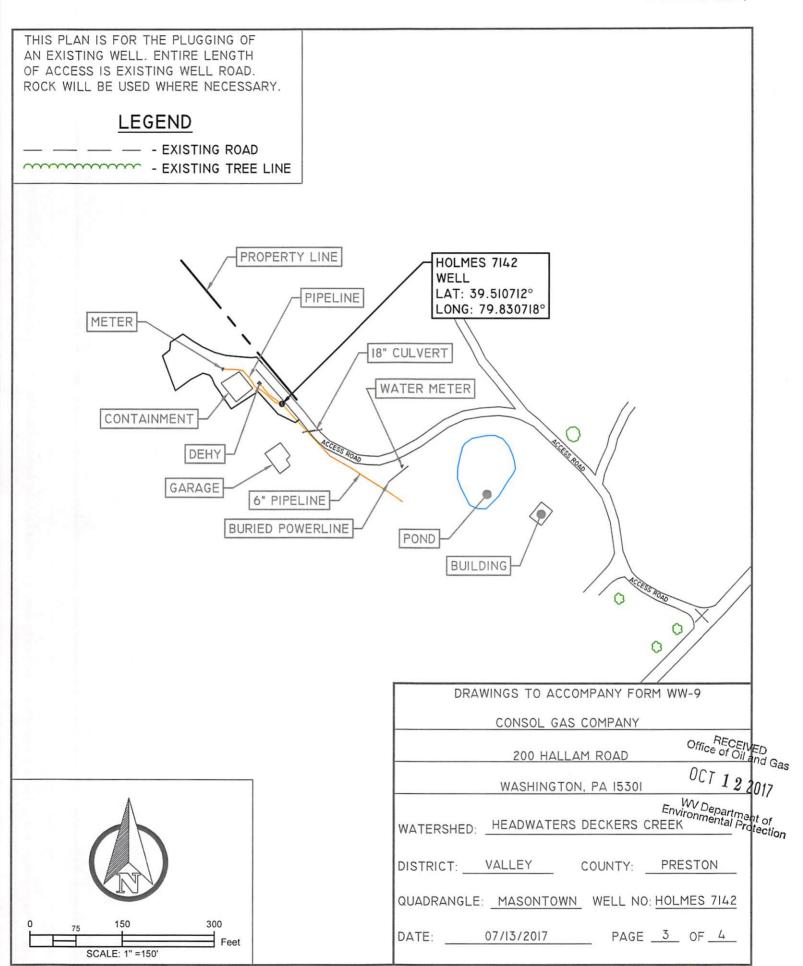
TEOIDS/ COTTINGS DISTOSAE & RECEAMATION TEAN
Operator Name Consol Gas Company OP Code 494495754
Watershed (HUC 10) HEADWATERS DECKERS CREEK Quadrangle MASONTOWN
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No
Will a pit be used? Yes No _✓
If so, please describe anticipated pit waste: Will a synthetic liner be used in the pit? Yes No If so, what ml.?
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, etcna
-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 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 Cas 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 Company Official Signature Company Official Title Permitting Manager Wy Department of Environmental Protection Environmental Protection
Commonwealth of Pennsylvania County of Crooms
Subscribed and sworn before me this 28 m day of spenter, 20 7
Notary Public COMMONWEALTH OF PENNSYLVANIA
My commission expires FORMAL 3, 2019 My commission expires FORMAL 3, 2019 MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES
TOTAL STATION OF NOTARIES

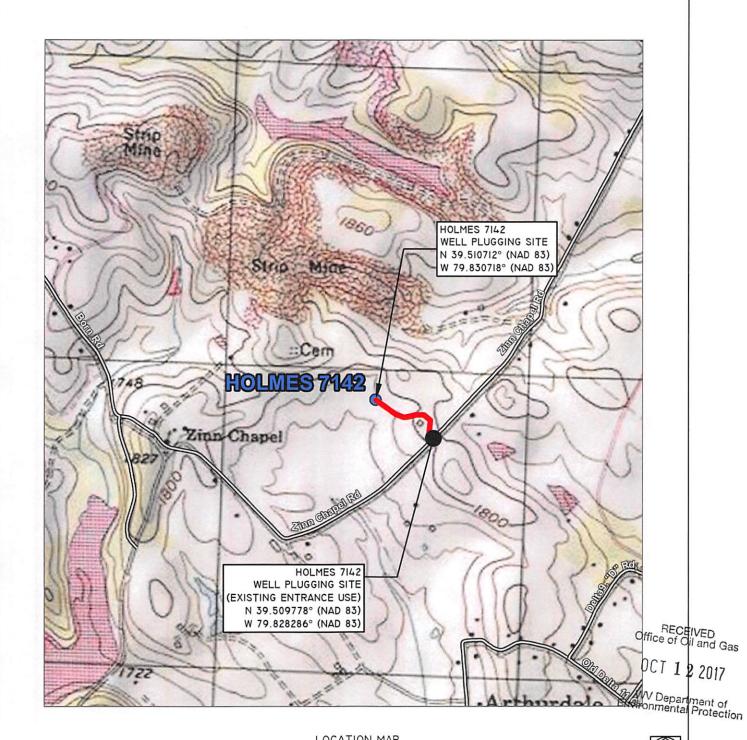
Operator's Well No.

	ed Mixtures Perma Seed Type		
Fertilizer type 10-20-20 or equivalent Fertilizer amount 500 Mulch hay or straw 2 Temporary Seed Type lbs/acre Tall Fescue 40	lbs/acre s/acre eed Mixtures Perma Seed Type		
Fertilizer amount 500 Mulch hay or straw 2 Ton Seed Type lbs/acre Tall Fescue 40	s/acre <u>eed Mixtures</u> Perma Seed Type		
Mulch hay or straw 2	s/acre <u>eed Mixtures</u> Perma Seed Type		
Temporary Seed Type lbs/acre Tall Fescue 40	<mark>eed Mixtures</mark> Perma Seed Type		
Temporary Seed Type lbs/acre Tall Fescue 40	Perma Seed Type		
Seed Type lbs/acre Tall Fescue 40	Seed Type		
Tall Fescue 40	Same and the second sec	No a /a a wa	
031 194000 1	T " F	lbs/acre	
Landino Clover 5	Tall Fescue	40	
	Landino Clover	5	
(L, W), and area in acres, of the land application area. Photocopied section of involved 7.5' topographic sheet. Plan Approved by: Hayne J Kn.			
Comments:			
- Revolut site ASAP			
- Install Soil excision measur	es along access ro	and physins	5
Site as preded.			N.
		RF	CEIVED, COS
			of Oil and Gas
			1 2 2017
			Department of
Title: Tusperton	Date: 10 10 2017	WV L Environi	Department of mental Protect









LOCATION MAP
MASONTOWN, WV 7.5M USGS QUADRANGLE
SCALE: I"=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 HOLMES 7142 GAS WELL VALLEY DISTRICT PRESTON COUNTY, WV

> CONSOL GAS COMPANY 200 HALLAM ROAD WASHINGTON, PA 15301

DRAWN E	BY: LLF	
CHECKED	BY: WPF	
DATE: 0	7/13/2017	
SCALE:	1"=1000'	
WATERS	SHED:	

HEADWATERS DECKERS CREEK

PAGE __4_ OF _4_



West Virginia Department of Environmental Protection Office of Oil and Gas

WELL LOCATION FO	ORM: GPS
API: 47-077-00186	WELL NO.: 7142
FARM NAME: Holmes	
RESPONSIBLE PARTY NAME: Sarah Weig	gand
COUNTY: Preston DIST	
QUADRANGLE: Masontown SURFACE OWNER: SPIKES CHIMNEY	Y SWEEP LLC
ROYALTY OWNER:	
UTM GPS NORTHING: 4,374,105.953 METER	RS
UTM GPS EASTING: 600,519.624 METERS G	GPS ELEVATION: 540.002 METERS
The Responsible Party named above has chosen to subspreparing a new well location plat for a plugging permit above well. The Office of Oil and Gas will not accept the following requirements: 1. Datum: NAD 1983, Zone: 17 North, Coording height above mean sea level (MSL) – meter 2. Accuracy to Datum – 3.05 meters 3. Data Collection Method: Survey grade GPS × Post Processed Differential	it or assigned API number on the GPS coordinates that do not meet inate Units: meters, Altitude: rs. Office of Oil and Gas OCT 1 2 2017
Mapping Grade GPS: Post Processed Differe	
Real-Time Differential	1
4. Letter size copy of the topography map sl. I the undersigned, hereby certify this data is correct to the belief and shows all the information required by law an prescribed by the Office of Oil and Gas. Permitting No. Signature Title	the best of my knowledge and and the regulations issued and