

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

Austin Caperton, Cabinet Secretary www.dep.wv.gov

Friday, April 26, 2019
WELL WORK PLUGGING PERMIT
Vertical Plugging

ROSS AND WHARTON GAS COMPANY, INC. RT. 5, BOX 29

BUCKHANNON, WV 262010000

Re: Permit approval for 1 47-021-03012-00-00

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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, 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: 1

Farm Name: CONOR DEWALL

U.S. WELL NUMBER: 47-021-03012-00-00

Vertical Plugging
Date Issued: 4/26/2019

Promoting a healthy environment.

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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.

CUT.

WW-4B Rev. 2/01

1) Date February 26	,	04/26	/2019
2) Operator's			
Well No. L.B. Bonr			
3) API Well No.	47-021	- 03012	1

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

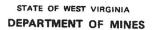
4.)	Well Type: Oil / Gas X / Liquid	N injection / Waste dispess
4)		derground storage) Deep/ Shallow X
	(II das, IIodaetion of one	religiound Stolage/ Deep/ Shallow
5)	Location: Elevation 1035'	Watershed Barnett Run
	District Glenville	County Gilmer Quadrangle Glenville
6)	Well Operator Ross & Wharton Gas Co. Inc.	7) Designated Agent Mike Ross
	Address 354 Morton Ave.	Address P.O. Box 219
	Buckhannon, WV 26201	Coalton, WV 26257
0.1	Oil and Con Transaction to be matified	O. P.L. and an Good board and
8)	Oil and Gas Inspector to be notified Name Danny Mullins	Name N/A
	Address 220 Jack Acres Rd.	Address
	Buckhannon, WV 26201	Add1699
	Set cement plug 550' to 650'(8" casing	out Set 100' cement plug 3000' to 3100' e), Set cement plug 1000' to 1100' elevation plug
		MAR 8 2019
		WV Department of Environmental Protection
		1 and gas inspector 24 hours before permitted
	c can commence. c order approved by inspector	Mllm Date 3-4-19

04/26/2019

OG-10 Rev. - 9-71

61







OBLOGAZ UNISION

Oil and Gas Division

WELL RECORD 4

Quadrangle Glenville

Permit No.G11-3012

Rotary_X_ Oil_ Cable_ GasX Recycling Comb. Water Flood__ Storage_

			Disposal	(Kind)
CompanyPacific States Cas & Oil Address P.O. Box N Glenville, W.Va. 26351 Farm L.B. Bonnett Acres 250	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Location (waters) Barnett Run	Size			
Well No. E.A. #1 Elev. 1035	20-16			
District Glenville County Gilmer	Cond.			
The surface of tract is owned in fee by William I.	13-10"			1
Dwyer, Jr.	9 5/8			1
Address Glenville, W.Va. 26351	8 5/8	596	596	Surface
Mineral rights are owned by L. B. Bonnett	7			1
Address Glenville, W.Va. 26351	5 1/2			1
Drilling Commenced 4-29-78	4 1/2	6552	6552	450 SKS
Drilling Completed 5-5-78	3			1
Initial open flow N/A cu. ft bbls.	2			†
Final production 60,000 cu. ft. per day bbls.	Liners Used			1
Well open 4 hrs. before test 2300 RP.				
Well treatment details:	Attach copy of	comenting rea		
Perf: 8-0 /0" Holog @ 6277 6200 6465 6474	((00 ((00 ()	cementing rec	ora.	

Perf: 8-0.49" Holes @ 6377,6390,6465,6474,6482,6489,6495,6501

Frac: 1,000 Gals. 15% HCL, 520 BB1 H₂0, 750 Lbs. WG-12 Water Gel, 36 Gal. Pen-5,36 Gal/ GBW-3 24 galCLA-STA, 10,000 lbs. 80/100 sand, 40,000lbs. 20/40 sand, 30.25 tons CO2. Injection Rate @ 16.9 BBL H, O and 4 BBL CO, Per Minute.

Coal was encountered at __293-297 537-540 Feet_ Fresh water @35' Feet _ Salt Water. Feet _ Producing Sand_ Devonian Shale Depth 6377-6501

Formation Color Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water * Remarks
Surface Fill	0	10	
Sand and Shale	10	66	
Sand	66	85	
Red Rock & Shale	85	98	
Sand	98	110	
Sand & Shale	110	160	
Sand	160	178	1
Red Rock	178	202	
Sand & Shale	202	293	
Coal	293	297	
Sand & Shale	297	492	
Sand Coal	492	537	
Sand & Shale	537	540	
Shale	540	970	*
Sand & Shale	970	1015	
Little Lime	1015	1542	E Log Top
Blue Monday	1542	1577	3
Big Lime	1577	1594	
Big Injun	1594	1673	
Shale	1673	1753	
Weir	1753	1887	
Shale	1887	1956	
Benson	1956	4554	
2412011	4554	4568	

* Indicates Electric Log tops in the remarks section.

(over)

Formation	Color	Hard or Soft	Top Feet 4	Bottom Feet	Oil. Gas or Water	Remarks
Shale Elk Shale Chert TD			4568 4786 4990 6509 6614	4786 4990 6509 6614		
				est		
			•			

Data November 13, 1978

APPROVED_

Short

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By Executive Vice President

4/17/78 24/26/2019

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L.B. Bonnett		
D.D.Donnett		
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W. E. LYNCH	B. 13.	
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444	3/20	<u>.</u>
	1/2	•
Well location is on the area on	Surface owned by:	
which the coal has been removed	William J. Dwyer, Jr.	•::
,	Glenville, W.Va.	
Minimum Error of Cl	locure 1 in 200	,
Source of Elevation_	Elev. Well No 7647 = 1035	•
I Fracture	reby certify that this map is correct to the best of my know- shows all the information required by paragraph 6 of the rules	•
New Location and regulations of the	he oil and gas section of the mining laws of West Virginia.	
Drill Deeper	Signed: MSbfpet	
Abandonment Map No.	Squares: N S // E W	!
Company PACIFIC STATES GAS and DIL INC.	STATE OF WEST VIRGINIA	·
,	DEPARTMENT OF MINES OIL AND GAS DIVISION	
Address PO Box 67, Glenville, W.Va. 26351 L.B. Bonnett Farm M. Frankrick, WILLIAM U. Dwy	CHARLESTON	,
TractAcres 250 Lease No		
Well (Farm) No. PS. No Serial No	WELL LOCATION MAP	,
Elevation (Spirit Level)	FILE NO.GIL-3012 - Frac	
Quadrangle Glenville 7/2. Glenville 15		
County Gilmer District Glenville	+ Denotes location of well on United States	
Engineer MSSFall	Topographic Maps, scale 1 to 2500 latitude and longitude lines being represented by	<i>:</i>
Engineer's Registration No. 1227 LLS 200	border lines as shown.	
File No Drawing No	— Denotes one inch spaces on border line of	
Date March 27, 1978 Scale 1" 1000'	original tracing. 47-021	

WW-4A Revised 6-07

1) Date:	February 26 2019	
2) Operator	's Well Number	
L.B. Bonnett #1		

3) API Well No.: 47 -

021 - 03012

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

		NOTICE 0F	APPLICATION	TO PLUG AN	D ABANDON A W	$\underline{\mathrm{ELL}}$		
4)	Surface Own	er(s) to be served:	5) (a)	Coal Operator				
,	(a) Name	Conor Dewall) (u)	Name	N/A			
	Address	176 B Jessie's Run Rd.		Address				
		Coxs Mill, WV 26342						
	(b) Name			(b) Coal Ow	ner(s) with Declara	tion		
	Address			Name	N/A			
				Address				
	(c) Name			Name				
	Address			Address				
6) I	nspector	Danny Mullins		(c) Coal Less	see with Declaration	n		
	Address	220 Jack Acres Rd.		Name	N/A			
1	iddi ess	Buckhannon, WV 26201		Address				
r	Гelephone	1-304-932-6844		radross				-
	Take notice to accompanyin Protection, we the Application	are not required to take ar hat under Chapter 22-6 of g documents for a permit to ith respect to the well at the	ny action at all. the West Virginia Code, the oplug and abandon a well be location described on the mailed by registered or or or the control of the contro	ne undersigned well o with the Chief of the e attached Applicatio certified mail or deli	perator proposes to file or h Office of Oil and Gas, Wes n and depicted on the attack vered by hand to the person	nas filed this Notice and st Virginia Department of hed Form WW-6. Copic	Application of Environments of this No	n and ental otice
			Address 35	resident 64 Morton Ave.	XOF	2	RE(CEIVED Oil and Gas
			and the second second	uckhannon, WV 2620 304-472-4289	71		MAR	8 2019
My	scribed and s Commission I		s <u>anthy</u> day of tember an, ao		Notary Pub	OFFI NOTA STATE OF BRENI 20 GI BUCKHAN	CIAL SEAL RY PUBLIC WEST VIRGI DA K BUS UM STREET INON, WV 26	INIA H 5201
The	Office of Oil an	d Cae processes vous	navcanal informatic			My Commission Ex	thires september	21,2020

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)

				04/26/2019
Number	47 -	021	_ 003012	

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

API

Operator's Well No._

FLUIDS/ CUTTINGS DISPOSE	AL & RECLAMATION PLAN
Operator Name_Ross & Wharton Gas Co. Inc.	OP Code 306580
Watershed (HUC 10) Barnett Run	Quadrangle Glenville
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:	
If so, please describe anticipated pit waste: Will a synthetic liner be used in the pit? Yes N	o If so, what ml.?
Proposed Disposal Method For Treated Pit Wastes:	
Reuse (at API Number Off Site Disposal (Supply form WW-9	umber)
Will closed loop systembe used? If so, describe:	
Drilling medium anticipated for this well (vertical and horizontal)?	Air, freshwater, oil based, etc.
-If oil based, what type? Synthetic, petroleum, etc	
Additives to be used in drilling medium?	
Drill cuttings disposal method? Leave in pit, landfill, removed offs	site, etc
-If left in pit and plan to solidify what medium will be use	ed? (cement, lime, sawdust)
-Landfill or offsite name/permit number?	
Permittee shall provide written notice to the Office of Oil and Gas West Virginia solid waste facility. The notice shall be provided wit where it was properly disposed.	of any load of drill cuttings or associated waste rejected at any hin 24 hours of rejection and the permittee shall also disclose
I certify that I understand and agree to the terms and condon April 1, 2016, by the Office of Oil and Gas of the West Virginia provisions of the permit are enforceable by law. Violations of any or regulation can lead to enforcement action. I certify under penalty of law that I have personally exapplication form and all attachments thereto and that, based on my the information, I believe that the information is true, accurate, a submitting false information, including the possibility of fine or impossibility.	amined and am familiar with the information submitted on this inquiry of those individuals immediately responsible for o btaining and complete. I am aware that there are significant penalties for
Company Official Signature	Office of Oil and Gas
Company Official (Typed Name) Mike Ross	MAR 8 2019
Company Official Title President	WV Department of Environmental Protection
Subscribed and sworn before me this 27th day of F My commission expires September 27, 2020	OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA BRENDA K BUSH 20 GUM STREET BUCKHANNON, WV 26201

04/26/2019

		Operato	r's Well No	
Proposed Revegetation Trea	atment: Acres Disturbed 1	Preveg etati	on pH 6.5	_
Lime 2	Tons/acre or to correct to p			
Fertilizer type 10-	-20-20	_		
Fertilizer amount	500	_lbs/acre		
Mulch_ Hay	Tor	ns/acre		
	<u>s</u>	eed Mixtures		
Т	emporary	Pe	ermanent	
Seed Type	lbs/acre	Seed Type	lbs/acre	
Fescue	30	Fescue	30	
Contractor's Mix		Contractor's Mix		
	olved 7.5' topographic sheet.			_
Plan Approved by:	and I alken			
			RI Office o	ECEIVED of Oil and Gas
Title: 086 Tuggrot	0	Date: 3-4-19	MAR	8 2019
Field Reviewed? () Yes ()No	WV D Environm	epartment of ental Protection

WW-9- GPP Rev. 5/16

Page	l of $\frac{2}{l}$
API Number 47 - 021	- 03012
Operator's Well No.	

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

GROUNDWATER PROTECTION PLAN

OKOUND WATE	ER PROTECTION PLAN
Operator Name: Ross & Wharton Gas Co. Inc.	
Vatershed (HUC 10): Barnett Run	Quad: Glenville
arm Name:	
. List the procedures used for the treatment and discharg groundwater.	ge of fluids. Include a list of all operations that could contaminate the
N/A	
Describe procedures and equipment used to protect group	undwater quality from the list of potential contaminant sources above.
N/A	
. List the closest water body, distance to closest water discharge area.	body, and distance from closest Well Head Protection Area to the
Barnett Run	
. Summarize all activities at your facility that are already	regulated for groundwater protection.
N/A	
	RECEIVED Office of Oil-and
	MAR 8 20

5. Discuss any existing groundwater quality data for your facility or an adjacent property.

WV Department of Environmental Protection

47-021-03012 P 04/26/2019

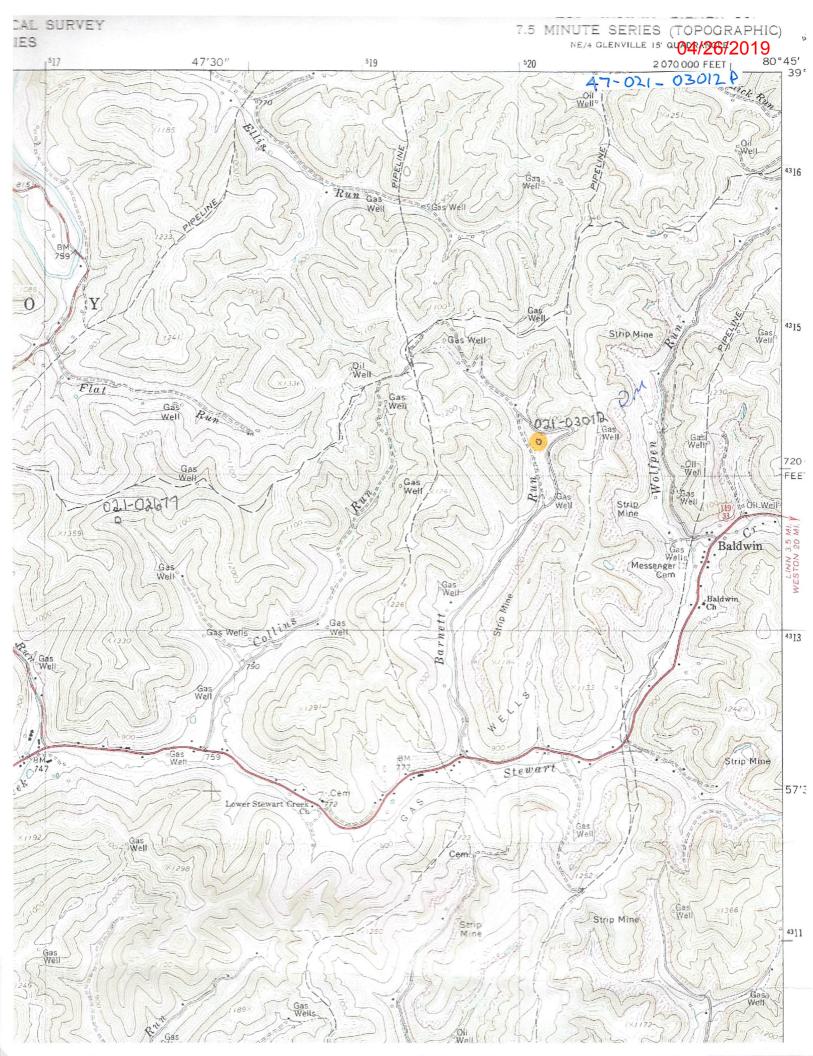
MAR 8 2019

WV Department of Environmental Protection

W	W	-9-	GPP
Re	v.	5/1	6

Date: February 27, 2019

N/A	
Provide a statement that no waste material will be used for deicing or fill material on the prop	erty.
No material will be used	
Describe the groundwater protection instruction and training to be provided to the employed provide direction on how to prevent groundwater contamination.	ees. Job procedures shall
N/A	
Provide provisions and frequency for inspections of all GPP elements and equipment.	
N/A	
On A Doll-	
Signature: Make Kort	DEAL! (ED
	R ECEIVED Office of Oil and



WW-7 8-30-06



West Virginia Department of Environmental Protection Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-021-03012	WELL NO.: 1
FARM NAME: L.B. Bonnet	
RESPONSIBLE PARTY NAME:	
	_{DISTRICT:} Glenville
QUADRANGLE: Glenville	•
SURFACE OWNER: Conor D	ewall
ROYALTY OWNER: L.B. Bor	
UTM GPS NORTHING: 43144	
	O GPS ELEVATION: 1108'
above well. The Office of Oil and Gas the following requirements:	meters
	e Differential
Mapping Grade GPS: Post F	rocessed Differential
Real-	ime Differential
I the undersigned, hereby certify this d	ography map showing the well location. ata is correct to the best of my knowledge and quired by law and the regulations issued and s.
Ticke Roxs	President $3-21-18$
Signature	Title Date