

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

Wednesday, May 13, 2020
WELL WORK PLUGGING PERMIT
Vertical Plugging

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

BUCKHANNON, WV 262010000

Re:

Permit approval for EFFIE JARVIS 1

47-013-03295-00-00

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: EFFIE JARVIS 1

Farm Name: JARVIS, EFFIE

U.S. WELL NUMBER: 47-013-03295-00-00

Vertical Plugging
Date Issued: 5/12/2020

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 February 18		20 20
2)Operator's		
Well No. Effie Jan	vis# 🕻	
3) API Well No.	47 - 013	- 03295

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

	APPLICATION FOR A PERM	MIT TO PLUG AND ABANDON
4)	Well Type: Oil/ Gas X/ Liquid	d injection/ Waste disposal/
	(If "Gas, Production or Und	derground storage) Deep/ ShallowX
5)	Location: Elevation 923'	Watershed Stinson Creek
5,	District Washington	County Calhoun Quadrangle Chloe
		M** - D
6)	Well Operator Ross & Wharton Gas Co. Inc.	7) Designated Agent Mike Ross Address P.O. Box 219
	Address 354 Morton Ave. Buckhannon, WV 26201	Coalton, WV 26257
	20201	Odditori, VVV 20207
8)	Oil and Gas Inspector to be notified	9)Plugging Contractor
	Name Jeremy James	Name N/A
	Address P.O. Box 36	Address RECEIVED
	Clendenin, WV 25045	Office of Oil and Gas
		MAR 2 6 2020
;	Set 100' cement plug across casing co Set cement plug 900' to 1000' elevation Set cement plug 250' to surface,(8"cas	on plug
work	fication must be given to the district of can commence.	il and gas inspector 24 hours before permitted Date $3-17-2020$
	——————————————————————————————————————	

OG-10 Rev. - 9-71



STATE OF WEST VIRGINIA DEPARTMENT OF MINES

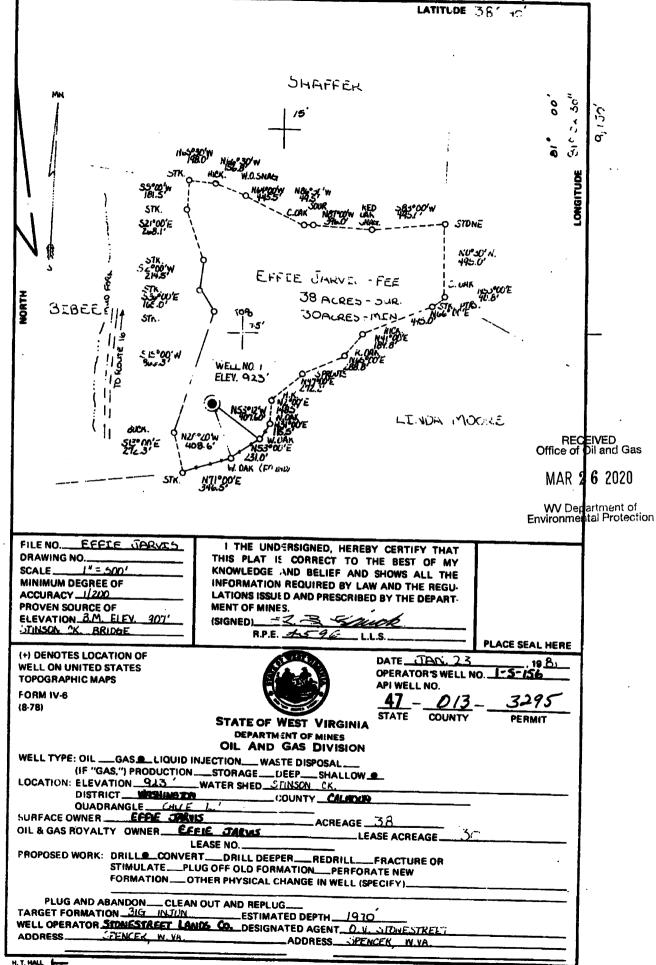
Oil and Gas Division

	WELL	RECORD		RotaryX	Oil	-
Chloe	•			Cable		
Americantic		•		Recycling	Comb	-
Permit No				Water Flood	L_ Storage	•
•	•			Disposal	(Kind)	
Company Stonestreet Lands Comp	any		T			•
Address P.O. Box 350 Spencer,	WV .	Casing and	Used in	Left	Cement fill up	
	38	Tubing	Drilling	in Well	Cu. ft. (Sks.)	
Location (waters)Stinson		C	1			
Well No. 1-5-155	ev 923	Size 20-16				
District Washington County Ca	lhoun	Cond.	Į.	!		
The surface of tract is owned in fee by		13-10"				
Effie Jarvis		9 5/8				
Address Chioe, WV		8 5/8	188	188	60 sks	
Mineral rights are owned by Effie Jary	vis	7				
Address Chloe, WV		5 1/2				
Drilling Commenced 6-18-81		4 1/2		2086	70 sks rfc	
Drilling Completed 6-22-81		3				
Initial open flow15.000cu. ft0		2				•
Final production 620,000 cu. ft. per day_		Liness Used				
Well open5 hrs, before test_	615 RP.					_
Well treatment details:		Attach copy of	cementine reco	vrd		-
J-266 Gell 250 lbs. J-218 Gell	breaker 99	lbs		, u.		
J-318 Gell breaker aid 20 gals.	Yfpsd con	version charge	14,700 ga	ls.	RE	SEIVED
L-53 Clay control agent 15 gals					Office of	Oil and Gas
W-22 Anti sludging 15 gals. ac					1445	5 A
A-200 Inhibitor 1 gal. M-76 bad	ctericide 1	5 gals.	O DDIS. Wa	cer	MAR_	26 2020
20/40 sand 30,000 lbs. 80/100					•	-
	Fee				Environme	partment of intal Protection
Fresh water 50	F66	0-4.1	Inche	-		rital Protection
Fresh water 50 Fe Producing Sand Blue Monday, Big I	njun	Salt \	, 1792-2	014	. Feet	-
		Depti	1			•
Furmation Color Hard or Soft	Top Feet	Bostom Con	0.1.0			-
Color Care Color	Top rect	Bottom Feet	Oil, Gas or	Water	Remarks	
Not recorded	0	1000	0 to 100	0 not rec	orded is	•
Shale .	1000	1020	continue	d on the	back	
Sand & Shale	1020					•
Shale	1050		İ			
Sand & Shale	1168	1 7733				
Shale	1244	1322				
Sand & Shale	1322	1111	ľ			
Sand & Shale	1342					
Shale	1466 1510					
Salt sand	1548					
Shale	1590	1598				
Salt sand	1598					
Shale	1710	1718				
Salt sand	1718					
Little Lime	1766	1792				
Blue Monday	1792	1836	ļ			
Big Lime	1836					
Big Injun	1894		70			
Shale	2014	2114	TD			

Permetten	Color	Vised or Both	Top Feet	Bettem Feet	Oil. Gas or Water * Remarks
Clay Sand & Red Roc Sand & Sand & Shale Sand & Shale Sand & Shale Sand & Shale Sand &	k Shale k Shale k Shale k Shale k Shale Shale		0 40 90 150 201 275 320 400 450 475 500 575 600 630 670 720 795 840 900 950	40 90 150 201 275 320 400 450 475 500 575 600 630 670 720 795 840 900 950 1000	
		•			RECEIVED Office of Oil and Gas MAR 2 6 2020 WV Department of Environmental Protectio

Date July 29 19 81

IOVED General Manager



WW-4A Revised 6-07

1)	Date:	February 18, 2020
2)	Operator's V	Vell Number
Effie	Jarvis #1	

3) API Well No.: 47 -

013 - 03295

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

	, ,	a) Coal Operator	
(a) Name	Eric Jarvis /	Name	N/A
Address	1578 Stinson Rd.	Address	
(1 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Chloe, WV 25325	- 4) 0 10	(A) (A) D. L. (C)
(b) Name			ner(s) with Declaration
Address		_ Name	N/A
		Address	
(c) Name		Name	
Address		Address	
0) I		- () G 11	10 D 1 11
6) Inspector	Jeremy James	- ' ' '	ee with Declaration
Address	P.O. Box 36	_ Name	N/A
m 1 1	Clendenin, WV 25045	Address	
Telephone	1-304-951-2596	_	
well it (2) The p The reason y However, yo Take notice accompanyit Protection, y the Applicat	as and the plugging work order; and lat (surveyor's map) showing the well location you received these documents is that you have right are not required to take any action at all. That under Chapter 22-6 of the West Virginia Code, ag documents for a permit to plug and abandon a we with respect to the well at the location described on	to on Form WW-6. ts regarding the applicate the undersigned well or the ll with the Chief of the of the attached Application or certified mail or deliv	ets out the parties involved in the work and describes the ion which are summarized in the instructions on the reverses side. Deterator proposes to file or has filed this Notice and Application and Office of Oil and Gas, West Virginia Department of Environmental and depicted on the attached Form WW-6. Copies of this Notice, ered by hand to the person(s) named above (or by publication in
	NOTARY PUBLIC TATE OF WEST VIRGINIA BRENDA K BUSH 20 GUM STREET UCKHANNON, WV 26201 UCKHANNON, WV 26201 Nmission Expires September 27, 2020 Address	Ross & Wharton Gas Co 2000 San Co 354 Morton Ave. Buckhannon, WV 2620 1-304-472-4289	070Z 9 Z 8 Z W W
Subscribed and s	prenda Bush	y of <u>March</u>	Notary Public
Oil and Gas Privac	ey Notice		
TO 000 001	10		

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)

API Number 47 - 0	13 _ 03295
Operator's Well No.	

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name_Ross & Wharton Gas Co. Inc.	OP Code 306580
Watershed (HUC 10) Stinson Creek Qu	adrangle Chloe
Do you anticipate using more than 5,000 bbls of water to complete the	
Will a pit be used? Yes No No	IL EFFLUENT MUST BE CONTAINED IN
If so, please describe anticipated pit waste:	BEFORE DISPOSING OF OFF-SITE
Will a synthetic liner be used in the pit? Yes No	If so, what ml.?
Proposed Disposal Method For Treated Pit Wastes:	
Reuse (at API Number Off Site Disposal (Supply form WW-9 for d	r)
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?	RECEIVED Office of Oil and Gas
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, e	etc.
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust)
-Landfill or offsite name/permit number?	WV Department of Environmental Protection
Permittee shall provide written notice to the Office of Oil and Cas of an West Virginia solid waste facility. The notice shall be provided within 2 where it was properly disposed.	
I certify that I understand and agree to the terms and condition on April 1, 2016, by the Office of Oil and Cas of the West Virginia De provisions of the permit are enforceable by law. Violations of any term or regulation can lead to enforcement action. I certify under penalty of law that I have personally examine application form and all attachments thereto and that, based on my inquit the information, I believe that the information is true, accurate, and consubmitting false information, including the possibility of fine or imprison. Company Official Signature Company Official Title President President	epartment of Environmental Protection. I understand that the or condition of the general permit and/or other applicable law ed and am familiar with the information submitted on this iry of those individuals immediately responsible for o btaining omplete. I am aware that there are significant penalties for
Napor Vapor	
Subscribed and sworn before me this 1379 day of March	OFFICIAL SEAL
My commission expires September 27, 2020	Notary Public STATE OF WEST VIRGINIA BRENDA K BUSH 20 GUM STREET BUCKHANNON, WV 26201 My Commission Expires September 27, 2020

Operator's Well No. Effic Jarvi 5#1

Proposed Revegetation Trea	tment: Acres Disturbed 1	Preveg etation p	H 6.5
Lime 2	Tons/acre or to correct to p	H 6.5	
Fertilizer type 10-	20-20		
Fertilizer amount_5	500	lbs/acre	
{Mulch} Hay	Ton	s/acre	
	Se	<u>ed Mixtures</u>	
Te	emporary	Perma	anent
Seed Type Contractor's Mix	lbs/acre	Seed Type Contractor's Mix	lbs/acre
Fescue	30	Fescue	30
provided). If water from the (L, W), and area in acres, of	pit will be land applied, provide	ication (unless engineered plans incluwater volume, include dimensions (L.	
Maps(s) of road, location, porovided). If water from the (L, W), and area in acres, of Photocopied section of invo	pit will be land applied, provide the land application area. Ived 7.5' topographic sheet.		, W, D) of the pit, and dimens
Maps(s) of road, location, p provided). If water from the L, W), and area in acres, of Photocopied section of invo	pit will be land applied, provide the land application area. lved 7.5' topographic sheet.		, W, D) of the pit, and dimens RECEIVED Office of Oil and Ga
Maps(s) of road, location, porovided). If water from the (L, W), and area in acres, of Photocopied section of invo	pit will be land applied, provide the land application area. lved 7.5' topographic sheet.		, W, D) of the pit, and dimens RECEIVED Office of Oil and Games MAR 2 6 2020
Maps(s) of road, location, porovided). If water from the L, W), and area in acres, of Photocopied section of invo	pit will be land applied, provide the land application area. lved 7.5' topographic sheet.		, W, D) of the pit, and dimens RECEIVED Office of Oil and Ga
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WW-9- GPP Rev. 5/16 N/A

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API Number 47 - 0	13	- 03295	
Operator's Well No.	Effice	Januis =	tt (

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

GROUNDWATER PROTECTION PLAN

Operator Name: Ross & Wharton Gas Co. Inc.	
Watershed (HUC 10): Stinson Creek	Quad: Chloe
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	
2. Describe procedures and equipment used to protect grou	undwater quality from the list of potential contaminant sources above.
N/A	
3. List the closest water body, distance to closest water discharge area.	body, and distance from closest Well Head Protection Area to the
Stinson Creek	RECEIVED Office of Oil and Gas
	MAR 26 2020
	*
	WV Department of Environmental Protecti
Summarize all activities at your facility that are already	WV Department of Environmental Protection.
Summarize all activities at your facility that are already	

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

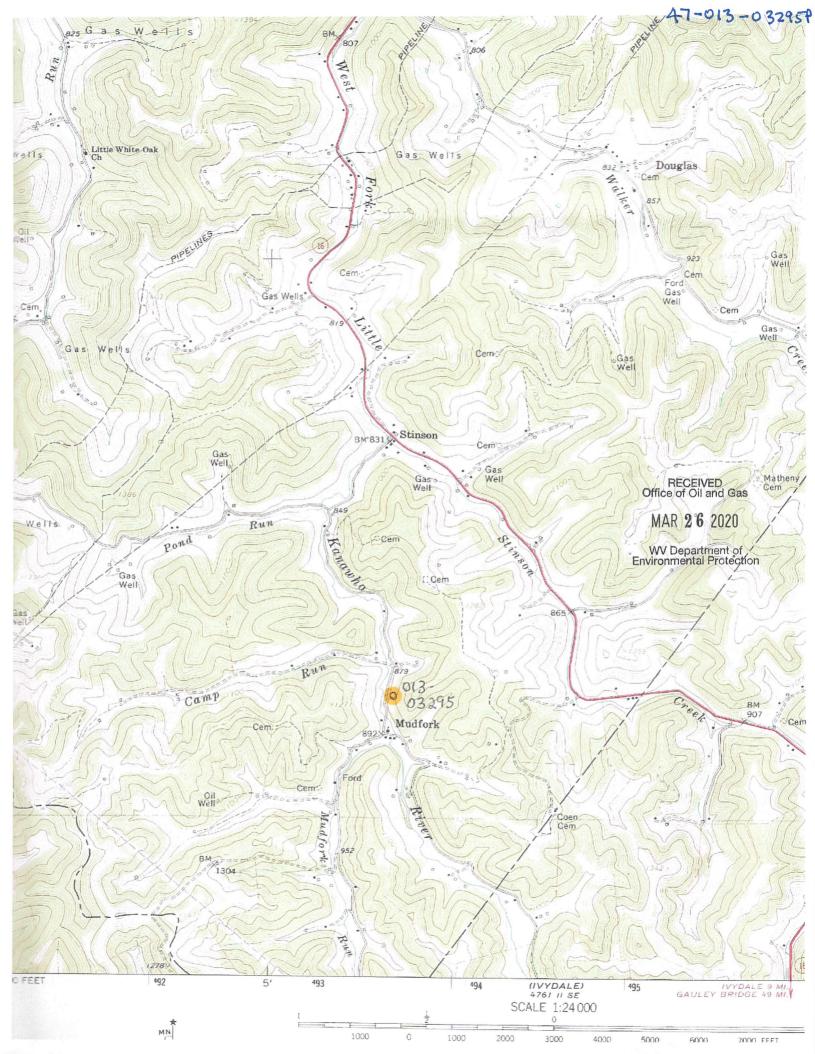
W W-9- GPP Rev. 5/16

Date: March 13, 2020

N/A

Page 2 of 2API Number 47 - 013 - 03295Operator's Well No. Effice Jarvis 1

N/A	
6. Provide a statement that no waste material will be used for deicing or fill material	al on the property.
No material will be used	
 Describe the groundwater protection instruction and training to be provided t provide direction on how to prevent groundwater contamination. 	o the employees. Job procedures shall
N/A	
	RECEIVED Office of Oil and Gas
	MAR 26 2020
	WV Department of Environmental Protection
8. Provide provisions and frequency for inspections of all GPP elements and equip	ment.
N/A	
Signature: Mike Rass	





West Virginia Department of Environmental Protection Office of Oil and Gas

WELL LOCATION FORM: GPS

WELLLO	CATION	OKM. GIS	WELL LOCATION FORM. GIS				
API: 47-013-03295 WELL NO.: #1		1					
FARM NAME: Effic Jarvis	,			_			
RESPONSIBLE PARTY NAME: Mike Ross				_			
COUNTY: Calhoun	I	DISTRICT: Wa	shington	_			
QUADRANGLE: Chloe				-			
SURFACE OWNER: Eric Jarvis			RECEIVED ice of Oil and Gas				
ROYALTY OWNER:			M	IAR 26 2020			
UTM GPS NORTHING: 4277	010.3		W Enviro	V Department of onmental Protection			
UTM GPS EASTING: 49353	1.4	GPS ELEVATI	_{ON:} 923'				
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: 1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters. 2. Accuracy to Datum – 3.05 meters 3. Data Collection Method: Survey grade GPS: Post Processed Differential							
Real-Time Differential							
Mapping Grade GPS: Post Processed Differential							
Rea	al-Time Differen	ntial					
4. Letter size copy of the t I the undersigned, hereby certify thi belief and shows all the information prescribed by the Office of Oil and	s data is correct required by law Gas.	to the best of my k v and the regulation	nowledge and				
Signature Signature	Preside	nt tle	March 13 208 Date	<u> 50</u>			