

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street SE Charleston, WV 25304 (304) 926-0450 (304) 926-0452 fax Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary www.dep.wv.gov

January 04, 2016

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-4103701, issued to EQT PRODUCTION COMPANY, 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 all 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. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalities being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.

Operator's Well No: 8222

Farm Name: OPHA WHITESELL

API Well Number: 47-4103701
Permit Type: Plugging
Date Issued: 01/04/2016

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.
- 4. This well is under a consent order and must be plugged under the terms of that agreement.

CK # 20018

m WW-4 (B) rmit Copy ₃v 2/01)

\$10000

November 20, 2015 Date: Operator's Well Well No. 608222 (Opha Whitesel #1 - 8222) 041 - 03701

API Well No .:

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

APPLICATION FOR A PERMIT TO PLUG AND ARANDON

, Ai	LIOATIO	TORKI EK	10 1 200	AND ADANDON		
Well Type: Oil	Gas	X Lic	quid Injection Waste Disposal:			
If Gas, Production	Χ	Or Undergro	und storage	Deep	Shallow	X
Elevation:	1175 ft.	Watershed:	Right Fork Bear	Run		
	ettlement	County:	Lewis	Quadrangle:	Roanoke 7	.5'
District:			######################################		***************************************	, all 10 10 10 10 10 10 10 10 10 10 10 10 10
	roduction Co		1000		C. Ray	
	ofessional P		Addr	The second secon		
Address: Bridge	port, WV 263	330	_	Bridgeport, WV	26330	-
				ging Contractor:		
Oil & Gas Barry Stolling			_ Nam		Service	
Name: 28 Conifer Dr			_ Addr	ess: PO BOX 995 Buckhannon, WV	26201	
Address: Bridgeport, W	V 26330			Duckilatificit, vvv	20201	
				OFFICE	HECEIVES OF OIL ANI	O GAS
		OFFIC	E USE ONLY			
Notification must be give		rict oil and gas i	nspector, 24 hour	s before permitted work of	can commence	

PLUGGING PROGNOSIS

Whitesel, O.J. #1(608222) Lewis. Co. WV District, Collins Settlement API # 47-041-03701 BY: R.Green DATE: 02/17/15

CURRENT STATUS:

13" @ 18' 9 5/8" @ 690' (CTS) 7"@ 809' (cement w/ 83 sks) 4 ½"@ 2677'(cement w/ 123 sks) TD @ 4800' (plugged back to 2644') Elevation @ 1220'

Fresh Water @ 50' Salt Water @ None reported Coal @ 620'-628' Gas Shows@ None reported Oil Shows @ None reported Well fraced (5th Sand @2588')

1. Notify State Inspector, Barry Stollings, 304-552-4194, 24 hrs. Prior to commencing operations.

2. TIH to 2588', set 100'C1A cement plug 2588' to 2488' (5th sand). WAIT 4 HAS, TAG PLUG, AOD CEMENT IF NECES 200

3. TOOH tbg to 2488' gel hole 2488' to 2100', TOOH tbg.

4. Free point 4 ½" casing, cut casing @ free point. (est @ 2065')TOOH casing,

- 5. Set 100' C1A cement plug 50' in/out of casing cut. Perforate all salt water, fresh water, coal, oil and gas shows below cut. Do not omit any plugs.
- 6. TOOH tbg to 2015', gel hole 2015' to 1270'.
- 7. TOOH tbg to 1270', set 100' C1A cement plug, 1270 to 1170, (elevation).
- 8. TOOH tbg to 1170', gel hole 1170' to 860'.
- 9. TOOH tbg to 860', set 100' C1A cement plug 860' to 760', (7" casing seat). TOOH tbg.
- 10. Free point 7" casing, cut casing @ free point, (est@ 570'), TOOH casing.
- # 11. Set 100' C1A cement plug, 50' in /out of casing cut, perforate all, freshwater, saltwater, coal, oil and gas shows below cut. Do not omit any plugs. DO NOT PERFORATE 95/8" CASING (TIS CENEWICK TO
 - 12. TOOH tbg to 520', gel hole 520' to 200'.
 - 13. TOOH tbg to 200', set 200' C1A cement plug 200' to surface,(13" casing seat, water @ 50').
 - 14. Erect monument with API#.
 - Reclaim location, road to WV-DEP specifications.

ALROSS CUT. THEN MAKE SURE 95/8" CASING SEAT PROCEIVED HAS 100' CIA PLUG FROM 741' TO GAI.

grm

NOV 2 4 2015

Office of Oil and Gas WV Dept. of Environmental Protection

SURFACE.



Static rock pressure



State of Mest Airginia Pepartment of Mines Oil und Gas Division

Date July 1, 1986 Operator's Well No. 1 - 4
Farm Opha J. Whitesel #1
API NO. 47 - 041 - 3701

WELL OPERATOR'S REPORT

	1	DRILLING, FRACT	TURING AND/OR	OF STIMUL	ATING, OF	R PHYSICAL	CHANGE	
	WEIL TYPE: Oi (I	l/ Gas <u>xx</u> f "Gas," Produc	/ Liquid Injection/ Under	ection_ ergrour	/ Waste vi Storage	e Disposal e/ Deep	/ / Shal	1104 <u>xx</u> /)
	LOCATION: Ele							
	Dis	trict: Collins	Settl.County_	Lewis		Quadrangle	Roanok	.e
	COMPANY Gas W	ell Supply Comp	any	_				
	ADDRESS P.O.	Drawer 40, Buck	hannon, WV	<u>262</u> 01	Caging	Used in	Left	Cement fill up
	DESIGNATED AGE	NT Joseph C. P	ettey	_	Tubing	Drilling	in Well	Cu. ft.
		Drawer 40, Buck		1	Size			
		Dept. of the Ar			20-16 Cord.			
		ghth St., Hunti			13-10"	18.00'	18.00'	
	MINERAL RIGHTS	OWNER same	as surface	_	9 5/8	690.851	690.85'	271 cf
	ADDRESS				8 5/8		· .	
		SPECTOR FOR TH			7	2238.00'	809.17'	94 cf
		ADDRESS Rt2, Bo		<u>Lew</u> , wv 26378	5 1/2	ļ	2677 201	139 cf
	DRILLING COMM	4/29/86			4 1/2		2677.30	139 C1
	•	ETED 5/15/86			3			
	TF APPLICABLE	PLUGGING OF	DRY HOLE ON		2		<u> </u>	
	CONTINUOUS PR REVORKING. V	OGRESSION FROM ERBAL PERMISSIO	DRILLING OR ON OBTAINED		Liners	2 3/8"	l	,
	ONTADLOGICAL TA	DOWN SORMATION	Bangan			Dep	th 4400'	feet
anaivo	Porth of	isotranor response	14800'	feet F	otary xxx	/ Cabl	e T∞ls_	
	Water et	rata depth: F	resh ⁵⁰ '	feet;	Salt	 feet	:	-
2 A 201	Water st Coal sea	m depths: 620/0	528	• 	Is coal	being mir	ed in the	area? <u>no</u>
at Oil and	OPEN FLOW DAT	g formation	5th Sand					o'feet
Caron Commen	Gas: In	itial open flo	w no show M	∕cf/d	Oil: In	itial oper	flow	Bb1/c
		nal open flow_	94 M	∕cf/d	Fi	nal open i	Elow	7Bbl/d
		Time of ope	n flow between	en init	ial and f	inal test	sho	ours
		ock pressure_				ment) afte	er 24 hou	urs shut in
	(If app	icable due to	multiple comp	pletion)			
	Second 1	producing forms	tion		Pa	y zone de	pth	feet
	Gas: I	nitial open flo	w!	Mcf/d	Oil: In	itial ope	u iiom	
	F	inal open flow	!	Mcf/d	Oil: Fi	nal open	- " ITOM	
		Time of ope	en flow between	en init	ıal and f	ınaı test	5n	حسن

psig(surface measurement) after ______bours shut in

'(Continue 1408/2016:de)

FORM IV-35 (PEVERSE)

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANCE, ETC. Plugged back to 2644'

Dowell 1 stage Water Frac - 5/22/86

2588/90 - 5th sand - 54,500# sand and 543 bbls water

WELL LOG

				27.02		
FORMATION	COLOR	HARD O	R SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fres and salt water, coal, oil and ca
	Sand & S Coal Sand & S 5th sand Balltown Benson	hale		620 628 2583 3380 4484	620 628 2583 2616 3496 4498 4800'	1/2" stream water @50' T.D. Gas check @TD = no show
	Plugged	back to	2644'	φ		·
	a si	¥	5			
	·	u	ti .	*-		
						1
						k
oive(d	-				

Received

NOV 2 4 2015

(Attach separate sheets as necessary)

Gas Well Supply Company

Office of Oil and Gas

W/V Dept. of Environmental Protection

By: Joseph C. Pettey, Vice President

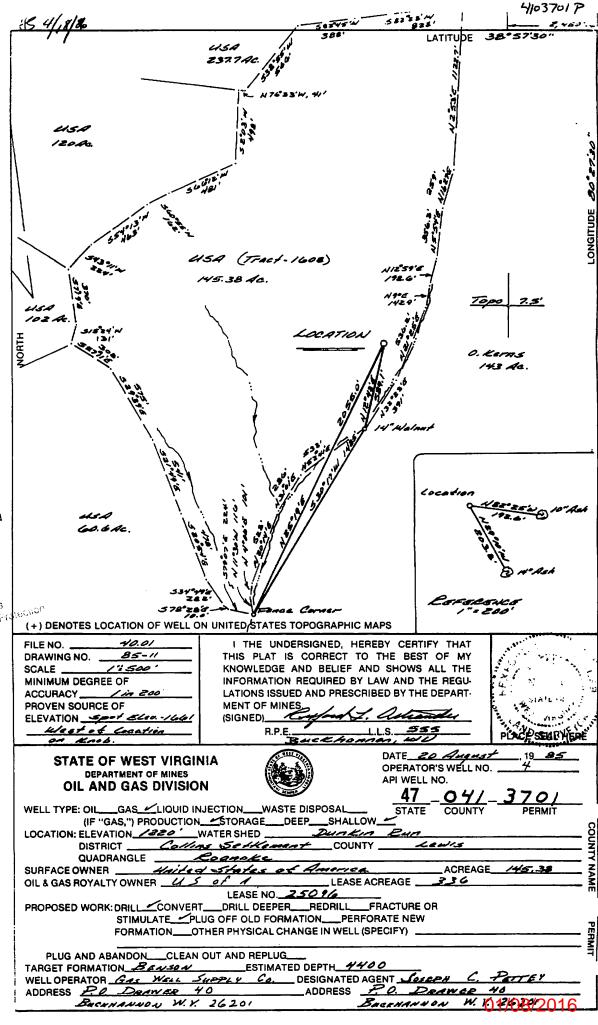
Date: Joseph C. Pettey, Vice President of Production

7/1/86

Well Operator

Note: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including only encountered in the drilling of a well."



NOV 2 A 2015

Office of Oil and Gas NV Doph of Emilionmunical Pro WW-4-A Revised 6/07

1)	Date:	N	lovembe	r 2	0, 2015	
2)	Operator's Well			222	2)	
3)	API Well No.:	47	041	-	03701	

STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL & GAS NOTICE AND APPLICATION TO PLUG AND ABANDON WELL

4)	Surface Owner(s) to be served:	5) (a) Coal Operator:			
	(a) Name	U. S. Army Corps of Engineers	Name	None		
	Address	1012 Skin Creek Road	Address			
		Weston, WV 26452-7435				
	(b) Name	d	(b) Coal Owr	ner(s) with Declaration	l	
	Address	-in/en	Name	U. S. Army Corps of	Engineers	
		Dogelve		1012 Skin Creek Ro	ad /	
			Address	Weston, WV 26452	-7435	
		NOV 2 4 2015				
	(c) Name	NOV 2 4 2010	Name			
	Address		Address	B.		
		Onlice of Oil and Gas			- UM	
		Office of Environmental P				
3)	Inspector	Barry Stollings WV Dept. or	(c) Coal Less	see with Declaration	015	
	Address	28 Conifer Drive	Name	None	9 6 58.55	
		Bridgeport, WV 26330	Address			
	Telephone	(304) 552-4194			. Oas	
				WV De	mecodi	

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 Division 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.

OFFICIAL SEA STATE OF WEST OF THE PROPERTY:	EQT Production Company
NOTARY BYBLIC	Victoria J.Roark
Misty S Christie \$	Permitting Supervisor
1207 Brierc VAddicess:	PO Box 280
Bridgeport, WV 26330	Bridgeport, WV 26330
My Commission Expires February 20, 2018	(304) 848-0076
bscribed and sworn before me this	day of November, 2015
1 late & Chistie	Notary Public
Commission Expires:	2/20/18

The Office of Oil & Gas processes your personal information, such as name, address and phone number, as 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 depprivacyofficer@wv.gov.

WW-9 Revised 2/03

Page	of				
2) Operat	or's Wel	l Nun	nber		
608222 (Opha W	hites	el #1 - 8	3222)	
3) API W	ell No.:	47	041 -	03701	

STATE OF WEST VIRGINIA

DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL & GAS CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name:	EQT PRO	DUCTION COMPAN	Υ	OP ID:		
Watershed:		Right Fork Bear Ru	n	Quadrangle:	Roanoke	7.5'
Elevation:	1175 ft.	County:	Lewis	District:	Collins Sett	lement
Description of antic	ipated Pit Wa	ste:		Formation Fluids	3	
Do you anticipate u Will synthetic liner	-		TO 1	proposed well work? hat ml.?	Yes	No <u>X</u> 20 m
Proposed Disposal	Land A Underg Reuse Offsite Other:	reated Pit Wastes: pplication ground Injection - UIC (at API Number) Disposal Permit #. Explain is well? Air, freshwa				и Е
		e? Synthetic, petrole		·	Hec	celve d
Additives to be use		z: Gynthetio, petrole	um, etc.			
, taati voo to 20 aoo					NOV	2 4 201 5
Will closed loop sy	stem be used	?			IIV.	
If left in	pit and plan to s	Leave in pit, landfill, i solidify what medium wi permit number?				of Oil and Gas vironmental Protection
on August 1, 2005, the provisions of th applicable law or re I certify under pena application form an obtaining the inform	by the Office e permit are e egulation can I alty of law that d all attachme nation, I believ	of Oil and Gas of the inforceable by law. Nead to enforcement a I have personally exents thereto and that,	West Virginia Di	he GENERAL WATER vision of Environments erms or condition of the amiliar with the information uity of those individual e and complete. I am a e or imprisonment.	al Protection. I use general permination submitted its immediately re	understand that t and/or other on this esponsible for
Company Offi	cial Signatur	e	The	AR	_	
Company Offi	cial (Typed o	or Printed) Vio	ctoria Roark			
Company Offi	cial Title	Perm	itting Superviso	r-WV		
Subscribed and	sworn before	me this	nd day of	Dovember	,	2015
My Commission	S Chuju		OFFICIAL STATE OF WES NOTARY F	SEAL Notary F	Public 0/00/c	8
			1207 Brierclif Bridgeport, WV Ny Commission Expires Fr	f Rd & 26330 &		01/08/2016

OPERATOR'S WELL NO.: 608222 (Opha Whitesel #1 - 8222)

LEGEND

Property Boundary	A	Diversion	/////	
		Spring	Wet Spot	
Road		\bigcirc	-6	
Planned Fence	Drain Pipe	with size in inches	Water Wa	y
///	Animal and in the State and Animal An	- 12	C +C-	
Existing Fence	Strea	m	Cross Drain	
Open Ditch		Filter Strip	Rock	
North	Building	Water well	Drill site	
N —		w	\oplus	
Pit with Cut Walls	Pit with Com	pacted Walls Area	a of Land Application	of Pit Waste
Lime 3 To Fertilizer (10-20-20) or ed Mulch 2 To	quivalent	1/3 ton	lbs/acre (500 ll	os minimum)
Area I	SEED MIXTU	RES	Area II	
Seed Type	lbs/acre	Seed Type		lbs/acre
Red Fescue	40	Red Fescue		15
Alsike Clover	5	Alsike Clover		5
Annual Rye	15		7 L Land	CEIVED FOIL AND (
				C 1 8 2015
ATTACH: Drawing(s) of road, location Photocopies section of invo Plan approved by:				C 10 2013
Comments:	The second secon			
Title: Inspecto	R Yes No	Date: 12-/ ⁴	1-15	01/08/2

Topo Quad:	Roanoke	9	Scale:	1" =	2000'	
County:	Lewis	·	Date:	Novembe	er 5, 2015	
District:	Collins Settlem	ent	Project No:	-	73-08	
	47-041-03701	WV 608222	(Opha	Whitesel #1	1-8222)	Торо
nold Palmer Signature at Stonewall Resort	S. Caller Lick Run	1400	las Jess	1600	1600,	200
West Fork River	White 110	Oak Lick Run		Bald Knob	1500	Cheriste 18
e	Fairview Cem	288	47-041-037 WV 60822	1200 NC	1500 V 2 4 2015	d
1100°	Sand Fort. 1100	Sunday Bridge Burken &		Wy Dept. o	Fryironmental P	South Zone .76 8.03 84297 0.467687
VEGHEN	SURVEYING AND MAPP	PING SERVICES PERFORME Y SURVEYS,		EPARED FOR: EQT Produc	ction Co	mpany

1-800-482-8606 237 Birch River Road Birch River, WV 26610 PH: (304) 649-8606 FAX: (304) 649-8608

P.O. Box 280 Bridgeport, WV 26330

01/08/2016

WW-7 8-30-06

Signature



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

API: 47-041-03701 WELL NO.: WV 608222 (Opha Whitesel #1 - 8222)
FARM NAME: Opha Whitesel .
RESPONSIBLE PARTY NAME: EQT Production Company .
COUNTY: Lewis . DISTRICT: Collins Settlement .
QUADRANGLE: Roanoke 7.5'
SURFACE OWNER: _ The United States of America, U. S. Army Corps of Engineers .
ROYALTY OWNER: The United States of America, U. S. Army Corps of Engineers .
UTM GPS NORTHING: 4309620 .
UTM GPS EASTING: 546137 . GPS ELEVATION: 358 m (1175 ft) .
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 South, 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

Title



POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: <u>EQT PRODUCTION COMPANY</u> . LEASE NAME AND WELL No. <u>Opha Whitesel #1-8222 - WV 608222 - API No. 47-041-03701</u> .

POTENTIAL SAMPLE LOCATIONS

There appears to be no known water samples within the required 1000' of the existing well WV 608222.

Received

NOV 2 4 2015

Office of Oil and Gas
WV Dept. of Environmental Protection

BIRCH RIVER OFFICE 237 Birch River Road Birch River, WV 26610

phone: 304-649-8606 fax: 304-649-8608 BRIDGEPORT OFFICE

172 Thompson Drive Bridgeport, WV 26330 phone: 304-848-5035 fax: 304-848-5037 ALUM CREEK OFFICE P.O. Box 108 * 1413 Childress Rd Alum Creek, WV 25003

phone: 304-756-2949 fax: 304-756-2948 RANSON OFFICE

401 South Fairfax Blvd, Suite 3 Ranson, WV 25438 phone: 304-724-5008 fax: 304-724-5010

01/08/2016