

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 08, 2016

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-9700124, 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.

James Martin

Chief

Operator's Well No: 7846

Farm Name: ALLMAN, EVA C., ETAL

API Well Number: 47-9700124
Permit Type: Plugging

Date Issued: 01/08/2016

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.

orm WW-4 (B) ermit Copy lev 2/01)

Da	te:	

December 2, 2015

Operator's Well Well No.

607846 (Allman #2-7846)

097 - 00124 API Well No .: 47

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON							
Well Type: Oil Gas X Lic	quid Injection	Waste Dispos	al:				
If Gas, Production X Or Undergrou		Deep	Shallow	Х			
Elevation: 1484 ft. Watershed:	Saule Pun						
Location: 1484 ft. Watershed: Location: Buckhannon County:	Upshur	Quadrangle:	Berlin 7.5'				
District:			_				
Well Operator EQT Production Company 120 Professional Place	_ 7) Designa Address						
Well Operator Address: 120 Professional Place Bridgeport, WV 26330	_ Address	Bridgeport, WV 2					
	– 9) Plugging	Contractor:					
Oil & Gas Bryan Harris	Name:	HydroCarbon Well Se	ervice				
Name: P. O. Box 157	Address	PO BOX 995	2004				
Address: Volga, WV 26238	_	Buckhannon, WV 26	201				
Work Order: The work order for the manner of plugging this well is as follows: See Attachment for details and procedures. RECEIVED OFFICE OF OIL AND GAS DEC 17 2003							
OFFIC	E USE ONLY						
Notification must be given to the district oil and gas in Surger Work order approved by inspector	nspector 24 hours be	efore permitted work ca Date <u>/ 2</u>	n commence. /4-/5				

PLUGGING PROGNOSIS

E.C, Allman#7846

607846

District, Buckhannon

Upshur, WV

API # 47-097-00124

R. Green

DATE: 11/23/15

RECEIVED OFFICE OF OIL AND GAS

DEC 17 2015

CURRENT STATUS:

Elevation @ 1484'

TD @ 4488'

10" csg @ 279"

8 1/4" csg @ 871'

6 5/8" csg@ 2407"

Freshwater, @ 140', 163', 739', & 852'.

Saltwater @ 9111

Gas show @ 2038', 4238', &4453

Oil shows @ 2579, & 3738',

Coal @ 325', 752', & 813'

- 1. Notify State Inspector, Bryan Harris, 304-553-6087, 24 hrs. prior to commencing operations.
- 2. RIH check TD.
- 3. RIH tbg to 4460', set 350'C1A cement plug 4460' to 4110', (gas shows @ 4453', 4238') WAIT 4 HAS \$ TAC CEMENT. ADD CIA CENEUT IF NECESSARG

4. TOOH tbg to 4110', gel hole 4110' to 3810'.

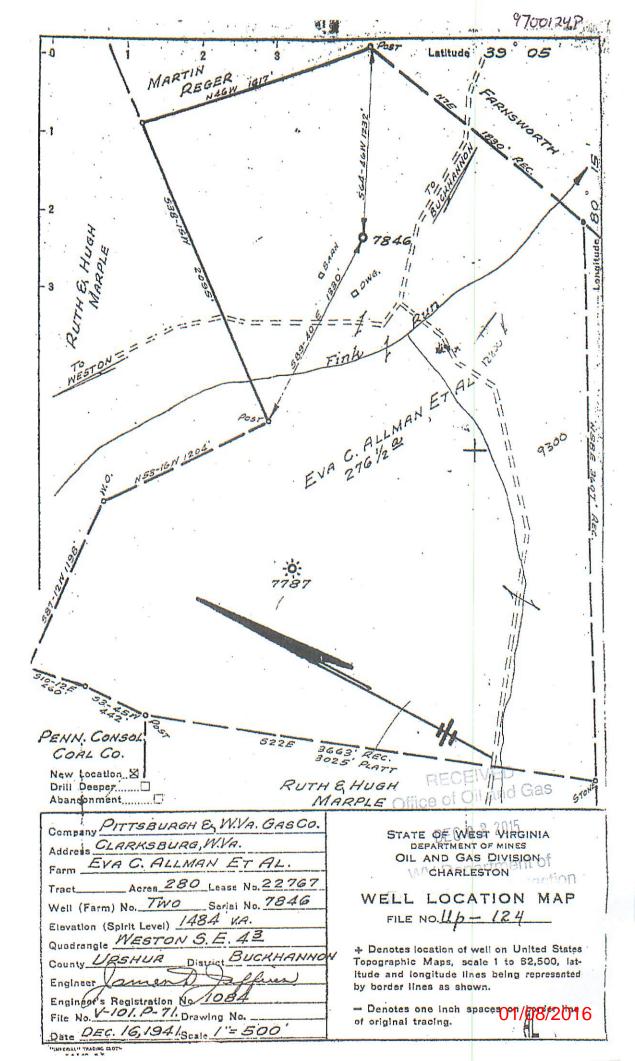
5. TOOH tbg to 3810', set 200' C1A cement plug 3810' to 3610'. (Oil show @ 3738').

6. TOOH tbg to 3610', gel hole 3610' to 3300'.

- 7. TOOH tbg to 3300', set 200' C1A cement 3300' to 3100' (safety plug).
- 8. TOOH tbg to 3100', gel hole 3100' to 2650'.
- 9. TOOH tbg to 2650', set 400' C1A cement plug, 2650' to 2250', (6 5/8" casing seat, & oil show @ 2579'). TOOH tbg.
- 10. TOOH tbg to 2250', gel hole 2250' to 2100'.
- 11. TOOH tbg to 2100', set 100' C1A cement plug 2100' to 2000'. (Gas show @ 2038'). TOOH tbg.
- 12. Free point 6 5/8" casing, cut casing at free point, TOOH csg.
- 13. 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.
- 14. Gel hole to next plug.
- 15. TOOH tbg to 1500', set 100' C1A cement plug 1500' to 1400'. (Elevation)
- 16. TOOH tbg to 1400', gel hole 1400' to 950'.
- 17. TOOH tbg to 950, set 300' C1A cement plug 950' to 650'.(8 1/4" casing seat, Fresh water @ 739' & 852', Salt water @ 911', Coal @ 752', 813').
- 18. Gel hole to next plug. TOOH tbg.
- 19. Free point 8 1/4" casing, cut casing at free point. TOOH casing.
- 20. Set 100' C1A cement plug 50' in/out of cut. Perforate all freshwater, saltwater, coal, oil and gas shows below cut. Do not omit any plugs.
- 21. Gel hole to next plug.
- 22. TOOH tbg to 350', set 150' C1A cement plug 350' to 200'. TOOH tbg. (Coal @ 325', 10" casing seat).TOOH tbg.
- 23. Attempt to cut and pull 10" casing, if unable to cut and pull 10" casing, TIH and perforate 10" casing at 163', 140', and 100'.
- 24. TIH with tbg to 200', set 200' C1A cement plug 200' to surface.
- 25. Erect monument with API# and date plugged.
- 26. Reclaim location, roads to WV-DEP specifications.

WEST VIRGINIA DEPARTMENT OF MINES OIL & GAS DIVISION WELLREGORD

Permit No.	Up-124				Gas Woll
Company				Va. Gas (
Address			ksburg,		10 279 279
Farm				notal	Acros 280 81 871 871
Location			on S/E		6 5/8 2407 2407
Well No		7846		Elev. 14	
District			hannon		ir County Coal at 328°36"
Surface		Eva (C Allma	n et al,	Lorentz, 7.Va. 7529-48"; 8139-48"
Minoral		Eva	U.Allma	n ot al,	Lorontz, W.Va.
Commenced		Jun	80,1942		
Completed		-	1 9,194		
Shot		4-9-	42	Depth 445	il 4464 ⇔60 qbs.
Flow			ths 77 in	n 13"	
Volume		51,0	00 C.F.		
Rock Pross			lbs. 70		
Frosh Wate	r				blr. hr.
					521 21 blrs.
		9111	li blr	8•	
Surface	v		^	12	
Mud	Y ra	8	0	15	Slato R S 1740 1745
Mua Limo	B1	S	15 50	50 70	Limo Gr H 1745 1758
Slato	Gr	Broken		70	Slato Dk S 1753 1755
Limo	R	S	70	118	Big Limo Wh H 1755 1851
	Gr	Ħ	118	125	B.Injun Sd.Gr H 1851 1977
Slato Limo	R Gm	8	125	148	Slate-Sholls Wh H&S 1977 1995
Slato	Gr	Opon	148	164 260	Squaw Sand Wh H 1995 2131
Slato-Shol	R	S	164	260	Slato Bl S 2131 2196
Limo		Close	260 285	285	Boroa Sand Gr H 2136 2161
Slato	Gr Gr	S	310	310	Slato-Shells Wh Has 2161 2185
Coal	Bk	8	326	326 329	Gantz Sand Wh H 2185 2218
Slato-Shol		Broken	329	400	Slatos Shoils R Hes 2218 2404
Slato	R	S	400	43.8	Gordon Stray Wh H 2404 2463
Limo	Gr	H	418		Slato Wh S 2463 2466
Slate-Shel		H H	475	433 487	Gordon Sand Wh H 2466 2476
Slato-Shol		HAS	487	510	Slatob Sholls 7h Has 2476 2524
Slate					5th Sand Wh H 2524 2558
Sand	R Gr	8	510	540	Limo Gr Brokon 2558 2574
Slatosshol		Closo H&S	540 580	580	Sand Br H 2574 3584
Limo	.18 W 17h	H H	610	610 650	Lime & Slato Wh H&S 2584 2632
Slato	G1'	s. S	660	670	Lime Wh H 2892 2647
Lime	Gr	H	670	700	SlatofiSholls 17h Has 2647 2760
Slate	Gı.	S	700	721	Limo Wh H 2760 2783
Sand	17h	Ħ	721	752	Slate &Sholls Wh H&S 2783 2870
Conl	Bk:	s	752	756	Lime Wh H 2870 3040 Slato&Sholls Wh H&S 3040 3080
Limo	Gr	Brokon	756	813	
Conl	Bk	S	813	817	Lime Gr H 3080 3148
Sl.&Sholls		SAH	817	838	Slato&Sholls Wh HbS 3148 3595 Limo Wh H 3595 3792
Send	Wh	H	838	865	
Slato-Shol		Has	865	903	
1st Salt S		H	903	966	
Slato-Shol		Brokon	966	1010	
Sand	Dk	Opon	1010	1025	
Slate	Bk	8	1025	1040	Sluto &Shells Gr SAH 4242 4373 Limo Official H 4373 4403
2nd Salt S		Has	1040	1067	A7_4_ A1_79 - A1_79 - AAAA AAAA
19 19 1	n Wh	Closo	1067	1196	Bonson Sand Dip E(H) 3 4450 4456 Slato Dr S 4466 4472
Slatc&Shol:		Ha 8	1196	1290	Slato Dk S 4466 4472
3 rd Sult		Opon	1290	1320	Limo Gr Closo 4472 - 614488
Slato	BŁ	\$	1320	1323	
Sand	Wh	H	1323	1355	TOTAL DEPTH
Limo	BŁ	Broken	1355	1380	Gas 2038 - 20/10 17 1"
Sand	W)	ä	1380	1415	S.L. 2038
Sinto	Bk	_	1415	1425	Sh. 0il 2579*
Slate	R	8	1425	1460	Sh. 011 3738*
Limc-Slat		: BS	1460	1575	S.L. 4078
Maxon Sar	id Vih	H	1575	1598	Gas 4238° 17/10 W. 1" opng.
Slate She		Has	1598	1700	S.L. 4389 and 4460
Slate Limo	7h	S	1700	1708	Gas 4453-4462 61/10 72 opng.
Slate	7h 3r	H S	1708 1722	1722	-
Jan 90	-1	U	LICG	1740	01/08/2016



WW-4-A Revised 6/07	December 2, 2015 Operator's Well Number
	607846 (Allman #2-7846) 3) API Well No.: 47 097 - 00124
STATE OF WEST VIRGINIA - BUREA DIVISION OF ENVIRONMENTAL PROTECT NOTICE AND APPLICATION TO PLU	TION, OFFICE OF OIL & GAS
4) Surface Owner(s) to be served: (a) Name Charles E. and Jean S. Marks Address 51 Boggess St. Buckhannon, WV 26201	5) (a) Coal Operator: Name None Address
(b) Name Address	(b) Coal Owner(s) with Declaration Name Windamar, Inc. 51 Boggess St. Address Buckhannon, WV 26201
(c) Name	Name Address
6) Inspector Bryan Harris	(c) Coal Lessee with Declaration Name None Address
(1) The application to Plug and Abandon a Well on Form WW-work and describes the well its and the plugging work orde (2) The plat (surveyor's map) showing the well location on Form The reason you received these documents is that you have rig instructions on the reverses side. However, you are not require Take notice that under Chapter 22-6 of the West Virginia Code Notice and Application and accompanying documents for a per and Gas, West Virginia Division of Environmental Protection, we Application and depicted on the attached Form WW-6. Copies	er; and m WW-6. ghts regarding the application which are summarized in the
OFFICIAL SEWell Operator: STATE OF WEST ARGINIA NOTARY PUBLIC Misty S Christie 1207 Briercliff Rd Bridgeport, WV 26330 My Commission Expires February Representations	Victoria J.Roark Permitting Supervisor PO Box 280 Bridgeport, WV 26330 (304) 848-0076
Subscribed and sworn before me this Christian My Commission Expires:	Notary Public
	,

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) Operator's We	II Nun	nber		
607846 (Allman	#2-78	46)		
3) API Well No.:	47	097 -	00124	

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 PRODUCTION	COMPANY		OP	ID:	
Watershed:	Saul	s Run		Quadrangle:	Berlin	7.5'
Elevation:	1484 ft. Cou	ınty:	Upshur	District:	Buckha	
Description of antic	ipated Pit Waste:			Formation Flu	ıids	
Do you anticipate u Will synthetic liner t	sing more than 5,000 bb	ls of water to	complete the p	INCOME THE SECTION OF	? Yes_ 201 9 ml	No <u>X</u>
Drilling medium ant	Underground Inject Reuse (at API Num Offsite Disposal P Other: Explain icipated for this well? Aised, what type? Synthet	ction - UIC Pe mber) ermit #. r, freshwater,	oil based, etc.			
Additives to be used	d?				·	
If left in p Landfill of I certify that I und on August 1, 2005, the provisions of the applicable law or re I certify under penal	cal method? Leave in pit and plan to solidify what or offsite name/permit number offsite name/permit number offsite name of the permit are enforceable gulation can lead to enfolly of law that I have personal all attachments thereto	e terms and of Gas of the Webster Survey and	conditions of the est Virginia Divations of any teon. ned and am fai	e GENERAL WAT ision of Environmerms or condition of miliar with the info	ental Protection. I f the general perm rmation submitted	understand that hit and/or other
obtaining the inform	nation, I believe that the interest time in the interest time false information, in	nformation is	true, accurate	and complete. I a	m aware that ther DEC	e are significant
Company Office	cial Signature		for	AL	WILDER	partment of
Company Office	cial (Typed or Printed)	Victor	ia Roark		Em., "i"	1011
Company Office	cial Title	Permittin	g Supervisor-	WV		
Subscribed and	sworn before me this	and	day of	Necember	,	2015
My Commission	L. S. Christia Expires 3 1985	TV STAT	OFFICIAL SEAL E OF WEST VIRG	INIA 🕈 😅	y Public	
	VVIN	120 Bridge	NOTARY PUBLIC listy S Christ 07 Briercliff Rd geport, WV 26330 ion Expires February	ie www.	o at ==	01/08/201

OPERATOR'S WELL NO.: 607846 (Allman #2-7846)

	LEGEN	D -	607846 (Allm	an #2-7846]
Property Boundary		Diversion	1/1/1	1//
1	0.			
Road	ot of	oring	Wet Spot	
\$10 CH2 CH2 CH2 CH2 CH2 CH2 CH2 CH2 CH3 CH3 CH3	0-		-8-	
Planned Fence	Drain Pipe with s	ize in inches	Water Way	,
//_/		>	€ → € −	▶
Existing Fence	Stream	~~ =	Cross Drain	
Open Ditch	Artificial Filter	r Strip	Rock	
		X	8566	2 1
North	Building	Water well	Drill site	
N		w	\oplus	
Pit with Cut Walls	Pit with Compacte	d Walls Area	of Land Application	of Pit Waste
C. III	777	>-	C=====)
Proposed Revegetation Treatm	ent: Acres Disturbed:	1± Prevegetati	on pH	
Lime 3 To	ons/acre or to correct to pH	6.5		
Fertilizer (10-20-20) or ed	quivalent	1/3 ton	lbs/acre (500 lb	s minimum)
Mulch 2 To	ons/acre or hydroseed.	1	_	¥
	SEED MIXTURES			
Area I			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			
			RE	CEIVED
			OFFICE O	OIL AND GA
ATTACH: Drawing(s) of road, location Photocopies section of invo	, pit and proposed area for land a lyed 7.5' topographic sheet.	application.	DE	C 1 7 2015
Plan approved by:	Jugan Han		_	
Comments:	/			
Title: Inspecto	C [Date: 12-14	-15	_

Topo Quad: _	Berlin 7.5'	Scale: _	1"	= 2000'	
County:	Upshur	Date:	No	ovember 2, 2015	-
District:	Buckhannon	Project	No:39	0-09-00-09	***************************************
	47-097-00124	WV 607846	(Allman	#2-7846)	Торо
1700 1700 1700 1700 1700 1600		47-097- WV 60 PUCKEMINON MIN 333 119	Red Roo Reger Cem 00124 07846 RD Upshur County Regional Airport 1600	CR-1,	BUCKHANN 1500
7600 R-14/2	1700 to 1500	GOLDEN SOND LA SAGLE ST		NAD: 27, N:73201 E:22039 WGS 84 LAT:39.0	80.99 ction 008149 80.282037
NEGHE 10	SURVEYING AND MAPPING S ALLEGHENY S 1-800-48 237 Birch R Birch River, PH: (304) 6 FAX: (304)	URVEYS, INC. 2-8606 iver Road WV 26610 649-8606	EQT Pro	P.O. Box 280 Bridgeport, WV 26330	ompany 1/08/2016



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

API: 47-097-00124 WELL NO.: WV 607846 (Allman #2-7846)
FARM NAME: Eva C. Allman, et al.
RESPONSIBLE PARTY NAME: EQT Production Company
COUNTY: Upshur DISTRICT: Buckhannon
QUADRANGLE: Berlin 7.5'
SURFACE OWNER: Charles R. & Jean S. Marks
ROYALTY OWNER: EQT Production Company, et al.
UTM GPS NORTHING: 4317926 .
UTM GPS EASTING: 562163 . GPS ELEVATION: 452 m (1484 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
Signature P5 # 2180 11/19/15 Signature Title Date
Signature Title Date



POTENTIAL WATER SAMPLE DATA SHEET

CLIENT:	EQT PRODUCTIO	N COMPANY	_ .
LEASE NAM	E AND WELL No	Allman #2-7846 - WV 607846 - API No. 47-097-00124	

POTENTIAL SAMPLE LOCATIONS

Site: <u>1</u>	Spacing:	280	+/-	Owner:	Mike Ross, Inc.		
Address:	PO Box 210	, Coalton	, W	V 26257	I	Phone No	2007
Commen	ts:						

Office of Oil and Gas

DEC 0 3 2015

WV Department 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

PO. 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

01/08/2016



-14/2

SURVEYING AND MAPPING SERVICES PERFORMED BY:

ALLEGHENY SURVEYS, INC.

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

EAGLE ST

EQT Production Company

P.O. Box 280 Bridgeport, WV 26330

WGS 84

LAT:39.008149

LONG:-80.282037 ELEV:1484.08

01/08/2016