

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

August 30, 2013

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-3905303, 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.

Chief

James Martin

Operator's Well No: (COURTLAND 18) WV 215391

Farm Name: THE COURTLAND CO

API Well Number: 47-3905303

Permit Type: Plugging
Date Issued: 08/30/2013

Promoting a healthy environment.

Form WW-4 (B) Permit Copy (Rev 2/01)

Date:	August 15, 2013	
Operator's Well		
Well No.	215391 (Courtland #18)	
API Well No.:	47 039 - 05303	

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

Well Type:	Oil	Gas	X	Liquid Injection	on	Waste Disp	oosal:	
If Gas, Produ		x		ground storag	_	Deep	Shallow	X
	Elevation:	1101'	Watershe	ed: Davis Cre	ek of the	Great Kanawha Riv	er	
Location:	Loudo		County:		awha	Quadrangle:	Charleston We	est 7.5'
District: Well Operate Address:	Bridgepo	duction Co essional P rt, WV 26	lace	7)	Address: Plugging	120 Profession Bridgeport, W Contractor:	V 26330	
Oil & Gas T					Name:	HydroCarbon We PO BOX 995	Il Service	
	O. Box 1207 lendenin, WV	25045			Address:	Buckhannon, WV	26201	
			OF	FICE USE ONLY	,			
Notification	must be given	to the dist	_1	1		pefore permitted we	ork can commen	දිර
	must be given	/	_1	1		pefore permitted we	Receiv	5013
		/	_1	1		pefore permitted we Date	Pece of the period of the peri	5013

PLUGGING PROGNOSIS

Courtland Land Co. #18 (215391)

Kanawha County, West Virginia API # 47-039-05303 District: Loudon

BY: Craig Duckworth

DATE: 2/21/13

CURRENT STATUS:

9 5/8" csg @ 645' cts 4 ½" csg @ 1977' 2 3/8" tbg @ 1841'

TD @ 2041'

Elevation @ 1101'

Fresh Water @ 490

Salt Water @ 875' & 1200'

Salt Sand @ 784' - 1495

Coal @ 6', 148', 450', 600'

Gas shows @ none reported

Oil Shows @ none reported

Stimulation: @ Big Injun (Perfs. @1830'-1840'); Big Lime (Perfs. @1759'-1786')

- 1. Notify State Inspector, Terry Urban 304-549-5915, and 24 hrs prior to commencing operations.
- 2. TOOH w/ 2" tbg and check condition.
- 3. TIH w/ tbg @ 1841'; Set 182' C1A Cement Plug @ 1841' to 1659' (Big Lime & Injun)
- 4. TOOH w/ tbg @ 1659'; Gel hole @ 1659' to 1150'
- 5. TOOH w/ tbg and attempt to pull 4 1/2"; Freepoint 4 ½", cut/shoot 4 ½" at freepoint. Set 100' C1A Cement Plug @ 1150' to 1050' (41/2" csg cut & Elevation)
- Set a 100' C1A Cement Plug 50' In/Out of cut. Perf all FW, Coal, Oil and Gas shows below 41/2"
 cut Do not omit any plugs
- 7. TIH w/ tbg @ 1050'; Gel hole @ 1050' to 784'
- 8. TOOH w/ tbg @ 784'; Set 384' C1A Cement Plug @ 784' to 400' (Salt Sand @ 490', 9 5/8'',coal @ 600',coal @ 450',FW @ 490')
- FYOU PULL 97/6" 4- 9. Set a 100' C1A Cement Plug 50' In/Out of cut. Perf all FW, Coal, Oil and Gas shows below 9
 5/8"" cut Do not omit any plugs
 - 10. TOOH w/ tbg @ 400'; Gel hole @ 400' to 200'
 - 11. TOOH w/ tbg @ 200'; Set 200' C1A Cement Plug @ 200' to 0' (coal @ 148' & 6' & surface)
 - 12. Top off as needed
 - 13. Set Monument to WV-DEP Specifications
 - 14. Reclaim Location & Road to WV-DEP Specifications

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Office of Oil and Gas Protection

Office of Oil and Gas

Office of Oil and Oil

27-Sep-99 WR-35 API# 47- 039-05303 State of West Virginia Division of Environmental Protection Ravie Section of Oil and Gas Well Operator's Report of Well Work Operator Well No .: courtland 18 Farm Name: The Courtland Co. tiellelver Office of Oil & Gas Permitting Quadrangle: Chaleston West LOCATION: Elevation: 1,101.00 County: Kanawha District: Loudon Minutes Seconds JAN 11 2000 Latitude: 2900 Fact South of 38 Deg. 17 30 WV Division of 10470 Feet West of Deg. 37 30 Longitude: Used Left Casing Company: Eastern States Oll & Gas Fill Up & Tubing P.O. Box 2347, 1710 Pennsylvania Avenue In In Drilling Well Charleston, WV 25328 Size Cu. Ft. 27' 13 3/8" 27' Grouled Robort Alley Agent: Carlos Hively Inspector: 645 645 206.5 (12 Permit Issued: 9/27/99 11/16/99 Well work commenced: Well work completed: 12/13/99 151.2 113 4 1/2" 1977' 1977 Verbal Plugging Permission granted on: Rotary Rig Cable Rig 1841 2 3/8" 2041 feet **Total Depth** Fresh water depths (ft) 490 875', 1200' Salt water depths (ft) Is coal being mined in area? 6', 148', 450', 600' Coal Depths (ft): See Altach OPEN FLOW DATA Pay Zone Depth (ft): for details Producing formation Big Injun, Big Lime MCF/d Oil: Initial open flow Bbl/d Gas: Initial open flow odor MCF/d Final open flow 459 Final open flow: Time of open flow between initial and final tests psig (surface pressure) after Hours 260 Static rock pressure Pay Zone Depth (ft): Second producing formation Oil: Initial open flow BbVd MCF/d Gas: Initial open flow MCF/d Final open flow Final open flow: Time of open flow between Initial and final tests psig (surface pressure) after Hours Static rock pressure NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1) DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2) THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: BLAZER ENERGY CORPORATION

By: Why of On

Received

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Office of Oil are Gas o of Environmental Protection

Charleston West Dag of Environm

EASTERN STATES OIL & GAS, INC. WR-35 COMPLETION REPORT - Attachment Well Treatment Summary

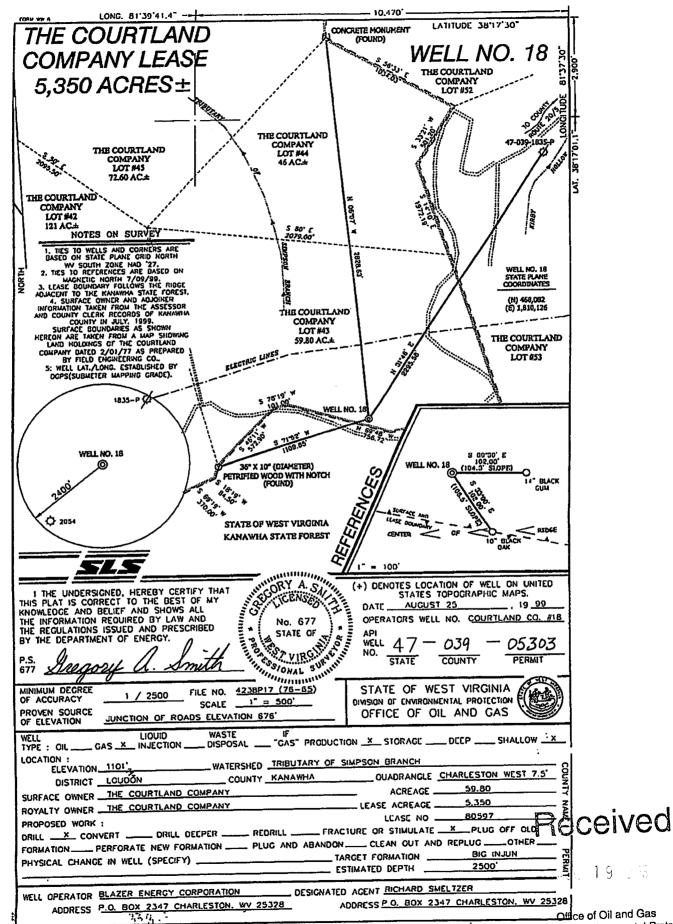
API# 47-039-05303 Well: Courtland 18

Date	12/07/99	12/07/99		
Type Frac Acid, N ₂ , Foam , Water	75 Q Foam	Acid w/N² Displacement		
Zone Treated	Big Injun	Big Lime		
# Perfs From - To:	21 1830' – 1840'	22 1759' – 1786'		
BD Pressure @ psi	2326	3348	Office of OT 2 Grs	
ATP psi	2150	2188	Pennicina	
Avg. Rate, B=B/M, S=SCF/M	20 B (foam) 8.8 B	12000 S	JAN 1 1 2000	
Max. Treat Press psi	2336	3348	Vavanilani	
ISIP psi	1342	1466	Fastenman's Designation	
Frac Gradlent	1.18	1.29		
10 min S-I Pressure	1255	1611		
Material Volume Sand-sks	459			
Water-bbl	155			
SCF N,	320,000	77,000		
Acid-gal	350 gal 15.4%	2000 gal 15.4%		
NOTES:				

TOP	воттом	FORMATION	REMARKS
0	0	Platform - GL	
. 6	7	Coal	
7	14	Sand	***
14	22	Shale	
22	148	Sand	
148	150	Coal	
150	165	Shale	
165	240	Sand	
240	295	Shale	
295	355	Sand	
355	450	Shale	
450	453	Coal	
453	600	Shale	Water @ 490'
600	603	Coal	
603	615	Shale	
615	635	Sand	
635	785	Shale	AND SHEET WITH
784	1495	Salt Sand	Waler @ 875', 1200'.
1578	1646	Little Lime	GT @ 1506', 1631 = NS
1646	1650	Pencil Cave	
1650	1812	Big Lime	GT @ 1661', 1724', 1756 = NS
1814	1844	Big Injun	
	2040	TD	GT @ 2040' = odor

Received

Office of Oil and Gas WV Dept. of Environmental Projection



Wy Dep). of Environmental Protection

WW-4-A	
Revised 6/07	

1)	Date:		August	11	5, 2013	
2)	Operator's Wel 215391 (Court					
3)	API Well No.:	47	039	-	05303	
		State	County		Permit	

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

(-)	Surface Owner(s) to be served:	/	5) (a) Coal	Operator:	
•	(a) Name	The Courtland Company		Name	None	
	Address	114 Monongalia Street		Address		
		Charleston, WV 25302				
	(b) Name	Kanawha State Forest	1	(b) Coal Ow	vner(s) with Declaration	
	Address	7500 Kanawha State Forest Drive		Name	The Courtland Company	V
	3 8/8/20 (3.5%)	Charleston, WV 25314			114 Monongalia Street	
				Address	Charleston, WV 25302	
	(c) Name			Name		
	Address			Address	-	
						-
3)	Inspector	Terry Urban		(c) Coal Les	ssee with Declaration	
,	Address	P.O. Box 1207		Name	None	
		Clendenin, WV 25045		Address		
	Telephone	304-549-5915				

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.

on the state of th	EQT Production Company
STATE OF WEST VIRGINIA BV:	Victoria J.Roark
MOTARY PUBLIC 118	Permitting Supervisor
Pamela Sylles EOT Production Address:	PO Box 280
PO Box 280	Bridgeport, WV 26330
Bridgeport, WV 26330 My Commission Expires Aug. 24, 2027 Elephone:	(304) 848-0076
Subscribed and sworn before me this	day of Aug , 2013
Vamle desse	Notary Public
My Commission Expires:	7-24-22

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 V	Vell Nu	ımber		٠.
215391 (Cour	land #	18)		
3) API Well No	.: 47	039 -	05303	

My Commission Expires Aug. 24, 2022

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

			A D.	0	Observation March 7 FL
Watershed:		of the Great Kana	Kanawha	_Quadrangle: _ District:	Charleston West 7.5' Loudon
Elevation:	1101'	County:	Kanawna		
Description of antic	cipated Pit Wast	e:		Formation Fluid	as
Do you anticipate t Will synthetic liner			er to complete the Is so, wh		ork? Yes No_X_ 30 ml
Proposed Disposa	I Method for Tre	ated Pit Wastes:			
X					
÷		und Injection - UIC	C Permit Number		
-		API Number) sposal Permit #.		10-	
-	Other: Ex	· Control of the cont			
Drilling medium an		The state of the s	vater, oil based, e	tc.	
		Synthetic, petrol			
Additives to be use	ed?				
			vameus affaita s	oto.	
Drill Cuttings dispo	sal method? Le				
	osal method? Le pit and plan to sol	idify what medium v	, remove offsite, e		
Drill Cuttings dispo	sal method? Le	idify what medium v			
Drill Cuttings dispo If left in Landfill I certify that I un issued on August	pisal method? Le pit and plan to sol or offsite name/pe nderstand and a 1, 2005, by the C	idify what medium warmit number? gree to the terms Office of Oil and G	will be used? Ceme and conditions of as of the West Vi	the GENERAL Warring of E	ATER POLLUTION PERMIT Environmental Protection. I erms or condition of the genera
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OPERATOR'S WELL NO.: 215391 (Courtland #18)

LEGEND

		Spring	Wet Spot	
Road		\bigcirc	-S-	
Planned Fence	– Drain Pipe w	vith size in inches	Water W	'ay
//_/		- 12	C+C-	-
Existing Fence	Stream		Cross Drai	n
Open Ditch		Filter Strip	Rock	
North	Building	Water well	Drill site	
N		w	\oplus	
Will the second	2	→	(=====================================	シ
posed Revegetation Trea	tment: Acres Disturbed:	1± Prevegetation	n pH	5.8
	tment: Acres Disturbed: Tons/acre or to correct to		on pH	5.8
_ime3	Tons/acre or to correct to	pH6.5		5.8) lbs minimum)
Lime 3	Tons/acre or to correct to	pH6.5		
_ime3	Tons/acre or to correct to equivalent	pH 6.5	lbs/acre (500	
Lime 3 Fertilizer (10-20-20) or Mulch 2 Area I	Tons/acre or to correct to equivalent Tons/acre or hydroseed.	pH 6.5		
Lime 3 Fertilizer (10-20-20) or Mulch 2 Area I Seed Type	Tons/acre or to correct to equivalent Tons/acre or hydroseed. SEED MIXTUR	pH 6.5 1/3 ton RES Seed Type	lbs/acre (500	lbs minimum)
Lime 3 Fertilizer (10-20-20) or Mulch 2 Area I Seed Type	Tons/acre or to correct to equivalent Tons/acre or hydroseed. SEED MIXTUR	pH 6.5 1/3 ton	lbs/acre (500) lbs minimum)
Lime3 Fertilizer (10-20-20) or Mulch2 Area I Seed Type KY-31 Alsike Clover	Tons/acre or to correct to equivalent Tons/acre or hydroseed. SEED MIXTUR Ibs/acre	pH 6.5 1/3 ton RES Seed Type Orchard Grass	lbs/acre (500	lbs minimum) Ibs/acre 15
Lime 3	Tons/acre or to correct to equivalent Tons/acre or hydroseed. SEED MIXTUR Ibs/acre 40 5	pH 6.5 1/3 ton RES Seed Type Orchard Grass	Ibs/acre (500	lbs minimum) lbs/acre 15 5
ime3 Fertilizer (10-20-20) or Mulch2 Area I Seed Type KY-31 Alsike Clover Annual Rye ATTACH:	Tons/acre or to correct to equivalent Tons/acre or hydroseed. SEED MIXTUE Ibs/acre 40 5 15	pH6.5 1/3 ton RES Seed Type Orchard Grass Alsike Clover	Ibs/acre (500	lbs minimum) lbs/acre 15 5
Fertilizer (10-20-20) or Mulch 2 Area I Seed Type KY-31 Alsike Clover Annual Rye ATTACH: Drawing(s) of road, location of in	Tons/acre or to correct to equivalent Tons/acre or hydroseed. SEED MIXTUE Ibs/acre 40 5 15 on, pit and proposed area fo volved 7.5' topographic sheet	pH 6.5 1/3 ton RES Seed Type Orchard Grass Alsike Clover r land application.	Area II	Ibs/acre 15 5
Fertilizer (10-20-20) or Mulch 2 Area I Seed Type KY-31 Alsike Clover Annual Rye ATTACH: Drawing(s) of road, location of in	Tons/acre or to correct to equivalent Tons/acre or hydroseed. SEED MIXTUE Ibs/acre 40 5 15 on, pit and proposed area fo	pH 6.5 1/3 ton RES Seed Type Orchard Grass Alsike Clover r land application.	Area II	lbs minimum) Ibs/acre

Topo Quad: Charleston West 7.5' Scale: 1 " = 2000' County: Kanawha Date: June 7, 2013 Loudon Project No: 52-14-00-07 District: Topo Courtland #18 47-039-05303 (WV 215391) Courtland #18 47-039-05303 Rattlesnake No 2 Store Hollow NAD 27, South Zone N: 468075.95 E: 1810134.01 **WGS 84** LAT: 38.283711 LON: -81.661320 Elev: 1101.26 PREPARED FOR: SURVEYING AND MAPPING SERVICES PERFORMED BY: ALLEGHENY SURVEYS, INC. **EQT Production Company** 1-800-482-8606 P.O. Box 280 P.O. BOX 438 Bridgeport, WV 26330 BIRCH RIVER, WV 26610 PH: (304) 649-8606 FAX: (304) 649-8608



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

RESPONSIBLE PARTY NAME:EQT Production Company COUNTY:Kanawha DISTRICT:Loudon QUADRANGLE:Charleston West 7.5' SURFACE OWNER:The Courtland Company ROYALTY OWNER:The Courtland Company, et al UTM GPS NORTHING:4237501 UTM GPS EASTING:442162 GPS ELEVATION: _335 m (1101 ft)
QUADRANGLE:Charleston West 7.5' SURFACE OWNER:The Courtland Company ROYALTY OWNER:The Courtland Company, et al UTM GPS NORTHING:4237501 UTM GPS EASTING:442162
QUADRANGLE:Charleston West 7.5' SURFACE OWNER:The Courtland Company ROYALTY OWNER:The Courtland Company, et al UTM GPS NORTHING:4237501 UTM GPS EASTING:442162 GPS ELEVATION: _335 m (1101 ft)
SURFACE OWNER:The Courtland Company ROYALTY OWNER:The Courtland Company, et al UTM GPS NORTHING:4237501 UTM GPS EASTING:442162
ROYALTY OWNER:The Courtland Company, et al UTM GPS NORTHING:4237501 UTM GPS EASTING:442162
UTM GPS NORTHING: 4237501 UTM GPS EASTING: 442162 GPS ELEVATION: 335 m (1101 ft)
UTM GPS EASTING: 442162 GPS ELEVATION: 335 m (1101 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 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
My Ohn 15 # 2180
Date Title AGG 19 (68)