

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

September 27, 2013

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-2102547, 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

1. .

Operator's Well No: WV 157931 (MARSHALL #2-W172

Farm Name: MARKS, WILLARD & REBECCA

API Well Number: 47-2102547

Permit Type: Plugging
Date Issued: 09/27/2013

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.

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

Work order approved by inspector

Date:

September 10, 2013

Operator's Well

Well No.

WV 157931(Marshall #2-W172)

API Well No .:

021 - 02547

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

4)	Well Type:	Oil	Gas	X	Liquid Injecti	n	Waste Dispo	sal:	
	If Gas, Prod	luction	_ x	Or Under	ground storag	e	Deep	Shallow	Χ
5)		Elevation:	950'	Watershe	ed: Little Kan	awha Rive	r		
	Location:		ille 63	County:		mer 21	Quadrangle:	Gilmer 7.5'	36
	District:								
3)	en e		duction C		7)		ed Agent: Rex C		
	Well Operat		essional F			Address:			
	Address:	Bridgep	ort, WV 26	330			Bridgeport, WV	26330	
3)					9)	Plugging	Contractor:		
	Oil & Gas B					Name:	HydroCarbon Well	Service	
		P.O. Box 157				Address:	PO BOX 995		
	Address: V	olga, WV 262	38						
10)			order for		of plugging thes.		Buckhannon, WV 2	26201	
(0)		der: The worl	order for				Buckhannon, WV 2	26201	
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Office of Oil & Gas

SEP 1 2 2013

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Plugging Prognosis - Madison District

Marshall 2 W 172 (157931) API # 47-021-02547

Gilmer Co, Burnsville, Quad

Prepared by Doug Fry 8/30/2013

Current Status; 13" @ 310' CMT w/ 100 sks 8 5/8"@ 881'. 4 1/2" @ 2923' CMT w/ 195 sks 2" tubing @ 2852' ELEU, 9571

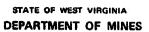
FW @ None Reported Coal @ 275'-280' Salt Sand estimated depth - 1594' Gas Shows @ None Reported Oil Shows @ 1782' - 1855' Maxton, 2851'-2870' Fifth Sand Completion: 2860'-2870 Fifth Sand, 1782'-1855' Maxton

- 1) Notify State Inspector Bryan Harris 304 553 6087 24 hrs prior to commencing operations.
- 2) TOOH w/2" tubing and check condition.
- 3) TIH w/2" tubing, Tallying pipe on the way in @ 2870', set 120' C1A cement plug @ 2870' to 2750'. (Fifth Sand Perfs).
- 4) TOOH w/ tubing @ 2750', Gel Hole @ 2750' to 2232'.
- 5) TOOH w/ tubing @ 2232', set 172' C1A cement plug @ 2232' to 2060'. (Injun Perfs)
- 6) TOOH w/ tubing @ 2060', Gel Hole @ 2060' to 1782'.
- 7) TOOH w/ 2" tubing, Free point 4 1/2" csg, Cut 4 1/2" csg @ free point, TOOH w/ 4 1/2 "csg unless casing is needed to stay in the hole to stabilize while setting any bottom hole plugs and then pull 4 ½" csg.
- 8) Set 100' C1A cement plug 50' In/Out of cut. Perf all, Coal, Gas, Oil & FW shows below 4 1/2" cut do not omit any plugs shown below.
- TIH w/ tubing @ 1782', set 288' C1A cement plug @ 1782' to 1494'. (Salt Sand Plug, Oil Show)
- 10) TOOH w/ tubing @ 1494', Gel Hole @ 1494' to 931'.
- 11) TOOH w/ tubing @ 931', set 100' C1A cement plug @ 931' to 831'. (8 5/8" csg pt)
- 12) TOOH w/ tubing @ 931', Gel Hole @ 831' to 360'.
- 13) TOOH w/ 2" tubing, Free point 8 5/8" csg, Cut 8 5/8" csg @ free point, TOOH w/ 8 5/8 "csg unless casing is needed to stay in the hole to stabilize while setting any bottom hole plugs and then pull 8 5/8" csg.
- 14) Set 100' C1A cement plug 50' In/Out of cut. Perf all, Coal, Gas, Oil & FW shows below 4 1/2" cut do not omit any plugs shown below.
- 15) TIHH w/ tubing @ 360', set 360' Cement Plug to Surface.
- 16) Top off as needed.
- 17) Set Monument to WV DEP Specifications
- 20) Reclaim Location & Roads to WV-DEP Specifications.

PRECORDS SHOW 85/8" WAS NOT LEFT IN WELL.

OK gram





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DEFT. OF 18

Oil and Gas Division

WELL RECORD 4

Quadrangle Burnsville

Rotary CableX Recycling	
Water Flood	Storage.
Disposal	

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up
Size		1	Cu. ft. (Sks.)
20-16 Cond.			
13-10"	310'	310'	100 sks.
9 5/8			1
8 5/8	881'		1
7			1
5 1/2			1
4 1/2		29231	195 sks.
3			120 363.
23/8 tubing		28521	†
Liners Used	·	-	
75. Dowell for P 2026-3150.	ractured	ifth San	
00 gal. 15% HC	60,000	20/40 s	and. BD-1800
	Inche		
Salt Wa	iter		Feet
֡	13-10" 9 5/8 8 5/8 7 5 1/2 4 1/2 3 2 3/8 tubing Liners Used Attach copy of ce 775. Dowell fi TP 2026-3150. 00 gal. 15% HC	13-10" 310 9 5/8 8 5/8 881 7 5 1/2 4 1/2 3 2 3/8 tubing Liners Used Attach copy of cementing reco (75. Dowell fractured for P 2026-3150. ISIP-1200 15% HCl. 60.000/8	13-10" 310 310 9 5/8 8 5/8 881 7 7 5 1/2 4 1/2 2923 3 2 3/8 tubing 2852 Liners Used 2852 Liners Used 2852 1 2 2 2 2 2 2 2 2

Formation Color Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water • Remarks
Red Rock	0	50	
Slate & R. Rock	50	275	
Coal	275	280	
Slate & RR	280	400	
Sand & Slate	400	450	
Red Rack	450	475	
Sand	475	560	1
Slate & Shells	560		
Sand & RR	: 625	625	
Slate & Shells	696	695	
Sand & Slate	755	755	
Slate & Shells	1375	1375	
Sand		1430	
Slate & Shells	1430	1485	
Sand	1485	1530	
Slate & Shells	1530 1570	1570	
Sand	1570	1675	
Slate & Shells	1676 1725	1725	
Sand & Slate	1 1900	1750	
Maxton Sand		1782	
Slate	1782	1855	Show of oil Show of gas
ine	1855	1938	show of our show of gas Office of Oil & Gas
Blue Monday	1938	1960	- was of Oil of Our
Big Lime	1960	2005	Office Of Circ
rig Line	2005	2117	2012

[•] Indicates Electric Log tops in the remarks section,

WV Department of Environment of

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APPROVED A CONTICE OF OIL & Gas

WV Department of Protection

Enviro09/27/2013

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Ger Sourge Ho.2. of	Resident River
Buch 15 15 15 15 15 15 15 15 15 15 15 15 15	
1512 Meridia 1512 Meridia	
T. M. Marshall Minimum Error of	Closure Lin 200'
	Elau Wall No. 1: 928
Fracture	shows all the information required by paragraph 6 of the rules the oil and gas section of the mining laws of West Virginia.
Abandonment Map No.	Signed: MSL-fort J/ Squares: N S E W
Company Waco Oil & Gas Co.	STATE OF WEST VIRGINIA DEPARTMENT OF MINES
Address Glenville West Va. Farm R.M. Marshall	OIL AND GAS DIVISION CHARLESTON
TractAcres 80 Lease No	
Well (Farm) No Serial No	WELL LOCATION MARD
Elevation (Spirit Level)	FILE NO. 6/L -25475 011 8 (23)
County Gilmer District Glanville	+ Denotes location of well on United States
inverger Usbfort Sp	
file No Drawing No	border lines as shown. Denotes one inch spaces of Department
Nate A-Lau ZR./975 Scale /"- 30p - 495"	and longitude lines being represented by border lines as shown. Denotes one inch spaces on border line of property of the pro

WW-4-A	
Revised 6/07	

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

1)	Surface Owner(s	s) to be served:	5) (a) Coa	l Operator:
	(a) Name	Willard & Rebecca Marks	Name	None
	Address	253 Starling Dr.	Address	
		Burnsville, WV 26335		
	(b) Name	Central Energy Corporation	(b) Coal O	wner(s) with Declaration
	Address	C/O Waco Oil & Gas Co. Inc.	Name	Willard & Rebecca Marks
		P.O. Box 297		253 Starling Dr.
		Glenville, WV 26351	Address	Burnsville, WV 26335
	(c) Name		Name	
	Address		Address	
			-	-
3)	Inspector	Bryan Harris	(c) Coal Le	essee with Declaration
	Address	P.O. Box 157	Name	None
		Volga, WV 26238	Address	
	Telephone	304-553-6087		
		_		

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.

Well Operator:	EQT Production Company
V OFFICIAL SEAL BYD	Victoria J.Roark
Notary Public, State Of West Virginia:	Permitting Supervisor
Notary Public, State Of West Virginits: NICHOLAS L. BUMGARDNER Address: Rt. 1 Box 4	PO Box 280
Liberty, WV 25124	Bridgeport, WV 26330
My Commission Expires June 27 Telephone:	(304) 848-0076
Subscribed and sworn before me this	day of SEPTEMBER, 2013
	Notary Public Notary Public
My Commission Expires:	018

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

Pageof				
2) Operator's We	ell Nu	mber		
WV 157931(Mar	shall	#2-W1	72)	
3) API Well No.:	47	021 -	02547	

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

Vatershed:	Little	Kanawha River		Quadrangle:	Gilmer 7.5'
Elevation:		County:	Gilmer	District:	Glenville
	The state of the s		Cilitio		dicriving
bescription of anti	cipated Pit Waste:	- X 	20 . TV 20 . T	Formation Fluids	
	using more than 5,0 be used in the pit?	00 bbls of water to Yes	o complete the Is so, wh	proposed well work? at ml.?	Yes No_X_ 30 ml
Proposed Disposa	I Method for Treated	d Pit Wastes:			
X	Land Applicat	tion			
		Injection - UIC Pe	ermit Number		
	Reuse (at AP	And the second s		-	
-	Offsite Dispo				
1	Other: Explai		C 950 2 5 95 55 5		
	nticipated for this we			c	
	ased, what type? Sy	mmetic, petroleun	i, etc.		
Additives to be us					
Will closed loop sy	stem be used?				
	osal method? Leave	e in pit. landfill, rei	move offsite.	tc.	
If left in	nit and plan to solidify	and the second second second			
	pit and plan to solidify	what medium will b			-
	pit and plan to solidify or offsite name/permit	what medium will b			
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OPERATOR'S WELL NO.: WV 157931(Marshall #2-W172)

LEGEND

Road		Spring	Wet Spot
		○	- 8-
Planned Fence	Drain Pip	pe with size in inches	Water Way
//_/		 12-	← → ←
Existing Fence X X X X	Str.	ream	Cross Drain
Open Ditch		cial Filter Strip	Rock
		XXXX	8666 8666
North	Building	Water well	Drill site
N		w	\oplus
Pit with Cut Walls	Pit with Co	ompacted Walls Area of La	nd Application of Pit Waste
(C)	سنر		
	~~~	<del></del>	
sed Revenetation Tres	etment: Acres Disturbed:	1+ Prevenetation of	1 50
	atment: Acres Disturbed:		f 5.8
	atment: Acres Disturbed: Tons/acre or to correct		d 5.8
me <u>3</u>	Tons/acre or to correct	t to pH6.5	lbs/acre (500 lbs minimum)
ne <u>3</u> rtilizer (10-20-20) or	Tons/acre or to correct	t to pH 6.5	
ne <u>3</u> rtilizer (10-20-20) or ulch <u>2</u>	Tons/acre or to correct	t to pH 6.5 1/3 ton	lbs/acre (500 lbs minimum)
ne <u>3</u> rtilizer (10-20-20) or ulch <u>2</u> Area I	Tons/acre or to correct equivalent Tons/acre or hydrosee SEED MIX	1/3 ton ed. TURES	lbs/acre (500 lbs minimum)  Area II
ne <u>3</u> rtilizer (10-20-20) or ulch <u>2</u> Area I	Tons/acre or to correct equivalent Tons/acre or hydrosee	t to pH 6.5 1/3 ton	lbs/acre (500 lbs minimum)
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rtilizer (10-20-20) or ulch 2  Area I  eed Type  7-31 sike Clover	Tons/acre or to correct equivalent Tons/acre or hydrosee SEED MIX  Ibs/acre  40 5	t to pH 6.5  1/3 ton ed.  TURES  Seed Type	lbs/acre (500 lbs minimum)  Area II  Ibs/acre
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rtilizer (10-20-20) or ulch2 Area I  eed Type  -31 sike Clover nual Rye  TACH: awing(s) of road, locatiotocopies section of in	Tons/acre or to correct equivalent Tons/acre or hydrosee SEED MIX  Ibs/acre  40 5 15  ion, pit and proposed are evolved 7.5' topographic serverses	t to pH 6.5  1/3 ton  ed.  TURES  Seed Type  Orchard Grass  Alsike Clover  ea for land application. sheet.	lbs/acre (500 lbs minimum)  Area II  Ibs/acre  15 5
rtilizer (10-20-20) or ulch2 Area I  eed Type -31 sike Clover nual Rye  TACH: awing(s) of road, locatiotocopies section of in	Tons/acre or to correct equivalent Tons/acre or hydrosee SEED MIX  Ibs/acre  40 5 15  15  ion, pit and proposed are	t to pH 6.5  1/3 ton  ed.  TURES  Seed Type  Orchard Grass  Alsike Clover  ea for land application. sheet.	lbs/acre (500 lbs minimum)  Area II  Ibs/acre  15 5
rtilizer (10-20-20) or alch2  Area I  eed Type  -31 sike Clover nual Rye  TACH: awing(s) of road, locatiotocopies section of in an approved by:	Tons/acre or to correct equivalent Tons/acre or hydrosee SEED MIX  Ibs/acre  40 5 15  ion, pit and proposed are evolved 7.5' topographic serverses.	t to pH 6.5  1/3 ton  ed.  TURES  Seed Type  Orchard Grass  Alsike Clover  ea for land application. sheet.	Area II  Ibs/acre  15  5  Office of Oil & Ga
rtilizer (10-20-20) or ulch2  Area I  eed Type  7-31 sike Clover nual Rye  TACH: awing(s) of road, locatiotocopies section of in an approved by:	Tons/acre or to correct equivalent Tons/acre or hydrosee SEED MIX  Ibs/acre  40 5 15  ion, pit and proposed are evolved 7.5' topographic serverses.	t to pH 6.5  1/3 ton  ed.  TURES  Seed Type  Orchard Grass Alsike Clover  ea for land application. sheet.	Area II  Ibs/acre  15  5  Office of Oil & Ga

Topo Quad: Gilmer 7.5' 1 " = 2000' Scale: Gilmer County: Date: August 22, 2013 District: Glenville Project No: 25-19-00-07 Topo 47-021-02547 WV 157931 (Marshall #2-W172) RUN Stouts Mills 2.843 47-021-02547 WV 1579310 RIVER Longsh Gilmer 7.5' Quadrangle Burnsville 7.5' Quadrangle Gas Well Darkenth Run Gas Well Strip Mine Gas Well Gas Well Substation GLENVILLE NAD 27, South Zone N: 687,739.45 Strip Mine E: 2,080,073.56 WGS 84 LAT: 38.888417 LONG: -80.718525 Bower ELEV: 950.36 Office of 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 BIRCH RIVER, WV 26610 PH: (304) 649-8606 FAX: (304) 649-8608 Bridgeport, WV 26330



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

API:47-021-02547	WV 157931 (Marshall #2-W172)
FARM NAME: Marshall	
RESPONSIBLE PARTY NAME:EQT Product	
COUNTY: Gilmer DIS	TRICT:Glenville
QUADRANGLE: Gilmer 7.5'	
SURFACE OWNER: Willard and Rebecca Mar	ks
ROYALTY OWNER: Douglas Morris, et al.	
UTM GPS NORTHING: 4304432	
UTM GPS EASTING: 524412 GPS I	ELEVATION: 289 m (950 ft)
The Responsible Party named above has chosen to so preparing a new well location plat for a plugging per above well. The Office of Oil and Gas will not accept the following requirements:  1. Datum: NAD 1983, Zone: 17 North, Coord height above mean sea level (MSL) – met 2. Accuracy to Datum – 3.05 meters 3. Data Collection Method:  Survey grade GPS: Post Processed Different Real-Time Differential Mapping Grade GPS _X_: Post Processed Different 4. Letter size copy of the topography map I the undersigned, hereby certify this data is correct to belief and shows all the information required by law prescribed by the Office of Oil and Gas.	mit or assigned API number on the of GPS coordinates that do not meet ardinate Units: meters, Altitude: ters.  Intial  ExercitedX  ial showing the well location.  To the best of my knowledge and
Signature / 8/27/13	Title SEP 1 2 2013
Date	Department (



#### POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: ____EQT PRODUCTION COMPANY .

LEASE NAME AND WELL No. ____Marshall WV 157931 (47-021-02547) .

#### POTENTIAL SAMPLE LOCATIONS

There appears to be no known water samples within the required 1000' of the Existing Well WV 157931.

BIRCH RIVER OFFICE P.O. Box 438 * 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 CALDWELL OFFICE 212 Cumberland Street Caldwell, OH 43724 phone: 740-305-5007 fax: 740-305-5126 P.O. Box 108 • 14 GChildress Road Alum Creek, WV 25003 phone: 304-756-2949

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Topo Quad:_	Gilmer 7.5'	Scale:	1 " = 2000'	
County:	Gilmer	Date:	August 22, 2013	
District:	Glenville	Project No	25-19-00-07	
Water	47-021-02547 V	VV 157931 (Ma	arshall #2-W172)	
Stouts Mills 7999	Stouts Mills OH Well 769 755	Out No Pote Road Type A7-02 WVV	1-02547 15793 loss well	Gas Well Gas
	A Mina Mina	Tau Bower Gas	N: 687,73 E: 2,080, WGS 84 LAT: 38.0	073.56 8884]7 30,718525
EGHEN O	SURVEYING AND MAPPING SER ALLEGHENY SU 1-800-482- P.O. BOX BIRCH RIVER, N PH: (304) 64- FAX: (304) 64-	JRVEYS, INC. 8606 438 WV 26610 9-8606	FREPARED FOR:  EQT Production C  P.O. Box 280  Bridgeport, WV 26	ntal Protection