

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: 47-2102595, 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

our sings with the

Chief

Operator's Well No: WV161281 WHITING #3A-W176(4

Farm Name: CENTRAL ENERGY CORPORATI

API Well Number: 47-2102595

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. <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.

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

September 10, 2013

Operator's Well Well No.

WV 161281(Whiting #3A-W176)

API Well No.: 47

021 - 02595

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

Well Typ	e: Oil Production	-	as _	X Lie	quid Injection				ste Dispo	Shallow —	X
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5)	Elevati		780'	_Watershed:			River				
Location	:	alenville	03	_County:	Gil	mer	21	Quadra	ngle:	Gilmer 7.5'	369
District:	FO	T Produc	tion Co	mnany	7)	Docio	nata	d Agent	Pov C	Pay	
6) Well Ope		T Produc Professi			- ')	Addre		d Agent:	Rex C fessiona		
Address		geport, V			-	Addit	.00.		ort, WV		
		3-1			- 0/	Divers					
B) Oil & Ga	s Bryan Har	rie			9)	Name		Contractor: HydroCarb	on Well 9	Service	
Name:	P.O. Box				-			PO BOX 9		Service	
	: Volga, W\				-	ridare	.00.	Buckhanno		26201	
* 7 MJ. A.											
3.				he manner of procedures.	plugging th	is wel	l is as	s follows:			
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See	Attachment	for detai	Is and	offic	E USE ONLY	W W				can commence	'n

SEP 1 2 2013

WV Department of Environmental Protection

Plugging Prognosis - Madison District

Whiting #3A W - 176 (161281) API # 47-021-02595

Gilmer Co, Burnsville, Quad ELEU, 803

Prepared by Doug Fry 8/30/2013

Current Status; 13 3/8" 163' CMT W/60 sks 8 5/8"@ 800' 4 ½" @ 2654' CMT w/ 250 sks

FW @ 95' Coal Shows None Reported

Salt Sand Estimated depth 1540'

Gas Shows @ 2600' – 2633' Fifth Sand

Oil Shows @ None Reported Completion: Perfs @ 2600'

- 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 @ 2600', set 200' C1A cement plug @ 2600' to 2400'. (Fifth Sand Perfs Perfs).
- 4) TOOH w/ tubing @ 2400', Gel Hole @ 2400' to 1800'.
- 5) 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 1/2" csg.
- 6) 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.
- 7) TIH w/ tubing @ 1800', set 100' C1A cement plug @ 1800' to 1700'. (Insurance Plug)
- 8) TOOH w/ tubing @ 1700', Gel Hole @ 1700' to 1540'.
- 9) TOOH w/ tubing @ 1540', set 100' C1A cement plug @ 1540' to 1440'. (Salt Sand)
- 10) TOOH w/ tubing @ 1440', Gel Hole @ 1440' to 850'.
- 11) TOOH w/ tubing @ 850', set 100' C1A cement plug @ 850' to 750'. (8 5/8" csg pt)
- 12) TOOH w/ tubing @ 750', Gel Hole @ 750' to 210'.
- 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 8 5/8" cut do not omit any plugs shown below.
- 15) TIH w/ tubing @ 210', set 210' Cement Plug to Surface.(FW show, 13 3/8" csg pt)
- 16) Top off as needed.
- 17) Set Monument to WV DEP Specifications
- 20) Reclaim Location & Roads to WV-DEP Specifications.

WELL RECURDS DO NOT SHOW
THAT 85/8" WAS LEFT IN WELL.

Office of Oil & Gas

SEP 1 2 2013

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WV Department of Environmental Protection



STATE OF WEST VIRGINIA DEPARTMENT OF MINES

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Oil and Gas Division

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WELL RECORD

QuadrangleBurnsville
Permit No.GIL-2595

Rotary Oil Gas.

Cable X Gas.

Recycling Comb. X

Water Flood Storage.

Tetalit 140.				Disposal	Storage
Company Waco Oil & Gas Co., Inc					(Kind)
D	26351	Casing and	Used in	Left	Company Citt
		Tubing	Drilling	in Well	Cunent fill up Cu. ft. (Sks.)
Location (waters) Little Kanawha Ri	Acres 242				Cu. 11. (SKS.)
2 A		Size			
Well No. 3-4 District Glenville County G	Elev. 003	20-16	ı		
The surface of Association County G	ilmer	Cond.			
The surface of tract is owned in fee by	·	13-10"	163'	163'	60 sks.
Address Gilmer, W. Va.		9 5/8			
		8 5/8	800'		1
Mineral rights are owned by A. E. Whit Address Glenville, WV	ing, et al	7]
Dellies Community 11/7/75	26351	5 1/2			
Drilling Commenced 11/7/75		4 1/2		2654	250 sks.
Drilling Completed 12/22/75		3			
Initial open flow cu. ft	bbls.	2			
Final production 200,000 cu. ft. per day	25bbls.	Liners Used			2
Well openhrs. before test.	RP.				
Well treatment details:		Attach copy of	cementing reco	ord.	
Allegheny Nuclear Surveys perfo	prated 12/30	/76	_		nd 12/20/75
	sand. BD-	2100 pstg.	TP-1500 to	2100 pede	10 12/30//5
1200 psig.			11 1000 60	2100 ps 10	· 121h-
Todatelig Sand		Salt Dep	th 2600 - 2	533	Feet
Formation Color Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or	Water •	Remarks
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late, & Red Rock	110	110 250	1		
and & Slate	250	370	1		
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and	795	960	Ì		
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WV Department of Environment of 69/2/7/2019ction

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New Location	and regulations of th	e oil and gas section of	the mining laws o	aph 6 of the rules 4 West Virginia,
Drill Deeper	•	Signed		
	Map No.	Squaree: N	S B	W
Company LL Morris, dbo W	ACO D.P.G.Co.	STATE O	F WEST VIRGI	AIP
Address Glenville, We	st Va.	OIL ANI	TMENT OF MINES D GAS DIVISIO	N
Farm_A.E.Whiting,		ત્ર, ch	ARLESTON	
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Well (Farm) No. 3-A Seri	al No.		CATION	MAP
Elevation (Spirit Level) Quadrangle Burnsville		FILE NO.	GI <u>L-2595</u>	EIVED
County Gilmer District			Office of	Oile
Surveyor Engineer		+ Denotes location Topographic Maps		
Surveyor's Registration No. 1227		and longitude line border lines es she	ter being Crimine	ented by
File No Drawing	No.			. .
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WW-4-A	
Revised 6/07	

County

Permit

State

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	Central Energy Corporation	V	Name	None
	Address	C/O Waco Oil & Gas Co. Inc.		Address	
		P.O. Box 297			
		Glenville, WV 26351			
	(b) Name			(b) Coal Own	ner(s) with Declaration
	Address			Name	Central Energy Corporation
					C/O Waco Oil & Gas Co. Inc.
				Address	P.O. Box 297
					Glenville, WV 26351
	(c) Name			Name	
	Address			Address	(t)
6)	Inspector	Bryan Harris		(c) Coal Les	see 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
OFFICIAL SEAL BY	Victoria J.Roark
Notary Public, State Of West Virgin	Permitting Supervisor
NICHOLAS L. BUMGARDNER Address:	PO Box 280
Rt. 1 Box 4	Bridgeport, WV 26330
Liberty, WV 25124 My Commission Expires June 27, 2019 ephone:	(304) 848-0076
Subscribed and sworn before me this	day of SEPTEMBER, 2013 Notary Public NECETVED
Subscribed and sworn before me this 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.

Environmental Protection

WW-9 Revised 2/03

Page of			
2) Operator's We	ll Nu	mber	
WV 161281(Whi	ting	#3A-W1	76)
3) API Well No.:	47	021 -	02595

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:		LOCAL AND DOCUMENT	IY	OP II	
		tle Kanawha Rive		Quadrangle:	Gilmer 7.5'
levation:	780'	County:	Gilmer	District:	Glenville
escription of anti-	cipated Pit Wast			Formation Flui	ds
o you anticipate of the synthetic liner	A The season of the second district			he proposed well wo what ml.?	ork? Yes No_X_ 30 ml
roposed Disposa	Method for Tre	ated Pit Wastes:			
X					
-	Undergro	und Injection - UIC	Permit Number	er	
		API Number)			
\ <u>-</u>		sposal Permit #.			
	Other: Ex	T 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		4.1	
		well? Air, freshw		etc.	
		Synthetic, petrole	eum, etc.		
additives to be use	ea?				
Vill closed loop sy	estem he used?				
그런 하는 사람이 가는 내는 그리고 없었다.		eave in pit, landfill,	remove offsite	etc	*
				nent, Lime, sawdust	<u>-</u>
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OPERATOR'S WELL NO.: WV 161281(Whiting #3A-W176)

LEGEND

Property Boundary				
		Spring	Wet Spot	
Road			4	
Planned Fence	Drain Pipe with	size in inches	Water Way	
//_/		12	\longleftrightarrow	
Existing Fence	Stream	/ * =	Cross Drain	
Open Ditch	Artificial Fill		Rock 양양양	
North	Building	Water well	Drill site	
N		w	\oplus	
Pit with Cut Walls	Pit with Compac	eted Walls Area o	f Land Application of F	Pit Waste
ime3	atment: Acres Disturbed:	6.5		
ime 3 ertilizer (10-20-20) o	Tons/acre or to correct to p	6.5	n pH 5.8	
ime 3 ertilizer (10-20-20) o	Tons/acre or to correct to phrequivalent	1/3 ton	•	
ime <u>3</u> ertilizer (10-20-20) o	Tons/acre or to correct to phrequent Tons/acre or hydroseed.	1/3 ton	•	
me3 ertilizer (10-20-20) o ulch2 Area I	Tons/acre or to correct to phrequent Tons/acre or hydroseed.	1/3 ton	lbs/acre (500 lbs n	
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me 3 ertilizer (10-20-20) of ulch 2 Area I Geed Type	Tons/acre or to correct to phrequivalent Tons/acre or hydroseed. SEED MIXTURE	6.5 1/3 ton S Seed Type	lbs/acre (500 lbs n	ninimum) bs/acre
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Topo Quad:_	Gilmer 7.5'	Sca	ıle:	1 " = 2000'	
County:	Gilmer	Dat	e:	August 20, 2013	3
District:	Glenville	Pro	ject No:	25-19-00-07	
ter se	47-021-02595	WV 161281	(Whiting	#3A-W176)	Торо
L. C.	Stouts Mills	on rad Cem	71-02595	Well Well Well Solution OII Well Solution OII OII OII OII OII OII OII O	Gas Welle Gas Welle Long Man
Stouts Mills Ch. Run	Gilmer 7.5' Quadrangle Burnsville 7.5' Quadrangle Gas Weil V I L E	Gas Well Copen Run	Strip Mine Gas Well	3/15/1	Gas Well
G L E N	Gals Wells Gals Wells Gals Wells	Mine Bi	Strip Mine	N: 684 E: 2,07 WGS 8 LAT: 3	7, South Zone 902.57 79,942.21 34 8.880629 80.719017 779.72
EGHEN	ALLEGHENY 1-800-4 P.O. E BIRCH RIVI PH: (304	S SERVICES PERFORMED BY: SURVEYS, II 482-8606 30X 438 ER, WV 26610 1) 649-8606 4) 649-8608	NC. PREPARE	QT Production P.O. Box 2 Bridgeport, WV	80

WW-7 8-30-06



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

API: 47-021-02595 WELL NO.: WV 161281 (Whiting #3A-W176)
FARM NAME: Whiting
RESPONSIBLE PARTY NAME:EQT Production Company
COUNTY: Gilmer DISTRICT: Glenville
QUADRANGLE: Gilmer 7.5
SURFACE OWNER: Central Energy Corporation
ROYALTY OWNER:Cayenne Investment LTD, et al.
UTM GPS NORTHING:4303568
UTM GPS EASTING: 524372 GPS ELEVATION: 237 m (780 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
Date WV Department of O9/27/2013 Ction
09/27/2013



POTENTIAL WATER SAMPLE DATA SHEET

The initial mapping review of the area surrounding the proposed well site revealed the below

listed surface owner(s) that were potentially utilizing groundwater (potable) for Human

Consumption or other purposes within 1000' of the existing well site. The following landowners will be notified of the opportunity to request a water sample.
*Please note that the following information is subject to change upon field inspection.
POTENTIAL SAMPLE LOCATIONS
Site: 1 Spacing: 990' +/- Owner: National Timber Partners WV 3 LLC
Address: 471 B&O Overpass Road, Hedgesville, WV 25427 Phone No
Comments:
Site: 2 Spacing: 990' +/- Owner: CSX Corporation
Address: 500 Water Street, Jacksonville, FL 32202 Phone No. 904.359.3200
Comments:
Site: 3 Spacing: 900' +/- Owner: James and Lois Waldeck/Michael Kelley
Address: 138 Darnell Drive, Glenville, WV 26351 Phone No. 304.853.2768
Comments:

CLIENT: EQT PRODUCTION COMPANY

LEASE NAME AND WELL No. Whiting WV 161281 (47-021-02595)

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

Alum Creek, WV 25003 phon \$309-756 2999 13 fax: 304-756-2948

Topo Quad:	Gilmer 7.5'	Scale:	1 " = 2000'
County:	Gilmer	Date:	August 20, 2013
District:	Glenville	Project No:	25-19-00-07
Water	47-021-02595 WV 161	281 (Whiting	g #3A-W176)
-	BM SCIDING PUN	WALL OF	Well
E. T.	Stouts Mills Well	(3) Potential	water wells. within 1000'
Se ANO	ROAD Well	796	
	768		
MESTY!	KANA		On State Control of the Control of t
	Officer (Conrad Cem		
The same		ne No Comment	Gas Gib
2011		47-021-0259 WV 16128	5 Gos We
The Think	Site 2	ER 8M 756	Long
0 1302	Site 1 Gilmer	Site 3	
	Gilmer 7.5' Quadrangle	8 0 0 0 A	
1000	Burnsville 7:5 Quadrangle	s Wells .	
Stouts Wills		pen Run	Gas Well
Quekcamp Run		Strip Mine Gas We	
Durk	Gas Weil		Substation
GLEN	VILLE		1.177
23)((3	CILLER CO	Strip Mil	NAD 27, South Zone N: 684902.57
3632		of the last	E: 2,079,942.21 WGS 84
5/10	Gas Wells Strip Mine	Bower	LAT: 38.880629 LONG: -80.719017
721.8	Gas Wells	Gas	ELEVE 779.72
LEGHE	SURVEYING AND MAPPING SERVICES PERFORME ALLEGHENY SURVEY	D BY:	EQT Production Company
0 0 0	1-800-482-8606 P.O. BOX 438 BIRCH RIVER, WV 26610	P.O. Box 280 Bridgeport, WV 26330	
VEYS	PH: (304) 649-8606		Department of