

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 13, 2013

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-3903187, 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: (WV 001380) J.A. OSBORNE 6

Farm Name: WOODS, TRACIE L.

API Well Number: 47-3903187 Permit Type: Plugging

Date Issued: 08/13/2013



Form WW-4 (B) Permit Copy (Rev 2/01) \$200.00 \$200.00 (001440 { 001380)

Date:		Jul	y 2	5, 2013	
Operator's Well					
Well No.	WVO	01380	J.A	. Osborne #6	
API Well No.:	47	39		03187	

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

4)		API	PLICATIO	N FOR A	PERM	NIT TO	PLUG A	ND ABAND	OON			
.,	Well Type:	Oil	Gas	X	Liqui	id Injecti	on	Wa	ste Dispo	sal:		
	If Gas, Prod	duction	X	Or Unde	ergroun	d storag	ge	Deep		Shallow	Х	
5)		Elevation:	1191'	_Watersh	ed: L							-06
	Location: _ District:	Big Sa	andy O	_County:		Kar	awha 🤧	Quadra	angle:	Clendenin	7.5'	74
6)	Well Operat	tor 120 Pro	oduction Co	lace		7)	Designat Address:		ofessiona	l Place		
_,	Address:	Bridgep	ort, WV 26	330	_		4.000		port, WV	26330	_	-
8)	Oil & Gas T					9)	Name:	Contractor:	oon Well S	Service		
		P.O. Box 1207 Clendenin, W\			_		Address	PO BOX 9		6201		_
-				0	FFICE L	JSE ONLY	/					—
	Notification	must be giver	n to the dist					pefore pe		d & Gas can commend	e.	
	Work order	approved by	nspector						UG -5	2013		

PLUGGING PROGNOSIS

Osborne, J.A. #6 (001380)

Kanawha County, West Virginia API # 47-039-03187 Clendenin Quad

BY: Craig Duckworth

DATE: 2/05/13

CURRENT STATUS:

10" csg @ 36' @ 693' 8 1/4" csg

6 5/8" csg @ 1825' Packer @ 1825'

2" tbg @ 2231'

TD @ 2231'

Fresh Water @ 110' Salt Water @ None reported

Salt Sand @ 1125' Coal @ 440'-446'

Gas shows @ Salt Sand (1190'); Big Lime (1960'); Injun Sand (2013'); Weir (2152')

Oil Shows @ Slate (1210') Weir (2190')

Stimulation: 2013'- 2025' 40Qts.

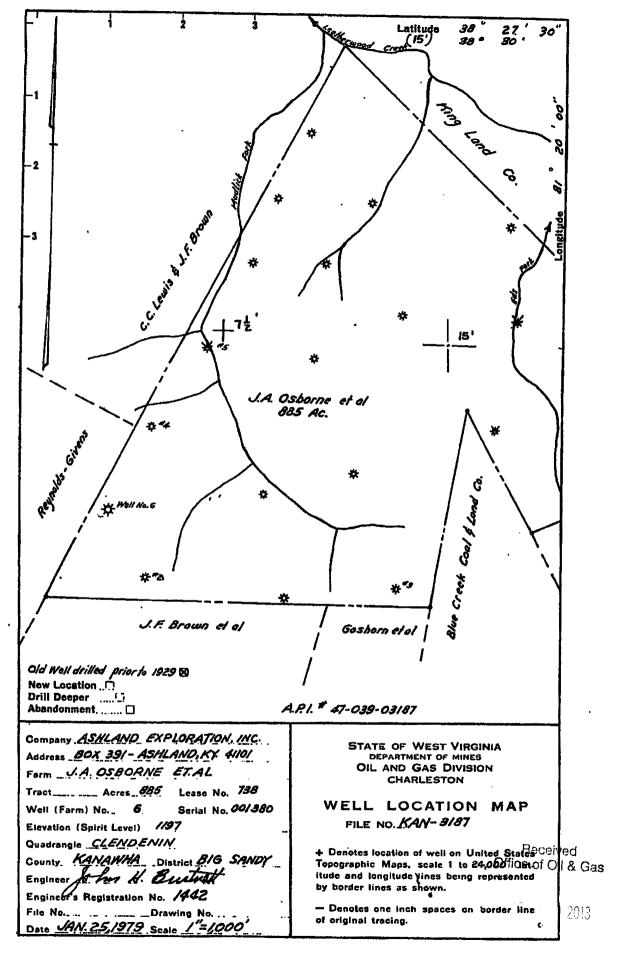
- Notify State Inspector, Terry Urban 304-549-5915, and 24 hrs prior to commencing operations. 1.
- 2. Attemp to pull2" tbg / if tbg will not pull Shoot off @ 1825'. If tbg pulls ,TOOH w/ 2" tbg and check condition.
- TIH w/ tbg @ 2152'; Set 242' C1A Cement Plug @ 2152' to 1910' (Weir 2152';Injun Sand 3. 2013'; Big Lime 1960')
- TOOH w/ tbg and attempt to pull 6 5/8"; Freepoint and cut/shoot @ freepoint, Set 100' C1A 4. Cement Plug @ 1850' to 1750' (6 5/8" csg)
- Set a 100' C1A Cement Plug 50' In/Out of cut. Perf all FW, Coal, Oil and Gas shows below 6 5/8" 5. cut Do not omit any plugs 1750
- 6. TIH w/ tbg @ 1750'; Gel hole @ 1910' to 1240'
- TOOH w/ tbg @ 1240'; Set 215' C1A Cement Plug @ 1240' to 1025' (Salt Sand 1125' & Gas 7. Show 1190')
- TOOH w/ tbg @ 1025'; gel hole @ 1025' to 743'. 8.
- 9. TOOH w/tbg and attempt to pull 8 1/4", Freepoint and cut/shoot @ freepoint
- TIH w/ tbg @ 743'; Set 100' C1A Cement Plug @ 743' to 643' (8 1/4" esg) 10.
- Set a 100' C1A Cement Plug 50' In/Out of cut. Perf all FW, Coal, Oil and Gas shows below 8 1/4" 11. cut Do not omit any plugs
- 12. TIH w/ tbg @ 643'; gel hole @ 643' to 496'
- TOOH w/ tbg @ 496; Set 106' C1A Cement Plug @ 496' to 390' (Coal 440'-446') 13.
- 14. TIH w/ tbg @ 390'; gel hole @ 390' to 200'
- Office of Oil & Gas TOOH w/ tbg @ 200'; Set 200' C1A Cement Plug @ 200' to 0 (Surface). 15.
- Top off as needed 16.
- 17. Set Monument to WV-DEP Specifications
- Reclaim Location & Road to WV-DEP Specifications 18.

LOG OF UNITED CARBON COMPANY WELL NUMBER _____138

Title and Number of Well Osborne No. 6 Former Owner

CA	SING REC	ORD:	Kanawha (omty	, ₩.	Va.					
Size Pe For	Weight	Weight Threads Per Per. Foot Inch	Manufacturer's Name	Where Landed	CEMENTED		SET			T	
	Foot				Yes	No	Sacks	From	To	BAILED DRY	Stood Hours
10				36						•	
10 81			•	693							
-6-5/	/ a			1825							
<u>2n T</u>	ibing			2231							
	1	1	1								-

FE	ET		100	ET	
From	To	FORMATION	From	To	FORMATION
0	35 .	Soil Soil	SHIDDLE ENG		ORD BY MR. NELSON
35	60	Sand	DOFFLER	MIARI REC	OUD BI WH. NELWON
60	65	Slate	1821	1985	Big Lime
85	220	Sand - 1 Balier water		1852	Steel Line
220	240	at 110		1960	Gas Line
240	250 350 .	Sitate . Sand	1995 ·	2010	Slate
350	400	Slate & Shells	2010	2065	Injun
400	440	Sand	2065 .	2013	Gas
440	446	Coal	2000 ·	2112 2121	Red Sand
446	500 -	Sand		2152	Steel Line Gas
500	520	Slate	2190	2195	011
520 610	610	Sand		2231	Total Depth
650	650	Slate	Shot top	2013 -	2025 mi+b 40 0+a (3)
710	710	Sand Slate	Anchor d	f. Shot 29	
720	770	Send	Shot oth	er bridge	in casing 2052
770	1075	Slete & Shell	THEKET #	as set 5	5/8" Casing
1075	1125	Lime was shot and con Salt sand-Ges in Salt	· Well and a		
11.26	1550	Salt sand-Gas in Salt	May 13th	1000 I	asing collapsed .
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1550	1555 _% -	Slate-011 showing 121			
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1655	1655 1683	Red Hock-Hole Tull 138	0	·	
1663	1675	Lime Red Rock			
1675	1739		April 192	3	
1759	1749	Maxon Sand	pressure	10# piak u	p in 5 Min. 120# 🚉
1749	1760				
1760	1786	Little Lime	June 192	h bick al	in 5 Min. 40#
1786	1805				
L805 L813	1815				k up in 5 Mjn. 43#
	1821 1995	Pancil Cave	ine press	re 8# nid	k up in 5 Min. 40#
		Big Lime - Ges 1960			r chitte wir. 40%
		Slate Sand - Gas 2013	1	ł	
2085		Red Sand	i	ſ	
ins .	2221	White Sand (Wine)	j	.]	
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terted Ma	ch 20th	1922			Office of Oil & Gas.
	WAY TOTH I		87 700		
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	- UGB	ry in 2 Inch	ma		Activities the second s
		TO DESCRIPTION OF THE PROPERTY	PTD8 4/110	Work	95,000



WW-4-A Revised 6/07

1) Date: July 25, 2013 2) Operator's Well Number WV 001380 J.A. Osborne #6 3) API Well No .: 47 03187 State County Permit Check# 15783 \$ 200,00 (001440 \$ 00138) 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: Name Tracie L. Wood Name (a) None 1365 Donna Marie Dr. Address Address Melbourne, FL 32904 See Attached (b) Coal Owner(s) with Declaration (b) Name Name Dr. R.D. Karr Address U/W R.J. Karr Dr. Robert D. Karr Trustee Address P.O. Box 883 Mt. Holley, NC 28120-0883 (c) Name Name See Attached Address Address Terry Urban 6) Inspector (c) Coal Lessee with Declaration P.O. Box 1207 Address Name None Clendenin, WV 25045 Address Telephone

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.

SEAL Well Operator:	EQT Production Company Victoria J.Roark				
·es Its	Permitting Supervisor				
have 80 Address:	PO Box 280				
Bridge 26330 My Commission 14, 20, 20, 202	Bridgeport, WV 26330				
my commission 1, 1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,	(304) 848-0076				
Subscribed and sworn before me this	day of August , 2011 Be of Oil & Gas				
My Commission Expires:	8-24-33				

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.

SURFACE OWNER WAIVER

Operator's Well Number: WV 001380 J.A. Osborne #6

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW 4-A

The well operator named on page WW4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT. WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:

Chief, Office of Oil and Gas
Division of Environmental Protection
601 57th Street, SE
Charleston, WV 25304
(304) 926-0450

Time Limits and methods for filing comments. the date the operator files for this Application. You have comments. Comments must be filed in person or received above. You may call the Chief's office to be sure of the dat delivery time or to arrange special expedited handling. If you have signed a "voluntary statement of no objection" to the permit may be isued at any time.	FIVE (5) DAYS in the mail by the Chief's office be. Check with your postmaster to have been contacted by the w	o ensure adequate rell operator and you
•	nts must include your name, add	lress and telephone number.
the well operator's name and well number and the approximate the application. You may add other documents, such as skelling the second	nate location of the proposed we	Il site including district and county from
hire to test your water to establish water quality prior to	ne safety of persons. equate or effective; ources; ources or supplies; of a previous permit or a substar abate or seek review of the viola copy of the order denying the p e maintains a list of water testing and after drilling. Contact the Content of the content	ntial violation of one or more of the tion". permit, you should request a copy laboratories which you can hief to obtain a copy. ed copies of a Notice and Application
FOR EXECUTION BY A NATURAL PERSON	FOR EXECUTION	BY A CORPORATION, ETC.
Date Signature	Name By Its	Received Office of Oil & Gas

Signature

Date

Operator's Well Number: WV 001380 J.A. Osborne #6

INSTRUCTIONS TO COAL OPERATOR, OWNER, OR LESSEE

The well operator named on the attached page WW-4(B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inpsector is notified. Which date shall not be less than five days after the dat on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of OII & Gas

This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, Article 6, Chapter 22 of the Code and given in detail on the obverse side of this application

Note: If you wish this well to be plugged according to 22-6-24(d) then as per Regulation 35CSR4-13.9 you must complete and return to this office on form OB-16 "Request by Coal Operator, Owner or Lessee for plugging" prior to the issuance of this plugging permit.

WAIVER

The undersigned operator well location has examined this proobjection to the work proposed to be complied with all applicable require regulations.	pposed plugging work order be done at this location, pro	The undersigned has not no vided the well operator has
Date:	By:	

Received
Office of Oil & Gas

10.3

WW-9 Revised 2/03

Pageo	
2) Operator's	Well Number
WV 001380 J	.A. Osborne #6
3) API Well N	0.: 47 39 - 03187

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: Watershed:	EQT PRODUCTION (Quadrangle:	Clendenin 7.5'
Elevation:	1191' Coun		District:	Big Sandy
Description of antic			Formation Fluids	
		ule of water to complete the		Voc. No.V
Will synthetic liner	이 이 경기에 그렇게 이번 경기에 되었다.	ols of water to complete the Yes Is so, w	hat ml.?	Yes No_X_ 30 ml
	Method for Treated Pit \		-	
X		vasies.		
^		tion - UIC Permit Numbe	r	
D	Reuse (at API Nun		· · · · · · · · · · · · · · · · · · ·	
-	Offsite Disposal Pe		·	
4	Other: Explain			
Drilling medium an		ir, freshwater, oil based,	etc.	
	sed, what type? Syntheti		· ·	
Additives to be use				
Will closed loop sy	stem be used?			
Drill Cuttings dispo	sal method? Leave in pi	t, landfill, remove offsite,	etc.	
If left in	pit and plan to solidify what	medium will be used? Cem	nent, Lime, sawdust	
Landfill	or offsite name/permit numb	er?		
issued on August 1 understand that the permit and/or other I certify under pena application form ar for obtaining the in	I, 2005, by the Office of C e provisions of the permit r applicable law or regula alty of law that I have per nd all attachments thereto formation, I believe that t	Dil and Gas of the West Name is are enforceable by law. Ition can lead to enforcent sonally examined and and and that, based on my in	Virginia Division of Envi Violations of any terms nent action. In familiar with the inforr nquiry of those individu curate and complete.	s or condition of the general mation submitted on this als immediately responsible am aware that there are
Company Offi	cial Signature	Mu	A/h	
Company Offi	cial (Typed or Printed)	Victoria Roark		
Company Offi	cial Title	Permitting Superviso	r-WV	Office of Old To
Subscribed and	sworn before me this	day of	August	,, 2013
1	//			AIM SEE MAR
My Commission	n Expires	8-24-22	Notary Pu	OFFICIAL
my Commission		001.00		STATE OF WEST

OPERATOR'S WELL NO.: WV 001380 J.A. Osborne #6

LEGEND

7-31 40 Orchard Grass Sike Clover 5 Alsike Clover TACH: awing(s) of road, location, pit and proposed area for land application. otocopies section of involved 7.5' topographic sheet. an approved by: PRECEIVED Receive Office of Oil Office of Oil Office of Oil	
Planned Fence Drain Pipe with size in inches Water Way Existing Fence Stream Cross Drain Existing Fence C	
Existing Fence XXXX Open Ditch Artificial Filter Strip North Building Pit with Cut Walls Pit with Compacted Walls Area of Land Application of Fence Seed Revegetation Treatment: Acres Disturbed: 1± Prevegetation pH 5.6 Thilizer (10-20-20) or equivalent 2 Tons/acre or to correct to pH 6.5 Area I SEED MIXTURES Area I Area II Seed Type Ibs/acre Seed Type Illiand Orchard Grass Alsike Clover Inual Rye 15 TACH: Inving(s) of road, location, pit and proposed area for land application. obtocopies section of involved 7.5' topographic sheet. In approved by: Date: Date: Date: Date: Date:	
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Pit with Cut Walls Pit with Compacted Walls Area of Land Application of F and Revegetation Treatment: Acres Disturbed: 1± Prevegetation pH 5.8 Area 1	
sed Revegetation Treatment: Acres Disturbed: 1± Prevegetation pH 5.8 ne 3 Tons/acre or to correct to pH 6.5 ritilizer (10-20-20) or equivalent 1/3 ton Ibs/acre (500 lbs not plich 2 Tons/acre or hydroseed. SEED MIXTURES Area I Area II sed Type Ibs/acre Seed Type III alike Clover 5 Alsike Clover nual Rye 15 TACH: swing(s) of road, location, pit and proposed area for land application. proceedings section of involved 7.5' topographic sheet. n approved by: Receive Office of Oil mments: Date: Date:	
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awing(s) of road, location, pit and proposed area for land application. otocopies section of involved 7.5' topographic sheet. Receive Office of Oil mments: Date:	
office of Oil mments: Date:	ed
e: Date:	
	2010
Id Reviewed? Yes No	

Topo Quad: Clendenin 7.5' Scale: 1 " = 2000' County: Kanawha Date: May 24, 2013 Big Sandy 52-14-00-07 District: Project No: Topo 47-039-03187 WV 001380 J.A. Osborne #6 \$675 Gas Well × 679 Ges Gas Catherwood Well 757 Eds Fork Sch J.A. Osborne #6 Gas 47-039-03187 JEEP NAD 27 South Zone N: 522162.81 E: 1895108.22 **WGS 84** LAT: 38.433532 LON: -81.366022 eElevid 1191.40 PREPARED FOR: SURVEYING AND MAPPING SERVICES PERFORMED BY: ALLEGHENY SURVEYS, INC. **EQT Production Company** 1-800-482-8606 P.O. BOX 438 BIRCH RIVER, WV 26610 P.O. Box 280 Bridgeport, WV 26330 PH: (304) 649-8606 FAX: (304) 649-8608

WW-7 8-30-06



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

API:	47-039-	03187	WELL NO	.: <u>WV 00</u>	01380 (J.A.	Osborne	e #6)
FARM NA	ME: Osbor	ne					
RESPONS	IBLE PARTY	Y NAME: _E	QT Production C	Company	<u>Y_</u>		
COUNTY:	Kanawha		DISTRIC	Г:В	ig Sandy	_	
QUADRA	NGLE: _Cle	ndenin 7.5'					
SURFACE	OWNER: _	Tracie L. Woo	<u>ds</u>				
ROYALTY	OWNER: _	Dr. R. D. Kar	r, et al				
UTM GPS	NORTHING	: 4253981					
UTM GPS	EASTING:_	468054	GPS ELEVA	ATION:	<u>362 m (1</u>	191 ft)	
preparing a above well. the following 1. In the understands belief and stopperscribed by the same and the same and the understands are same as the same and the understands are same as the same are same as the same are same as the same are same ar	new well loca The Office of ig requirement Datum: NAD height above in Accuracy to D Data Collection grade GPS g Grade GPS Letter size cop igned, hereby hows all the in	tion plat for a propertion plat for a propertion of the topog of the topog of Oil and Gas.	sed Differential Differential cessed Different ne Differential graphy map sho a is correct to the ired by law and	or assign PS coord ate Units tial _X wing the best of the regulary	e well locations issue	ion. dge and Receive	the neet
Doto Doto	-8-13		i itie		AUI		2013
Date							

Topo Quad: Clendenin 7.5' 1 " = 2000' Scale: Kanawha County: Date: May 24, 2013 Big Sandy District: Project No: 52-14-00-07 Water Торо 47-039-03187 WV 001380 J.A. Osborne #6 \$675 Weir 0 Potential water wells within 1000' J.A. Osborne #6 Gas. 47-039-03187 NAD 27 South Zone O | Wests N: 522162.81 E: 1895108.22 **WGS 84** O Well LAT: 38.433532 LON: -81.366022 Elev: 1191.40 PREPARED FOR Office of Oil & Gas SURVEYING AND MAPPING SERVICES PERFORMED BY: **EQT Production Company** 1-800-482-8606 P.O. BOX 438 BIRCH RIVER, WV 26610 P.O. Box 280 Bridgeport, WV 26330 PH: (304) 649-8606 FAX: (304) 649-8608

08/16/2013