

#### 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 28, 2015

#### WELL WORK PLUGGING PERMIT

#### Plugging

This permit, API Well Number: 47-3902060, 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: 47

Farm Name: EASTERN G & F

API Well Number: 47-3902060

Permit Type: Plugging

Date Issued: 01/28/2015

#### 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)

January 14, 2015 Date: Operator's Well

Well No.

042300 (Eastern Gas & Fuel #47)

API Well No.:

47 039 - 02060

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

		APPLICATIO	N FUK A PE	RMII 10 PLUG A	ND ARANDON		
4)	Well Type: Oil	Gas _		• •	Waste Dispo	sal: _	
	If Gas, Production _	X	_Or Undergro	ound storage	Deep	Shallow _	<u> </u>
5)	Elevation		<del></del>	Jarretts Branch			
		oin Creek	_County:	Kanawha	Quadrangle:	Eskdale	
6)	Well Operator 120	Froduction Co Professional P geport, WV 26	lace	_ 7) Designat Address:			
8)				9) Plugging	Contractor:		
•	Oil & Gas Terry Urba	เท		Name:	HydroCarbon Well	Service	
	Name: P. O. Box	1207		Address:	PO BOX 995		
	Address: Clendenin,	WV 25045		<del>-</del> -	Buckhannon, WV	26201	
					s to phes may h		roq.
			OFFIC	E USE ONLY	<del></del>		<del></del>
	Notification must be g		trict oil and ga	hspector 24 hours	before permitted wor	k can commenc	e. 
	Work order approved	by inspector				DECEMEN	
					Offic	RECEIVED be of Oil and	Gas

JAN 20 2015

(BN 2066)



## STATE OF WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS DIVISION //

10-18:10

Quadrangle Montgomery

Permit No. KAN-2060 WEL	L RECORD		Oil or	Gas Well Gas
Company ASHLAND OIL & REFINING COMPANY  Address Box 1913, Charleston, W. Va. 25327  Farm Eastern Gas & Fuel Associates Acres 22,52		Used in Drilling	Left in Well	Packern
Location (waters) Jarrets Br. of Fourmile Fk. of Well No. 47 - 4230 Elev. 1590'K				Kind of Packer
District Cabin Creek County Kanawha	13.3/8"	241	241	
The surface of tract is owned in fee by Eastern Gas & Fu	el 10			Size of
Assoc., 1701 Koppers Baddes Pittsburgh, Pa.	1521984			
Mineral rights are owned by Same	655 7" OD	1875'	18751	Depth set
Address	5 3/16		250 PM TA	
Drilling commenced September 23, 1965	*4 1/2"	29291	29291	Perf. top 2774 *
Drilling completed September 30, 1965	2 3/8"	27401	27401	Perf. bottom 2784'
Date Shot From To	Liners Used		9 115	Perf. top 2234'
With				Perf. bottom 2304'
Open Flow /10ths Water inI	nch			ren. bottom
/10ths Merc, inT VolumeCu.	Ft. CASING CEMI	13 3/ ENTED 7" 4 17	8" 25 sx SIZE 50 sx Z" 60 cu	C.No Ft. Date
Rock Pressure   lbs   bbls., 1st 24    Oil   FRACTURED   0-8-65 with 500 gals   mud acid 55,000   sand, 648 bbls. water & 75,000 std.  It. nitrogen. 2774-2784   10-13-65 with 50    WELL FRACTURED   10-13-65 with 50    water abd 85,000 std. cu. ft. nitrogen 2294-	hr. COAL WAS EN d. 346-349 FEET CU. 1157 FEET OO gals, mud ac	406-409	FTBS510-51	FEET 191-194 FEI S 4FEET 906-910 FEE JES FEET INCHES 30 bbls treated

RESULT AFTER TREATMENT 16/10 Merc. 3" - 1,400MCF Maxton; 105/10 Merc. 2" 1,594MCF - Weir

Fresh Water		Feet		Salt Water_		Feet	
Formation	Color	Hard or Soft	Тор	Bettom	Oil, Gas or Water	Depth	Remarks
Sand			0	42			
Shale			46	54			
Soal	0 1		54	58			
and & Shale	R		58	110			
and			110	125		DEC	EIVED
and & Shale	1-1	1	125	191		LLO	Oil and Gas
oat:			191	194		Office of	Oll and das
and & Shale	9	4	194	346		Omos	
lso			346	349	-	7	0 0 2015
and & Shale			349	406		JAN	2 0 2015
oal		1	406	409	-		
and & Shale		1	409	510		DOMESTIC STREET	partment of
oal			510	514	_	MV De	ntal Protection
hale & Red	HOCK		514	595		V V V	Intal Protectio
and I		1	595	672		Environme	elilaition
			672	718	4		
and & Shale			718	906	-		
and & Shale			906	910		-70707	
			910	1022		(TO 80 1)	
and oal			1022	1157	-		1
and		1	1157	1162	120	CC1 . 11.70	12
and & Shale			1162	1297	18	BLCLINED	3.1
and a share	1		1297	1345	1	BLC. "	
and & Shale	1	1	1345	1539	Recapilly.	Rr	70/
hale	1.5	1	1539	1689	(3)		
hale & Sand		3	1689	1753	38		
ed Rock & \$1	hale		1753	1900		Sec. 10	
and & Shale	1010		1900	1955			
ed Rock & \$1	ala I		1955	2157			
d Hock a pi	1010		2157	2257	1.0	1	

Formation	Color	Hard or Soft	. Top /6.	Battern	Oil, Gas	Depth Found	Remarks
Maxton Sand Shale Little Lime Shale & Lime Big Lime Red Rock Shale Yeir Sand Shale & Sand FOTAL DEPTH			2257 2327 2340 2380 2418 2665 2710 2765 2798	2327 2340 2380 2418 2665 2710 2765 2765 2798 2950	Checked for		
Electric Log	Tops:			· 1	CHECKER TO	23301 20/( 24271 18/(	0 W 2" 189MCF 0 W 2" 179MCF
Aexton little Lime lig Lime leir .ower Weir	•		2252 2338 2420 2765 2850	2664		2793' 28/ 28 3' 28/	0 W 2" 196MCF 0 W 2" 223MCF 0 W 2" 223MCF 0 W 2" 211MCF
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				. · · · · · · · · · · · · · · · · · · ·	Offic	RECEIVE e of Oil ar	D d Gas
				:		JAN <b>2 0</b> 20	
		11.			Enviro	Departm nmental F	ent of rotection

	Date October 27	, 19 <u>.65</u> .
APPROVED_	ASHLAND OIL & REFINING COMPANY	, Owner
Act Be	Kit E dela	-
	Division (Title)Production	
	01/20/	ついょん

nvironmental Protection WV Department of Office of Oil and JAN 2 0 2015 RECEIVED M'Cullough 1918 BOND CEMENT LOG FILING NO. AI HCBT-42049 ASHLAND OIL & REFINING COMPANY COMPANY\_ CEMENT EASTERN GAS & FUEL #47-4230 WELL PAINT CREEK FIELD. 40 STATE WEST VIRGINIA KANAWHA COUNTY. (2nd STAGE) OTHER SERVICES LOCATION: JARRELS BRANCH OF FOUR MILE FORK OF PAINT CREEK. SEC. TWP. RGE. ELEVATIONS кт. 1590' PERMANENT DATUM ELEV. 1578' G.L. DF. 1589' LOG MEASURED FROM 12' ABOVE PERMANENT DATUM GL 1578' DRILLING MEASURED FROM DATE 10-7-65 1950 2000 RUN NO. 1850 1900 TYPE LOG BOND CEMENT - TT DEPTH-DRILLER 2935' 2916,5 DEPTH-LOGGER BOTTOM LOGGED INTERVAL 1800' TOP LOGGED INTERVAL WATER TYPE FLUID IN HOLE SALINITY PPM CL. DENSITY LEIGAL FULL LEVEL MAX. REC. TEMP. DEG. F OPR. RIG TIME FOLEY RECORDED BY MR. MIDKIFF WITNESSED BY RUN BORE HOLE RECORD CASING RECORD NO. BIT FROM SIZE WGT. FROM TO 01 1883' 2935 6-17 1883 4-1/2 9.5 01 2935'

Gas

Born OC-10 2



#### STATE OF WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS DIVISION /

Quadrangle Montgomery

WELL RECORD

Oil	or	GRE	Well	Gas
				KINDI

Permit No. KAN-2060 Company ASHLAND OIL & REFINING COMPANY Casing and Tubing Used in Drilling Left in Well Address Box 1913, Charleston, W. Va. 25327 Packers Farm Eastern Gas & Fuel Associates Acres 22,521 Location (waters) Jarrets Br. of Fourmile Fk. of PaintSize Well No. 47 - 4230 Elev. 1590 | Creek Kind of Packer\_ District\_ Cabin Creek 13.3/8" Kanawha \_County\_\_\_ 241 241 The surface of tract is owned in fee by Eastern Gas & Fuel 10

Assoc., 1701 Koppers Bldgest Pittsburgh, Pa. 1521984. Size of. 65% 7" OD 1875 Mineral rights are owned by\_ 18751 Depth set Address 5 3/16\_ Drilling commenced September 23, 1965 29291 29291 2774 × 4 1/2" Perf. top. Drilling completed September 30, 1965 27401 27841 2 3/8" 27401 Perf. bottom 22341 Date Shot. Liners Used Perf. top. With\_ Open Flow /10ths Water in Inch 7" SIZE 50 5x. /10ths Merc. in CASING CEMENTED Volume Cu. Ft. Rock Pressure COAL WAS ENCOUNTERED AT 54-58 FEET 191-194 TOHES bbls., 1st 24 hr 346-349 FEET406-409 FEET BS 510-514 FEET 906-910 FEET BS WELL ACTORED 10-8-65 with 500 gals, mud acid, 20,000% sand, 648 bbls. water & 75,000 std. cu. 1157 FEET 60\_INCHES\_\_\_ 10-13-65 with 500 gals. mud acid, 25,000# sand, 630 bbls. treated water abd 85,000 std. cu. ft. nitrogen 2294-2304' RESULT AFTER TREATMENT 16/10 Merc. 3" - 1,400MCF Maxton; 105/10 Merc. 2" 1,594MCF - Weir ROCK PRESSURE AFTER TREATMENT 72 hours 480 p.s.j. Maxton - 625 p.s.j. Weir Salt Water

Hard or Oil, Gas or Water Formation Color Top Bottom Depth Remarks Sand 0 42 Shale 46 54 58

54 Coal Sand & Shale 58 110 Sand 110 125 Sand & Shale 125 191 Coat 191 194 Sand & Shale 194 346 Coal 346 349 Sind & Shale 349 406 Coal Sand & Shale 406 409 409 510 Coal 510 514

514 Shale & Red Rock 595 Sand 595 672 Shale 672 718 Sand & Shale 718 906 Coal 906 910 Sand & Shale 910 1022 Sand 1022 1157

Coal 1157 1162 Sand 1162 1297 Sand & Shale 1297 1345 Sand 1345 1539 Sand & Shale 1539 1689 shale 1753

1689 shale & Sand 1753 Red Rock & Shale 1900 and & Shale 1955 led Rock & Shale 2157

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Received Office of Oil & Gas JAN 1 6 2015

(over)

1900

1955

2157

2257

Formation	Color	Hard or Soft	Top /6	Bottom	Oil, Gas	Depth Found	Remarks
Maxton Sand Shale Little Lime Shale & Lime Shale & Lime Red Rock Shale Veir Sand Shale & Sand FOTAL DEPTH Electric Log Maxton Little Lime Rig Lime Lime Lime Lime Lime Lime Lime Lime			2257 2327 2340 2380 2418 2665 2710 2765 2798 2252 2338 2420 2765 2850	2327 2340 2380 2418 2665 2710 2765 2798 2950 2950	Checked for	gas at: 2330' 20/ 2427' 18/ 2690' 22/ 2793' 28/ 2813' 28/	0 W 2" 189MCF 0 W 2" 179MCF 0 W 2" 198MCF 0 W 2" 223MCF 0 W 2" 223MCF 0 W 2" 211MCF
				10° 10° 10° 10° 10° 10° 10° 10° 10° 10°			
			. 1		1 1	(*2) Longe	

Received Office of Oil & Gas

JAN 1 6 2015

Date October 27

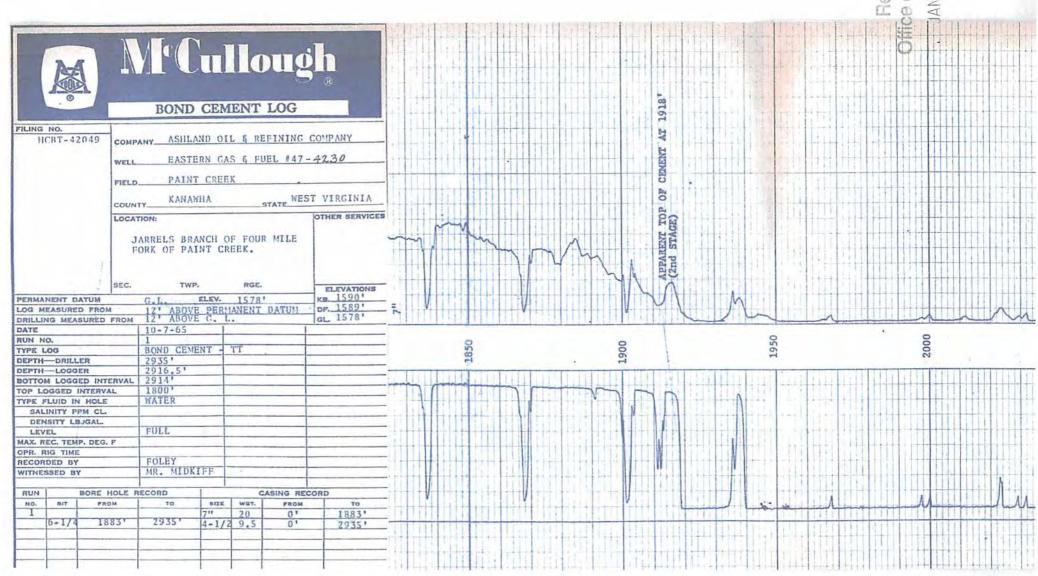
ASHLAND OIL & REFINING COMPANY APPROVED.

Division (Title)Production Supt.

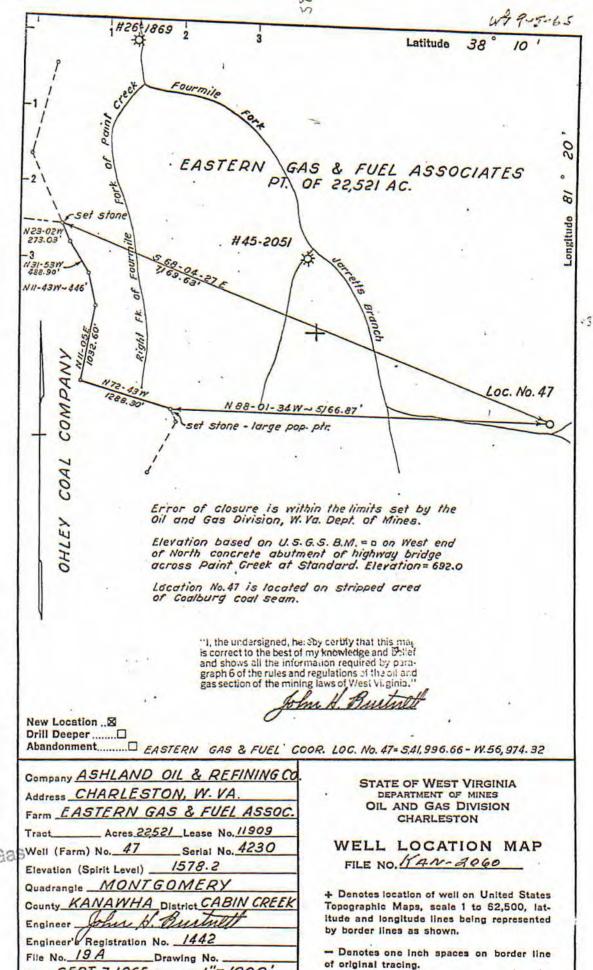
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Office of Oil & Ga

Date SEPT. 7,1965 Scale ~ /"= 1000'

HE US IMPERIAL

WW-4-A	
Revised 6/07	

1)	Date:		January	114	1, 2015			
2)	Operator's Well Number 042300 (Eastern Gas & Fuel #47)							
3)	API Well No .:	47	039		02060			
		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

1)	Surface Owner	(s) to be served:	5) (a) Coal	Operator:
	(a) Name Address	Quercus West Virginia LLC P. O. Box 9162 Chapel Hill, NC 27515	Name Address	None
	(b) Name Address		(b) Coal Ow Name	vner(s) with Declaration Pardee Minerals LLC
			Address	Scott Depot, WV 25560
	(c) Name Address		Name Address	
3)	Inspector Address	Terry Urban P. O. Box 1207	(c) Coal Le	ssee with Declaration Peabody Coal Trade LLC
	Telephone	Clendenin, WV 25045 (304) 549-5915	Address	209 W. Washington St. Charleston, WV 25302
				See Attachment.

#### 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.

OFFICIAL SEA STATE OF WEST VIR MANA Derator: **EQT Production Company** NOTARY PUBLEY: Victoria J.Roark Misty S Christie Permitting Supervisor 1207 Briercliff RdAddress: PO Box 280 Bridgeport, WV 26330 Bridgeport, WV 26330 My Commission Expires Februar 200 Hone: (304) 848-0076 Subscribed and sworn before me this day of Notary Public My Commission Expires:

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.

Received

WW-4-A

#### **Additional Coal Lessees**

Cyprus Kanawha Corp. 5400 D. Big Tyler Road Charleston, WV 25313

Office of Oil & Gas

JAN 1 6 2015

Terry Urban P. O. Box 1207 Clendenin, WV 25045

Received Office of Oil & Gas JAN 1 6 2015



WV Departmentof5 Environmental Protection

**WW-9** Revised 2/03

Page	of				
2) Opera	tor's Wel	Nur	nber		
042300 (	Eastern	Gas	& Fuel	#47)	
3) API W	eli No.:	47	039 -	02060	

#### 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 PRODUCT	TION COMPANY			OP ID:		
Watershed:	Jai		Quadrai	ngle:	Eskdal <del>e</del>		
Elevation:	1576 ft.	County:	Kanawha	D	istrict:	Cabin Creek	
Description of antic	cipated Pit Waste:			Forma	tion Fluids		
Do you anticipate u		// K	complete th		ed well work?	Yes No <u>X</u> <b>1</b> 0 ml	
Proposed Disposa  X	Land Applica Underground Reuse (at Af	ation I Injection - UIC Pe PI Number) osal Permit #.	rmit Number			·	
Drilling medium an If oil ba Additives to be use	ticipated for this was			tc.			
	sal method? Leav	y what medium will b	-		sawdust _		
issued on August understand that the permit and/or othe I certify under penapplication form at for obtaining the in	<ol> <li>2005, by the Office provisions of the rapplicable law or alty of law that I hand all attachments formation, I believe</li> </ol>	ce of Oil and Gas of permit are enforce regulation can lead we personally exanthereto and that, but the control of the control	of the West Vable by law. If to enforcemained and amased on my item is true, ac	irginia Div Violations lent actior I familiar v Inquiry of t curate and	vision of Environ of any terms or n. with the informat hose individuals d complete. I an	POLLUTION PERMIT mental Protection. I condition of the general ion submitted on this immediately responsible n aware that there are ment.	
Company Off	icial Signature		///	est	-/	<b>-</b>	
Company Off	icial (Typed or Pr	inted) <u>Victoria</u>	a Roark				
Company Off	icial Title	Permitting	Supervisor	-wy			
Subscribed and	d swom before me	this 15Th	day of _	Janu	au_		
My Commissio	n Expires	f. Christie	120/18	1	Notary Public	RECEIVED Office of Oil and Gas	
•			1 E	NOTARY	STVIRGINIA PUBLIC	JAN <b>2 0</b> 2015	
			Bric	Misty S ( 207 Briercii Igeport, Wy sion Expires J	ff Rd . €	WV Department(of Environmental Protect	

### OPERATOR'S WELL NO.: 042300 (Eastern Gas & Fuel #47)

### LEGEND

	Sr	oring	Wet Spot	
Road	Spring of the state of the stat		~~	
Planned Fence	Drain Pipe with size in inches		Water Way	
	Drain Fipe with s	ize in inches	vvaler vvay	
-/-/-/		→	<b>€</b> → <b>€</b> →	
Existing Fence	Stream	~4	Cross Drain	
— <del>X                                    </del>	/ 4 (.4 )			
Open Ditch	Artificial Filte		Rock	
		X	8666	
North	Building	Water well	Drill site	
N	200	W	$\oplus$	
Pit with Cut Walls	Pit with Compacte	ed Walls Area of	Land Application of Pit Wa	ste
	mic			
Comme	-5	>-		
ime3To	ns/acre or to correct to pH	1± Prevegetation  6.5	ALVERSALISM	m)
ime 3 To Fertilizer (10-20-20) or e	ns/acre or to correct to pH quivalent1	6.5	pHlbs/acre (500 lbs minimu	m)
.ime3To	ns/acre or to correct to pH quivalent1 ns/acre or hydroseed.	6.5 /3 ton	ALVERSALISM	m)
ime 3 To ertilizer (10-20-20) or e	ns/acre or to correct to pH quivalent1	6.5 /3 ton	ALVERSALISM	m)
ime3To ertilizer (10-20-20) or ea fulch2To Area I	ns/acre or to correct to pH quivalent1 ns/acre or hydroseed.	6.5 /3 ton	lbs/acre (500 lbs minimu	
ime 3 To Fertilizer (10-20-20) or en fulch 2 To Area I Seed Type	ns/acre or to correct to pH quivalent1 ns/acre or hydroseed. SEED MIXTURES	6.5 /3 ton	lbs/acre (500 lbs minimu	re
ime 3 To Fertilizer (10-20-20) or en Mulch 2 To Area I Seed Type Red Fescue	ns/acre or to correct to pH quivalent1 ns/acre or hydroseed. SEED MIXTURES  Ibs/acre 40 5	6.5 /3 ton Seed Type	Ibs/acre (500 lbs minimu  Area II	re
ime 3 To Fertilizer (10-20-20) or en  Mulch 2 To  Area I  Seed Type Red Fescue  Alsike Clover	ns/acre or to correct to pH quivalent1 ns/acre or hydroseed. SEED MIXTURES Ibs/acre	6.5 /3 ton Seed Type Red Fescue	Ibs/acre (500 lbs minimu Area II Ibs/ac	re
ime3To ertilizer (10-20-20) or er fulch2To Area I Seed Type led Fescue lisike Clover annual Rye	ns/acre or to correct to pH quivalent1 ns/acre or hydroseed. SEED MIXTURES  Ibs/acre 40 5	6.5 /3 ton Seed Type Red Fescue	Ibs/acre (500 lbs minimu Area II Ibs/ac	re
ime3To Fertilizer (10-20-20) or en  Mulch2To  Area I  Seed Type Red Fescue Alsike Clover Annual Rye	ns/acre or to correct to pH quivalent1 ns/acre or hydroseed.  SEED MIXTURES  Ibs/acre  40 5 15	Seed Type  Red Fescue  Alsike Clover	Ibs/acre (500 lbs minimu Area II Ibs/ac	re
ime3To  Fertilizer (10-20-20) or end  All2To  Area I  Seed Type  Red Fescue  Alsike Clover  Annual Rye  ATTACH:  Drawing(s) of road, location	ns/acre or to correct to pH quivalent1 ns/acre or hydroseed. SEED MIXTURES  Ibs/acre 40 5	Seed Type  Red Fescue  Alsike Clover	Area II  Ibs/ac  15	re
ime3To  fertilizer (10-20-20) or en  fulch2To  Area I  Seed Type  Red Fescue  Alsike Clover  Annual Rye  ATTACH:  Drawing(s) of road, location Photocopies section of inventors	ns/acre or to correct to pH quivalent1 ns/acre or hydroseed.  SEED MIXTURES  Ibs/acre40515  n, pit and proposed area for lar	Seed Type  Red Fescue  Alsike Clover	Ibs/acre (500 lbs minimu Area II Ibs/ac	re ED
ime3To  Pertilizer (10-20-20) or end  Area I  Seed Type  Led Fescue Lisike Clover Linnual Rye  ATTACH: Prawing(s) of road, location Photocopies section of inventor approved by:  Plan approved by:	ns/acre or to correct to pH quivalent1 ns/acre or hydroseed.  SEED MIXTURES  Ibs/acre40515  n, pit and proposed area for lar	Seed Type  Red Fescue  Alsike Clover	Area II  Ibs/ac  15  5	ED and Ga
ime3To Fertilizer (10-20-20) or en  Aulch2To  Area I  Seed Type Red Fescue Alsike Clover Annual Rye  ATTACH: Drawing(s) of road, location	Ins/acre or to correct to pH quivalent1 Ins/acre or hydroseed.  SEED MIXTURES  Ibs/acre  40 5 15  In pit and proposed area for lar lar large way 100 miles.	Seed Type  Red Fescue  Alsike Clover	Area II  Ibs/ac  15  5  RECEIVIOR Office of Oil a	ED and Ga

<del>01/30/2015</del>

Topo Quad: Eskdale 7.5' Scale: 1 " = 2000' County: Kanawha Date: January 8, 2015 Cabin Creek District: Project No: 52-14-00-07 Торо 47-039-02060 WV 042300 (Eastern Fuel & Gas #47) Collins Br WEIT CEDAR GROVE 7.5' QUADRANGLE ESKDALE 7.5' QUADRANGLE Buczard 47-039-02060 Mine WV 042300 NAD 27, South Zone N: 402293.49 Office of OR & Gas E: 1885473.12 JAN 1 6 2015 WGS 84 LAT: 38.104252 LONG: -81.397855 ELEV: 1576.33 PREPARED FOR: SURVEYING AND MAPPING SERVICES PERFORMED BY: ALLEGHENY SURVEYS, INC. **EQT Production Company** 1-800-482-8606 237 Birch River Road Birch River, WV 26610 PH: (304) 649-8606 FAX: (304) 649-8608 P.O. Box 280 Bridgeport, WV 26330



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

API: 47-039-02060 WELL NO.: WV 042300 (Eastern Gas & Fuel #47) .
FARM NAME: Eastern Gas & Fuel
RESPONSIBLE PARTY NAME:EQT Production Company
COUNTY: Kanawha DISTRICT: Cabin Creek
QUADRANGLE: Eskdale 7.5
SURFACE OWNER: Quercus West Virginia, LLC
ROYALTY OWNER: Pardee Minerals, LLC, et al.
UTM GPS NORTHING: 4217457 .
UTM GPS EASTING: 465119 . GPS ELEVATION: 480 m (1576 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
Real-Time Differential Office of Oil & Gas
Real-Time Differential JAN 1 6 2015
4. Letter size copy of the topography map showing the well location.  I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.
Signature Title Date



#### POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY

LEASE NAME AND WELL No. Eastern Gas & Fuel #47 - WV 042300 - API No. 47-039-02060 .

#### POTENTIAL SAMPLE LOCATIONS

There appears to be no known water samples within the required 1000' of the existing well WV 042300.

Received Office of Oil & Gas JAN 1 6 2015

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 pbane: 740-305-5007 fax: 740-305-5126 ALUM CREEK OFFICE P.O. Box 108 • 1413 Childress Rd

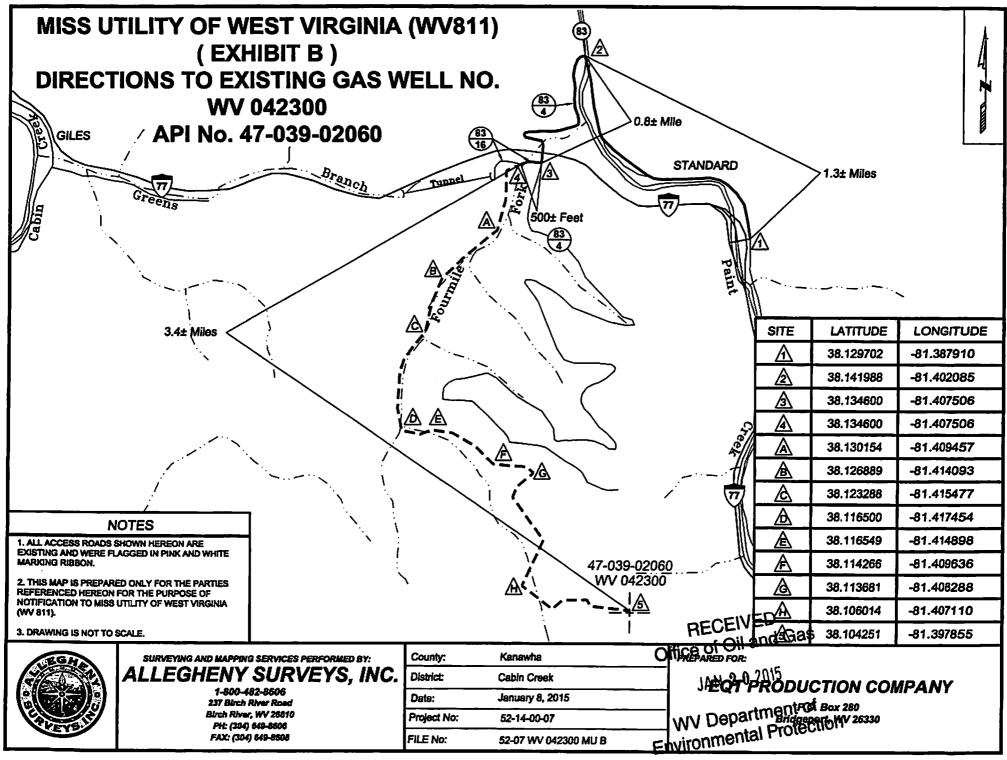
Alum Creek, WV 25003 phone: 304-756-2949 fax. 304-756-2948 RANSON OFFICE

401 South Fairfax Blvd, Suite 3 Ranson, WV 25438 phone: 304-724-5008 fax: 304-724-5010

ALLEGHENYSURVEYS.COM -

<del>01/30/201</del>

Topo Quad: Eskdale 7.5' Scale: 1 " = 2000' Kanawha County: Date: January 8, 2015 Cabin Creek District: Project No: 52-14-00-07 Water 47-039-02060 WV 042300 (Eastern Fuel & Gas #47) No potential water found within 1000 Branch Calling CEDAR GROVE 7.5' QUADRANGLE ESKDALE 7.5' QUADRANGLE Buezard 47-039-02060 WV 042300 MINE NAD 27, South Zone N: 402293.49 Office of Oil & Gas E: 1885473.12 WGS 84 JAN 1 6 2015 LAT: 38.104252 LONG: -81.397855 ELEV: 1576.33 PREPARED FOR: SURVEYING AND MAPPING SERVICES PERFORMED BY: ALLEGHENY SURVEYS, INC. **EQT Production Company** 1-800-482-8606 237 Birch River Road Birch River, WV 26610 PH: (304) 649-8606 FAX: (304) 649-8608 P.O. Box 280 Bridgeport, WV 26330



52-07 WV 042300 MU B

FILE No:

FAX: (304) 649-8608

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