

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

April 25, 2016

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-4100142, 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.

Operator's Well No: WV608138 (GOULD 8138)

Farm Name: HENDERSON, WILLIAM J., ET AI

API Well Number: 47-4100142

Permit Type: Plugging
Date Issued: 04/25/2016

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.
- 4. This well is under a consent order and must be plugged under the terms of that agreement.

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

Date: March 8, 2016
Operator's Well

Well No.

608138 (Gould #1 8138)

API Well No.:

47 041 - 00142

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

		AFF	LICATION	I FOR A FER	WIII IOPI	LUG AN	DABANDO	/14		
4) V	Well Type: Oil GasX Li		quid Injectio	n	Was	ste Dispos	al:			
lf	Gas, Produ	ction	_ x	Or Undergro	ound storage		Deep _		Shallow _	Х
5)		Elevation:	1305 ft.	_Watershed:	*****					
	ocation: istrict:	Hackers	Creek	_County: _	Lev	vis	Quadra	ngle:	Berlin 7.5	
6)	Vell Operato		duction Co			Designat Address:	ed Agent:	Rex C.		**
	ddress:		ort, WV 263			Addi 633.		ort, WV 26		
N	ame: 28	arry Stollings Conifer Drive idgeport, WV			_	Name:	Contractor: HydroCarb PO BOX 99 Buckhanno	95		
				OFFIC	E USE ONLY					
		_		ct oil and gas i	inspector 24	hours be	fore permitte		n commence.	
VV	vork order a	pproved by in	specior						١.	d

Received Office of Oil A. Gas MAR 1 4 2016

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

 Date:
 March 8, 2016

 Operator's Well
 608138 (Gould #1 8138)

 API Well No.:
 47 041 - 00142

CK # 20422

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

Well Typ	e: Oil	Gas	X	Liquid Injection	in	Waste Di	isposal:	
If Gas, P	roduction	X	Or Unde	rground storage	9	Deep	Shallow	X
	Elevation:	1305 ft.	Watersh	ed: Hackers C	reek			
Location	Hackers	Creek	County:		wis	Quadrangle:	Berlin 7.	5'
District:	FOT Pr	oduction Co	mnany	7)	Decianal	ed Agent: Re	av C. Pav	
Well Ope	And the same of th	fessional Pl			Address:			
Address:		Bridgeport, WV 26330				Bridgeport, V		
	3			9)	Plugging	Contractor:		
Oil & Ga	Barry Stollings				Name:	HydroCarbon W	ell Service	
Name:	28 Conifer Driv				Address:	PO BOX 995		
Address:	Bridgeport, W\	26330				Buckhannon, W	V 26201	
	Order: The work				well is a	s follows:		
					well is a		RECEIVED be of Oil and t	Gas
					well is a			∋as
					well is a	Offic	ce of Oil and (37

NECOCO.

PLUGGING PROGNOSIS

Gould, W.G. #8138(608138) Lewis. Co. WV District, Hackers Creek API # 47-041-00142 BY: R.Green DATE: 02/18/15

CURRENT STATUS:

10" @ 336' 8 ¼" @ 1259' 6 5/8" @ 2745' (on packer @ 2743') TD @ 4729' Elevation @ 1409'

Fresh Water @ none reported Salt Water @ None reported Coal @ 130'& 710' Gas Shows@ 2124'& 4698' Oil Shows @ None reported

- 1. Notify State Inspector, Barry Stollings, 304-552-4194, 24 hrs. Prior to commencing operations.
- 2. TIH to 4698', set 100' C1A cement plug, 4698 to 4598' (gas @ 4694, Benson Sand). WOC 4 HAS \$ CHECK TOC.
- 3. TOOH tbg to 4598', gel hole 4598' to 4300'.
- 4. TOOH tbg to 4300', set 100' C1A cement plug 4300' to 4200', (safety plug).
- 5. TOOH tbg to 4200', gel hole 4200' to 2800'
- 6. TOOH tbg to 2800', set 150' C1A cement plug, 2800' to 2650', (7" casing seat & packer).
- 7. TOOH tbg to 2650', gel hole 2650' to 2500', TOOH tbg.
- 8. Free point 6 5/8" casing, cut casing @ free point, (est @ 2450'), TOOH casing.
- 9. Set 100' C1A cement plug, 50' in /out of casing cut, perforate all freshwater, saltwater, coal, oil and gas shows below cut. Do not omit any plugs.
- 10. TOOH tbg to 2400', gel hole 2400' to 2125'.
- 11. TOOH tbg to 2125', set 100' C1A cement plug 2125' to 2025', (gas @ 2124', Berea).
- 12. TOOH tbg to 2025', gel hole 2025' to1460'.
- 13. TOOH tbg to 1460', set 260' C1A cement plug 1460' to 1200', (8 1/4" casing seat, elevation).
- 14. TOOH tbg to 1200', gel hole 1200' to 1050', TOOH tbg.
- 15. Free point 8 1/4" casing, cut casing @ free point (est @ 1000'), TOOH casing, perforate all freshwater, saltwater, coal, oil and gas shows below cut. Do not omit any plugs.
- 16. TOOH tbg to 950', gel hole 950' to 725'.
- 17. TOOH tbg to 725', set 100' C1A cement plug, 725' to 625', (Coal @ 710').
- 18. TOOH tbg to 625', gel hole 625' to 400'.
- 19. TOOH tbg to 400', set 400' C1A cement plug 400' to surface, (10" casing seat, coal @ 130')
 - 20. Erect monument with API#.
 - 21. Reclaim road, location to WV-DEP specifications.

MUST TRY TO PULL 10", IF NOT POSSIBLE, PERFORATE CASING
TO ALLOW CEMENT COVERAGE OF CONL @ 130'. Received
Office of OII & Gas
MAR 1 4 2016

WEST VIRGINIA DEPART .P OF MINES OIL & GAS DIVISION WELL RECORD

Lawisco Gould & 138

- C		
Permit No. Low 142 Westen Quad. Company	Gas Well CASING & TUBING Pittsburgh & W.Va. Gas Company	
Address Farm Location Woll No.	Clarksburg, W.Va. 10 336 336 W.G. Gould ot ux Acros 67 8½ 1259 1259 Woston S/E 3-4 6 5/8 2745 2745 8138 Elov. 1409 VA	
District Surfaco Minoral Commenced	Hackors Crook Lowis County B.H. Packor Anno J. Gould. R.D. #4, Woston, W.Va. Sizo 8\frac{1}{2} x 6 5/8 Samo Oct. 8,1947	
Completed Dato shot	Jan. 6,1948 Coal at 130' 48" 1-1-1948 Dopth 4694 to 4712 710' 48"	
Open flow Volume Rock Pressure	with 130 qts. nitro glycerino 17/10ths M in 1 1/4" FM 192,000 920 lbs. 24 hrs.	
Water	1076' 5 blr. hr.	
Clay R S Slate & Shells San	0 30 Slate & Shells Gr S&H 3458 3640	

Clay R s	0	30	Slate & Shells Gr S&H 3458	
Slato & Sholls S&H	30	130		
Coal Blk S	130	134	71	
Slate & Sholls S&H	134	263	77 1 2 2 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	
Rod Rock S	263	320	State & Shells Gr S&H 4040 Gritty Limo Gr H 4321	
Slato & Shells Wh S&H	320	448		
Limo Dk H&Broken		570		
Red Rock S	570	590		
Limo Gr H	590	605		
Slato & Shells Gr S&H	605	710		
Coal Blk S	710	714		
Slate & Shells Gr S&H	714	735		
L.Dunkard Wh MH	735	790		
Slato & Sholls Gr S&H	790	867		
B. Dunkard DkGr H	867	889		
Limo D _k Broken	889	935		
Slate & Shells Blk S&H	935	1001		
Homowood Sand Wh H	1001	1165		
Slato & Shells Blk S&H	1165	1212		
Lime Dk H	1212	1230		
1st Salt Sand Wh H	1230	1249		
Limo Wh H	1249	1285		
2nd Salt Sand Gr H	1285	1327	1	
Slate Blk S	1327	1350)	
Gritty Limo Wh H	1350	1450)	
3rd Salt Sand Gr H Slate Blk S	1450	1510)	
	1510	1513	1	
A2	1513	1571		
	1571	1.585		
Red Rock Sholls Sah	1585	1750		
Slate & Sholls Wh S&H Little Lime Wh H	1750	1785		
Slato & Sholls Gr Sah	1785	1800		
	1800	1840		
Big Injun Gr H	1840	1909		
Limo Dr. Groy Broken	1909	2028		
Boron Gr H	2028	2121	~ ^ -	
Limo Gr Brokon	2121	2217	GAS	
50t Sand Gr H	2217	2280		
Limo Gr H	2280	2330	081	ė
Slato Gr S	2330	2400	On	ĺ
Limo Rod H	2400	2406		
Slato & Shoils Gr S&H	2406	2510		
5th Sand Gr H	2510	2619		
Clota Ca	2619	2631		
Limo Gr H	2631 2641	2641		
5 "A" Sand Gr H	2649	2649		
Slate & Sholle the car	2049	2668		

Slato & Sholls Wh S&H

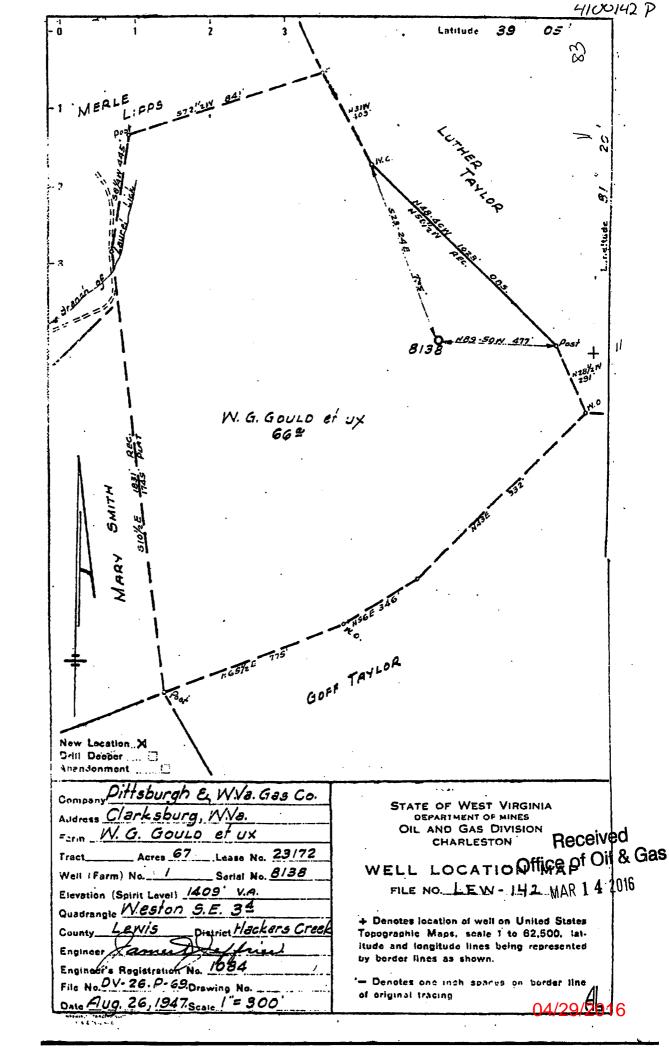
Britty Limo Bl Gr H

Gritty Limo Bl Gr H Slato & Sholls Wh S&H

Limo Gr

Slato & Shells Gr S&H

Received fice of Oil & Gas MAR 1 4 2016



WW-4-A	
Revised 6/07	

1) Date: March 8, 2016
2) Operator's Well Number 608138 (Gould #1 8138)
3) API Well No.: 47 041 - 00142

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	s) to be served:	5) (a) Coal	Operator:
	(a) Name	William J. Henderson	Name	None
	Address	5050 Hackers Creek Road	Address	
		Weston, WV 26542		
	(h) Name	Terres M. and Halon C. Handana	// A - I A -	77 W D 1 - C
	(b) Name	James W. and Helen S. Henderson		ner(s) with Declaration
	Address	478 Universe Drive	Name	William J. Henderson
		Martinsburg, WV 25404		5050 Hackers Creek Road
		1000	Address	Weston, WV 26542
	(c) Name		Name	James W. and Helen S. Henderson
	Address		Address	478 Universe Drive
				Martinsburg, WV 25404
3)	Inspector	Barry Stollings	(c) Coal Les	see with Declaration
	Address	28 Conifer Drive	Name	None
		Bridgeport, WV 26330	Address	
	Telephone	(304) 552-4194		

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** Victoria J.Roark Bv: Its: Permitting Supervisor Address: PO Box 280 Bridgeport, WV 26330 Telephone: (304) 848-0076 20/6 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 dutes of Normation and 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 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 Propriet (STATE OF IMPSTVIRE (BILL)).

STATE OF WEST VIRGINIA NOTARY PUBLIC Misty S Christie 1207 Briercliff Rd Bridgeport, WV 26330

My Commission Expires February 20, 2018

04/29/2016

WW-9 Revised 2/03

Page of _			
2) Operator's Wel	I Nur	nber	
608138 (Gould #	1 813	38)	
3) API Well No.:	47	041 -	00142

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 PRODU				_	
Vatershed:		Hackers Creek		_Quadrangle:	Berlin	
Elevation:	1305 ft.	County:	Lewis	District:	Hackers	Creek
Description of antic	ipated Pit Waste		15	Formation Fluid	is	
ο you anticipate ι Vill synthetic liner		5,000 bbls of water to Yes	to complete the Is so, wh	Section 19 and 1	? Yes_ 20_10 ml	
Proposed Disposal	Method for Trea	ted Pit Wastes:			6	Apu
X						
		ınd Injection - UIC F	Permit Number			
-		API Number)				
-	Other: Exp	sposal Permit #.				
rilling medium an		well? Air, freshwate	er, oil based, etc			
		Synthetic, petroleur		•		
dditives to be use	d?					
			THE MAN WAY STAND TO SEE			
orill Cuttings dispo	sal method? Lea	ave in pit, landfill, re	The second secon	•		
If left in	sal method? Lea oit and plan to solid	dify what medium will l	The second secon	•		
Orill Cuttings dispo	sal method? Lea	dify what medium will l	The second secon	•	-	
Orill Cuttings dispo If left in Landfill o	sal method? Lea oit and plan to solid or offsite name/per	dify what medium will l mit number?	be used? Cemen	t, Lime, sawdust	EP BOLLUTION	NIDEDMIT
Orill Cuttings dispo If left in Landfill o	sal method? Lea bit and plan to solid or offsite name/per derstand and ag	dify what medium will limit number?	be used? Cemen	t, Lime, sawdust		
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			608138 (Go	
	LEGE	ND _		
Property Boundary -	*	Diversion	11111	1/1
DI	8	Spring	Wet Spot	
Road	\circ	─ ▶	-6-	
Planned Fence	Drain Pipe with	size in inches	Water Wa	у
//_/		② ——▶	€ → ८ −	-
Existing Fence	Stream	/ 4 =	Cross Drain	
Open Ditch	Artificial Filt	er Strip	Rock	
		X	8666	
North	Building	Water well	Drill site	
N	1-00	W	\oplus	
osed Revegetation Treatmen	t: Acres Disturbed:	1± Prevegetation 6.5	n pH	
Fertilizer (10-20-20) or equi	valent	1/3 ton	Ibs/acre (500 II	os minimum)
Mulch 2 Tons	acre or hydroseed.			
	SEED MIXTURES	3		
Area I			Area II	
Seed Type	lbs/acre	Seed Type		lbs/acre
Red Fescue	40	Red Fescue		15
Alsike Clover	5	Alsike Clover		5
Annual Rye	15			
		-	Office of	Oil and Co
7774011			Onice di	or and of
ATTACH: Drawing(s) of road, location, pi Photocopies section of involve		d application.	APR	6 2016
Plan approved by:	Man Haus		WV Dep Environmer	of a Profesi
Comments:	*			Carried Colonial Colo

Title: /nspec

3-28-16

Date:

No

Topo Quad:	Berlin 7.5'	Scale:	1" = 2000'		
County:	Lewis	Date:	February 25, 201	16	
District:	Hackers Creek	Project No:	73-12-00-08		
	47-041-00142 WV	608138 <i>((</i>	Could #1 8	128)	Торо
	47-041-00142 VVV	000130 (0	30uiu # i 0	130)	39
Laurel Lick Cem	130		BEAVER THE STATE OF THE STATE O		
1500 ODF-1	1200 (CR-26/8 1700	1400	1 8 1	100	Bridg 1700
	(R-26/6	WV 6081 47-041-00		Fink-Run	School UPSHUR CO
1600 1700 1700 1700 1700 1700 1700 1700	Laurel Lick	1500	33 119		BUCKHAAMON N
1500	1200 Stot et oc 5101 Et oc 5101 Et oc 1400 1300	(R-33/4) 11-Cr 1500 Off	Received ice of Oil & Gas MAR 1 4 2016	N:736745	1.21 21458 0.337620
EGHENY O SURVEYS	SURVEYING AND MAPPING SERVICES PER ALLEGHENY SURVE 1-800-482-8606 237 Birch River Road Birch River, WV 26610 PH: (304) 649-8606 FAX: (304) 649-8608			. Box 2 <mark>80</mark> ort, WV 26330	<i>mpany</i> /29/2016



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

API: 47-041-00142 WELL NO.: WV 608138 (Gould #1 8)	
FARM NAME: William J. Henderson, et al.	<u> </u>
RESPONSIBLE PARTY NAME: EQT Production Company	
COUNTY: Lewis DISTRICT: Hackers (Creek .
QUADRANGLE: Berlin 7.5'	<u></u>
SURFACE OWNER: William J. Henderson	4
ROYALTY OWNER: Helen Sue Gould Henderson, et al.	4
UTM GPS NORTHING: 4319366 .	
UTM GPS EASTING: 557340 . GPS ELEVATION:	398 m (1305 ft) .
The Responsible Party named above has chosen to submit GPS coord preparing a new well location plat for a plugging permit or assigned A above well. The Office of Oil and Gas will not accept GPS coordinate the following requirements: 1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: me height above mean sea level (MSL) – meters.	API number on the es that do not meet
 Accuracy to Datum – 3.05 meters Data Collection Method: 	Received
Survey grade GPS : Post Processed Differential	Office of Oil & Gas
Real-Time Differential Mapping Grade GPS _X _: Post Processed Differential X Real-Time Differential X	MAR 1 4 2016
4. Letter size copy of the topography map showing the we	
I the undersigned, hereby certify this data is correct to the best of my	
belief and shows all the information required by law and the regulatio prescribed by the Office of Oil and Gas.	ns issued and
presented by the office of on and ods.	
Stacy O Ever P5#2180	2/26/16
Signature Title	Date



POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY
LEASE NAME AND WELL No. Gould #1 8138 - WV 608138 - API No. 47-041-00142

POTENTIAL SAMPLE LOCATIONS

There appears to be no known water samples within the required 1000' of the existing well WV 608138.

Received
Office of Oil & Gas
MAR 1 4 2016

BIRCH RIVER OFFICE

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 ALUM CREEK OFFICE

P.O. Box 108 · 1413 Childress Rd Alum Creek, WV 25003 phone: 304 -756 - 2949 fix. 304 - 756 - 2948 MARTINSBURG OFFICE

25 Lights Addition Drive Martinsburg, WV 25404 phone: 304-901-2162 jax: 304-901-2182

Topo Quad:	Berlin 7.5'	Scale:	1" = 2000'	
County:	Lewis	Date:	February 25, 201	6
District:	Hackers Creek	Project No: _	73-12-00-08	
Water	47-041-00142 WV 608	8138 (G	ould #1 81	138)
Laurel Lick Cem	No Potential Water S	Sources with 1400 1300 1300 1300 1300 1300 1300 1300	BEAVER THE SOLUTION OF THE SOL	Bridge 1700 Bridge
1600		1600	7720 133 119	BUCKAHAMION PA
MILITY	100	1400	15	NAD 27 South 7000
0071 1500 43.	SAWMICE RD Stoll econd-Gr	R-3374	Peceived Office of Oil & MAR 1 4 20	NAD 27, South Zone N:736745.39 E:2188151.21 Gas WGS 84 LAT:39.021458 LONG:-80.337620 ELEV:1305.45
SURVEYING AND MAPPING SERVICES PERFORMED BY: PREPARED FOR: ALLEGHENY SURVEYS, INC. EQT Production Company				
0 0 0	1-800-482-8606		P.O.	Box 280

237 Birch River Road Birch River, WV 26610 PH: (304) 649-8606 FAX: (304) 649-8608

Bridgeport, WV 26330

04/29/2016