

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 24, 2015

WELL WORK PERMIT

Re-Work

This permit, API Well Number: 47-3902739, issued to SHALE GAS PRODUCTION, LLC, 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.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.

James Martin

Chief

Operator's Well No: 1

Farm Name: BAILEY, HISEL W

API Well Number: 47-3902739

Permit Type: Re-Work Date Issued: 04/24/2015

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. <u>Failure to adhere to the specified permit conditions may result in enforcement action.</u>

CONDITIONS

- 1. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code §22-6-20, which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 2. Pursuant to 35 CSR 4-19.1.a, at the request of the surface owner all water wells or springs within 1000 feet of the proposed well that are actually utilized for human consumption, domestic animals or other general use shall be sampled and analyzed.
- 3. Pursuant to 35 CSR 4-19.1.c, if the operator is unable to sample and analyze any water well or spring with one thousand (1,000) feet of the permitted well location, the Office of Oil and Gas requires the operator to sample, at a minimum, one water well or spring located between one thousand (1,000) feet and two thousand (2,000) feet of the permitted well location.
- 4. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
- 5. 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.
- 6. During the surface casing and cementing process, in the event cement does not return to the surface, or any other casing string that is permitted to circulate cement to the surface and does not return to the surface, the oil and gas inspector shall be notified within twenty-four (24) hours
- 7. Well work activities shall not constitute a hazard to the safety of persons.
- 8. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced on this well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

3902739

Ck# 9774

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WELL WORK PERMIT APPLICATION

VVCII ODGIGIOI	: Shale (Jas Prod	duction, LLC	494508232	Kanawha	Union	Pocatalico
	(A / A / A / A / A / A / A / A / A / A			Operator ID	County	District	Quadrangl
Operator's We	ell Numbe	er: <u>HWB</u>	ailey #1		3) Elevation:	839.7	
Well Type: (a)							
(b)	If Gas:	Produc	ction X / Und	erground Sto	rage		
			/ SI			(1217
Proposed Tot	al Depth: fresh wat	er strata	Feet F depths: Existing vell-See at	Formation at Formation at Formation at Formation	Proposed Ta Proposed Tot	al Depth: Br	own Shale
Annroximate	coal sear	n depths	Existing well				_
				Existing well			
			al, Karst, other):				
		al seams	s tributary to act	tive mine? N	lone known	SE 64	11 00
1) Does land c	ontain co	ai scaine				312 O L	
2) Describe pro	nosed wel	I work an	d fracturing meth	ods in detail (a	attach addition	al sheets if r	needed)
2) Describe prop	posed wel	l work an	nd fracturing meth	nods in detail (a	attach addition o original TD	al sheets if r	needed) Cement A 1/2
2) Describe prop	posed wel	l work an	d fracturing meth	nods in detail (a	attach addition o original TD	al sheets if r . Install & C	needed) Cement 4 1/2 ttached welved
2) Describe prop	posed wel	l work an bing. Cl ginal well o	nd fracturing meth lean out well usi drilled & shot in 19	nods in detail (a ng 6-1/2" bit t 76. Has existing	attach addition o original TD 9 5/8" and 7" o	al sheets if r Install & Casing. (See a	needed) Cement 4 1/2 ttached welved
2) Describe proper of emove existing sing. Nitrogen gas 3)	posed wel 2 3/8" tu as frac. Ori	I work an bing. Cl ginal well o	nd fracturing meth lean out well usi drilled & shot in 19	nods in detail (a ing 6 1/2" bit t 76. Has existing	attach addition o original TD 9 5/8" and 7" o	Install & Casing. (See a	needed) Cement 4 1/2 ttached welved
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2) Describe properties emove existing sing. Nitrogen gate 3) TYPE S Conductor	posed well 2 3/8" tu as frac. Ori	I work an bing. Cl ginal well of CA ATIONS	d fracturing meth lean out well usi drilled & shot in 19 ASING AND TU	nods in detail (and 6-1/2" bit to 1/2" bit to 1/2" bit to 1/4. Has existing BING PROGITION FOOTAGE For Drilling	RAM INTERVAL	Install & Casing. (See a	needed) Cement 4 1/2 ttached yelled
2) Describe properson existing sing. Nitrogen gas 3) TYPE S Conductor Fresh Water	posed well 2 3/8" tu as frac. Ori	I work an bing. Cl ginal well of CA ATIONS	d fracturing meth lean out well usi drilled & shot in 19 ASING AND TU	nods in detail (and 6-1/2" bit to 1/2" bit to 1/2" bit to 1/4. Has existing BING PROGITION FOOTAGE For Drilling	RAM INTERVAL	Install & Casing. (See and August 1) S CEM Fill -up (Casing Company	needed) Cement 4 1/2 ttached yelled
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2) Describe properson existing sing. Nitrogen gas 3) TYPE S Conductor Fresh Water Coal Intermediate	posed well 2 3/8" turns frac. Ori	I work an bing. Cl ginal well of the control of the	d fracturing meth lean out well usi drilled & shot in 19 ASING AND TU Weight per ft	nods in detail (ang 6-1/2" bit to 76. Has existing BING PROGIF FOOTAGE For Drilling 254	RAM INTERVAL Left in Wel Existing	Install & Casing. (See and August 1) S CEM Fill -up (Casing Company	needed) Cement 4 1/2 Ittached welfed MENT Cu. Ft.) TS cu. ft.
2) Describe properson existing sing. Nitrogen gas 3) TYPE S Conductor Fresh Water Coal Intermediate Production	posed well 2 3/8" turns frac. Oriente Size 9 5/8 7" 4.5"	I work an bing. Cl ginal well of CA ATIONS Grade H-40 K-55	d fracturing meth lean out well usi drilled & shot in 19 ASING AND TU Weight per ft	nods in detail (ang 6-1/2" bit to 1/2" bit to 1/2" bit to 1/4. Has existing bing proof FOOTAGE For Drilling 254 2339 4217	RAM INTERVAL Left in Wel Existing New	Install & Casing. (See a CEM) Fill -up (CEM) 200	MENT Cu. Ft.) TS cu. ft.

04/24/2015





STATE OF WEST VIRGINIA DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Permit No. 2739

Coal was encountered at.

130

Brown Shale

Fresh water_

Producing Sand_

Rotary_X_	Oil
Cable	GasX
Recycling	Comb.
Water Flood	Storage
Disposal	

(Kind) Company Ajax Pipe Line Company Address P.O. Box 6190 Charleston W.Va Farm H.W. Bailey Acres 524 Casing and Used in Left Cement fill up Tubing Drilling in Well Cu. ft. (Sks.) Location (waters) Sugar Camp Size Well No. 1 _ Elev_ 839.7 20-16 District Union ___ CountyKanewha Cond. The surface of tract is owned in fee by_____ 13-10" H.W. Bailey 9 5/8 32# 254 254 Surface Address Limestone Branch 8 5/8 Mineral rights are owned by Same 20# 2329 2329 165 sacks _ Address_ 5 1/2 Drilling Commenced_6/2/76 4 1/2 Drilling Completed 6/23/76 Initial open flow Show cu. ft. bbls.

Final production 85,000 cu. ft. per day bbls. J-55 4217 4217 Liners Used Well open _ hrs. before test 400 RP. Well treatment details: Attach copy of cementing record. Shot with 8,000# 80% Gell 1,2001

Feet

Feet _

- Inches

1150

1,220

Salt Water___

Depth _

Formation Color Hard or Soft Top Feet **Bottom Feet** Oil, Gas or Water • Remarks Soil 10 Sand and Slate Salt Sand 10 1052 1052 1500 Salt Water 1150 Big Lime 1680 1835 Big Injun 1840 1900 Gas 1845 Berea 2260 2275 Gas, 011, 2260 Sand. Slate 2275 3200 Slate, Shale 3200 4220 4220 T. D. 04/24/2015

(over)

* Indicates Electric Log tops in the remarks section.

WW-2A		1). Date:
(Rev. 6-14)		2.) Operator's Well Number HW Bailey 1
		•
		State County Permit
		3.) API Well No.: 4/- 39 - 02739
	STATE	OF WEST VIRGINIA
DEI	PARTMENT OF ENVIRONMENT	TAL PROTECTION, OFFICE OF OIL AND GAS
	NOTICE AND APPLICA	TION FOR A WELL WORK PERMIT
-	wner(s) to be served:	5) (a) Coal Operator
(a) Name	Elvin D. Tate	Name
Address	223 Barred Owl Drive	Address
	Charleston, WV 25312	
(b) Name	Tiffanv & Patrick Arbaugh	(b) Coal Owner(s) with Declaration
Address	284 Barred Owl Drive	Name
	Charleston, WV25312	Address
Cheryl Bowen,	07 Laurel Rd, Poca, W 251	59
(c) Name	William F. Young	Name
Àddress	161 Midland Trail	Address
	Hurricane, WV 25526	
6) Inspector	Terry Urbin	(c) Coal Lessee with Declaration
Address	P.O. Box 1207	Name
	Clander NV 25045	
Telephone	3-4-549-5915	
		MED ABOVE TAKE NOTICE THAT:
Included is		contract or contracts by which I hold the right to extract oil and gas
OR		
	the information required by Chapter 22	, Article 6, Section 8(d) of the Code of West Virginia (see page 2)
		of the West Virginia Code I have served copies of this notice and
application, a lo		ents pages 1 through on the above named parties by:
-	Personal Service (Affidavit atta	
-	Certified Mail (Postmarked post	
	Publication (Notice of Publication	
inave issued under th		d 35 CSR 4, and I agree to the terms and conditions of any permit
		onally examined and am familiar with the information submitted on
		used on my inquiry of those individuals immediately responsible for
	formation, I believe that the information	
	ware that there are significant penalties	for submitting false information, including the possibility of fine and
imprisonment.		1 de la constantina de la
احصنحط	Well Operator	Style Gas Production, LLC
	OFFICIAL SEAL By:	
	NOTARY PUBLIC Its:	Man 1 19 Man 16 1
《記修 研》。	WILLIAM T DOUGLASS JE WILLIAM T DOUGLASS	Spencer my 25276
	204 SENECA VALLEY ESTATES CHARLESTON, WV 25320 Telephone:	304-927-5228
Girenon	My commission expires April 27, 2017 Email:	adougless of reserve of and eas. com
	d sworn before me this 11th day of	
1	1 T. 19	
My Commission	Evoires A SCI \	Notary Public
My Commission	II ⊂xhiies	7 300()
Oil and Gas Priva	7)]	7

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a 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 4/24/2015 depprivacyofficer@wv.gov

87	(Domestic Mail O	MAIL™ RE	Coverage Provided)
8187	For delivery informa	ation visit our websi	te at www.usps.come
PH23	Postage Certified Fee	\$	67月
0000	Return Receipt Fee (Endorsement Required) Restricted Delivery Fee (Endorsement Required)		Postmark Here
0850	Total Postage & Fees	\$	H.W. Bailey#1
7009 0820	or PO Box No. 107	Bowen Lgyrel Road WV 25159	
	PS Form 3800, August 2	2006	See Reverse for Instructions

Received

MAR 1 2 2015

WW-70 Rev. 7/01

Affidavit of Personal Service

State of West Virginia
State Of West Virginia County Of Kanawha
The undersigned, being first duly sworn, says that the undersigned served a true and complete copy of all sides of
(1) Notice on Form WW-2(A) / WW-3(A) / WW-4(A) / WW-5(A) / WW-6(A) (2) Application on Form WW-2(B) / WW-3(B) / WW-4(B) / WW-5(B) / WW-6(B) (3) Plat showing the well location on Form WW-6, and (4) Construction and Reclamation Plan on Form WW-9
all with respect to operator's Well No. Hw Balcy 1 located in Union District, Kanacha County, West Virginia, upon the person or organization named
Elvin D. T. to
by delivering the same in kanacha County, State of West Virginia on the 8th day of December, 2014 in the manner specified below.
[COMPLETE THE APPROPRIATE SECTION]
For an individual:
Handing it to him X / her _ / or, because he _ / she _ / refused to take it when offered it, by leaving it in his _ / her _ / presence.
[] Handing it to a member of his or her family above the age of 16 years named who resides at the usual place of abode of the person to be served, and asking the family member to give it to the person to be served as soon as possible.
For a partnership: [] Handing it to
For a limited partnership: [] Handing it to the general partner, named
For a corporation: [] Handing it to the corporation's employee/ officer/ director/ attorney in fact/ named
(Signature of person executing service)
Taken, subscribed and swork before me this 9th day of December 2014. My commission expires Hicemby 10, 2017
Warred Motary Public
(AFFIX SEAL IF NOTARIZED OUTSTOE THE STATE) OFFICIAL SEAL STATE OF WEST VIRGINIA NOTARY PUBLIC NOTA
MAR 1 2 2015 David N. Brannon HC 75 Box 410 Charles December 10 2017

Affidavit of Personal Service

State of West Virginia
State Of West Virginia County Of Kanawha
The undersigned, being first duly sworn, says that the undersigned served a true and complete copy of all sides of
(1) Notice on Form $WW-2(A) \times / WW-3(A) = / WW-4(A) = / WW-5(A) = / WW-6(A) = (2)$ Application on Form $WW-2(B) \times / WW-3(B) = / WW-4(B) = / WW-5(B) = / WW-6(B) = (3)$ Plat showing the well location on Form $WW-6$, and (4) Construction and Reclamation Plan on Form $WW-9$
all with respect to operator's Well No. Hw Baily 1 located in Union District, Kanawha County, West Virginia, upon the person or organization named
Tiffony Arbough
Tiffany Arbauha County, State of West Viginia on the 8th day of December , 2014 in the manner specified below.
[COMPLETE THE APPROPRIATE SECTION]
For an individual: [X] Handing it to him/ herX_/ or, because he/ she/ refused to take it when offered it, by leaving it in his/ her/ presence.
[] Handing it to a member of his or her family above the age of 16 years named who resides at the usual place of abode of the person to be served, and asking the family member to give it to the person to be served as soon as possible.
For a partnership: [] Handing it to
For a limited partnership: [] Handing it to the general partner, named
For a corporation: [] Handing it to the corporation's employee/ officer/ director/ attorney in fact/ named
(Signature of person executing service)
Taken, subscribed and sworn before me this 10 day of March 2015. My commission expires Humber 10, 2017 Lavid N. Kiannon Notary Public
(AFFIX SEAL IF NOTARIZED OUTSIDE THE STATE VCC
MAR 1 2 2015 MAR 1 2 2015 MAR 1 2 2015

SUNITED STATES POSTAL SERVICE

OF JAM 15

Sender: Please print your name, address, and ZIP+4 in this box

First-Class Mail Postage & Fees Paid USPS Permit No. G-10

929 Charleston Rd Shale Cas Production, LLC Spencer WU 25276

ի վոր Արդայի հինաբարի հինարականի և հինականի և

SENDER: COMPLETE THIS SECTION

COMPLETE THIS SECTION ON DELIVERY 20

A. Signature

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse
- Attach this card to the back of the mailpiece, or on the front if space permits. so that we can return the card to you.

B. Received by

C. Date of Delive

hen

1. Article Addressed to:

D. Is delivery address different from item 1? Yes

If YES, enter delivery address below:

□ No

Poca, WV 25159 107 Laurel Road Cheryl Bowen

2. Article N

PS Form (Transfer

MAR

Office of Off and G

WV Dept. of Environmenta

WV Dept. of Environmenta

Nestricted Delivery? (B.

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銛	2
tifled	중
~	0
Mai	
_	
	- 1

- ☐ Express Mail
- A Return Receipt for Merchandi
- D Yes

15-02-M-15

SENDER: COMPLETE THIS SECTION

COMPLETE THIS SECTION ON DELIVERY

■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired

UNITED STATES POSTAL SERVICE

大学 一大学 家院的

- Print your name and address on the reverse
- so that we can return the card to you.

 Attach this card to the back of the mailpiece, or on the front if space permits.

Permit No. G-10

First-Class Mail Postage & Fees Paid USPS

Article Addressed to:

D. Is delivery address different from item 1? Yes

If YES, enter delivery address below:

ONO

B. Received by (Printed Name)

C. Date of Delive

D Agent

Sender: Please print your name, address, and ZIP+4 in this box

Spencer WV 25276

929 Charleston Road

Shale Gas Production, LLC

William F Young

Hurrane WU 25526

3. Service Type

Certified Mail

☐ Express Mail

Article Number

(Transfer from service label)

PS Form 3811, February 2004

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4. Restricted Delivery? (Extra Fee)

□ Yes

☐ Insured Mail ☐ Registered

□ C.O.D.

☐ Return Receipt for Merchand

Domestic Return Receipt

102595-02-M-1

COAL OPERATOR, OWNER, OR LESSEE WAIVER

CountyKanawha			11.4
Operator Shale Gas Production, LLC	Operator's Well	Number HW Baile	ey #1
INSTRUCTIONS TO C	OAL OPERATOR,	, OWNER, OR LESSEI	
To the coal operator, owner, or le any objection you wish to make or are re- with the Chief of the Office of Oil and Ga by the Office. Mail objections to:	quired to make by	WV Code 22-6-15, 16	or 17, must be filed
Chief, Office of Oil and Gas Department of Environmental Protection 601 57 th St. SE Charleston, WV 25304 (304) 926-0499 extension 1654			
	WAIVER		
location, the well location has been added work proposed to be done at this location requirements of the West Virginia Code at the Person FOR EXECUTION BY A NATURAL PERSON	n, provided, the well and the governing re	I operator has complied	d with all applicable
Date	Compar Name	ny	
Signature	By Its		Date
Received		Signature	Date
Office Environmental	No Know	un owner open	ral-or, or
Office of Oil and Gas WW Dept. of Environmental Protection	No Know	owner open f workable con	lbed seam
WV Dept. of Environmental	185582 0	owner, open f workable con this tract.	lbed Seam

Operator's Well Number HW Bailey #1

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6, Section 8(d) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
Hisel W. Bailey et. al.	Shale Gas Company	1/8	LB 195/394
Shale Gas Company	Shale Gas Production, LLC	same	AB 242/323

Acknowledgement of Possible Permitting/Approval In Addition to the Office of Oil and Gas

The permit applicant for the proposed well work addressed in this application he reby a cknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources
- WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

MAR 1 2 2015

Office of Oil and Gas
WV Dept. of Environmental Protection

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be ac quired from the appropriate aut hority before the affected activity is initiated.

Well Operator:

By: Its:

Shale Gas Production, LLC

Managing Member

WW-9 (5/13)

	Page	of
API Number 47-39	- 2739	
Operator's Well	No. HW Bailey #1	

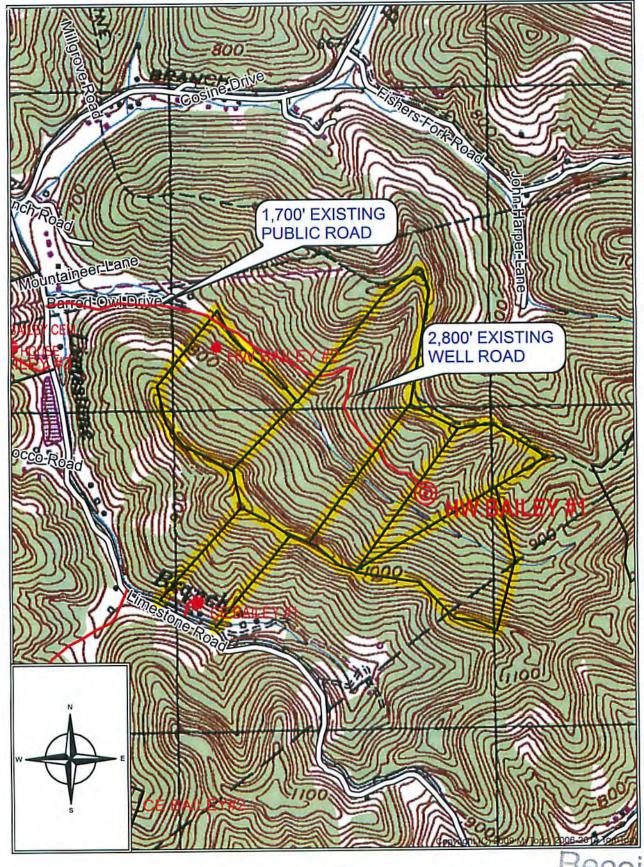
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Shale	Gas Production, LLC		OP Code	
Watershed (HUC 10)_S	ugarcamp Branch	Quadrang	le Pocatalico	
Elevation 839,7	County_Kana	wha	District_ Union	
Do you anticipate using	more than 5,000 bbls of water to	complete the propose	d well work? Yes	No ×
Will a pit be used for dr	ill cuttings? Yes No	x		
If so, please de	scribe anticipated pit waste: fres	h water		
Will a syntheti	e liner be used in the pit? Yes x	No	If so, what ml.? 20	
	osal Method For Treated Pit Wast			
•	Land Application Underground Injection (UIC I Reuse (at API Number Off Site Disposal (Supply form Other (Explain	n WW-9 for disposal	location)	eived 3
Will closed loop system	be used? N/A			
Drilling medium anticir	ated for this well? Air, freshwate	r, oil based, etc. Air	WV Dept of Souls	Oil and Gas
	hat type? Synthetic, petroleum, e			
	drilling medium?			
			The last of the first of the	
	nethod? Leave in pit, landfill, rem			licipated
-If left in pit ar	d plan to solidify what medium w	rill be used? (cement	, lime, sawdust) Soil/dirt	
-Landfill or of	site name/permit number?			
on August 1, 2005, by t provisions of the permi law or regulation can le I certify under application form and a obtaining the informati penalties for submitting Company Official Signa	ed Name) J. Scott Freshwater	est Virginia Departm ons of any term or c onally examined and based on my inqui on is true, accurate, a	ent of Environmental Prote ondition of the general per- l am familiar with the info ry of those individuals in and complete. I am aware	ction. I understand that the mit and/or other applicable ormation submitted on this numediately responsible for
Subscribed and sworn b	Wit July	of November	Notary Public	OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGIN WILLIAM T DOUGLASS 204 SENERALLE TO THE TOTAL My commission expires April 27.

Form WW-9			Operator's	Well No. HW Baile
Proposed Revegetation Treatment: Acres Disturbed		1.5	Prevegetation	_{pH} 5.5
1 ime 3	Tons/acre or to co	orrect to pH 6.5		
Fertilizer (10-20-20 c	0.25	lbs/acre (500 lbs n	-i-i\	
Fertilizer (10-20-20 d	or equivalent) 2		unimum)	
_{Mulch} Hay		Tons/acre		
		Seed Mixtures		
Are			Seed Type	Area II lbs/acre
Sced Type Orchard Grass	lbs/acre 25	Ladino		5
	15	KY 31		40
Red Top Clover		<u> </u>		
Drawing(s) of road, location,p			1 - 1 - 2 / 1 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 /	
Drawing(s) of road, location,p Photocopicd section of involv Plan Approved by:	ed 7.5' topographic sh	eet.		Receiveo
Attach: Drawing(s) of road, location,p Photocopied section of involv Plan Approved by: Comments:	ed 7.5' topographic sh	eet.		Received
Drawing(s) of road, location,p Photocopicd section of involv Plan Approved by:	ed 7.5' topographic sh	eet.		

04/24/2015

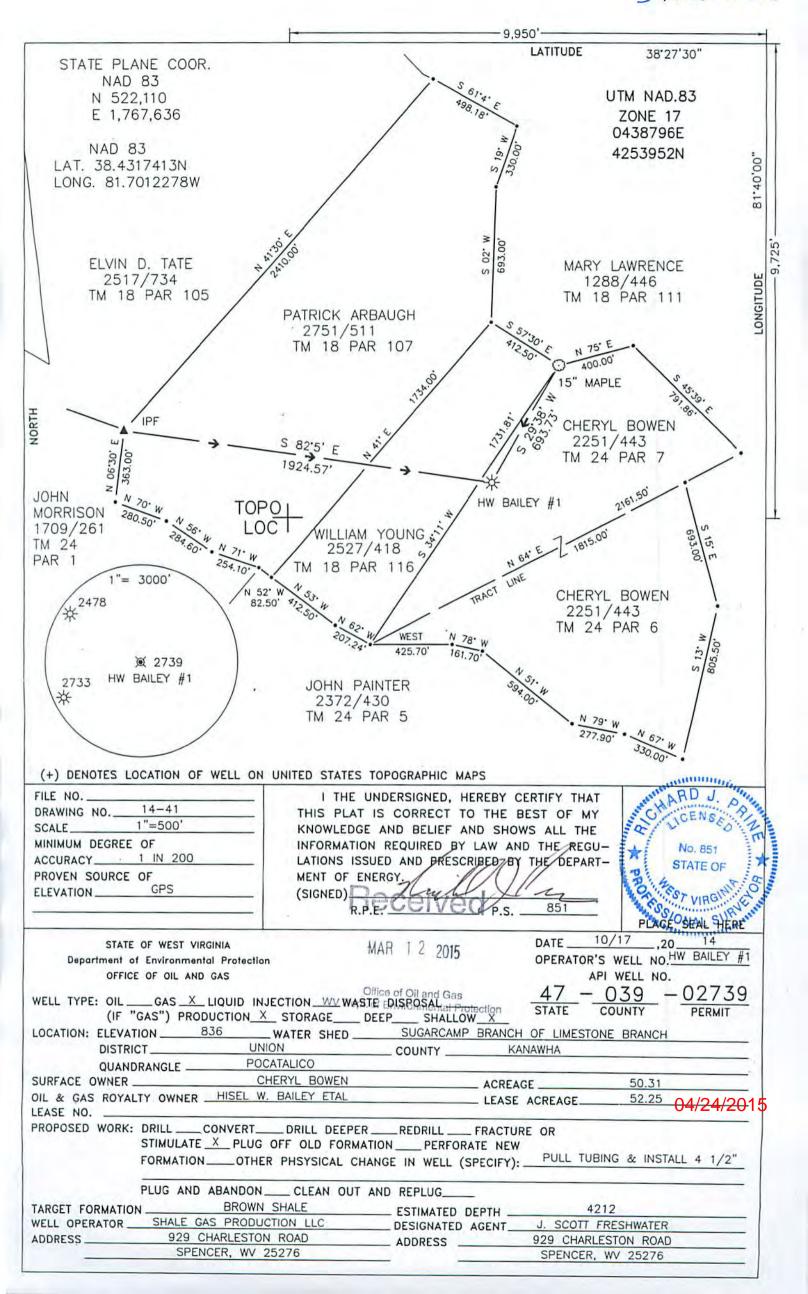


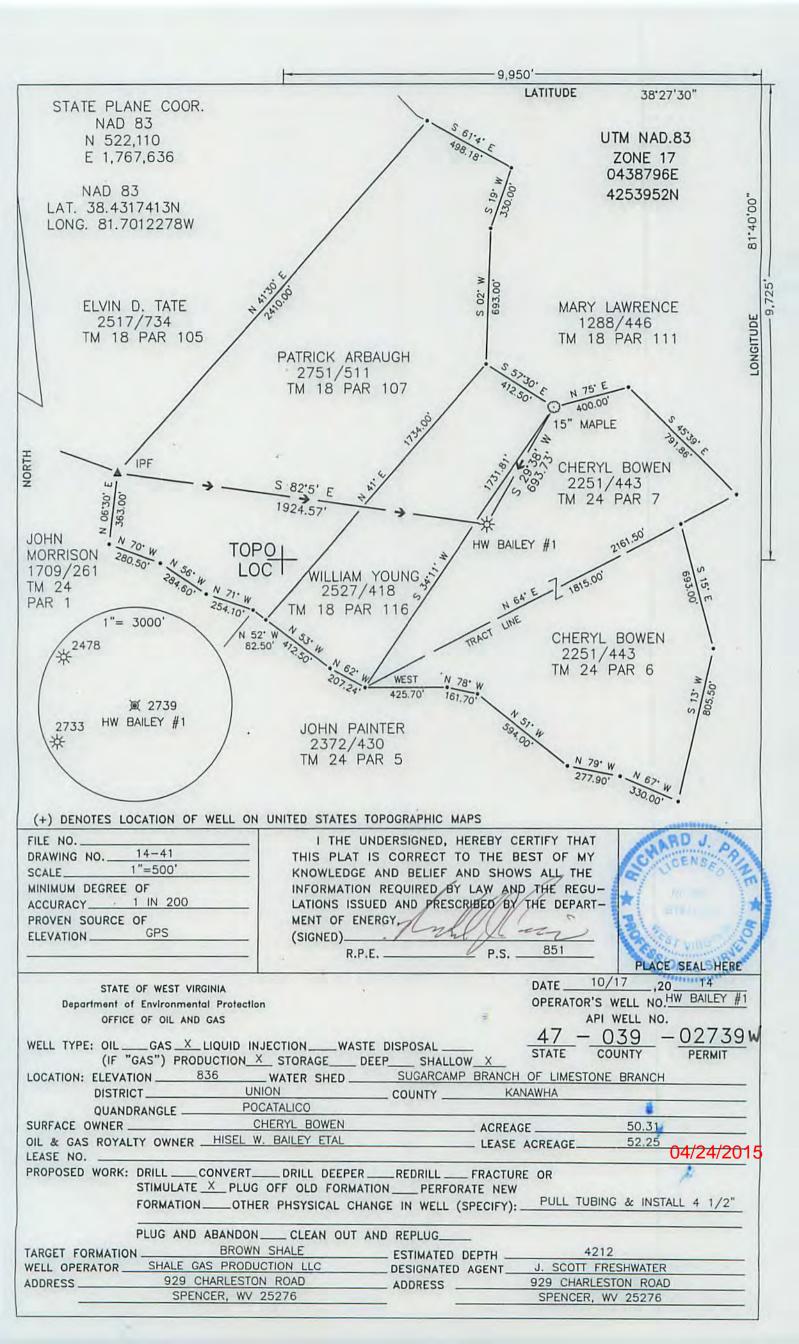
SCALE 1:12000 0 1000 2000 3000 FEET

Received

MAR 1 2 2015







WW-2B	1
(5-12)	

Well	No.	HW E	Bailey #1

West Virginia Department of Environmental Protection Office of Oil and Gas

NOTICE TO SURFACE OWNERS

The well operator named below is preparing to file for a permit from the state to drill a new well. Before a well work permit can be filed with the Chief of the Office of Oil and Gas, the well operator is required to have given notice of the right to request water well or spring analytical testing. This notice shall be given to the owners or occupants of land which have a water well or spring being utilized for human consumption, domestic animals, or other general use and which is located within 1000 feet of the proposed well site.

With this form, the operator is giving you notice of your right to request analytical testing. The operator is required to sample and analyze the water wells or springs of all owners or occupants who request it. Therefore, if you wish to have your water well or spring tested, contact the operator named below.

All sampling shall be completed prior to drilling. Within thirty (30) days of the receipt of such sample analyses the operator shall submit the results to the Chief of the Office of Oil and Gas and to the owners or occupants who may have requested them.

Be advised, you have the right to sample and analyze any water supply at your own expense.

Listed below is the laboratory chosen by operator to perform analysis, and contactor chosen to collect sample.

Certified Laboratory Name Sampling Contractor		ALS Environmental Lab	Received
Well Operator	Shale Gas Pro	oduction, LLC	MAR 1 2 2015
Address	929 Charlesto	n Road	
	Spencer, WV	25276	Office of Oil and Gas
Telephone	304-927-5228		WV Dept. of Environmental Protection

FOR OPERATOR'S USE ONLY: Below, or on an attached page, list those persons which were given this notice. Place an asterisk beside the one(s) that contacted you and requested sampling and analyses. If there were no requests made, indicate by underling which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site, the Chief may require the operator to test wells up to 2000 feet from the proposed site.

Sec Attached.

Well Information/Potential Water Well Sample Sheet

Operator: Shale Gas Production Well Number: H. Bailey #1

Shale Gas Production, LLC

Well Information / Potential Water Well Sample Data Sheet

Operator: Shale Gas Production, LLC

Lease Name and Number: H Bailey #1

Comments

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 one thousand (1,000) feet of the proposed well site. The following landowners have been notified of the opportunity to request a water sample should it be necessary.

Please note that the following information is subject to change upon field inspection

Individual Contacted or Notified

Owner / Occupant: Tiffany Arbaugh

304-552-6254

Address: End of Barred Owl Drive, Charleston, WV 25312

Letter/Notice Date: 10/13/14

Comments: Left notice with lady watching kids; Mrs. Arbaugh called me on 10/13/14; said no well. Has spring but far away from well. Only home within 1,000 feet of wellhead. She did not see out

sample of spring be taken-

Received

MAR 1 2 2015

Date

Thickness Thickness

No. Ft._

_Depth _

QUADRANGLE PERMIT NO. 2739	WEL
COMPANY AJAX Pipe Li	Ne Co
ADDRESS	
FARM H.W. Bailey	ACDEC 521/4
LOCATION (waters) Sugar Co	amp Branch
WELL NO. 1 E	LEVATION 839. 7
DISTRICT UNION COU	NTV Kanaul n
The surface of tract is owned in fee	
Address	
Mineral rights are owned by	
Address	
Drilling commenced 6 - 2	
Drilling completed L - 25-	76 Drilled to
Date Shot 6-23-76 From 31)	
With	10
Open Flow Show Billoth W	ater inInch
/10th M	erc in Tool
Volume 130,000 after 4	8 hr Cu. Ft.
, / - A	. 24 hrs.
	bbls., 1st 24 hrs.
WELL ACIDIZED	, 22
WELL FRACTURED	
RESULT AFTER TREATMENT	
OCK PRESSURE AFTER TREATM	IENT
RESH WATERFEET_	
ALT WATERFEET_	

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of packer
16"			- Carlo
13%"			Size of
10¾"			
9%″32€	254'	254	Depth set
85%"	3	165514	Perf. top
7" 20 KS	5 329	23 29	
5½"			Perf. bottom
4½"			Perf. top
3½"			
23/8"4/60#	R2 J-55	4217	Perf. bottom
Liners Used			

Size

Coal Encountered: _____Depth ___

Casing Cemented_

Coal Encountered:

OIL OR GAS WELL gas.