

#### 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 21, 2014

#### WELL WORK PERMIT Re-Work

This permit, API Well Number: 47-3902747, 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: HW BAILEY #3

Farm Name: BAILEY, HISEL W.

API Well Number: 47-3902747 Permit Type: Re-Work

Date Issued: 08/21/2014

#### **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. 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.

08/22/2014

WW - 2B (Rev. 8/10)

Depths Set

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

) Well Operate	or: Shale	Gas Pro	duction, LLC	494508232	Kanawha	Union	Pocatalico
				Operator ID	County	District	Quadrangle
) Operator's W	Vell Numb	er:HW E	Bailey #3		3) Elevation:	829	-
Well Type: (a	a) Oil	_ or Ga	s <u>x</u>				
(b	) If Gas:	Produ	ction X / Un	derground Sto	rage	_	
			/ 8				
Proposed To Approximate	tal Depth fresh wa	:4193 ter strata	Feet a depths: Existing Existing well-See	Formation at F well- See attached			
Approximate	coal sea	m depths	Existing well				
			al, Karst, other):				
					. 5 9 W 5 917.2		
1) Does land o	contain co	oal seam	s tributary to ac	tive mine?	one known		-
	10/2000			and the same			e de de
2) Deceribe pro	nocod wo	II WORK OF	d fracturing moth	c) lictoh ni shor	ttach additions	al chapte it no	Seded!
2) Describe pro							
move existing 2	3/8" tubing.	Clean out	t well using a 6 1/2	" bit to original To	). Install and ce	ment 4 1/2" ca	sing.
move existing 2	3/8" tubing.	Clean out		" bit to original To	). Install and ce	ment 4 1/2" ca	sing.
move existing 2	3/8" tubing.	Clean out	t well using a 6 1/2	" bit to original To	). Install and ce	ment 4 1/2" ca	sing.
move existing 2 rogen gas frac. 0	3/8" tubing. Original wel	. Clean out I drilled an	t well using a 6 1/2 d shot in 1976. Ha	" bit to original TD as existing 9 5/8" BING PROGR	o. Install and ce and 7" casing. S	ment 4 1/2" ca	vell record.
move existing 2 rogen gas frac. 0	3/8" tubing.	. Clean out I drilled an	t well using a 6 1/2 d shot in 1976. Ha	" bit to original TD as existing 9 5/8"	AM INTERVALS	ment 4 1/2" ca	vell record.
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QG-10 Rev. - 9-71



### STATE OF WEST VIRGINIA DEPARTMENT OF MINES

### Oil and Gas Division

Charleston N W	AAETT	RECORD		RotaryX Cable	••
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erm)t No. 191-2747					d Storage
ermit No.				Disposal	•
					(Kind)
<sub>ompany</sub> Ajax Pipe Line Compan	у	6			
ddress P. O. Box 6190, Charles	ton, W. Va.	Casing and	Used in	Left	Cement fill up
H. W. Bailey		Tubing	Drilling	in Well	Cu. ft. (Sks.)
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istrict Union County Ka	nawha	Cond.	1		į
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H. W. Bailey		9 5/8 H 40	242	242	Surface
ddress Rt. 4. Box 43, Charlest	on. W.Va.	8 5/8			Juriace
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rilling Completed 11-18-76		3	<del> </del>	<del></del>	
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(over)

\* Indicates Electric Log tops in the remarks section.

10, 15,70 Kg. 38 LATITUDE 3 MAGNETIC NORTH 1976 Eugene Wolfe ET UX 11.57Ac -2 Paint in E. Intersection of Pither Branch Board & Limestone Branch Read ..... Iran Pin in dren Hand Brossamis BEULAH & EARL YOUNG ISOM BAILEY 18. 15Ac. MARGARET & DAVID PRITT 27. 47Ac. CARL & MARTHA BAILEY TOM BAILEY BAILEY HISEL W. BAILE O MELL No. I CERTIFICATE hereby certify that this map is correct to the bes NEW LOCATION required by paragraph 6 of the RECONDITION accuracy is one part in 200 DRILL DEEPER ABANDONMENT Signed. STATE OF WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS DIVISION CHARLESTON LINE COMPANY P.O. Box 6190 CHARLESTON, M HISEL W. BAILEY ETAL 08/22/2014 WELL LOCATION MAP FILE No. KAN - 2747 CHARLESTON, UNION 1" . 660' MAY 31, 1976

ner in the

(Rev. 6-14)		1). Date:
(Nev. 0-14)		2.) Operator's Well Number HW Bailey #3
		State County Permit
		3.) API Well No.: 47- <u>Kanawha</u> - <u>2747</u>
DEP	ARTMENT OF ENVIRONMEN	OF WEST VIRGINIA ITAL PROTECTION, OFFICE OF OIL AND GAS ATION FOR A WELL WORK PERMIT  Check # 1000 # 650
Street events.	1. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	
	ner(s) to be served:	5) (a) Coal Operator
(a) Name	Michelle Bailey	Name
Address	1752 Limestone Road	Address
	Charleston, WV 25312	
(b) Name		(b) Coal Owner(s) with Declaration
Address		Name
		Address
(a) Name		Name
(c) Name	+	
Address		Address
6) Inspector	Terry Urban	(c) Coal Lessee with Declaration
Address	P.O. Box 1207	Name
(144/444)	Clendenin, WV 25045	Address
Telephone	304-549-5915	
reicphone		AMED ABOVE TAKE NOTICE THAT:
v Included is t		g contract or contracts by which I hold the right to extract oil and gas
Normal No	he lease or leases of other continuin	g contract of contracts by which i hold the right to extract on and gas
Included is t	he information required by Chanter 3	22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)
		6 of the West Virginia Code I have served copies of this notice and
		nents pages 1 through on the above named parties by:
application, a loc	Description (ACC) and all all	
<u> </u>	Certified Mail (Postmarked po	
-	Publication (Notice of Publicat	
I have re		nd 35 CSR 4, and I agree to the terms and conditions of any permit
issued under this		
I certify	under penalty of law that I have per	rsonally examined and am familiar with the information submitted on
this application f	form and all attachments, and that t	pased on my inquiry of those individuals immediately responsible for
obtaining the info	ormation, I believe that the information	on is true, accurate and complete.
I am awa	are that there are significant penaltie	es for submitting false information, including the possibility of fine and
imprisonment.		a
		or Shale Gas Production, LLC
	Ву	
	CHICIAL SEAL Its	1114011-0-011111-1111-1111-1111-1111-11
O CHILD	NOTARY PUBLIC Address	
	HC 75 Box 410	Spencer, WV 25276
		304-927-5228
سسسا	, & Emai	ddouglass@reserveoilandgas.com
Subscribed and	sworn before me this day	of August 1000 Neu
Warrel	1. 1 Trannon	Notary Public
Mý Commission	Expires Memby 10,	2017 4 2014
Oll and Gas Privacy	Notice	AUG 4 Lov.

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 of 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 DER's Chief Privacy Officer 18/22/2014

WW-70 Rev. 7/01

#### Affidavit of Personal Service

State Of West Virginia County Of Kanawha
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.   W Bailey # 3 located in Union District, Kanawha County, West Virginia, upon the person or organization named
Michelle Bailey (in person and also via Cansel Dave memahan)by delivering the same in Kanawha County, State of west Viginia on the 31st day of July , 2014 in the manner specified below.
[COMPLETE THE APPROPRIATE SECTION]
For an individual:  [X ] Handing it to him / 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, or, because the general partner refused to take it when I tried to hand it over, by leaving it in the presence of the general partner.
For a corporation: [ ] Handing it to the corporation's employee/ officer/ director/ attorney in fact/ named
(Signature of person executing service)
My commission expires Weember 10, 2017  My commission expires Weember 10, 2017  Marie N. Brannon
(AFFIX SEAL IF NOTARIZED OUTSIDE THE STATE)
Received STATE OF MOTARIZED OUTSIDE THE STATE)  OHICAL SEAL STATE OF MEST MISSIMA NOTARY PUBLIC David N. Brandon HC 75 Box 410 Chica. WY 25235 My Commusion Expres December 16, 2017  AUG 2  ON and Cas Projection
MV Dept. of Environmental Protection  08/22
W Dopt. 01 2

#### COAL OPERATOR, OWNER, OR LESSEE WAIVER

Operator Shale Gas Production, LLC	Operator's Well Number	HW Bailey #3
INSTRUCTIONS TO C	OAL OPERATOR, OWN	ER, OR LESSEE
To the coal operator, owner, or leany objection you wish to make or are rewith the Chief of the Office of Oil and Goby the Office. Mail objections to:	equired to make by WV Co	N2-A. You are hereby notified that ode 22-6-15, 16 or 17, must be filed after the receipt of this application
Chief, Office of Oil and Gas Department of Environmental Protection 601 57 <sup>th</sup> St. SE Charleston, WV 25304		
(304) 926-0499 extension 1654		
	WAIVER	
location has examined this proposed wellocation, the well location has been adde work proposed to be done at this location requirements of the West Virginia Code a	ed to the mine map. The tank of the tank of the mine map. The tank of the mine map. The tank of the governing regulations and the governing regulations.	undersigned has no objection to the ator has complied with all applicable ons.
FOR EXECUTION BY A NATURAL PERSON		ECUTION BY A CORPORATION, ETC.
Date	Company Name	
Signature	By	Date
	Si	gnature Date
. 1	V	, owner, or lessee

of workable coalbed/scam on this tract.

Received

AUG 4 2014

Office of Oil and Gas
Ostrophic of Environmental Protection
08/22/2014

Operator's Well Number HW Bailey #3

## 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(Assignment)	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

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 authority before the affected activity is initiated.

Well Operator: By:Its: ale Gas Production, LLC

Managing Member

1105 4 DUA

Office of Oil and Gas
Office of Oil and Gas
Office of Environ 08/22/2014

	Page	of
API Number 47 -39	-2747	
Operator's Well	No. HW Bailey #3	

## 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	
	10) Sugarcamp Branch of Lmes	stone Branch Quadr	ingle Pocatalico	
Elevation 829	Count	ty_Kanawha	District Union	
Do you anticipate	e using more than 5,000 bbls of v	vater to complete the prop	osed well work? Yes ?	No x
	ease describe anticipated pit was		gs, fresh water	
			If so, what ml.? 20	
	d Disposal Method For Treated I			
	Reuse (at API Number Off Site Disposal (Sur	r pply form WW-9 for dispe	sal location)	
Will closed loop	system be used? N/A			
Drilling medium	anticipated for this well? Air, fr	eshwater, oil based, etc. a	ir	
-If oil ba	ased, what type? Synthetic, petro	oleum, etc		
Drill cuttings disp	posal method? Leave in pit, land	Ifill, removed offsite, etc.	Leave in pit	
-If left is	n pit and plan to solidify what m	edium will be used? (cerr	ent, lime, sawdust) Soil/Dirt	
	어떤 아이에 가지 않아요 아이들이 나를 보다면 하는 사람이 되었다.			
on August 1, 200 provisions of the law or regulation I certify application form obtaining the int penalties for subi Company Officia	5, by the Office of Oil and Gas of permit are enforceable by law. can lead to enforcement action. The under penalty of law that I has and all attachments thereto a formation, I believe that the infinitting false information, including	of the West Virginia Depa Violations of any term of ave personally examined and that, based on my in formation is true, accurating the possibility of fine of	f the GENERAL WATER POLLU rtment of Environmental Protection or condition of the general permit a and am familiar with the informa quiry of those individuals immed e, and complete. I am aware the or imprisonment.	n. I understand that the and/or other applicable tion submitted on this diately responsible for
sample Control			VI.	VOC: V 5074
Subscribed and s	worn before me this 1 st	day of ungus	, 20 14 Notary Public	Oil 2nd Gas Oil 2nd Gas OFICIAL SEAL STATE OF WEST VIRGINI
My commission	expires Accemby	10, 2017	W	NOTARY PUBLIC David N. Brannon 08/22/201

rom ww-y		Operator's W	ell No. HW Baile
Proposed Revegetation Treatment: Acres Disturbed	1.5	Prevegetation pH	5.5
Lime 3 Tons/acre or to co			
Fertilizer (10-20-20 or equivalent) 0.25	lbs/acre (500 lbs n	ninimum)	
Mulch Hay 2	Tons/acre		
Mulch			
	Seed Mixtures		
Area I Seed Type lbs/acre		Are Seed Type	a II lbs/acre
Orchard Grass 25	Ladino	• •	5
Red Top Clover 15	KY 31		40
Plan Approved by: New Comments:			
Title: Inspect DCCes	Date:	7-1-14	
'	() No		<sub>leceive</sub>

DUA Office of Oil and Gas
Office of Oil and Gas
W Dept. ol Environmental Protection 08/22/2014

4 2014

HW BAILEY

#3

#### NOTE:

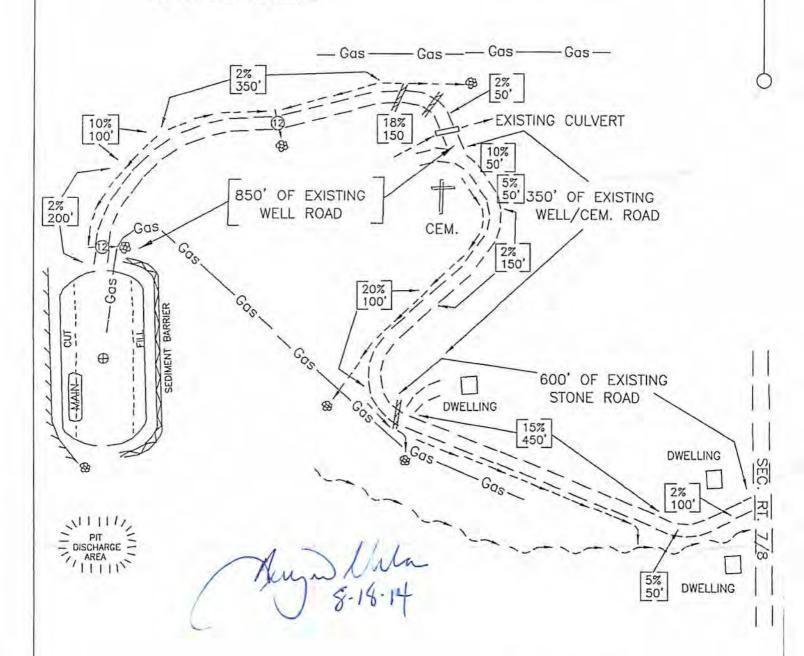
Any Trees 6" or larger in Diameter will be cut and piled. Brush will be used as Sediment Barriers.

Tempory seed and mulch all slopes upon construction.

Stone over all Culverts and entrance off existing roadway.

#### NOTE:

PIT SIZE: 25'X80' 1/-LOCATION SIZE: 100'X200' 1/-



## Received

AUG 1 9 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

