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**west virginia** department of environmental protection

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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

February 25, 2014

**WELL WORK PERMIT**

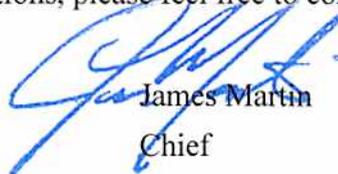
**Re-Work**

This permit, API Well Number: 47-3902736, 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: C.E. BAILEY #2  
Farm Name: JONES, RALPH D.  
**API Well Number: 47-3902736**  
**Permit Type: Re-Work**  
Date Issued: 02/25/2014

**Promoting a healthy environment.**

## 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

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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 within 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.

WW - 2B  
(Rev. 8/10)

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

1) Well Operator: Shale Gas Production, LLC      39      09      290  

	494508232	Kanawha	Union	Charleston, W.V.
	Operator ID	County	District	Quadrangle

2) Operator's Well Number: CE Bailey #2      3) Elevation: 846

4) Well Type: (a) Oil \_\_\_\_\_ or Gas x \_\_\_\_\_  
 (b) If Gas: Production x / Underground Storage \_\_\_\_\_  
 Deep \_\_\_\_\_ / Shallow x \_\_\_\_\_

5) Proposed Target Formation(s): Brown Shale      Proposed Target Depth: 4223

6) Proposed Total Depth: 4223 Feet      Formation at Proposed Total Depth: Brown Shale

7) Approximate fresh water strata depths: Existing well- See Attached

8) Approximate salt water depths: Existing well- See Attached

9) Approximate coal seam depths: Existing well

10) Approximate void depths, (coal, Karst, other): Existing well

11) Does land contain coal seams tributary to active mine? None Known

12) Describe proposed well work and fracturing methods in detail (attach additional sheets if needed)  
Remove existing 2 3/8" tubing. Clean Out Well using 6 1/2" bit to original TD. Install & Cement 4 1/2" Casing. Nitrogen Gas Frac.  
Original well drilled & shot in 1976. Has existing 9 5/8" and 7" Casing (See attached well record)

13) **CASING AND TUBING PROGRAM**

TYPE	SPECIFICATIONS			FOOTAGE	INTERVALS	CEMENT
	Size	Grade	Weight per ft			
Conductor						
Fresh Water	9 5/8"	H-40	32#	229	Existing	CTS
Coal						
Intermediate	7"	K-55	20#	2415	Existing	150 sks
Production	4.5"			4218	New	120 sks
Tubing	2 3/8"	J-55	4.6#	4218	Existing	
Liners						

*Handwritten signature and date: Aug 20 2-18-14*

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FEB 21 2014

Packers: Kind: Original Packers Have Been Removed  
 Sizes: \_\_\_\_\_  
 Depths Set \_\_\_\_\_

WV Department of  
Environmental Protection



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Rotary  Oil \_\_\_\_\_  
 Cable \_\_\_\_\_ Gas   
 Recycling \_\_\_\_\_ Comb. \_\_\_\_\_  
 Water Flood \_\_\_\_\_ Storage \_\_\_\_\_  
 Disposal \_\_\_\_\_ (Kind) \_\_\_\_\_

Quadrangle Charleston N.W.

Permit No. \_\_\_\_\_

Company Ajax Pipe Line Company  
 Address Po Box 6190 Charleston W.Va  
 Farm C.E. Bailey et al Acres 49  
 Location (waters) Lime Stone Branch  
 Well No. 2 Elev. 846.01  
 District Union County Kanawha

The surface of tract is owned in fee by \_\_\_\_\_  
C.E. Bailey et al

Address 940 6th Ave Charleston W.Va  
 Mineral rights are owned by Same  
 Address \_\_\_\_\_

Drilling Commenced 4/19/76  
 Drilling Completed 5/6/76  
 Initial open flow 30,000 cu. ft. \_\_\_\_\_ bbls.  
 Final production 80,000 cu. ft. per day \_\_\_\_\_ bbls.  
 Well open \_\_\_\_\_ hrs. before test 410# RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10"			
9 5/8 32#	229	229	Surface
8 5/8			
7 20#	2415	2415	
5 1/2			
4 1/2			
3			
2 4.60#		4218	
Liners Used			

Well treatment details:

Attach copy of cementing record.

? shot 1235 with 8200# 30% Gell

Coal was encountered at 210' Feet 8" Inches  
 Fresh water 93' Feet 1447' Feet  
 Producing Sand Brown Shale Depth \_\_\_\_\_

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Top Soil			0	15		
Red Rock			15	90		
Sand			90	95	Fresh water	
Red Rock			95	275		
Gray Slate			275	325		
Sand #25			325	375		
Sand, Slate			375	505		
Slate, Gray			505	1270		
Salt Sand			1270	1500		
Sand 15			1500	1702		
Big Lime			1702	1860		
Big Injun			1871	1925		
Slate, Sand			1925	2260		
Berea			2260	2275	Gas & Oil	
Chell			2275	2450		
Sand, Shale			2450	3088		
Brown Shale			3088	4200	Gas	
Black Shale			4200	4209		
Shale			4209	4223	T.D.	

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 FEB 21 2014  
 WV Department of  
 Environmental Protection

(over)

\* Indicates Electric Log tops in the remarks section.

3902736R  
C K 1011  
6520

1.) Date: \_\_\_\_\_  
2.) Operator's Well Number CE Bailey 2  
State 47- County \_\_\_\_\_ Permit \_\_\_\_\_  
3.) API Well No.: 47- 39- 2736

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

4) Surface Owner(s) to be served:  
(a) Name Ralph D. Jones & Natalie A. Jones W  
Address 2711 Main St.  
Hurricane, WV 25526  
(b) Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_  
6) Inspector Terry Urban  
Address P.O. Box 1207  
Clendenin, WV 25045  
Telephone 304-549-5915

5) (a) Coal Operator  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
(b) Coal Owner(s) with Declaration  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Coal Lessee with Declaration  
Name \_\_\_\_\_  
Address \_\_\_\_\_

**TO THE PERSONS NAMED ABOVE TAKE NOTICE THAT:**

Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas  
OR

\_\_\_\_\_ Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

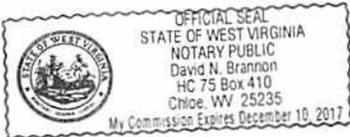
I certify that as required under Chapter 22-6 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through \_\_\_\_\_ on the above named parties by:

- Personal Service (Affidavit attached)
- Certified Mail (Postmarked postal receipt attached)
- Publication (Notice of Publication attached)

I have read and understand Chapter 22-6 and 35 CSR 4, and I agree to the terms and conditions of any permit issued under this application.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.



Well Operator Shale Gas Production, LLC  
By: [Signature]  
Its: Managing Member  
Address 929 Charleston Road  
Spencer, WV 25276  
Telephone 304-927-5228

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Office of Oil and Gas

FEB 21 2014

Subscribed and sworn before me this 14<sup>th</sup> day of February, 2014

David N. Brannon Notary Public  
My Commission Expires December 10, 2017

Oil and Gas Privacy Notice  
WV Department of Environmental Protection

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 at [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov)

WW-2A Surface Waiver

SURFACE OWNER WAIVER

County Kanawha Operator Shale Gas Production, LLC
Operator well number CE Bailey 2

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW2-A

The well operator named on page WW2A is applying for a permit from the State to do oil or gas well work. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

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

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

Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have FIFTEEN (15) DAYS after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure a adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

- The Chief has the power to deny or condition a well work permit based on comments on the following grounds:
1) The proposed well work will constitute a hazard to the safety of persons.
2) The soil erosion and sediment control plan is not adequate or effective;
3) Damage would occur to publicly owned lands or resources;
4) The proposed well work fails to protect fresh water sources or supplies;
5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation...

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

List of Water Testing Laboratories. The Office maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Chief to obtain a copy.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application for a Well Work Permit on Form WW2-A, and attachments consisting of pages 1 through 204 including a work order on Form WW2-B, a survey plat, and a soil and erosion plan, all for proposed well work on my surface land as described therein.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERSON

FOR EXECUTION BY A CORPORATION, ETC.

Ralph Jones
Signature

Date 2-21-14

Company Name
By
Its Date

Ralph Jones

Print Name

Signature

Date

Received
FEB 21 2014
Office of Oil and Gas
Dept. of Environmental Protection

WW-2A Coal Waiver

COAL OPERATOR, OWNER, OR LESSEE WAIVER

County Kanawha  
Operator Shale Gas Production LLC Operator's Well Number CE Bailey 2

INSTRUCTIONS TO COAL OPERATOR, OWNER, OR LESSEE

To the coal operator, owner, or lessee named on page WW2-A. You are hereby notified that any objection you wish to make or are required to make by WV Code 22-6-15, 16 or 17, must be filed with the Chief of the Office of Oil and Gas within fifteen (15) days after the receipt of this application by the Office. Mail objections to:

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

The undersigned coal operator \_\_\_\_\_ / owner \_\_\_\_\_ / lessee \_\_\_\_\_ / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

FOR EXECUTION BY A NATURAL PERSON

FOR EXECUTION BY A CORPORATION, ETC.

_____	Date _____	Company Name _____	_____
Signature		By _____	_____
		Its _____	Date _____
		Signature _____	Date _____

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No known owner, operator or lessee of workable coal seam on this tract  
WV Department of Environmental Protection

WW-2A1  
(Rev. 1/11)

Operator's Well Number CE Bailey 2

**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
Charles E. Bailey, et. al.	Shale Gas Company	1/8	LB 195/476
Shale Gas Company	Shale Gas Production, LLC	same	AB 242/323

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FEB 25 2014

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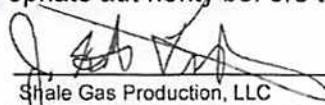
**Acknowledgement of Possible Permitting/Approval  
In Addition to the Office of Oil and Gas**

The permit applicant for the proposed well work addressed in this application hereby acknowledges 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 acquired from the appropriate authority before the affected activity is initiated.

Well Operator:  
By: Its:

  
 \_\_\_\_\_  
 Shale Gas Production, LLC  
 \_\_\_\_\_  
 Managing Member

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) Limestone Br. Of Fisher Br. of Rocky Fk. Quadrangle Pocatalico

Elevation 868 County Kanawha District Union

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes \_\_\_\_\_ No x

Will a pit be used for drill cuttings? Yes \_\_\_\_\_ No x

If so, please describe anticipated pit waste: fresh water

Will a synthetic liner be used in the pit? Yes x No \_\_\_\_\_ If so, what ml.? 20

Proposed Disposal Method For Treated Pit Wastes:

- \_\_\_\_\_ Land Application
- \_\_\_\_\_ Underground Injection ( UIC Permit Number \_\_\_\_\_ )
- Reuse (at API Number \_\_\_\_\_ )
- \_\_\_\_\_ Off Site Disposal (Supply form WW-9 for disposal location)
- \_\_\_\_\_ Other (Explain \_\_\_\_\_)

Will closed loop system be used? N/A

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. Air

-If oil based, what type? Synthetic, petroleum, etc.

Additives to be used in drilling medium? \_\_\_\_\_

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Leave in pit, no drill cuttings anticipated

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) Soil/dirt

-Landfill or offsite name/permit number? \_\_\_\_\_

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature J. Scott Freshwater

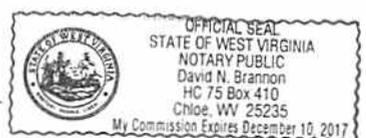
Company Official (Typed Name) J. Scott Freshwater

Company Official Title Managing Member

Subscribed and sworn before me this 14<sup>th</sup> day of February, 20 14

David N. Brannon Notary Public

My commission expires December 10, 2017



LEGEND

- Property Boundary
- Road
- Existing Fence
- Planned Fence
- Stream
- Open Ditch
- Rock
- North
- Buildings
- Water Well
- Drill Site

- Diversion
- Spring
- Wet Spot
- Drain Pipe with size in inches
- Waterway
- Cross Drain
- Artificial Filter Strip
- Pit: cut walls
- Pit: compacted fill walls
- Area for Land Application of Pit Waste

Proposed Revegetation Treatment: Acres Disturbed 1.5 Prevegetation pH 5.5

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20 or equivalent) 0.25 lbs/acre (500 lbs minimum)

Mulch HAY 2 Tons/acre

— Seed Mixtures —

Area I	
Seed Type	lbs/acre
Orchard Grass	25
Red Top Clover	15

Area II	
Seed Type	lbs/acre
Ladino Clover	5
Ky 31	40

Attach:  
Drawing(s) of road, location, pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: *[Signature]*

Comments: \_\_\_\_\_

Title: *Inspector Oil & Gas*

Date: 2-18-14 FEB 21 2014

Field Reviewed?  Yes  No

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**NOTE:**

Any Trees 6" or larger in Diameter will be cut and piled. Brush will be used as Sediment Barriers. Temporary seed and mulch all slopes upon construction. Stone over all Culverts and entrance off existing roadway.

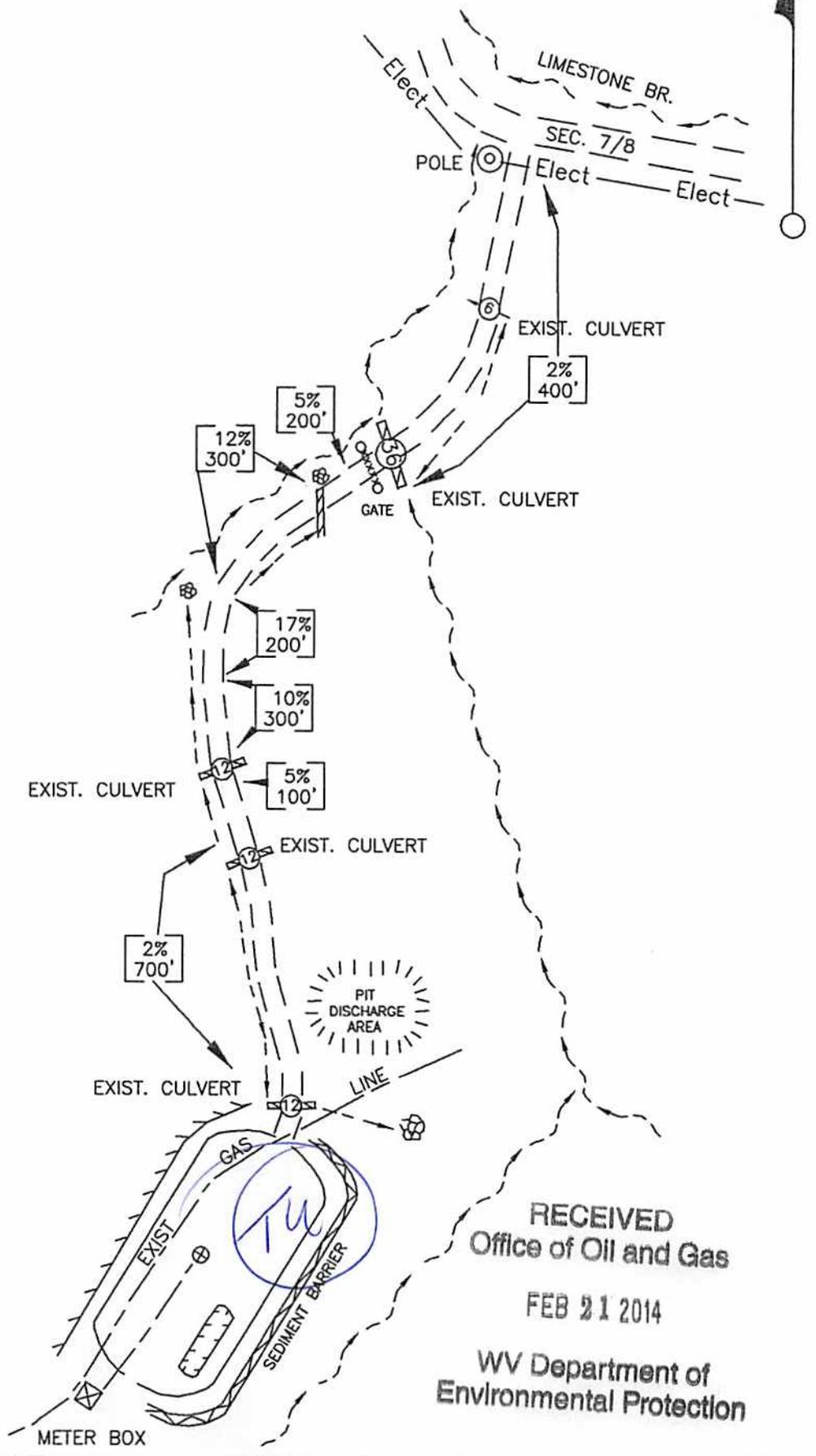
C.E. BAILEY  
#2

**NOTE:**

PIT SIZE: 25'X80' 7/8  
LOCATION SIZE: 100'X200' 7/8

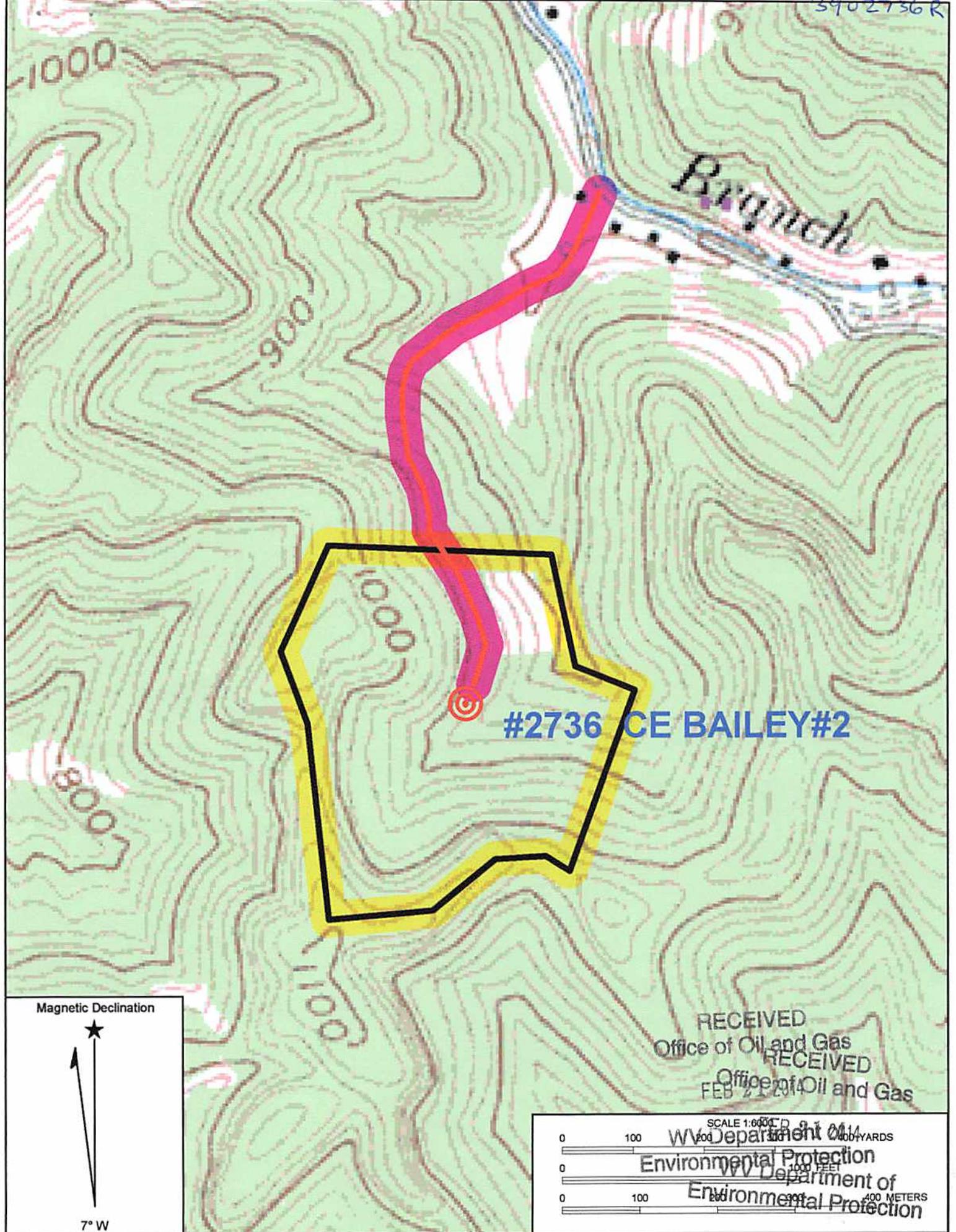
**NOTE:**

ALL WELL ROAD SHOWN IS EXISTING AND WILL BE UPGRADED AND MAINTAINED.



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3902736 R

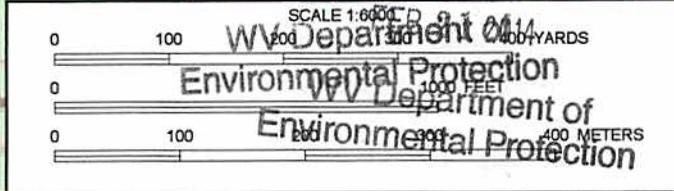


Magnetic Declination



7° W

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FEB 2 2014



UTM NAD.83  
 ZONE 17  
 0437680E  
 4253021N

NAD 83  
 LAT. 38.4232757N  
 LONG. 81.7139329W

STATE PLANE COOR.  
 NAD 83  
 N 519,055  
 E 1,763,973

LATITUDE 38°27'30"  
 ROAD INTERSECTION  
 LIMESTONE BRANCH  
 SEC. 7/8

LONGITUDE 81°42'30"  
 12,700'

NORTH

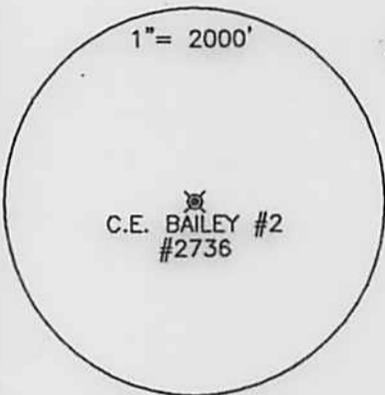
GARY B. GRIGSBY  
 2824/3  
 TM 23 PAR 72

ILA JEAN ANDERSON  
 M28/644  
 TM 23  
 PAR 77

RALPH D. JONES  
 2739/380  
 TRACT 2  
 TM 23 PAR 78

JOYSE A. PAYNE  
 WB 662/39  
 TM 24 PAR 31

C.E. BAILEY #2



C.E. BAILEY #2  
 #2736

DREMA JETT  
 2830/682  
 TM 23 PAR 110

RODNEY LOFTIS  
 2740/476  
 TM 24 PAR 34



TOPO LOC

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. \_\_\_\_\_  
 DRAWING NO. 14-1  
 SCALE 1"=400'  
 MINIMUM DEGREE OF ACCURACY 1 IN 200  
 PROVEN SOURCE OF ELEVATION GPS

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT 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 DEPARTMENT OF ENERGY.  
 (SIGNED) \_\_\_\_\_  
 R.P.E. \_\_\_\_\_ P.S. 851



STATE OF WEST VIRGINIA  
 Department of Environmental Protection  
 OFFICE OF OIL AND GAS

DATE 2/23, 2014  
 OPERATOR'S WELL NO. BAILEY 2  
 OFFICE NO. and Gas  
 47-039-02736R  
 STATE COUNTY PERMIT

WELL TYPE: OIL \_\_\_ GAS  LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS") PRODUCTION  STORAGE \_\_\_ DEEP \_\_\_ SHALLOW   
 LOCATION: ELEVATION 868 WATER SHED LIMESTONE BR. OF FISHER BR. OF ROCKY FORK OF POCATALICO RIVER  
 DISTRICT UNION COUNTY KANAWHA  
 QUADRANGLE POCATALICO

SURFACE OWNER RALPH D. JONES ACREAGE 49  
 OIL & GAS ROYALTY OWNER C.E. BAILEY JR., ETAL LEASE ACREAGE 49  
 LEASE NO. \_\_\_\_\_

PROPOSED WORK: DRILL \_\_\_ CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR  
 STIMULATE  PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW  
 FORMATION \_\_\_ OTHER PHSYSICAL CHANGE IN WELL (SPECIFY): PULL TUBING & INSTALL 4 1/2"

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION BROWN SHALE ESTIMATED DEPTH 4223  
 WELL OPERATOR Shale Gas Production LLC DESIGNATED AGENT J. SCOTT FRESHWATER  
 ADDRESS 929 CHARLESTON ROAD ADDRESS 929 CHARLESTON ROAD  
 SPENCER, WV 25276 SPENCER, WV 25276