



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

February 18, 2014

WELL WORK PERMIT

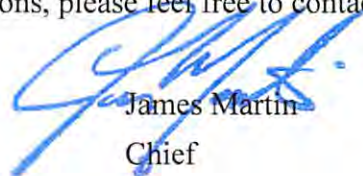
Re-Work

This permit, API Well Number: 47-3902160, issued to VIKING ENERGY CORPORATION, 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: CASSIE BAILEY #1 (9747)
Farm Name: BAILEY, CLAY & LESLIE
API Well Number: 47-3902160
Permit Type: Re-Work
Date Issued: 02/18/2014

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: Viking Energy, Inc 51440 Kanawha Union Pocatalico
Operator ID County District Quadrangle

2) Operator's Well Number: C Bailey #1 3) Elevation: 650.40

4) Well Type: (a) Oil _____ or Gas X
(b) If Gas: Production X / Underground Storage _____
Deep X / Shallow _____

5) Proposed Target Formation(s): Oriskany Proposed Target Depth: 5320'
6) Proposed Total Depth: 5422 Feet Formation at Proposed Total Depth: Newberg
7) Approximate fresh water strata depths: 140'
8) Approximate salt water depths: 1,600'

9) Approximate coal seam depths: None of record

10) Approximate void depths,(coal, Karst, other): _____

11) Does land contain coal seams tributary to active mine? No

12) Describe proposed well work and fracturing methods in detail (attach additional sheets if needed)
Plug the Newberg formation, perforate and Frac the Oriskany formation. SEE NARRATIVE.

13) **CASING AND TUBING PROGRAM**

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft	For Drilling	Left in Well	
Conductor	13 3/8			84'	84'	45 sacks <u>Existing</u>
Fresh Water	8 5/8			1777'	1777'	475 sacks <u>Existing</u>
Coal						
Intermediate	5 1/2			5327'	5327'	200 SACKS <u>EXISTING</u> <u>RECEIVED</u> Office of Oil and Gas
Production						
Tubing						
Liners						

[Signature]
10-3-13
WV Department of Environmental Protection
OCT 15 2013

Packers: Kind: _____
Sizes: _____
Depths Set _____

Narrative

PARTIAL PLUGGING PROCEDURE

Viking Energy Corp. is planning to stimulate the Oriskany zone in the Cassie Bailey #1 (API# 47-039-02160). We will plug off the depleted Newburg formation, which is approximately 500 ft. below the Oriskany formation. The top of the plug will set 100 ft. below the Oriskany and consist of cement and gel. The plug itself will be 100 ft. long. We will then perforate and inject nitrogen and a slurry gel mix into the formation at a maximum pressure of 3500 lbs psi. The stimulation is where you will see the pressures.

The Oriskany field in this area of Kanawha County, WV was drilled in the 1930's and 1940's. The US Geological Survey considers the Oriskany formation a depleted formation. Through Viking Energy's 25 years of experience in recompleting over 25 wells in the Oriskany formation and producing Oriskany wells, we are confident about how this formation performs.

The findings of all of Viking's recompletions in the Oriskany are all very similar. The formation pressure that we have encountered has never been above 400 lbs psi. Most of the wells pressure comes into 250 to 300 lbs psi. Attached, are maps showing the Cassie Bailey#1 and a buffer of 5 miles, 10 miles, and 20 miles. This shows where Viking Energy has recompleted these types of wells in the past. The results have been the same.

NEWBURG PLUGGING:

GEL BOTTOM OF WELL WITH A MINIMUM OF
6% BENTONITE (BY WEIGHT) MIXED WITH FRESH WATER.
SET A 100 FT CLASS A CEMENT PLUG WITH
NO MORE THAN 3% CaCl₂ AND NO OTHER ADDITIVES
TO A POINT 100 FEET BELOW THE ORISKANY.

JWM
2/17/2014

3902160R (DEEP)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Rotary
Spudder
Cable Tools
Storage

Quadrangle Charleston
Permit No. Kan. 2160

WELL RECORD

Oil or Gas Well Gas
(KIND)

Company J. L. Trittipo
Address Nelson Bldg. Charleston, West Va.
Farm Cassie B. Bailey (Unit) Acres 285
Location (waters) Pocatalico River
Well No. 1 Elev. 650.40
District Union County Kanawha
The surface of tract is owned in fee by C. B. Bailey
Charleston, West Virginia Address Box 10024
Mineral rights are owned by Same Address Same
Drilling commenced 8-24-67
Drilling completed 9-12-67
Date Shot From To
With

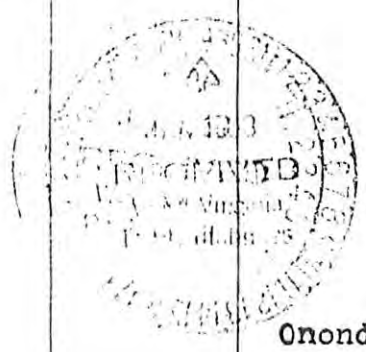
Casing and Tubing	Used In Drilling	Left In Well	Packers
Size			Kind of Packer
16			Cemented 45 sacks
13 3/8	84	84	Size of
10			Cemented 475 - sacks
8 1/4 5/8	1777	1777	Depth set
6 3/8			
5 3/16 1/2	5327	4327	
4 1/2			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

Open Flow /10ths Water in Inch
/10ths Merc. in Inch
Volume 8,600,000 Cu. Ft.
Rock Pressure 2040 psi lbs. 72 hrs.
Oil bbls. at 24 hrs.
WELL ACIDIZED (DETAILS)
WELL FRACTURED (DETAILS)

Attach copy of cementing record.
CASING CEMENTED 5 1/2 SIZE 1150 No. Fr 8-30-67 Date
Amount of cement used (bags) 200
Name of Service Co. Dowell
COAL WAS ENCOUNTERED AT FEET INCHES
FEET INCHES FEET INCHES
FEET INCHES FEET INCHES

RESULT AFTER TREATMENT (Initial open Flow or bbls.)
ROCK PRESSURE AFTER TREATMENT HOURS
Fresh Water 128 Feet Salt Water 1050 Feet
Producing Sand Newburg Depth 5416

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Sand & Shale			0	55			
Sand			55	83			
Sand & Shale			83	128	Water	120	
Shale & Sand			128	469			
Shaley Sand			469	528			
Shale			528	540			
Sand & Shale			540	1016			
Shale & Sand			1016	1053	Soft Water	1050	
Sand			1053	1462			
Shaley Sand			1462	1475			
Sand			1475	1512			
Shaley Sand			1512	1553			
Lime			1553	1625			
Shale			1625	1679			
Sand & Shale			1679	1777			
Shale			1777	2111			
Shale & Lime			2111	2451			
Shale			2451	4572			
Lime			4572	4950			
Lime & Dolomite			4950	5145			Onondaga
Lime			5145	5315	Gas		
Lime & Shale			5315	5345			
Lime			5345	5416	Gas		
Sand			5416	5422			
Total Depth			5422				



RECEIVED
Office of Oil and Gas
Newburg
02/21/2014
OCT 15 2013
WV Department of Environmental Protection

WW-2A
(Rev. 6-07)

1.) Date: October 15, 2013
2.) Operator's Well Number C. Bailey #1
State 47- County 039 Permit 02160
3.) API Well No.:

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: W

(a) Name Clay Bailey
Address 264 Cedar Cliff Lane
Charleston, WV 25312

(b) Name _____
Address _____

(c) Name _____
Address _____

5) (a) Coal Operator
Name None
Address _____

(b) Coal Owner(s) with Declaration W
Name Clay Bailey
Address 264 Cedar Cliff Lane
Charleston, WV 25312

(c) Coal Lessee with Declaration
Name None
Address _____

6) Inspector Terry Urban PO Box 1207
Address Charleston, WV Chandernant
25046
Telephone 304-549-5915

TO THE PERSONS NAMED ABOVE TAKE NOTICE THAT:

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

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 Viking Energy, Inc
By: Michael Pinkerton Michael Pinkerton
Its: President
Address P O Box 13366
Sissonville, WV 25360
Telephone 304-988-1161

Subscribed and sworn before me this 15 day of October Office of Oil and Gas

Notary Public 5 2013

My Commission Expires 9-8-2019

Oil and Gas Privacy Notice

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

WW-2A Surface Waiver

SURFACE OWNER WAIVER

County Kanawha

Operator Viking Energy, Inc

Operator well number C. Bailey #1

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 ___ 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.

Signature: Clay I. Bailey, Date: 10.12.13, Print Name: CLAY I. BAILEY

Company Name: RECEIVED Office of Oil and Gas, Date: OCT 15 2013, Signature: Department of Environmental Protection, Date: [blank]

WW-2A Coal Waiver

COAL OPERATOR, OWNER, OR LESSEE WAIVER

County Kanawha
Operator Viking Energy, Inc Operator's Well Number C. Bailey #1

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 57th St. SE
Charleston, WV 25304
(304) 926-0499 extension 1654

WAIVER

The undersigned coal operator _____ / owner X / 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.

C. Bailey Date 10.12.13
Signature

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

RECEIVED
Office of Oil and Gas

OCT 15 2013

WV Department of Environmental Protection
02/21/2014

WW-2A1
(Rev. 1/11)

Operator's Well Number C. 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
C B Bailey	United Fuel Gas Company	1/8	124/4
Columbia Gas Transmission Corp	Columbia Natural resources, Inc	Assignment	125/247
Columbia Natural resources, Inc	Viking Energy, Inc	Assignment	126/557


**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:


Viking Energy, Inc
Michael Pinkerton, President

RECEIVED
Office of Oil and Gas

OCT 15 2013

WV Department of
Environment **02/21/2014**

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Viking Energy, Inc OP Code 51440

Watershed (HUC 10) Pocatalico River Quadrangle Pocatalico

Elevation 650.40 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 X No _____

If so, please describe anticipated pit waste: Frac Water

Will a synthetic liner be used in the pit? Yes X No _____ If so, what ml.? 30 ml

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 _____)
- Michael Pinkerton*
10-3-13

Will closed loop system be used? No

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

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

Additives to be used in drilling medium? N/A

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. N/A

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

-Landfill or offsite name/permit number? N/A

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 Michael Pinkerton

Company Official (Typed Name) Michael Pinkerton

Company Official Title President

Subscribed and sworn before me this 15 day of October, 20 13

Michael Pinkerton Notary Public

My commission expires 9-8-2019



Form WW-9

Operator's Well No. C Bailey #1

Proposed Revegetation Treatment: Acres Disturbed _____ Prevegetation pH _____

Lime Three (3) Tons/acre or to correct to pH 6.5

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

Mulch 2 tons hay mulck Tons/acre

Seed Mixtures

Area I		Area II	
Seed Type	lbs/acre	Seed Type	lbs/acre
Orchard Grass	40#		
Perennial Rye	40#	SAME AS AREA #1	
Landine Clover	40#		

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

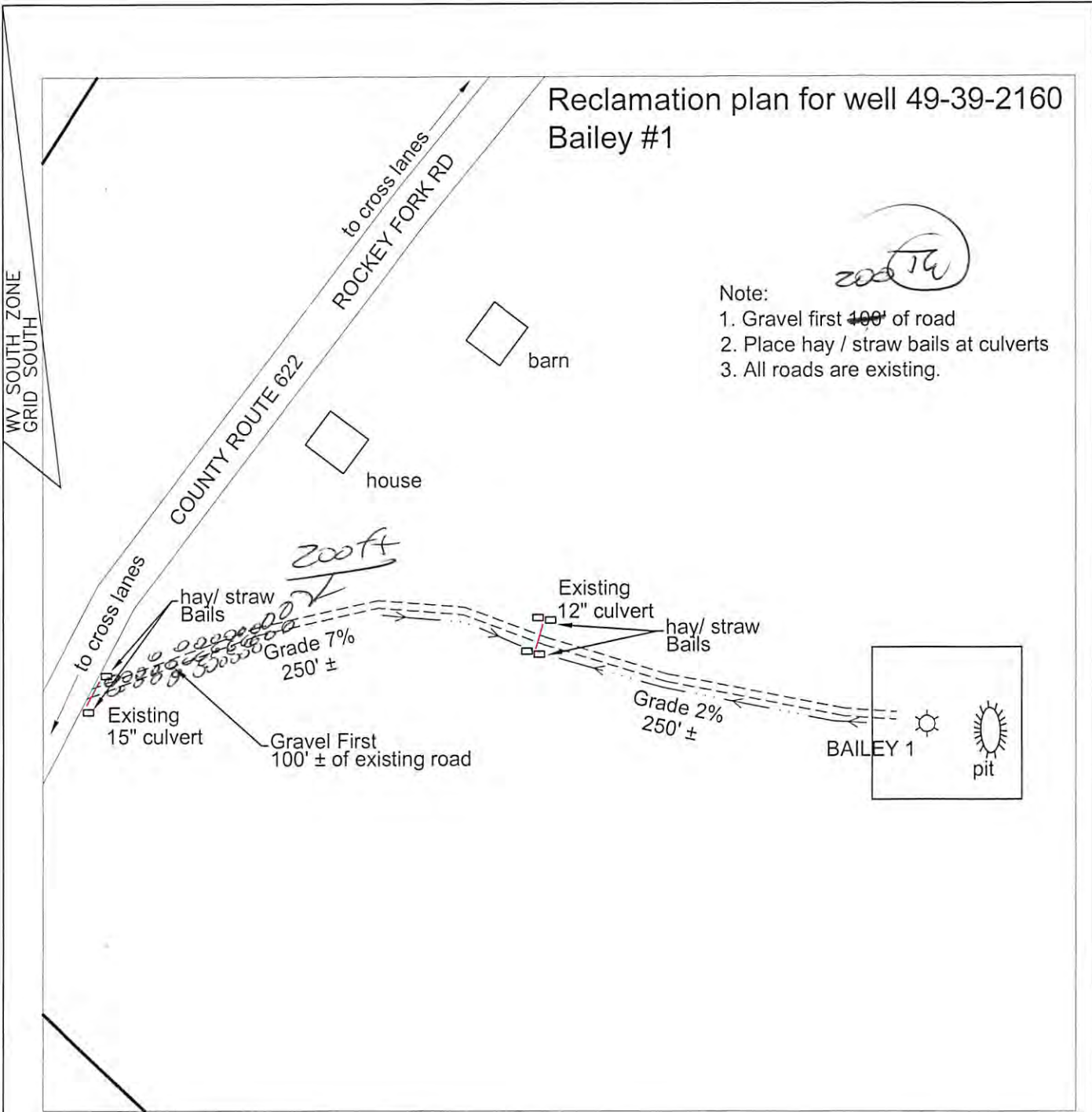
Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature]

Comments: Operator will use states BMP's for seed mix & erosion
will also back 200 ft from Highway

Title: Inspector Dale Coas Date: 10-3-13

Field Reviewed? Yes No



- Note:
1. Gravel first ~~100'~~ 400' of road
 2. Place hay / straw bails at culverts
 3. All roads are existing.

JEFFERY L. SNYDER PS 2238

JOB # 13-500-22-bailey
 DRAWING # 13-500-22
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY SUBMETER
 PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE 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 PERSCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.



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

White Brothers Consulting LLC
 447 call road suite 216
 Charleston, WV 25312

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 650 WATERSHED Waters of Pocatlico river DISTRICT Union COUNTY Kanawha

QUADRANGLE Pocatlico 7.5'

SURFACE OWNER Clay & Leslie Bailey ACREAGE 32.5 ACRES +/-

OIL & GAS ROYALTY OWNER Clay & Leslie Bailey LEASE ACREAGE 32.5 ACRES +/-

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE

STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG & ABANDON

CLEAN OUT & REPLUG OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

TARGET FORMATION ORISKANY SAND ESTIMATED DEPTH 5,345

WELL OPERATOR Viking Energy, Inc. DESIGNATED AGENT Michael Pinkerton

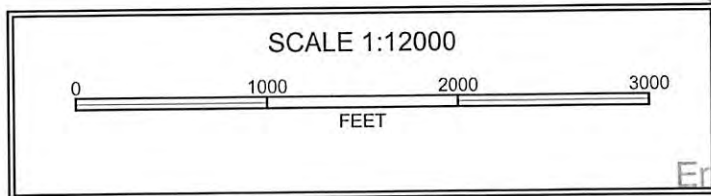
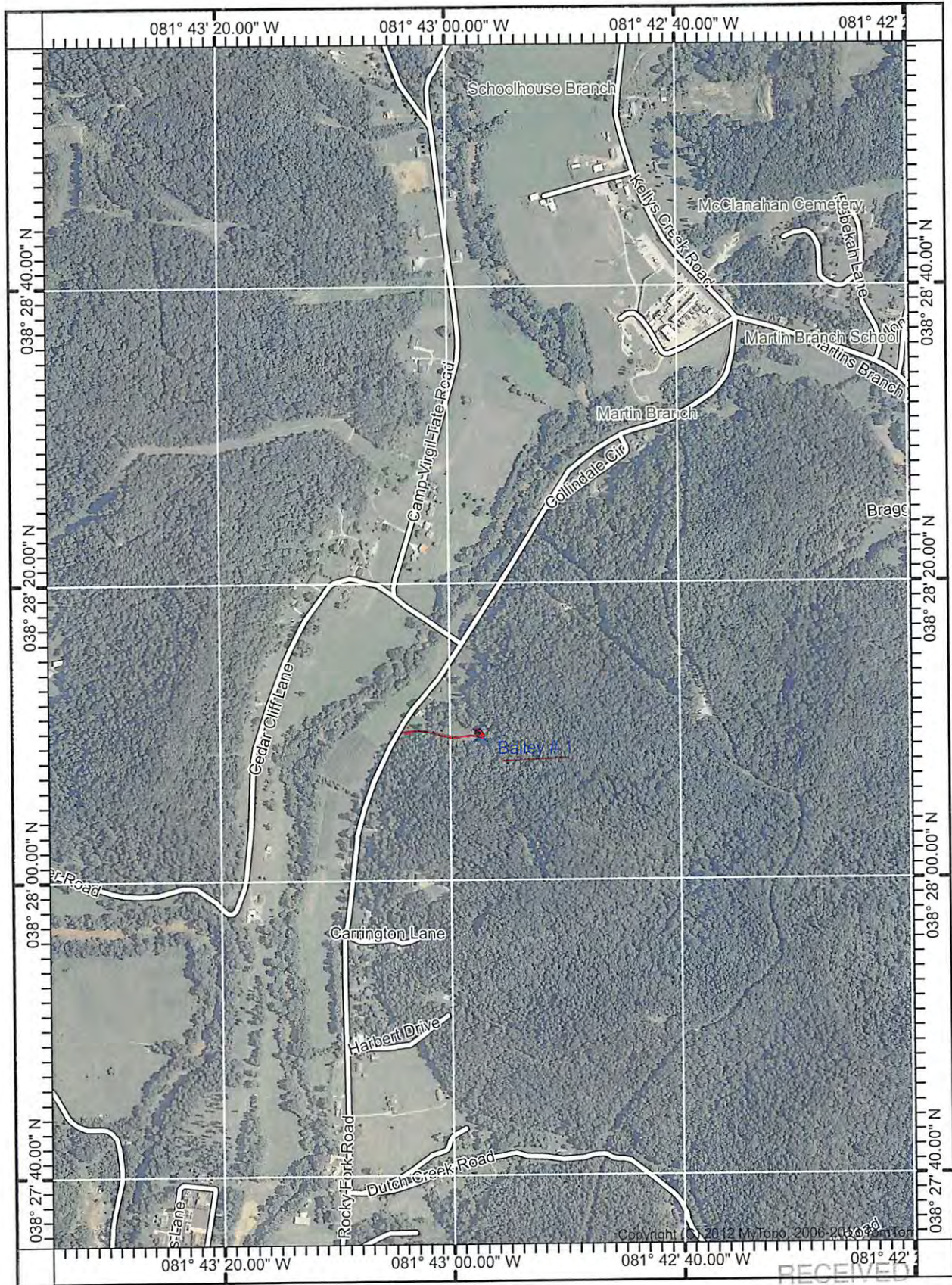
ADDRESS P.G. Box 13366 ADDRESS P.O. Box 13366

Sissonville, WV 25360 Sissonville, WV 25360

REFERENCES

SCALE
Jeffery L. Snyder PS #2238
DATE 9-19-13
OPERATOR'S WELL# Cassie Bailey
API WELL # 47 - 39 - 2160
STATE COUNTY PERMIT

RECORDED
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
 OCT 15 2013
 PERMIT

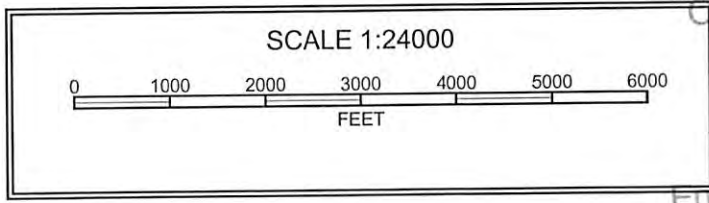
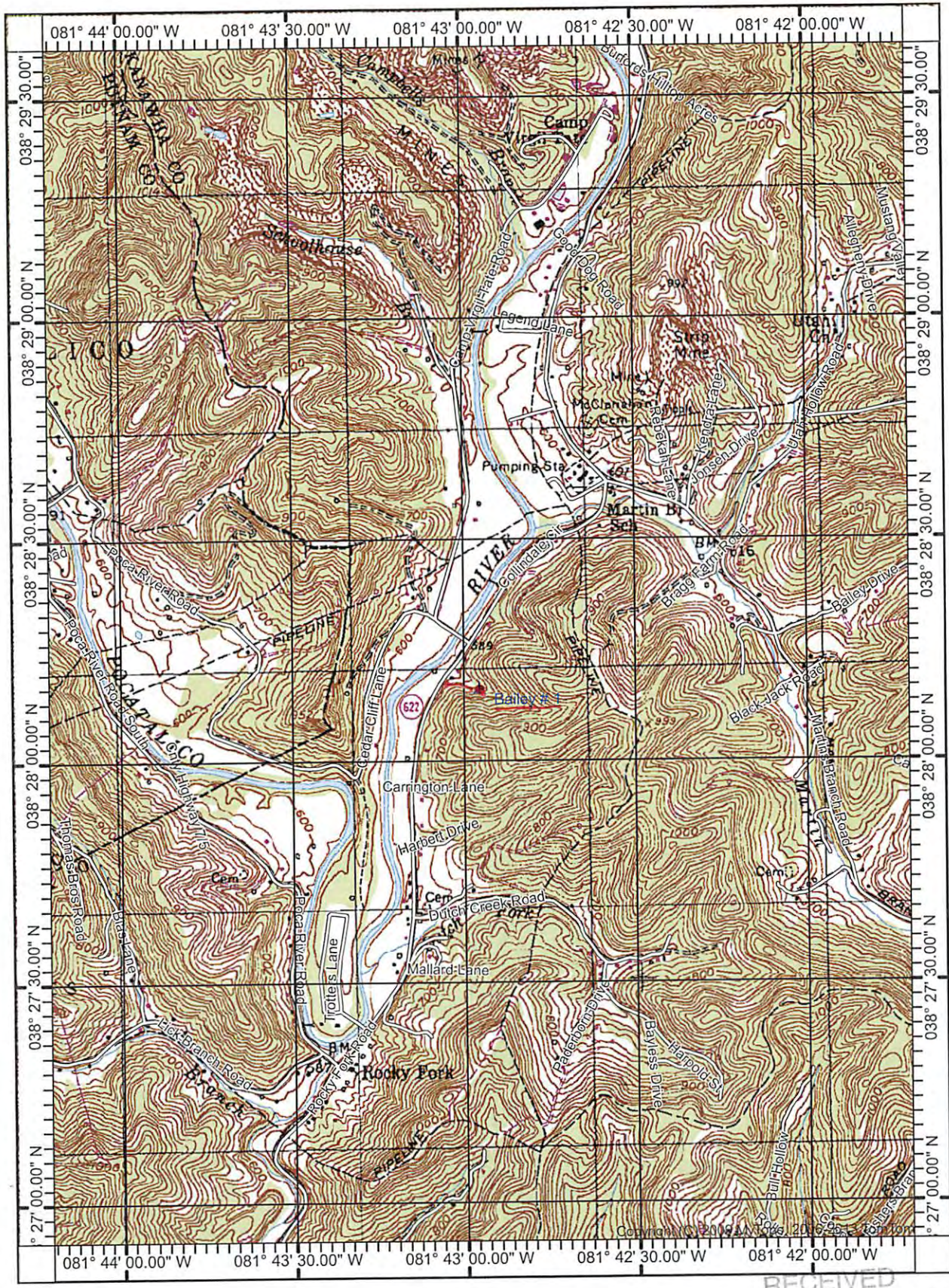


RECEIVED
Office of Oil and Gas

OCT 15 2013

WV Department of
Environmental Protection

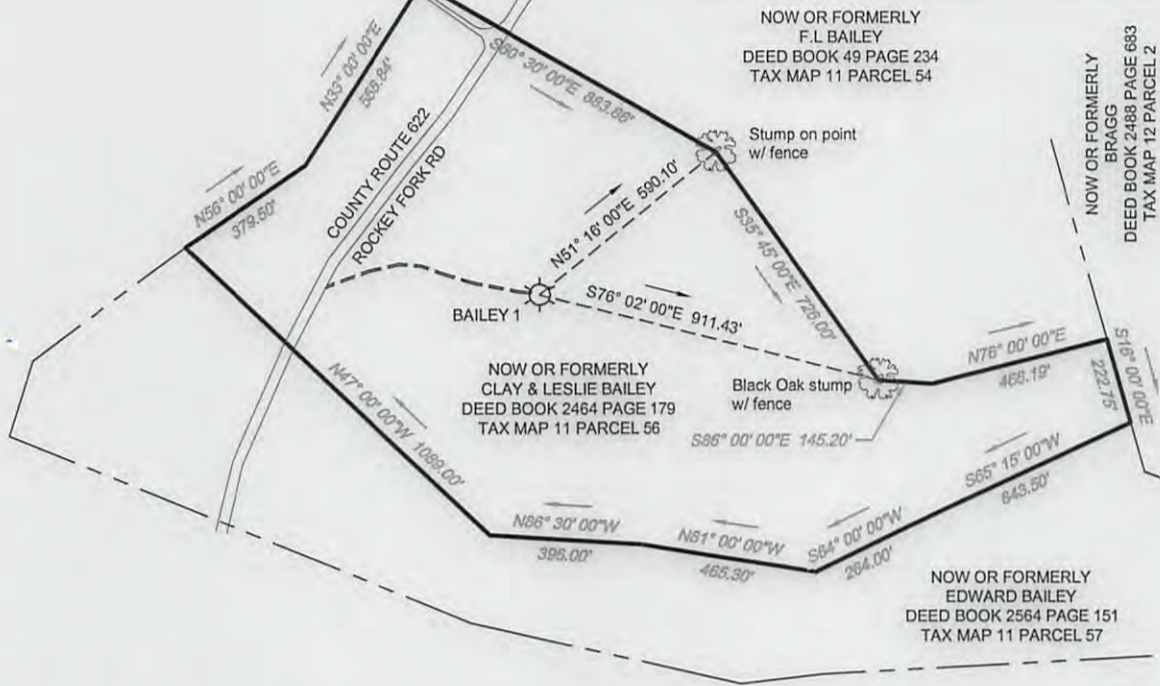
02/21/2014



RECEIVED
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WV Department of
Environmental Protection
02/21/2014

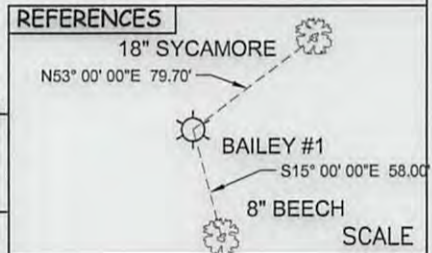
WV SOUTH ZONE GRID SOUTH

GEO. NAD 27 LAT. 38.4692176
GEO. NAD 27 LONG. 81.7160778
GEO. NAD 83 LAT. 38.4693106
GEO. NAD 83 LONG. 81.71592817
STATE PLANE 27 N 535778.891
STATE PLANE 27 E 1794983.661
STATE PLANE 83 N 535824.2061
STATE PLANE 83 E 1763531.9390
UTM -27 N 4257913.849
UTM -27 E 437531.024
UTM -83 N 4258130.836
UTM -83 E 437545.735



JEFFERY L. SNYDER PS 2238

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



Jeffery L. Snyder PS #2238

DATE 9-19-13

OPERATOR'S WELL# Cassie Bailey

API WELL # 47 - 39 - 02160 R

STATE COUNTY PERMIT

LOCATION: ELEVATION 650 WATERSHED Waters of Pocatalico river DISTRICT Union COUNTY Kanawha

QUADRANGLE Pocatalico 7.5'

SURFACE OWNER Clay & Leslie Bailey ACREAGE 32.5 ACRES +/-

OIL & GAS ROYALTY OWNER Clay & Leslie Bailey LEASE ACREAGE 32.5 ACRES +/-

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STIMULATE x PLUG OFF OLD FORMATION x PERFORATE NEW FORMATION PLUG & ABANDON

CLEAN OUT & REPLUG OTHER PHYSICAL CHANGE IN WELL (SPECIFY)

TARGET FORMATION ORISKANY SAND ESTIMATED DEPTH 5,345

WELL OPERATOR Viking Energy, Inc. DESIGNATED AGENT Michael Pinkerton

ADDRESS P.O. Box 13366 ADDRESS P.O. Box 13366

Sissonville, WV 25360 Sissonville, WV 25360



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

White Brothers Consulting LLC
447 call road suite 216
Charleston, WV 25312

JOB # 13-500-22- bailey
DRAWING # 13-500-22
SCALE 1" = 500'
MINIMUM DEGREE OF ACCURACY SUBMETER
PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE 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 PERSCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS

WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL (IF "GAS") PRODUCTION X STORAGE DEEP X SHALLOW LOCATION: ELEVATION 650 WATERSHED Waters of Pocatalico river DISTRICT Union COUNTY Kanawha

QUADRANGLE Pocatalico 7.5'
SURFACE OWNER Clay & Leslie Bailey ACREAGE 32.5 ACRES +/-
OIL & GAS ROYALTY OWNER Clay & Leslie Bailey LEASE ACREAGE 32.5 ACRES +/-
PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
STIMULATE x PLUG OFF OLD FORMATION x PERFORATE NEW FORMATION PLUG & ABANDON
CLEAN OUT & REPLUG OTHER PHYSICAL CHANGE IN WELL (SPECIFY)
TARGET FORMATION ORISKANY SAND ESTIMATED DEPTH 5,345
WELL OPERATOR Viking Energy, Inc. DESIGNATED AGENT Michael Pinkerton
ADDRESS P.O. Box 13366 ADDRESS P.O. Box 13366
Sissonville, WV 25360 Sissonville, WV 25360

02/21/2014