



**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 14, 2014

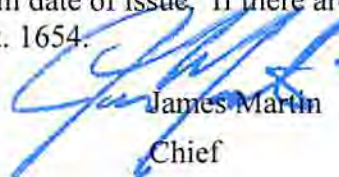
**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-3905143, issued to EQT PRODUCTION COMPANY, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.



James Martin  
Chief

Operator's Well No: 1-S-202751  
Farm Name: BRIAR MT. COAL CORP.  
**API Well Number: 47-3905143**  
**Permit Type: Plugging**  
Date Issued: 08/14/2014

Promoting a healthy environment.

08/15/2014

## 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

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1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
3. Well work activities shall not constitute a hazard to the safety of persons.

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

Date: 6-11-14  
Operator's Well  
Well No. 202751 Briar Mountain Unit #1  
API Well No.: 47 039 - 05143

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil  Gas  Liquid Injection  Waste Disposal:   
If Gas, Production  Or Underground storage  Deep  Shallow

5) Elevation: 2140 Watershed: Cabin Creek  
Location: Cabin Creek County: Kanawha Quadrangle: Elksdale 7.5  
District: \_\_\_\_\_

6) Well Operator EQT Production Company  
120 Professional Place  
Address: Bridgeport, WV 26330

7) Designated Agent: Rex C. Ray  
Address: 120 Professional Place  
Bridgeport, WV 26330

8) Oil & Gas Terry Urban  
Name: P.O. Box 1207  
Address: Clendenin WV 25045 544-5415

9) Plugging Contractor:  
Name: HydroCarbon Well Service  
Address: PO BOX 995  
Buckhannon, WV 26201

10) Work Order: The work order for the manner of plugging this well is as follows:  
See Attachment for details and procedures.

*Operator to Cement all Perforations, remove all free pipe*

OFFICE USE ONLY

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector [Signature] Date 6-16-14

PLUGGING PROGNOSIS

**Briar Mt.-EACC Coal Corp. 1-S (202751)**

Kanawha Co., West Virginia  
API # 47-039-05143  
District: Cabin Creek

BY: Craig Duckworth  
DATE: 2/19/14

**CURRENT STATUS:**

9 5/8" csg @ 265' cts  
7" csg @ 2217' cts  
4 1/2" csg @ 5686' 412 cu ft.

TD @ 5730'

Elevation @ 2138'

Fresh Water @ None Reported Salt Water @ 500'

Salt Sand @ 1550' Coal @ 145'-152'; 224'-230'; 254'-258'; 314'-317'; 336'-346'; 497'-

503'; 540'-545'; 638'-643'; 782'-786'; 904'-907'; 969'-972'; 991'-1000'

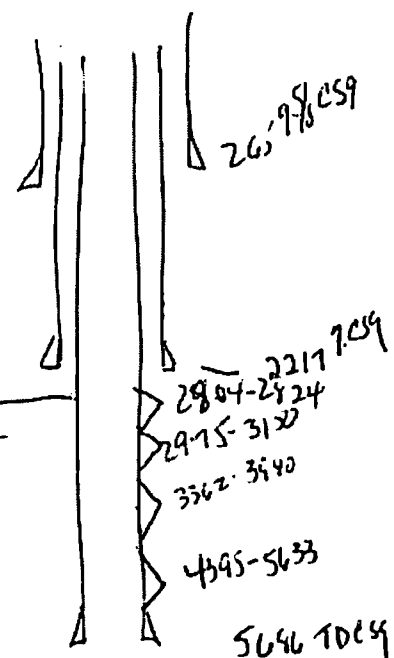
Gas shows @ 3354' (Weir) & 4714' (Shale)

Oil Shows @ None Reported

Stimulation: @ 4395'-5633' (Huron Shale); 3362'-3940' (Gordon, Berea, Weir); 2975'-3150' (Big Lime)

2804'-2824' (Maxon)

*Operator to  
come all perforation  
with cement plugs  
Will set 100'  
foot cement plug  
Elevation*



*No  
TOC*

1. Notify State Inspector, Terry Urban 304-549-5915, and 24 hrs prior to commencing operations.
2. TIH w/tbg @ 4395'; Set 100' C1A Cement Plug @ 4395' to 4295' (Huron)
3. TOOH w/tbg @ 4295'; Gel hole @ 4295' to 3362'
4. TOOH w/tbg @ 3362'; Set 100' C1A Cement Plug @ 3362' to 3262' (Gordon, Berea, Weir)
5. TOOH w/tbg @ 3262'; Gel hole @ 3262' to 2975'
6. TOOH w/tbg @ 2975'; Set 100' C1A Cement Plug @ 2975' to 2875' (Big Lime)
7. TOOH w/tbg @ 2875'; Gel hole @ 2875' to 2804'
8. TOOH w/tbg @ 2804'; Set 100' C1A Cement Plug @ 2804' to 2704' (Maxon)
9. TOOH w/tbg @ 2704'; Gel hole @ 2704' to 2267'
10. TOOH w/tbg and attempt to pull 4 1/2"; Freepoint 4 1/2", cut/shoot at free point.
11. TOOH w/4 1/2"
12. TIH w/tbg @ 2267' Set 100' C1A Cement Plug @ 2267' to 2167' (4 1/2" csg cut & 7" csg)
13. Set a 100' C1A Cement Plug 50' In/Out of cut. Perf all FW. Coal, Oil and Gas shows below 41/2" cut do not omit any plugs
14. TOOH w/tbg @ 2167'; Gel hole @ 2167' to 1550'
15. TOOH w/tbg @ 1550' Set 100' C1A Cement Plug @ 1550' to 1450' (Salt Sand @ 1550')
16. TOOH w/tbg @ 1450'; Gel hole @ 1450' to 1050'
17. TOOH w/tbg @ 1050'; Set 196' C1A Cement Plug @ 1050' to 854' (Coal @ 991'- 1000'; 969'- 972'; 904'-907')
18. TOOH w/tbg @ 854'; Gel hole @ 854' to 786'
19. TOOH w/tbg @ 786'; Set 339' C1A Cement Plug @ 786' to 447' (Coal @ 782-786'; 638'-643'; 540'-545'; 497'-503' & SW @ 500')
20. TOOH w/tbg @ 447'; Gel hole @ 447' to 346'
21. TOOH w/tbg @ 346'; Set 346' C1A Cement Plug @ 346' to 0' (Coal @ 346'-336'; 314'-317'; 254'-258'; 230'-224'; 145'-152' & 9 5/8" @ 265')
22. Top off as needed

*Craig Duckworth  
6-16-14*

- 23. Set Monument to WV-DEP Specifications
- 24. Reclaim Location & Road to WV-DEP Specifications

WR-35

202751

7-May-97

API # 47-

039-05143

State of West Virginia  
Division of Environmental Protection  
Section of Oil and Gas

Reviewed AS

Well Operator's Report of Well Work

Farm Name: BRIAR MT. - EACC COAL CORP.

Operator Well No.: 1-S-202751

LOCATION: Elevation: 2,138.00  
District: CABIN-CREEK  
Latitude: 11440  
Longitude: 10470

Quadrangle: ESKDALE  
County: KANAWHA  
Feet South of 38 DEG 05 MIN 00 SEC  
Feet West of 81 DEG 22 MIN 30 SEC

Company: ASHLAND EXPLORATION, INC.  
P.O. BOX 2347  
CHARLESTON, WV 25328

Agent: Richard Smeltzer

Inspector: CARLOS HIVELY  
Permit Issued: 5/7/97  
Well work commenced: 6/25/97  
Well work completed: 7/25/97

Verbal Plugging  
Permission granted on:  
Rotary Rig X Cable Rig \_\_\_\_\_  
Total Depth 5730 feet  
Fresh water depths (ft) None Reported  
Salt water depths (ft) 500'

Casing & Tubing Size	Used In Drilling	Left In Well	Cement Fill Up Cu. Ft.
13 3/8"	27'	27'	GROUTED
9 5/8"	265'	265'	295
7"	2217'	2217'	380
4 1/2"	5686'	5686'	412

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Office of Oil and Gas  
WV Dept. of Environmental Protection

Is coal being mined in area? N  
Coal Depths (ft): 145', 156', 224', 254', 314', 336', 497', 540', 638', 782', 904', 989', 991'

OPEN FLOW DATA

Producing formation Dev. Shale, Gordon, Berea, Weir, Big Lime, L. Maxton Pay Zone Depth (ft): SEE ATT.  
Gas: Initial open flow 103 MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow: 1,354 MCF/d Final open flow: \_\_\_\_\_  
Time of open flow between initial and final tests \_\_\_\_\_ Hours  
Static rock pressure Not Report psig (surface pressure) after \_\_\_\_\_ Hours

Second producing formation \_\_\_\_\_ Pay Zone Depth (ft): \_\_\_\_\_  
Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow: \_\_\_\_\_ MCF/d Final open flow: \_\_\_\_\_  
Time of open flow between initial and final tests \_\_\_\_\_ Hours  
Static rock pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1) DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2) THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: BLAZER ENERGY CORPORATION

08/15/2014

**EASTERN STATES OIL & GAS, INC.  
WR-35 COMPLETION REPORT - Attachment  
Well Treatment Summary**

Well: Briar Mountain-EGF Unit 1 Well 1

API# 47-039-05143

Date	7-23-97	7-24-97	7-24-97	7-24-97		
Type Frac Acid, N <sub>2</sub> , Foam, Water	N <sub>2</sub>	N <sub>2</sub>	65Q Foam	75Q Foam		
Zone Treated	Huron Shale	Gordon, Berea, Weir	Big Lime	L. Maxton		
# Perfs From - To:	42 4395-5633	25 3362-3940	15 2975-3150	24 2804-2824		
BD Pressure @ psi						
ATP psi	2490	1877	1938	2639		
Avg. Rate, B=B/M, S= SCF/M	49,620 S	50,000 S	25 B Foam	21.7 B Foam		
Max. Treat Press psi						
ISIP psi						
Frac Gradient	.27	.26	.73	.97		
10 min S-I Pressure						
Material Volume						
Sand-sks				475		
Water-bbl						
SCF N <sub>2</sub>	1,050,000	85,100				
Acid-gal			3500			
NOTES:						

**Formation Record**

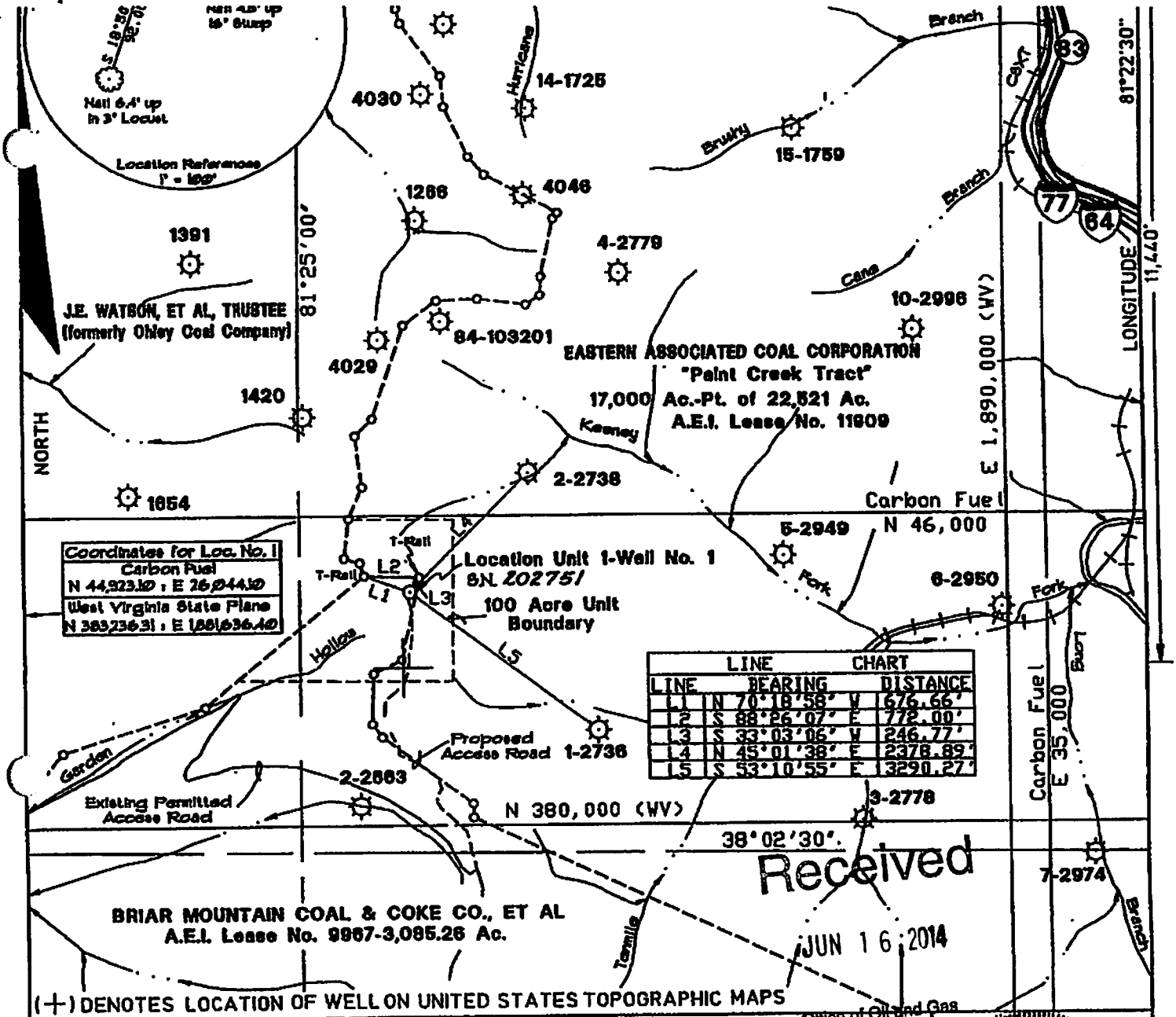
TOP	BOTTOM	FORMATION	Remarks
0	1550	Sand & Shale	Hole damp @ 71', Open mine 156'-162'
1550	2094	Salt Sand	Coal 145'-152', 224'-230', 254'-258', 314'-317'
2094	2318	Sand & Shale	Coal 336'-346', 497'-503', 540'-545', 638'-643'
2318	2349	Avis Limestone	Coal 782'-786', 904'-907', 969'-972', 991'-1000'
2349	2757	Sand & Shale	Hole damp @ 500'
2757	2823	Lower Maxton	GT @ 2795' No show
2823	2831	Sand & Shale	GT @ 3168' No show
2831	2900	Little Lime	GT @ 3354' 103 mcf/d
2900	2918	Sand & Shale	GT @ 4714' 84 mcf/d
2918	3220	Big Lime	GT @ 4 1/2" hanger 103 mcf/d
3220	3236	Sand & Shale	
3236	3370	Big Injun	
3360	3366	Middle Weir	
3370	3702	Sand & Shale	
3702	3749	Berea	
3749	3928	Sand & Shale	
3928	3942	Gordon	
3942	5730	Shale	
	5730	TD	

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WV Dept. of Environmental Protection

08/15/2014



LINE	BEARING	DISTANCE
L1	N 70° 18' 58" W	676.66'
L2	S 88° 26' 07" E	772.00'
L3	S 33° 03' 06" W	246.77'
L4	N 45° 01' 38" E	2378.89'
L5	S 53° 10' 55" E	3290.27'

Coordinates for Loc. No. 1  
Carbon Fuel  
N 44,923.10 ; E 26,044.10  
West Virginia State Plane  
N 385236.31 ; E 1881636.40

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

FILE NO. \_\_\_\_\_  
DRAWING NO. \_\_\_\_\_  
SCALE 1" = 2000'  
MINIMUM DEGREE OF ACCURACY 1:86682  
PROVEN SOURCE OF ELEVATION U.S.G.S. B.M. '831  
Cut Square Headwall, Elev. = 8325'

THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY THE LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENERGY.  
(SIGNED) *Ronald L. Eastman*  
R.P.E. \_\_\_\_\_ L.L.S. 130

Office of Oil and Gas  
WV Dept. of Environmental Protection  
RONALD L. EASTMAN  
LICENSED  
No. 99  
STATE OF WEST VIRGINIA  
LAND SURVEYOR  
PLACE SEAL HERE

WEST VIRGINIA  
DIVISION OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS  
#10 McJUNKIN ROAD  
NITRO, WEST VIRGINIA 25143-2506

WELL TYPE: OIL \_\_\_ GAS  LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
(IF "GAS,") PRODUCTION \_\_\_ STORAGE  DEEP \_\_\_ SHALLOW

LOCATION: ELEVATION 21300 WATER SHED Garden Hollow of Cabin Creek of the Kanawha River  
DISTRICT Cabin Creek COUNTY Kanawha  
QUADRANGLE Eskdale

SURFACE OWNER Briar Mountain Coal & Coke Co., et al ACREAGE 308526  
OIL & GAS ROYALTY OWNER Briar Mountain Coal & Coke Co., et al LEASE ACREAGE 308526

LEASE NO. 9967  
PROPOSED WORK: DRILL \_\_\_ CONVERT  DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW

DATE January 25, 19 99  
OPERATOR'S WELL NO. Briar Mountain-E.A.C.C. Unit 1 Well No. 1  
API WELL NO. 47-039-05143  
STATE COUNTY PERMIT



08/15/2014

FORM WW-6

COUNTY NAME

Pt



3905143 P

WW-4-A  
Revised 6/07

1) Date: 6-11-14  
2) Operator's Well Number  
202751 Briar Mountain Unit #1  
3) API Well No.: 47 039 - 05143  
State County Permit

**STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT**  
**DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL & GAS**  
**NOTICE AND APPLICATION TO PLUG AND ABANDON WELL**

4) Surface Owner(s) to be served:  
(a) Name Briar Mountain Coal & Coke Co  
Address P.O. Box 831  
Charleston, WV 25323  
(b) Name Penn Virginia Coal Co  
Address 800 The Bellevue  
200 S Broad St  
Philadelphia PA 19102  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_  
6) Inspector Terry Urban  
Address P.O. Box 1207  
Clendenin WV 25045  
Telephone 304.549.5915

5) (a) Coal Operator:  
Name None  
Address \_\_\_\_\_  
(b) Coal Owner(s) with Declaration  
Name Briar Mountain Coal & Coke Co  
Address P.O. Box 831  
Charleston, WV 25323  
Name Penn Virginia Coal Co  
Address 800 The Bellevue  
200 S Broad St  
Philadelphia PA 19102  
(c) Coal Lessee with Declaration  
Name None  
Address \_\_\_\_\_

Received

**TO THE PERSONS NAMED ABOVE:** You should have received this Form and the following documents: JUN 16 2014

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
  - (2) The plat (surveyor's map) showing the well location on Form WW-6.
- The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Division of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.



Well Operator: EQT Production Company  
Name: Vicki Roark  
Title: Permitting Supervisor  
Address: PO Box 280  
Bridgeport, WV 26330  
Telephone: (304) 848-0076

Subscribed and sworn before me this 10 day of June, 2014  
Pamela Sykes Notary Public  
My Commission Expires: 8-24-22

The Office of Oil & Gas processes your personal information, such as name, address and phone number, as 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.

08/15/2014

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Terry Urban  
P.O. Box 1207  
Clendenin, WV 25045

**EQT**  
C/O Vicki Roark  
P.O. Box 280  
Bridgeport, WV 26330

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JUN 16 2014

Office of Oil and Gas  
WV Dept. of Environmental Protection

08/15/2014

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Penn Virginia Coal Company  
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Philadelphia, PA 19102

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7014 0510 0000 4438 8908

Postage	\$	
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Penn Virginia Coal Company		
Total		800 The Bellevue

Sent 200 S Broad St  
Philadelphia, PA 19102  
Street or PO  
City, S  
202751 Plugging

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  Agent  Addressee

B. Received by (Printed Name) \_\_\_\_\_ C. Date of Delivery \_\_\_\_\_

D. Is delivery address different from item 1?  Yes  No  
If YES, enter delivery address below: \_\_\_\_\_

PS Form 3800, August 2009 See Reverse for Instructions

- 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.

1. Article Addressed to:  
 Penn Virginia Coal Co  
 800 The Bellevue ✓  
 200 S Broad St  
 Philadelphia PA 19102  
 202751 Plugging

3. Service Type  
 Certified Mail<sup>®</sup>  Priority Mail Express<sup>™</sup>  
 Registered  Return Receipt for Merchandise  
 Insured Mail  Collect on Delivery

4. Restricted Delivery? (Extra Fee)  Yes

2. Article Number (Transfer from service label) 7014 0510 0000 4438 8908

PS Form 3811, July 2013 Domestic Return Receipt

**EQT**  
C/O Vicki Roark  
P.O. Box 280  
Bridgeport, WV 26330

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JUN 16 2014

Office of Oil and Gas  
WV Dept. of Environmental Protection

08/15/2014

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US POSTAGE  
ZIP 26330  
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Briar Mountain Coal & Coke Co  
P.O. Box 831  
Charleston, WV 25323

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7014 0510 0000 4438 8892

Postage	\$	
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Postmark Here		

Postage \$  
Certified Fee  
Return Receipt Fee (Endorsement Required)  
Postmark Here

202751 Plugging

Briar Mountain Coal & Coke Co  
P.O. Box 831  
Charleston, WV 25323

City, State, ZIP+4

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  Agent  
**X**  Addressee

B. Received by (Printed Name) C. Date of Delivery

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

1. Article Addressed to:  
Briar Mountain Coal & Coke Co  
P.O. Box 831  
Charleston, WV 25323

Service Type

Certified Mail\*  Priority Mail Express™  
 Registered  Return Receipt for Merchandise  
 Insured Mail  Collect on Delivery

4. Restricted Delivery? (Extra Fee)  Yes

2. Article Number (Transfer from service label) 7014 0510 0000 4438 8892  
PS Form 3811, July 2013 Domestic Return Receipt

**EQT**  
C/O Vicki Roark  
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Bridgeport, WV 26330

Received

JUN 16 2014

Office of Oil and Gas  
WV Dept. of Environmental Protection

08/15/2014

3905143P

WW-9  
Revised 2/03

Page \_\_\_\_ of \_\_\_\_

2) Operator's Well Number

202751 Briar Mountain Unit #1

3) API Well No.: 47 039 - 05143

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL & GAS  
CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM  
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name: EQT PRODUCTION COMPANY OP ID: \_\_\_\_\_

Watershed: Cabin Creek Quadrangle: Elksdale 7.5

Elevation: 2140 County: Kanawha District: Cabin Creek

Description of anticipated Pit Waste: Formation Fluids

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

Will synthetic liner be used in the pit? Yes Is so, what ml.? 20 ml

Proposed Disposal Method for Treated Pit Wastes:

- Land Application
- Underground Injection - UIC Permit Number \_\_\_\_\_
- Reuse (at API Number) \_\_\_\_\_
- Offsite Disposal Permit #. \_\_\_\_\_
- Other: Explain \_\_\_\_\_

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

If oil based, what type? Synthetic, petroleum, etc. \_\_\_\_\_

Additives to be used? \_\_\_\_\_

Will closed loop system be used? \_\_\_\_\_

Drill Cuttings disposal method? Leave in pit, landfill, remove offsite, etc. \_\_\_\_\_

If left in pit and plan to solidify what medium will be used? Cement, Lime, sawdust \_\_\_\_\_

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 Division of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any terms 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.

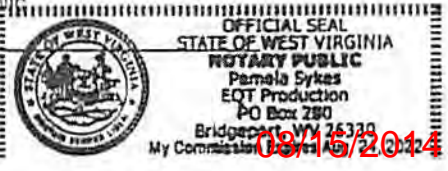
Company Official Signature *Vicki Roark*

Company Official (Typed or Printed) Vicki Roark

Company Official Title Permitting Supervisor

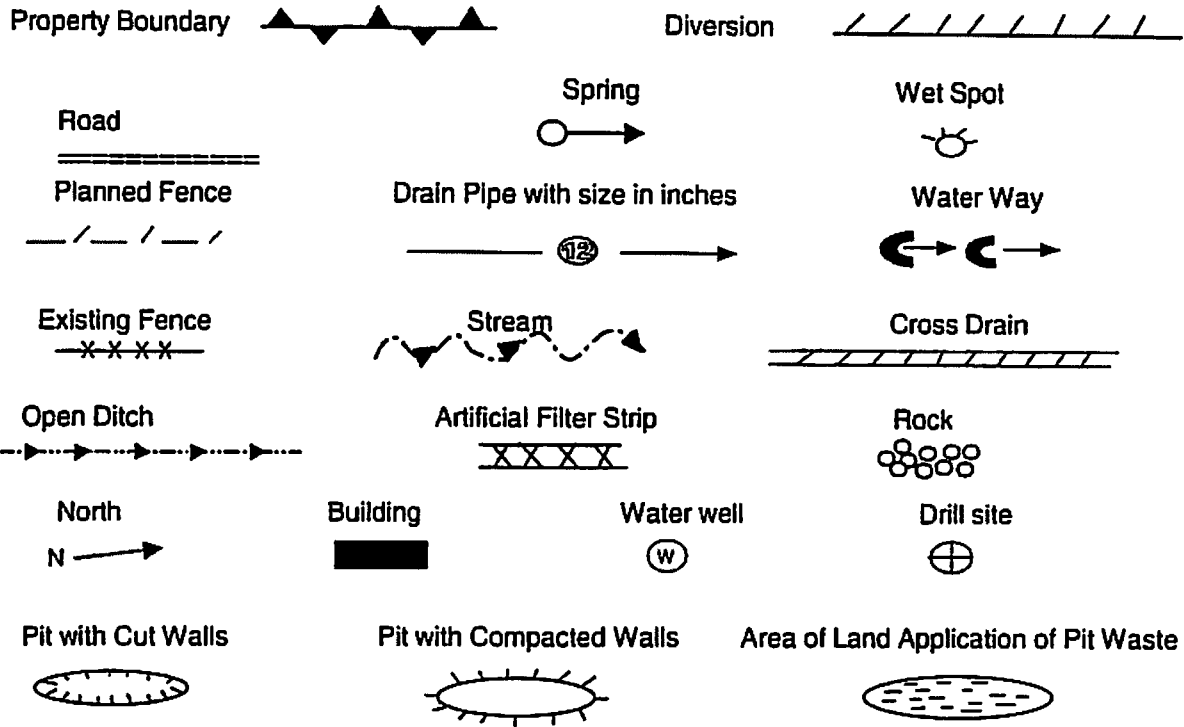
Subscribed and sworn before me this 10 day of June, 2014

*Pamela Sykes* Notary Public  
My Commission Expires 8-24-22



**OPERATOR'S WELL NO.:**  
**202751 Briar Mountain Unit #1**

**LEGEND**



Proposed Revegetation Treatment: Acres Disturbed: 1± Prevegetation pH 5.8

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20) or equivalent 1/3 ton lbs/acre (500 lbs minimum)

Mulch 2 Tons/acre or hydroseed.

**SEED MIXTURES**

Area I		Area II	
Seed Type	lbs/acre	Seed Type	lbs/acre
KY-31	40	Orchard Grass	15
Alsike Clover	5	Alsike Clover	5
Annual Rye	15		

**ATTACH:**

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

Photocopies section of involved 7.5' topographic sheet.

Plan approved by: *[Signature]*

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

Title: *Inspector* Date: *6-16-14*

Field Reviewed? Yes No

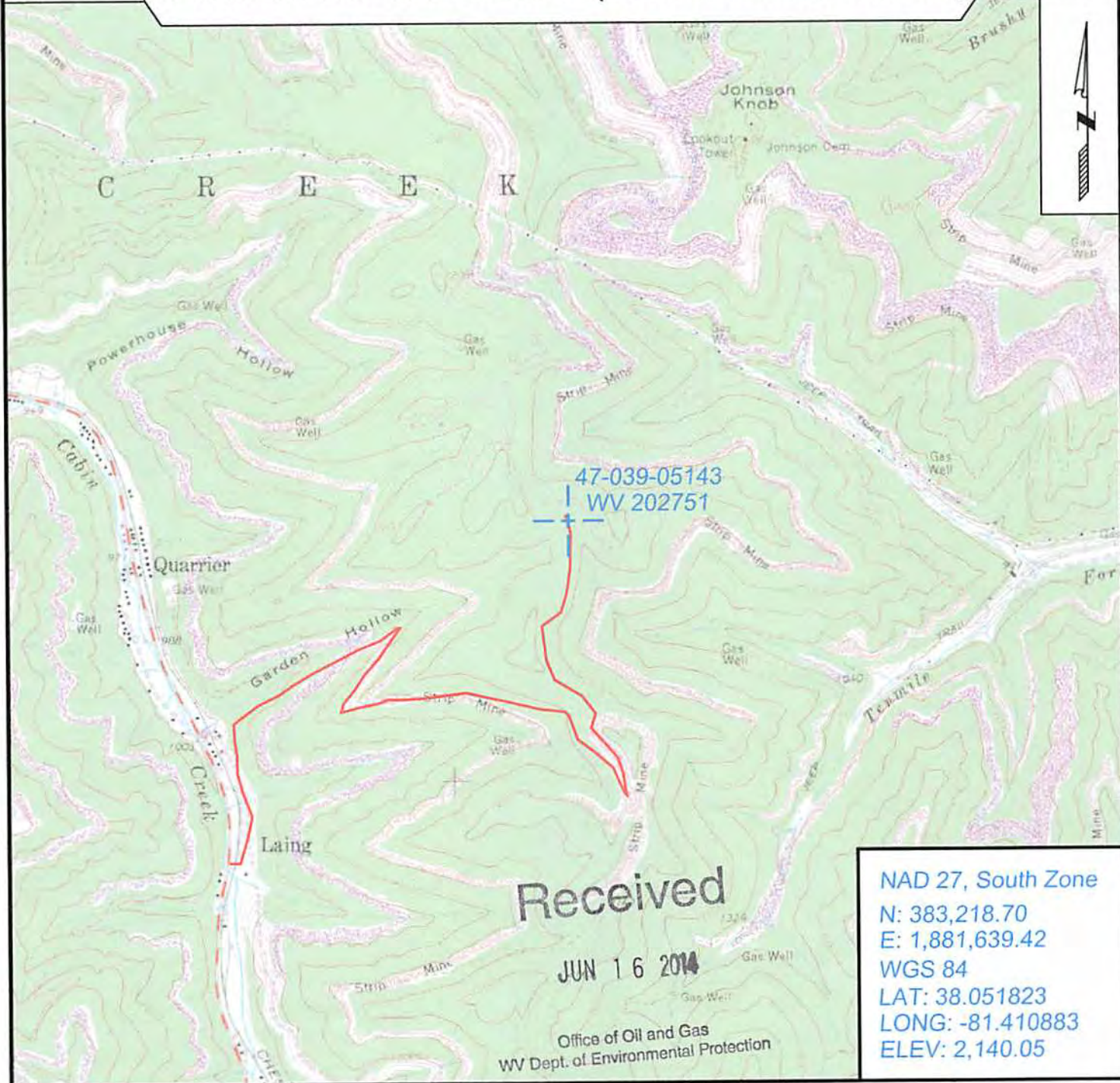
Topo Quad: Eskdale 7.5' Scale: 1" = 2000'

County: Kanawha Date: May 12, 2014

District: Cabin Creek Project No: 52-14-00-07

47-039-05143 WV 202751 (Briar Mountain Unit #1)

Topo



NAD 27, South Zone  
 N: 383,218.70  
 E: 1,881,639.42  
 WGS 84  
 LAT: 38.051823  
 LONG: -81.410883  
 ELEV: 2,140.05

Office of Oil and Gas  
 WV Dept. of Environmental Protection



SURVEYING AND MAPPING SERVICES PERFORMED BY:  
**ALLEGHENY SURVEYS, INC.**  
 1-800-482-8606  
 237 Birch River Road  
 Birch River, WV 26610  
 PH: (304) 649-8606  
 FAX: (304) 649-8608

PREPARED FOR:  
**EQT Production Company**  
 P.O. Box 280  
 Bridgeport, WV 26330

WW-7  
8-30-06



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

API: 47-039-05143 WELL NO.: WV 202751 (Briar Mountain Unit #1)

FARM NAME: Briar Mountain Coal Corp.

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Kanawha DISTRICT: Cabin Creek

QUADRANGLE: Eskdale 7.5'

SURFACE OWNER: Briar Mountain Coal & Coke Co. & Penn Virginia Operating Co., LLC.

ROYALTY OWNER: Penn Virginia Operating Co., LLC., et. al.

UTM GPS NORTHING: 4211645

UTM GPS EASTING: 463951 GPS ELEVATION: 652 m (2140 ft)

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS     : Post Processed Differential       
Real-Time Differential     

Mapping Grade GPS X: Post Processed Differential X  
Real-Time Differential     

4. Letter size copy of the topography map showing the well location.

I the undersigned, hereby certify this data 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 Office of Oil and Gas.

Signature

PS# 2180  
Title

5/22/14  
Date

Received

JUN 16 2014

Office of Oil and Gas  
WV Dept. of Environmental Protection



39 05143P



## POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY  
LEASE NAME AND WELL No. Briar Mountain Unit #1 - WV 202751 - API No. 47-039-05143

### POTENTIAL SAMPLE LOCATIONS

There appears to be no known water samples within the required 1000' of the existing well WV 202751.

Received

JUN 16 2014

Office of Oil and Gas  
WV Dept. of Environmental Protection

**BIRCH RIVER OFFICE**  
237 Birch River Road  
Birch River, WV 26610  
*phone:* 304-649-8606  
*fax:* 304-649-8608

**BRIDGEPORT OFFICE**  
172 Thompson Drive  
Bridgeport, WV 26330  
*phone:* 304-848-5035  
*fax:* 304-848-5037

**CALDWELL OFFICE**  
212 Cumberland Street  
Caldwell, OH 43724  
*phone:* 740-305-5007  
*fax:* 740-305-5126

**ALUM CREEK OFFICE**  
P.O. Box 108 • 1413 Childress Road  
Alum Creek, WV 25003  
*phone:* 304-756-2949  
*fax:* 304-756-2948

Topo Quad: Eskdale 7.5'

Scale: 1" = 2000'

County: Kanawha

Date: May 12, 2014

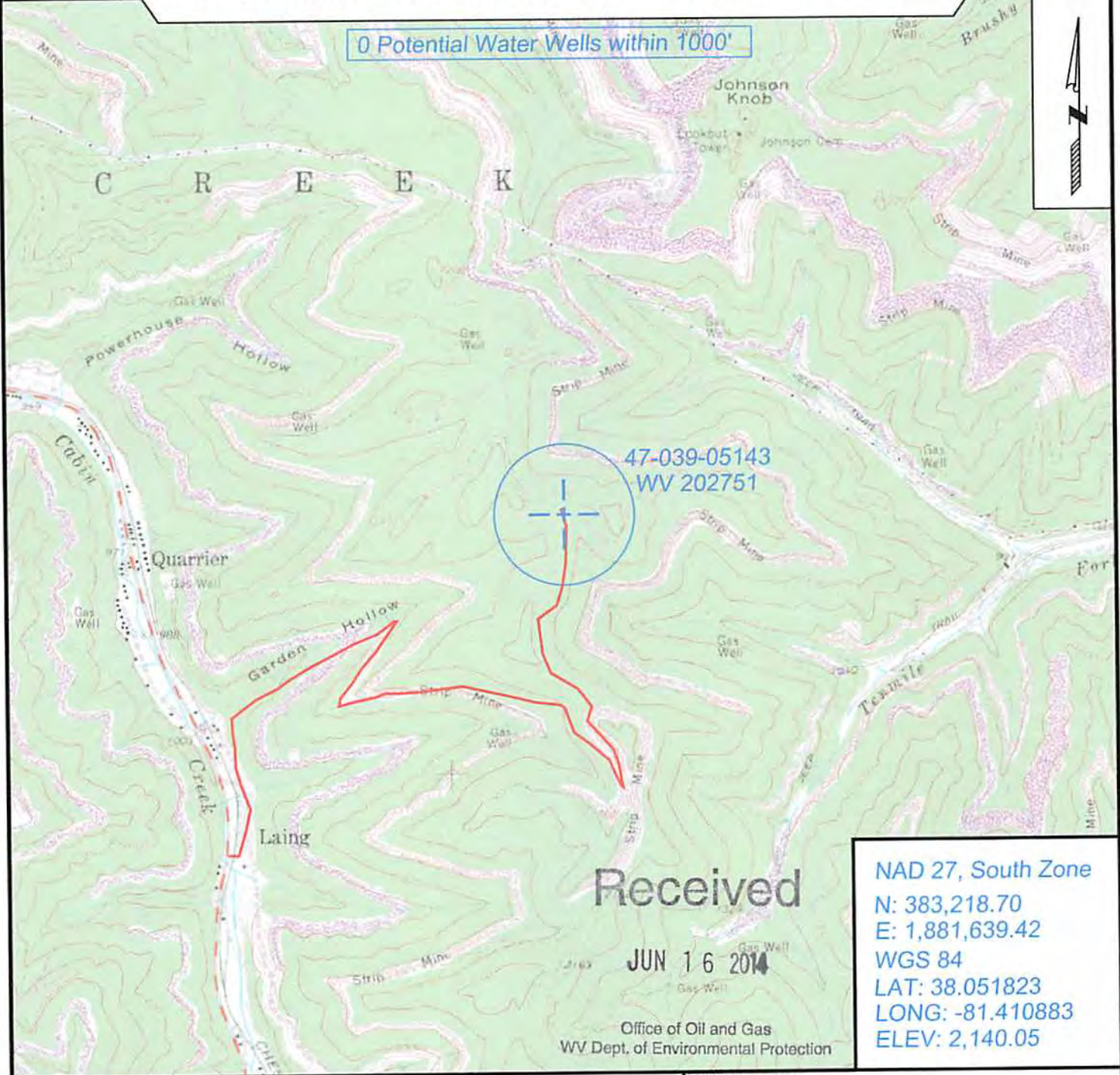
District: Cabin Creek

Project No: 52-14-00-07

Water

47-039-05143 WV 202751 (Briar Mountain Unit #1)

0 Potential Water Wells within 1000'



NAD 27, South Zone  
 N: 383,218.70  
 E: 1,881,639.42  
 WGS 84  
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