



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 04, 2014

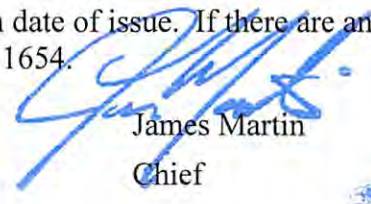
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-4701440, 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: WV 216541 (WVC-3816)
Farm Name: GEORGIA-PACIFIC CORP.
API Well Number: 47-4701440
Permit Type: Plugging
Date Issued: 02/04/2014

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. 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.

4701440P

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

Date: January 9, 2014
Operator's Well _____
Well No. 216541 WVC 3816
API Well No.: 47 047 - 01440

CK .360570
7100⁰⁰

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 X Liquid Injection _____ Waste Disposal: _____
If Gas, Production _____ X Or Underground storage _____ Deep _____ Shallow X

5) Elevation: 1777 Watershed: Groundhog Branch of Bradshaw Creek
Location: Sandy River 6 County: McDowell Quadrangle: Bradshaw 261
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 Gary Kennedy
Name: P.O. Box 268
Address: Nimitz, WV 25978

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.

6% Barite gel plug between cement plugs

RECEIVED
Office of Oil and Gas
JAN 31 2014
WV Department of
Environmental Protection

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 Gary Kennedy

Date 1/27/14

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Office of Oil and Gas
JAN 31 2014

WV Department of
Environmental Protection
02/07/2014

PLUGGING PROGNOSIS

216541

McDowell COUNTY, WEST VIRGINIA
API # 47-047-01440

BY: Beau Fry
DATE: 12/5/13

CURRENT STATUS:

- 12 3/4" csg @ 21' Grouted
- 8 5/8" csg @ 318' Cemented to surface
- 4 1/2" csg @ 1724' Cemented to surface
- 1 1/2" tubing @ 1656'
- 5/8" rods @?
- PBTD @ 1505'

Oil Shows – None Reported FW Shows – None Reported Gas shows – None Reported
Coal shows – 96'

Coal Stimulation: Hole perforated @ 813'-918' Fire Creek, Beckley, 1190' – 1505' Poca # 7, 5,4,3,1

1. Notify State Inspector, **Garv Kennedy**, 1-304-382-8402, 48 hrs. prior to commencing operations.
2. TOOH w/ 5/8" rods.
3. TOOH w/ 1 1/2" tubing and check condition.
4. TIH w/ 1 1/2" tubing to 1555' or deeper, Set 855' C1A cement plug @ 1555' to 700'. (Lower coal seams Perfs).
5. TOOH w/ tubing let cement cure. *6% Beurbank gel between cement plugs*
6. TIH w/ tubing check Cement top and set C1A Cement from Cement top to Surface totally filling remainder of well w/ cement (Coal Stimulation zones, (8 5/8" csg pt, 12 3/4" csg pt, Upper coal seam perfs).
7. Top off as needed
8. Set Monument to WV-DEP Specifications
9. Reclaim Location & Road to WV-DEP Specifications

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Jax
WV Department of
Environmental Protection

EQT Production Company

Plugging Detail

No gel solid cement

Coal @ 96'

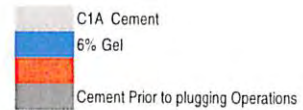
WELL: 216541

API: 47-047-01440

COUNTY: McDowell

QUADRANGLE:

8 5/8" csg @ 318' (Cemented to Surface)



6% Bentonite gel between cement plugs

Coal @ 918' to 813'

700' to 0
Cement

Coal @ 1505' to 1190'

1555' to 700'
Cement

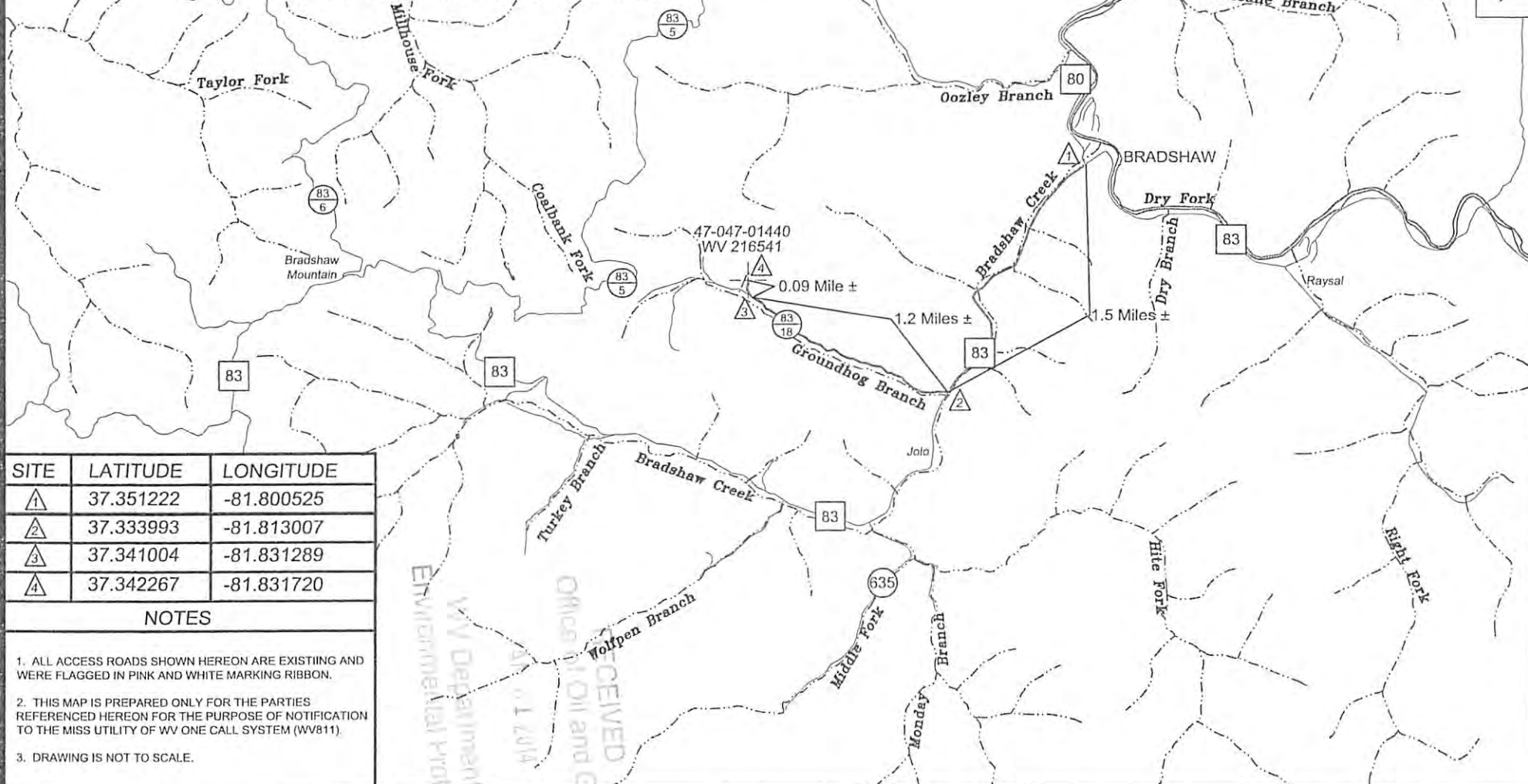
4 1/2" csg @ 1724' (Cemented to Surface)

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Office of Oil and Gas

JAN 31 2014

WV Department of
Environmental Protection

MISS UTILITY OF WEST VIRGINIA, INC. (WV811)
 (EXHIBIT B)
 DIRECTIONS TO EXISTING GAS WELL NO. WV 216541
 API No. 47-047-01440



SITE	LATITUDE	LONGITUDE
1	37.351222	-81.800525
2	37.333993	-81.813007
3	37.341004	-81.831289
4	37.342267	-81.831720

NOTES

1. ALL ACCESS ROADS SHOWN HEREON ARE EXISTING AND WERE FLAGGED IN PINK AND WHITE MARKING RIBBON.
2. THIS MAP IS PREPARED ONLY FOR THE PARTIES REFERENCED HEREON FOR THE PURPOSE OF NOTIFICATION TO THE MISS UTILITY OF WV ONE CALL SYSTEM (WV811).
3. DRAWING IS NOT TO SCALE.



SURVEYING AND MAPPING SERVICES PERFORMED BY:
ALLEGHENY SURVEYS, INC.
 1-800-482-8606
 P.O. BOX 438
 BIRCH RIVER, WV 26610
 PH: (304) 649-8606
 FAX: (304) 649-8608

County:	McDowell
District:	Sandy River
Date:	November 25, 2013
Project No:	20-37-00-08
FILE No:	20-08 WV 216541 MU B

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

4701440B

WVC-3816

47 01440P

WR-35

API # 47- 047-01440

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

[Signature]

Well Operator's Report of Well Work

Farm Name: Georgia-Pacific Corp Operator Well No.: WVC-3816
LOCATION: Elevation: 1,776.39 Quadrangle: Bradshaw
District: Sandy River County: McDowell

Latitude: 11,866 Feet South of Deg. 37 Minutes 22 Seconds 30
Longitude: 11,798.88 Feet West of Deg. 81 Minutes 47 Seconds 30

Company: **EQUITABLE PRODUCTION COMPANY**
P.O. Box 2347, 1710 Pennsylvania Avenue
Charleston, WV 25328

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
12-3/4"	21'	21'	Grd
8-5/8"	318'	318'	100 FT ³
4-1/2"	1724'	1724'	232 FT ³
1-1/2"		1656'	

Agent: Larry Aylstock

Inspector: Ofie Helmick
Permit issued: 5/1/00
Well work commenced: 07/18/00
Well work completed: 08/30/00

Verbal Plugging Permission granted on: _____

Rotary Rig Cable Rig _____

Total Depth 1765' feet

Fresh water depths (ft) _____

Salt water depths (ft) _____

Is coal being mined in area?
Coal Depths (ft): 95', 175', 410', 480', 525', 609', 814', 1190', 1386', 1389', 1515'

OPEN FLOW DATA

Producing formation Beckley/Firecreek/Poca 7,5,4,3,1,Squire Pay Zone Depth (ft): _____
 Gas: Initial open flow NS Bbl/d
 Final open flow 258 Hours
 Time of open flow between initial and final tests _____ Hours
 Static rock pressure 220 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: _____ Hours
 Time of open flow between initial and final tests _____ Hours
 Static rock pressure _____ psig (surface pressure) after _____ Hours

See Attach for details

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.

FEB 22 2001
DIVISION OF OIL AND GAS
FUELING

Received

For: BLAZER ENERGY CORPORATION

By: *[Signature]*
Date: 2/20/01

JAN 1 - 2001

Division of Oil and Gas
Department of Environmental Protection

Bradshaw 2

02/07/2014

**EQUITABLE PRODUCTION COMPANY
WR-35 COMPLETION REPORT - Attachment
Well Treatment Summary**

Well: WVC-3816

API# 47-047-01440

Date	7/29/2000	7/29/2000				
Type Frac	70 Q Foam	70 Q Foam				
Acid, N ₂ , Foam, Water	Poca	Beckley				
Zone Treated	7,5,4,3,1	Firecreek				
# Perfs	14	12				
From - To:	1190-1505	813-918				
BD Pressure @ psi	1827	1337				
ATP psi	3535	3373				
Avg. Rate, B=B/M, S= SCF/M	39 B Foam	39 B Foam				
Max. Treat Press psi	4200	3659				
ISIP psi	1830	1236				
Frac Gradient	1.83	2.45				
10 min S-I Pressure	1204	925				
	5 min	5 min				
Material Volume						
Sand-sks	119	120				
Water-bbl	547	593				
SCF N ₂	810,000	683,000				
Acid-gal	590 gal	600 gal				
	7.5%	7.5%				
NOTES:						

TOP	BASE	FORMATION	REMARKS*
0	10	Overburden	
10	15	Sand Shale	
15	25	Sandstone	
25	98	Sand Shale	
98	97	Coal	
97	175	Sandstone	
175	177	Coal	
177	215	Sandstone	
215	300	Sand Shale	
300	410	Sandstone	
410	411	Coal	
411	465	Sand Shale	
465	480	Sandstone	
480	481	Coal	
481	525	Sandstone	
525	526	Coal	
526	609	Sand Shale	
609	610	Coal	
610	655	Sandstone	
655	674	Sand Shale	
674	807	Sandstone	
807	813	Sand Shale	
813	817.5	Beckley	
918	918	Firecreek	
1189	1192	Poca 5	
1260.6	1282	Poca 4	
1339.5	1341	Poca 3	
1397	1400	Poca 2	
1504	1505.5	Squire Jim	
1630		Mauch Chunk	
1765		TD	

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 FEB 22 2001
 WV DEPT. OF ENVIRONMENTAL PROTECTION

Received

JAN 17 2014

Office of Oil and Gas
 WV Dept. of Environmental Protection



Miss Utility of West Virginia (WV811)
(Exhibit A)
Directions to Existing Gas Well No. WV 216541
API No. 47-047-01440

- Beginning at the intersection of West Virginia Route 83, Bartley Store Bottom Road, and West Virginia Route 80, Beartown Road, in the Community of Bradshaw, McDowell County, West Virginia. (Point No. 1)
- Proceed South along State Route 83 approximately 1.5 miles to County Route 83/18, Groundhog Branch Road, on the right. (Point No. 2)
- Turn right onto County Route 83/18 and proceed Northwest approximately 1.2 miles to the Well Access Road on the right. (Point No. 3)
- Turn right and proceed North along the Well Access Road approximately 0.09 mile arriving at Gas Well WV 216541. (Point No. 4)

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Office of Oil and Gas
WV Department of
Environmental Protection

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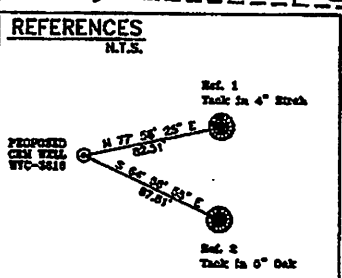
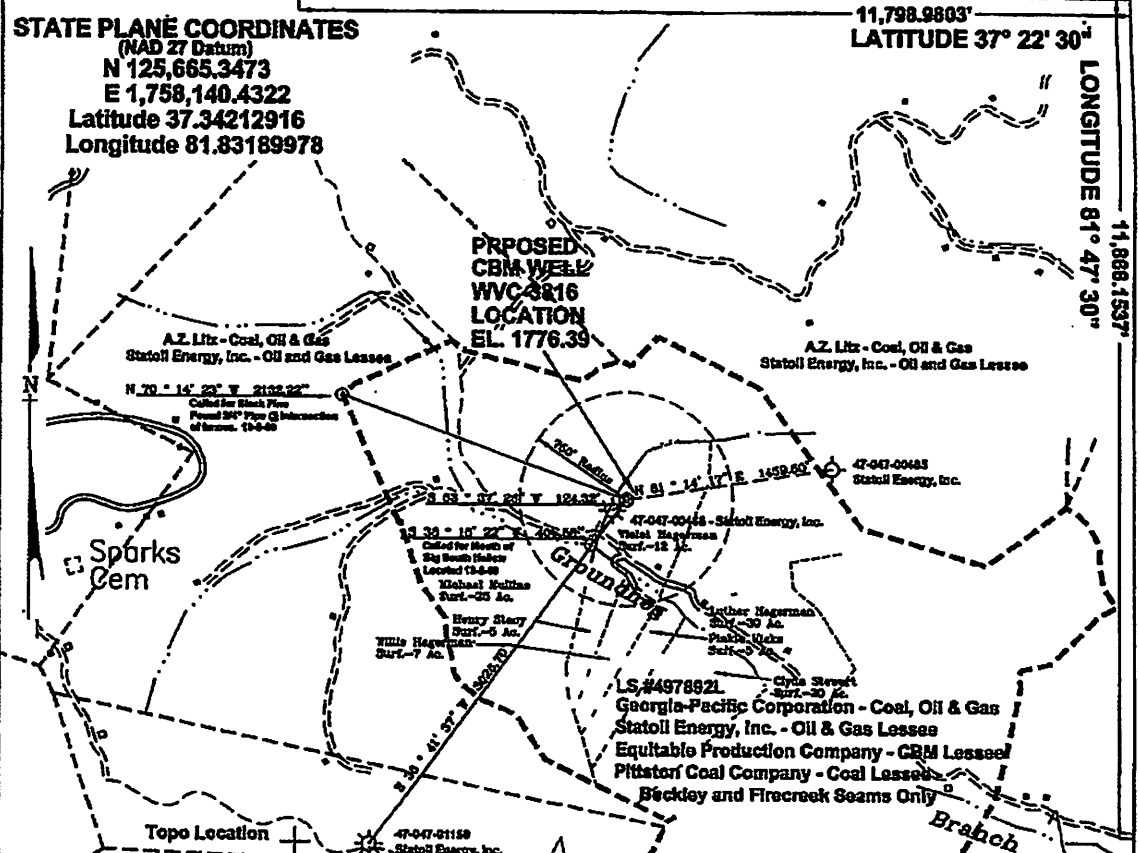
BIRCH RIVER OFFICE
P.O. Box 438 • 237 Birch River Road
Birch River, WV 26610
phone: 304-649-8606
fax: 304-649-8608

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

4701440P



REFERENCES
N.T.S.

Ref. 1
Thick in 4" thick

Ref. 2
Thick in 6" thick

Len Rogers et al - Coal, Oil & Gas
Statoli Energy, Inc. - Oil and Gas Lessee
Equitable Production Company - CBM Lessee

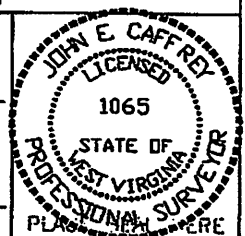
Georgia-Pacific Corporation - Coal, Oil and Gas
Lease # 497892L - 810.95 Ac.
Statoli Energy, Inc. - Oil and Gas Lessee
Pittston Coal Company - Coal Lessee - Beckday and Firecreek Seams Only
Equitable Production Company - CBM Lessee
Violet Hagerman - Surface 12 Ac.

Note: (+) Denotes location of well on USGS map.

FILE No. Equitable-99
DRAWING NAME WVC-3816 WVC-3816
Drawing Number 9-27-99-1SP
SCALE 1" = 1000'
MINIMUM DEGREE OF ACCURACY 1:2500
PROVEN SOURCE OF ELEVATION USGS B.M.
Fstep

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 MINES.

(SIGNED) *[Signature]*
R.P.E. R.P.S. 1065



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

DATE OCTOBER 12 19 99
OPERATOR'S WELL No. WVC-3816
API WELL No. 47 - 047 - 01440c

WELL TYPE: OIL GAS CBM LIQUID INJECTION WASTE DISPOSAL
(IF "GAS") PRODUCTION X STORAGE DEEP SHALLOW

LOCATION: ELEVATION 1776.39 WATER SHED GROUNDHOG BRANCH OF BRADSHAW CREEK
DISTRICT SANDY RIVER COUNTY MCDOWELL
QUADRANGLE BRADSHAW, WV-VA

SURFACE OWNER VOILET HAGERMAN ACREAGE 12.00
CBM ROYALTY OWNER GEORGIA-PACIFIC CORPORATION LEASE ACREAGE 810.95

LEASE No. 497892L

PROPOSED WORK: DRILL X CONVERT DRILL DEEPER REDRILL FRACTURE OR
STIMULATE X PLUG OFF OLD FORMATION PERFORATE NEW
FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY)

PLUG AND ABANDON CLEAN OUT AND REPLUG

TARGET FORMATION PENNSYLVANIAN COALS ESTIMATED DEPTH
WELL OPERATOR EQUITABLE PRODUCTION COMPANY DESIGNATED AGENT LARRY AYLESTOCK
ADDRESS 1889 EAST STONE DRIVE ADDRESS P.O. BOX 1550
KINGSPORT, TN 37680 CLARKSBURG, WV 26302

Received

JAN 17 1999

Office of Oil and Gas
WV Dept. of Environmental Protection

Bradshaw 2 02/07/2014

- 1) Date: January 9, 2014
- 2) Operator's Well Number
216541 WVC 3816
- 3) API Well No.: 47 047 - 01440
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 Willie & Barbara Hagerman
Address P.O. Box 218
Jolo, WV 24850

(b) Name _____
Address _____

(c) Name _____
Address _____

6) Inspector Gary Kennedy
Address P.O. Box 268
Nim投资, WV 25978
Telephone 304.382.8402

5) (a) Coal Operator:
Name None
Address _____

(b) Coal Owner(s) with Declaration
Name Natural Resource Partners LP
George Angus
Address 5280 Irwin Road
Huntington, WV 25705

Name _____
Address _____

(c) Coal Lessee with Declaration
Name Alpha Natural Resources
Address P.O. Box 541
Pineville, WV 24874

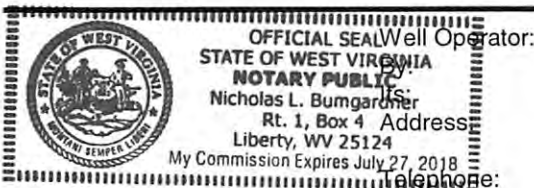
TO THE PERSONS NAMED ABOVE:

You should have received this Form and the following documents:

- (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
Victoria J. Roark
 Permitting Supervisor
PO Box 280
Bridgeport, WV 26330
(304) 848-0076

[Handwritten Signature]

Received

Subscribed and sworn before me this 9 day of JANUARY, 2014
 My Commission Expires: 6/27/2018 Notary Public

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.

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048110228892

neopost
01/09/2014
US POSTAGE



Received
JAN 17 2014

4701440P

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(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com
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Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		

Postmark
Here

Total Post
Sent To
Street, Apt.
or PO Box #
City, State, ZIP+4®

Natural Resources Partners, LP
George Angus
5280 Irwin Road
Huntington, WV 25705

216541 Plugging

PS Form 3800, August 2006
See Reverse for Instructions
Attach this card to the back of the mail piece or on the front if space permits.

1. Article Addressed to:
Natural Resources Partners, LP
George Angus
5280 Irwin Road
Huntington, WV 25705

216541 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? Yes
If YES, enter delivery address below: No

3. 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) 7013 2630 0002 2366 7334

PS Form 3811, July 2013 Domestic Return Receipt



7013 2630 0002 2366 7334
7013 2630 0002 2366 7334

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

02/07/2014

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ZIP 26330
041510228892

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7013 2630 0002 2366 7327

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For delivery information visit our website at www.usps.com
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Postage	\$	Postmark Here
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		

Total # Alpha Natural Resources
Sent To P.O. Box 541
Pineville, WV 24874
City, State
216541 Plugging

PS Form 3800, August 2006 See Reverse for Instructions

Alpha Natural Resources
P.O. Box 541
Pineville, WV 24874

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Agent
 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

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

4. Restricted Delivery? (Extra Fee) Yes

1. Article Addressed to:
Alpha Natural Resources
P.O. Box 541
Pineville, WV 24874
216541 Plugging

2. Article Number
(Transfer from service label) 7013 2630 0002 2366 7327

PS Form 3811, July 2013 Domestic Return Receipt

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

02/07/2014

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

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01/09/2014
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041L 10228892

Received
JAN 17 2014



Gary Kennedy
P.O. Box 268
Nirmitz, WV 25978

4701440P

02/07/2014

4701440P

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\$07179
01/09/2014
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JAN 17 2014
Office of Oil and Gas
WV Dept. of Environmental Protection
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OFFICIAL USE

Postage	\$	Postmark Here
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement)		
Total Postage	Willie & Barbara Hagerman P.O. Box 218 Jolo, WV 24850	
Sent To	216541 Plugging	
Street, Apt. No. or PO Box No. City, State, ZIP+4		

PS Form 3800, August 2006 See Reverse for Instructions

CERTIFIED MAIL™

7013 2630 0002 2366 7341
7013 2630 0002 2366 7341

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. 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. 	<p>A. Signature X <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) C. Date of Delivery</p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>
<p>1. Article Addressed to:</p> <p>Willie & Barbara Hagerman P.O. Box 218 Jolo, WV 24850</p> <p>216541 Plugging</p>	<p>3. Service Type</p> <p><input type="checkbox"/> Certified Mail® <input type="checkbox"/> Priority Mail Express™ <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> Collect on Delivery</p> <p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>
<p>2. Article Number (Transfer from service label)</p> <p>7013 2630 0002 2366 7341</p>	

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

02/07/2014

4701440P

WW-9
Revised 2/03

Page ____ of ____
2) Operator's Well Number
216541 WVC 3816
3) API Well No.: 47 047 - 01440

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: Groundhog Branch of Bradshaw Creek Quadrangle: Bradshaw
Elevation: 1777 County: McDowell District: Sandy River

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.? 30 ml

Proposed Disposal Method for Treated Pit Wastes: SW
 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.

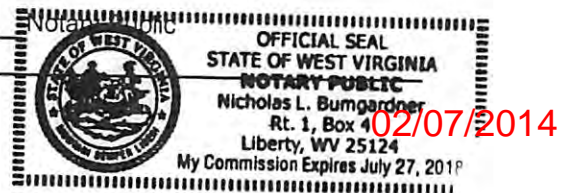
Company Official Signature [Signature]

Company Official (Typed or Printed) Victoria Roark

Company Official Title Permitting Supervisor-WV

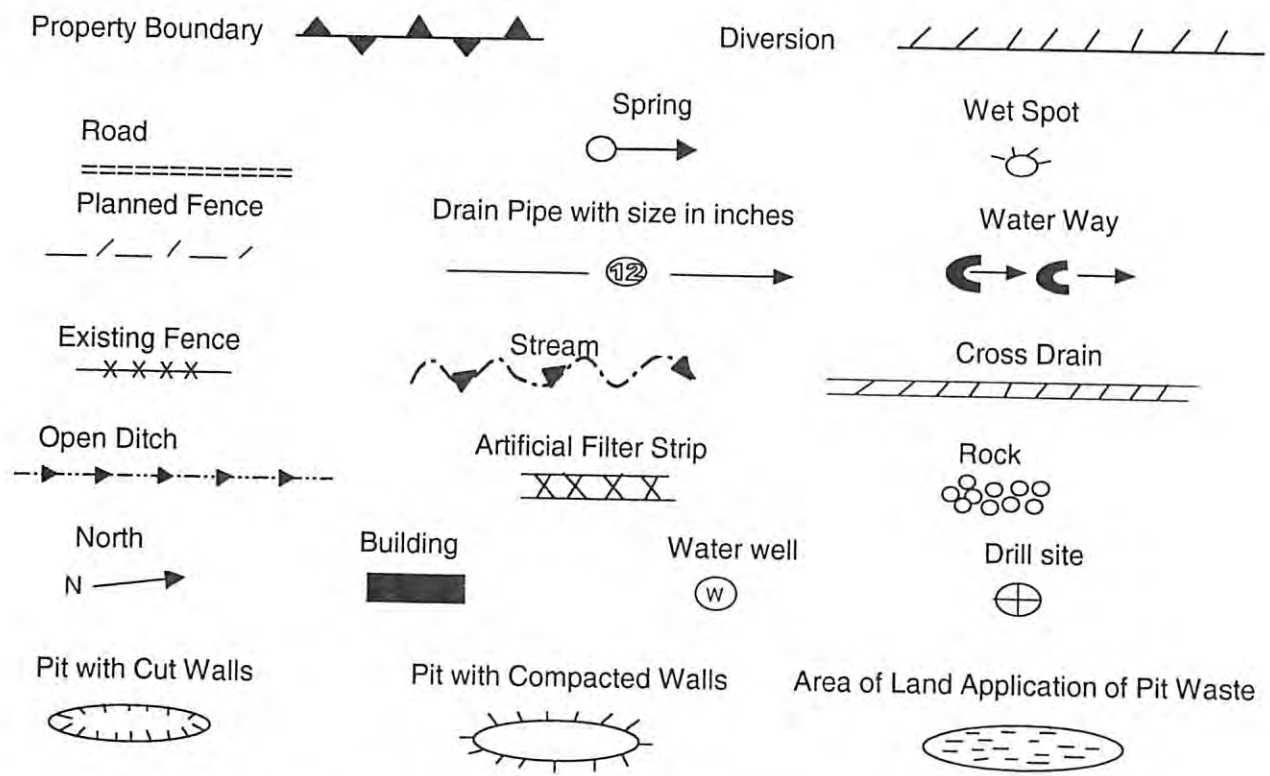
Subscribed and sworn before me this 9 day of JANUARY, 2018

My Commission Expires 6/27/2018



OPERATOR'S WELL NO.:
216541 WVC 3816

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: *Anthony Kennedy*

Comments: _____

Title: *Inspector* Date: *1-27-14*
 Field Reviewed? Yes No

4701440P

Topo Quad: Bradshaw 7.5'

Scale: 1" = 2000'

County: McDowell

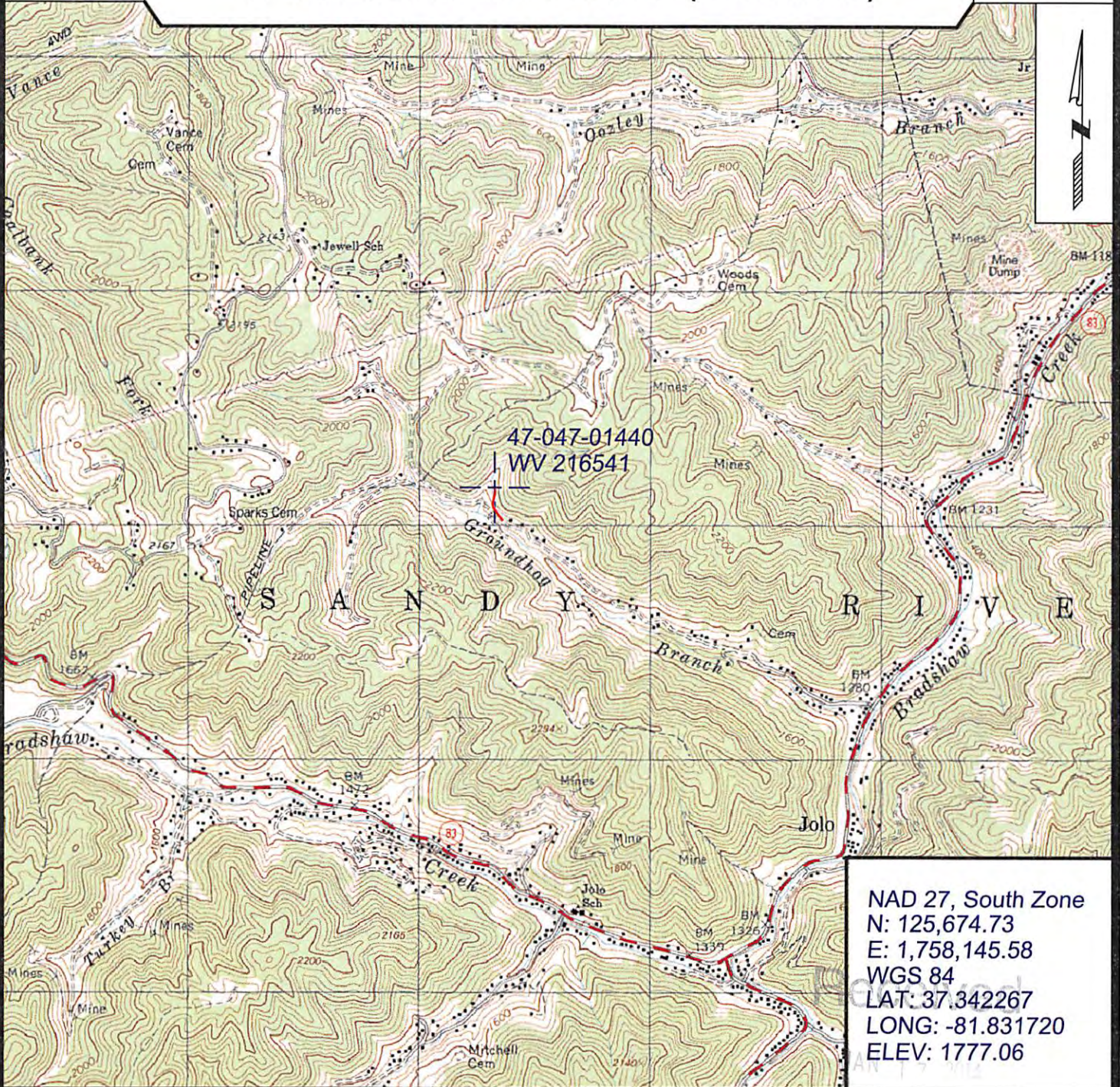
Date: November 27, 2013

District: Sandy River

Project No: 20-37-00-08

47-047-01440 WV 216541 (WVC 3816)

Topo



47-047-01440
WV 216541

NAD 27, South Zone
 N: 125,674.73
 E: 1,758,145.58
 WGS 84
 LAT: 37.342267
 LONG: -81.831720
 ELEV: 1777.06



SURVEYING AND MAPPING SERVICES PERFORMED BY:
ALLEGHENY SURVEYS, INC.

1-800-482-8606
 P.O. BOX 438
 BIRCH RIVER, WV 26610
 PH: (304) 649-8606
 FAX: (304) 649-8608

PREPARED FOR:

Office of Oil and Gas
EQT Production Company

P.O. Box 280
 Bridgeport, WV 26330

02/07/2014

WW-7
8-30-06



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

API: 47-047-01440 WELL NO.: WV 216541 (WVC 3816)

FARM NAME: Georgia-Pacific Corporation

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: McDowell DISTRICT: Sandy River

QUADRANGLE: Bradshaw 7.5'

SURFACE OWNER: Willie & Barbara Hagerman

ROYALTY OWNER: EQT Production Company, et al.

UTM GPS NORTHING: 4133167

UTM GPS EASTING: 426329 GPS ELEVATION: 541 m (1777 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 Steve O'Keefe

Date 12/6/13

Title PS # 2180

JAN 17 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

02/07/2014

47014409



Historical Well Chronology

Where energy needs innovation

Well Name: 216541 WVC 3816

API	Energy Well # 216541	PUD Name & #	Permit Number	Permit Date	Prod Resp Party	Farm Name (WW)	Operator	State
Orig KB Elev...	Spud Date	Planned Well Geometry	Well Type Conventional	Loc Stat from LHM spud	Area	County Unknown	Quad	

Job Category: <Job Category?>, Job Start Date: <Start Date?>

Job Category	AFE Number	Start Date	Date TD Reached (wellbore)	Target Depth (ftKB)	Total AFE Amount (Cost)
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Summary

Report #: <Report Number?> DFS: <Days From Spud?> Rigs: <Rig?> Job
 Category: <Job Category?>

Report End Date	Operations at Report Time	Last Casing String
-----------------	---------------------------	--------------------

Day Total (Cost)	Cum To Date (Cost)	Start Depth (ftKB)	End Depth (ftKB)	Drill Hrs (hr)	Avg ROP (ft/hr)	Daily Contacts
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Operations Summary

(This area is currently blank in the provided image.)

Received

JAN 1 -

Office of Oil and Gas
WV Dept. of Environmental Protection

02/07/2014

NOTE_TEXT

1	Wells with production greater than 10 mcf/d for Operations model.
2	GREATER THAN 10Mcf/d: 2007
3	2007 Royalty Lawsuit.
4	Flo Cal
5	Quad average.
6	Code - 97
7	NO
8	Brenton UnRegulated
9	Forecast motor
10	Wrong Cums.
11	Brenton WV CBM.
12	BR2 200 WELLS
13	Oct Vol Variance Analysis.
14	Brenton CBM wells.
15	Brenton.
16	Still Flat - No
17	Revised LLP_V2 Treasury list.
18	Enertia NRI 0.875 Aries NRI 1 Interest Difference -0.125
19	BUD09 Forecast Revisions.
20	Downhole pump problem since Feb. 09. 9mcf/d flow
21	Orifice Plate Diameter - 0.375 / Tube Diameter - 2.06699991226196
22	Comp. off since 1/11/03 Sat.
23	Comp. unit had been off since Fri.10/3 on hi-disch.. Started unit.
24	Repair Pump Jack
25	Repair Pump Jack
26	Started comp. unit.
27	Comp. unit isn t reducing well press. below 25 lbs.
28	Grease Pumping Unit-Kingsly 240 unit. Comp. was off on suc. press. Started unit to see how long run time,
29	would be before shut down on low suc. Unit was running after 1 hr. as I left.
30	pulled tbg.
31	2004 PRODUCTION ENHANCEMENT
32	Comp. off, lubed and tightened stuffingbox.
33	tightened stuf-box and lubed. replaced worn and broken belts.
34	005
35	Whc was not on due to low line press. at this well. Borrowed 240 unit from here to replace a 325 unit at 3819 to low
36	Fluid Level - 66.7bbbls. in tank.
37	Tank full. Called for trk.
38	Fluid Level-89.6 bbbls in tank. Approx. 4.25 per/day.
39	Fluid Level-116.6 bbbls. in tank.
40	Grease Pumping Unit
41	Grease Pumping Unit
42	Blow Pipeline-
43	Change Chart/Download Meter-
44	Blow Drip - Location-packed stuffing box
45	Change Chart/Download Meter-
46	Blow Drip - Location-
47	Change Chart/Download Meter-
48	Blow Drip - Location-

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JAN 17 2014

Office of Oil and Gas
New Mexico Department of Environmental Protection

02/07/2014

NOTE_TEXT

49	Blow Drip - Location-
50	Blow Drip - Location-
51	Maintenance-16MCF
52	Maintenance-16MCF
53	Maintenance-15mcf
54	Maintenance-Blow Drip - Location.
55	Maintenance-Blow Drip - Location.
56	Maintenance-Blow Drip - Location.
57	Maintenance-Blow Drip - Location.
58	Maintenance-Blow Drip - Location.
59	Maintenance-Blow Drip - Location.
60	Blow Drip - Location-Grease Pumping Unit.
61	Blow Drip - Location-Grease Pumping Unit.
62	Blow Drip - Location-Change Chart/Download Meter.
63	Blow Drip - Location-Grease Pumping Unit.
64	Blow Drip - Location-Grease Pumping Unit.
65	Change Chart/Download Meter-Blow Drip - Location
66	Blow Drip - Location-Grease Pumping Unit-
67	Blow Drip - Location-Grease Pumping Unit-
68	Blow Drip - Location-Grease Pumping Unit-
69	Change Chart/Download Meter-Grease Pumping Unit
70	Blow Drip - Location-Grease Pumping Unit-
71	Blow Drip - Location-Grease Pumping Unit-
72	Blow Drip - Location-Grease Pumping Unit-
73	Change Chart/Download Meter-Blow Drip - Location
74	Blow Drip-Location-Grease Pumping Unit-
75	Blow Drip-Location-Grease Pumping Unit-
76	Change Chart/Download Meter-Blow Drip-Location-
77	Blow Drip-Location-Grease Pumping Unit-
78	Blow Drip-Location-Grease Pumping Unit-
79	Blow Drip-Location-Grease Pumping Unit-
80	Change Chart/Download Meter-Blow Drip-Location-
81	Blow Drip-Location-Grease Pumping Unit-
82	Blow Drip-Location-Grease Pumping Unit-
83	Blow Drip - Location-P/U breaker was kicked, reset and started p/u.
84	Maintenance -(Feb,D,Down hole pump)
85	Maintenance -(Mar,D,down hole pump,308)
86	Maintenance-(Apr, D, Down hole pump, 330)
87	Maintenance - (May,D,Down Hole pump,341)
88	Maintenance (June,D,down hole pump,330)
89	Maintenance-(July,D,Down hole pump,341)
90	Maintenance-(Aug,D,DHP,279)
91	Maintenance-(Sep,D,DHP,240)
92	Maintenance (Oct,D,DHP,248)
93	Maint. (Nov,D,DHP,240)
94	Blow Drip - Location -(Dec,DHP,60)
95	Maintenance-(Jan,Fr,0)
96	Pumping_Unit-DHP

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WV Dept. of Environmental Protection

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NOTE_TEXT

97	Pumping_Unit DHP
98	Downtime Equipment has been pulled off.
99	

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WV Dept. of Environmental Protection

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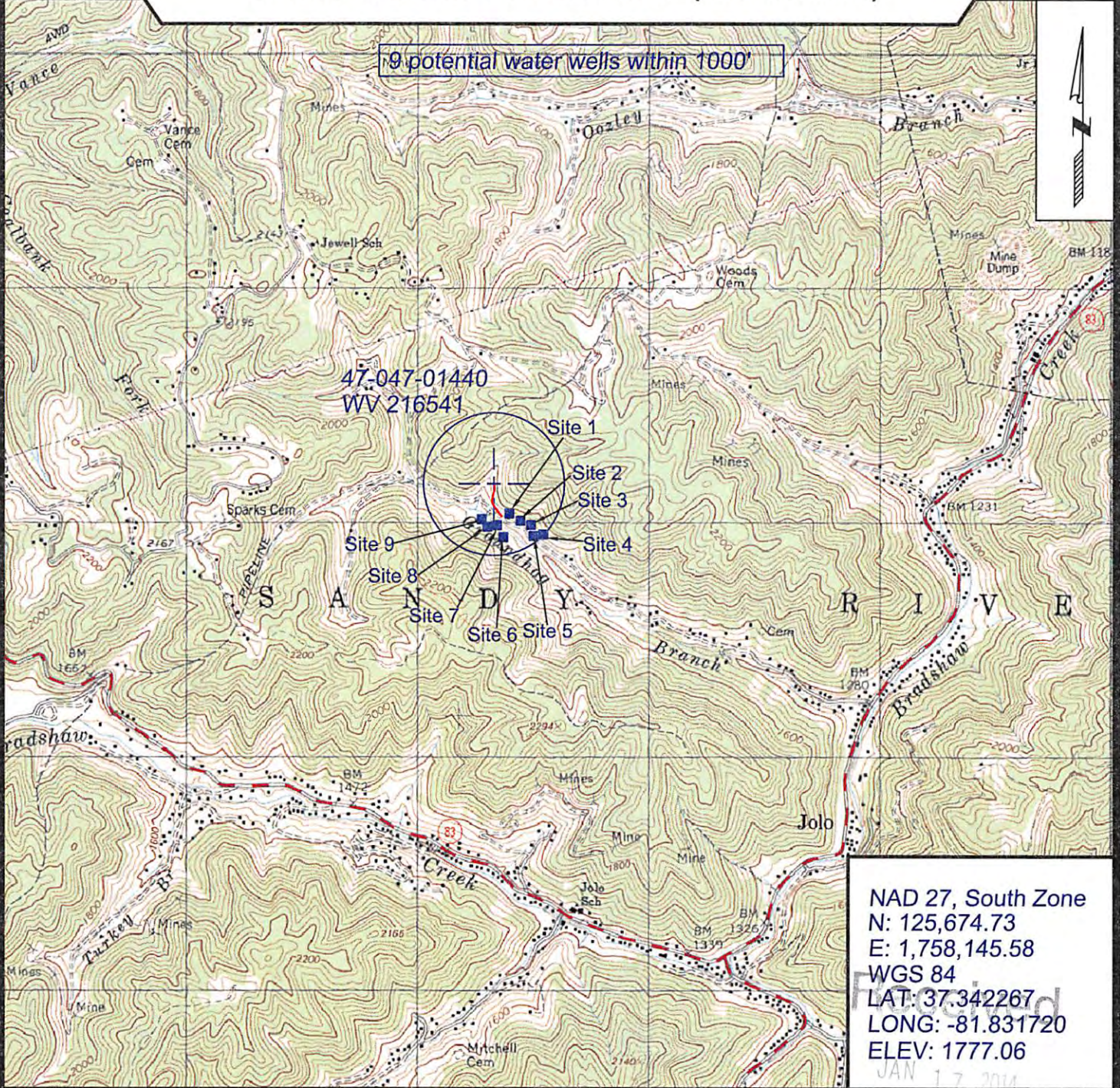
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County: McDowell Date: November 27, 2013

District: Sandy River Project No: 20-37-00-08

Water

47-047-01440 WV 216541 (WVC 3816)



NAD 27, South Zone
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POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY

LEASE NAME AND WELL No. WVC 3816 WV 216541 API No. 47-047-01440

The initial mapping review of the area surrounding the proposed well site revealed the below listed surface owner(s) that were potentially utilizing groundwater (potable) for Human Consumption or other purposes within 1000' of the existing well site. The following landowners will be notified of the opportunity to request a water sample.

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

POTENTIAL SAMPLE LOCATIONS

Site: 1 Spacing: 468' +/- Owner: Willie & Barbara Hagerman
Address: PO Box 218 Jolo, WV 24850 Phone No. _____
Comments:

Site: 2 Spacing: 641' +/- Owner: Gene & Shirley Terry et al
Address: PO Box 36 Standard, IL 61363 Phone No. _____
Comments:

Site: 3 Spacing: 781' +/- Owner: Gene & Shirley Terry et al
Address: PO Box 36 Standard, IL 61363 Phone No. _____
Comments:

Site: 4 Spacing: 992' +/- Owner: Gene & Shirley Terry et al
Address: PO Box 36 Standard, IL 61363 Phone No. _____
Comments:

Site: 5 Spacing: 918' +/- Owner: Gene & Shirley Terry et al
Address: PO Box 36 Standard, IL 61363 Phone No. _____

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JAN 17 2014

BIRCH RIVER OFFICE
P.O. Box 438 • 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

Comments:

Site: 6 Spacing: 736' +/- Owner: Pinkie Hicks & Jennie Honaker
Address: PO Box 70 Jolo, WV 24850 Phone No. _____

Comments:

Site: 7 Spacing: 579' +/- Owner: Willie & Barbara Hagerman
Address: PO Box 218 Jolo, WV 24850 Phone No. _____

Comments:

Site: 8 Spacing: 606' +/- Owner: Willie & Barbara Hagerman
Address: PO Box 218 Jolo, WV 24850 Phone No. _____

Comments:

Site: 9 Spacing: 524' +/- Owner: Henry & Cora Stacy
Address: PO Box 128 Jolo, WV24853 Phone No. _____

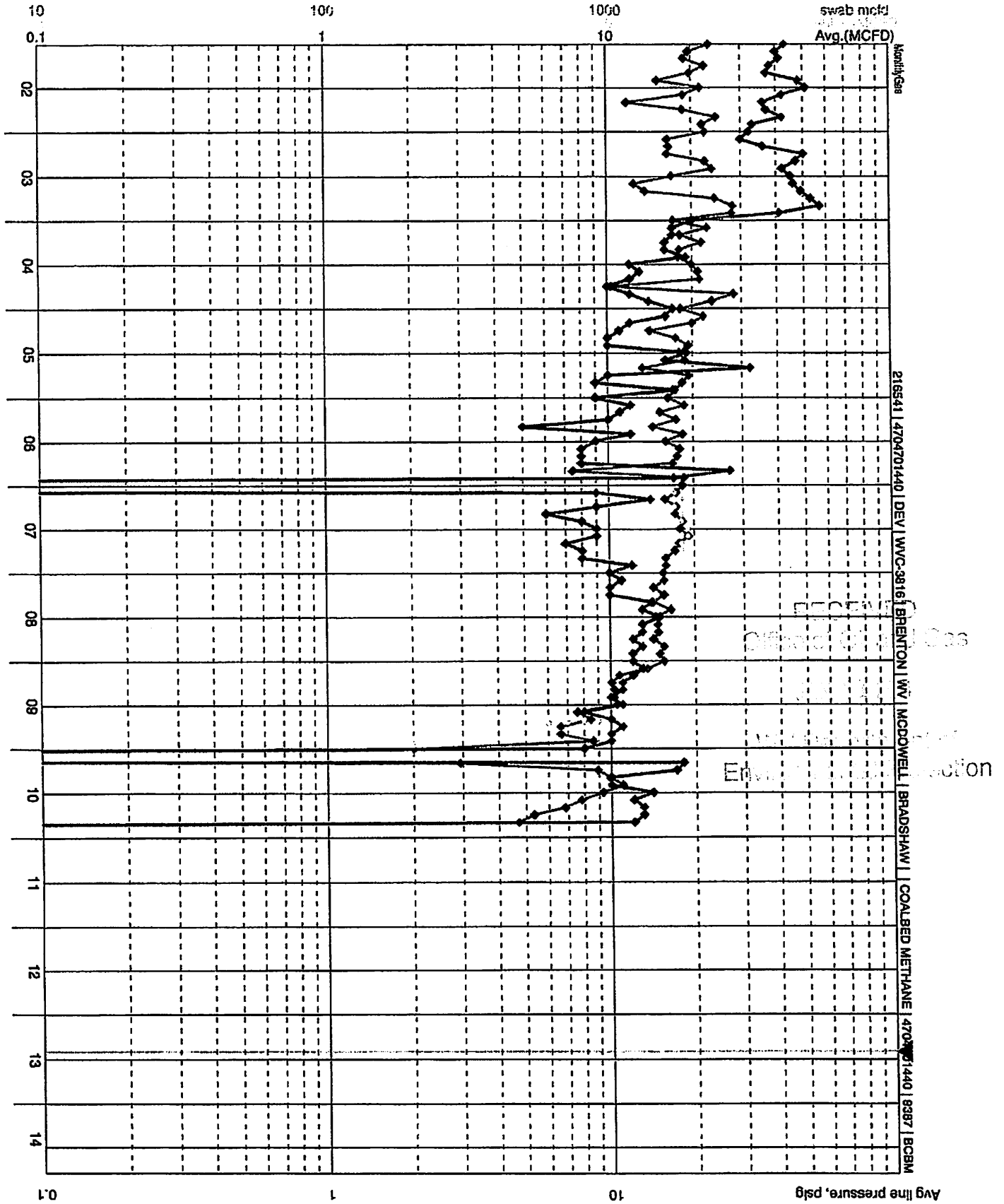
Comments:

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West Virginia Department of Environmental Protection

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02/07/2014