



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

October 21, 2014

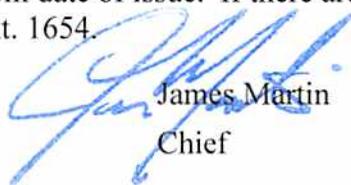
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-4701337, 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: 3821
Farm Name: GEORGIA-PACIFIC CORP.
API Well Number: 47-4701337
Permit Type: Plugging
Date Issued: 10/21/2014

Promoting a healthy environment.

PERMIT CONDITIONS

West Virginia Code §22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

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.
4. This well is under a consent order and must be plugged under the terms of that agreement.

4701337P

CK 17838
100⁰⁰

7-8-14

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

Date: _____
Operator's Well _____
Well No. 793817 WC 3821 GP
API Well No.: 47 ~~109~~ - 01337
047

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: 2328' Watershed: Aldrich Fork
Location: Sandy River County: McDowell Quadrangle: Bradshaw 7.5
District: _____

6) Well Operator EQT Production Company 7) Designated Agent: Rex C. Ray
Address: 120 Professional Place Address: 120 Professional Place
Bridgeport, WV 26330 Bridgeport, WV 26330

8) Oil & Gas Gary Kennedy 9) Plugging Contractor:
Name: P.O. Box 268 Name: HydroCarbon Well Service
Address: Nimitz, WV 25978 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.

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 7/16/14

PLUGGING PROGNOSIS

793817 WVC 3821

McDowell COUNTY, WEST VIRGINIA

API # 47-047-01337

BY: Beau Fry

DATE: 3/20/14

CURRENT STATUS:

12 3/4" csg @ 20' Grouted
 8 5/8" csg @ 303' cmt w/ 94cu ft CTS
 4 1/2" csg @ 2161' cmt w/ 305 cu ft CTS
 2 3/8" tubing @ 2104'
 5/8" rods @ 2100' - 84 rods

Oil Shows - None Reported FW Shows - None Reported Gas shows - None Reported

Coal shows -

304', 443', 460', 913', 970', 1042', 1066', 1193', 1388', 1462', 1508', 1638', 1658', 1701', 1889', 2000', 2012'.

Coal Stimulation: Hole perforated @ 1385'-1895'

1. Notify State Inspector, Gary Kennedy, 1-304-382-8402, 48 hrs prior to commencing operations.
2. TOOH w/ 5/8" rods.
3. TOOH w/ tubing and check condition.
4. TIH w/ tubing to 2000' or deeper, Set ~~1000'~~ CIA cement plug @ 2000' to 1000'. (Lower coal seams Perfs).
- ★ 5. TOOH w/ tubing let cement cure.
- ★ 6. TIH w/ tubing check Cement top and set CIA Cement from Cement top to Surface totally filling remainder of well w/ cement (Coal Stimulation zones, (8 5/8" csg pt, 13 3/8" 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

- BOTTOM HOLE PLUG MUST BE EXPANDING CEMENT FROM TD TO 100' ABOVE HIGHEST WORKABLE COAL SEAM, WHICH IS FIRE CREEK (1385'-1387'). THEREFORE, TOP OF EXPANDING CEMENT MUST BE 1285' OR HIGHER.
- FREEPOINT 4 1/2". CUT & REMOVE 4 1/2" CASING FROM ≈ 1200' TO SURFACE.
- ★ • SET CIA CEMENT PLUG FROM 1285' TO SURFACE.

JK

JRM
10/21/14

RECEIVED
WR-3 Office of Oil & Gas
Permitting
SEP 27 1999
WV Division of
Environmental Protection

24-Apr-98
API # 47- 47-01337 C

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

Reviewed: [Signature]

Well Operator's Report of Well Work

Farm name: GEORGIA-PACIFIC CORP. Operator Well No.: 3821

LOCATION: Elevation: 2,331.00 Quadrangle: BRADSHAW

District: SANDY RIVER County: MCDOWELL
Latitude: 7497 Feet South of 37 Deg. 20Min. 0 Sec.
Longitude 2637 Feet West of 81 Deg. 47 Min. 30 Sec.

Company: EQUITABLE RESOURCES EXP.
1989 E. STONE DR., P.O. BOX 1983
KINGSPORT, TN 37662-1983

Agent: DAVID A. DEAN

Inspector: OFIE HELMICK
Permit Issued: 04/27/98
Well work Commenced: 5/24/99
Well work Completed: 7/8/99
Verbal Plugging
Permission granted on: N/A
Rotary Cable Rig GASCO #1
Total Depth (feet) LTD=2200 DTD=2210
Fresh water depths (ft) N/A
Salt water depths (ft) N/A

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
12 3/4	20	20	GROUTED
8 5/8	303	303	94
4 1/2	2161	2161	305
2 3/8	2129	2129	---

Is coal being mined in area (Y/N)? NO
Coal Depths (ft): 304/443/460/913/970/1042
1066/1193/1388/1462/1508/1638/1658/1701/1889
2000/2012
OPEN FLOW DATA

Producing formation POCO 7,6-R,6,5,5-L,4 & 3 Pay zone depth (ft) 1636-1895
Gas: Initial open flow N/A MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow 17 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests 6 Hours
Static rock Pressure 260 psig (surface pressure) after 48 Hours

Second producing formation FIRECREEK, POCO968 Pay zone depth (ft) 1385-1508.
Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d
Final open flow MCF/d Final open flow Bbl/d
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: Michael P Jaskoski
EQUITABLE RESOURCES EXP. INC.
By: MICHAEL P JASKOSKI, MANAGER DRILLING/WORKOVER
Date: SEPTEMBER 22, 1999

Bradshaw 5

API #: 47-047-01337 C
 OPERATOR WELL #: WVC3821
 FARM NAME: GEORGIA PACIFIC CORP

- 1) DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

RECEIVED
 Office of Oil & Gas
 Permitting
 SEP 27 1999
 WV Division of
 Environmental Protection

1ST STAGE - PERFORATED POCO SEAMS # 7,6-R,6,5,5-L,4 & 3 FROM 1636 - 1895 WITH 12 PERFORATIONS. FRACTURED ON 6/10/99 BY HALLIBURTON WITH 70Q LE FOAM; 14493# 12/20 SAND, 595000 SCF N2, 465 TOTAL BBLS FLUID. BREAKDOWN PRESSURE 1718 PSI, MAX PRESSURE 4069 PSI, AVERAGE PRESSURE 3818 PSI, ISIP 1850 PSI, 1 MIN SIP 1190 PSI, 5 MIN SIP 996 PSI. AVERAGE INJECTION RATE 27.5 BPM..

2ND STAGE - PERFORATED FIRECREEK, POCO 9 & 8 FROM 1385 - 1508.5 WITH 12 PERFORATIONS. FRACTURED ON 6/10/98 BY HALLIBURTON WITH 70Q LE FOAM; 16158# 12/20 SAND, 724000 SCF N2. BREAKDOWN PRESSURE 2469, MAX PRESSURE 4003 PSI, AVERAGE PRESSURE 3696 PSI, ISIP 1719 PSI, 1-MIN SIP 1705 PSI, 5-MIN SIP 1682 PSI. AVERAGE INJECTION RATE 26.75 BPM

- 2) THE WELL LOG, WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

SAND, SHALE & THIN COALS	0	1385
• FIRECREEK	1385	1387
SAND, SHALE & THIN COALS	1387	1459
• POCO #9	1459	1461
SAND, SHALE & THIN COALS	1461	1507
POCO #8	1507	1508
SAND, SHALE & THIN COALS	1508	1636
POCO #7	1636	1637
SAND, SHALE & THIN COALS	1637	1659
• POCO #6-RIDER	1659	1661
SAND, SHALE & THIN COALS	1661	1698
POCO #6	1698	1699
SAND, SHALE & THIN COALS	1699	1745
POCO #5	1745	1746
SAND, SHALE & THIN COALS	1746	1791
POCO #5-LEADER	1791	1838
SAND, SHALE & THIN COALS	1791	1839
POCO #4	1838	1839
SAND, SHALE & THIN COALS	1839	1895
POCO #3	1895	1896
SAND, SHALE & THIN COALS	1896	2200

LOGGER'S TOTAL DEPTH
 DRILLER'S TOTAL DEPTH

RECEIVED
 Office of Oil and Gas
 JUL 08 2014
 WV Department of
 Environmental Protection

4701337 P

(NAD 27 Datum)
N 114893.2977
E 1767094.0976
Latitude 37 18 45.9484
Longitude 81 48 02.8231

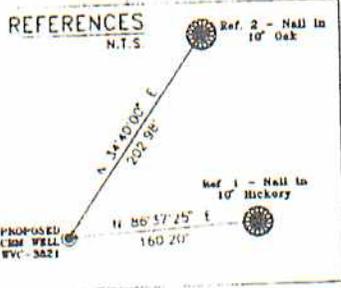
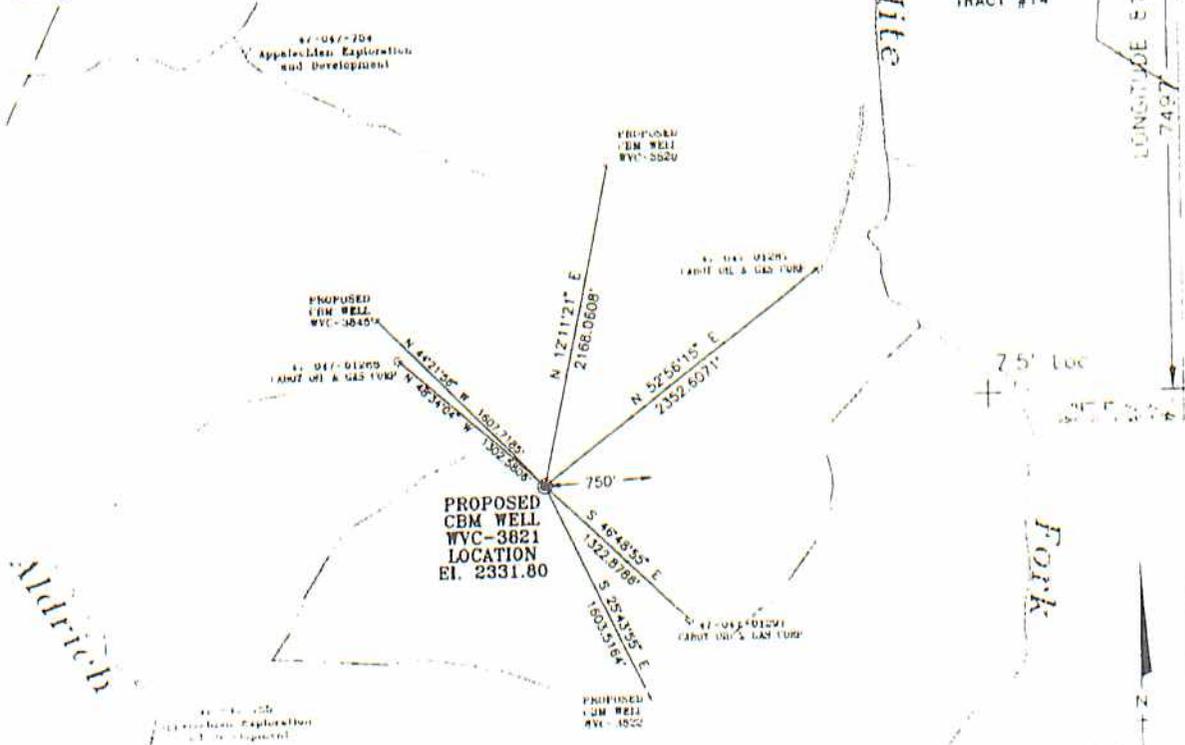
James
4/29/98

2650'

LA 111111 37° 20' 00"

GEORGIA PACIFIC CORPORATION TRACT #14

LONGITUDE 81° 48' 30"



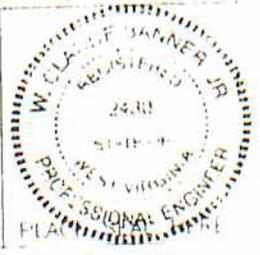
GEORGIA PACIFIC CORPORATION - SURFACE AND COAL LEASE # 497889 TRACT # 15 5,129.68 ACRES
 POCAHONTAS LAND CORPORATION - OIL & GAS ONLY
 CABOT OIL AND GAS CORPORATION - OIL & GAS LESSEE
 NATIONAL MINES CORPORATION - COAL LESSEE

Note: No water users are known within 1000' of location
 (+) Denotes location of well on USGS map

FILE No. ERE 980203/SF
 DRAWING NAME WVC-3821/CW-PLAT
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 : 2500
 PROVEN SOURCE OF ELEVATION USGS B.M. W-191-1958

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) *Al Claude*
 R.P.E. _____ R.P.S. _____



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

DATE FEBRUARY 5 19 98
 OPERATOR'S WELL No. WVC-3821
 API WELL No. 47 - 047 01337-C
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS CBM LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION X STORAGE DEEP SHALLOW
 LOCATION ELEVATION 2331.80 WATER SHED ALDRICH FORK OF BRADSHAW CREEK
 DISTRICT SANDY RIVER COUNTY McDOWELL
 QUAD/FANGLE BRADSHAW, WV - VA

RECEIVED
 Office of Oil and Gas
 5879.29

WELL OWNER GEORGIA PACIFIC CORPORATION
 CBM RIGHTS OWNER POCAHONTAS LAND CORPORATION/GEORGIA PACIFIC CORPORATION LEASE No. 497889

PROPOSED WORK DRILL X CONVERT DRILL DEEPER REDRILL FRACTION 8-2014
STIMULATE X PLUG OFF OLD FORMATION PERFORATE NEW
FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY)

WV Department of Environmental Protection
 2215

WELL AND ABANDON CLEAN OUT AND REPLUG
 LABEL FORMATION PENNSYLVANIAN COALS ESTIMATED DEPTH 2215
 WELL OPERATOR EQUILABLE RESOURCES ENERGY COMPANY DESIGNATED AGENT DAVID DEAN
 ADDRESS 1989 EAST STONE DRIVE ADDRESS P.O. DRAWER 40
KINGSPORT, TN 37660 BUCKHANNON, WV 26201

1) Date: 7-8-14
2) Operator's Well Number
793817 WC 3821 GP
3) API Well No.: 47 047 - 01337
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 Heartwood Forestland Fund IV
Address 1512 E Franklin St.
Chappel Hill, NC 27514
(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector Gary Kennedy
Address P.O. Box 268
Nimitz, WV 25978
Telephone 304-382-8402

5) (a) Coal Operator:
Name None
Address _____
(b) Coal Owner(s) with Declaration
Name Natural Resource Partners LP
5260 M Irwin Road
Address Huntington, WV 25705
(c) Coal Lessee with Declaration
Name None
Address _____

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.

RECEIVED



Well Operator: _____
By: _____
Notary Public
Nicholas L. Bumgardner
Rt. 1, Box 4
Liberty, WV 25124
Telephone: _____
My Commission Expires July 27, 2018

EQT Production Company Office of Oil and Gas
Victoria J. Roark
Permitting Supervisor
PO Box 280
Bridgeport, WV 26330
(304) 848-0076
JUL 08 2014

Subscribed and sworn before me this 7 day of JULY 2014
My Commission Expires: 7/27/2018
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.

4701337P

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Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (End)		

Postmark Here

To: **Heartwood Forestland Fund IV**
1512 E. Franklin Street
Chappel Hill, NC 27514
793817 plugging

PS Form 3811, July 2013 See Reverse for Instructions

Heartwood Forestland Fund IV
1512 E. Franklin Street
Chappel Hill, NC 27514
793817 plugging

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

PS Form 3811, July 2013 (Transfer from service label)

2. Article Number: 7014 0510 0000 4438 5174

1. Article Addressed to:
Heartwood Forestland Fund IV
1512 E. Franklin Street
Chappel Hill, NC 27514
793817 plugging

3. Service Type:
 Certified Mail
 Registered
 Insured Mail
 Priority Mail Express™
 Return Receipt for Merchandise
 Collect on Delivery
 Restricted Delivery? (Extra Fee) Yes No

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

A. Signature: _____
 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:

SENDER: COMPLETE THIS SECTION

COMPLETE THIS SECTION ON DELIVERY

RECEIVED
Office of Oil and Gas
JUL 08 2014
WV Department of Environmental Protection

47 01337 P

FIRST CLASS MAIL
\$07.40
ZIP 26330
0411 10228992



CERTIFIED MAIL™



7014 0510 0000 4438 5181
7014 0510 0000 4438 5181

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For delivery information visit our website at www.usps.com

OFFICIAL USE

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

Sent To: **Natural Resource Partners LP**
 5260 Irwin Road
 Huntington, WV 25705
 793817 plugging

PS Form 3800, August 2006 See Reverse for Instructions

Natural Resource Partners LP
5260 Irwin Road
Huntington, WV 25705
793817 plugging

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

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:

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

4. Restricted Delivery? (Extra Fee) Yes No

2. Article Number (Transfer from service label) 7014 0510 0000 4438 5181

PS Form 3811, July 2013 Domestic Return Receipt

1. Article Addressed to:
Natural Resource Partners LP
5260 Irwin Road
Huntington, WV 25705
793817 plugging

- 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.

RECEIVED
Office of Oil and Gas

JUL 08 2014

WV Department of
Environmental Protection

047

**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: Aldrich Fork Quadrangle: Bradshaw 7.5

Elevation: 2328' 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.? 10 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.

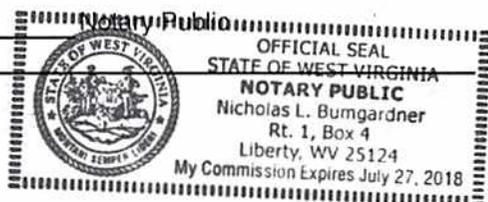
Company Official Signature *Victoria Roark*

Company Official (Typed or Printed) Victoria Roark

Company Official Title Permitting Supervisor-WV

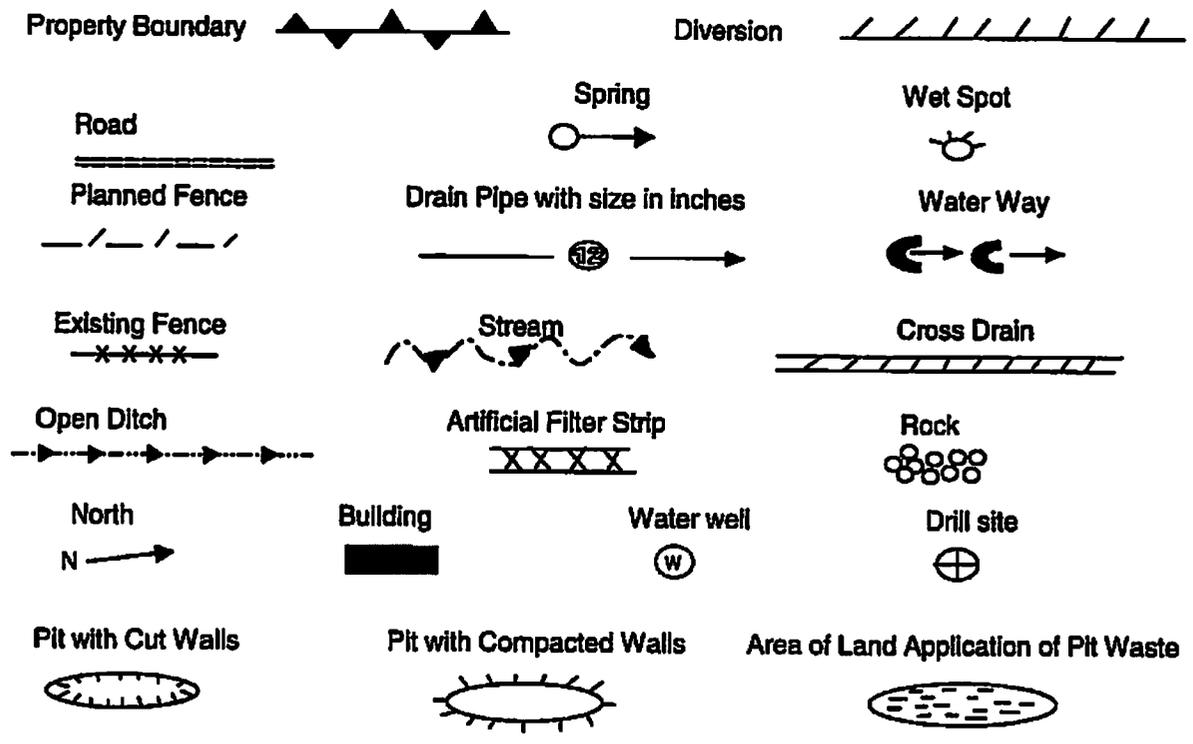
Subscribed and sworn before me this 7 day of JULY, 2014

My Commission Expires 7/27/2018



OPERATOR'S WELL NO.:
793817 WC 3821 GP

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: *Wing Kennedy*

Comments: _____

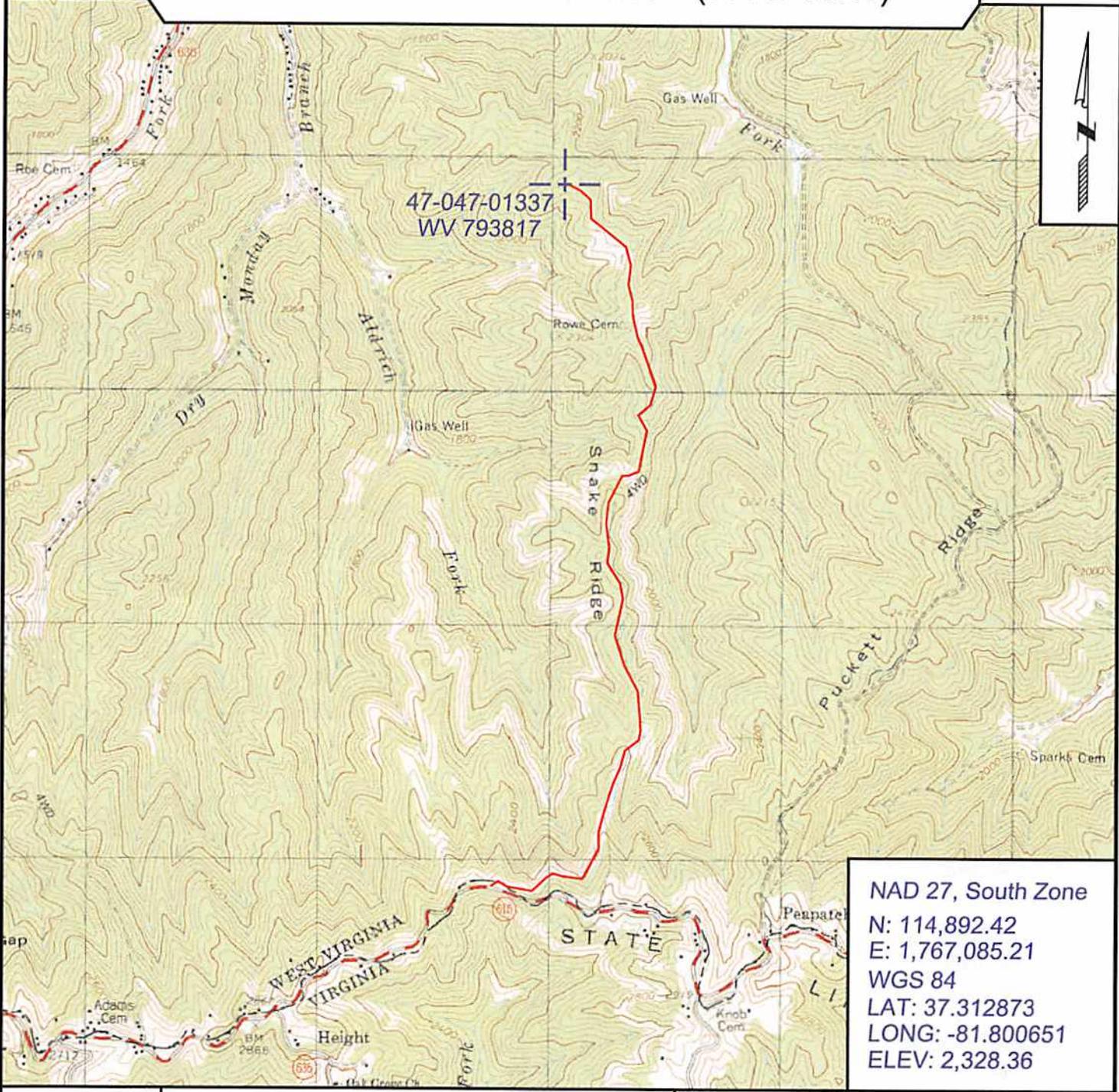
Title: Inspector Date: 7/18/14
Field Reviewed? Yes No

4701337P

Topo Quad: Bradshaw 7.5' Scale: 1" = 2000'
 County: McDowell Date: June 13, 2014
 District: Sandy River Project No: 20-37-00-08

47-047-01337 WV 793817 (WVC-3821)

Topo



NAD 27, South Zone
 N: 114,892.42
 E: 1,767,085.21
 WGS 84
 LAT: 37.312873
 LONG: -81.800651
 ELEV: 2,328.36



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: 47-047-01337 WELL NO.: WV 793817 (WVC-3821)

FARM NAME: Georgia - Pacific Corp.

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: McDowell 47 DISTRICT: Sandy River 6

QUADRANGLE: Bradshaw 7.5' 261

SURFACE OWNER: Heartwood Forestland Fund IV

ROYALTY OWNER: Plum Creek Timberlands LP, et al.

UTM GPS NORTHING: 4129882

UTM GPS EASTING: 429054 GPS ELEVATION: 710 m (2328 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.

Stacy Okun
Signature

PS # 2180
Title

WV Department of
Environmental Protection
6/25/14
Date

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POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY
LEASE NAME AND WELL No. WVC-3821 WV 793817 API No. 47-047-01337

POTENTIAL SAMPLE LOCATIONS

There appears to be no known water samples within the required 1000' of the existing well WV 793817.

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 Center Rd
Alum Creek, WV 25005
phone: 304-756-2949
fax: 304-756-2948

RAVENS OFFICE
407 South Fairfax Blvd, Suite 3
Ranson, WV 25493
phone: 304-724-5008
fax: 304-724-5010

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JUL 08 2014

4701337A

Topo Quad: Bradshaw 7.5'

Scale: 1" = 2000'

County: McDowell

Date: June 13, 2014

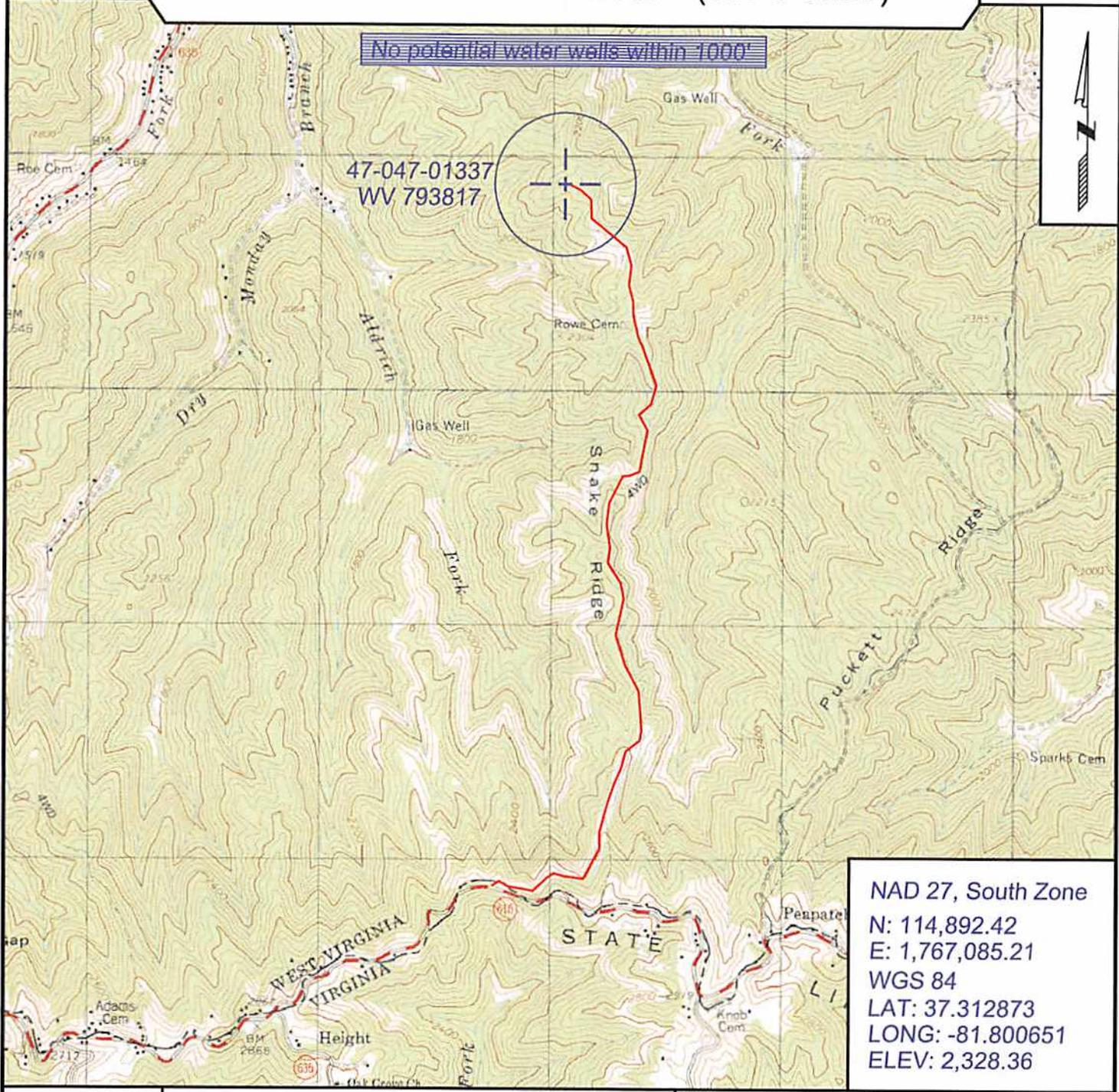
District: Sandy River

Project No: 20-37-00-08

Water

47-047-01337 WV 793817 (WVC-3821)

No potential water wells within 1000'



NAD 27, South Zone
 N: 114,892.42
 E: 1,767,085.21
 WGS 84
 LAT: 37.312873
 LONG: -81.800651
 ELEV: 2,328.36



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