



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 19, 2014

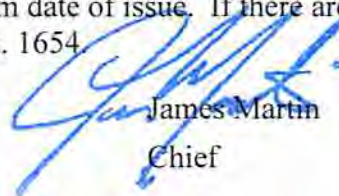
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-3902068, 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: 9
Farm Name: QUARRIER, R. G. - HEIRS
API Well Number: 47-3902068
Permit Type: Plugging
Date Issued: 08/19/2014

Promoting a healthy environment.

08/22/2014

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

Date: June 26, 2014
Operator's Well
Well No. 155750 Quarrier Heirs #9
API Well No.: 47 039 - 02068

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

*ck #
17834
10000*

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: 1067.75 Watershed: Mary Fork
Location: Loudon County: Kanawha Quadrangle: Belle
District: 238

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

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 cover with a minimum of
100 ft phys on all Oil & Gas show Evaluation &
Fresh water zones*

[Signature]
7-7-14

Received

JUL - 2 2014

OFFICE USE ONLY

Office of Oil and Gas
West Virginia Department of Environmental Protection

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

Date

Work order approved by inspector

08/22/2014

PLUGGING PROGNOSIS

Quarrier RG Heirs (155750)

Kanawha County, W.V.
API # 47-039-02068

By: Beau Fry
DATE: 3/24/14

CURRENT STATUS:

- 13 3/8" @ 23' cmt w/ 20 sks
- 9 5/8" @ 1603' cmt w/ 50 sks
- 7" @ 5379' cmt w/ 102 cu ft
- 4 1/2" @ 5675' cmt w/ 75 sks
- 2 3/8" @ ?

*Operable to pull
All Free Pipe*

- Fresh Water @ 280'
- Gas Shows @ 5408'-5430' Newburg Sand , 5606' - 5659' Keefer Sand
- Oil Shows @ None Reported
- Salt Sand top @ Est @ 826'
- Coal @ 261'- 263' ; 279'- 280' ; 417'-419'
- Stimulation @ Frac Limestone show (5411'-5421' perforations) ;

1. Notify inspector, Terry Urban 304-549-5915, 24 hrs. prior to commencing operations.
2. TOOH w/tbg check condition & talley if present.
3. TIH w/ tubing to 5600'; Set 200' C1A Cement Plug @ 5600' to 5400' (Keefer show, 7" csg pt, Limestone perms).
4. TOOH w/ tubing, Free Point 4 1/2" csg, cut 4 1/2" csg @ Free Point, TOOH w/ 4 1/2" csg
5. Set a 100' C1A Cement Plug 50' In/Out of cut. Perf all Salt Sand top, FW, Gas, Oil and Coal shows below the 4.5" cut. Do not omit any plugs shown below.
6. TIH w/ tubing @ 5400'; Set 121' C1A Cement Plug @ 5400' to 5279' (finish covering 7" csg pt and Lime Perfs).
7. TOOH w/ tubing @ 5279', Gel Hole @ 5279' to 4100'.
8. TOOH w/ tubing @ 4100'; Set 100' C1A Cement Plug @ 4100' to 4000' (Insurance plug).
9. TOOH w/ tubing @ 4000', Gel Hole @ 4000' to 2800'.
10. TOOH w/ tubing, Free Point 7" csg, cut 7" csg @ Free Point, TOOH w/ 7" csg
11. Set a 100' C1A Cement Plug 50' In/Out of cut. Perf all Salt Sand top, FW, Gas, Oil and Coal shows below the 7" cut. Do not omit any plugs shown below.
12. TIH w/ tubing @ 2800'; Set 100' C1A Cement Plug @ 2800' to 2700' (Insurance plug).
13. TOOH w/ tubing @ 2700', Gel Hole @ 2700' to 2200'.
14. TOOH w/ tubing @ 2200'; Set 100' C1A Cement Plug @ 2200' to 2100' (Insurance plug).
15. TOOH w/ tubing @ 2100', Gel Hole @ 2100' to 1700'.
16. TOOH w/ tubing @ 1700'; Set 100' C1A Cement Plug @ 1700' to 1600' (9 5/8" csg pt).
17. TOOH w/ tubing @ 1600', Gel Hole @ 1600' to 1000'.
18. TOOH w/ tubing, Free Point 9 5/8" csg, cut 9 5/8" csg @ Free Point, TOOH w/ 9 5/8" csg
19. Set a 100' C1A Cement Plug 50' In/Out of cut. Perf all Salt Sand top, FW, Gas, Oil and Coal shows below the 9 5/8" cut. Do not omit any plugs shown below.
20. TIH w/ tubing @ 1000'; Set 100' C1A Cement Plug @ 1000' to 900' (Elevation Plug, Est Salt Sand plug).
21. TOOH w/ tubing @ 900', Gel Hole @ 900' to 500'.
22. TOOH w/ tubing @ 500'; Set 500' C1A Cement Plug @ 500' to Surface' (3 Coal Shows , 1 FW show, 13 3/8" csg pt).
23. Top off as needed
24. Set monument to WV DEP specs
25. Reclaim Location to WV DEP Specifications.

2a. Gel Hole. PRIOR TO PLUG 1,

*Beau Fry
7-7-14*

Received

JUL - 2 2014



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Miss Shady
Deep Well
Rig Dry
Spudder
Cable Tools
Storage

Quadrangle Peytona
Permit No. Kan 2068

WELL RECORD
6

Oil or Gas Well Gas

Company Pace Bower Construction Co.
 Address 305 Nelson Bldg., Charleston, W. Va.
 Farm Russell G. Quarrier Heirs Acres 1093.13
 Location (waters) Mary Fork of Fourmile Creek
 Well No. 9 KB 1070.75 Size
 Elev. GL 1062.25
 District Loudon County Kanawha In. 3/8" Used in Drilling 23.50 Left in Well 23.50 Packers
 The surface of tract is owned in fee by Lucy S. Quarrier
800 Orchard St. Address Charleston, W. Va. ~~XX~~ 9-5/8" 1603.15 1603.15 Size of
~~XXXX~~ 7" 5379.3 5379.3 Depth set
4-1/2" 5675.85 5675.85
 Drilling commenced 3/28/66
 Drilling completed 4/18-66
 Date Shot Not shot From _____ To _____
 With _____
 Open Flow 10 /10ths Water in _____ Inch
2" Natural _____ Inch
 Volume 492 MCF _____ Cu. Ft.
 Rock Pressure _____ lbs. _____ hrs.
 Oil _____ bbls., 1st 24 hrs.
 WELL ACIDIZED See completion data

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____
See completion data
 COAL WAS ENCOUNTERED AT 261 FEET 263 INCHES
279 FEET 280 INCHES 417 FEET 419 INCHES
 FEET. INCHES. FEET. INCHES

WELL FRACTURED See completion Data

RESULT AFTER TREATMENT 666 MCF
 ROCK PRESSURE AFTER TREATMENT 1750# in 36 hrs.
 Fresh Water at 280' Feet _____ Salt Water _____ Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
LITHOLOGY BASED ON GAMMA LOG EXCEPT WHERE NOTED (ALL MEASUREMENTS FROM K.B.)							
Sandstone			0	10			
Siltstone			10	85			
Shale			85	206			
Sandstone			206	237			
Shale			237	261			
Coal			261	263			
Shale			263	279			
Coal			279	280			
Shale			280	293			
Sandstone			293	325			
Shale			325	342			
Sandstone			342	369			
Shale			369	394			
Sandstone			394	417			
Coal (Drillers)			417	419			
Shale			419	430			
Sandstone			430	466			
Shale			466	530			
Sandstone			530	540			
Shale			540	559			
Siltstone			559	574			
Shale			574	582			
Sandstone			582	614			
Shale			614	619			
Sandstone			619	709			
Shale			709	711			
Sandstone			711	730			
Shale			730	737			
Sandstone			737	819			

Fractured
Hole wet at 280 (Drillers)



(over) Continued

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Shale			819	826			
Sandstone			826	1018			
Shale			1018	1021			
Sandstone			1021	1025			
Shale			1025	1028			
Sandstone			1028	1053			
Shale			1053	1062			
Sandstone			1062	1067			
Shale			1067	1130			
Sandstone			1130	1163			
Red Rock			1163	1208			
Sandstone			1208	1254			
Shale			1254	1256			
Sandstone			1256	1261			
Siltstone and Shale			1261	1301			
Little Lime			1301	1373			
Big Lime			1373	1560			
Injun			1560	1583			
Slate and Shells			1583	2007			
Berea			2007	2009			
Shale			2009	4612			
Marcellus			4612	4640			
Onondaga			4640	4739			
Oriskany			4739	4748			
Limestone and Dolomite			4748	5408			
Newburg			5408	5430			
							Gas 5416-21 (Drilling Time and Baroid "Sniffer") 10/10 M-2" 492 MCF
Dolomite			5430	5573			
Limestone			5573	5606			
Keefer			5606	5659			
Shale (Gray)			5659	5667			Show gas 5620 and 5630 ("Sniffer")
Shale (Red)			5667	5684			
T.D.			5684				(Logger and Driller)

Esokan
Berea & Injun
Brown Shale
Oriskany

DRILLING DATA

Air 0 - 295
 Foam 295 - 1620
 Air 1620 - 5250
 Mud 5250 - 5395
 Air 5395 - 5684 T.D.

Date May 11, 1966
 APPROVED H. B. [Signature] Owner
 By President (Title)

Ken 2068

CHRONOLOGICAL SEQUENCE OF EVENTS

- 3/28/66 - Commenced Drilling
- 3/28/66 - Ran 23-1/2' of 13" and cemented with 20 sacks
- 4/3/66 - Ran 1603.15' of 9-5/8" with guide shoe and 2 centralizers - cemented with 50 sacks cement and 10 gallons of "Resiment".
- 4/15/66 - Ran 5379.3' of 7" with guide shoe, differential float collar and 4 centralizers - Cemented with 102 cubic feet of cement.
- 4/18/66 - Logged well (Birdwell) -

Gamma Ray (1" and 5") 0 - 2060 and 4550 - 5671
 Density (5") 5390 - 5683
 Temperature (5") 5350 - 5684

- 4/19/66 - Ran 5675.85' of 4-1/2" with casing shoe, float collar and 4 centralizers - Cemented with 75 sacks expandable.
- 4/23/66 - Cement Bond Log and Perforated 5411 - 5421 with 10- 3-5/8" "Selecto Jets" (Birdwell)

4/24/66 - Acidized well (Dowell):

1200 gallons XFW
 2000 gallons Mud Acid
 800 gallons Alcohol

Handwritten signature and date:
 7-7-14

4/27/66 - Fraced well (Dowell):

628 BBLs. Water
 12,000 lbs. 20-40 Sand
 750 gallons Isoprophyl Alcohol
 150,000 SCF Nitrogen

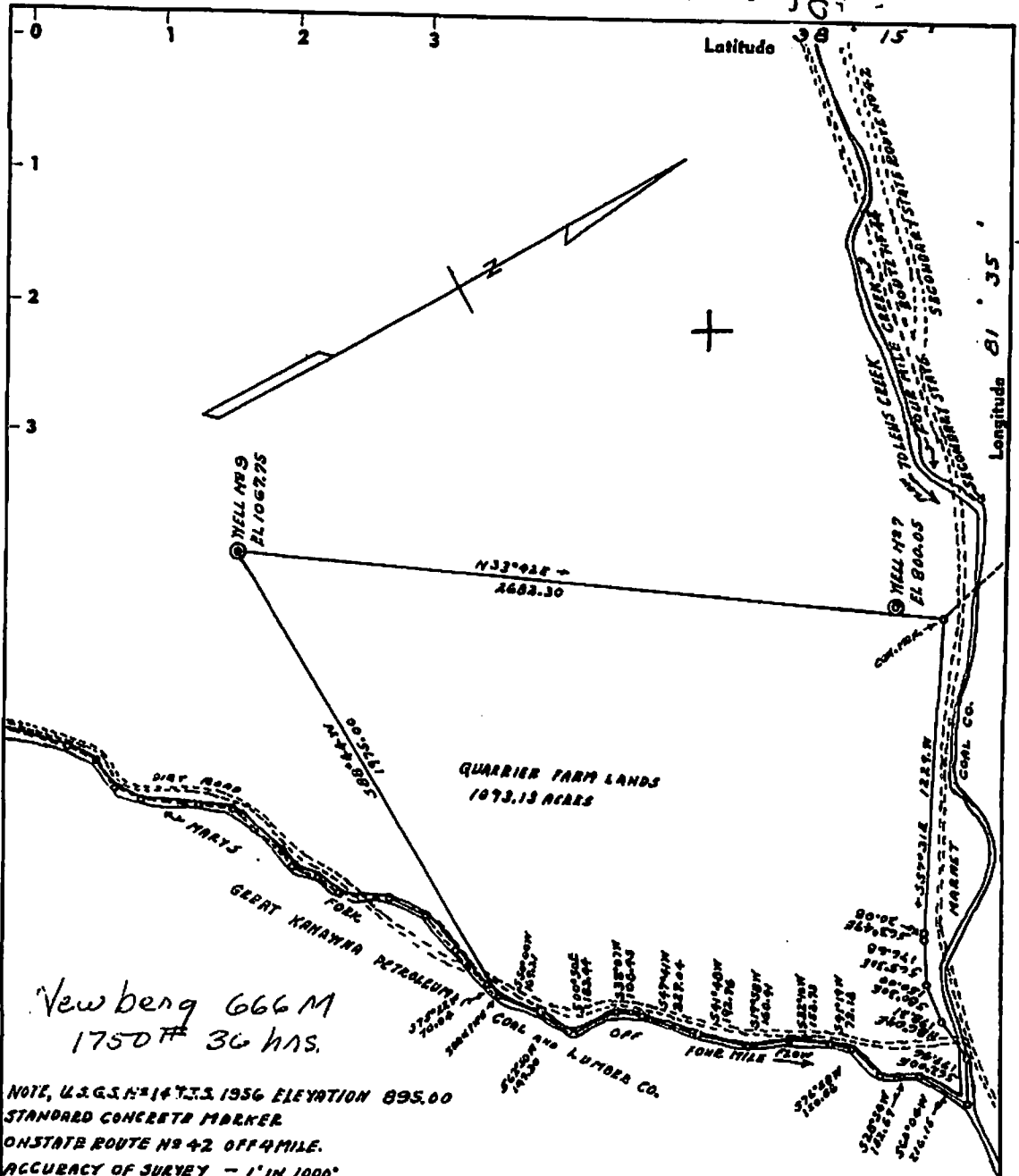
Average Liquid Injection rate - No. 1
 Adjusted Injection Rate = 16.5
 Maximum Pressure - 4900#
 Average Pressure - 4878#

Natural Open Flow - 492 MCF
 After Frac Flow - 666 MCF

F.O.F. = 666 MCF and 1750# in 36 hours



2.2 11750
3902068P



Newberg 666 M
1750# 36 HAS.

NOTE, U.S.G.S. #1473.3 1956 ELEVATION 895.00
STANDARD CONCRETE MARKER.
ON STATE ROUTE NO 42 OFF 4 MILE.
ACCURACY OF SURVEY - 1" IN 1000'

- New Location .
- Drill Deeper
- Redrill
- Abandonment

"I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."

Company PAER BOWEN CONSTRUCTION COMPANY
 Address ROOM 308 NELSON BUILDING CHARLESTAN WVA
 Farm QUARRIER
 Tract Acres 1073.13 Lease No. _____
 Well (Farm) No. 9 Serial No. _____
 Elevation (Spirit Level) 1067.75
 Quadrangle PRYTONA
 County HANAWHA District LOUDEN
 Engineer Geo. H. Miller
 Engineer's Registration No. 1892
 File No. _____ Drawing No. _____
 Date MARCH 21 1966 Scale 1" = 500'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
WELL LOCATION MAP
 FILE NO. KAN-2068

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.
 - Denotes one inch spaces on border line of original tracing.

08/22/2014

- 1) Date: June 26, 2014
- 2) Operator's Well Number
155750 Quarrier Heirs #9
- 3) API Well No.: 47 039 - 02068
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**

<p>4) Surface Owner(s) to be served:</p> <p>(a) Name <u>John Betts & Kenneth Northrop</u> Address <u>P.O. Box 2361</u> <u>Jasper, AL 35501</u></p> <p>(b) Name _____ Address _____</p> <p>(c) Name _____ Address _____</p> <p>6) Inspector <u>Terry Urban</u> Address <u>P.O. Box 1207</u> <u>Clendenin, WV 25045</u> Telephone <u>304.549.5915</u></p>	<p>5) (a) Coal Operator: Name <u>None</u> Address _____</p> <p>(b) Coal Owner(s) with Declaration Name <u>John Betts & Kenneth Northrop</u> <u>P.O. Box 2361</u> Address <u>Jasper, AL 35501</u></p> <p>(c) Coal Lessee with Declaration Name <u>Pritchard Mining Co Inc</u> Address <u>Bruce Vest</u> <u>P.O. Box 3311</u> <u>Charleston, WV 25333</u></p>
---	---

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.

Subscribed and sworn before me this 30 day of June, 2014
My Commission Expires: 8-24-22

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

RECEIVED
Office of Oil and Gas
WV Department of Environmental Protection
08/22/2014

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.

3902068P

neopost
05/30/2014
FIRST CLASS PERMIT
\$07.40
ZIP 26330
041L10228892



CERTIFIED MAIL™



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OFFICIAL USE

Postage	\$	Postmark Here
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement)		
Total Postage		
Sent To Pritchard Mining Co Inc. Bruce Vest P.O. Box 3311 Charleston, WV 25333		
Street, Apt. # or PO Box N		155750 Plugging
City, State, Zip		

PS Form 3800, August 2006 See Reverse for Instructions

SENDER: COMPLETE THIS SECTION

- 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.

1. Article Addressed to:

Pritchard Mining Co Inc.
Bruce Vest
P.O. Box 3311
Charleston, WV 25333

155750 Plugging

2. Article Number
(Transfer from service label)

7014 0510 0000 4438 8977

PS Form 3811, July 2013

Domestic Return Receipt

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
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)

RECEIVED
Office of Oil and Gas

WV Department of
Environmental Protection
JUL 02 2014
08/22/2014

EQT

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

3902068P

1115

\$

Z
041

neopost

06/30/2014

US POSTAGE



Kenneth Northrop
1
35501

U.S. Postal Service™
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OFFICIAL USE



7014 0510 0000 4438 8991
7014 0510 0000 4438 8991

Postage	\$	Postmark Here
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement)		
Total Pos		
Sent To John Betts & Kenneth Northrop P.O. Box 2361 Jasper, AL 35501		
Street, Apt. or PO Box	155750 Plugging	
City, State, ZIP+4		

PS Form 3800, August 2006

See Reverse for Instructions

SENDER: COMPLETE THIS SECTION

- 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.

1. Article Addressed to:

John Betts & Kenneth Northrop
P.O. Box 2361
Jasper, AL 35501 ✓

155750 Plugging

2. Article Number **7014 0510 0000 4438 8991**
(Transfer from service 1...)

PS Form 3811, July 2013

Domestic Return Receipt

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

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

4. Restricted Delivery? (Extra Fee) Yes

08/22/2014

EQT

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

3902068P

EQT

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

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



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06/30/2014
US POSTAGE

RECEIVED
Office of Oil and Gas
JUL 08 2014

WV Department of
Environmental Protection
08/22/2014

WW-9
Revised 2/03

Page ____ of ____
2) Operator's Well Number
155750 Quarrier Heirs #9
3) API Well No.: 47 039 - 02068

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: Mary Fork Quadrangle: Belle
Elevation: 1067.75 County: Kanawha District: Loudon

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:
X 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.

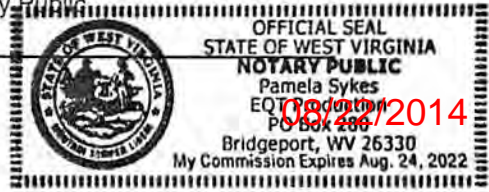
Company Official Signature *Victoria Roark*

Company Official (Typed or Printed) Victoria Roark

Company Official Title Permitting Supervisor-WV

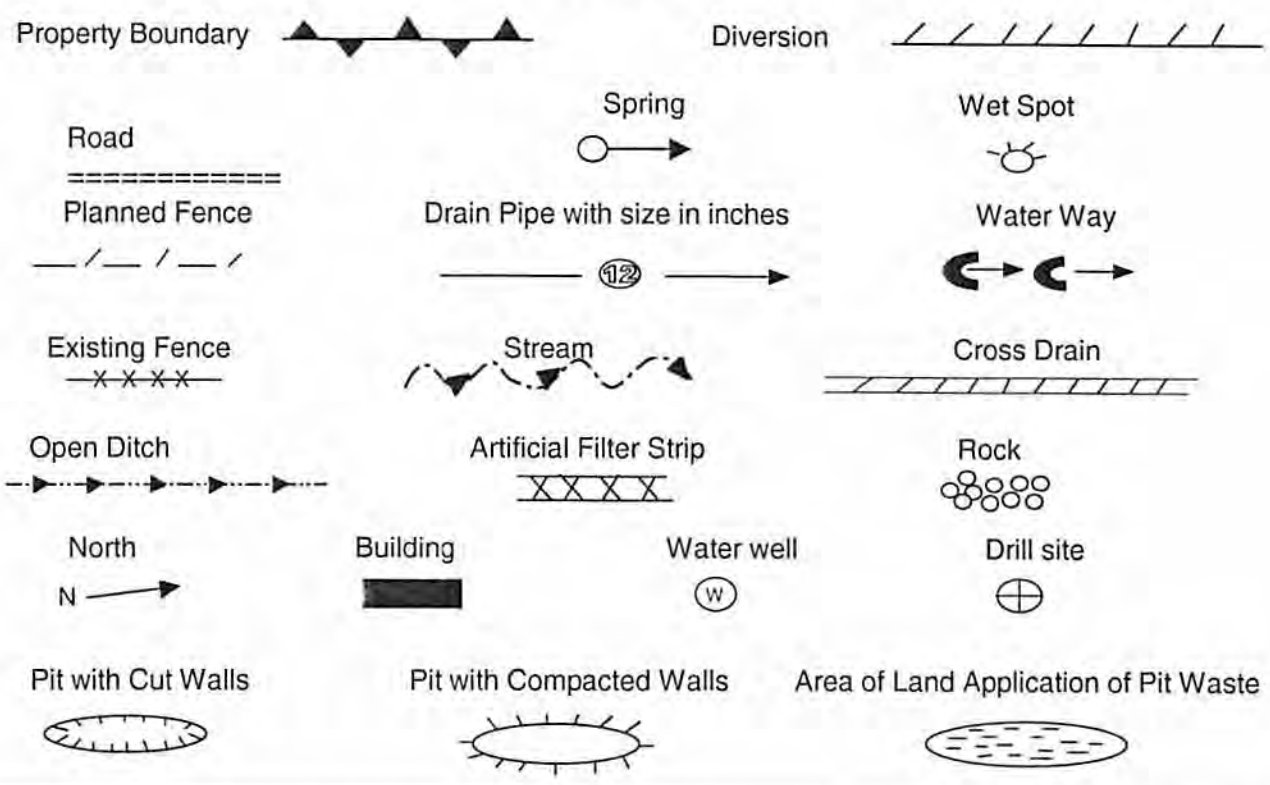
Subscribed and sworn before me this 30 day of June, 2014

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



OPERATOR'S WELL NO.:
155750 Quarrier Heirs #9

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: _____

Comments: *Inspect all clovs*

Title: *Inspect all clovs* Date: *7-7-14*
 Field Reviewed? Yes No

Topo Quad: Belle 7.5'

Scale: 1" = 2000'

County: Kanawha

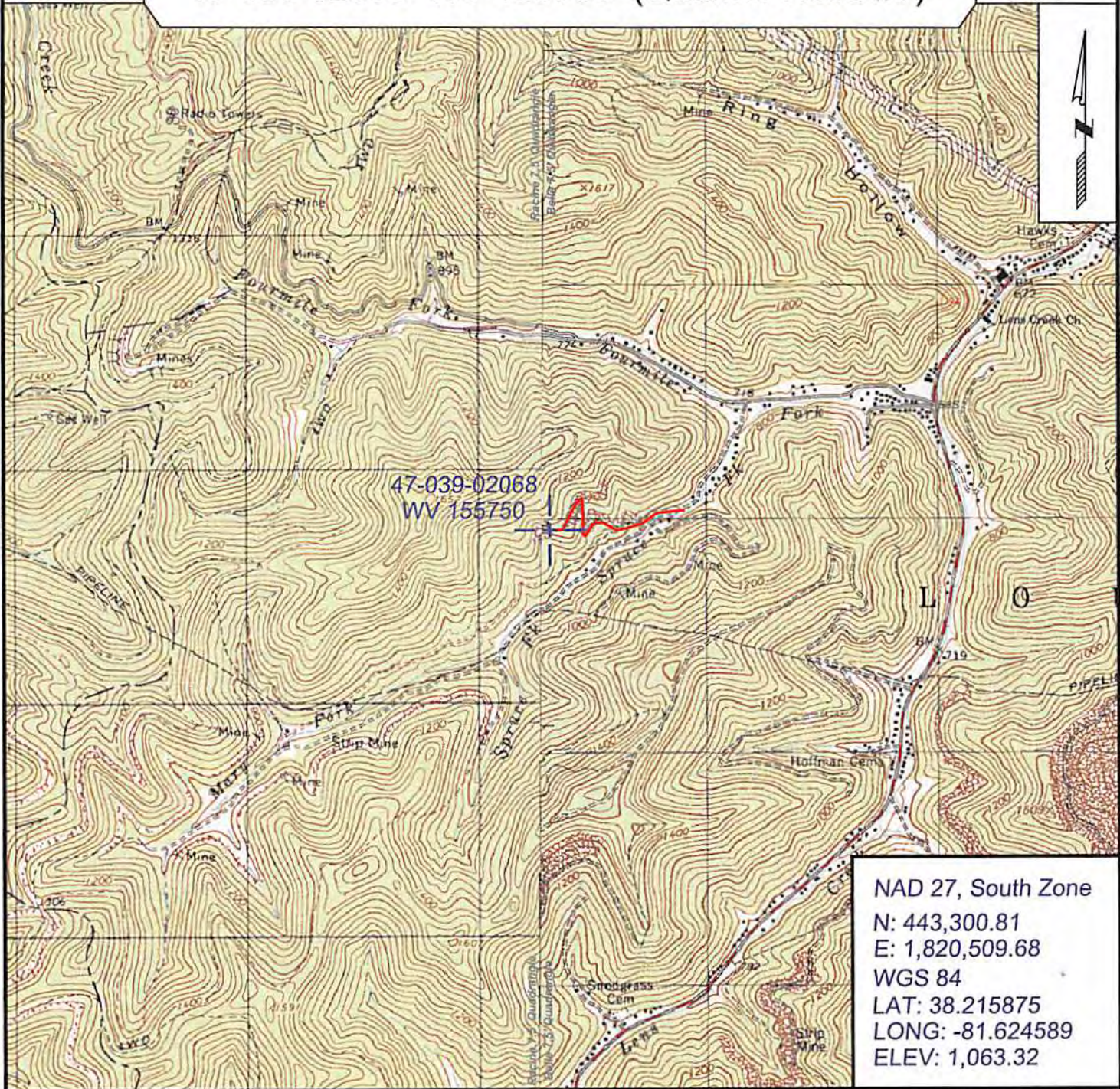
Date: May 13, 2014

District: Loudon

Project No: 52-14-00-07

47-039-02068 WV 155750 (Quarrier Heirs #9)

Topo



47-039-02068
WV 155750

NAD 27, South Zone
 N: 443,300.81
 E: 1,820,509.68
 WGS 84
 LAT: 38.215875
 LONG: -81.624589
 ELEV: 1,063.32



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: 47-039-02068 WELL NO.: WV 155750 (Quarrier Heirs #9)

FARM NAME: R. G. Quarrier Heirs

RESPONSIBLE PARTY NAME: EOT Production Company

COUNTY: Kanawha DISTRICT: Loudon

QUADRANGLE: Belle 7.5'

SURFACE OWNER: Jon Betts and Kenneth Northrop

ROYALTY OWNER: SBN Inc., et al.

UTM GPS NORTHING: 4229952

UTM GPS EASTING: 445324 GPS ELEVATION: 324 m (1063 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 : Post Processed Differential
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 # 2100
Title

RECEIVED
Office of Oil and Gas
Date 6/3/14 JUL 08 2014
WV Department of
Environmental Protection
08/22/2014



POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY
LEASE NAME AND WELL No. Quarrier Heirs #9 - WV 155750 - API No. 47-039-02068

POTENTIAL SAMPLE LOCATIONS

There appears to be no known water samples within the required 1000' of the existing well WV 155750.

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

RECEIVED
Office of Oil and Gas
MUSKOGEE OFFICE
P.O. Box 108 • 1413 Childress Road
Alum Creek, WV 25903
phone: 304-756-2949
fax: 304-756-2948
WV Department of
Environmental Protection

Topo Quad: Belle 7.5'

Scale: 1" = 2000'

County: Kanawha

Date: May 13, 2014

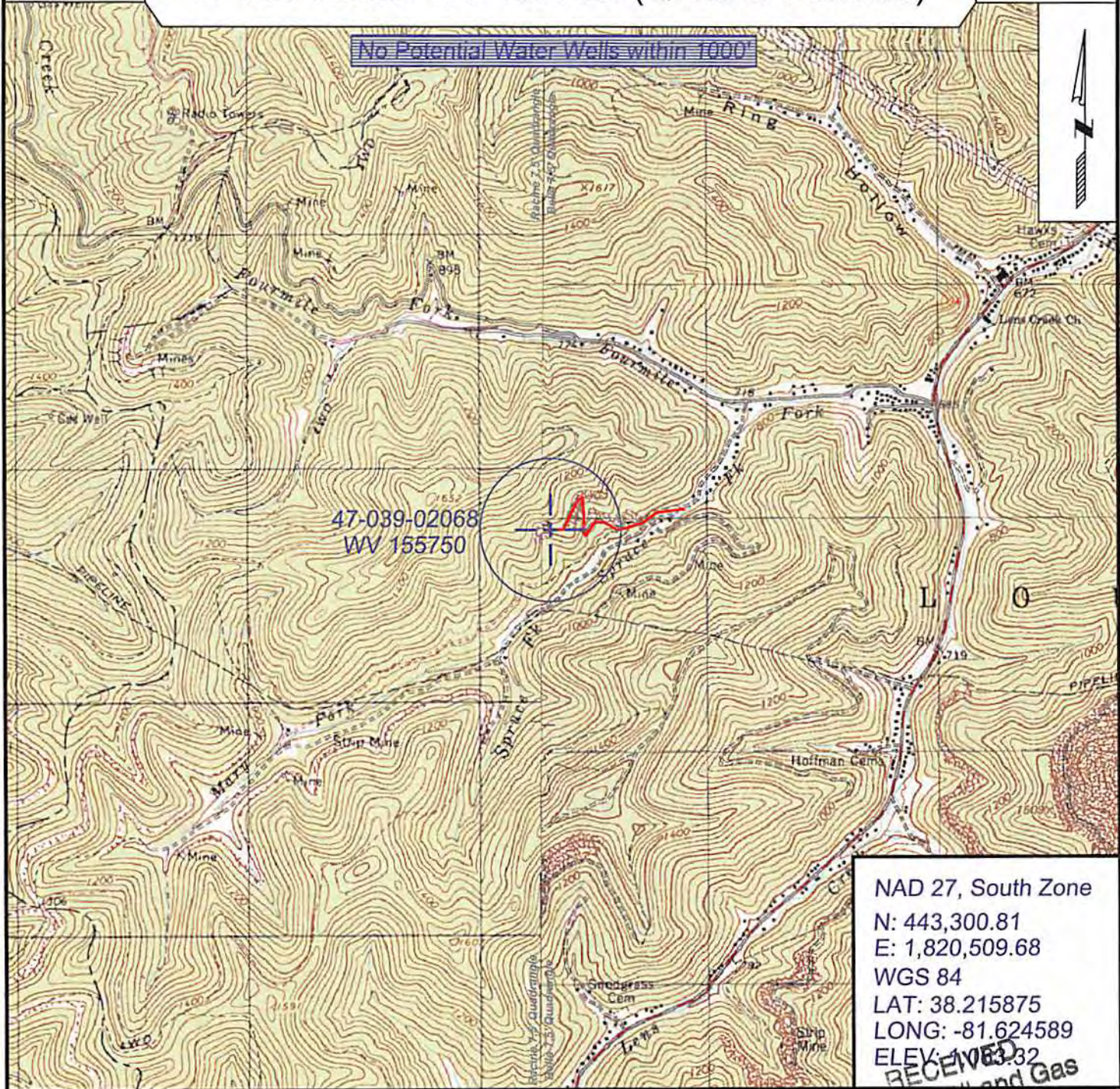
District: Loudon

Project No: 52-14-00-07

Water

47-039-02068 WV 155750 (Quarrier Heirs #9)

No Potential Water Wells within 1000'



47-039-02068
WV 155750

NAD 27, South Zone
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 E: 1,820,509.68
 WGS 84
 LAT: 38.215875
 LONG: -81.624589
 ELEV: 1333.32



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08/22/2014