



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: 47-3903357, 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
Farm Name: ORLANDI, JOSEPH
API Well Number: 47-3903357
Permit Type: Plugging
Date Issued: 08/19/2014

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.

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

Date: June 26, 2014
Operator's Well _____
Well No. 151911 J Orlandi #1
API Well No.: 47 039 - 03357

*ck# 17834
#100⁰⁰*

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: 1029 Watershed: Fields Creek
Location: Cabin Creek County: Kanawha Quadrangle: Belle
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

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 will cover all
oil & gas formation including salt & freshwater*

[Signature]
7-7-14

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 _____

Date _____

Received

JUL - 2 2014

Office of Oil and Gas **08/22/2014**
WV Dept. of Environmental Protection

PLUGGING PROGNOSIS

Joseph Orlandi (151911)

Kanawha, County, W.V.
API # 47-039-03357

BY: Beau Fry
DATE: 3/24/14

CURRENT STATUS:

8 5/8" @ 314' CTS w/ 100 sks
4 1/2" @ 1967' (175 sks)

Elevation @ 1029'

Fresh Water @ None Reported

Gas Shows @ None reported

Oil Shows @ None Reported

Salt Sand top @ Est 960'

Coal @ None Reported

Stimulation @ Frac - Injun Perfs @ 1847'-1851', 1856'-1860'

1. Notify inspector, Terry Urban, 304-549-5915 24 hrs. prior to commencing operations.
2. TIH w/ tubing to 1850'; Set 160' C1A Cement Plug @ 1850' to 1700' (Injun Perfs).
3. TOOH w/ tubing @ 1700', Gel Hole @ 1700' to 1300'.
4. TOOH w/ tubing, Free Point 4.5" csg, cut 4.5" csg @ Free Point, TOOH w/4.5" 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 @ 1300'; Set 100' C1A Cement Plug @ 1300' to 1200' (Insurance plug).
7. TOOH w/ tubing @ 1200', Gel Hole @ 1200' to 1050'.
8. TOOH w/ tubing @ 1050'; Set 200' C1A Cement Plug @ 1050' to 850' (Elevation, Plug).
9. TOOH w/ tubing @ 850'; Gel Hole @ 850' to 600'.
10. TOOH w/ tubing @ 600'; Set 100' C1A Cement Plug @ 600' to 500' (Est top of Salt Sand).
11. TOOH w/ tubing @ 500'; Gel Hole @ 500' to 400'.
12. TOOH w/ tubing @ 400'; Set 400' C1A cement plug @ 400' to Surface'. (8 5/8" csg pt)
13. Top off as needed
14. Set monument to WV DEP specs
15. Reclaim Location to WV DEP Specifications.

Signature
7-7-14

Received

JUL - 2 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

08/22/2014



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Quadrangle Belle
Permit No. Kan 3357

Rotary X Oil _____
Cable _____ Gas X
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind)

Company D. C. Malcolm, Inc.
Address 1006 Commerce Sq., Charleston, W. Va.
Farm Joseph Orlandi Acres 470
Location (waters) Field Creek
Well No. 1 Elev. 1029
District Cabin Creek County Kanawha
The surface of tract is owned in fee by Joseph Orlandi
Address Charleston, W. Va.
Mineral rights are owned by Joseph Orlandi
Address _____
Drilling Commenced 11-30-78
Drilling Completed 12-5-78
Initial open flow _____ cu. ft. _____ bbls.
Final production 230,000 cu. ft. per day _____ bbls.
Well open 5 hrs. before test 430 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			100 SX- Surface
Cond. 13-10"			
9 5/8			
8 5/8	314	314	
7			
5 1/2			
4 1/2	1967	1967	
3			
2			
Liners Used			

Well treatment details:
Frac w/2000 gas F.E. acid, 42000# 20-40 sand, 597 bbls water through
perfs 1847-51, 1856-60

Attach copy of cementing record.

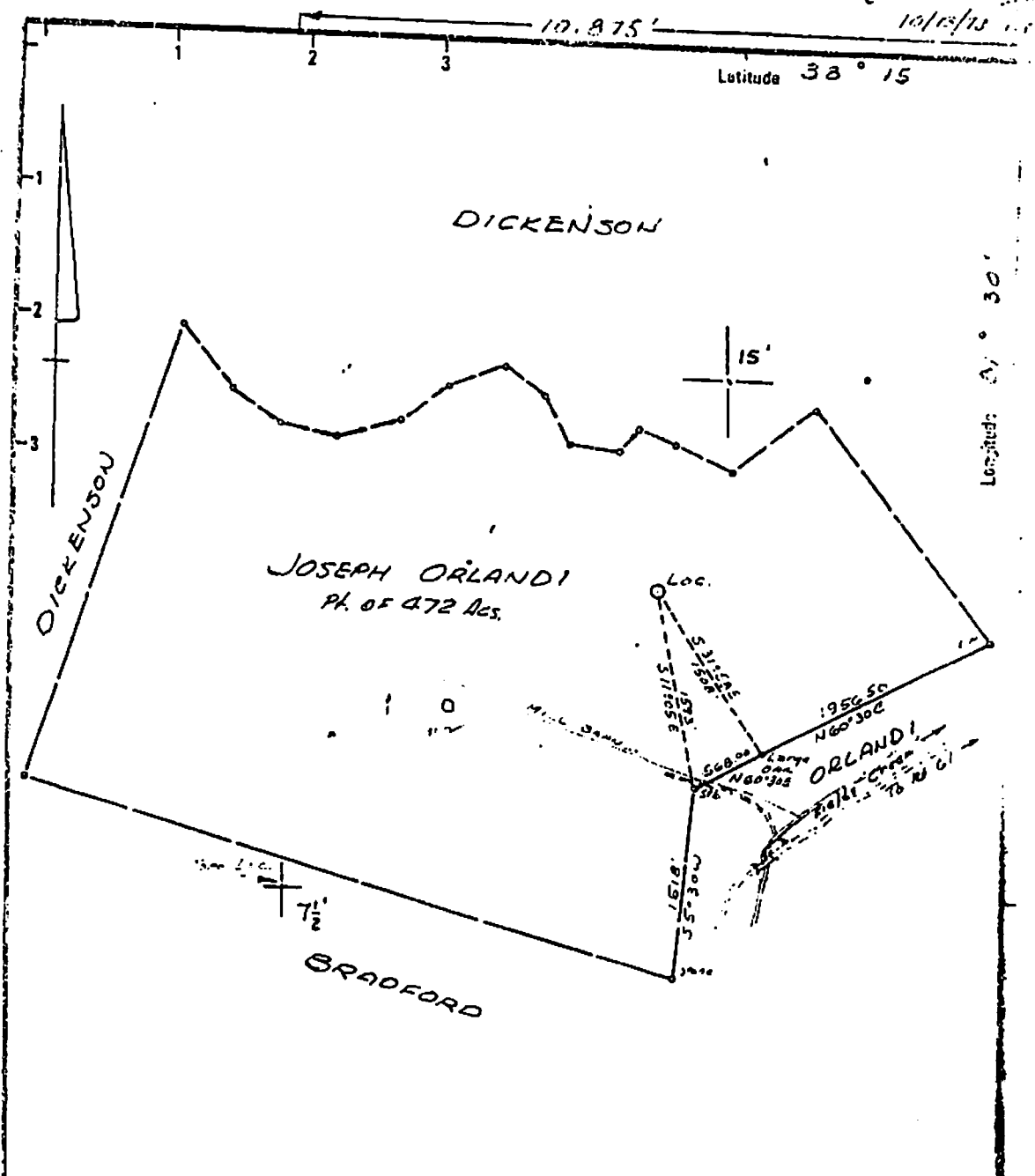
Coal was encountered at _____ Feet _____ Inches
Fresh water _____ Feet _____ Salt Water _____ Feet
Producing Sand Injun Depth 1840-1870

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand & Shale			0	250		
Shale			250	400		
Sand			400	457		
Shale			457	484		
Sand			484	680		
Sand & Shale			680	960		
Sand			960	1212		
Sand & Shale			1212	1354		
Sand (Maxton)			1354	1428		
Shale & Sand			1428	1634		
Lime			1634	1842		
Sand			1842	1873		
Shale & Sand			1873	2226		

Frack with?
Electric MAY - 9 1979
OIL & GAS DIVISION
DEPT. OF MINES
Total Depth
[Signature]
7-7-14

(over)
* Indicates Electric Log tops in the remarks section.

3357P
10/15/78



<p>New Location <input checked="" type="checkbox"/></p> <p>Drill Deeper <input type="checkbox"/></p> <p>Abandonment <input type="checkbox"/></p>	<p>Minimum Error of Closure <u>1 in 200</u></p> <p>Source of Elevation <u>U.S.G.S. Elev. 610' Road Intersection</u> <u>MOUTH OF MILL BRANCH</u></p> <p>"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."</p>
--	--

Company	<u>D.C. MALCOLM, INC.</u>	
Address	<u>1006 Commerce Sq, CHARLESTON, W.Va.</u>	
Farm	<u>JOSEPH ORLANDI</u>	
Tract	<u>Acres 470</u>	Lease No. _____
Well (Farm) No.	<u>1</u>	Serial No. _____
Elevation (Spirit Level)	<u>1029.0</u>	
Quadrangle	<u>7.5' BELLE, PEYTONA 15'</u>	
County	<u>KANAWHA</u>	District <u>CARIN CREEK</u>
Engineer	<u>W. L. Lefton</u>	
Engineer's Registration No.	<u>1832</u>	
File No.	Drawing No. _____	
Date	<u>8-13-78</u>	Scale <u>1" = 1000'</u>

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION
CHARLESTON

WELL LOCATION MAP
FILE NO. KAN-3357

+ Denotes location of well on United States Topographic Maps, scale 1 to 82,500 latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.

47-039 08/22/2014

39 03357A

WW-4-A
Revised 6/07

1) Date: June 26, 2014
2) Operator's Well Number
151911 J Orlandi #1
3) API Well No.: 47 039 - 03357
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 Orlandi Inc
Address P.O. Box 4465
Charleston, WV 25364

(b) Name _____
Address _____

(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 Orlandi Inc
Address P.O. Box 4465
Charleston, WV 25364

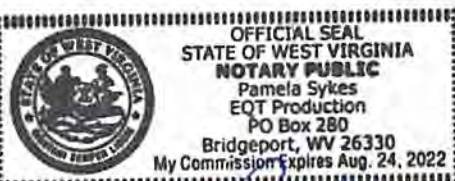
(c) Coal Lessee with Declaration
Name Keystone Industries LLC
Address Anthony Coleman
7801 MacCorkle Ave
Marmet WV 25315

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:
By: _____
Its: _____
Address: _____
Telephone: _____

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

Subscribed and sworn before me this _____ day of _____, 2014.
My Commission Expires: _____

30 day of June, 2014
Notary Public
8-24-22

RECEIVED
Oil and Gas
JUL 02 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 depprivacy@dmw.gov.

08/22/2014

PL5538093

WV Department of Environmental Protection

JUL 08 2014

Office of Oil and Gas

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OFFICIAL USE



7014 0510 0000 4438 8984
7014 0510 0000 4438 8984

Postage	\$	Postmark Here
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total P	Orlandi Inc.	
Sent To	P.O. Box 4465	
Street, Apt or PO Box	Charleston, WV 25364	
City, State	151911 Plugging	

Orlandi Inc.
P.O. Box 4465
Charleston, WV 25364

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:

Orlandi Inc.
P.O. Box 4465
Charleston, WV 25364

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 No
*ES, enter delivery address below;

151911 Plugging

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 8984

08/22/2014

PS Form 3811, July 2013 Domestic Return Receipt

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

3903357P

WV Department of Environmental Protection
Office of Oil and Gas
RECEIVED
JUL 08 2014
06:30
USPS

7014 0510 0000 4438 8960
7014 0510 0000 4438 8960

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
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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	Keystone Industries LLC Anthony Coleman 7801 MacCorkle Ave Marmet, WV 25315	
Sent To	7801 MacCorkle Ave	
Street, or PO E	Marmet, WV 25315	
City, St	151911 Plugging	

PS Form 3800, August 2006 See Reverse for Instructions

Anthony Coleman
7801 MacCorkle Ave
Marmet, WV 25315

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:

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

Keystone Industries LLC
Anthony Coleman
7801 MacCorkle Ave
Marmet, WV 25315

151911 Plugging

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 8960

PS Form 3811, July 2013 Domestic Return Receipt

08/22/2014

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



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

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

08/22/2014

neopost[®]
06/30/2014

US POSTAGE



RECEIVED
Office of Oil and Gas
POST OFFICE

08022

ZIP 26330
06110228

WV Department of
Environmental Protection

17533032

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: Fields Creek Quadrangle: Belle
Elevation: 1029 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.? 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.

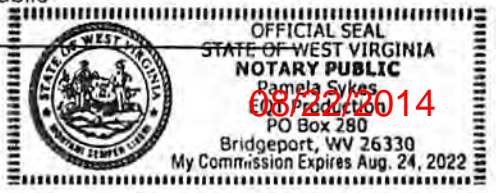
Company Official Signature *Victoria Roark*

Company Official (Typed or Printed) Victoria Roark

Company Official Title Permitting Supervisor-WV

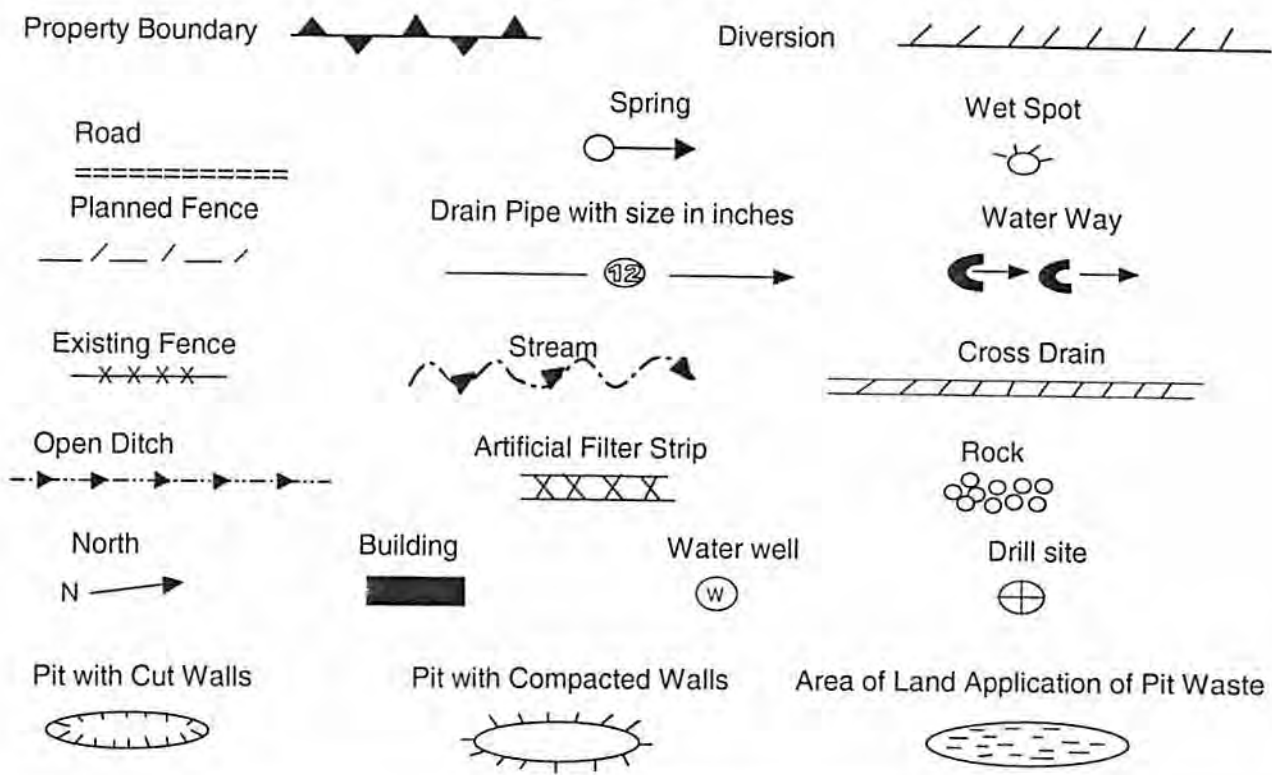
Subscribed and sworn before me this 30 day of June, 2014

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



OPERATOR'S WELL NO.:
151911 J Orlandi #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 [Signature] Date: 7-7-14
 Field Reviewed? Yes No

3903357A

Topo Quad: Belle 7.5'

Scale: 1" = 2000'

County: Kanawha

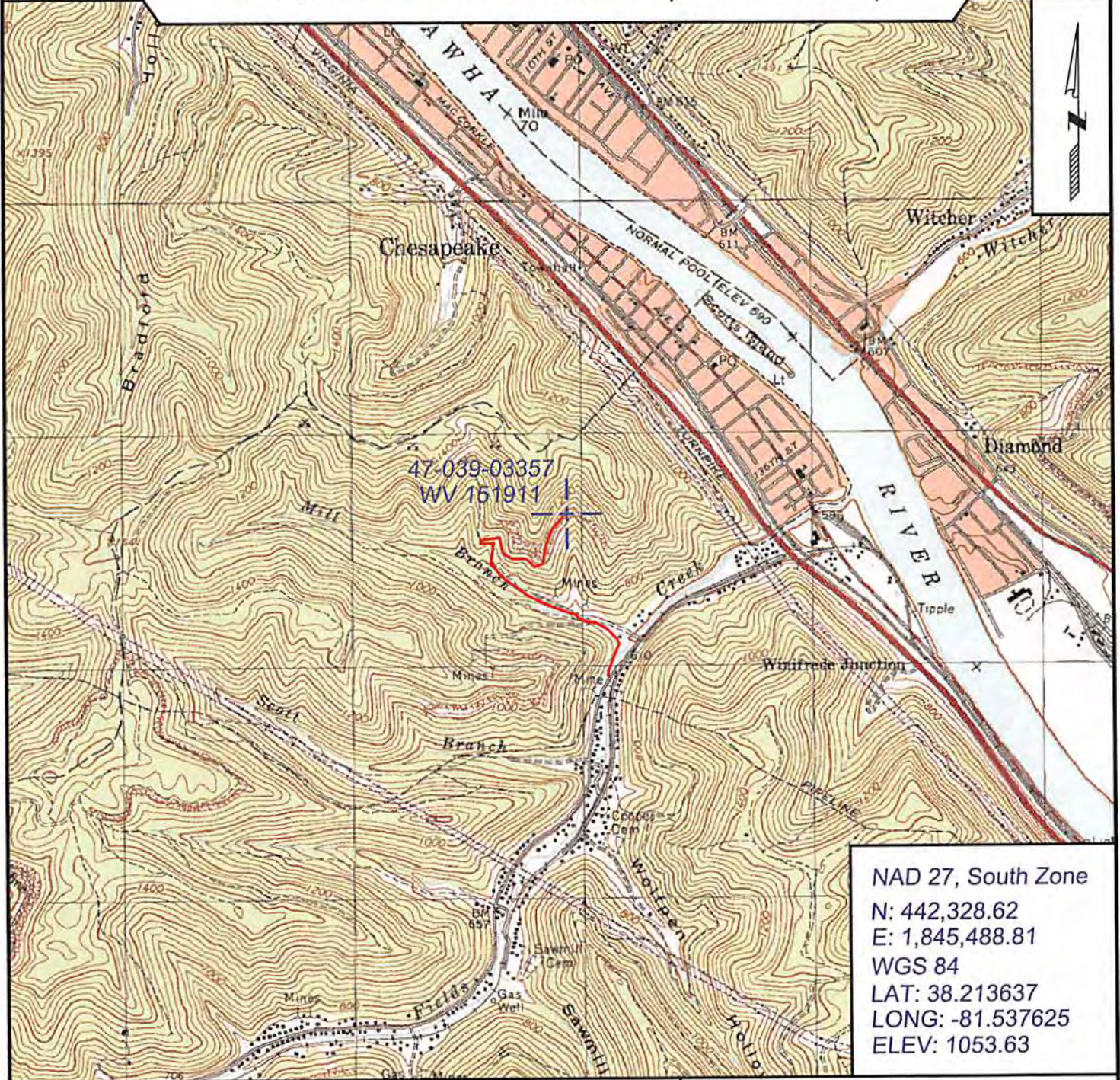
Date: May 12, 2014

District: Cabin Creek

Project No: 52-14-00-07

47-039-03357 WV 151911 (J. Orlandi #1)

Topo



NAD 27, South Zone
 N: 442,328.62
 E: 1,845,488.81
 WGS 84
 LAT: 38.213637
 LONG: -81.537625
 ELEV: 1053.63



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

08/22/2014



POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY
LEASE NAME AND WELL No. J. Orlandi #1 - WV 151911 - API No. 47-039-03357

POTENTIAL SAMPLE LOCATIONS

There appears to be no known water samples within the required 1000' of the existing well WV 151911.

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
ALUM CREEK OFFICE
Box 108 • 1413 Childress Road
Alum Creek, WV 25003
phone: 304-756-2949
fax: 304-756-2948
JUL 17 2014

390 3357P

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

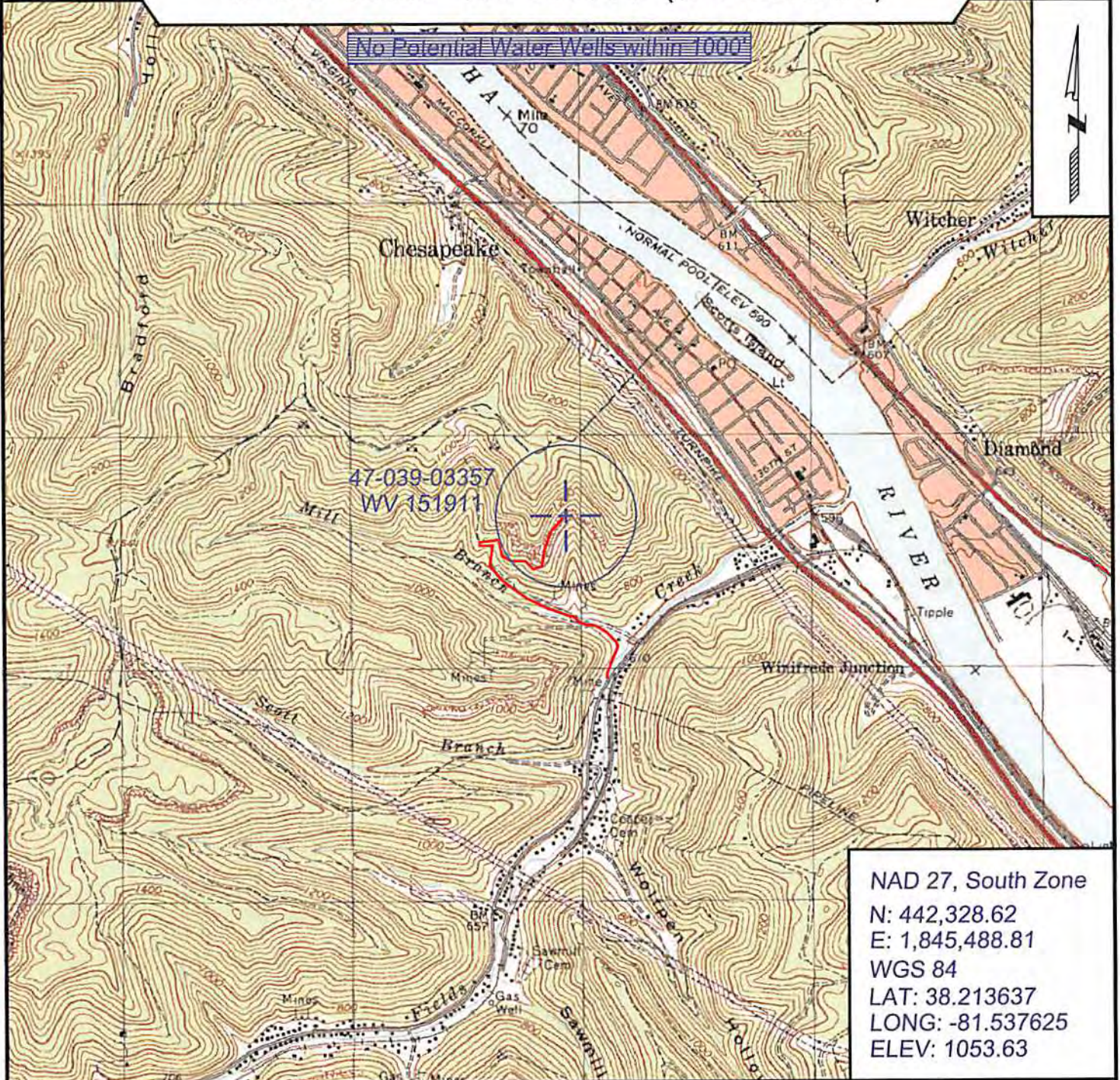
County: Kanawha Date: May 12, 2014

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

Water

47-039-03357 WV 151911 (J. Orlandi #1)

No Potential Water Wells within 1000'



NAD 27, South Zone
 N: 442,328.62
 E: 1,845,488.81
 WGS 84
 LAT: 38.213637
 LONG: -81.537625
 ELEV: 1053.63



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

08/22/2014