



**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 27, 2014

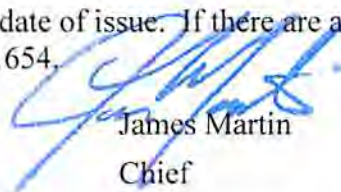
**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-4500820, 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: B-7-1403  
Farm Name: COLE, A. H.  
**API Well Number: 47-4500820**  
**Permit Type: Plugging**  
Date Issued: 08/27/2014

# PERMIT CONDITIONS

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

## CONDITIONS

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

Date: 7-15-14  
Operator's Well  
Well No. 129491(A.Cole B-7)  
API Well No.: 47 045 - 00820

OK 17839  
100<sup>00</sup>

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

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

5) Elevation: 1350' Watershed: Oldhouse Creek  
Location: Island Creek County: Logan Quadrangle: Barnabus 7.5'  
District: \_\_\_\_\_

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

8) Oil & Gas Ralph Triplett 9) Plugging Contractor:  
Name: 5539 McClellan Hwy Name: HydroCarbon Well Service  
Address: Branchland, WV 25506 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.**

OK  
ROT

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

Ralph D. Triplett

Date July 21, 2014



PLUGGING PROGNOSIS

129491 Cole B7

Logan County, West Virginia  
API # 47-045-00820

BY: Chris Hendrick  
DATE: 7/7/14

CURRENT STATUS:

13 3/8" csg @ 17'-9"  
10 3/4" csg @ 530' Midget bottom hole packer at 526' DLM - R/L nipple  
5 3/16" csg @ 2651'  
3 1/2" tubing @ 2793' packer @ 2694'  
TD @ 2818', total depth was 2900' but was filled back with and cement to 2818'

RDT  
7/21/14

Oil Shows - None Reported FW Shows - None reported Coal Shows - 203' 205' Elevation - 1258'  
Gas shows - 2726' - 2821' Big Lime gas show.  
Stimulation: Acidized

1. Notify State Inspector, Ralph Triplett, 1-304-389-0350, 48 hrs prior to commencing operations.
2. Attempt to pull tubing and packer @ 2694' if tubing and packer will not pull TIH w/ wireline @ 2694' and shoot off tubing @ 2694', TOOH w/ tubing and check condition.
3. TIH w/ tubing @ 2694'; set 194' CIA cement plug @ 2694' to 2500'. (3" packer, 5 3/16 csg pt).
4. TOOH w/tubing, Free Point 5 3/16" csg, cut 5 3/16" csg @ free point, TOOH w/ 5 3/16" csg. Perf all 1<sup>st</sup> Salt Sand tops, Gas, Oil, Coal & FW shows below 5 3/16" cut and do not omit any plugs shown.
5. Set 100' CIA cement plug 50' IN/OUT of 5 3/16" cut.
6. TIH w/ tubing @ 2500'; set 100' CIA cement plug @ 2500' to 2400'. (Big Lime Show)
7. TOOH w/ tubing @ 2400'; Gel hole @ 2400' to 1200'.
8. TOOH w/tubing @ 1200'; set 100' CIA cement plug @ 1200' to 1100'. (Elevation Plug)
9. TOOH w/ tubing @ 1100'; Gel hole @ 1100' to 600'.
10. TOOH w/ tubing @ 600'; set 120' CIA cement plug @ 600' to 480'. (10 3/4" csg pt)
11. TOOH w/ tubing @ 480' and Gel hole to 253'.
12. TOOH w/ tubing, Free Point 10 3/4" csg, cut 10 3/4" csg @ free point, TOOH w/ 10 3/4" csg. Perf all 1<sup>st</sup> Salt Sand tops, Gas, Oil, Coal & FW shows below 10 3/4" cut and do not omit any plugs shown.
13. TIH w/ tubing @ 253'; set 253' CIA cement plug to surface. (Coal show, 13 3/8" csg pt)
14. Top off as needed.
15. Set Monument to WV - DEP Specifications
16. Reclaim Location & Roads to WV - DEP Specifications.

WELLBORE MUST BE COMPLETELY FILLED WITH EITHER CLASS A CEMENT PLUGS WITH A MAXIMUM OF 3% CaCl<sub>2</sub> AND NO OTHER ADDITIVES, OR GEL. ALL CEMENT PLUGS MUST BE A MINIMUM OF 100'.

GEL IS DEFINED AS FRESH WATER WITH A MINIMUM OF 6% BENTONITE (BY WEIGHT).

4500820 P



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION 7

Quadrangle Matewan 1 SW

WELL RECORD

Oil or Gas Well gas  
(circle)

Permit No. Log-820

Company Cities Service Oil Company  
Address P. O. Box 873, Charleston 23, W. Va.  
Firm Albert H. Cole, Trustees, etak crs 11, 124, 79

Location (waters) Oldhouse Branch  
Well No. 7 - GW-1403 Elev 1258.25'  
District Logan County Logan

The surface of tract is owned in fee by A. H. Cole, Tr, etal  
815 Trans. Bldg. Address Cincinnati, Ohio

Mineral rights are owned by same  
(for further add. contact Cities Service Oil Co)  
Address

Drilling commenced 4-4-63

Drilling completed 6-6-63

Date Shot not shot From \_\_\_\_\_ To \_\_\_\_\_

With \_\_\_\_\_

Open Flow 8 /10ths Water in 2 Inch

\_\_\_\_\_ /10ths Merc. in \_\_\_\_\_ Inch

Volume 119,000 Cu. Ft.

Rock Pressure 735 lbs. 36 hrs.

Oil \_\_\_\_\_ bbls. 1st 24 hrs.

WELL ACIDIZED see reverse side

WELL FRACTURED not fractured

RESULT AFTER TREATMENT 62/10 M, 4" = 4,875 MCF

ROCK PRESSURE AFTER TREATMENT 685# - 24 hours

Fresh Water \_\_\_\_\_ Feet

Salt Water 1623' 2078' 2322' Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Creek Sand			0	18			
Slate			18	47			
Sand			47	148			
Slate			148	185			
Sand			185	198			
Slate			198	203			
Coal			203	205			
Slate			205	235			
Sand			235	282			
Slate			282	314			
Sand			314	390			
Slate			390	413			
Sand			413	556			
Slate and Shells			556	650			
Sand			650	731			
Slate and Shells			731	798			
Sand			798	865			
Slate and Shells			865	900			
Sand			900	924			
Slate and Shells			924	988			
Sand			988	1035			
Slate and Shells			1035	1095			
Sand			1095	1142			
Slate and Shells			1142	1163			
Sand			1163	1402			
Slate and Shells			1402	1438			
Sand			1438	1460			

(over)

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West Virginia  
Dept. of Mines  
Department of Environmental Protection

08/29/2014



Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Slate and Shells			1460	1548			
Sand			1548	1630	S. water	1623'	hole full
Slate and Shells			1630	1661			
Sand			1661	1745			
Slate			1745	1755			
Sand			1755	1932			
Slate and Shells			1932	2073			
Sand			2073	2100	S. water	2078-83'	1/2 blr/hr.
Slate and Shells			2100	2106			
Red Rock			2106	2132			
Sand			2132	2165			
Red Rock			2165	2168			
Slate and Shells			2168	2196			
Red Rock			2196	2224			
Sand			2224	2234			
Slate and Shells			2234	2262			
Sand			2262	2339	S. water	2322'	1 7/8 blr/hr.
Slate and Shells			2339	2395			
Red Rock			2395	2405			
Lime			2405	2420			
Sand			2420	2495			
Slate			2495	2502	2632'SLM=2624'DLM		
Big Lime			2502	2818	Gas	2726-32'	show
Slate			2818	2900	Gas	2756-65'	133M
Total depth-----				2900'			
Filled back with rock and cement to-----				2818'			

CASING RECORD

- 4-11-63 Ran 10-3/4" casing with Midget bottom Hole Packer at 526'DLM - R/L nipple and coupling at top of first joint - Gelled with 5 sacks-good circulation.
- 4-17-63 Ran 8-5/8" casing at 1029'DLM with shoe. Gelled with 7 bags Aquagel-good circulation -pulled.
- 5-6-63 Ran 7" casing on shoe at 1941'DLM. Ran 7 bags Aquagel - good circulation-pulled.
- 5-28-63 Ran 5-1/2" casing on shoe 2624'DLM=2632'SLM. Ran 6 bags Aquagel-displaced with 62 bbls. water. Good circulation.

ACIDIZING RECORD-ACIDIZED BIG LIME 6-10-63

Before acidizing gas gauged 119 MCF - 36 hour rock pressure 735#. Acidized Big Lime with 5,000 gallons retarded acid, 5,000 gallons regular acid. Flushed with 29 bbls. water and 1/2 gallon Tergitol. Pressure on well with retarded acid - average 1,000# - maximum 1,400#. Minimum 900#. Regular acid went in on 400# - finished flush at 400#. After 18 hours final open flow 4,875 MCF.

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Office of Oil and Gas

JUL 17 2014

Date June 18, 1963  
APPROVED Citiga Service Oil Company Owner  
By W. S. Moore, Division Supt Environmental Protection  
(Title)





1) Date: 7-15-14  
2) Operator's Well Number  
129491(A.Cole B-7)  
3) API Well No.: 47 045 - 00820  
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 Coal and Crane Real Estate Trust  
Address 848 4th Ave. Suite 303  
Huntington, WV 25701  
(b) Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_  
6) Inspector Ralph Triplett  
Address 5539 McClellan Hwy  
Branchland, WV 25506  
Telephone 304-389-0350

5) (a) Coal Operator:  
Name None  
Address \_\_\_\_\_  
(b) Coal Owner(s) with Declaration  
Name Coal and Crane Real Estate Trust  
848 4th Ave. Suite 303  
Address Huntington, WV 25701  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Coal Lessee with Declaration  
Name None  
Address \_\_\_\_\_

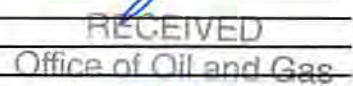
**TO THE PERSONS NAMED ABOVE:** You should have received this Form and the following documents:

- (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.

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 14 day of July, 2014  
My Commission Expires: 7/27/2018 Notary Public 7 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](mailto:depprivacyofficer@wv.gov).



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Restricted Delivery Fee (Endorsement Required)		

Total P

Sent to  
**Coal and Crane Real Estate Trust**  
**848 4<sup>th</sup> Ave., Suite 303**  
**Huntington, WV 25701**  
 129491 plugging

PS Form 3800, August 2006 See Reverse for Instructions

Coal and Crane Real Estate Trust  
848 4<sup>th</sup> Ave., Suite 303  
Huntington, WV 25701  
129491 plugging

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

**SENDER: COMPLETE THIS SECTION**

1. Article Addressed to:  
 Coal and Crane Real Estate Trust  
 848 4<sup>th</sup> Ave., Suite 303  
 Huntington, WV 25701  
 129491 plugging

2. Article Number  
 7013 2630 0002 2366 4173

3. Service Type  
 Certified Mail  
 Registered Mail  
 Return Receipt for Merchandise  
 Insured Mail  
 C.O.D.

4. Restricted Delivery? (Extra Fee)  
 Yes  
 No

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

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

A. Signature  Agent  Addressee

**COMPLETE THIS SECTION ON DELIVERY**

PS Form 3811, February 2004  
 Domestic Return Receipt  
 102595-02-M-1540

08/29/2014

**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: Oldhouse Creek Quadrangle: Barnabus 7.5'

Elevation: 1350' County: Logan District: Island Creek

Description of anticipated Pit Waste: Formation Fluids

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

Will synthetic liner be used in the pit? Yes Is so, what ml.? 20 40-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 [Signature]

Company Official (Typed or Printed) Victoria Roark

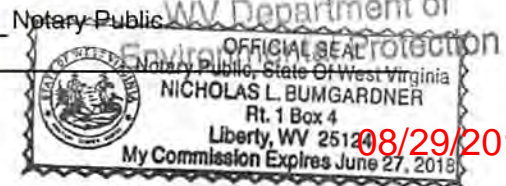
Company Official Title Permitting Supervisor-WV

Subscribed and sworn before me this 14 day of July, 2014

My Commission Expires 7/27/2018

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Office of Oil and Gas

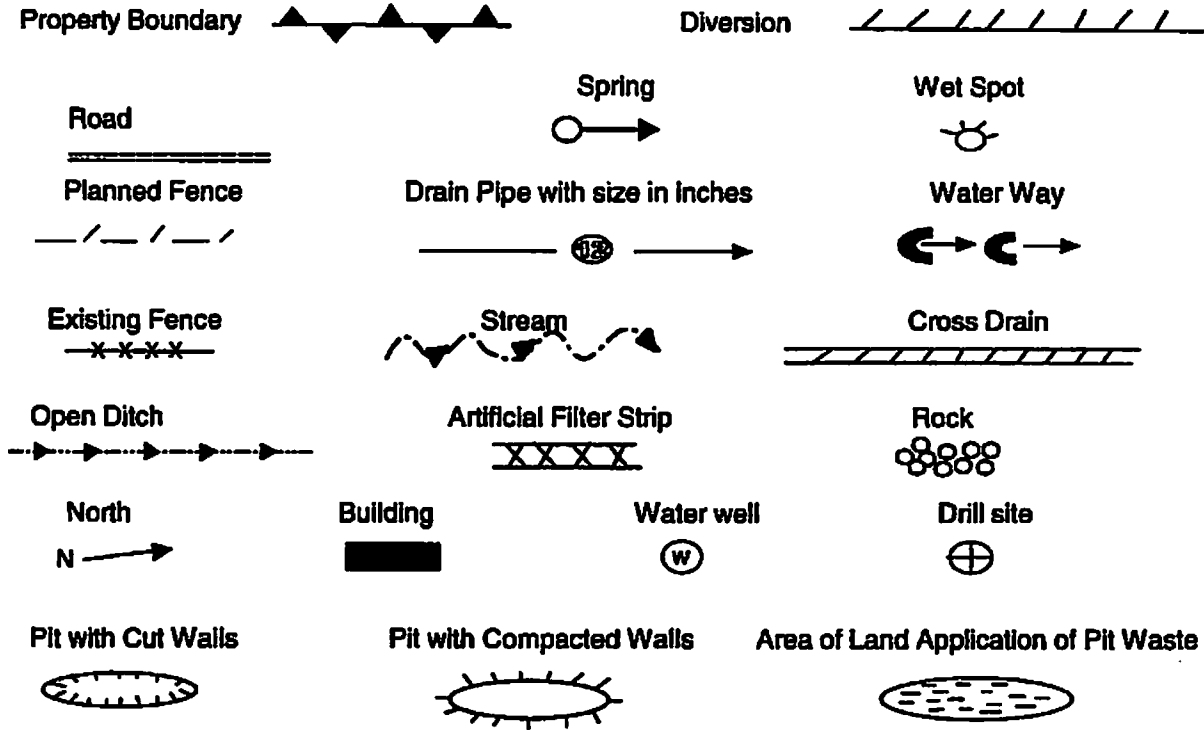
JUL 17 2014



08/29/2014

OPERATOR'S WELL NO:-  
129491(A.Cole B-7)

**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: Ralph D. Trippall

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

Title: District Inspector Date: July 21, 2014  
Field Reviewed?  Yes  No



4500820P

Topo Quad: Barnabus 7.5'

Scale: 1" = 2000'

County: Logan

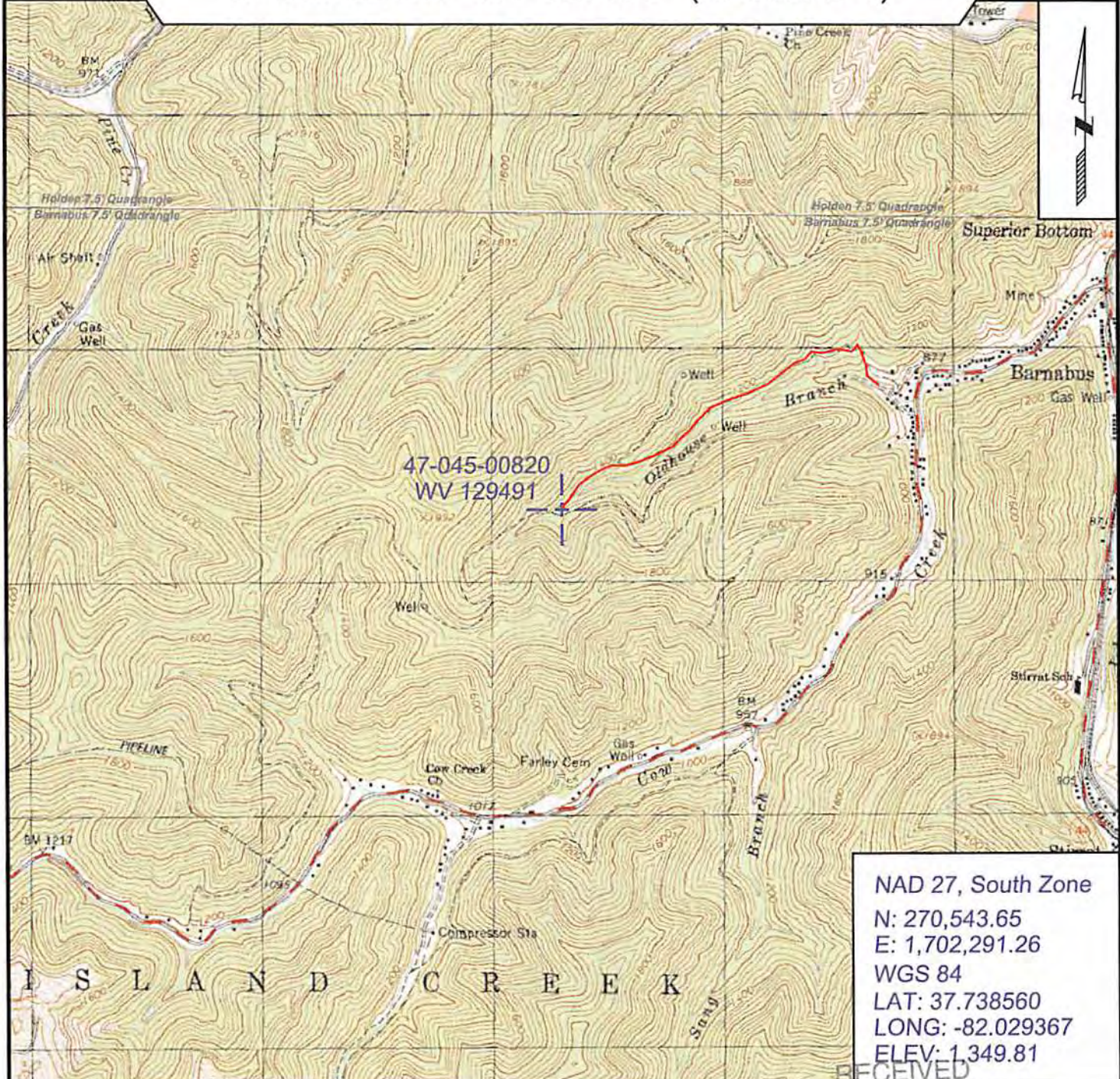
Date: June 16, 2014

District: Island Creek

Project No: 21-21-00-08

47-045-00820 WV 129491 (A. Cole B-7)

Topo



47-045-00820  
WV 129491

NAD 27, South Zone  
 N: 270,543.65  
 E: 1,702,291.26  
 WGS 84  
 LAT: 37.738560  
 LONG: -82.029367  
 ELEV: 1,349.81



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:  
 Office of Oil and Gas  
**EQT Production Company**  
 P.O. Box 280  
 Bridgeport, WV 26330  
 WV Department of  
 Environmental Protection

08/29/2014



WW-7  
8-30-06



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

API: 47-045-00820 WELL NO.: WV 129491 (A. Cole B-7)

FARM NAME: A. H. Cole

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Logan DISTRICT: Island Creek 5

QUADRANGLE: Barnabus 7.5' 232

SURFACE OWNER: Cole & Crane Real Estate Trust

ROYALTY OWNER: Cole & Crane Real Estate Trust, et al.

UTM GPS NORTHING: 4177307

UTM GPS EASTING: 409303 GPS ELEVATION: 411 m (1350 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:

- Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
- Accuracy to Datum – 3.05 meters
- 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 Olson*  
Signature

PS # 2180  
Title

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6/25/14  
Date  
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Environmental Protection



### POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY  
LEASE NAME AND WELL No. A. Cole B-7 WV 129491 API No. 47-045-00820

#### POTENTIAL SAMPLE LOCATIONS

There appears to be no known water samples within the required 1000' of the existing well WV 129491.

**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

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Office of Oil and Gas

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

WV Department of  
Environmental Protection



4500820P

Topo Quad: Barnabus 7.5'

Scale: 1" = 2000'

County: Logan

Date: June 16, 2014

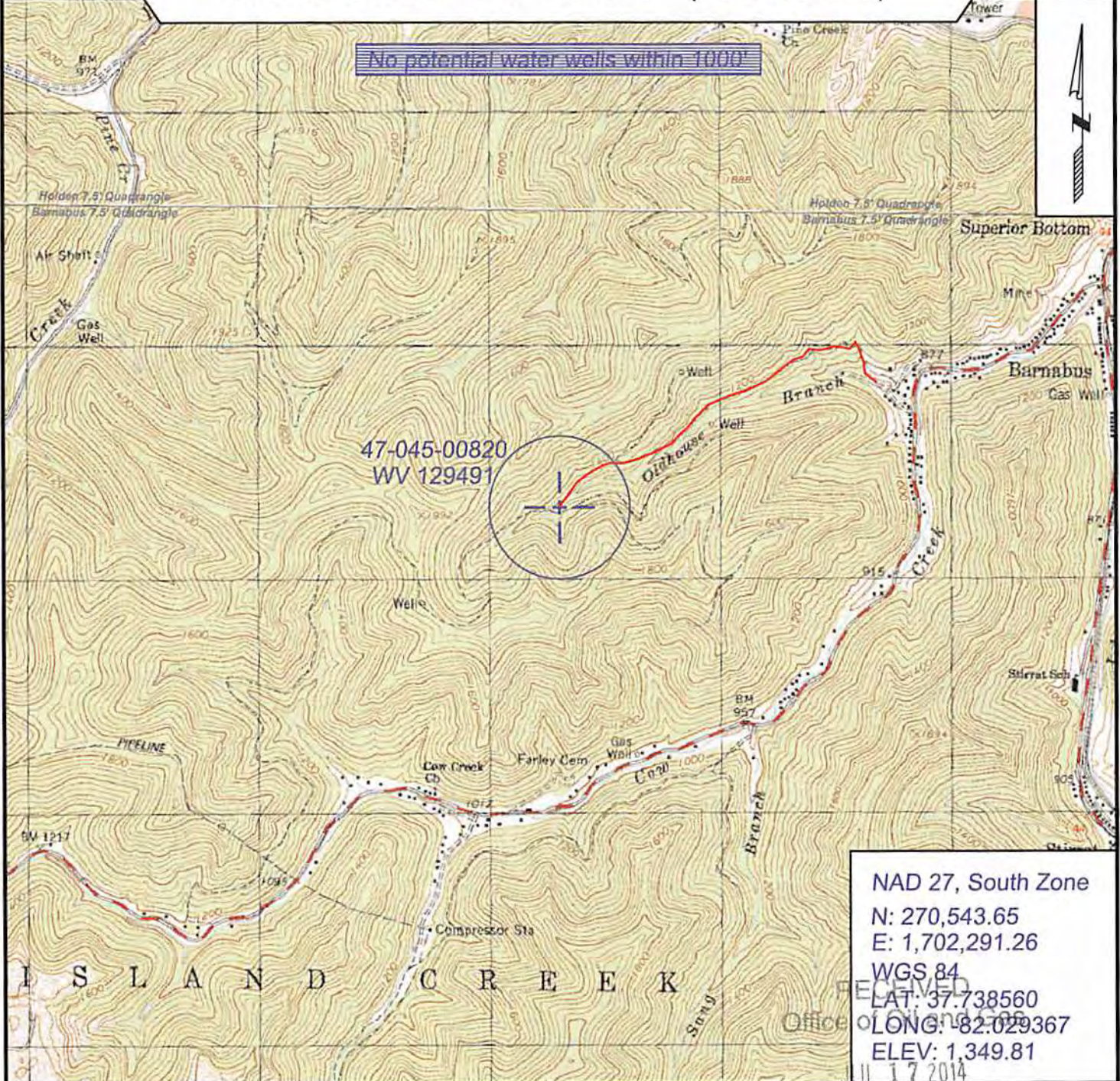
District: Island Creek

Project No: 21-21-00-08

Water

47-045-00820 WV 129491 (A. Cole B-7)

No potential water wells within 1000'



NAD 27, South Zone  
 N: 270,543.65  
 E: 1,702,291.26  
 WGS 84  
 LAT: 37.738560  
 LONG: -82.029367  
 ELEV: 1,349.81  
 JUN 17 2014



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 Birch River, WV 26610  
 PH: (304) 649-8606  
 FAX: (304) 649-8608

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

08/29/2014