



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 23, 2013

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-4300584, issued to EQT PRODUCTION COMPANY, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.

James Martin
Chief

Operator's Well No: WV 41779 (LINCOLN MINERAL C
Farm Name: EDWARDS, L & S.

API Well Number: 47-4300584

Permit Type: Plugging

Date Issued: 10/23/2013

Promoting a healthy environment.

10/25/2013

1) Date: August 13, 2013
 2) Operator's Well Number
417791 Lincoln Mineral Q-43
 3) API Well No.: 47 043 - 00584
 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

*Check# 16364
\$ 400.00
4 permits*

4) Surface Owner(s) to be served:
 (a) Name L. & S. Edwards ✓
 Address 585 Midway Rd
Alum Creek, WV 25003
 (b) Name _____
 Address _____
 (c) Name _____
 Address _____
 6) Inspector Ralph Triplett ✓
 Address 5539 McCellan Hwy
Branchland, WV 25506
 Telephone 304-389-0350

5) (a) Coal Operator:
 Name None
 Address _____
 (b) Coal Owner(s) with Declaration
 Name Penn Virginia Resources Partners ✓
One Carbon Center
 Address Suite 100
Chesapeake, WV 25315
 Name _____
 Address _____
 (c) Coal Lessee with Declaration
 Name Coal River Mining LLC ✓
 Address P.O. Box 58370
Charleston, WV 25358
 ## _____

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

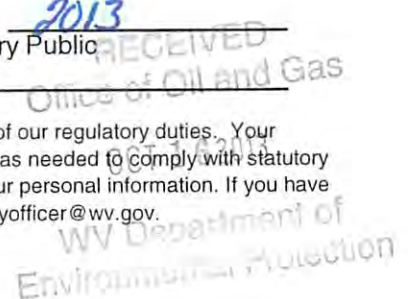
- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
 - (2) The plat (surveyor's map) showing the well location on Form WW-6.
- The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Division of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

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

Subscribed and sworn before me this 14 day of Aug, 2013
 My Commission Expires: 8-24-22 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.



10/25/2013

Date: August 13, 2013
Operator's Well
Well No. 417791 Lincoln Mineral Q-43
API Well No.: 47 043 - 00584

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: 902.68' Watershed: Fuquay Creek
Location: Washington 08 County: Lincoln 43 Quadrangle: Alum Creek 207
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 Ralph Triplett
Name: 5539 McCellan Hwy
Address: Branchland, WV 25506
- 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.

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Office of Oil and Gas

OCT 03 2013

WV Department of
Environmental Protection

OFFICE USE ONLY

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

Work order approved by inspector Ralph D. Triplett Date August 21, 2013

PLUGGING PROGNOSIS

Lincoln Mineral #43 (417791)

Lincoln County, West Virginia
API # 47-043-00584
St. Albans : Quad

BY: Craig Duckworth
DATE: 2/27/13

CURRENT STATUS:

10 3/4" csg @ 551'
8 1/4" csg @ 1301' Pulled
7" csg @ 1818' (Open hole packer @ 1818')
5 1/4 " csg @ 1047'

TD @ 4057'

Elevation @ 977'

Fresh Water @ 1050'

Salt Water @ 1075', 1335'

Salt Sand @ 1012'

Coal @ 180', 530'

Gas shows @ none reported

Oil Shows @ none reported

Stimulation: @ 4043' to 3100' shot

1. Notify State Inspector Ralph Triplett 304-389-0350, and 24 hrs prior to commencing operations.
2. TIH w/ tbg @ 3100'; Set 100' C1A Cement Plug @ 3100' to 3000' (Shot @ 4043'-3100')
3. TOOH w/ tbg @ 3000'; Gel hole @ 3000' to 1900'
4. TOOH w/ tbg @ 1900'; Set 100' C1A Cement Plug @ 1900' to 1800' (7" @ 1818')
5. TOOH w/tbg to pull 5 1/2" @ 1047'
6. TIH w/ tbg to check free point on 7" csg, cut & pull at free point
7. Set a 100' C1A Cement Plug 50' In/Out of cut. Perf all FW, Coal, Oil and Gas shows below 7" cut.
Do not omit any plugs
8. TIH w/ tbg @ 1800'; Gel hole @ 1800' to 1400'
9. TOOH w/ tbg @ 1000'; Set 100' C1A Cement Plug @ 1000' to 900' (Salt Sand @ 1012' & Fresh Water @ 1050')
10. TOOH w/ tbg @ 900'; Gel hole @ 900' to 610'
11. Free point on 10 3/4" csg, cut & pull at free point
12. TIH w/ tbg @ 610'; Set 110' C1A Cement Plug @ 610' to 480' (coal @ 530' & 10 3/4" @ 551')
13. TOOH w/ tbg @ 480'; Gel hole @ 480' to 200'
14. TOOH w/ tbg @ 200'; Set 200' C1A Cement Plug @ 200' to 0 (surface)
15. Top off if necessary
16. Set Monument to WV-DEP Specifications
17. Reclaim Location & Road to WV-DEP Specifications

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OK
RDT

10/25/2013

WEST VIRGINIA DEPARTMENT OF MINES
OIL & GAS DIVISION
W E L L R E C O R D

Permit No. Lin 584
St. Albans Quad.
Company
Address
Farm
Location
Well No.
District
Surface
Mineral
Commenced
Completed
Date shot
Open flow
Volume
Rock Pressure
Fresh Water
Salt Water

Hamilton Gas Corporation
P.O. Box 2307, Charleston 20, W.Va.
Lincoln Land & Mineral Co. Acres 4,000
Fuquay Cr.
7-43 Elev. 977
Washington Lincoln County
Hon. Edwards
Hamilton Gas Corporation
Feb. 10, 1945
May 11, 1945
5-3-45 Depth 3100 to 4043 with 8,100# 80% Gal.
6/10ths W in 2"
103 OP
148# 48 hrs.
5-10" BPH 1,050'
HFW 1,075-1335'

Gas Well
CASING & TUBING

13 3/8 S2 32
10 1/2 556 551
8 1/2 1301 Pld.
7 OD 1832 1818
5 1/2 1047

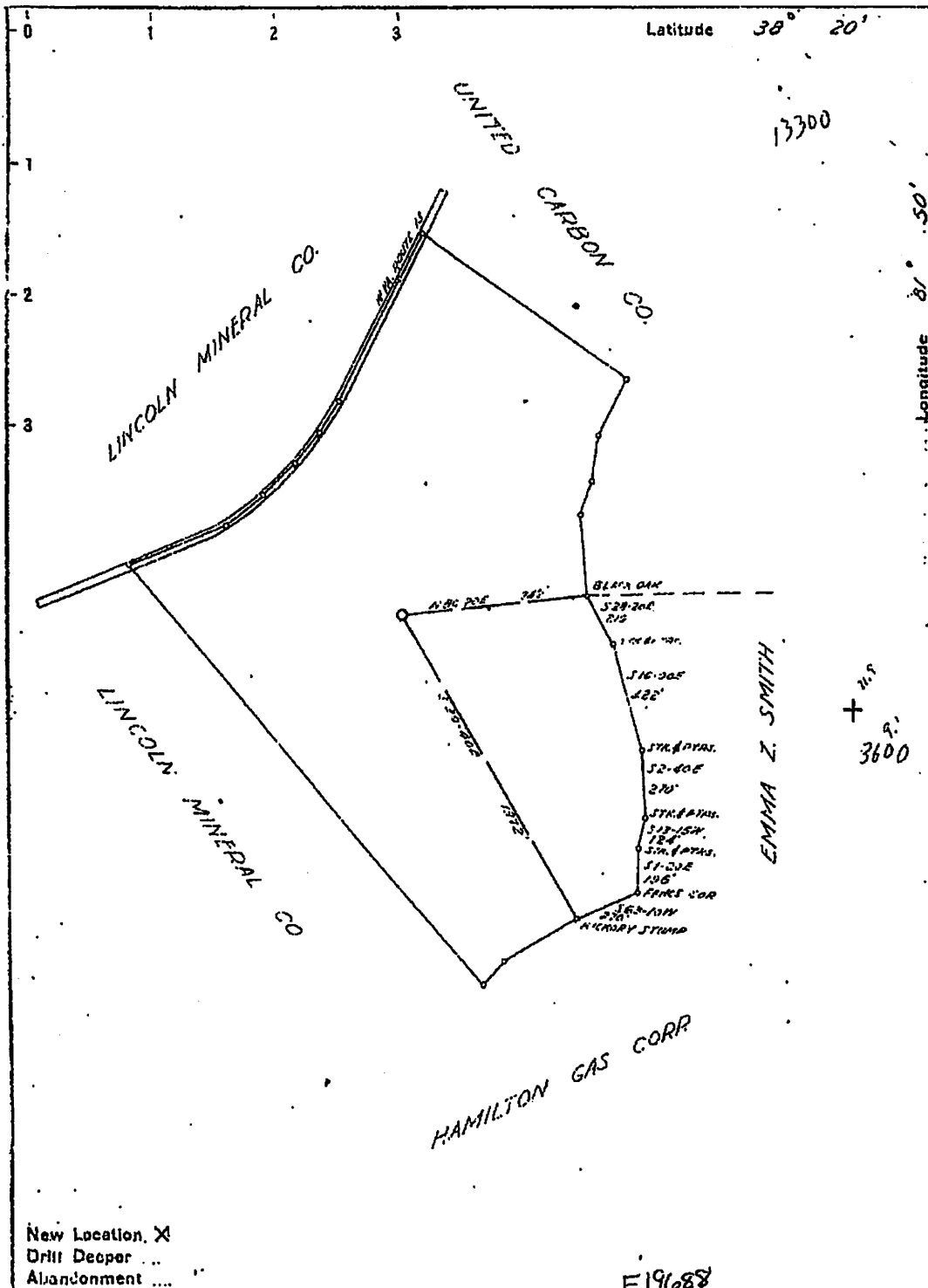
BH Packer
Size 7" x 8 5/8"
x 16

Coal at 180-182' 24";
530-538' 96"

Red Rock	0	10	Dr. Shale	2885	2395
Blue Slate	10	25	Berea Grit	2395	2416
Brown Sand	25	40	Slate & Shells	2416	3600
Gray Lime	55	70	Blk. Lime	3600	3750
Red Rock	70	78	Gray Shale	3750	3865
Lime	78	128	Dr. Shale	3865	4036
White Sand	128	155	White Slate	4036	4057
Slate	155	180	TOTAL DEPTH		4057
-Coal	180	182			
Slate & Shells	182	305			
White Sand	305	346			
Slate	346	350			
Sand	350	460			
Slate & Sand	460	530			
-Coal	530	538			
Slate & Shells	538	620			
Sand White	620	645			
Slate & Shells	645	700			
Sand White	700	740			
Slate	740	745			
Lime	745	775			
Blk. Slate	775	890			
Lime	890	905			
White Sand	905	960			
Slate & Shells	960	985			
Sand White	985	1005			
Slate Blk	1005	1012			
-Salt Sand	1012	1100			
Blk. Slate	1100	1102			
Salt Sand	1102	1365			
Wh. Slate Break	1365	1370			
Salt Sand	1370	1390			
Blk. Slate	1390	1392			
Salt Sand	1392	1510			
Blk. Slate	1510	1513			
Blk. Lime	1513	1525			
Maxon Sand	1525	1575			
Blk. Slate	1575	1580			
Dark Lime	1580	1615			
Red Rock	1615	1618			
Dark Lime	1618	1725			
Slate White	1725	1730			
Little Lime	1730	1779			
Pencil Cave	1779	1780			
Big Lime	1780	1921			
Injun Sand	1921	1977			
White Slate	1977	2000			
Blue Sand	2000	2020			
Lime	2020	2070			
Slate & shells	2070	2102			
Hd. Blue Shell	2102	2120			
Slate Shells	2120	2275			
Blk. Lime Hd	2275	2385			

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New Location, X
 Drill Deeper ...
 Abandonment

Company HAMILTON GAS CORP
 Address CHARLESTON, W. VA.
 Farm LINCOLN MINERAL CO.
 Tract _____ Acres 4000 Lease No. WL-E
 Well (Farm) No: 7 Serial No. R-43
 Elevation (Spirit Level) 977
 Quadrangle SAINT ALBANS 0-39-382
 County LINCOLN District WASHINGTON
 Engineer H. B. Stewart
 Engineer's Registration No. 710
 File No. _____ Drawing No. _____
 Date DEC. 8, 1944 Scale 1"=1000'

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

WELL LOCATION MAP
 FILE NO. R-43-589

+ 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 of original tracing.

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2) Operator's Well Number

417791 Lincoln Mineral Q-43

3) API Well No.: 47 043 - 00584

**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: Fuquay Creek Quadrangle: Alum Creek

Elevation: 902.68' County: Lincoln District: Washington

Description of anticipated Pit Waste: Formation Fluids

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

Will synthetic liner be used in the pit? Yes Is so, what ml.? 30 ml

Proposed Disposal Method for Treated Pit Wastes:

- 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

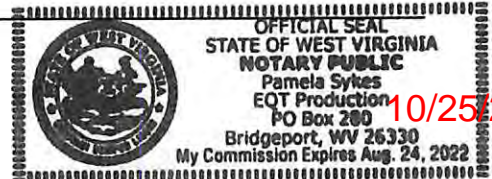
Subscribed and sworn before me this 14 day of August 2013

Pamela Sykes

Notary Public

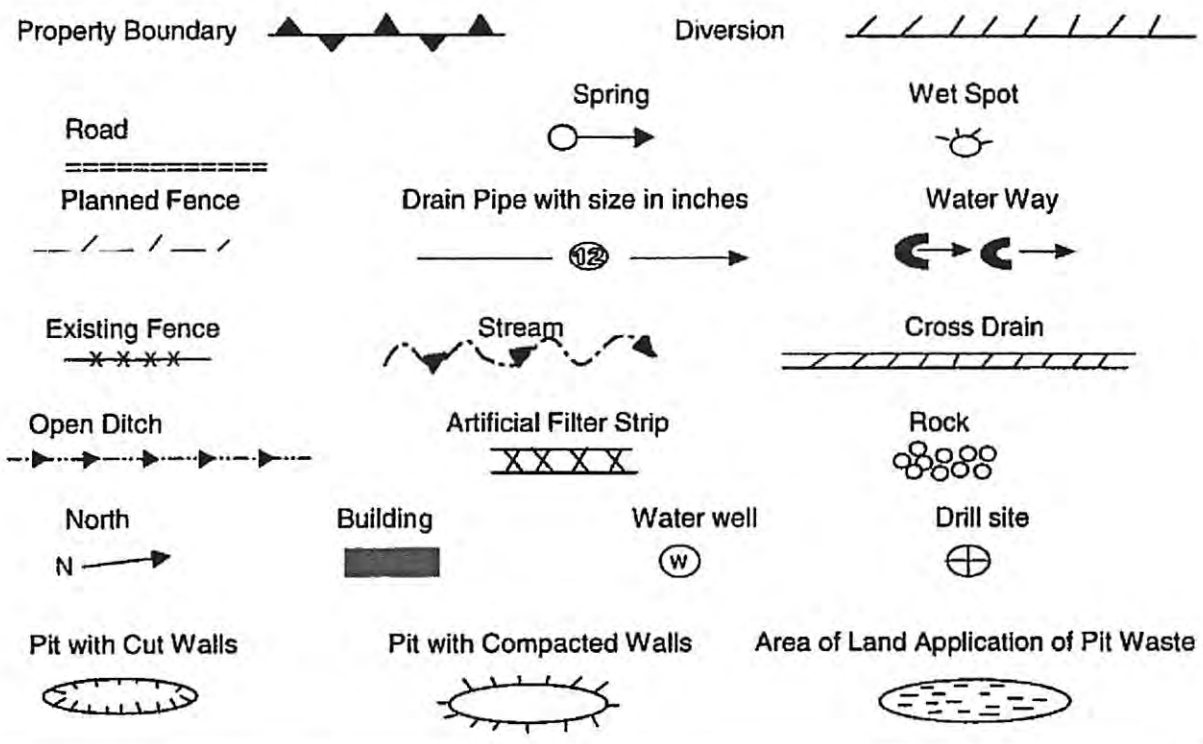
My Commission Expires 8-24-20

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10/25/2013

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		

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ATTACH:
 Drawing(s) of road, location, pit and proposed area for land application.
 Photocopies section of involved 7.5' topographic sheet.

Plan approved by: Rogel D. Trippitt

Comments: _____

Title: District Supervisor Date: August 21, 2013
 Field Reviewed? Yes No

WV Department of
 Environmental Protection



POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY
LEASE NAME AND WELL No. Lincoln Mineral Co. Q-43 WV 417791 (47-043-00584)

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

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

POTENTIAL SAMPLE LOCATIONS

Site: 1 Spacing: 890' +/- Owner: Louise Edwards
Address: P.O. Box 1273, Pawleys Island, SC 29585 Phone No. 843.237.2226
Comments:

Site: 2 Spacing: 850' +/- Owner: Louise Edwards
Address: P.O. Box 1273, Pawleys Island, SC 29585 Phone No. 843.237.2226
Comments:

Site: 3 Spacing: 960' +/- Owner: Louise Edwards
Address: P.O. Box 1273, Pawleys Island, SC 29585 Phone No. 843.237.2226
Comments:

Site: 4 Spacing: 730' +/- Owner: Larry and Sharon Edwards
Address: 585 Midway Road, Alum Creek, WV 25003 Phone No. 304.756.9327
Comments:

Site: 5 Spacing: 660' +/- Owner: Larry and Sharon Edwards
Address: 585 Midway Road, Alum Creek, WV 25003 Phone No. 304.756.9327
Comments:

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

BRIDGEPORT OFFICE
172 Thompson Drive
Bridgeport, WV 26330
phone: 304-848-5035
fax: 304-848-5037

CALDWELL OFFICE
212 Cumberland Street
Caldwell, OH 43724
phone: 740-305-5007
fax: 740-305-5126

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

Site: 6 Spacing: 660' +/- Owner: Little General Stores, Inc.
Address: P.O. Box 968, Beckley, WV 25801 Phone No. 304.253.9592
Comments:

Site: 7 Spacing: 630' +/- Owner: Barry and Kathy D. McCallister
Address: 551 Midway Road, Alum Creek, WV 25003 Phone No. 304.756.2135
Comments:

Site: 8 Spacing: 670' +/- Owner: Theodore A. and Tracy M. George
Address: 539 Midway Road, Alum Creek, WV 25003 Phone No. 304.756.2503
Comments:

Site: 9 Spacing: 790' +/- Owner: Robert Mostellar, Trustee of New Cov. Bapt. Church
Address: 555 Buckeye Fork Road, Sod, WV 25564 Phone No. 304.756.2782
Comments:

Site: 10 Spacing: 910' +/- Owner: Robert Mostellar, Trustee of New Cov. Bapt. Church
Address: 555 Buckeye Fork Road, Sod, WV 25564 Phone No. 304.756.2782
Comments:

Topo Quad: Alum Creek 7.5'

Scale: 1" = 2000'

County: Lincoln

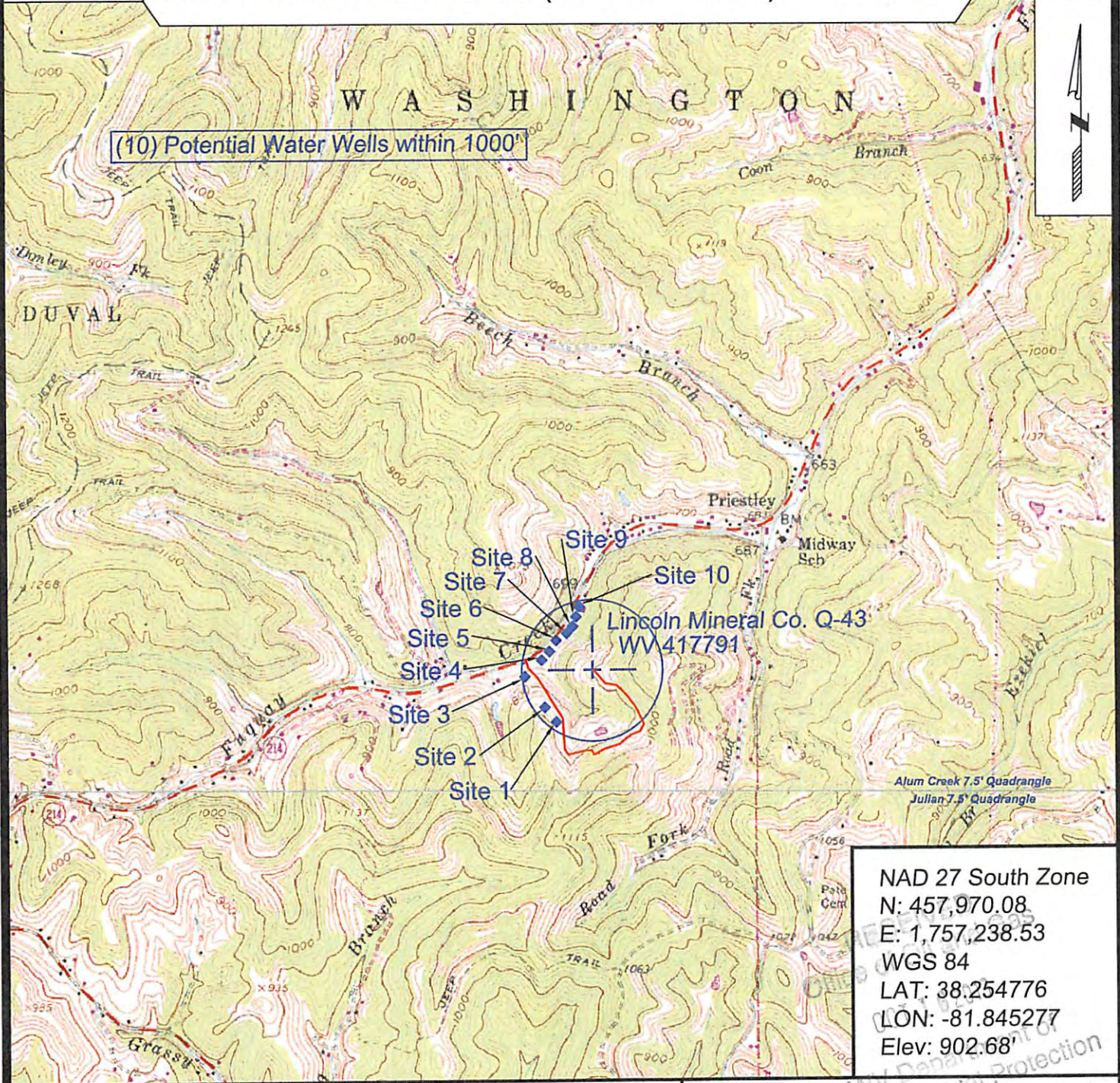
Date: August 1, 2013

District: Washington

Project No: 206-26-S-13

Water

Lincoln Mineral Co. Q-43 (47-043-00584) WV 417791



NAD 27 South Zone
 N: 457,970.08
 E: 1,757,238.53
 WGS 84
 LAT: 38.254776
 LON: -81.845277
 Elev: 902.68'



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

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

Topo Quad: Alum Creek 7.5'

Scale: 1" = 2000'

County: Lincoln

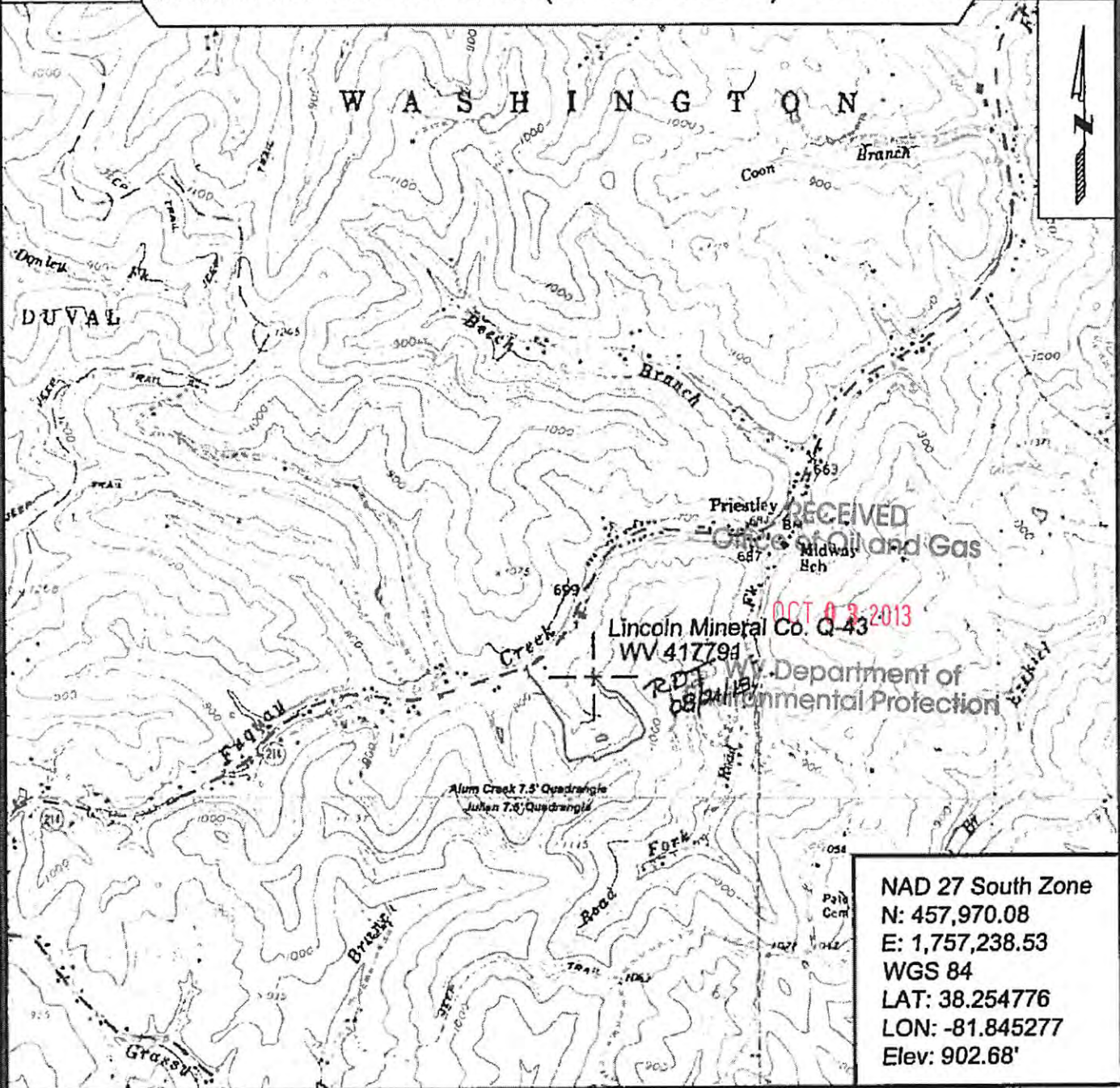
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Lincoln Mineral Co. Q-43 (47-043-00584) WV 417791

Topo



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PREPARED FOR:

EQT Production Company

P.O. Box 280
 Bridgeport, WV 26330

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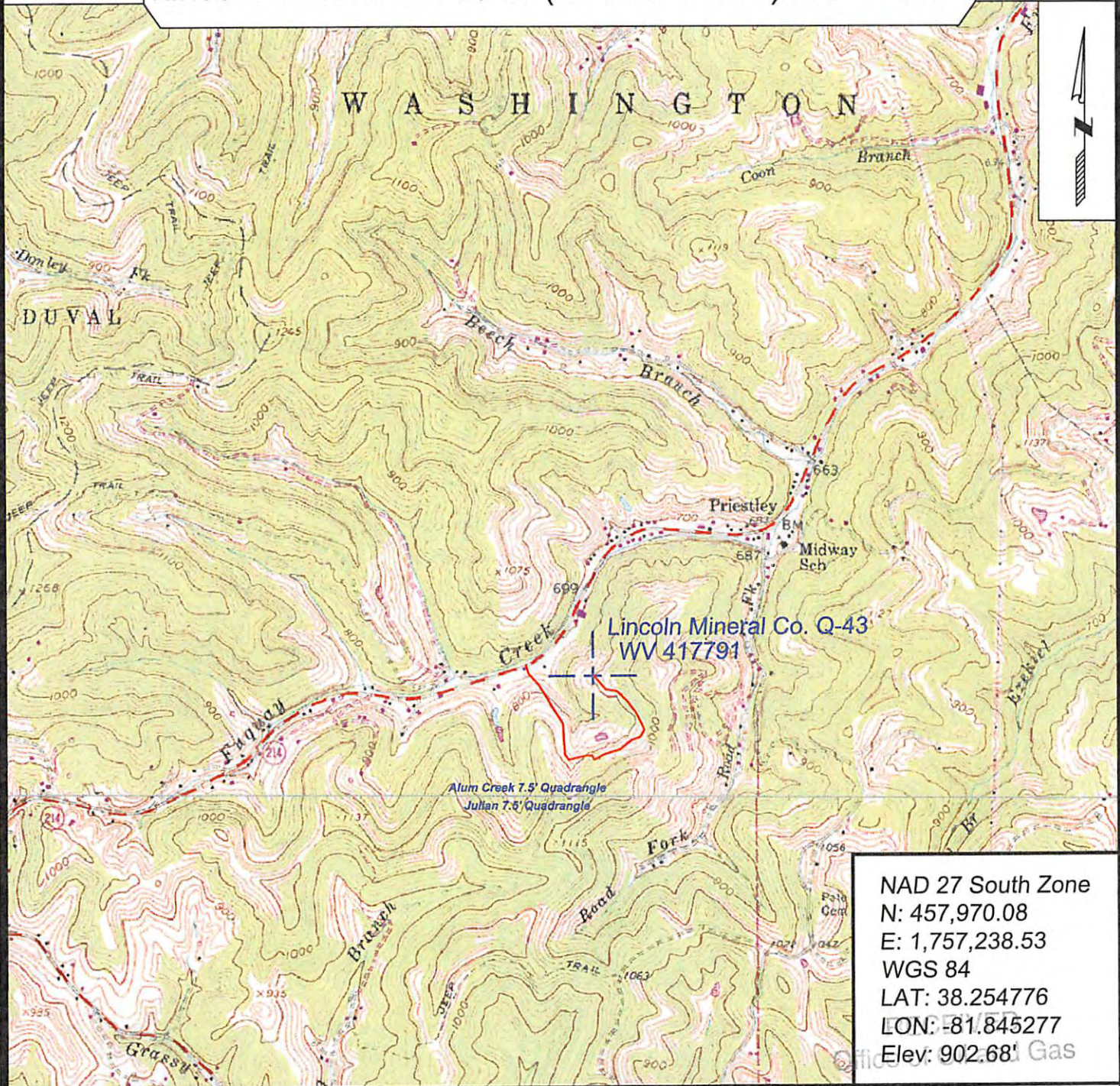
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County: Lincoln Date: August 1, 2013

District: Washington Project No: 206-26-S-13

Lincoln Mineral Co. Q-43 (47-043-00584) WV 417791

Topo



NAD 27 South Zone
N: 457,970.08
E: 1,757,238.53
WGS 84
LAT: 38.254776
LON: -81.845277
Elev: 902.68' Gas

PREPARED FOR:

OCT 16 2013

EQT Production Company

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10/25/2013

