



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

February 11, 2014

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-2104651, 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: PEGGS 1A-W524
Farm Name: PEGGS, RICHARD
API Well Number: 47-2104651
Permit Type: Plugging
Date Issued: 02/11/2014

Promoting a healthy environment.

02/14/2014

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.

2104651 P
CK 17256
\$100.00

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

Date: January 23, 2014
Operator's Well _____
Well No. 158711 Peggs 1A-W524
API Well No.: 47 021 - 04651

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: 715 Watershed: Cedar Creek of Little Kanawha River
Location: DeKalb County: Gilmer Quadrangle: Tanner
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 Bryan Harris
Name: P.O. Box 157
Address: Volga, WV 26238
- 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.

Tag all plugs
Attempt to pull 8 5/8" casing if not cemented
Set plug from 800' to 700'

RECEIVED
Office of Oil and Gas

FEB 04 2014

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 Bryan D. Harris Date 1-31-14

02/14/2014

PLUGGING PROGNOSIS - Weston

Peggs # 1A-W524 (158711)

Gilmer, County, WV
 API # 47-021-04651
 Dekalb District

BY: Craig Duckworth
 DATE: 11/12/13

CURRENT STATUS:

13-10" csg @ 179' Surface
 8 5/8" csg @ 1450 Surface

Elevation 715'

TD @ 6012'

Fresh Water @ 90', 280', 535'

Salt Water @ None reported

1st Salt Sand @ 825'

Coal @ None reported

Gas shows @ None reported

Oil Shows @ None reported

Stimulation: Shot 6012'-2750' (61,100 lbs. Ammonium Nitrate & 1850 lbs. Gelatin)

Note: When well was drilled Waco Oil & Gas did not get back to TD (6012') after shot. If unable to reach TD contact Inspector & Craig Duckworth 304-377-0369.

1. Notify State Inspector, Bryan Harris 304-553-6087, 24 hrs. Prior to commencing operations.
2. TIH w/ tbg @ 4709'; Set 200' C1A Cement Plug @ 4709' to 4509' (Elk @ 4709' Alexander @ 4542')
3. TOO H w/ tbg @ 4509'; gel hole @ 4509' to 4308'.
4. TOO H w/ tbg @ 4308'; Set 100' C1A Cement Plug @ 4308' to 4208' (Benson @ 4308')
5. TOO H w/ tbg @ 4208'; gel hole @ 4208' to 3798'.
6. TOO H w/ tbg @ 3798'; Set 100' C1A Cement Plug @ 3798' to 3698' (Riley @ 3798')
7. TOO H w/ tbg @ 3698'; gel hole @ 3698' to 3166'.
8. TOO H w/ tbg @ 3166'; Set 100' C1A Cement Plug @ 3166' to 3066' (Balltown @ 3166')
9. TOO H w/ tbg @ 3066'; gel hole @ 3066' to 2790'
10. TOO H w/ tbg @ 2790'; Set 100' C1A Cement Plug @ 2790' to 2690' (Speechly @ 2790')
11. TOO H w/ tbg @ 2690'; gel hole @ 2690' to 1520'
12. TOO H w/ tbg @ 1520'; Set 120' C1A Cement Plug @ 1520' to 1400' (Big Injun @ 1520' & 8,5/8" csg @ 1450')
13. TOO H w/ tbg @ 1400'; gel hole @ 1400' to 585'
14. TOO H w/ tbg @ 585'; Set 100' C1A Cement Plug @ 585' to 485' (Fresh Water @ 535')
15. TOO H w/ tbg @ 485'; gel hole @ 485' to 300'
16. TOO H w/ tbg @ 300'; Set 300' C1A Cement Plug @ 300' to 0 (Fresh Water @ 280' & 90')
17. Top off as needed
18. Set Monument to WV-DEP Specifications
19. Reclaim Location & Road to WV-DEP Specifications

Well was shot w/ 61,100 Lb. Ammonium Nitrate and 1850 Lb. Gelatin

Top of Shot 2750'

Bottom of Shot 6012'

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Sand, Shale			0	61	
Sand, Shale, Red Rock			61	90	2" Stream H2O @ 90'
Sand, Shale			90	318	1/2" Stream H2O @ 280'
Red Rock			318	328	
Sand, Shale			328	1413	1/2" Stream H2O @ 535
Little Lime			1413	1433	
Blue Monday			1433	1458	
Big Lime			1458	1520	
Big Injun			1520	1606	
Sand, Shale			1606	2790	
Speechly Section			2790	3091	
Shale			3091	3166	
Balltown Section			3166	3798	
Riley Section			3798	4256	
Shale			4256	4308	
Benson			4308	4314	
Sand, Shale			4314	4542	
Alexander			4542	4600	
Shale			4600	4709	
Elk Section			4709	5225	
Shale			5225	6012	T. D.

(Attach separate sheets as necessary)

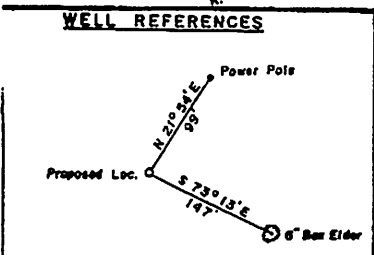
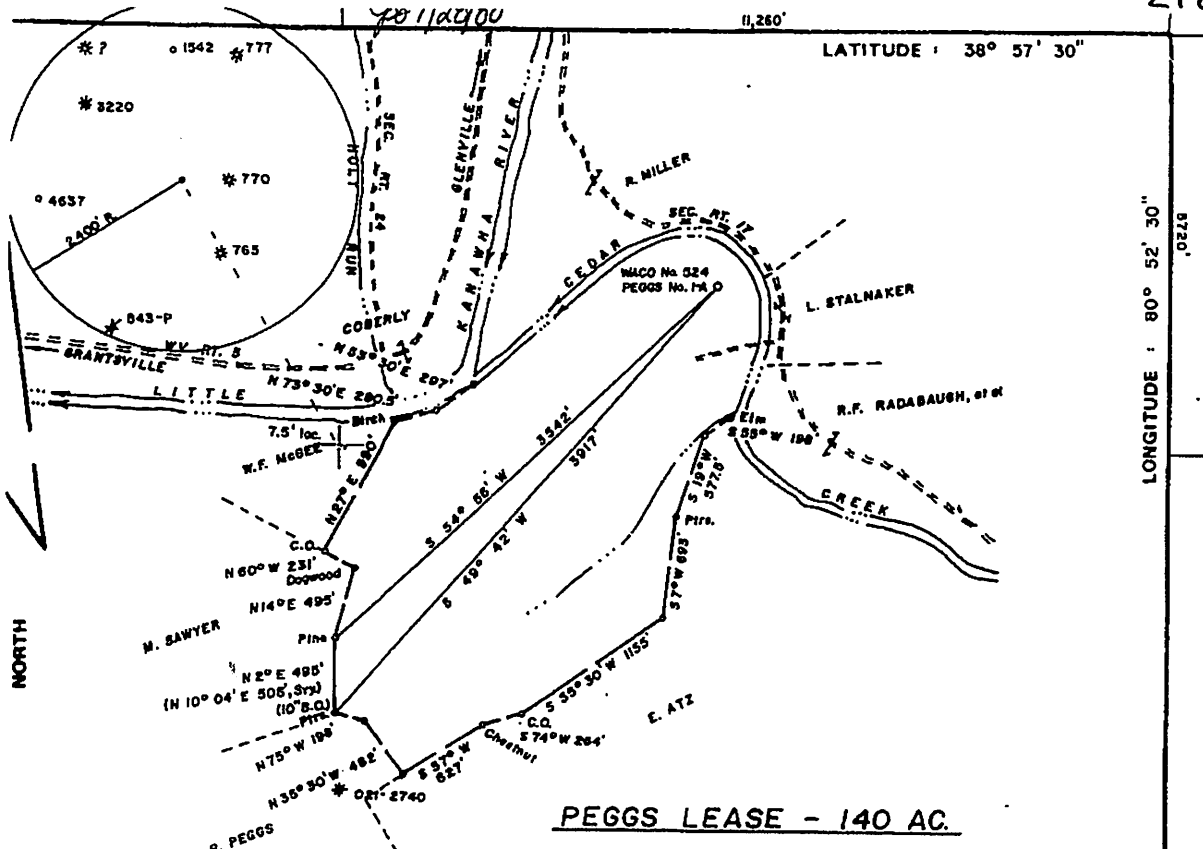
Waco Oil and Gas Company, Inc.

Well Operator

By: Daniel R. Chapman, Geologist

Date: August 30, 1988

Note: Regulation 2.02(i) provides as follows:
 "The term 'log' or 'well log' shall mean a systematic
 detailed geological record of all formations, including
 coal, encountered in the drilling of a well."



FILE NO. 14-52

DRAWING NO. _____

SCALE 1" = 1000'

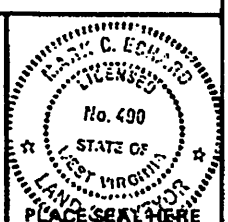
MINIMUM DEGREE OF ACCURACY 1/200

PROVEN SOURCE OF ELEVATION Spot El. of Rt. 5 SW of Lease, Elev. = 723'

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) Mark C. Echard
MARK C. ECHARD

R.P.E. _____ L.L.S. 490



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FORM IV-6 (8-78)

STATE OF WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS DIVISION

DATE JANUARY 13, 1988

OPERATOR'S WELL NO. WACO NO. 524

API WELL NO. PEGGS NO. 1-A

47 - 021 - 4651

STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL

(IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW

LOCATION: ELEVATION 715' WATER SHED CEDAR CREEK

DISTRICT DEKALB COUNTY GILMER

QUADRANGLE TANNER 75

SURFACE OWNER RICHARD PEGGS, et al ACREAGE 138.14 of 140

OIL & GAS ROYALTY OWNER ERNEST L. ARBUCKLE, et al LEASE ACREAGE 140

LEASE NO. _____

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON CLEAN OUT AND REPLUG

TARGET FORMATION BENSON ESTIMATED DEPTH 5000'

WELL OPERATOR WACO OIL & GAS CO. INC. DESIGNATED AGENT STEPHEN HOLLOWAY

ADDRESS P.O. BOX 397 ADDRESS P.O. BOX 397

GLENNVILLE, WV 26351 GLENNVILLE, WV 26351

2104651P

WW-4-A
Revised 6/07

1) Date: January 23, 2014
2) Operator's Well Number
158711 Peggs 1A-W524
3) API Well No.: 47 021 - 04651
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 Glennis M & Richard G Peggs ✓
Address 141 Watercrest Drive
Glenville, WV 26351-9511

(b) Name _____
Address _____

(c) Name _____
Address _____

6) Inspector Bryan Harris ✓
Address P.O. Box 157
Volga, WV 26238
Telephone 304.553.6087

5) (a) Coal Operator:
Name None
Address _____

(b) Coal Owner(s) with Declaration
Name Ernest L Arbuckle Family Trust ✓
Security National Trust Co, Trustee
Address 1300 Chapline St
Wheeling, WV 26003-3348
Name Kathryn J Bell ✓
Address P.O. Box 300
Glenville, WV 26351-0300

(c) Coal Lessee with Declaration
Name _____
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.



OFFICIAL SEAL
STATE OF WEST VIRGINIA
NOTARY PUBLIC
Pamela Sykes
EQT Production
PO Box 280
Bridgeport, WV 26330
My Commission Expires Aug. 24, 2022

Well Operator: _____
By: _____
Title: _____
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 23 day of January, 2014
Pamela Sykes Notary Public
My Commission Expires: 8-24-22

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.

02/14/2014

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: Cedar Creek of Little Kanawha River Quadrangle: Tanner

Elevation: 715 County: Gilmer District: DeKalb

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 _____ *[Signature]*

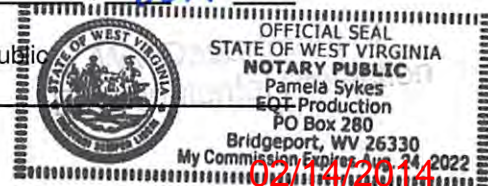
Company Official (Typed or Printed) Victoria Roark

Company Official Title Permitting Supervisor-WV

Subscribed and sworn before me this 23 day of January, 2014

My Commission Expires 8-24-20

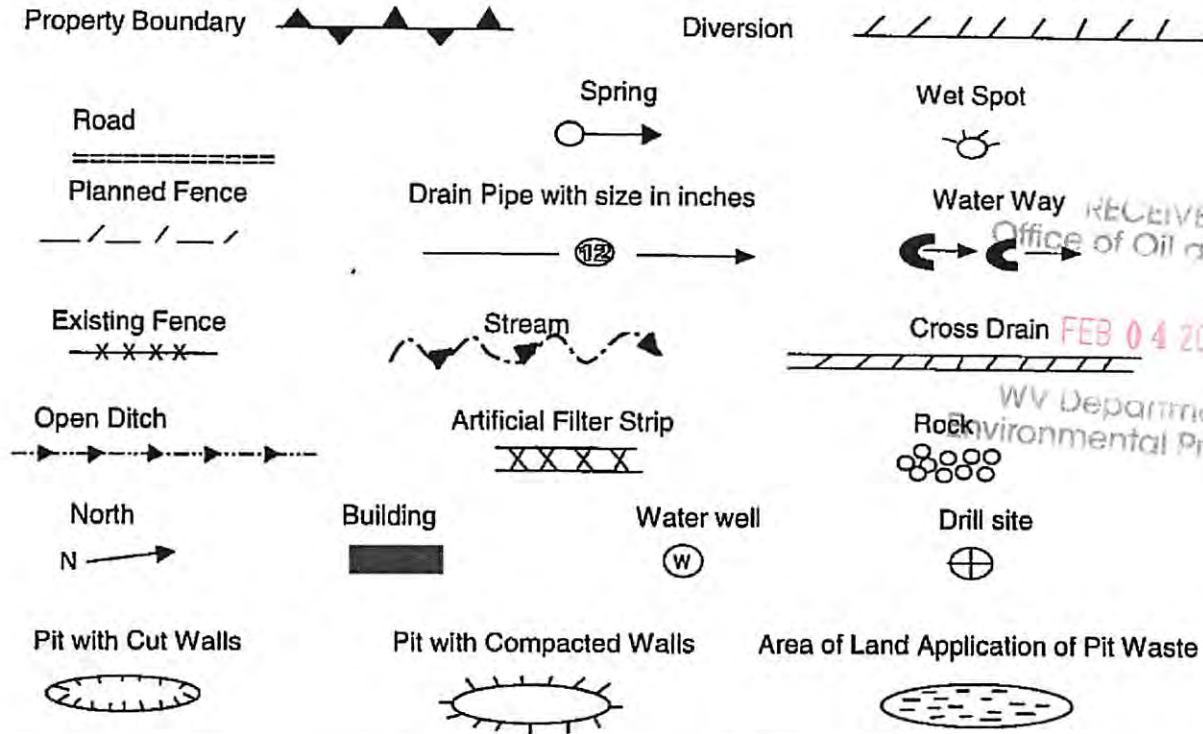
Notary Public



02/14/2014

OPERATOR'S WELL NO.:
158711 Peggs 1A-W524

LEGEND



RECEIVED
Office of Oil and Gas
FEB 04 2014
WV Department of Environmental Protection

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: Bryan O'Hara

Comments: _____

Title: Oil + Gas Inspector Date: 1-31-14

Field Reviewed? Yes No

2104651 P

Topo Quad: Tanner 7.5'

Scale: 1" = 2000'

County: Gilmer

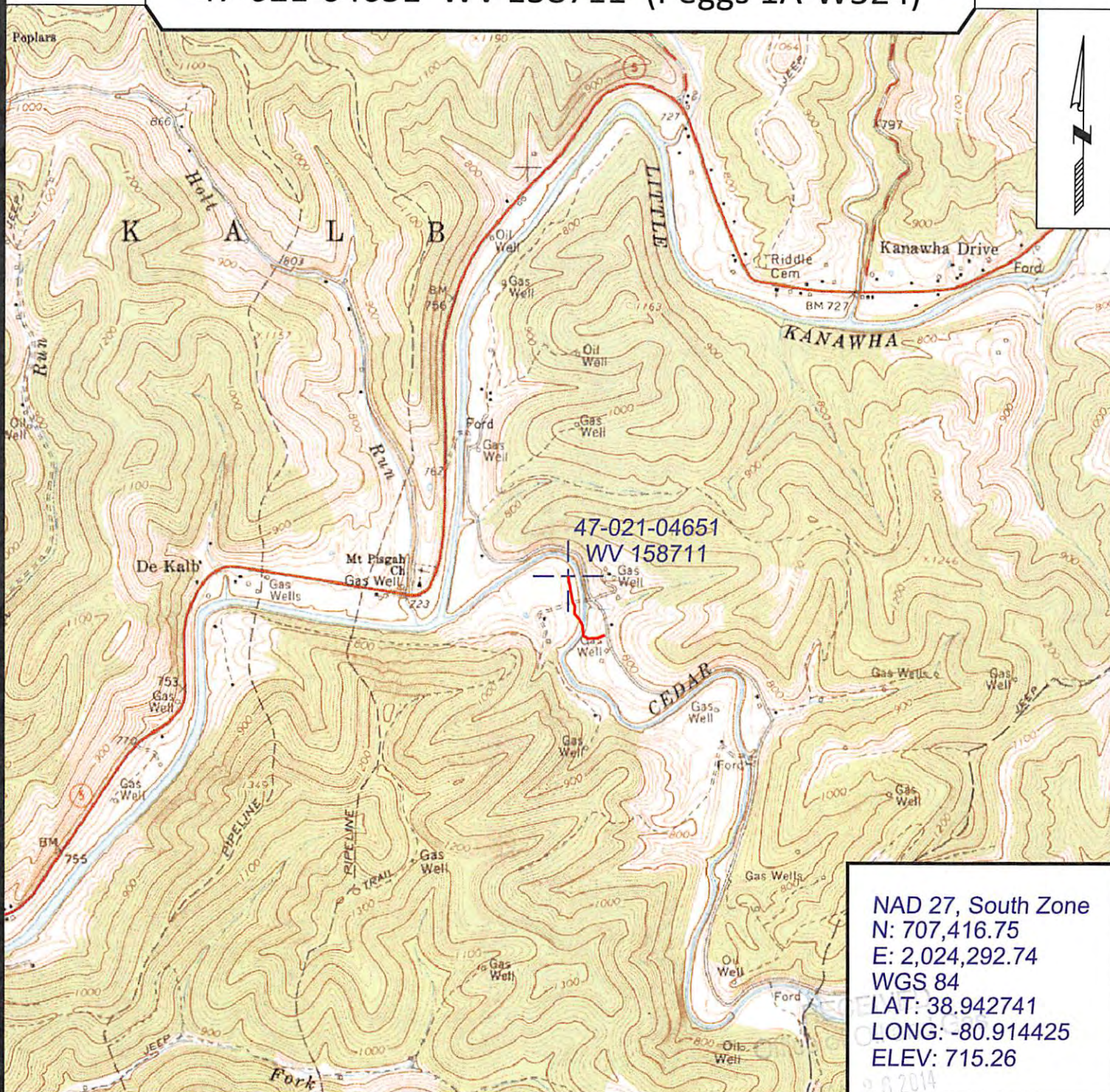
Date: December 19, 2013

District: Dekalb

Project No: 25-19-00-07

47-021-04651 WV 158711 (Peggs 1A-W524)

Topo



NAD 27, South Zone
 N: 707,416.75
 E: 2,024,292.74
 WGS 84
 LAT: 38.942741
 LONG: -80.914425
 ELEV: 715.26



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

02/14/2014

WW-7
8-30-06



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

API: 47-021-04651 WELL NO.: WV 158711 (Peggs 1A-W524)

FARM NAME: Richard Peggs

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Gilmer DISTRICT: Dekalb

QUADRANGLE: Tanner 7.5'

SURFACE OWNER: Glennis M. & Richard G. Peggs, Jr.

ROYALTY OWNER: Waco Oil & Gas Company Inc., et al.

UTM GPS NORTHING: 4310426

UTM GPS EASTING: 507416 GPS ELEVATION: 218 m (715 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 O'Neil
Signature

PS # 2180
Title

1/2/14
Date



POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY
 LEASE NAME AND WELL No. Peggs 1A-W524 WV 158711 (47-021-04651)

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: 598' +/- Owner: Lucille Stalnaker
 Address: 815 Lower Cedar Creek Rd., Glenville, WV 26351 Phone No. _____
 Comments:

Site: 2 Spacing: 906' +/- Owner: Robert Fred Radabaugh, et al.
 Address: 1286 Greenberry Dr., Elkview, WV 25071 Phone No. _____
 Comments:

Site: 3 Spacing: 639' +/- Owner: Richard G., Jr & Glennis M. Peggs
 Address: 141 Watercrest Dr., Glenville, WV 26351 Phone No. _____
 Comments:

Site: 4 Spacing: 459' +/- Owner: Glennis M. Peggs & Nicole Roberts
 Address: 141 Watercrest Dr., Glenville, WV 26351 Phone No. _____
 Comments:

RECEIVED
 Office of Oil and Gas
 JAN 28 2014
 Alum Creek Office
 P.O. Box 108 • 1413 Childress Road
 Alum Creek, WV 25003
 phone: 304-756-2949
 fax: 304-756-2948

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

Topo Quad: Tanner 7.5'

Scale: 1" = 2000'

County: Gilmer

Date: December 19, 2013

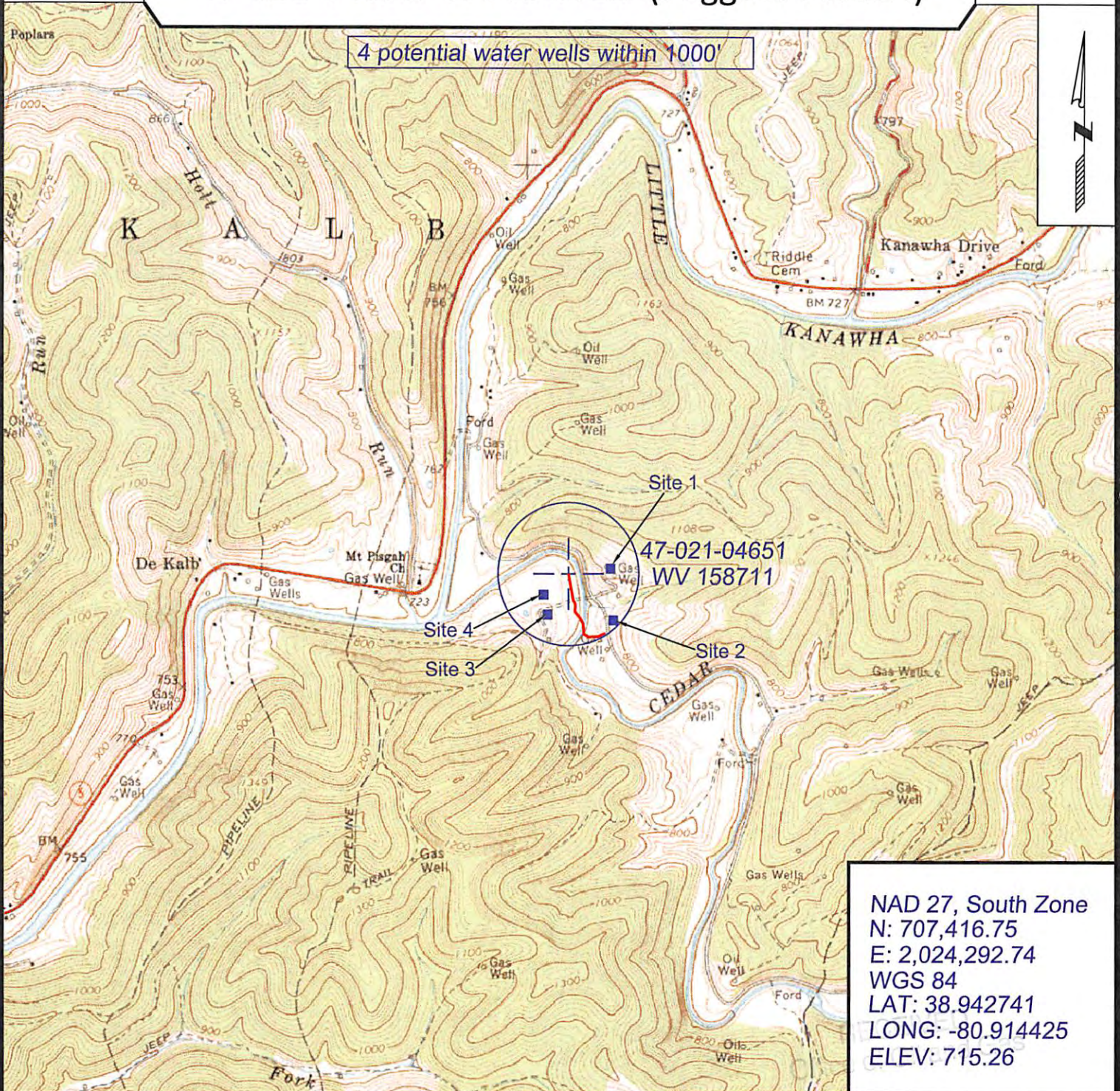
District: Dekalb

Project No: 25-19-00-07

Water

47-021-04651 WV 158711 (Peggs 1A-W524)

4 potential water wells within 1000'



NAD 27, South Zone
 N: 707,416.75
 E: 2,024,292.74
 WGS 84
 LAT: 38.942741
 LONG: -80.914425
 ELEV: 715.26



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