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**west virginia** department of environmental protection

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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

July 01, 2013

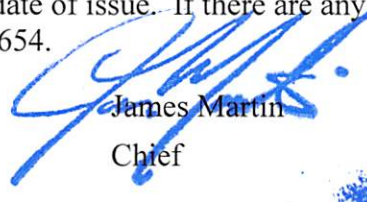
**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-1500072, 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 412851 (LEWIS "T" #27)

Farm Name: QUINN, JERRY W.

**API Well Number: 47-1500072**

**Permit Type: Plugging**

Date Issued: 07/01/2013

**Promoting a healthy environment.**

**07/05/2013**

CK # 15553  
\$300.00

1500072 P

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

Date: May 29, 2013  
Operator's Well \_\_\_\_\_  
Well No. 412851 Lewis, C.E. "T" #27  
API Well No.: 47 015 - 00072

**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: 757' Watershed: Beechy Creek of Elk River  
Location: Pleasant County: Clay Quadrangle: Elkhurst 7.5'  
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 Inspector to be notified:  
Ed Gainer  
Name: P.O. Box 821  
Address: Spencer, WV 25276

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

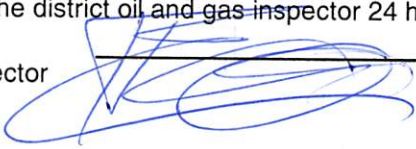
JUN 10 2013

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



Date

6/6/13

07/05/2013

PLUGGING PROGNOSIS

**Lewis, C.E. "T" #27 (412851)**

CLAY, COUNTY, WEST VIRGINIA

API # 47-015-00072

District: Pleasant

BY: Craig Duckworth

DATE: 1/07/13

**CURRENT STATUS:**

10" csg @ 313' Pulled

8 1/4" csg @ 1089' Pulled

6 5/8" csg @ 1324'

5 3/16" csg @ 1412' Pulled

~~Liner @ 67' of 5 3/16" casing from 1345' - 1412' thru Pencil Cave~~

2 3/8" tbg @ 1569'

TD @ 1569'

**Fresh Water @ 110'**

**Salt Water @ 545' & 474' & 775'**

**Salt Sand @ 485'**

**Coal @ None Reported**

**Gas Shows @ Big Injun (1524' & 1540')**

**Oil Shows @ None Reported**

**Elevation @ 753'**

**Stimulation: Shot 1501'-1543'**

1. Notify State Inspector, Ed Gainer 304-389-7582, 24 hrs prior to commencing operations.
2. TOOH w/ tbg and check condition
2. TIH w/ tbg @ 1569'; Set 145' C1A Cement Plug @ 1569' to 1424' (Big Injun 1500'-1544')
3. TOOH w/ tbg @ 1424'; gel hole @ 1424' to 1375
4. TOOH w/ tbg attempt to pull 6 5/8" if unable to pull, Free point & cut/shoot at free point
5. Set a 100' C1A Cement Plug 50' In/Out of cut. Perf all FW, Coal, Oil, Gas Shows, 6 5/8". Do not omit any plugs.
6. TIH w/ tbg @ 1375'; Set 100' C1A Cement Plug @ 1375' to 1275' (6 5/8" csg)
7. TOOH w/ tbg @ 1275'; gel hole @ 1275' to 485'.
8. TOOH w/ tbg @ 485'; Set 100' C1A Cement Plug @ 485' to 385' (Salt Sand).
9. TOOH w/ tbg @ 385'; gel hole @ 385' to 200'.
10. TOOH w/ tbg @ 200'; Set 200' C1A Cement Plug @ 200' to 0 (Surface)(FW @ 110').
11. Top off as needed
12. Set Monument to WV-DEP Specifications
13. Reclaim Location & Road to WV-DEP Specifications

  
6/6/13

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Environmental Protection

07/05/2013



WEST VIRGINIA DEPARTMENT OF MINES  
Oil and Gas Section  
PRELIMINARY DATA SHEET NO. 1

File No. .... Well No. T-27.  
THOMPSON GAS Company, of 1108 Kanawha Valley Bldg.,  
Charleston, W. Va., on the C. E. Lewis Farm  
containing 65 acres. Location on the waters of Elk River,  
Pleasant District, in Clay County, West Virginia.

The surface of the above tract is owned in fee by C. E. Lewis  
of 515 Columbia Ave., Charleston, W. Va., address, and the mineral rights are owned by  
C. E. Lewis of 515 Columbia Ave., Charleston, W. Va.

The oil and gas privileges are held under lease by the above named company, and this well is drilled under  
permit No. Clay 72 issued by the West Virginia Department of Mines, Oil and Gas Section,  
November 5th, 190...

Elevation of surface at top of well, 753.34 Spirit

The number of feet of the different sized casings used in the well.

313 feet 10" pulled out size, csg 67 ft. 7" pulled out (liner) size, csg.  
1089 feet 8 1/2" size, csg 5-3/16" size, csg.  
1324 feet 6-5/8" size, csg  
Spang packer of 5-3/16x2"x3ft. size, set at 1469 ft.  
packer of size, set at  
in casing perforated at feet to feet  
in casing perforated at feet to feet

Check

Coal was encountered at No coal feet; thickness inches, and at  
feet; thickness inches; and at feet; thickness inches.

Liners were used as follows: (Give details) Three joints - 67 ft. 7 in. - of 5-3/16"  
casing was run for liner from 1345 ft. to 1412 ft. through Pencil Cave.

February 26, 1931 Date THOMPSON GAS COMPANY,

Approved [Signature] Owner.  
By J. L. [Signature] Gen'l Supt.

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JUN 10 2013



WV Department of  
Environmental Protection

6244-72

Well No. T-27.

Thompson Gas Company

1108 Kanawha Valley Bldg., Address

Charleston, W. Va.

COMPLETION DATA SHEET NO. 2 FORMATION RECORD

Name	Color	Character	Oil, Gas or Water	Top	Bottom	Thickness	Total Depth	Remarks
Soil & soft Sand			Water at:	0	75	75		
Slate & Shells			110 ft.	75	168	93		
Sand				168	190	22		
Slate & Shells				190	310	120		
Lime				310	340	30		
Slate & shells				340	456	116		
Lime				456	485	19		
Salt Sand			545 ft.	485	1045	560		
Slate			747 "	1045	1092	47		
Salt Sand			775 "	1092	1156	64		
Red Rock				1156	1190	34		
Slate and Shells				1190	1320	130		
Little Lime				1320	1350	30		
Hard Sand				1350	1377	27		
Pencil Cave			Gas at:	1377	1382	5		
Big Lime				1382	1500	118		
Big Injun			1524 ft.	1500	1544	44		
Red Rock			1540 "	1544	1550	6		
Gritty Lime				1550	1569	19		
							1569	

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JUN 10 2013

WV Department of Environmental Protection

Well was shot ~~at~~ 1501-1543 feet; well was shot at \_\_\_\_\_ feet.

Producing gas ~~water~~ at 110 feet; ~~water~~ water at 545, 747 and 775 feet.

Well was producing gas ~~water~~ ~~at~~

February 26, 1931 Date

Approved

THOMPSON GAS COMPANY,

J. L. Shepard

Gen'l Supt.

NOTE: All bottom formations must be noted as indicated above and all key-rocks and oil and gas sands must be recorded under their proper geological names in the district as well as any local names commonly used in the district for such strata.





WW-4-A  
Revised 6/07

- 1) Date: May 29, 2013
- 2) Operator's Well Number  
412851 Lewis, C.E. "T" #27
- 3) API Well No.: 47 015 - 00072  
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 Jerry W. Quinn ✓  
Address 179 Little Beechy Road  
Prociuous WV 25164

(b) Name \_\_\_\_\_  
Address \_\_\_\_\_

(c) Name \_\_\_\_\_  
Address \_\_\_\_\_

6) Inspector Ed Gainer ✓  
Address P.O. Box 821  
Spencer, WV 25276  
Telephone \_\_\_\_\_

5) (a) Coal Operator:  
Name None  
Address \_\_\_\_\_

(b) Coal Owner(s) with Declaration  
Name Marian B. Chenoweth ✓  
123 Park Ave.  
Address Charleston, WV 25302-2448

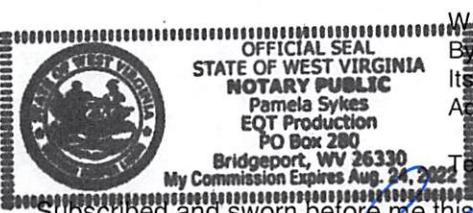
Name See Attached ✓  
Address \_\_\_\_\_

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

Subscribed and sworn before me this 29 day of May, 2013  
Pamela Sykes Notary Public  
My Commission Expires: 8-24-22

Received

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).

WW2-A

**Additional Coal Owners:**

✓ H.C. Lewis Oil Company  
H.C. Lewis, Jr. Pres.  
201 US Rt. 52 N.  
Welch, WV 24801-2554

✓ Rebecca A. Kilpatrick  
857 Somerset Dr.  
Charleston, WV 25302-2737

✓ Timothy H. Lewis  
2603 Beechmar Dr.  
Cincinnati, OH 45230-1206

✓ Shirley R. Baird  
P.O. Box 11  
Clay, WV 25043-0011

Received

JUN 5 2013

Office of Oil and Gas  
WV Dept. of Environmental Protection

07/05/2013



**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: Beechy Creek of Elk River Quadrangle: Elkhurst 7.5'  
Elevation: 757' County: Clay District: Pleasant

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:  
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 29 day of May, 2013

My Commission Expires 8-24-22

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JUN 5 2013



07/05/2013

OPERATOR'S WELL NO.:  
412851 Lewis, C.E. "T" #27

### LEGEND

Property Boundary		Diversion	
Road		Spring	
Planned Fence		Drain Pipe with size in inches	
Existing Fence		Stream	
Open Ditch		Artificial Filter Strip	
North		Building	
		Water well	
Pit with Cut Walls		Pit with Compacted Walls	
		Area of Land Application of Pit Waste	

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:

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

**JUN 10 2013**

**WV Department of  
Environmental Protection**

Title: Inspector Date: 6/6/13

Field Reviewed? Yes  No



1500672 P

Topo Quad: Elkhurst 7.5'

Scale: 1" = 2000'

County: Clay

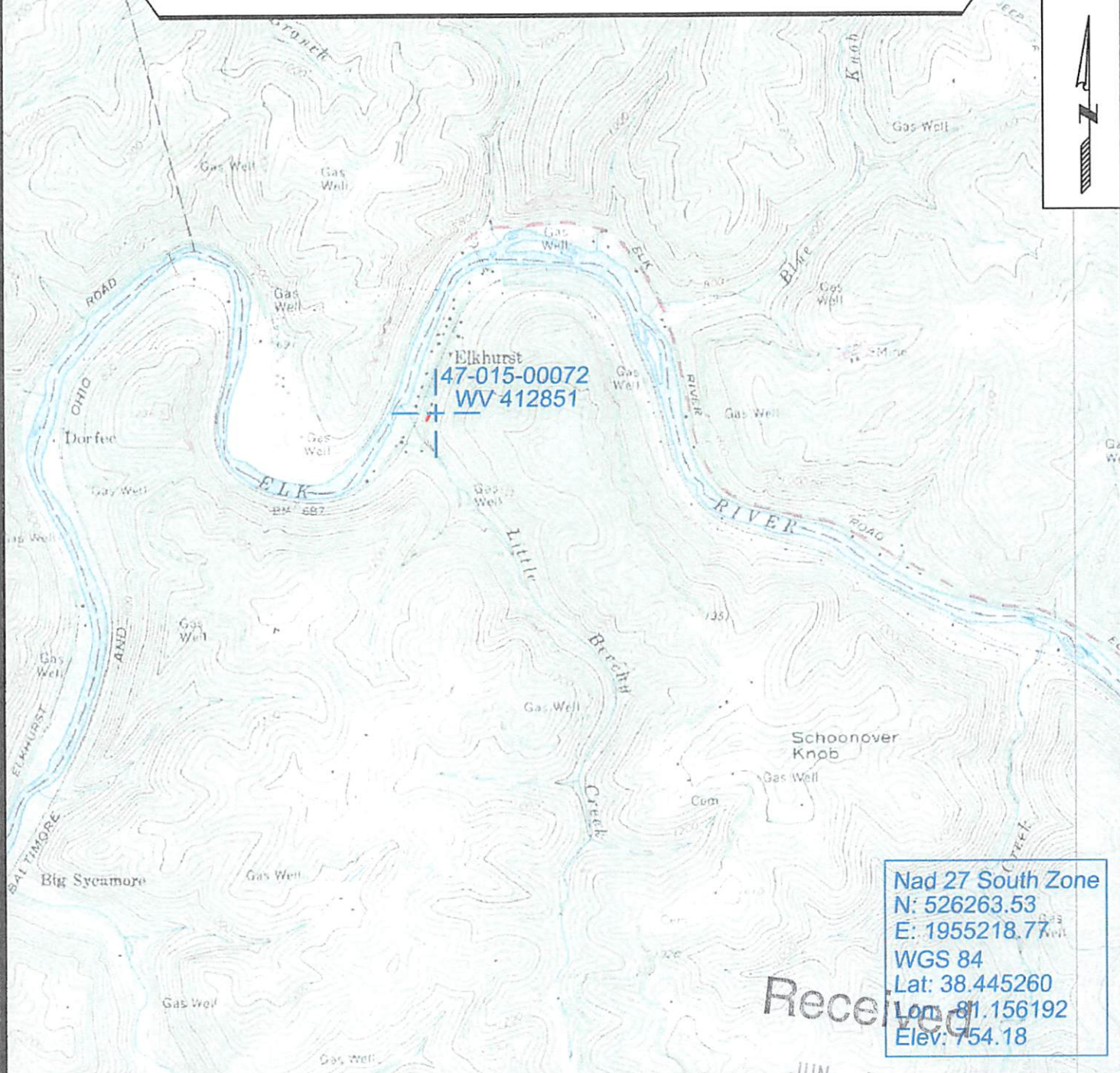
Date: May 17, 2013

District: Pleasant

Project No: 53-05-00-07

47-015-00072 (WV 412851) Lewis T-27

Topo



Nad 27 South Zone  
 N: 526263.53  
 E: 1955218.77  
 WGS 84  
 Lat: 38.445260  
 Lon: 81.156192  
 Elev: 754.18

Received  
 JUN 5 2013



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, INC.**  
 Office of Oil and Gas  
 WV Dept. of Environmental Protection  
 P.O. Box 2800  
 Bridgeport, WV 26330

07/05/2013





1500072P

Topo Quad: Elkhurst 7.5'

Scale: 1" = 2000'

County: Clay

Date: May 17, 2013

District: Pleasant

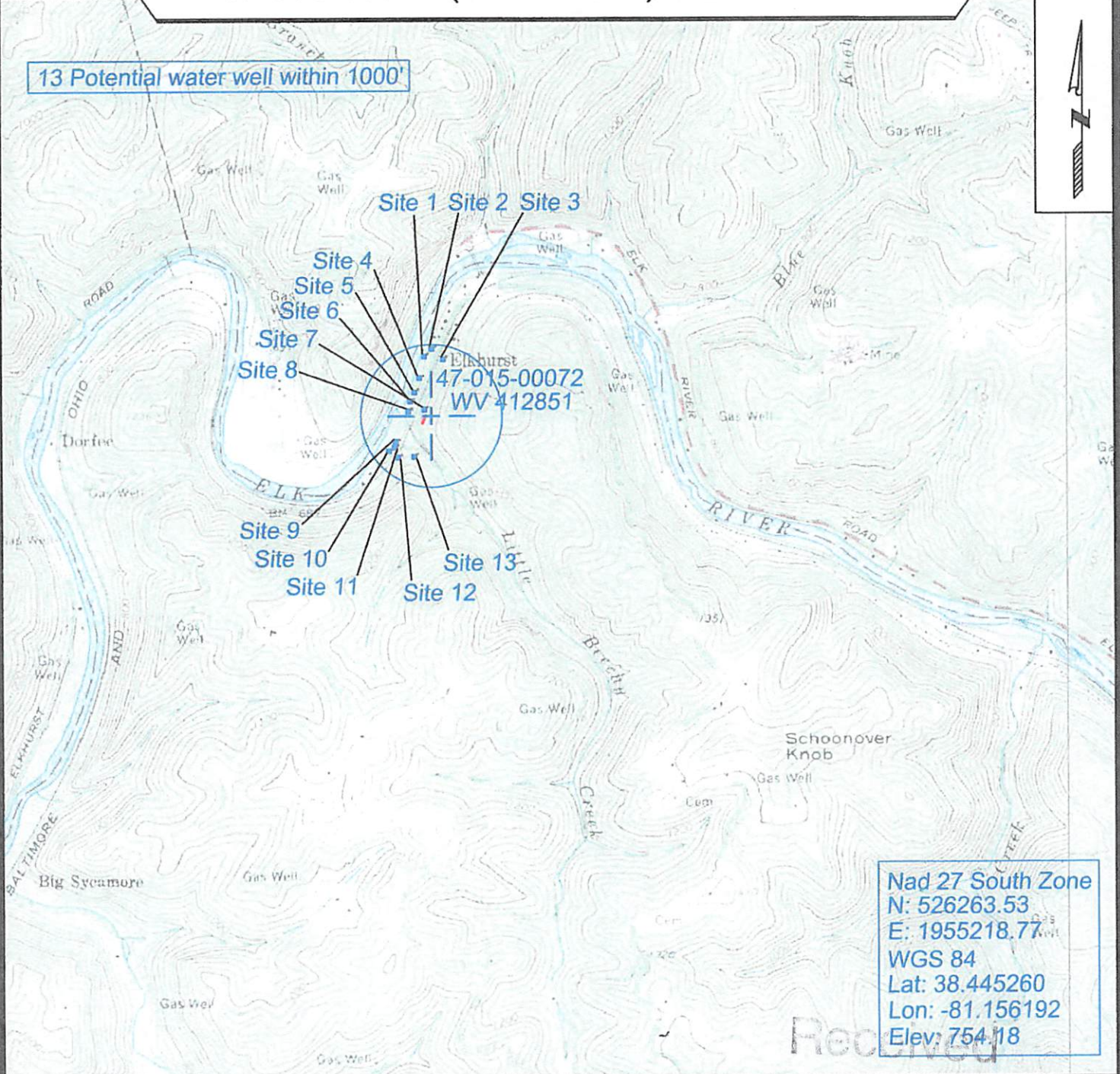
Project No: 53-05-00-07

Water

47-015-00072 (WV 412851) Lewis T-27

Topo

13 Potential water well within 1000'



Nad 27 South Zone  
 N: 526263.53  
 E: 1955218.77  
 WGS 84  
 Lat: 38.445260  
 Lon: -81.156192  
 Elev: 754.18



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 FAX: (304) 649-8608

PREPARED FOR:  
**EQT PRODUCTION COMPANY, INC.**  
 JUN 5 2013  
 Office P.O. Box 280, Gas  
 WV Dept. of Bridgeport, WV 26330  
 Environmental Protection

07/05/2013



MUWV FAX-A-LOCATE SYSTEM INPUT FORM

WV 412851

1500072A

*Attention: Use of this system is a privilege limited to registered users adhering to the following guidelines:*

- (1) Use limited to routine requests (48 hr. advance notification, excluding weekends and holidays). All other locate requests must be called in to 800-245-4848
- (2) Users must allow an additional 2 hours processing time for a total of 50 hours minimum lead-time.
- (3) Forms other than this one will not be accepted
- (4) Forms with insufficient or vague information will be returned for correction
- (5) Failure of any user to follow these guidelines can result in the loss of this privilege

FAX COMPLETED FORM TO (800) 217-3720

PLEASE TYPE OR PRINT LEGIBLY

CALLER \_\_\_\_\_ TELEPHONE # \_\_\_\_\_

FAX# \_\_\_\_\_ COMPANY NAME EQT PRODUCTION COMPANY, INC.

CO ADDRESS \_\_\_\_\_ CITY \_\_\_\_\_

WORKDATE \_\_\_\_\_ START TIME \_\_\_\_\_

COUNTY Clay TOWN \_\_\_\_\_

WORKING WITHIN CORPORATE LIMITS OF TOWN? YES \_\_\_ or NO X

WORK SITE ADDRESS SEE REMARKS

NEAREST INTERSECTING ST County Route 22 and County Route 22/1

*WHEN PHYSICAL ADDRESS PROVIDED; IS EXCAVATION DIRECTLY AT ABOVE ADDRESS?  
YES \_\_\_ or NO \_\_\_ If no; excavation length beyond work site address \_\_\_\_\_ (Ft, Yds, Mi) and  
direction \_\_\_\_\_ (N,S,E,W)*

*When only intersection provided as work site location (no address #) Must answer the questions below:*

- A. LOCATE TO BEGIN OR INCLUDE INTERSECTION? YES \_\_\_ or NO X  
Total Excavation Length To and Including Intersection \_\_\_\_\_ (Ft, Yds, Mi) direction \_\_\_\_\_ (N,S,E,W)
- B. LOCATE TO BEGIN A DISTANCE FROM AN INTERSECTION? YES X or NO \_\_\_  
If YES, How far 0.56 (Ft, Yds, Mi) in what direction SOUTH (N,S,E,W)
- C. WILL EXCAVATION LENGTH CONTINUE BEYOND THIS POINT? YES Y or NO \_\_\_  
If YES, How far 147 FEET (Ft, Yds, Mi) in what direction NORTH (N,S,E,W)

LATITUDE AND LONGITUDE GRIDS (GPS/GRID ID#) SEE EXHIBIT B

EXCAVATION DEPTH VARIES AREA MARKED IN WHITE? YES BLASTING? UNKNOWN

TYPE OF WORK \_\_\_\_\_

LOCATE: ST \_\_\_ SIDEWALK \_\_\_ PRIV PROP X FRONT \_\_\_ REAR \_\_\_ SIDES \_\_\_  
OTHER \_\_\_\_\_

WORKING FOR \_\_\_\_\_ CONTACT PERSON \_\_\_\_\_

CONTACT PHONE # \_\_\_\_\_ ALT PHONE # \_\_\_\_\_

ALT CONTACT PERSON \_\_\_\_\_ ALT PHONE # \_\_\_\_\_

ADDITIONAL REMARKS SEE EXHIBIT A & B

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*Excavators are advised that there may be other underground facilities at their work area that are owned or operated by parties that are not members of MUWV and who must be contacted directly by the excavator.*

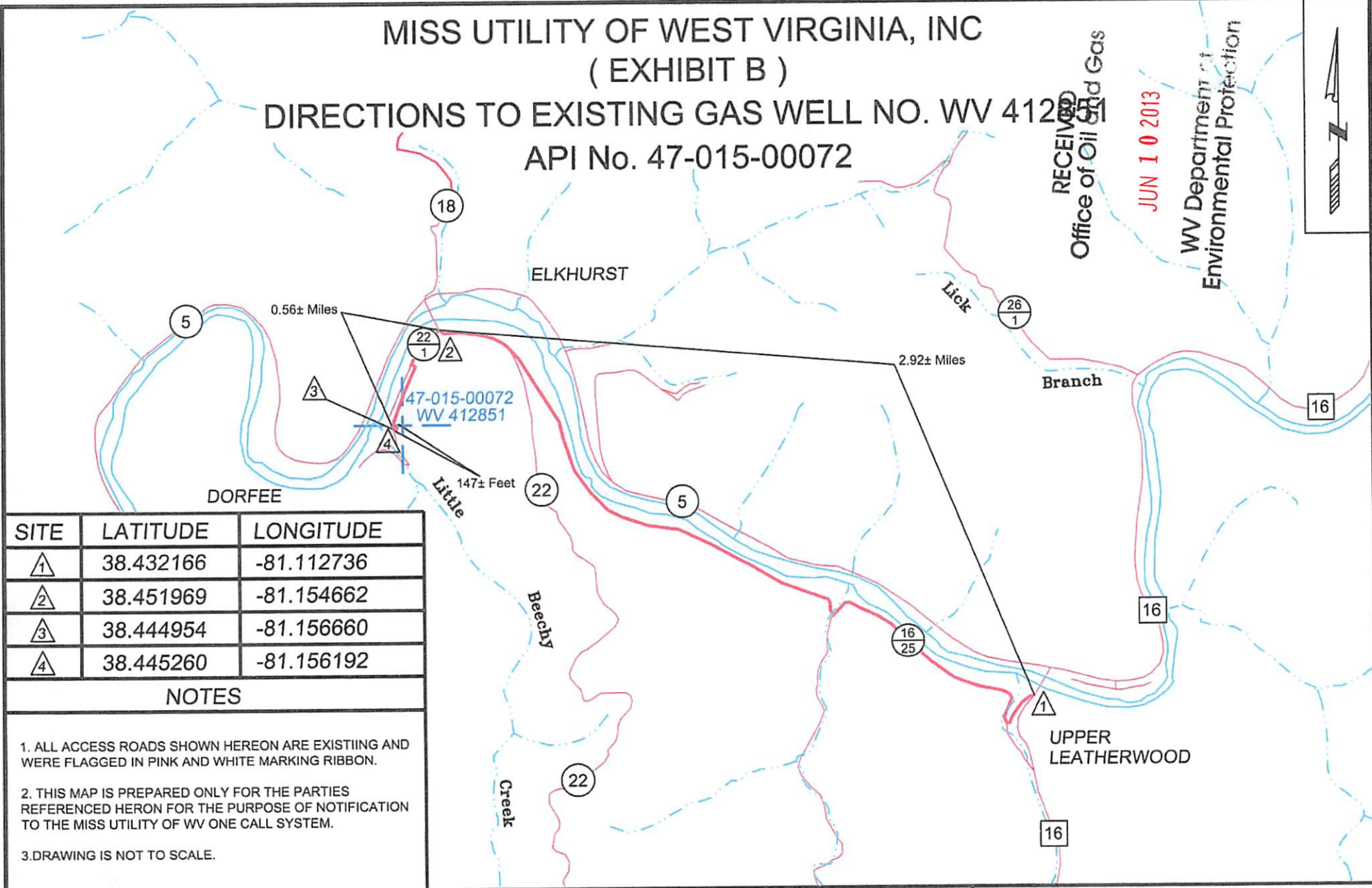
07/05/2013



1500072.P

**MISS UTILITY OF WEST VIRGINIA, INC  
( EXHIBIT B )  
DIRECTIONS TO EXISTING GAS WELL NO. WV 412851  
API No. 47-015-00072**

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**JUN 10 2013**  
WV Department of  
Environmental Protection



SITE	LATITUDE	LONGITUDE
①	38.432166	-81.112736
②	38.451969	-81.154662
③	38.444954	-81.156660
④	38.445260	-81.156192

**NOTES**

1. ALL ACCESS ROADS SHOWN HEREON ARE EXISTING AND WERE FLAGGED IN PINK AND WHITE MARKING RIBBON.
2. THIS MAP IS PREPARED ONLY FOR THE PARTIES REFERENCED HERON FOR THE PURPOSE OF NOTIFICATION TO THE MISS UTILITY OF WV ONE CALL SYSTEM.
3. DRAWING IS NOT TO SCALE.



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BIRCH RIVER, WV 26610  
PH: (304) 649-8606  
FAX: (304) 649-8608

County:	Clay
District:	Pleasant
Date:	May 17, 2013
Project No:	53-05-00-07
FILE No:	53-07 WV 412851 MU B

PREPARED FOR:  
**EQT PRODUCTION COMPANY, INC.**  
P.O. Box 280  
Bridgeport, WV 26330